

ADDITIONAL CONTRACT PROVISIONS

SUPPLEMENT TO THE WEEKLY CERTIFIED PAYROLLS

In addition to the required payroll data as enumerated in Section V, Part 2 of the Form FHWA-1273, "Required Contract Provisions, Federal-Aid Construction Contracts (Exclusive of Appalachian Contracts)", to facilitate monitoring of the Affirmative Action goals for each contract, employers are required to list, for their employees, a designation of race, ethnicity, color or national origin and Male/Female identifier on each weekly certified payroll.

For standardization please use the following identification codes:

- i. White/Caucasian: Persons having origins in Europe, North Africa or the Middle East.
- ii. Black/African American (except Hispanic): Persons having origins in any of the Black racial groups of Africa.
- iii. Native American – American Indian or Alaskan Native: Persons having origins in any of the original peoples of North America and who maintain their culture through a tribe or community.
- iv. Hawaiian or other Pacific Islander: Persons having origins in the original peoples of Hawaii or other Pacific Islands.
- v. Asian: Persons having origins in any of the peoples of the Far East, Southeast Asia, or India.
- vi. Hispanic Americans: Persons of Mexican, Puerto Rican, Cuban, Central or South American origin, or other Spanish culture or origin, regardless of race.
- vii. Two or More Races: Persons who identify with two or more designations listed above, or other persons protected from employment discrimination by EEO law, based on race, ethnicity, color or national origin, not otherwise defined.
- viii. Not Specified: Only for persons who choose not to list their race, ethnicity, color, or national origin.

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION
CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246)

1. As used in these specifications:
 - a. "Covered Area" means the geographical area described in the "Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity (Executive Order 11246)", of these special provisions.
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - d. "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (ii) Hispanic (all persons of Spanish or Portuguese ancestry whose culture is rooted in South America, Central America, Mexico, Puerto Rico, Cuba, the Caribbean Islands or the Iberian Peninsula, including Portugal, regardless of race);
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North American and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U. S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or subcontractors toward a goal in an approved Plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation

from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered Construction contractors performing construction work in geographical areas where they do not have a Federal or federally assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the FEDERAL REGISTER in notice form, and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The Contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period, and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U. S. Department of Labor.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organization's responses.
 - c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefore, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the

Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the Department of Labor. The Contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.
- h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the contractor's EEO policy with other contractors and subcontractors with whom the Contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's work force.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
- l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory affect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 - n. Ensure that all facilities and company activities are non- segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
 - o. Document and maintain a record of all solicitations of offers for subcontracts from minority and female construction contractors and suppliers, including circulation of solicitations to minority and female contractor associations and other business associations.
 - p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations (7a through p). The efforts of a Contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the contractor. The obligation to comply, however, is the contractor's and failure of such a group to fulfill an obligation shall not be a defense for the contractor's non-compliance.
9. A single goal for minorities and a separate single goal for women have been established. The contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the contractor has achieved its goals for women generally, the contractor may be in violation of the Executive Order if a specific minority group of women is underutilized).
10. The contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The contractor shall not enter into any subcontract with any person or firm debarred from Government contracts pursuant to Executive Order 11246.
12. The contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the contractor fails to comply with the requirements of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws which establish different standards of compliance or upon the application of requirement for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).
16. All such records must be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives of the State Department of Transportation and the Federal Highway Administration.
17. FHWA 1409 (Federal-Aid Highway Construction Contractors Semiannual report).

(INSTRUCTIONS: This report is to be completed by the Contractor semiannually for each individual employed on this contract (including any subcontracts under it) who has received training during the reporting period under the training special provisions (Attachment 2 FHPM 6-4-1.2). The report is to be submitted by the 20th of the month following the reporting period (July 20 and January 20). The original of this report is to be furnished to the trainee and two copies submitted to the Nevada Department of Transportation.)
18. Required Reports: Form PR-1391 (Federal-Aid Highway Construction Contractors Annual EEO Reports).

This report should be submitted to the Nevada Department of Transportation by each Contractor and covered subcontractor for the month of July. Subcontractors should report contract and employment data pertaining to their subcontract work only. The staffing figures to be reported under employment data should represent the project work force on board in whole or in part for the last payroll period preceding the end of the month.

The staffing figures to be reported in Table A should include journey-level men and women, apprentices, and on-the-job trainees. Staffing figures to be reported in Tables B and C should only include apprentices and on-the-job trainees as indicated.

Additional Contract Provisions

Appendix A & E of Department of Transportation 1050.2A

Appendix A of Department of Transportation Order 1050.2A

"During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees as follows:

1. Compliance with Regulations: The contractor (hereinafter includes consultants) will comply with the Acts and the Regulations relative to Non-discrimination in Federally-assisted programs of the U.S. Department of Transportation, Federal Highway Administration (FHWA), as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

2. Non-discrimination: The contractor, with regard to the work performed by it during the contract, will not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The contractor will not participate directly or indirectly in the discrimination prohibited by the Acts and the Regulations, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 C.F.R. Part 21.

3. Solicitations for Subcontracts, Including Procurements of Materials and Equipment: In all solicitations, either by competitive bidding, or negotiation made by the contractor for work to be performed under a subcontract, including procurements of materials, or leases of equipment, each potential subcontractor or supplier will be notified by the contractor of the contractor's obligations under this contract and the Acts and the Regulations relative to Non-discrimination on the grounds of race, color, or national origin.

4. Information and Reports: The contractor will provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the Recipient or the FHWA to be pertinent to ascertain compliance with such Acts, Regulations, and instructions. Where any information required of a contractor is in the exclusive possession of another who fails or refuses to furnish the information, the contractor will so certify to the Recipient or the FHWA, as appropriate, and will set forth what efforts it has made to obtain the information.

5. Sanctions for Noncompliance: In the event of a contractor's noncompliance with the Non-discrimination provisions of this contract, the Recipient will impose such contract sanctions as it or the FHWA may determine to be appropriate, including, but not limited to:

- a. withholding payments to the contractor under the contract until the contractor complies; and/or
- b. cancelling, terminating, or suspending a contract, in whole or in part.

6. Incorporation of Provisions: The contractor will include the provisions of paragraphs one through six in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations and directives issued pursuant thereto. The contractor will take action with respect to any subcontract or procurement as the Recipient or the FHWA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, that if the contractor becomes involved in, or is threatened with litigation by a subcontractor, or supplier because of such direction, the contractor may request the Recipient to enter into any litigation to protect the interests of the Recipient. In addition, the contractor may request the United States to enter into the litigation to protect the interests of the United States."

Appendix E of Department of Transportation Order 1050.2A

“During the performance of this contract, the contractor, for itself, its assignees, and successors in interest (hereinafter referred to as the "contractor") agrees to comply with the following non-discrimination statutes and authorities; including but not limited to:

Pertinent Non-Discrimination Authorities:

- Title VI of the Civil Rights Act of 1964 (42 U.S.C. § 2000d et seq., 78 stat. 252), (prohibits discrimination on the basis of race, color, national origin); and 49 C.F.R. Part 21.
- The Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, (42 U.S.C. § 4601), (prohibits unfair treatment of persons displaced or whose property has been acquired because of Federal or Federal-aid programs and projects);
- Federal-Aid Highway Act of 1973, (23 U.S.C. § 324 et seq.), (prohibits discrimination on the basis of sex);
- Section 504 of the Rehabilitation Act of 1973, (29 U.S.C. § 794 et seq.), as amended, (prohibits discrimination on the basis of disability); and 49 C.F.R. Part 27;
- The Age Discrimination Act of 1975, as amended, (42 U.S.C. § 6101 et seq.), (prohibits discrimination on the basis of age);
- Airport and Airway Improvement Act of 1982, (49 U.S.C. § 471, Section 47123), as amended, (prohibits discrimination based on race, creed, color, national origin, or sex);
- The Civil Rights Restoration Act of 1987, (PL 100-209), (Broadened the scope, coverage and applicability of Title VI of the Civil Rights Act of 1964, The Age Discrimination Act of 1975 and Section 504 of the Rehabilitation Act of 1973, by expanding the definition of the terms "programs or activities" to include all of the programs or activities of the Federal-aid recipients, sub-recipients and contractors, whether such programs or activities are Federally funded or not);
- Titles II and III of the Americans with Disabilities Act, which prohibit discrimination on the basis of disability in the operation of public entities, public and private transportation systems, places of public accommodation, and certain testing entities (42 U.S.C. §§ 12131 – 12189) as implemented by Department of Transportation regulations at 49 C.F.R. Parts 37 and 38;
- The Federal Aviation Administration's Non-discrimination statute (49 U.S.C. § 47123) (prohibits discrimination on the basis of race, color, national origin, and sex);
- Executive Order 12898, Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations, which ensures nondiscrimination against minority populations by discouraging programs, policies, and activities with disproportionately high and adverse human health or environmental effects on minority and low-income populations;
- Executive Order 13166, Improving Access to Services for Persons with Limited English Proficiency, and resulting agency guidance, national origin discrimination includes discrimination because of limited English proficiency (LEP). To ensure compliance with Title VI, you must take reasonable steps to ensure that LEP persons have meaningful access to your programs (70 Fed. Reg. at 74087 to 74100);
- Title IX of the Education Amendments of 1972, as amended, which prohibits you from discriminating because of sex in education programs or activities (20 U.S.C. § 1681 et seq.)”

**CDBG-Supplemental Conditions
1,2,3,7,8 & 9**

Nevada Governor's Office of
ECONOMIC DEVELOPMENT
COMMUNITY DEVELOPMENT BLOCK GRANT

Supplemental Condition #1

EQUAL OPPORTUNITY CLAUSE FOR CONTRACTS UNDER \$10,000

Note: This clause must be included in all contracts and subcontracts \$10,000 and under.

During the performance of this contract, the Contractor agrees as follows:

- (1) The Contractor shall not discriminate against any employee or applicant for employment because of the race, color, religion, sex, or national origin. The Contractor shall take affirmative action to ensure that applicants for employment are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following:

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.

- (2) The Contractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by Contracting Officer setting forth the provisions of this nondiscrimination clause. The Contractor shall state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
- (3) Contractors shall incorporate foregoing requirements in all subcontracts.

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Supplemental Condition #2

EQUAL OPPORTUNITY CLAUSE FOR CONSTRUCTION OVER \$10,000

Note: This clause must be included in all construction contracts and subcontracts \$10,000 and over.

During the performance of this contract, the Contractor agrees as follows:

- (1) The Contractor shall not discriminate against any employee or applicant for employment because of the race, color, religion, sex, or national origin. The Contractor shall take affirmative action to ensure that applicants for employment are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to, the following:

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.
- (2) The Contractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by Contracting Officer setting forth the provisions of this nondiscrimination clause. The Contractor shall state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
- (3) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the contractor's commitments under this section, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.
- (4) The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.
- (5) The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

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- (6) In the event of the contractor's noncompliance with the discrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the contractor may be declared ineligible for further government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions as may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
- (7) The contractor will include the portion of the sentence immediately preceding paragraph (1) and the provisions of paragraphs (1) through (7) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 504 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance: Provided, however, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States.

The applicant further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work: Provided, that if the applicant so participating is a State or local government, the above equal opportunity clause is not applicable to any agency, instrumentality, or subdivision of such government which does not participate in work on or under the contract.

The applicant agrees that it will assist and cooperate actively with the administering agency and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor, that it will furnish the administering agency and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the administering agency in the discharge of the agency's primary responsibility for securing compliance.

The applicant further agrees that it will refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from, or who has not demonstrated eligibility for, government contracts and federally assisted construction contracts pursuant to the Executive Order and will carry out such sanctions and penalties for violation

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of the equal opportunity clause as may be imposed upon contractors and subcontractors by the administering agency or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order. In addition, the applicant agrees that if it fails or refuses to comply with these undertakings, the administering agency may take any or all of the following actions: Cancel, terminate, or suspend in whole or in part this grant (contract, loan, insurance, guarantee); refrain from extending any further assistance to the applicant under the program with respect to which the failure or refund occurred until satisfactory assurance of future compliance has been received from such applicant; and refer the case to the Department of Justice for appropriate legal proceedings.

(33F.R. 7804, May 28, 1968, as amended at 34 FR 744, Jan. 17, 1969; 40 FR 14083, Mar. 28, 1975)

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Supplemental General Condition #3

**STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT
SPECIFICATIONS
(CONSTRUCTION OVER \$10,000)**

1. As used in these specifications:
 - a. "Covered area" means the geographical area described in the solicitation from which this contract resulted.
 - b. "Director" means Director, Office of Federal Contract Compliance Programs, United States Department of Labor, or any person to whom the Director delegates authority;
 - c. "Employer identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - d. "Minority" includes:
 - (i) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin.
 - (ii) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish Culture or origin, regardless of race.
 - (iii) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian subcontinent or the Pacific Islands).
 - (iv) American Indian or Alaskan Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any Subcontractor at any tier subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the U.S. Department of Labor in the covered area either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades which have unions participating in the Plan. Contractors must be able to demonstrate

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their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or Subcontractor participating in an approved plan is individually required to comply with its obligations under the EEO clause, and to make a good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other contractors or subcontractors toward a goal in an approved Plan does not excuse any covered contractor's or subcontractor's failure to take good faith efforts to achieve the Plan goals and timetables.

4. The contractor shall implement the specific affirmative action standards provided in paragraphs 7a through p of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. Covered construction contractors performing construction work in geographical areas where they do not have a Federal or federally-assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form and such notices may be obtained from any Office of Federal Contract Compliance Programs office or from Federal procurement contracting officers. The contractor is expected to make substantially uniform progress in meeting its goals in each craft during the period specified.
5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the non working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the contractor during the training period, and the contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities. Trainees must be trained pursuant to training programs approved by the U.S. Department of Labor.
7. The contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The contractor shall document these efforts fully and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the contractor's employees are assigned to work. The contractor, where possible, will assign two or more women to each construction project. The contractor shall specifically ensure that all foremen,

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superintendents, and other on-site supervisory personnel are aware of and carry out the contractor's obligation to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

- b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
- c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the contractor by the union or, if referred, not employed by the contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the contractor may have taken.
- d. Provide immediate written notification to the Director when the union or unions with which the contractor has a collective bargaining agreement has not referred to the contractor a minority person or woman sent by the contractor or when the contractor has other information that the union referral process has impeded the contractor's efforts to meet its obligation.
- e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the contractor's employment needs, especially those programs funded or approved by the Department of Labor. The contractor shall provide notice of these programs to the sources compiled under 7b above.
- f. Disseminate the contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.
- g. Review at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions, including specific review of these items with on-site supervisory personnel such as

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Superintendents, General Foremen, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and disposition of the subject matter.

- h. Disseminate the contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the contractor's EEO policy with other contractors and subcontractors with whom the contractor does or anticipates doing business.
- i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
- j. Encourage present minority and female employees to recruit other minority persons and women and where reasonable, provide after school summer and vacation employment to minority and female youth both on the site and in other areas of a contractor's workforce.
- k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60.3.
- l. Conduct at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
- m. Ensure that seniority practices, job classifications, work assignments and other personnel practices, do not have a discriminatory effect by continually monitoring all personnel and employment-related activities to ensure that the EEO policy and the contractor's obligations under these specifications are being carried out.
- n. Ensure that all facilities and company activities are non-segregated except that separate or single-user toilet and necessary changing facilities shall be provided to assure privacy between the sexes.
- o. Document and maintain a record of all solicitations of offers for subcontractors from minority and female construction contractors and suppliers, including circulation of

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solicitations to minority and female contractor associations and other business associations.

8. Contractors are encouraged to participate in voluntary associations, which assist in fulfilling one or more, or their affirmative action obligations (7a through p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the contractor is a member and participant, may be asserted as fulfilling any one or more of its obligations under 7a through p of these Specifications provided that the contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the contractor's minority and female workforce participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the contractor. The obligation to comply, however, is the contractor's and failure of such a group to fulfill an obligation shall not be a defense for the contractor's noncompliance.
9. A single goal for minorities and a separate single goal for women have been established. The contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the contractor has achieved its goals for women generally, the contractor may be in violation of the Executive Order if a specific minority group of women is under utilized).
10. The contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex or national origin.
11. The contractor shall not enter into any subcontract with any person or firm debarred from government contracts pursuant to Executive Order 11246.
12. The contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended and its implementing regulations, by the Office of Federal Contract Compliance Programs. Any contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The contractor, in fulfilling its obligations under these specifications shall implement affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunity. If the contractor fails to comply with the requirements

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of the Executive Order, the implementing regulations, or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g. mechanic, apprentice, trainee, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that existing records satisfy this requirement, contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws, which establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g. those under the Public Works Employment Act of 1977 and the Community Development Block Grant Program).

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Supplemental Condition #7

CERTIFICATION OF COMPLIANCE WITH AIR AND WATER ACTS

(Applicable to Federally assisted construction contracts and related subcontracts exceeding \$100,000)

Compliance with Air and Water Acts

During the performance of this Contract, the Contractor and all subcontractors shall comply with the requirements of the Clean Air Act, as amended, 42 USC 1857 et seq., the Federal Water Pollution Control Act, as amended, 33 USC 1251 et seq., and the regulations of the Environmental Protection Agency with respect thereto, at 40 CFR Part 15, as amended. In addition to the foregoing requirements, all nonexempt contractors and subcontractors shall furnish to the owner, the following:

- (1) A stipulation by the Contractor or subcontractors, that any facility to be utilized in the performance of any nonexempt contract or subcontract, is not listed on the List of Violating Facilities issued by the Environmental Protection Agency (EPA) pursuant to 40 CFR 15.20.
- (2) Agreement by the Contractor to comply with all the requirements of Section 114 of the Clean Air Act, as amended, (42 USC 1857c-8) and Section 308 of the Federal Water Pollution Control Act, as amended, (33 USC 1318) relating to inspection, monitoring, entry, reports and information, as well as all other requirements specified in said Section 114 and Section 308, and all regulations and guidelines issued thereunder.
- (3) A stipulation that as a condition for the award of the contract, prompt notice will be given of any notification received from the Director, Office of Federal Activities, EPA, indicating that a facility utilized, or to be utilized for the contract is under consideration to be listed under the EPA List of Violating Facilities.
- (4) Agreement by the Contractor that he will include, or cause to be included, the criteria and requirements in paragraph (1) through (4) of this section in every nonexempt subcontract and requiring that the Contractor will take such action as the Government may direct as a means of enforcing such provisions.

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Supplemental Condition #8

**SPECIAL CONDITIONS PERTAINING TO HAZARDS
SAFETY STANDARDS AND ACCIDENT PREVENTION****A. Lead-Based Paint Hazards**

(Applicable to contracts or rehabilitation of residential structures)

The construction or rehabilitation of residential structures is subject to the HUD Lead-Based paint regulations, 24 CFR Part 35. The Contractor and Subcontractors shall comply with the provisions for the elimination of lead base paint hazards under sub-part B of said regulations. The Owner will be responsible for the inspections and certifications required under Section 35.14 (f) thereof.

B. Use of Explosives

When the use of explosives is necessary for the prosecution of the work, the Contractor shall observe all local, state and Federal laws in purchasing and handling explosives. The Contractor shall take all necessary precautions to protect completed work neighboring property, water lines, or other underground structures. Where there is danger to structures or property from blasting, the charges shall be reduced and the material shall be covered with suitable timber, steel or rope mats.

The Contractor shall notify all owners of public utility property of intention to use explosives close to such property, at least 8 hours before blasting is done. Any supervision or direction of use of explosives by the engineer does not in any way reduce the responsibility of the Contractor or his Surety for damages that may be caused by such use.

C. Danger Signals and Safety Devices

The Contractor shall make all necessary precautions to guard against damages to property and injury to persons. He shall put up and maintain in good condition, sufficient red or warning lights at night suitable barricades and other devices necessary to protect the public. In case the Contractor fails or neglects to take such precautions, the Owner may have such lights and barricades installed and charge the cost of this work to the Contractor. Such action by the Owner does not relieve the Contractor of any liability incurred under these specifications or contract.

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Supplemental Condition #9

UNFAIR TRADE PRACTICES

Grantees or sub grantee recipients entering into contracts public construction, alteration, or repair of any public building or public works project subject to the prohibitions described in this Notice shall include the following provisions in all such contracts:

Restrictions on Public Buildings and Public Works Projects

(a) Definitions. "Component," as used in this clause, means those articles, materials, and supplies incorporated directly into the product.

"Contractor or subcontractor of a foreign country," as used in this clause, means any Contractor or subcontractor that is a citizen or national of a foreign country or is controlled directly or indirectly by citizens or nationals of a foreign country. A contractor or subcontractor shall be considered to be a citizen or national of a foreign country, or controlled directly or indirectly by citizens or nationals of a foreign country –

(1) If 50 percent or more of the Contractor or subcontractor is owned by a citizen or a national of the foreign country;

(2) If the title to 50 percent or more of the stock of the Contractor or subcontractor is held subject to trust or fiduciary obligation in favor of citizens or nationals of the foreign country;

(3) If 50 percent or more of the voting power in the Contractor or subcontractor is vested in or exercisable on behalf of a citizen or national of the foreign country;

(4) In the case of a partnership, if any general partner is a citizen of the foreign country;

(5) In the case of a corporation, if its president or other chief executive officer or the chairman of its board of directors is a citizen of the foreign country or the majority of any number of its directors necessary to constitute a quorum are citizens of the foreign country or the corporation is organized under the laws of the foreign country or any subdivision, territory, or possession thereof; or

(6) In the case of a contractor or subcontractor who is a joint venture, if any participant firm is a citizen or national of a foreign country or meets any of the criteria in subparagraphs (a) (1) through (5) of this clause.

"Product", as used in this clause, means construction materials – i.e., articles, materials, and supplies brought to the construction site for incorporation into the public works project, including permanently affixed equipment, instruments, utilities, electronic or other devices, but not including vehicles or construction equipment. In determining the origin of a product, the grantee or sub grantee will consider a product as produced in a foreign country if it has been assembled or manufactured in the foreign country, or if the cost of the components mined, produced, or manufactured in the foreign country exceed 50 percent of the cost of all its components.

(b) Restrictions. The Contractor shall not knowingly enter into any subcontract under this contract with a subcontractor of a foreign country included on the list of

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countries that discriminate against U.S. firms published by the United States Trade Register (USTR) (see paragraph (c) of this clause), or (2) supply any product under this contract of a country included on the list of foreign countries that discriminate against U.S. firms published by the USTR.

(c) USTR List. The USTR published an initial list in the Federal Register on December 30, 1987 (53 FR 49244), which identified one country – Japan. The USTR can add other countries to the list, or remove countries from it, in accordance with section 109 (c) of Pub. L. 100-202.

(d) Certification. The Contractor may rely upon the certification of a prospective subcontractor that it is not a subcontractor of a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR and that products supplied by such subcontractor for use on the Federal public works project under this contract are not products of a foreign country included on the list of foreign countries that discriminate against U.S. firms published by the USTR, unless such Contractor has knowledge that the certification is erroneous.

(e) Subcontracts. The Contractor shall incorporate this clause, modified only for the purpose of properly identifying the parties, in all subcontracts. This paragraph (e) shall also be incorporated in all subcontracts.

Section 3-Provisions

COMMUNITY DEVELOPMENT BLOCK GRANT SECTION 3 PROVISIONS FOR CONTRACTS

PURPOSE

To ensure that employment and other economic opportunities generated by the Community Development Block Grant (CDBG) funds shall, to the greatest extent Feasible, be directed to low- and very low-income persons, particularly those who reside. In government-assisted housing, and to business concerns which provide economic Opportunities to low- and very low-income persons.

APPLICABILITY

The requirements apply to contractors and subcontractors performing work on Section 3 covered project(s) for which the project amount exceeds \$200,000.

DEFINITIONS

Applicant means any entity which makes an application for CDBG funds, and includes but is not limited to, any State, unit of local government, public housing agency, Indian Housing authority, Indian tribe, or other public body, public or private nonprofit Organization, private agency or institution, mortgagor, developer, limited dividend Sponsor, builder, property manager, community housing development organization (CHO), resident management corporation, resident council, or cooperative association.

Contractor means any entity entering into a contract with:

- (1) A recipient to perform work in connection with the expenditure of public housing financial assistance or for work in connection with a Section 3 project; or
- (2) A subrecipient for work in connection with a Section 3 project.

Labor hours means the number of paid hours worked by persons on a Section 3 project or by persons employed with funds that include public housing financial assistance.

Low-income person means a person as defined in Section 3(b)(2) of the 1937 Act.

Material supply contracts means contracts for the purchase of products and materials, including, but not limited to, lumber, drywall, wiring, concrete, pipes, toilets, sinks, carpets, and office supplies.

**COMMUNITY DEVELOPMENT BLOCK GRANT
SECTION 3 PROVISIONS FOR CONTRACTS (continue)**

Professional services means non-construction services that require an advanced degree or professional licensing, including, but not limited to, contracts for legal services, financial consulting, accounting services, environmental assessment, architectural services, and civil engineering services.

Public housing financial assistance means assistance as defined in § 75.3(a)(1).

Public housing project is defined in 24 CFR 905.108.

Recipient means any entity that receives directly from HUD public housing financial assistance or housing and community development assistance that funds Section 3 projects, including, but not limited to, any State, local government, instrumentality, PHA, or other public agency, public or private nonprofit organization.

Section 3 means Section 3 of the Housing and Urban Development Act of 1968, as amended (12 U.S.C. 1701u).

Section 3 business concern means:

- (1) A business concern meeting at least one of the following criteria, documented within the last six-month period:
 - (i) It is at least 51 percent owned and controlled by low- or very low-income persons;
 - (ii) Over 75 percent of the labor hours performed for the business over the prior three-month period are performed by Section 3 workers; or
 - (iii) It is a business at least 51 percent owned and controlled by current public housing residents or residents who currently live in Section 8-assisted housing.
- (2) The status of a Section 3 business concern shall not be negatively affected by a prior arrest or conviction of its owner(s) or employees.
- (3) Nothing in this part shall be construed to require the contracting or subcontracting of a Section 3 business concern. Section 3 business concerns are not exempt from meeting the specifications of the contract.

**COMMUNITY DEVELOPMENT BLOCK GRANT
SECTION 3 PROVISIONS FOR CONTRACTS (continue)**

Section 3 project means a project defined in § 75.3(a)(2).

Section 3 worker means:

(1) Any worker who currently fits or when hired within the past five years fit at least one of the following categories, as documented:

(i) The worker's income for the previous or annualized calendar year is below the income limit established by HUD.

(ii) The worker is employed by a Section 3 business concern.

(iii) The worker is a YouthBuild participant.

(2) The status of a Section 3 worker shall not be negatively affected by a prior arrest or conviction.

(3) Nothing in this part shall be construed to require the employment of someone who meets this definition of a Section 3 worker. Section 3 workers are not exempt from meeting the qualifications of the position to be filled.

Section 8-assisted housing refers to housing receiving project-based rental assistance or tenant-based assistance under Section 8 of the 1937 Act.

Service area or the neighborhood of the project means an area within one mile of the Section 3 project or, if fewer than 5,000 people live within one mile of a Section 3 project, within a circle centered on the Section 3 project that is sufficient to encompass a population of 5,000 people according to the most recent U.S. Census.

Small PHA means a public housing authority that manages or operates fewer than 250 public housing units.

Subcontractor means any entity that has a contract with a contractor to undertake a portion of the contractor's obligation to perform work in connection with the expenditure of public housing financial assistance or for a Section 3 project.

**COMMUNITY DEVELOPMENT BLOCK GRANT
SECTION 3 PROVISIONS FOR CONTRACTS (continue)**

Subrecipient has the meaning provided in the applicable program regulations or in 2 CFR 200.93.

Targeted Section 3 worker has the meanings provided in §§ 75.11, 75.21, or 75.29, and does not exclude an individual that has a prior arrest or conviction.

Very low-income person means the definition for this term set forth in section 3(b)(2) of the 1937 Act.

YouthBuild programs refers to YouthBuild programs receiving assistance under the Workforce Innovation and Opportunity Act (29 U.S.C. 3226).

SECTION 3:

All contractors and subcontractors shall comply with Section 3 requirements set forth at 24 CFR 75 of the federal regulation which states that, to the greatest extent possible, businesses and employers working on HUD-funded projects must make a good faith effort to train and employ low-income individuals living in the local area and also to contract with businesses owned by or that employ Section 3 workers.

Section 3 Clauses

Section 3 Clause

ALL SECTION 3 COVERED CONTRACTS SHALL INCLUDE THE FOLLOWING CLAUSE (REFERRED TO AS THE SECTION 3 CLAUSE):

A. The work to be performed under this contract is subject to the requirements of section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The purpose of Section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by Section 3, shall, to the greatest extent feasible, be directed to low- and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

B. The parties to this contract agree to comply with HUD's regulations in 24 CFR 75, which implement Section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 75 regulations.

C. The contractor agrees to send to each labor organization or representative or workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this Section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the Section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

D. The contractor agrees to include this Section 3 clause in every subcontract subject to compliance with regulations in 24 CFR 75, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this Section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR 75. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR 75.

E. The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR 75 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR 75.

F. Noncompliance with HUD's regulations in 24 CFR 75 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.

G. With respect to work performed in connection with Section 3 covered Indian housing assistance, section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment

shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of Section 3 to the maximum extent feasible, but not in derogation of compliance with section 7(b).

CONTRACTOR'S REQUIREMENTS

- The Prime Contractor must submit a Section 3 plan to the Sub-Recipient outlining Section 3 hiring and employment opportunities.
- The Prime Contractor must notify all sub-contractors of their responsibilities under Section 3
- The Prime Contractor must provide a permeant workforce breakdown of all current employees and identify those Section 3 workers that were hired within the last five years.
- The Prime Contractor must provide an estimated breakdown of potential hires for the awarded project and timeline of anticipated hiring
- The Prime Contractor must refrain from contracting with sub-contractors as to whom they have received notice or have knowledge that the sub-contractors have been found in violation of the regulations in 24 CFR 75.
- Maintain records that document a good faith effort to utilize Section 3 workers and Target Section 3 workers as trainees and employees. (Required of both contractor and subcontractor.) and any other qualitative efforts to comply with Section 3.

Recordkeeping requirements for recipients are found at 24 CFR § 75.31. The contractor is required to maintain documentation to demonstrate compliance with the regulations and is responsible for requiring their subcontractors to maintain or provide any documentation that will assist recipients in demonstrating compliance, including documentation that shows hours worked by Section 3 workers and Targeted Section 3 workers.

Special Conditions

SC.1 SPECIAL CONDITIONS

These Special Conditions amend or supplement the Standard Terms and Conditions and General Conditions of the Contract and add other Special Conditions to the contract document as indicated below and amend or supplement the Technical Specifications. All provisions of the Contract which are not so amended or supplemented remain in full force and effect.

SC.2 AMENDMENTS TO CONTRACT AWARD:**SECTION CA.5 INSURANCE REQUIREMENTS****CA.4.A GENERAL**

Add the following:

The following shall be named as Certificate Holders and shall be named as additionally insured as it pertains to the Work on their respective properties included in this Project, only, and such notation shall appear on the Certificate of Insurance furnished by the successful Bidder's surety company. The Contractor shall furnish copies of said certificates to the City. Should ownership change prior to completion of the project, the Contractor shall provide a revised certificate reflecting the ownership change. The Contractor shall furnish copies of said revised certificates to the City.

The State of Nevada Department of Transportation, its officers, employees and agents (State) shall be listed as an additional insured on the Contractor's liability insurance. The Contractor shall provide the City with State's certificate of insurance. The Contractor shall furnish the State with an Insurance Policy Endorsement and Certificate of Liability and Property Damage Insurance with a single limit of One Million Dollars (\$1,000,000.00) naming the State as an additional insured. The policies shall include a provision requiring a thirty (30) day advance written notice to the State of any modification or cancellation of said policies. The Contractor's insurance provider shall furnish the State with Insurance Policy Endorsements, Declaration Page and Certificates of Insurance, evidencing such insurance prior to commencement of Work, excavation, construction, installation and occupancy of said right-of-way. The cost of this insurance coverage shall be borne entirely by the Contractor. All insurance involving the State shall be with a company having an A.M. Best and Company, Inc. policyholder rating of A-VII or better. This insurance policy shall remain in full force and effect until one year after the Contractor's completion of Work, including but not limited to excavation, construction and installation activities upon the State's right-of-way under this Contract.

Regardless of the coverage provided by any insurance policy, the Contractor shall fully exonerate, indemnify, defend and hold harmless the State of Nevada, its departments, divisions, agencies, officers or employees from and against all claims of actions, and all expenses incidental to the defense of any such claims or actions, based upon or arising out of damage or injury (including death) to persons or property due to any error, negligence, omission or act of the Contractor or any person employed by him, or any others for whose acts the Contractor is legally liable, while Contractor is performing services under this Contract. The sums shall include, in the event of any actions, the amount of the judgment, court costs, expenses of litigation, expert witness fees and reasonable attorney's fees.

SC.3 AMENDMENTS TO GENERAL CONDITIONS:**SECTION 1.0 INTENT, DEFINITIONS, ABBREVIATIONS:****GC 1.3 Governing Order of Bidding and Contract Documents**

Replace entire Section with the following Section:

GC 1.3 GOVERNING ORDER OF BIDDING AND CONTRACT DOCUMENTS

The Bidding and Contract Documents include various divisions, sections, and conditions which are essential parts for the Work to be provided by the successful Bidder. A requirement occurring in one is as binding as though occurring in all. They are intended to be complementary and to describe and provide for a complete Work. In case of discrepancy, the following precedence will govern:

1. Federal Provision: FHWA Form 1273
2. Permits from City Departments and other Agencies as may be required by law
3. Change Orders
4. Contract
5. Addenda
6. Special Conditions
7. Technical Specifications
8. General Conditions
9. Contract Drawings
10. NDOT Standard Plans for Road and Bridge Construction 2017 and Standard Specifications for Road and Bridge Construction 2014
11. Standard Specifications for Public Works Construction (Orange Book specifications) sponsored and distributed by R. T. C. of Washoe County, Washoe County, City of Sparks, City of Reno, Carson City, and City of Yerington; Latest Edition.
12. Reference Specifications

With reference to Contract Drawings, the order of precedence is as follows:

 - 1) Addenda/Change Order Drawings govern over any other Drawing
 - 2) Figures govern over scaled dimensions
 - 3) Contract Detail Drawings govern over Contract General Drawings
 - 4) Contract Drawing govern over Standard Details

SECTION 2.0 CONTRACT ADMINISTRATION AND RESPONSIBILITIES: OWNER'S REPRESENTATIVE, CONSTRUCTION MANAGER, DESIGN CONSULTANT AND CONTRACTOR:

GC 2.6.11 A. Certified Payrolls

Add the following:

State and federal prevailing wages are required for this project. The contractor is to use the higher rate between the two.

GC 2.6.11 B. Not to Engage-Boycott of Israel

Remove the following Section:

Section B – Not to Engage-Boycott of Israel

Add the following Section:

GC 2.6.11 C. DBE Goal Clarification

The established DBE Goal that is required for this project shall be met per federal requirements. The established DBE Goal is 6.0%. Should the General Contractor propose in their bid that they can achieve a higher percentage than what has been established the DBE goal changes to the bid amount not the established about. See below for example:

Example:

Established DBE Goal: 2%

Percent of DBE participation GC bids: 5%

Percent GC is required to meet: 5%

SECTION 3.0 PROGRESS OF WORK, MEETINGS, SCHEDULES

GC 3.5 Time of Completion

Add the following:

The successful Bidder, upon becoming the Contractor after having entered into a Contract with the City, shall commence the Work to be performed under the Contract on the date set by the City in the written Notice to Proceed, continuing the Work in accordance with the approved schedule and shall complete the entire Work by and **within 150 working days and all work must be completed by October 31, 2023**. It is anticipated the Notice to Proceed date for this project will be in December 2022.

GC 3.11 Construction Schedules

A Type (A) construction schedule is required.

GC 3.7 City – Furnished Materials

None.

GC 3.13 Liquidated Damages

Liquidated Damages are unchanged from those listed.

GC 3.17 Protection of Antiquities

Replace the section in its entirety with the following:

State and Federal laws pertaining to the protection and preservation of sites or objects of archeological, paleontological or historic interest shall be observed by the Contractor performing this Work.

In order to ensure the protection of cultural resources and to avoid penalties (Public Law 96-95: 16 U.S.C. 470ii), the area outside the right-of-way as denoted by the project plans or outside the designated staging area(s) shall be completely avoided. Do not park, turn around vehicles, stage activity, landscape or otherwise modify the surface in these areas. If any historical, cultural or paleontological resources are encountered during the course of work operations must cease immediately within 100 feet of the area of discovery and the surrounding area is to be protected. The Contractor must report promptly to the State Historic Preservation Office at (775) 684-3448, NDOT Cultural Resources Program Manager, Cliff Creger, at (775) 888-7666, and the Construction Manager upon discovery.

Work shall not be resumed in the immediate area until the Contractor is advised by the authorities having jurisdiction that study or removal of the feature or features has been completed. The Contractor may be allowed an appropriate contract extension of time, as provided for in these General Conditions, for construction time lost.

SECTION 4.0 SHOP DRAWINGS AND QUALITY CONTROL/INSPECTIONS

Add the following Section:

GC 4.1.1 Required Submittals

The following items, (including but not limited to) are required submittals:

General

- Insurance Certificates for Additional Insured
- Construction Schedule
- Schedule of Values
- Permits
- Federal and State Labor Reporting Requirements
- Material Certificates of Compliance
- NOI for Storm Water Pollution Prevention Plan

Storm Water Pollution Prevention Plan
 Nesting Survey Report
 NDEP working in waterways permit
 Noxious Weed Management plan
 Safety Program
 Traffic Control Drawings
 Haul Routes
 Certified Payroll Reports, Weekly
 Certified Payments
 Weekly BMP Log
 Disposal Plan, Permits and Permissions
 Record Drawings
 Warranties

Materials

Aggregate Base Material
 Asphalt Concrete Mix Design
 Pipe Bedding Material
 Tack Coat
 Concrete Mix Design
 Catch Basins, Inlets and Appurtenances
 Rip Rap
 Permanent Signs, Poles and Anchors
 Detectable Warning Cast Iron Pads (Plates)
 Storm Drain Pipe
 Fencing
 Any Steel
 Rock Bags or other BMPs
 Pavement Marking Paint
 Permanent Signs
 Water Pipe, Valves, Meters, Other Fittings
 Fire Hydrants

4.5.3 Samples and Tests

Add the following:

Required mix designs, tests and testing frequency for City maintained improvements shall follow the Standard Specifications for Public Works Construction (Orange Book specifications) sponsored and distributed by R.T.C. of Washoe County, Washoe County, City of Sparks, City of Reno, Carson City, and City of Yerington; Latest Edition.

GC 4.2 Source of Materials

Add the following:

Material Borrow Sites - If the contractor selects a borrow site that is non-commercial, they will be required to provide the necessary surveys and documentation to complete Section 106 prior to activation. Alternatively, the contractor can supply a previous State Historic Preservation Office concurrence letter that fulfills the FHWA requirements for Section 106.

SECTION 5.0 PAYMENT

GC 5.4 Payment for Labor and Materials

Add the following:

Prompt payments to subcontractors as must be submitted in accordance with 49 CFR 26.29.

The prime contractor shall pay each subcontractor for satisfactory performance of the subcontractor's contract no later than 10 days from the receipt of each payment the prime contractor receives from the City. The prime

contractor agrees further to return retainage payments to each subcontractor within 10 days after the subcontractor's work is satisfactorily completed in accordance with 49 CFR 26.29(b)(3). For the purposes of this Subsection, satisfactory completion is defined as the following conditions:(a) Satisfactory completion of the subcontractor's scope of work as described in the contract documents; (b) Receipt of payment for subcontractor's scope of work; (c) Release of claims from subcontractor's laborers, material and equipment suppliers, and lower tier subcontractors;(d) Payment, if applicable, of all union benefits or to employee trust accounts

GC 5.5.1 Partial Payments – Inclusion of Materials on Hand

Add the following:

The following materials are eligible for partial payments: None.

SECTION 7.0 CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

GC 7.1 General

Add the following paragraph:

Construction Staging Area:

The Contractor is allowed to stage and store material and equipment within the roadway(s) of the project limits. The Contractor may also elect to use the City owned areas indicated in the images below to store material and equipment. These areas were environmentally cleared by NDOT in 2021. The Contractor's SWPPP shall include the staging area(s) and indicated all necessary BMP to be installed to prevent runoff into adjacent areas.

If the Contractor elects to use a different area for staging, refer to Section 106.08 Storage of Materials of the NDOT Standard Specifications for Road and Bridge Construction, 2014, (Silver Book). The Contractor should begin coordination for the use of any others area as soon as possible if alternative staging areas are desired/





GC 7.3.4 Noise Abatement

Amend the hours for allowable daytime and nighttime noise levels to the following:

Allowable Daytime Noise Levels as measured at the exterior of any given site shall be a noise level of not more than 75 dba Leq from the hours of 7:00 AM to 6:00 PM daily.

Allowable Nighttime Noise Levels as measured at the exterior of any site shall be a noise level of not more than 55 dba Leq from the hours of 6:00 PM to 7:00 AM daily.

GC 7.3.5 Working Hours

The Normal Working Hours for the project have not been changed, Monday thru Thursday 7:00AM to 5:30PM.

GC 7.3.8.1 Salvage of Material

Add the following:

Any salvaged items shall be delivered to the Carson City Corporation Yard, 3505 Butti Way. Contact Justin Tiearney at (775) 887-2355 to schedule deliveries.

GC 7.4.2 Traffic Control

The Contractor shall keep two-way traffic as much as possible during construction. Any full road closures will not be allowed without pre-approval from the construction manager. Contractor must always maintain bus route access unless approved by the Construction Manager. Any bus route interruptions shall be coordinated with the Construction Manager 72 hours in advance. Pedestrian routes shall be maintained as much as possible during construction.

One-way traffic may also be approved by the construction manager. The City will also allow non-flagger controlled one-way traffic where needed during specific construction activity with prior approval from the construction manager.

GC 7.4.4 Pedestrian and Bicycle Detours

Replace the section in its entirety with the following:

Advanced warning/detour signs shall be placed to notify pedestrian and bicycle traffic of any closure and to avoid all possible situations that may require individuals to turn around to avoid the closure. Pedestrian and bicycle detour routes shall be established to provide continuous connectivity along Colorado Street and California Street including access to all JAC bus stops.

Pedestrian and bicycle detour routes shall be established to provide continuous connectivity along Colorado Street and California Street including access to all JAC bus stops. All pedestrian detour routes shall be ADA compliant to the extent practicable. Pedestrian detour route accessibility shall be at least equal to or greater than the closed route. The use of temporary ramps or other similar features may be required.

GC 7.5 Project Signs

Add the following:

A project sign is required. Please see last page of Attachment C for sign posting and noticing requirements.

In addition to the above project sign requirement, Carson City will require two (2) Carson City project signs to be posted on the job site. One on either side of the project limits. Locations for the signs shall be coordinated with the project manager and construction manager. The sign detail can be found in attachment E of these bid documents.

SECTION 8.0 CONTRACT COMPLETION, O&M MANUALS

Add the following section:

GC 8.8.1 Format and Manner of Record Drawings

The Contractor shall transfer all markings and record information to a clean set of Contract drawings. The words "AS-BUILT" shall be clearly indicated on the title sheet of the plans with the Contractor's name, address, phone number, contact person and month/year of completion. The as-built plans shall be completed on the Conformed for Construction set of plans.

Record information shall be indicated by a clouded line around the changed items with a strikeout through the original items. Location of items in the list below are to be measured in the same format as shown on the plans (ie. where station and offset is shown on the plans, record drawings are to show station and offset, where northing and easting is shown on plans, record drawings are to show northing and easting). The degree of detail that the Contractor is to follow on the as-built drawings shall match the detail provided on the Conformed for Construction set of plans for station, offset, elevation, and other methods of defining location. When an elevation is provided on the Conformed set, the elevation is to be verified and noted if different than the Conformed set.

The Contractor shall submit both the original marked field plans and the completed as-built plan set to the Construction Manager for review and acceptance.

SC.4 SPECIAL PROVISIONS

SC.4.1 Residential Notifications

Contractor is responsible to notify all residential properties that will be affected by the project 72 hours in advance of street work. A sample of the notice must be submitted to the Construction Manager for approval prior to

distribution. **The contractor is responsible for notifying residents at least 24 hours in advance before any private improvements are disturbed or removed for construction activities.**

All water shut-down notifications must be conducted in accordance with the Water General Notes on sheet G2 of the plans. Please review all water notification requirements as they may have changed from past Carson City Projects.

SC. 4.2 Other Notifications

Contractor shall notify the Carson City School Bus center at (775) 283-1950 at least twenty-four (24) hours in advance of (approved by CM) rerouting public traffic when traffic patterns are to be altered due to construction operations. Said notification shall set forth the specific traffic patterns to be provided in lieu of the normal routing and the estimated duration of such change(s).

Contractor shall notify Waste Management (Trash Pick-up) at (775) 887-0402 at least twenty-four (24) hours in advance of (approved by CM) rerouting public traffic when traffic patterns are to be altered due to construction operations. Said notification shall set forth the specific traffic patterns to be provided in lieu of the normal routing and the estimated duration of such change(s).

Contractor shall notify Carson City RTC JAC (Transportation Bus) at (775) 841-7433 at least twenty-four (24) hours in advance of (approved by CM) rerouting public traffic when traffic patterns are to be altered due to construction operations. Said notification shall set forth the specific traffic patterns to be provided in lieu of the normal routing and the estimated duration of such change(s).

Contractor shall notify United States Postal Service at (775) 884-2300 at least twenty-four (24) hours in advance of construction operations which may affect access for the Postal Service. Said notification shall include specific traffic patterns to be provided in lieu of the normal routing and the estimated duration of such change(s). Contractor shall coordinate with the Postal Service to ensure that mail delivery is not impacted.

SC.4.3 Clean Water Act (If applicable) Note this item is not applicable

The bidder's attention is directed to Sections 401 and 404 of the Clean Water Act (CWA). This contract must be constructed under a United States Army Corps of Engineers nationwide permit obtained by Carson City subject to conditions outlined in Subsection 108.04 of the Standard Specifications. This contract must be constructed pursuant to the Nevada Division of Environmental Protection's 401 Water Quality Certification obtained by Carson City. Compliance with all rules, regulations, special stipulations and laws pertaining to the CWA shall be the responsibility of the Contractor.

If, in the duration of this contract, any change to the project is considered, the party proposing the change shall be responsible for (1) insuring that the project continues in compliance with Sections 401 and 404 of the CWA and (2) any resultant delays and/or increased costs.

SC 4.4 Other Requirements by NDOT

Refer to Attachment D, Environmental Considerations, for information regarding Migratory Birds, Bats, Noxious Weed Management, Fencing, and Naturally Occurring Asbestos/Erionite.

SC.5 DESCRIPTION OF BID ITEMS AND BASIS FOR PAYMENT

SC 5.1 General

Payment for the various items of the Proposal Summary, shall be as specified herein.

Payment for each Bid Item shall include the following Work, and shall fully compensate for any necessary Work required to perform the construction operations specified and shall be considered to be included in the bid price for the items of Work and no additional compensation will be allowed therefore. This Work includes any necessary construction staking and layout, storm water pollution prevention, potholing to verify data, dimensions and locations of subsurface facilities and service connections, sawcutting, removal and disposal of existing improvements, clearing, removal and disposal of vegetation, excavating, removal and disposal of

excess material, de-watering, shoring, by-pass pumping, coatings, connection to existing and proposed pipes, cutting and plugging abandoned pipes intercepted by the trench section, removal and disposal of abandoned pipes and appurtenances within the trench section, compacting, disinfection, testing, temporary and final asphalt replacement, revegetation of disturbed areas, landscaping, irrigation piping, and as well as other incidentals, for completion of the Work in conformance with the Contract Documents.

The terms "construct, furnish, install, erect, perform, place, prepare, remove or replace" shall mean that the bid item is complete, in place, ready for use and recommended for payment by the Construction Manager.

All Work in City roads under this Contract shall conform to the requirements the "Standard Specifications for Public Works Construction," latest Edition (SSPWC) including all revisions as adopted by Carson City except as modified by these Special Conditions or Technical Specification.

Use the NDOT Standard Plans for Road and Bridge Construction 2017 and Standard Specifications for Road and Bridge Construction 2014 (SPSRBC) for all construction within NDOT right-of-ways or lands owned by NDOT.

Requirements presented in the Amendments to the Standard Specifications supersede the requirements of the Technical Specifications.

SC 5.2 Bid Item Descriptions

SC 5.2.1 Mobilization / Demobilization

- A. Measurement of this item will be per Lump Sum.
- B. Payment Schedule for partial payments for Mobilization/demobilization for all Schedules shall be as follows:
- When the monthly partial payment estimate of the amount earned for the respective Schedule, not including these items, is 15% or more of the original Schedule contract amount, then 30% of this item will be included for payment in that, one monthly partial payment estimate.
 - When the monthly partial payment estimate of the amount earned for the respective Schedule, not including these items, is 50% or more of the original Schedule contract amount, then an additional 30% of this item will be included for payment in that, one monthly partial payment estimate.
 - When the monthly partial payment estimate of the amount earned for the respective Schedule, not including these items, is 75% or more of the original Schedule contract amount, then an additional 30% of this item will be included for payment in that, one monthly partial payment estimate. The remaining 10% of these items shall be paid under the final payment provisions.
- C. Work under this bid item shall consist of Contractor mobilization, staging, demobilization, clean-up, permit coordination, and any preparatory Work and operations necessary for the movement of personnel, equipment, supplies and incidentals to the project site before beginning construction. Work under this item shall also include any other item of Work for which other bid items have not been established in the bid schedule.
- D. This work also includes ongoing surface cleaning. The contractor shall be responsible for maintaining the integrity of all transportation surfaces, both asphalt and dirt, access roads, bike lanes, sidewalks, pathways, gates, etc. Dust, dirt, mud, gravel, etc. carried onto the transportation surface shall be cleaned off on a regular basis (at least once a day or as requested by City personnel). Failure to comply may result in the City having the area cleaned and the cost for the clean-up billed to the contractor.

SC5.2.2 Traffic Control

- A. Measurement of this item will be per Lump Sum.

- B. Payment for Traffic Control will be pro rata based on the percent of Work completed under this schedule and based on the lump sum price named in the Proposal Summary, which price shall constitute full compensation for providing labor, materials, preparation and distribution of plans, notices and reports, luminaries, signing, light plants, cones, traffic drums, warning lights, sequential flashers, temporary striping, traffic control services/inspections outside of normal working hours, preparation of formal inspection reports by Traffic Control Supervisor, equipment, and incidentals required as a result of changes in the Contractor's work method or schedule.
- C. See section the amendment to "GC 7.4 Public Safety, Convenience, and Traffic Control" noted on page SC-7 and SC-8 for additional information.

SC 5.2.3 Survey and Record Drawings

- A. Measurement of this item will be per Lump Sum.
- B. Payment for the construction survey shall be made at the unit price named in the bid response. 50% of the total price for Survey and Record Drawings shall be made after completion and receipt of the record drawings.
- C. This item includes work associated with construction survey record drawings. Requirements for record drawings are outlined in GC 8.8 and "SC.2 Amendments to the General Conditions", section GC 8.8.1 and on page SC-5 and SC-6. The contractor will be required to complete a pothole verification form for utilities potholed during construction. Work associated with completion of the form is to be paid under this item.

SC 5.2.4 Stormwater Protection SWPPP (3)

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), (SPSRBC), and these Special Conditions, as detailed in Division 13 in the Carson City Development Standards or as required by the NDOT encroachment permit.
- B. Measurement of this item will be on a lump sum basis.
- C. Payment for Stormwater Protection SWPPP shall be made at the unit price named in the bid response, which price shall constitute full compensation for the installing and maintaining all BMPs throughout the construction period including preparation and maintenance of the SWPPP plans based on the method and progress of construction, staking, traffic control, disposal of devices and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.5 Sawcut & Remove Existing AC Pavement (4)

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC) or (SPSRBC), these technical specifications and as shown on the plans. Demolition (Demo) is the removal of any existing structure or material that interferes with the installation of a new improvement. Such items would consist of asphalt concrete, and aggregate base.
- B. Measurement of this item will be on a square foot basis.
- C. Payment for Demo & Remove Existing AC Pavement shall be made at the Unit Price named in the bid response, which price shall constitute full compensation for Demo & Remove Existing AC Pavement including staking, traffic control, sawcutting, excavation, grading, disposal to the landfill, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.6 Pulverize and Remove Asphalt Road to 9" and 10" Depths

- A. Work under these bid items shall conform to the requirements of the Carson City Technical Specifications

and other applicable Technical Specifications.

- B. Measurement of this item will be per Square Foot for Pulverizing AC and hauling pulverized material to Landfill. Free dump tickets will be provided by the City
- C. Payment for these items will be made at the unit price named in the Proposal Summary, which price shall constitute full compensation for all necessary removals from construction areas and all other labor, tools, equipment, materials and incidentals required to perform the work.

SC 5.2.7 Demo & Remove Existing Concrete Sidewalk, Driveways, Spandrel, Valley Gutter and Curb Ramps

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC) or (SPSRBC), these technical specifications and as shown on the plans. Demolition (Demo) is the removal of any existing structure or material that interferes with the installation of a new improvement. Such items would consist of concrete and aggregate base.
- B. Measurement of this item will be on a square foot basis.
- C. Payment for Demo & Remove Existing Sidewalk, Driveway, Spandrel, Valley Gutter and Curb Ramps shall be made at the Unit Price named in the bid response, which price shall constitute full compensation for removing Sidewalk, Driveway, Spandrel, Valley Gutter and Curb Ramps including staking, sawcutting, excavation, grading, disposal to the landfill, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.8 Demo & Remove Existing Concrete Curb and Gutter

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans. Demolition (Demo) is the removal of any existing structure or material that interferes with the installation of a new improvement. Such items would consist of concrete curb, gutter and aggregate base.
- B. Measurement of this item will be on a lineal foot basis.
- C. Payment for Demo & Remove Existing Concrete Curb and Gutter shall be made at the Unit Price named in the bid response, which price shall constitute full compensation for removing Existing Concrete Curb and Gutter including staking, sawcutting, excavation, grading, disposal to the landfill, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.9 Remove Water Meter Box and Cover

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement of this item will be on a per Each basis.
- C. Payment for Removal of Water Meter Box and Cover shall be made at the Unit Price named in the bid response, which price shall constitute full compensation for removal water meter boxes, excavation, grading, compaction, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.10 Remove Fire Hydrant Assembly

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement of this item will be on a per Each basis.
- C. Payment for Removal of Fire Hydrant Assembly shall be made at the Unit Price named in the bid response, which price shall constitute full compensation for removal of fire hydrant assemblies, excavation, grading,

compaction, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.11 Remove Catch Basin

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement of this item will be on a per Each basis.
- C. Payment for Removal of Catch Basins shall be made at the Unit Price named in the bid response, which price shall constitute full compensation for removal and replacement of catch basins, excavation, grading, compaction, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.12 Remove CMP Storm Drain Pipe

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement of this item will be on a per Lineal Foot.
- C. Payment for Removal of CMP Pipe shall be made at the Unit Price named in the bid response, which price shall constitute full compensation for removal and replacement of pipe, excavation, grading, compaction, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.13 Remove and Salvage Street Sign – Return Sign Panel to CCPW Yard

- A. Work under this bid item shall conform to the plans. Return the sign panel only to the CCPW yard.
- B. Measurement for this bid item will be on a per each basis.

SC 5.2.14 Remove and Salvage Street Sign – Return Sign Panel and Signpost to CCPW Yard

- A. Work under this bid item shall conform to the plans. Return the sign panel and street post to the CCPW yard.
- B. Measurement for this bid item will be on a per each basis.

SC 5.2.15 Remove and Replace Keystone Wall

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans. Demolition (Demo) is the removal of any existing structure or material that interferes with the installation of a new improvement. Such items would consist of removing and replacing the keystone wall.
- B. Measurement of this item will be on a lineal foot basis.
- C. Payment for Remove and Replace Keystone Wall shall be made at the Unit Price named in the bid response, which price shall constitute full compensation including excavation, grading, compaction, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.16 Remove and Relocate Water Meter - This Item Includes Any Needed Removal and Replacement of Concrete Curb, Gutter and Sidewalk.

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement of this item will be on a per Each basis.

- C. Payment for Remove and Relocate Water Meter shall be made at the Unit Price named in the bid response, which price shall constitute full compensation for removal and replacement of water meter, excavation, grading, compaction, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.17 Remove and Relocate Mailbox

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement of this item will be on a per Each basis.
- C. Payment for Remove and Relocate Mailbox shall be made at the Unit Price named in the bid response, which price shall constitute full compensation for removal and replacement of Mailbox, excavation, grading, compaction, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work. **Mailboxes must be always accessible for mail delivery. Temporary mailbox locations shall be coordinated with the construction manager and property owner when needed.**

SC 5.2.18 Remove and Relocate Fence and Posts

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans. The existing fence and posts will need to be relocated using all existing materials if possible.
- B. Measurement of this item will be per Lineal Foot.
- C. Payment for Relocate Remove and Replace Fence and Posts shall be made at the Unit Price name in the bid response, which price shall constitute full compensation for fence relocation including staking, excavation and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.19 Relocate sign(s) and signpost with new anchor

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans. This item reuses the existing sign and post with installation of new signpost anchor to raise the sign(s). **Provide certifications for US steel.**
- B. Measurement for this bid item will be on a per each basis.
- C. Payment for Relocate sign(s) and signpost with new anchor shall be made at the unit price named in the bid response, which price shall constitute full compensation for installing anchors, including new anchors, concrete, excavation and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work. All signs shall conform to the MUTCD for streets and highways, 2009 Edition.

SC 5.2.20 Adjust Existing Manhole Frame and Cover to Finish Grade

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans. The item includes lowering frame and covers prior to paving and raising frame and covers to final grade after paving.
- B. Measurement of this item will be on a per Each basis.

SC 5.2.21 Adjust Existing Valve Box and Lid to Finish Grade

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans. The item includes lowering valve box and lids prior to paving and raising valve box and lids to final grade after paving.
- B. Measurement of this item will be on a per Each basis.

SC 5.2.22 Adjust Water Meter Box to Finish Grade

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans. This item includes adjusting all water meter boxes to finish grade as shown on the plans.
- B. Measurement of this item will be on a per Each basis.

SC 5.2.23 Root Mitigation

- A. Measurement for this item will be per Hour.
- B. Payment for root mitigation shall be made at the unit price named in the bid response and is not subject to adjustment under section GC 6.4.4.
- C. Refer to Technical Specifications Document No. 1007 for additional information

SC 5.2.24 Landscape and Irrigation Removal and Restoration of Existing Site Improvements

- A. Measurement for this item will be per Lump Sum.
- B. Payment for Landscape and Irrigation Removal and Restoration of Existing Site Improvements shall be made at the unit price named in the bid response.
- C. This item includes removing and repairing any landscaping and existing site improvements disturbed during construction to their original condition. Items include but are not limited to irrigation, sod, turf, vegetation, fencing, cobble, pavers, block walls, mulch, fencing, landscape blocks/curbing, historical markers/monuments and other improvements disturbed during construction but not paid under other bid items. The Contractor is required to install new sod in all locations where existing sod is removed in order to complete the work. The Contractor is required to water and maintain the sod until the sod has rooted into the existing soil.

SC 5.2.25 Survey Monuments

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement for this bid item will be on a per each basis.
- C. Payment for Survey Monument Re-establishment shall be made at the Unit Price name in the bid response, which price shall constitute full compensation for re-establishing survey monuments disturbed during construction. A licensed surveyor must conduct work under this item.
- D.
- E. Alternate Item 1 will include includes full protection of each survey monument. All heavy equipment will need to stay a sufficient distance from the monuments in order not to disturb the monument.
- F. Alternate Bid Item 2 includes the full removal and re-establishment of each survey monument.

SC 5.2.26 Obliterate Existing Striping/Pavement Markings

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement for this bid item will be on a Lump Sum basis.
- C. Pavement markings shall be grinded off completely or blasted off using method approved by the Carson City Construction Manager.

SC 5.2.27 8" C900 Water Main

- A. Measurement for this bid item will be per Lineal Foot.
- B. Payment for 8" C900 water main shall be made at the Unit Price named in the bid response.
- C. Work associated with removal of existing water main, valves, and fittings as required for installed of new water main is to be included in this bid item. "T"s, retainers, thrust blocks, couplings, FCA's, blind flanges and other associated appurtenances required to make the connections to existing water mains are also to be included in this bid item.

SC 5.2.28 New 8" Gate Valve

- A. Measurement for this bid item will be per Each.
- B. Payment for new 8" gate valves shall be made at the Unit Price named in the bid response.

SC 5.2.29 6" C900 Water Main

- A. Measurement for this bid item will be per Lineal Foot.
- B. Payment for 6" C900 water main shall be made at the Unit Price named in the bid response.
- C. Work associated with removal of existing water main, valves, and fittings as required for installed of new water main is to be included in this bid item. "T"s, retainers, thrust blocks, couplings, FCA's, blind flanges and other associated appurtenances required to make the connections to existing water mains are also to be included in this bid item.

SC 5.2.30 New 6" Gate Valve

- A. Measurement for this bid item will be per Each.
- B. Payment for new 6" gate valves shall be made at the Unit Price named in the bid response.

SC 5.2.31 Install Water Line Locate Box

- A. Measurement for this bid item will be per Each.
- B. Payment for line location boxes shall be made at the Unit Price named in the bid response. See plans for line location box installation details.

SC 5.2.32 Install 1" Water Service with 1" Single Water Meter Set – This Item Includes Any Needed Removal and Replacement of Concrete Curb, Gutter and Sidewalk.

- A. Measurement for this bid item will be per Each.

- B. Payment for 1" water service with 1" single water meter set shall be made at the Unit Price named in the bid response. This price shall include labor, equipment, materials, and all appurtenances required for installation of each water service as shown on the plans and details.

SC 5.2.33 Install 2" Water Service with 1" Dual Water Meter Set – This Item Includes Any Needed Removal and Replacement of Existing Concrete Curb, Gutter and Sidewalk.

- A. Measurement for this bid item will be per Each.
- B. Payment for 2" water service with 1" dual water meter set shall be made at the Unit Price named in the bid response. This price shall include labor, equipment, materials, and all appurtenances required for installation of each water service as shown on the plans and details.

SC 5.2.34 Install Water Meter Box and Cover – This Item Includes Any Needed Removal and Replacement of Existing Concrete Curb, Gutter and Sidewalk.

- A. Measurement for this bid item will be per Each.
- B. Payment for installation of water meter boxes and covers shall be made at the Unit Price named in the bid response. This price shall include labor, equipment, materials, and all appurtenances required for installation of each water service.

SC 5.2.35 Install Fire Hydrant Assembly - This Item Includes Any Needed Removal and Replacement of Concrete Curb, Gutter and Sidewalk.

- A. Measurement for this bid item will be per Each.
- B. Payment for Installing Fire Hydrant assemblies shall be made at the Unit Price named in the bid response.
- C. This item includes all components of the assembly from the connection to the existing water main to the hydrant.

SC 5.2.36 Install Water Air Release Valve

- A. Work under this bid item shall conform to plans and associated details as well as the requirements of of the Carson City Technical Specifications and other applicable Technical Specifications contained herein.
- B. Measurement of this item will be per Each ARV installed
- C. Payment for water installing air release valves will be made at the unit price named in the Proposal Summary, which price shall constitute full compensation for excavation, furnishing and placing the pipe including pipe, fittings, thrust blocks and restraining devices, material and appurtenances, locating wire and tape, importing bedding, dewatering, subgrade stabilization and preparation, backfilling and all other work, labor, equipment, materials, and incidentals necessary for a complete installation.

SC 5.2.37 Construct Waterline Raising/Lowering

- A. Work under this bid item shall conform to plans and associated details as well as the requirements of Section 1008, Sections 2001 through 2019, as applicable, of the Carson City Technical Specifications and other applicable Technical Specifications contained herein.
- B. Measurement of this item will be per Each waterline lowering constructed.
- C. Payment for water line lowering/raising will be made at the unit price named in the Proposal Summary, which price shall constitute full compensation for excavation, furnishing and placing the pipe including pipe, fittings,

angle point markers, thrust blocks and restraining devices, material and appurtenances, locating wire and tape, importing bedding, dewatering, subgrade stabilization and preparation, backfilling and all other work, labor, equipment, materials, and incidentals necessary for a complete installation.

SC 5.2.38 Slurry Fill Existing Sewer and Water Mains (bid items 15-18)

- A. Measurement for these bid item will be per Lineal Foot.
- B. Payment for slurry filling existing sewer and water mains shall be made at the Unit Price named in the bid response.
- C. Cell-crete is an acceptable alternative to traditional low strength slurry.

SC 5.2.39 Abandon Existing Water Valve

- A. Measurement for these bid item will be per Each.
- B. Payment for abandoning existing water valves shall be made at the Unit Price named in the bid response.

SC 5.2.40 Modify Existing Manhole

- A. Measurement for these bid item will be per Each.
- B. Payment for modifying existing manhole shall be made at the Unit Price named in the bid response.

SC 5.2.41 Install Type 4-R Storm Drain Catch Basin

- A. Work under this bid item shall conform to the City Standard Specifications and applicable Technical Specifications.
- B. Measurement of this item will for Each Type 4-R Drop Inlet installed.
- C. Payment for this item will be made at the unit price named in the Proposal Summary, which price shall constitute full compensation for installation of inlets as shown on the plans and specifications. This item includes all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.42 Install 12" PVC Storm Drain Pipe

- A. Work under this bid item shall conform to the City Standard Specifications and applicable Technical Specifications.
- B. Measurement of this item will for Each Type 4-R Drop Inlet installed.
- C. Payment for this item will be made at the unit price named in the Proposal Summary, which price shall constitute full compensation for installation of pipe as shown on the plans and specifications. This item includes all other labor, tools, equipment, materials and incidentals required to perform the work.

SC 5.2.43 Roadbed Modification (6" Depth at 4% Cement)

- A. Measurement for this item will be per Square Foot.
- B. Payment for Roadbed Modification (6" Depth at 4% Cement) shall be made at the unit price shown on the bid schedule and shall include, but not be limited to, spreading cement, mixing, hauling, grading, compacting, and finishing the treated roadbed modified surface as well as placement of curing seal and other protective measures as needed.

- C. This item includes constructing a roadbed modified section to a depth of 6" using a cement content of 4% by dry weight of pulverized material. Work under these bid items shall conform to the requirements of the Carson City Technical Specifications and other applicable Technical Specifications

SC 5.2.44 Plantmix Bituminous Pavement Roadway Patch, Type 3 Aggregate, PG 64-28 NV

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement for this bid item will be on a per square foot basis.
- C. Payment for Plantmix Bituminous Pavement Roadway Patch, Type 3 Aggregate, PG 64-28 NV, 3 inches and 4 inches shall be made at the unit price named in the bid response, which price shall constitute full compensation for installing the asphalt concrete including staking, sawcutting, grading, compaction, asphalt concrete, tack coat, and all other labor, tools, equipment, materials, and incidentals required to perform the work.

SC 5.2.45 Permanent AC Pavement Patch

- A. Measurement for this item will be per Square Foot.
- B. Payment for permanent AC pavement patch shall be made at the unit price named in the bid response.
- C. Measurement of any temporary patching the contractor chooses to place during construction prior to roadway reconstruction or permanent patching is not included in this bid item and is considered incidental to the other items of work.

SC 5.2.46 PCC Sidewalk, Curb and Gutter, Valley Gutter, Driveway Aprons, and Pedestrian Ramps, Glue Down Curb, Stamped Concrete

- A. Measurement for these items will be per the unit of measurement listed in the bid schedule.
- B. Payment for these bid items shall be made at the unit price named in the bid response.
- C. See technical specifications section 4012 "Example of Pay Quantities" for clarification of the limits for each of the PCC removal items.
- D. Material and Work associated with placement of detectable warning plates is to be paid under the PCC Pedestrian Ramp on 4" Agg. Base bid item.
- E. This item includes work associated with adjustment of existing boxes to finish grade that are to remain in place within the limits of the improvements covered in the PCC bid items.
- F. Stamped concrete shall be a dark gray, brick pattern. Carson City to provide concrete stamp to contractor.

SC 5.2.47 Sign(s) with post and anchor

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement for this bid item will be on a per each basis.
- C. Payment for Sign(s) with post and anchor shall be made at the unit price named in the bid response, which price shall constitute full compensation for installing Sign(s) with post and anchor, including staking, signs, new poles, new anchors, concrete, excavation and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work. All signs shall conform to the MUTCD for streets and highways, 2009 Edition.

SC 5.2.48 Sign(s) On Existing Post

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans.
- B. Measurement for this bid item will be on a per each basis.
- C. Payment for Signs on existing post and anchor shall be made at the unit price named in the bid response, which price shall constitute full compensation for installing Sign(s) onto existing post and anchor, including traffic control, signs, hardware and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work. All signs shall conform to the MUTCD for streets and highways, 2009 Edition.

SC 5.2.49 Install Type 2 Object Marker

- A. Measurement for this item will for Each object marker installed.
- B. Payment shall be made at the Unit Price named in the bid response which includes all costs for labor, equipment, construction materials and any other incidentals required to perform the work as shown on the plans.

SC 5.2.50 Striping & Pavement Markings – Two Coats Are Required on All Pavement Striping and Markings

- A. Work under this bid item shall conform to applicable Sections of the (SSPWC), these technical specifications and as shown on the plans. This item does include painting some curb red on Colorado Street.
- B. Measurement for this bid item will be unit of measurement listed in the bid schedule.
- C. Payment for Striping & Pavement Markings shall be made at the Unit Price named in the bid response, which price shall constitute full compensation for Striping & Pavement Markings including layout, paint, staking, traffic control, and all necessary appurtenances and all other labor, tools, equipment, materials, and incidentals required to perform the work. All striping shall conform to the MUTCD for streets and highways, 2009 Edition.

SC.6 CARSON CITY AMENDMENTS TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC):

The Standard Specifications for Public Works Construction are hereby amended by adding, deleting or amending the following;

AMENDMENTS TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION**PART 1 GENERAL PROVISIONS**

The General Provisions will not be used. See General Conditions in this document.

SC.7 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SPSRBC):

The Standard Specifications for Road and Bridge Construction are hereby amended by adding, deleting or amending the following;

PART 1 GENERAL REQUIREMENTS

The General Requirements Section 101 to 110 will not be used. See General Conditions in this document.

PART 2 CONSTRUCTION DETAILS

All Sections – Method of Measurement and Basis of Payment are as listed in the proposal and described in the Special Conditions.

Section 200 – Construction Stakeout will not be used. See General Conditions in this document.

Section 402 – Plantmix Bituminous Surface. The smoothness of the final surface shall use method (a) Straightedge.

Section 405 – Tack Coat. Any needed tack coat shall be Emulsified Asphalt, Type SS-1.

Section 624 – Accommodations for Public Traffic. Traffic control plans are provided by the contractor as a submittal. The typical traffic control plans would be planned for shoulder, intersection and/or lane work.

PART 3 MATERIAL DETAILS

Section 703 – Bituminous Materials. The asphalt cement shall be grade PG 64-28NV

Section 704 – Base Aggregate. Type 2, Class A Aggregate Base shall be used under pavement, concrete and for shoulders.

Section 705 – Aggregate for Bituminous Courses. Used type 3 aggregate.

Technical Specifications

TECHNICAL SPECIFICATIONS

Colorado Street CDBG Pavement Reconstruction Project

Project P303521001

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DOCUMENT No. 1006 ROAD REPAIR (8/21/13)**1. General:**

- 1.1. This section specifies the requirements for repair and replacement of paved and unpaved roads, approaches and driveways which have been cut, damaged or removed during construction to their original or better condition. At the end of each working day, all open trenches within operating (open to traffic) paved roadways or driveways shall be backfilled and a temporary patch of cold, road-mix asphalt concrete shall be installed unless otherwise specified in these Contract documents or authorized by Construction Manager. At the end of each working day, all open trenches within operating (open to traffic) unpaved areas shall be backfilled to match existing grade. During construction and prior to final surfacing, Contractor shall diligently maintain all temporary trench surfacing repairs to maintain a safe surface condition for the public traffic. Prior to completion of the Work, all temporary asphalt concrete pavement shall be removed and final paving shall be placed, and all unpaved areas shall be repaired as described below.

2. Asphalt Pavement Repairs:

- 2.1. Asphalt pavement structural section shall consist of Type 2, Class B, Aggregate Base material per Section 200.01.03, Crushed Aggregate Base, of the Standard Specifications, compacted to 95% relative density overlaid with Type 3, PG 64-22 Plantmix Bituminous Pavement at depths as specified on the drawings. Final asphalt concrete pavement and repairs shall be as specified in Document No. 4007 Asphalt Concrete Pavement, of these Technical Specifications.
- 2.2. Recycled Aggregate Base will not be allowed in any public roadway.

3. Gravel Surface Roadway and Driveway Repairs:

- 3.1. Unpaved, gravel surfaced roadways and driveways shall be repaired to match existing conditions, but at a minimum four (4) inches thick section of Type 2, Class B, Crushed Gravel Base per Section 200.01.03 of the Standard Specifications, compacted to 95% relative density.
- 3.2. The subgrade shall be graded and shaped as required to construct the crushed gravel base surface. The subgrade shall be compacted to 90% relative density.
- 3.3. After placing, shaping, and compacting of the crushed gravel base, the finished surface shall be one-half inch above the adjacent surface.

4. Asphalt Surface Driveways:

- 4.1. Asphalt surfaced driveways shall be repaired to match the existing driveway structural section. The asphalt pavement shall be as specified in Document No. 4007 Asphalt Concrete Pavement of these Technical Specifications.
- 4.2. Subgrade preparation and crushed gravel base shall be as indicated for gravel surface driveways. The aggregate base shall be coated with prime coat prior to installation of the asphalt surface.

END OF DOCUMENT 1006

Document No. 1007 CLEARING AND GRUBBING – ROOT MITIGATION (12/24/20)**1. DESCRIPTION**

This Section covers the construction methods involved in the clearing and grubbing operation when working near existing trees.

2. LIMIT OF WORK

Limit of work shall conform to the Standard Specifications for Public Works Construction Section 300.

3. SCOPE

Scope of work shall conform to the Standard Specifications for Public Works Construction Section 300.

4. WORK OUTSIDE STATED LIMITS

No payment will be made to the Contractor for clearing and grubbing outside the stated limits, unless such work is authorized by the Engineer. All surface improvements and landscaped areas that are damaged by actions of the Contractor shall be restored to their original condition at the Contractor's expense.

5. ROOT MITIGATION

In the event that the contractor is working within the drip line of a tree, or within 1 foot per diameter inch of tree (Example: within 12 feet of a 12" diameter tree), the contractor shall notify the Constructin Manager three (3) days prior to excavation. All tree root mitigation work shall be performed under the supervision of: Carson City Parks and Recreation representative, a Carson City Arborist, or an ISA qualified contractor. In the event that the tree roots need pruning, the Parks and Recreation representative will direct the work.

6. EXPOSURE OF TREE ROOTS

Where root mitigation is indicated on the plans, the contractor shall remove the concrete without digging into the supporting base materials and minimize root disturbance. If the City requests special methods to expose the roots, the Contractor shall expose the roots using a pneumatic or hydraulic spade tool, vacuum truck or similar device, which will loosen and remove the surrounding soils without damaging the tree roots. The contractor shall coordinate to have the roots exposed using a pneumatic or hydraulic spade tool, vacuum truck or similar device within 2 days of concrete removal. The contractor shall not expose roots without having the time or materials to rebury the root within 48 hours per specifications. Exposure work shall be completed by work area, street segment or other grouping to maximize continuity of root mitigation efforts. Tree roots may be requested to be exposed under area of sidewalks, driveways and their approaches, curb and gutter and areas within the street. Once the tree roots have been exposed, the City representative, a Carson City Aborists, or an ISA qualified contractor will perform root pruning mitigation work under the Root Mitigation bid item.

7. PROTECTION, TRIMMING & REMOVAL OF TREES

If a tree or landscaped vegetation is damaged or destroyed by construction, or any action of

the Contractor that is found to be in disregard of the City representative's instructions, the damage will be appraised using the Council for Tree and Landscape Appraisers Guide (CTLA). For total loss, the contractor will have the appraised value of the tree removed from the total contract amount. For partial damage, the tree will be devalued and the difference between the appraised value and the devalued appraisal shall be deducted from the contract amount.

In areas where existing landscaping (trees, shrubs, branches, etc.) may be impacted or are interfering with trench, curb, gutter, sidewalk and driveway aprons, the Contractor shall notify the City before commencing any landscape modifications such as pruning, trimming or removal of landscaping. Any said modifications shall only be performed at the direction of the City. The Contractor shall schedule all work required with the City's Constructin Manager.

8. BASIS OF PAYMENT

There shall be no direct payment for clearing and grubbing. Compensation for clearing and grubbing operations specified herein shall be considered included in other items of work. There will be no direct payment for items removed, salvaged and/or replaced in Subsection 4 of these Specifications.

8.1. BASIS OF PAYMENT FOR PERFORM ROOT MITIGATION BY AN ISA CERTIFIED ARBORIST, COMPLETE IN PLACE (CONTINGENT ITEM)

8.1.1. Payment shall be made at the contract hourly rate as shown on the "Schedule of Prices." This item is the performance of root mitigation. The work comprising the unit price bid for this item shall consist of all labor, equipment, materials and incidentals necessary to trim all trees, roots, landscaping and stumps by an ISA Certified Arborist. No additional payment will be made for delays caused by root mitigation assessment and work.

8.1.2. The final pay quantity shall be based on the submitted and approved invoice from the certified arborist.

8.1.3. The quantity of this contingent item of work, as set forth in the "Base Bid – Schedule of Prices," represents no actual estimate, is nominal only, and may be greatly increased, decreased or reduced to zero. The increase or reduction of this quantity shall not constitute a basis for claim by the Contractor for extra payment or damages.

8.2. BASIS OF PAYMENT FOR EXPOSURE OF TREE ROOTS FOR MITIGATION WORK (CONTINGENT ITEM)

8.2.1. Payment shall be made per each as shown on the "Schedule of Prices." This Item shall be considered full compensation for furnishing all labor, materials, equipment, and incidentals needed to complete the special method of root exposure work, including pneumatic or hydraulic spade tool, vacuum truck or similar device to remove the soil and material from the roots within the mitigation zone. No additional payment will be made for delays caused by root mitigation assessment and work.

8.2.2. Removal of concrete, hand excavations and other methods for exposing tree roots are not considered special methods and are not subject to this bid item.

8.2.3. The final pay quantity shall be based on the number of trees with root exposure requested with special methods.

8.2.4. The quantity of this contingent item of work, as set forth in the "Base Bid – Schedule of Prices," represents no actual estimate, is nominal only, and may be greatly increased, decreased or reduced to zero. The increase or reduction of this quantity shall not constitute a basis for claim by the Contractor for extra payment or damages.

8.3. BASIS OF PAYMENT FOR TREE REMOVAL BY AN ISA CERTIFIED ARBORIST, COMPLETE IN PLACE (CONTINGENT ITEM)

8.3.1. Payment shall be made per each as shown on the "Schedule of Prices" and shall be considered full compensation for furnishing all labor, materials, equipment, and incidentals needed to complete the work, including stump removal and/or stump grinding. This item shall be used only for trees that are impacted by the street reconstruction work.

8.3.2. The final pay quantity shall be based on the submitted and approved invoice from the certified arborist.

8.3.3. The quantity of this contingent item of work, as set forth in the "Base Bid – Schedule of Prices," represents no actual estimate, is nominal only, and may be greatly increased, decreased or reduced to zero. The increase or reduction of this quantity shall not constitute a basis for claim by the Contractor for extra payment or damages.

Document No. 1009 DEWATERING (1/10/2020)**1. General:**

1.1 The Work of this Section includes designing, furnishing, installing, maintaining, operating, monitoring, removing systems required to control groundwater levels and hydrostatic pressures during trench and structure excavation, and treatment of water, all in compliance with Nevada Division of Environmental Protection (NDEP) and Nevada Division of Water Resources (NDWR) requirements, and disposing of pumped water.

1.2 Dewatering shall include intercepting seepage; preventing loss of material from the trench and structure excavation; preventing rupture or heaving of the bottom of the excavation; and maintaining the water table at a minimum of one foot below excavation bottom and as necessary to complete the Work in a dry condition.

2. Submittals:

2.1 Contractor shall submit the following to Construction Manager:

- a) The proposed type of dewatering system including relief of hydrostatic head and procedure for maintaining the excavation in a dewatered and hydrostatically relieved condition.
- b) Arrangement, location, and depths of the components of the system.
- c) A complete description of equipment to be used, with installation, operation, and maintenance procedures.
- d) Standby equipment and power supply.
- e) Location, size, and construction details of sumps and discharge lines, including discharge points and drawings for removing system and restoring the area disturbed by the dewatering operations.
- f) Types and sizes of filters.
- g) Design calculations demonstrating adequacy of the selected system and equipment.

2.2 Contractor shall also submit to Construction Manager copies of correspondence with NDEP and NDWR regarding dewatering operations including Dewatering Permit, water quality tests, authorization to drill, well driller's license, and Well Driller's Report.

3. Design Criteria for Dewatering System:

3.1 Contractor shall design a dewatering system which will:

- a) Lower the groundwater level to a minimum of one foot below the bottom of the excavation and as necessary to complete the Work in a dry condition.
- b) Develop a substantially dry and stable subgrade for the performance of subsequent operations.
- c) Result in no damage to adjacent properties, buildings, structures, utilities, and other work.
- d) Not remove soil particles during pumping operations.

3.2 Contractor shall review and investigate the soils and groundwater conditions at the site and determine the type or combination of methods necessary to provide the dewatering required to perform the Work.

3.3 Dewatering procedures which cause, or threaten to cause, damage to new or existing facilities shall be modified to prevent damage. Contractor shall determine and implement modifications at no additional cost to Carson City.

4. Quality Control:

4.1 Contractor shall perform dewatering activities in compliance with the NRS and the Nevada Administrative Code, administered through NDEP and NDWR, and shall obtain all necessary permits to complete the Work of this Section. Contractor shall control the rate and effect of dewatering to avoid objectionable settlement and subsidence, and shall perform dewatering operations to adequately ensure integrity of the finished project.

4.2 Where critical structures or facilities exist immediately adjacent to areas of proposed dewatering, Contractor shall establish reference points and observe at intervals as specified in subsection 7- Monitoring of Dewatering Operations, to detect any settlement which may develop. Contractor shall conduct dewatering operations in a manner which will protect adjacent structures and facilities, and shall repair any damage caused by dewatering to adjacent structures and restore facilities at no additional cost to Carson City.

5. Equipment:

5.1 Contractor shall provide all equipment necessary for dewatering. At all times keep sufficient pumping equipment on-site, keep machinery in good working condition, and provide competent workers for operation of pumping equipment. Keep and maintain adequate standby pumping equipment on-site and available at all times to ensure efficient dewatering and maintaining of dewatering operation during any power failure.

6. Dewatering Installation and Operations:

6.1 Dewatering shall be accomplished in accordance with the reviewed submittals and special Permits. Inform Construction Manager of any changes made to accommodate field conditions and, on completion of the dewatering system installation, revise and resubmit dewatering drawings. Dewatering may include the use of:

- a) Well points
- b) Temporary pipelines for water disposal
- c) Rock or gravel placement
- d) Other means or methods reviewed by Carson City/State prior to installation.

6.2 Dewatering operations shall lower the groundwater level in excavations for prosecution of the Work, and provide a stable dry subgrade for the prosecution of subsequent operations. Operations shall commence prior to excavation and continue until a stable and dry subgrade is achieved. The water level shall be maintained at such lower elevations until no danger to the excavation, structure, or related facilities can occur because of buildup of excessive hydrostatic pressure. Maintain the water level at a minimum of one foot below the bottom of the excavation and as necessary to complete the Work until the structure has been satisfactorily completed, including sealing of joints, unless otherwise permitted by Construction Manager.

6.3 Conduct dewatering in a manner to preserve undisturbed bearing capacity of subgrade soils at proposed bottom of excavation. If foundation soils are disturbed or loosened by upward seepage of water or an uncontrolled flow of water after dewatering is in operation, Contractor shall be responsible for devising a plan and taking action to stabilize the soil and provide a firm subgrade, at no additional cost to Carson City.

6.4 Dewatering operations shall be prosecuted as required to prevent delays in construction. The responsible person in charge of the Dewatering Program shall be available for communication with the site personnel at all times, and shall be able to be on the site within one hour of being alerted.

6.5 Prevent flotation by maintaining a positive and continuous removal of water. Contractor shall accept responsibility and liability for damages which may result from failure to adequately keep excavations dewatered.

6.6 Requirements and procedures for using well points or wells are:

- a) Adequately space to provide necessary dewatering.
- b) Sandpack and/or use other means to prevent pumping of fine sands or silts from the subsurface.
- c) Continually check to ensure that the dewatering operation does not remove subsurface soils.

7. Monitoring of Dewatering Operations:

7.1 Contractor shall provide regular monitoring of the dewatering operations including, but not limited to, walking along the project a minimum of weekly to check for visual signs of settlement (i.e., cracking and so forth), discharge piping, flow rates and water quality. If any visual signs of settlement are noted, Contractor shall provide at no additional cost to Carson City a minimum of monthly surveying along the project, by a Nevada Licensed Land Surveyor, on existing improvements to check for signs of excessive settlement, and checking wells for groundwater levels.

8. Water Disposal:

8.1 Contractor shall dispose of water from the Work in a suitable manner without damage to adjacent property. Obtain approval for the method and place of disposal of groundwater from Carson City and NDEP. Contractor shall not drain water into Work built or under construction without the prior consent of Construction Manager. Upon approval of the Construction Manager, and prior to preparation of pipe or structure for acceptance, the pipeline or structure may be used to convey groundwater to sumps for pumping. Do not allow such water or associated debris to enter into any sanitary sewer system. Remove debris accumulated in the pipeline or structure and thoroughly clean prior to testing and acceptance.

8.2 Do not allow runoff from dewatering to flow in the curb, gutter, or street. Filter the water using an approved method to remove sand and fine-sized soil particles before disposal into any drainage system.

9. Groundwater Release:

9.1 Contractor shall perform release of groundwater to its static level in a manner which shall maintain the undisturbed state of natural foundation soils, prevent disturbance of compacted backfill and prevent flotation or movement of structures, pipelines, and sewers.

10. Removal and Restoration:

10.1 When groundwater control is no longer necessary, wells, equipment, drain lines and connections shall be removed in accordance with State regulations and the ground surface restored to its original conditions.

11. Payment:

11.1 Payment for dewatering shall be considered as included in the various items of Work requiring such dewatering, and no separate or additional compensation shall be allowed.

END OF DOCUMENT 1009

**Document No. 2001 STAKING, EXCAVATION, BACKFILLING AND COMPACTING FOR WATER LINES
(12/24/20)**

1. General:

- 1.1 Before any excavation on the project, Contractor shall notify all local utility companies and "Call Before You Dig" at 1-800-227-2600. Excavation shall include the removal of all materials or obstructions of any nature, the installation and removal of all sheeting and bracing and the control of water necessary to construct the work as shown. Excavation work shall be performed in a safe and proper manner with suitable precautions taken against hazards of every kind. Sheeting and shoring shall conform to the requirements of OSHA and Section 303 of the Standard Specifications. There is a significant likelihood that groundwater will be encountered during trenching excavation. Contractor shall be prepared to install and maintain pumping equipment necessary to control groundwater during construction.
- 1.2 Backfill during freezing weather shall not be done except by permission of Construction Manager. No backfill material shall be installed on frozen or yielding surfaces, nor shall frozen materials, snow or ice be placed in any backfill.

2. Reference Standards:

- 2.1 Relative compaction or density, when hereinafter referred to, means the in-place dry density of the soil expressed as a percentage of the maximum dry density of the same soil as determined by the ASTM D1557-91 test procedure. The costs of site compaction or density testing shall be paid for by Carson City. The costs of all retests (from failed tests) shall be paid for by Contractor.

3. Staking Out the Work:

- 3.1 Contractor shall retain a Nevada Licensed Professional Land Surveyor, and the Surveyor or his Subordinates shall stake out the horizontal and vertical positions of all the Work. Contractor shall satisfy himself as to the accuracy of all measurements before constructing any permanent structure and shall not take advantage of any errors found on the drawings. Where new construction connects to existing facilities, Contractor shall pothole and establish the exact locations and elevations prior to construction of the facilities.
- 3.2 It shall be Contractor's responsibility to expose the existing water lines at the points of connection for the new lines and maintain the depths of cover and slopes as indicated on the drawings. It shall also be Contractor's responsibility to:
- 3.2.1 Pothole existing utilities and, after approval by Construction Manager, modify water line grade as required to match or avoid existing utilities while maintaining the depth of cover required and the general slope of the pipe to prevent high points in the pipeline.
 - 3.2.2 Maintain the minimum amount of cover shown on the drawings, except as approved by Construction Manager.
 - 3.2.3 Adjust depth of cover, after approval by Construction Manager, as required to prevent changes in the pipe slope which would create high points at locations other than those indicated on the drawings.
 - 3.2.4 Have the Work staked in accordance with the lines and grades as shown on the drawings.

4. Trench Work:

- 4.1 Trench Configuration and Alignment:
- 4.1.1 Trenches shall be excavated to provide for the bedding as specified in subsection 5.1 Bedding.

- 4.1.2 The new pipeline shall be laid per the alignments and grades shown on the drawings.
- 4.1.3 Trenches and other excavations shall have the minimum width which Contractor can effectively excavate and install the improvements. Excessive widths will not be permitted. Trenches shall have a minimum width of twenty-four (24) inches greater than the outside diameter of the pipe to be installed. Deviations from this minimum width must be submitted to Construction Manager in writing for approval. The bottom of the trench shall be graded uniformly to provide a minimum cover of forty-two (42) inches over the top of the pipe unless otherwise shown on the drawings, provide continuous bedding support under the pipe, and to allow the pipe to be laid to the grades and alignments shown in the drawings.
- 4.2 Pipe Bedding: The trench shall be over excavated to a depth of at least six (6) inches below the bottom of the pipe and backfilled to the required grade of the bottom of the pipe with bedding material. The pipe bedding shall be brought to optimum moisture content and compacted to not less than 90% relative density. The pipe bedding at the trench bottom shall have a flat or semicircular cross section. The bottom of the trench for all pipe shall be graded and prepared to provide a firm and uniform bearing surface throughout the entire length of each pipe section except for excavation required at joints. Pipe couplings shall not rest on the trench bottom and laying the pipe on mounds will not be allowed.
- 4.3 Bedding Through the Pipe Zone: After center loading the pipe to prevent lateral movement, bedding material shall be placed in the trench simultaneously on each side of the pipe for the full width of the trench in layers not to exceed eight (8) inches in depth. Each layer or lift shall be compacted to at least 90% of maximum density evenly, on each side of the pipe throughout the pipe zone. The pipe zone is to extend from bottom of the pipe to twelve (12) inches above the top of the pipe and shall be backfilled with bedding material as specified herein.
- 4.4 Backfill Above the Pipe Zone: From twelve (12) inches above the top of pipe to the top of the trench, if not in existing pavement, or bottom of the pavement structure, if in existing pavement, pipe backfill shall consist of material as specified in subsection 5.2 Backfill. No oil cake, bituminous pavement, concrete, rock or other lumpy material shall be used in the backfill. Backfill material shall be compacted to not less than 90% relative density. All trenches shall be backfilled after pipe fittings and appurtenances have been installed, inspected and approved. All trash, wood, large rocks, waste material and other objectionable debris shall be removed from excavation prior to any material being placed in the trench. Backfill shall include the refilling and compacting of the trench or excavation.
- 4.4.1 Where existing underground pipes or conduits larger than three (3) inches in diameter cross the trench above the new work, the backfill from the bottom of the trench to the spring line of the intersecting pipe or conduit shall be Crushed Gravel Base material, Type 2, Class B, Aggregate Base conforming to the requirements of Section 200.01.03 of the Standard Specifications, compacted to 90% of maximum density. The aggregate base material shall extend two (2) feet on either side of the intersecting pipe or conduit which will insure that the material will remain in place while other backfill is placed.
- 4.4.2 Backfill by jetting shall not be allowed. Backfill shall be densified by mechanical compaction.
- 4.5 Site Excavation:
- 4.5.1 The bottom of the excavation shall not be more than one-tenth (0.10) foot above or below the lines and grades specified. If the elevation of structure excavation is not specified the excavation shall be not more than one-tenth (0.10) foot above or below the elevation specified for fill material below the structure. Cut slopes shall vary no more than five-tenths (0.5) foot from specified grade unless the excavation is in rock where the maximum variation should be two (2) feet. Unless otherwise specified, excavations shall extend a sufficient distance from walls and footings to allow for placing and removal of forms, installation of services, and for inspection, except where concrete is specified to be placed directly against excavated surfaces. Upon completion of excavation, the existing subgrade shall be compacted to a minimum of 95% relative density.

4.5.2 Should the excavation be carried below the lines and grades specified on the drawings, or should the bottom of the excavation be disturbed because of Contractor's operations and require over-excavation and backfill, Contractor, at his expense, shall refill such excavated space to the proper elevation in accordance with the procedure specified for backfill.

4.6 Rock Excavation and Blasting:

4.6.1 No blasting will be permitted without the approval of Construction Manager. When blasting is permitted, it shall be done only by skilled operators and under the direction of a competent, properly licensed foreman.

4.6.2 Blasting will be permitted only when proper precautions are taken for the protection of persons, the work, and existing structures. Any damage done to persons, private property, the work, or existing structures shall be the responsibility of Contractor.

4.6.3 Blasting shall be done with explosives of such power and in such quantities and positions as not to make the excavation unduly large, or to shatter the faces of cuts which are to remain open. Excessive blasting or "overshooting" will not be permitted, and any material outside the authorized cross-section which may be shattered or loosened by blasting shall be removed and replaced with earth as herein specified, at Contractor's expense. Construction Manager shall have authority to require Contractor to discontinue any method of blasting which leads to "overshooting" or is dangerous to the public or destructive to property or to natural features.

4.6.4 Permits for blasting shall be obtained and paid for by Contractor.

4.7 Sheeting and Shoring:

4.7.1 Excavation for trenches shall be properly and substantially sheeted, braced, and shored as required by trench conditions. Sheeting, bracing, and shoring shall be designed and built to withstand all loads that might be caused by earth movement or pressure and shall be rigid, maintaining shape and position under all circumstances.

4.7.2 During backfilling, any shoring shall be carefully removed by Contractor in such a manner as will result in a minimum of caving, lateral movement, or flowing of the soil.

5. Materials:

5.1 Bedding:

5.1.1 Pipe bedding material shall conform to the requirements of Section 200.03.02, Class A Backfill, of the Standard Specifications.

5.1.2 Bedding shall be placed in accordance with Section 305.08, Bedding, of the Standard Specifications.

5.2 Backfill:

5.2.1 Trench backfill shall conform to the requirements of the Standard Specifications, Section 200.03.06, Class E Backfill, unless otherwise specified.

5.2.2 Trench backfill shall be placed and compacted in accordance with Section 305, Trench Excavation and Backfill, of the Standard Specifications.

5.2.3 Backfill for any structure shall be Crushed Gravel Base material, Type 2, Class B, Aggregate Base conforming to the requirements of Section 200.01.03 of the Standard Specifications. No backfill

material shall be deposited against concrete structures until the concrete has developed a minimum strength of 3,000 psi.

- 5.2.4 If site excavated material meets the requirements for Class "E" Backfill but exceeds optimum moisture content, Contractor shall take whatever measures are necessary to dry the material to a compactable moisture content. No additional compensation shall be allowed for such measures. If site excavated material does not meet "Class E Backfill" requirements in accordance with the Standard Specifications, Contractor may be directed by Construction Manager to remove and dispose of the unsuitable material to an approved disposal location and import acceptable material.

5.3 Pavement Structure:

- 5.3.1 Defined as that section from the top of the backfill to the road wearing surface. This section shall consist of Crushed Gravel Base material, Type 2, Class B, aggregate base conforming to the requirements of Section 200.01.03 of the Standard Specifications, compacted to 95% maximum dry density overlaid with asphalt concrete at a depth to match contiguous pavement, but not less than that specified in roadway sections. Refer to the Permanent Pavement Patch Detail on the drawings, and if applicable, also refer to the Patching Details for Work within NDOT Right-of-Way.

6. Construction:

6.1 Maximum Length of Open Trench:

- 6.1.1 Except by permission of Construction Manager, the maximum length of open trench where prefabricated pipe is used shall be five hundred (500) feet, or the distance necessary to accommodate the amount of pipe installed in a single day, whichever is the greater.

6.2 Control of Water:

- 6.2.1 When water is encountered, Contractor shall furnish, install, maintain and operate all necessary machinery, appliances, and equipment to keep excavations free from water until the placing of the bedding material, laying and jointing of the pipe, pouring of concrete, and placing of the backfill material has been completed, inspected, and approved and all danger of flotation and other damages is removed. Groundwater pumped from the trench shall be disposed of in such a manner as will not cause injury to public or private property, or constitute a nuisance or menace to the public, and shall be subject to the prior approval of Construction Manager and all regulatory requirements of the State of Nevada. If well points are used for dewatering, they shall be removed or abandoned according to State of Nevada regulations.

6.3 Special Foundation Treatment:

- 6.3.1 Whenever the bottom of the trench is soft, yielding, or in the opinion of Construction Manager otherwise unsuitable as a foundation for the pipe, the unsuitable material shall be removed to a depth approved by Construction Manager and replaced with suitable material approved by Construction Manager. Payment for this work will be made only if the bottom of the trench has become unstable due to circumstances beyond the control of Contractor. Payment for this work will be made as specified in subsection 6.4 Modification Procedures of the General Conditions unless otherwise provided for in these Contract documents.

6.4 Restoration of Roadway Surfaces:

- 6.4.1 All road shoulders and pavement which are broken or damaged due to Contractor's operations shall be reconstructed by Contractor at no additional cost to Carson City. Reconstruction shall be subject to the approval of Construction Manager.

6.5 Repairs Required by Trench Settlement:

6.5.1 If, at any time during a one (1) year period from the date of final acceptance of the project, there is any settlement of the trenches requiring repairs to be made, or should any other defect appear in the system due to negligence or carelessness on the part of Contractor, Carson City will notify Contractor to immediately make such repairs as may be deemed necessary at Contractor's expense.

6.6 Surplus Material:

6.6.1 All surplus material shall be disposed of off site in accordance with applicable ordinances and environmental requirements. Contractor shall be responsible for ultimate disposal of surplus material. He shall also include in his bid the cost for disposal, in accordance with City, State, and Federal environmental laws, of all Asbestos Cement Pipe removed during construction.

END OF DOCUMENT 2001

Document No. 2002 WATER SERVICE CONNECTIONS (6/9/20)**1. Scope:**

1.1 The work to be done under this Section consists of furnishing all labor, equipment, materials, supplies and incidentals necessary for installation of water service connections, and fire service connections.

2. Materials:

2.1 All materials must be NSF 61 and NSF 372 certified

2.2 Service Connection Size:

2.2.1 The size of service connections shall be as shown on the construction drawings. All components of a service connection shall be the same size as the nominal designation of the service connection pipe; i.e., a one (1) inch connection will consist of a one (1) inch service saddle, and a one (1) inch corporation stop, unless otherwise shown on the drawings.

2.2.2 When replacing an existing service connection, if the existing service size encountered is larger than the existing service shown on the drawings, and the drawings do not indicate to replace to the larger size, the service shall be replaced to match the existing service. Contractor shall be compensated for the increase in size.

2.2.3 Water services 2 inches or less shall be CTS, PE C901 tubing; water services 3 inches or greater shall be 4 inch minimum diameter PVC C900, DR 18 or as specified on the plans.

2.3 Service Saddles:

2.3.1 Service Saddles shall be manufactured specifically for the type and size of pipe upon which they are being used. The Service Saddle bodies shall be stainless steel or dipped fusion bonded epoxy coated ductile iron.

2.3.2 The bands (straps), nuts, and bolts shall be of 18-8 stainless steel. The bands of D.I. saddles shall be two (2) inch wide. One band shall be supplied for up to one (1) inch service sizes and two (2) for over one (1) inch. The gasket shall be constructed of Buna-N or Neoprene. The inlet threads shall be AWWA I.P. Thread.

2.4 Corporation and Curb Stops:

2.4.1 Corporation stops shall be constructed of brass and have AWWA I.P. Threads inlet and outlets suitable for flared connections to PE pipe. Corporation and curb stops shall be manufactured by Ford, Mueller or approved equal and be NSF 372 certified. Curb stops shall be the inverted key type, constructed of brass.

3. Workmanship:

3.1 General:

3.1.1 Contractor shall install the water service; make all connections as required to the main, connection to the new meter service, and connection between the new meter and the building supply line or irrigation supply line as indicated on the drawings.

3.2 Installation:

3.2.1 Prior to installing the service saddle or tapping sleeve, remove all dirt or other foreign matter that may impair the quality of the completed connection. Then place service saddle or tapping

sleeve at the desired location but not within eighteen inches (18") of any fitting, coupling, valve, bend, or end of pipe. Tighten as per manufacturer's recommendation.

3.2.2 Tubing shall be cut with square ends, reamed and flared with the proper size flaring tool, cleaned, and made up tightly. Care shall be taken to prevent the tube from kinking or buckling on short radius bends. Kinked or buckled sections of tube shall be cut out and the tube spliced with the proper brass fittings, at Contractor's expense. All fittings, including reducers, shall be brass. Service line splices may not be used in locations identified as "Areas of Special Construction."

3.2.3 Connections between the new service, building supply line or irrigation supply line, and existing service or supply lines shall be neat and watertight with adequate pipe to prevent stress at joints.

3.3 Existing Meter Relocations:

3.3.1 Contractor shall, ONLY in the presence of the Carson City Inspector, remove individual meters from the existing pit setter or meter set, and immediately relocate the meter to the new pit setter or meter set. Domestic meters shall be relocated so that they serve the same domestic building supply line as before the relocation. Irrigation meters shall be relocated so that they serve the same irrigation supply line as before the relocation.

3.4 New Meter Installations:

3.4.1 Contractor shall obtain from Carson City a no cost Permit for a new meter installation. Upon completion of the water service installation and acceptance of all testing and inspection of the new water service and any applicable water main, Contractor shall submit a completed "Utility Billing Water/Sewer Service Application" to Construction Manager. Carson City will then install the new meter.

END OF DOCUMENT 2002

Document No. 2003 POLYETHYLENE TUBING (12/24/2020)**1. General:**

1.1 This section covers polyethylene tubing which shall be furnished and installed complete and in place with all jointing materials, fittings and other appurtenances as shown on the Plans or as otherwise required for a complete installation.

2. Materials:

2.1 Tubing:

2.1.1 Polyethylene tubing shall conform to NSF Standard No. 14, AWWA Standard C901, and to the specifications of ASTM D 2737. Polyethylene tubing shall be copper tubing size (CTS), pressure class 200, have a dimension ratio (DR) of not more than 9.0, and shall be made with materials designated PE3608 by the Standard PE Code.

2.1.2 All repairs or connections to new or existing P.E., copper or galvanized water service lines, "to 2", shall be MUELLER CTS 110 COMPRESSION TYPE FITTINGS OR APPROVED EQUAL.

2.2 Fittings:

2.2.1 Fittings shall meet the requirement set forth in AWWA C901 and shall be Flare-Nut type.

3. Installation:

3.1 Polyethylene tubing shall be installed in accordance with the manufacturer's recommendations and in accordance with AWWA C901.

END OF DOCUMENT 2003

DOCUMENT No. 2004 TAPPING SLEEVES AND SERVICE SADDLES (3/30/21)**1. General:**

- 1.1. This section specifies tapping sleeves (For four (4) inch pipe or larger) and service saddles (For pipe sizes less than four (4) inches) to be installed for hot tapping of potable water mains. **ALL HOT TAPS GREATER THAN TWO INCHES (2") PERFORMED ON FOUR INCH (4") OR GREATER POTABLE WATER MAINS ARE TO BE PERFORMED BY CARSON CITY PUBLIC WORKS DEPARTMENT.**

2. Tapping Sleeves:

- 2.1. Tapping sleeves shall be constructed of the following materials:

ITEM	MATERIAL
Shell & Lugs	Type 304 or 316 Stainless Steel.
Flange	Type 304 or 316 Stainless Steel or high tensile ductile (nodular) iron conforming to ASTM A536-80, Grade 65-45-12.
Welds	Fully passivated for corrosion resistance.
Bolts	5/8" Diameter, Stainless Steel National Course rolled thread, fluorocarbon coated to prevent galling.
Nuts & Washers	Type 304 or 316 Stainless Steel.
Gasket	Virgin styrene butadiene rubber compounded for water service conforming to ASTM D2000-80MA AAA607 with 360 degree pipe coverage. Working pressure: 150 p.s.i.

3. Service Saddles:

- 3.1. Service saddles shall be constructed of the following materials:

ITEM	MATERIAL
Welds	Fully passivated for corrosion resistance.
Bands & Bolts	5/8" Diameter Type 304 or 316 Stainless Steel National Course rolled thread, fluorocarbon coated to prevent galling.
Nuts & Washers	Type 304 or Type 316 Stainless Steel.
Finish	Approximately twelve (12) mils of fusion applied epoxy coating conforming to AWWA 213-91.

4. Installation:

- 4.1. Tapping sleeves and service saddles shall be located as shown on the plans and installed in accordance with the manufacturer's recommendations. Tapping sleeves 4" and larger shall have a thrust block and the concrete used for thrust blocking shall not prevent access to the bolt assembly. Tapping sleeves and service saddles shall, in all respects, be constructed similar to the Romac brand or approved equal, meeting material requirements specified within this section.
- 4.2. The tapping sleeve shall be pressure tested to the class rating of pipe for a minimum of 5 minutes prior to hot-tap. The pressure tests shall be performed in presence of a Carson City Public Works Department staff member.

- 4.3. Mechanical fittings, joints and appurtenances shall be assembled and installed using a torque measuring or torque-indicating wrench and per AWWA standards. The use of an impact wrench or similar construction method is prohibited.
- 4.4. Contractor shall notify the Construction Manager five (5) working days prior to the performance of any Hot-Taps by Carson City.

END OF DOCUMENT 2004

DOCUMENT No. 2005 POLYVINYL CHLORIDE PIPE (6/9/20)**1. General:**

- 1.1. This section covers pressure water supply polyvinyl chloride pipe which shall be furnished and installed complete with all jointing materials, fittings and other appurtenances shown on the drawings or otherwise required for a complete installation. Contractor shall furnish, install and test pipe, fittings and appurtenances of the dimensions and types and to the lines and grades shown on the drawings and specified herein.

2. Unloading PVC Pipe:

- 2.1. Prolonged exposure to temperatures near freezing make PVC sensitive to impact and extra care shall be taken in handling PVC during cold weather.
- 2.2. PVC pipe may be off-loaded by hand, either by passing over the side or off the truck end. Sliding one (1) length on another is standard practice in unloading PVC pipe, but lengths in the bottom layer shall be lifted off of the rough surface of the truck body to avoid erosion.
- 2.3. Compact shipping units (palletized bundles in a wood frame) are used to ship large orders of pipe. These units can be unloaded by conventional fork lifts.

3. Materials:**3.1. Pressure Pipe:**

- 3.1.1. PVC pressure pipe shall conform to AWWA C900 or C905, as shown on the drawings. Pressure class for C900 or pressure rating for C905 shall be as shown on the drawings and have an outside diameter equivalent to that of cast iron pipe. The standard pipe length shall be twenty (20) feet.
- 3.1.2. PVC pressure piping shall be manufactured by NAPCO; Diamond Plastic Corporation; Northern American Pipe Corporation or Northern Pipe Products. Any other manufacturer shall require a formal substitution request.
- 3.1.3. All PVC pipe and fittings shall be installed within one hundred twenty (120) calendar days from date of manufacture. Contractor shall submit manufacture date to Construction Manager prior to pipe installation. Contractor shall avoid, to the extent possible, prolonged exposure of Polyvinyl Chloride Pipe to sun and/or temperatures near or below freezing.

3.2. Identification Marks:

- 3.2.1. Pipe and couplings shall be clearly and permanently marked with all information required by AWWA C900 and AWWA C905, respectively.

3.3. Testing:

- 3.3.1. All materials shall be sampled and tested in accordance with all requirements of AWWA C900 and AWWA C905, respectively. Pipe not manufactured in the United States shall be tested as required above by an approved testing laboratory within the United States.

3.4. Affidavit of Compliance:

- 3.4.1. The manufacturer shall furnish an affidavit of compliance certifying that all tests have been conducted and that the materials comply with the applicable standards and these

specifications. Test information shall be retained and shall be available if required by Engineer.

3.5. Couplings:

- 3.5.1. Each length of pipe shall be furnished with a coupling consisting of either a PVC sleeve and two (2) sealing rings or an integrally cast bell and one (1) sealing ring designed to hold the pipe in alignment, provide flexibility, separate the ends of the pipe lengths, resist applied earth pressures and provide fluid tightness.

3.6. Rubber Rings:

- 3.6.1. Rubber rings shall conform to ASTM F-477

3.7. Fittings:

- 3.7.1. Fittings shall be PVC, short body gray iron, or ductile iron conforming to ANSI A21.10 (AWWA C153 or C110). Cast iron fittings for pipe twelve (12) and smaller shall be pressure rated for 250 psi. Ductile iron for fittings shall conform to ASTM A536 Grade 80-60-03 or 70-5-05 and fittings for pipe twenty-four (24) inches or smaller shall be pressure rated for 350 psi.

3.8. Joints:

3.8.1. Flanged Joints:

- 3.8.1.1. Flanges shall conform to ANSI B16.1 and shall be 250 psi, flat-faced. Bolts shall be of corrosion-resisting steel conforming to the requirements of ASTM A193, Grade B7. Bolts shall conform to ASTM A194, Grade 2H Heavy Series. The fit shall be free fit (Class 2), except that medium fit (Class 3) shall be provided in holes tapped for studs. Bolts and nuts used for submerged service shall be made from Type 304 stainless steel and shall conform in design to the above specifications.
- 3.8.1.2. Studs and bolts shall be of such length that no less than 1/4 inch nor more than 1/2-inch will be projected through the nut when drawn tight. All bolt heads and nuts shall be hexagonal except where special shapes are required.
- 3.8.1.3. Gaskets shall conform to ASTM D1330, Grade I, red rubber, full faced, 1/8-inch thick.

3.8.2. Mechanical Joints:

- 3.8.2.1. Mechanical joints shall conform to AWWA C111/A21.11.

3.8.3. Push-on Joints:

- 3.8.3.1. Push-on joints shall conform to AWWA C111/A21.11 except that gaskets shall be neoprene or other synthetic rubber. Push-on joints shall have their ring grooves and rings compatible with the pipe ends. The grooves shall be gauged for tolerance before arriving at the job site and the grooves and interior surfaces of the bell shall be smooth and free from ridges, notches and uneven surfaces.

3.9. Restraints

- 3.9.1. All restraints shall be Romac Industries "600" Series, Diamond Plastics Diamond Lok, RomaGrip, Certa-Lok, or approved equal.

4. Installation:

- 4.1. Installation shall conform to the manufacturer's recommendations except as modified by these specifications and as shown on the drawings.
- 4.2. All laying, jointing and testing for defects and leakage shall be performed in the presence of Engineer and shall be subject to his approval before acceptance. Materials found during construction to have defects will be rejected and Contractor shall promptly remove such defective material from the site.
- 4.3. All pipe, fittings, and associated appurtenances shall be inspected for defects prior to installation. Any defective, damaged or materials shall be repaired or replaced. All foreign matter or dirt shall be removed from the interior of the pipe, fittings, and appurtenances before lowering into position in the trench and shall be kept clean during and after laying. All openings shall be closed with watertight plugs at the end of each day's operation or whenever the openings are left unattended. The use of burlap, wood, or other similar temporary plugs will not be permitted.

5. Trenching, Bedding and Backfill:

- 5.1. Requirements for trenching, bedding and backfill shall be as specified; as required by applicable permits and regulations; and as required by applicable safety codes.
- 5.2. Pipe shall be laid on a shaped trench foundation or shaped bedding as required and with properly dug bell or coupling holes. Supporting pipe on blocks or mounds of earth or bedding material will not be permitted.

6. Handling and Stockpiling:

- 6.1. Pipe, fittings and accessories shall be handled in a manner that will insure installation in a sound, undamaged condition. Equipment, tools and methods used in unloading, reloading, hauling and laying pipe and fittings shall be such that the pipe and fittings are not damaged. Hooks inserted in ends of pipe shall have broad, well-padded contact surfaces. No unpadded hooks or wire brushes shall be permitted to contact plastic lining. Pipe and fittings in which lining has been broken, split or loosened shall be replaced by and at the expense of Contractor. Where damaged areas are small and readily accessible, Contractor may be permitted to repair the lining in accordance with the manufacturer's instructions. Store pipe on a flat surface so as to support the barrel evenly. Store random lengths separately where they will be readily available. Individual lengths of pipe should be stocked in piles of no higher than three (3) feet. If pipe is to be stored outside for periods longer than thirty (30) calendar days, the pipe must be covered to protect it from prolonged exposure to the sun's rays. The pipe shall be covered with canvas or another opaque material which shall not be clear plastic sheets. Provisions shall be made for air circulation under the sheet.
- 6.2. Cutting
 - 6.2.1. Cutting and machining of pipe shall be accomplished in accordance with the pipe manufacturer's standard recommendations. Pipe shall not be cut with a cold chisel, flame, standard iron pipe cutter, or any other method that may fracture the pipe, produce ragged, uneven edges or split the pipe end. Cut ends shall be machined smooth to the proper dimensions.

7. Pipe Laying:

- 7.1. The pipe shall be laid to the lines and grades shown on the drawings and specified herein and the sections shall be closely jointed to form a smooth flow line. Immediately before placing each section of pipe in final position, the bedding shall be checked for firmness and uniformity of surface.
- 7.2. The radius of curvature of the trench shall determine the maximum length of pipe section that can be used without exceeding the allowable deflection at a coupling. The deflection at any flexible joint shall not exceed that prescribed by the manufacturer of the pipe. The manufacturer's printed installation guide outlining the radii of curvature that can be negotiated with pipe sections of various lengths shall be followed.
- 7.3. Proper implements, tools, and facilities as recommended by the pipe manufacturer's standard printed installation instructions shall be provided and used by Contractor for safe and efficient execution of the work. All pipe, fittings, valves, and accessories shall be carefully lowered into the trench by means of derrick, ropes, or other suitable equipment in such a manner as to prevent damage to pipe and fittings. Under no circumstances shall pipe or accessories be dropped or dumped into the trench.
- 7.4. The pipe and accessories shall be inspected for defects prior to lowering into the trench. Any defective, damaged or unsound pipe shall be repaired or replaced. All foreign matter or dirt shall be removed from the interior of the pipe before lowering into position in the trench. Pipe shall be kept clean during and after laying. All openings on the pipe line shall be closed with watertight expandable type sewer plugs or test plugs at the end of each day's operation or whenever the pipe openings are left unattended. The use of burlap, wood, or other similar temporary plugs will not be permitted.

8. Distributing Along the Trench:

- 8.1. Pipe should be strung as near the trench as possible, but, if the trench has not been dug, it shall be kept out of the way of the excavator. It shall be protected from blasting, traffic, equipment or other hazards. Where damage as a result of vandalism could occur, only enough pipe for one day's laying shall be strung. The pipe shall be strung so that the bell ends point in the direction that the work is progressing.

9. Jointing:

- 9.1. Each pipe joint shall be joined either with a coupling consisting of a PVC sleeve and two (2) rubber gaskets, or an integral bell with one (1) rubber gasket.
- 9.2. The gasket and the gasket seat inside the collar or bell shall be wiped clean before the gasket is inserted. At this time a thin film of lubricant shall be applied to the gasket and to the outside of the clean pipe end. Lubricant other than that furnished with the pipe shall not be used. The end of the pipe shall be then forced into the collar or bell to complete the joint.
- 9.3. The assembly of the joint shall be made in accordance with the printed recommendations of the manufacturer. This shall be accomplished with an assembly tool if so recommended by the manufacturer, so that the resulting position of the sleeve shall be such that is centered over pipe ends. After assembly of the coupling, the rubber gasket location shall be checked with a suitable gauge. Gaskets for the full circumference of the pipe shall be located at a distance from the coupling or bell end as recommended by the manufacturer of the couplings, if the distance does not fall within required limits, the joint shall be disassembled and reassembled in an acceptable manner.
- 9.4. When pipe laying is not in progress, the open end of the pipe shall be closed by approved means to prevent birds and other animals, dirt, trench water and other sources of pollution or contamination from entering the pipe. Adequate backfill shall be deposited on pipe to prevent floating of pipe. Any pipe which has floated shall be removed from the trench, cleaned, and relaid

in an acceptable manner. No pipe shall be laid when, in the opinion of Engineer, the trench conditions or weather are unsuitable for such work.

10. Installation of Fittings:

- 10.1. Fittings shall be installed utilizing standard installation procedures. Fittings shall be lowered into trench by means of rope, cable, chain, or other acceptable means without damage to the fittings. Cable, rope, or other devices used for lowering fitting into trench, shall be attached around exterior of fitting for handling. Under no circumstances shall the cable, rope or other device be attached through the fitting's interior for handling. Fittings shall be carefully connected to pipe or other facility, and joint shall be checked to insure a sound and proper joint.
- 10.2. Mechanical fittings, joints and appurtenances shall be assembled and installed using a torque measuring or torque-indicating wrench and per AWWA standards. The use of an impact wrench or similar construction method is prohibited.

11. Thrust Blocking:

- 11.1. Concrete thrust blocking shall be provided at all tees, elbows, wyes, caps, valves, hydrants, reducers, and other points of unbalanced thrust. Thrust blocking shall be poured so the thrust surface bears against undisturbed soil. Thrust blocking shall be as specified in Document No. 2013 Thrust Blocks of these Technical Specifications.

END OF DOCUMENT 2005

Document No. 2006 DUCTILE IRON PIPE (6/22/04)**1. General:**

1.1 Ductile iron pipe shall be installed in the locations and of the sizes shown on the drawings.

2. Materials:

2.1 Pipe: Unless otherwise stated, all ductile iron pipe shall be Pressure Class 150, or greater, conforming to the requirements set forth in AWWA C151.

2.2 Fittings: Ductile iron fittings shall meet the requirements set forth in AWWA C110.

2.3 Joints:

2.3.1 Push-on and mechanical joint rubber gasket joints shall meet the requirements of AWWA C111.

2.3.2 When the type of joints indicated on the drawings are flanged, flanges shall meet the requirements of AWWA C207.

3. Installation:

3.1 Ductile iron pipe shall be installed in accordance with the manufacturer's recommendations and in accordance with AWWA C600.

4. Linings and Coatings:

4.1 All ductile iron pipe and fittings shall be cement-mortar lined in accordance with AWWA C104.

4.2 The exterior of exposed ductile iron piping including valves, etc., shall be painted as specified in Document 7001 Painting of these Technical Specifications. Surface preparation shall be in accordance with the manufacturer's recommendations.

4.3 The exterior of buried ductile iron pipe including flanged joints, tees, etc., shall be wrapped and sealed with (2) two layers, of a minimum thickness each layer, 8 mil polyethylene film per AWWA C105.

END OF DOCUMENT 2006

DOCUMENT No. 2009 GATE VALVES (6/15/15)**1. General:**

- 1.1. This section specifies underground gate valves and appurtenances to be installed on water or reclaimed water mains where shown on the drawings in accordance with the Carson City Standard Details C-3.1.4 - Gate Valve and C-3.1.6 - Valve Box & Lid.
- 1.2. Gate Valves shall be American AVK, American Flow Control, Clow, M & H, Mueller or equal resilient-seated gate valves conforming to AWWA C509 or C515 and shall be UL listed and FM approved.

2. Design:

- 2.1. Valve shall be non-rising stem (NRS) wedge type resilient-seated with O-Ring stem seals and low zinc copper alloy or stainless steel stem, equipped with a two (2) inch standard operating nut. Ends shall be designed for direct connection to the type of pipe or fitting which the valve is adjoined to, or as shown on the drawings. Valves shall open when turned counterclockwise.
- 2.2. The minimum design working pressure for valves twelve (12) inches in diameter and smaller shall be 200 psig and shall be 150 psig for larger valves. Valves shall be designed to have full port opening for unrestricted flow. The valve waterway shall be smooth and shall have no depressions or cavities in seat area.

3. Valve Boxes:

- 3.1. Concrete valve boxes with cast iron covers shall be provided for all buried valves. Valve boxes shall be provided with colored PVC (schedule 40 minimum) extension sleeves. Valve box covers shall be labeled, with pick hole access. Valve boxes and covers shall be Christy G5 traffic valve box with G5C lid, or approved equal.

4. Installation:

- 4.1. Valves shall be installed as shown on the drawings with support block and valve box and riser. Valves shall be installed with valve box centered over operating nut and plumb.
- 4.2. All valves shall be operated by Contractor prior to and following installation to assure free movement, proper seating and full-port opening.
- 4.3. Mechanical fittings, joints and appurtenances shall be assembled and installed using a torque measuring or torque-indicating wrench and per AWWA standards. The use of an impact wrench or similar construction method is prohibited.

5. Protective Coatings:

- 5.1. Valves shall be provided with a shop-applied fusion-bonded epoxy coating on interior and exterior surfaces conforming to AWWA C550.
- 5.2. Any damage to the protective coating including scratches, nicks, etc. shall be repaired prior to the installation using an approved coating conforming to AWWA C550.

6. Valve Identification:

- 6.1. All valves located outside the pavement structure shall be identified with a Utility Marker. Water

valve markers shall be blue Carsonite High Performance Utility Marker (CRM - 306608), 5'-6" with blue valve decal (CWW 116) or approved equal. Marker shall be installed no more than 5 feet from the valve measured perpendicular to the water main or roadway.

END OF DOCUMENT 2009

Document No. 2012 FIRE HYDRANTS (8/14/14)

1. Scope:

- 1.1. The work to be done under this section consists of furnishing all plant, labor, equipment, materials, supplies and incidentals and performing all work required for furnishing and installing the fire hydrant assemblies, complete.

2. Trench Excavation and Backfill:

- 2.1. Trench excavation and backfill shall conform to the requirements as specified in Document No. 2001 Staking, Excavation, Backfilling and Compacting for Water Lines of these Technical Specifications.

3. Pipe:

- 3.1. The water pipe to be installed from the water main to the fire hydrant shall be the same type of pipe utilized for construction of the water system improvements.

4. Valves and Valve Boxes:

- 4.1. Valve and valve boxes for fire hydrants shall conform to the requirements as specified in Document No. 2009 Gate Valves of these Technical Specifications.

5. References:

- 5.1. References herein are made to the standards, tests, methods, and specifications of research and technical organizations as follows:

ITEM	STANDARD SPECIFICATION, TEST OR METHOD DESIGNATION
Fire Hydrants	AWWA C502

6. Materials:

- 6.1. Fire hydrant shall conform to the requirements of Section 307 of the Standard Specifications and this section of these Technical Specifications.

- 6.2. All hydrants shall be as follows:

- A. The size of a valve opening shall be five and one quarter inch (5¼") with two (2) two and one half inch (2½") N.S.T. (National Standard Thread) nozzles; one Harrington HIHS five inch (5") integral hydrant Storz, or approved equal, with blind cap & cable. A yellow and black Calpico (or approved equal) "Out of Service" indicator shall be installed on one of the 2½" nozzles until the hydrant is in service and removal of the "Out of Service" indicator is authorized by the Construction Manager. The inlet connections shall be a six inch (6") size and the operating nut shall be a one and one half inch (1½") pentagon, open to the left.
- B. Fire hydrants shall be of the compression type with the valve closing with the pressure. All hydrants shall be in accordance with the latest specifications of the American Water Works Association. All parts entering into the manufacture will be interchangeable. All fire hydrants

shall be non-freezing and self-draining.

- C. The top of the hydrant shall be constructed so that the operating threads are immersed in an oil reservoir. The oil reservoir shall be sealed at both top and bottom by "O" rings to prevent oil or water leakage. The bonnet assembly shall be unitized and flanged to the tip barrel for easy removal as one unit without disassembly or loss of lubricant in the field. The main valve opening shall be controlled with a positive stop built into the bonnet assembly. The hydrant shall be of the safety ground flange design at a point two inches (2") above ground line. In the event of a traffic accident, the barrel will not become broken, nor the main operating stem become broken or bent, which parts shall be easily and quickly replaced. The safety flange design shall be constructed to ensure more accurate control of impact stresses and eliminate the uncertainties of frangible bolt and lug designs such as corrosive and varying bolt strength. The drain valves shall be bronzed to bronzed seat with quadring and shall be positively operated by main operating nut. The design shall permit full three hundred and sixty (360) degree rotation in any desired position location & placement of the hydrant shall be in accordance with all Fire Department regulations. Hydrants shall be constructed for lengthening or making repairs without the necessity of digging. Hydrant barrel shall be centrifugally cast ductile iron.
- D. Hydrants shall be subjected, after assembly to two (2) tests under a hydraulic pressure of 300 pounds per square inch. One (1) test shall be made with the whole interior of the hydrant under pressure; and another with the main valve closed and the foot piece under pressure from the inlet side. Under the above test procedure, there shall be no leakage through the main valve, drain valve, or stuffing box, or through the castings or the joints of the assembled hydrant. Leakage or other imperfections found in either test shall be corrected before the hydrant is accepted. The test is not required for any existing fire hydrants.

7 Workmanship:

- 7.1 Fire Hydrant installation shall conform to the requirements of Subsection 307.09, "Setting Hydrants", of the Standard Specifications for Public Works Construction.
- 7.2 Contractor shall notice, coordinate and cooperate with the Fire Department before any shut-down of a fire hydrant or water line is to be made. Contractor shall keep the Fire Department fully informed on any emergency repairs being made which affect the water distribution system.
- 7.3 All buried metallic materials of the fire hydrant assemblies shall be encased in polyethylene (plastic wrap) in accordance with the requirements of AWWA C105.
- 7.4 Before the fire hydrant assembly is backfilled, Contractor shall contact the inspector for an inspection review using the Carson City Public Works Department "Inspection for Fire Hydrants" form. The inspection shall be performed in the presents of Contractor and the inspector. Also included in the inspection will be a check of the street valve to assure full open position.

END OF DOCUMENT 2012

DOCUMENT No. 2013 THRUST BLOCKS (8/21/13)**1. General:**

- 1.1. Thrust blocks shall be installed in the locations shown on the Drawings and in general, everywhere a buried pressure conduit changes direction according to Carson City "Standard Details for Public Works Construction".

2. Materials:

- 2.1. Concrete used for thrust blocks shall have a minimum compressive strength of 4000 psi at twenty-eight (28) calendar days when tested in accordance with ASTM.

3. Installation:

- 3.1. Thrust blocks shall be installed such that they bear against the pipe fitting (not the pipe) on one side and against undisturbed earth on the other side.
- 3.2. Thrust block concrete shall not obstruct removal of flange bolts from fittings. Concrete shall be prevented from adhering to the fittings. Either a liquid bond breaker shall be applied to the fitting, or an impervious membrane (plastic, building paper, etc.) shall be used.
- 3.3. The bearing area against the undisturbed soil shall be measured in a vertical plane, perpendicular to the axis of the pipe, or the line bisecting the extensions of the pipes entering a fitting. The bearing area shall be as set forth in the thrust block table in the Drawings.

END OF DOCUMENT 2013

DOCUMENT No. 2014 COUPLINGS, DISMANTLING, AND EXPANSION JOINTS (3/30/21)**1. General:**

- 1.1. Couplings, dismantling and expansions joints shall be installed in the locations and conform to the sizes shown on the Drawings.

2. Materials:

2.1.1. Bolted Couplings:

- 2.1.1.1. Bolted couplings shall have malleable iron followers, steel sleeves, and wedge-type resilient material gaskets. Bolted couplings shall be designed for a working pressure of 150 psi, meet AWWA C219, NSF61 certified, and be Romac 501 series, Hymax, or approved equal. Coupling restraints shall be installed in the locations as shown on and detailed in the Drawings.

2.1.2. Flanged Coupling Adapters:

- 2.1.2.1. Flanged coupling adapters shall have high grade gray iron or steel bodies with malleable or ductile iron followers and wedge-type resilient material coupling gaskets and "O-ring" flange gaskets. Flange coupling adapters shall be designed for a working pressure of 150 psi, meet AWWA C219, be NSF61 certified and be Romac 501 series, Hymax, or approved equal.

2.1.3. Restrained Couplings:

- 2.1.3.1. When noted on the Drawings, bolted couplings or flanged coupling adapters shall be restrained with couplings equipped with anchor boss and anchor bolts. These couplings shall be installed in strict conformance to the Drawings and manufacturer's recommendations. Restrained couplings for PVC pipe shall restrain by contacting the circumference of the pipe. Restraining devices which point load PVC pipe, in the opinion of Construction Manager, shall not be considered or allowed.

2.1.4. Expansion Joints:

- 2.1.4.1. Expansion joints shall be installed where indicated on the Drawings. Expansion joints shall have a neoprene cover and a teflon tube and be equipped with thrust control rods. Expansion joints shall be Holz Series 980 molded expansion joints or equal.

2.1.5. Dismantling Joints:

- 2.1.5.1. Dismantling joints shall have high grade gray iron or steel bodies with malleable or ductile iron followers and wedge-type resilient material coupling gaskets and O-ring flange gaskets. Dismantling joints shall be as manufactured by Romac Series DJ 400, or approved equal rated to 150 psi and NSF61 certified.

3. Installation:

- 3.1. Couplings, dismantling and expansion joints shall be installed in accordance with the manufacturer's recommendations.
- 3.2. Mechanical fittings, joints and appurtenances shall be assembled and installed using a torque measuring or torque-indicating wrench and per AWWA standards. The use of an impact wrench or similar construction method is prohibited.

END OF DOCUMENT 2014

DOCUMENT No. 2015.1 PVC WATER MAIN HYDROSTATIC TESTING (03/06/20)**1. General:**

- 1.1. This specification supersedes Section 336.03.08, Pressure Line - Pressure and Leakage Tests, of the Standard Specifications. Water mains shall be pressure tested in accordance with AWWA C605 and all the following requirements.

2. Test Pressure:

- 2.1. Test pressure for water distribution pipe shall be per AWWA C605 or 150 psi, whichever is greater.

3. Procedure:

- 3.1. Pressure and leakage tests shall be performed at the same time. The total testing time for each section of a new main installed shall be a minimum of two (2) hours.
- 3.2. When pipeline installation, testing and backfilling can be accomplished in the same day, backfill only enough to prevent lifting of the pipe prior to filling with water and field testing. When conditions require that trenches be backfilled immediately after the pipe has been laid, testing shall be conducted prior to placement of permanent surface.
- 3.3. After the main has been laid it shall be filled with water for a minimum of twenty-four (24) hours before being subjected to the hydrostatic pressure test. Each section of pipeline shall be filled slowly with water and all air expelled by means of taps at points of highest elevation.
- 3.4. The specified test pressure shall be applied by means of a pump connected to the pipe in a manner satisfactory to Engineer. The test pressure shall be maintained for the specified time during which all exposed pipe, couplings, fittings, valves, and hydrants shall be examined carefully.
- 3.5. The pump supply reservoir shall be a clean, new container which has been disinfected under the supervision of the Inspector. The container shall be round and straight sided to facilitate accurate volume calculations. Volume of the pump supply reservoir shall be between 5 and 25 gallons. Only potable water shall be used for the test.
- 3.6. All cracked or defective elements shall be removed and replaced and the test repeated until all visible leakage has been stopped and the requirements as specified in Subsection 4 Allowable Leakage have been met.

4. Allowable Leakage:

- 4.1. No pipe installation will be accepted if the leakage for the section of the line that is tested is greater than that determined by the following formula:

$$Q = \frac{LD\sqrt{P}}{148,000}$$

Where:

Q = Allowable Leakage (gallons per hour)

L = Length of Pipe Tested (feet).

D = Nominal diameter of pipe (inches).

P = Test pressure (psig).

- 4.2. If the test leakage in any section is greater than permitted, Contractor shall, at his own expense, locate and repair the defective materials until the leakage is within the permitted allowance. All visible leaks shall be repaired regardless of the amount or rate of leakage.

5. Measurement of Leakage:

- 5.1. Leakage shall be defined as the quantity of water that must be supplied into the newly laid pipe, or any valved section thereof, to maintain pressure within five (5) psi (0.35 Bar) of the specified test pressure after the air in the pipeline has been expelled and the pipe filled with water. The quantity of water supplied to maintain pressure shall be quantified by means of a positive displacement measurement from a reservoir of known volume. Leakage shall not be measured by a drop in pressure in a test section over a period of time.

END OF DOCUMENT 2015.1

DOCUMENT No. 2016 WATER MAIN DISINFECTING (7/13/2020)**1. General:**

- 1.1. Disinfection of water mains shall be accomplished in accordance with all the requirements set forth in AWWA C651-05 unless otherwise specified herein.
- 1.2. Precautions shall be taken to protect pipe interiors, fittings, and valves against contamination. Pipe delivered for construction shall be stored so as to minimize entrance of foreign material. When pipe laying is not in progress, for example, at the close of the day's work or during breaks or rest periods all openings in the pipeline shall be closed by water tight plugs. Joints of all pipe in the trench shall be completed before work is stopped. If water accumulates in the trench, the plugs shall remain in place until the trench is dry.
- 1.3. If dirt, that in the opinion of Engineer, will not be removed by flushing enters the pipe, the interior of the pipe shall be cleaned and swabbed as necessary with a 5% hypochlorite disinfecting solution.
- 1.4. No contaminated material capable of supporting growth of micro-organisms shall be used for sealing joints. Packing material shall be handled in such a manner as to avoid contamination.
- 1.5. Yarning or packing material shall consist of molded or tubular rubber rings or rope of treated paper, or other approved materials. Materials such as jute or hemp shall not be used. Packing Materials shall be handled in a manner which prevents contamination.
- 1.6. The lubricant used in the installation of sealing gaskets shall be suitable for use in potable water. It shall be delivered to the job in enclosed containers and shall be kept clean.

2. Procedure:**2.1. General:**

- 2.1.1. Unless otherwise stated herein, the tablet method of disinfection shall be used. Tablets shall be calcium hypochlorite tablets, conform to ANSI/AWWA B300, and must contain approximately 65 percent available chlorine by weight. Calcium hypochlorite tablets intended for pool use shall not be used. However, since this method requires scrupulous cleanliness to be effective, it will not be allowed if trench water or foreign material has entered the main. If the pipe, in Engineer's opinion is not in a clean condition another method prescribed in AWWA C651 -05 shall be used for disinfection even if the tablets have already been installed.

2.2. Placement of Tablets:

- 2.2.1. Tablets shall be placed in each section of pipe and also in hydrants, hydrant branches, and other appurtenances. They shall be attached by an adhesive, except for the tablets placed in hydrants and in the joints between the pipe sections. All the tablets within the main must be at the top of the main. If the tablets are fastened before the pipe section is placed in the trench, their position shall be marked on the section to assure that there will be no rotation.
- 2.2.2. Disinfection tablets shall be by an adhesive meeting the requirements of NSF/ANSI 61. There shall be no adhesive on the tablet except on the broad side next to the surface to which the tablet is attached.

2.3. Filling and Contact:

- 2.3.1. When installation has been completed, the main shall be filled with water at a velocity of less than one (1) foot per second. Precautions shall be taken to ensure that air pockets are eliminated. This water shall remain in the pipe for at least twenty-four (24) hours. If the water temperature is less than 41°F, the water shall remain in the pipe for at least 48 hr. Valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the line supplying the water.

2.4. Dosage:

- 2.4.1. The number of hypochlorite tablets to be attached to the inside of each section of pipe shall be as shown in the following Table:

Number of 5-g calcium hypochlorite tablets required for dose of 25 mg/L*

Pipe Diameter (inches)	Length of Pipe Section (feet)				
	13 or less	18	20	30	40
4	1	1	1	1	1
6	1	1	1	2	2
8	1	2	2	3	4
10	2	3	3	4	5
12	3	4	4	6	7
14	4	5	5	8	10
16	4	6	7	10	13
18	6	7	8	12	16
20	7	9	10	15	20
24	9	13	14	21	28

*Based on 3.25-g available chlorine per tablet; any portion of tablet rounded to next higher integer

Table based on Table 2 and Part 4.4.2.2 of AWWA C651-05. For other pipe sizes and lengths, refer to AWWA C651-05

2.5. Final Flushing:

- 2.5.1. After the applicable retention period, the heavily chlorinated water shall be flushed from the main until the chlorine concentration in the water leaving the main is no higher than that generally prevailing in the system, or less than one (1) mg/l. Contractor is responsible for disposal of chlorinated flushing water. No additional payment will be made for disposal of flushing water. Chlorine residual determination shall be made to ascertain that the heavily chlorinated water has been removed from the pipeline.
- 2.5.2. Disposal of heavily chlorinated water is to be coordinated with the Bureau of Water Pollution Control (775) 687-9418

2.6. Bacteriologic Tests:

- 2.6.1. After final flushing and before the water main is placed in service, two consecutive sets of acceptable samples, taken 24 hours apart, shall be collected from the new main. At least one set of samples shall be collected from every 1,200 feet of new water main, plus one set from the end of the line and one set from each branch and submitted by Contractor to the

Carson City Wastewater Reclamation Plant Laboratory for testing for bacteriologic quality and shall show the absence of coliform organisms.

2.7. Repetition of Procedure:

- 2.7.1. If the initial disinfection fails to produce satisfactory samples, disinfection shall be repeated until satisfactory samples have been obtained at Contractor's expense. The tablet method cannot be used in these subsequent disinfections.

END OF DOCUMENT 2016

**DOCUMENT No. 2017 UNDERGROUND MARKING TAPE AND TRACER WIRE – WATER
(2/10/20)**

1. General:

- 1.1. Underground marking tape shall be installed above all buried water pipelines.

2. Materials:

- 2.1. Tape shall be blue in color and shall be three (3) inches wide by 4 mil thick and shall bear large printing denoting, "Buried Water Line Below", or equivalent wording.
- 2.2. Tracer wire shall be 12 gauge solid copper wire with 30 mil HDPE insulation. Wire shall be taped every 10 (ten) feet to all water mains, water services, air releases etc. and shall remain continuous and conductive throughout all components of the water system. All splices, as from a service wire to a main wire, shall be connected by wire nuts, sealed with Aqua Seal or silicon filled and double wrapped with U/L listed electrical tape.

3. Installation:

- 3.1. Underground marking tape shall be installed according to the manufacturer's instructions and as shown on the Drawings.
- 3.2. Marking tape shall be continuous from valve to valve. Tape shall be placed flat with the writing facing up and shall be laid twelve (12) inches above the top of pipe between the bedding and the trench backfill.
- 3.3. Tracer wire shall be installed as shown on the Drawings.
- 3.4. Tracer wire shall be continuous throughout the entire project, and shall be connected to any existing water tracer wire exposed through the course of the project.

END OF DOCUMENT 2017

DOCUMENT No. 2019 AIR RELEASE, AND AIR AND VACUUM VALVES (8/21/13)**1. General:**

- 1.1. Air release, and air and vacuum valves shall be installed in the locations and shall conform to the types and sizes shown on the Plans.

2. Materials:

- 2.1. Air and vacuum valves shall be designed to allow large quantities of air to escape out the orifice when filling a pipeline and to close water tight when the liquid enters the valve. The air and vacuum valve shall also permit large quantities of air to enter through the orifice when the pipeline is being drained to break the vacuum. The valve shall consist of a body, cover, baffle, float and seat. The baffle will be designed to protect the float from direct contact of the rushing air and water to prevent the float from closing prematurely in the valve. The seat shall be fastened into the valve cover without distortion and shall be easily removed if necessary. The float shall be stainless steel designed to withstand 300 psi or more. The float shall be center guided for positive seating.
- 2.2. Air release valves shall be designed to release accumulated air from a pipe while the pipe is in operation and under pressure. Resilient seats shall be replaceable and provide drop tight shut-off to the full valve operating pressure rating of 150 psi.
- 2.3. The bolts and nipples of the valve must be tar coated for resistance to corrosion. Air release valves shall be "Valmatic" or APCO brand valves, or approved equal. Air and vacuum valves shall be APCO brand, or approved equal.

3. Installation:

- 3.1. Air release, and air and vacuum valves shall be installed in accordance with the manufacturer's recommendations.
- 3.2. Mechanical fittings, joints and appurtenances shall be assembled and installed using a torque measuring or torque-indicating wrench and per AWWA standards. The use of an impact wrench or similar construction method is prohibited.

END OF DOCUMENT 2019

DOCUMENT No. 2025 AC Pipe Connections**February 3, 2020****1. General:**

- 1.1. This specification outlines testing procedures for connecting to asbestos cement pipes. All other appropriate standards including AWWA and OSHA standards shall be followed when working with asbestos cement pipe.

2. Test Procedure:

- 2.1. Prior to putting a main back into service, a water sample shall be taken downstream from and after the the construction has been completed and the system flushed. The water sample shall be analyzed for the presense of asbestos and results submitted to BSDW and the results checked to determine if it meets the State of Nevada Drinking Water Standard for Asbestos. The BSDW will then indicate what steps need to be implemented.

END OF DOCUMENT 2025

Document No. 4005 CONCRETE CURB, GUTTER, WALKS, AND DRIVEWAYS (4/11/07)

1. General:

This section includes any sawcutting and concrete removal, forming, pouring, and finishing curb, gutters, walks, and driveways.

2. Reference Specifications and Standards:

Unless otherwise specified herein, all work shall conform to the Standard Specifications.

3. Materials:

All Portland Cement Concrete, unless otherwise indicated, shall have synthetic fiber-reinforcement (at a minimum of 1 lb/CY) with a coarse aggregate gradation conforming to Size No. 67 in Section 200.05.03 of the Standard Specifications, and shall have a 1 to 4 inch slump and 4 to 7 percent entrained air. The minimum 28-day compressive strength shall be 4000 psi. Cement shall be Type II.

4. Subgrade:

The subgrade shall be prepared as specified in Subsection 302.02 of Standard Specifications.

All subgrade shall be compacted to a relative compaction of not less than ninety (90) percent for a minimum depth of six (6) inches, in accordance with test procedures set forth in ASTM D1557-70, Method C.

5. Dimensions:

Unless specified otherwise, the minimum thickness for concrete walks shall be four (4) inches. All other dimensions shall be as shown on the drawings.

6. Drainage Outlets:

Contractor will be required to provide suitable outlets through new curb for all existing building drains along the line of work.

The fully depressed curb opening at driveway entrances shall be one (1) inch above gutter flow line at the curb face. The top of the fully depressed portion of the curb shall be finished to a transverse 3/4 inch slope toward the gutter.

Where walk is to be constructed across driveways to commercial establishments, the thickness thereof shall be six (6) inches, unless otherwise specified on the drawings. At residential driveways, the thickness of the walk will be four (4) inches unless otherwise specified.

7. Forming:

All forming shall be done in accordance with Subsection 312.06 in Standard Specifications.

7.1 Slip Forms:

At the option of Contractor, and with the approval of Engineer, slip form equipment may be used for the construction of curb and gutter. The slip form equipment shall conform to the requirements in Subsection 312.07 in Standard Specifications.

8. Placement:

Concrete shall be placed for curb, gutters, walks, and driveways as specified in Subsection 312.08 in

Standard Specifications.

9. Joints:

Joints in concrete curb, gutter, and walks shall be designated as expansion joints and weakened plane joints, and shall be constructed as specified by Subsection 312.09 in Standard Specifications.

10. Finishing and Curing:

Finish work and curing shall conform to specifications in Subsection 312.10 and 312.11 in Standard Specifications.

11. Defective Work:

Any new work found to be defective or damaged prior to its acceptance shall be repaired or replaced by Contractor at no expense to Carson City.

12. Removal of Existing Concrete Curb, Walk, Gutters, Cross Gutters, and Driveways:

Concrete shall be removed to neatly sawed edges with saw cuts made to a minimum depth of one and a half (1-1/2) inches. Concrete sidewalk or driveway to be removed shall be neatly sawed in straight lines either parallel to the curb or at right angles to the alignment of the sidewalk. Curb, gutters, sidewalks and driveways shall be removed to the nearest weakened plane joint or, if within four feet (4') of an expansion joint to that expansion joint. No section to be replaced shall be smaller than thirty (30) inches in either length or width. Curb and gutter shall be sawed to a depth of one and one half (1-1/2) inches on a neat line at right angles to the curb face.

All materials removed shall be hauled from the site, at Contractor's expense, to a recognized landfill site approved by Engineer, unless otherwise specified. The construction area shall be left with a neat and finished appearance.

Existing improvements, adjacent property, utilities and other facilities, and trees and plants that are not to be removed shall be protected from injury or damage resulting from Contractor's operations.

13. Backfilling and Cleanup:

Backfilling to the finished surface of the newly constructed improvement must be completed before acceptance of the work.

Upon completion of the work, the surface of the concrete shall be thoroughly cleaned and the site left in a neat and orderly condition.

END OF DOCUMENT 4005

Document No. 4007 ASPHALT CONCRETE PAVEMENT (8/3/16)**1. General:**

- 1.1. Work under this section includes mixing, delivery, placement, trimming and compaction of plantmix asphalt concrete on a prepared aggregate base including tack coats and fog seal.
- 1.2. All work shall be performed in accordance with Sections 316, Tack Coat; 317, Seal coats; and 320, Plantmix Bituminous Pavement, of the Standard Specifications, except as modified herein.
- 1.3. A tack coat of SS-1h asphalt emulsion, diluted 50-50 with water, shall be applied to all vertical asphalt or concrete join surfaces prior to placement of plantmix bituminous pavement. The application rate shall be 0.10 to 0.15 gallons per square yard.
- 1.4. When more than one course of asphalt concrete is placed, the surface of the first course shall be treated with a tack coat of SS-1h asphalt emulsion, diluted 50-50 with water, applied at the rate of 0.05 to 0.10 gallons per square yard.
- 1.5. The asphalt concrete shall be compacted to not less than 95% of its Marshall maximum density when compacted with 50 blows per side. The asphalt concrete roadmix shall be PG 64-28NV plantmix pavement with type 2 aggregate per section 200.02.03 unless otherwise specified in the Special Conditions. Lime shall be added to the mix per section 320.04.03.01 or the aggregates shall be marinated in lime per section 401.03.08. Demonstrating that the bituminous plantmix can attain a minimum dry tensile strength of at least 65 psi and a tensile strength ratio of at least 70% shall not be acceptable to negate the requirement of lime per section 337.04.01 of the Standard Specifications.
- 1.6. A fog seal coat of SS-1h asphalt emulsion, diluted 50-50 with water, shall be applied to all completed asphalt surfaces including milled asphalt surface prior to the asphalt concrete overlay." The fog seal shall be applied at the rate of 0.06-0.08 gallons per square yard. Application shall not commence until at least twenty-four (24) hours after final rolling. The pavement temperature shall be at least 70 degrees F. at the time of application, and the ambient temperature shall be at least 50 degrees F.
- 1.7. Recycled Aggregate Base will not be allowed in any public roadway.

2. Construction:

- 2.1. The following shall be in addition to the requirements contained in Section 320.03.03, Pavers, of the Standard Specifications.

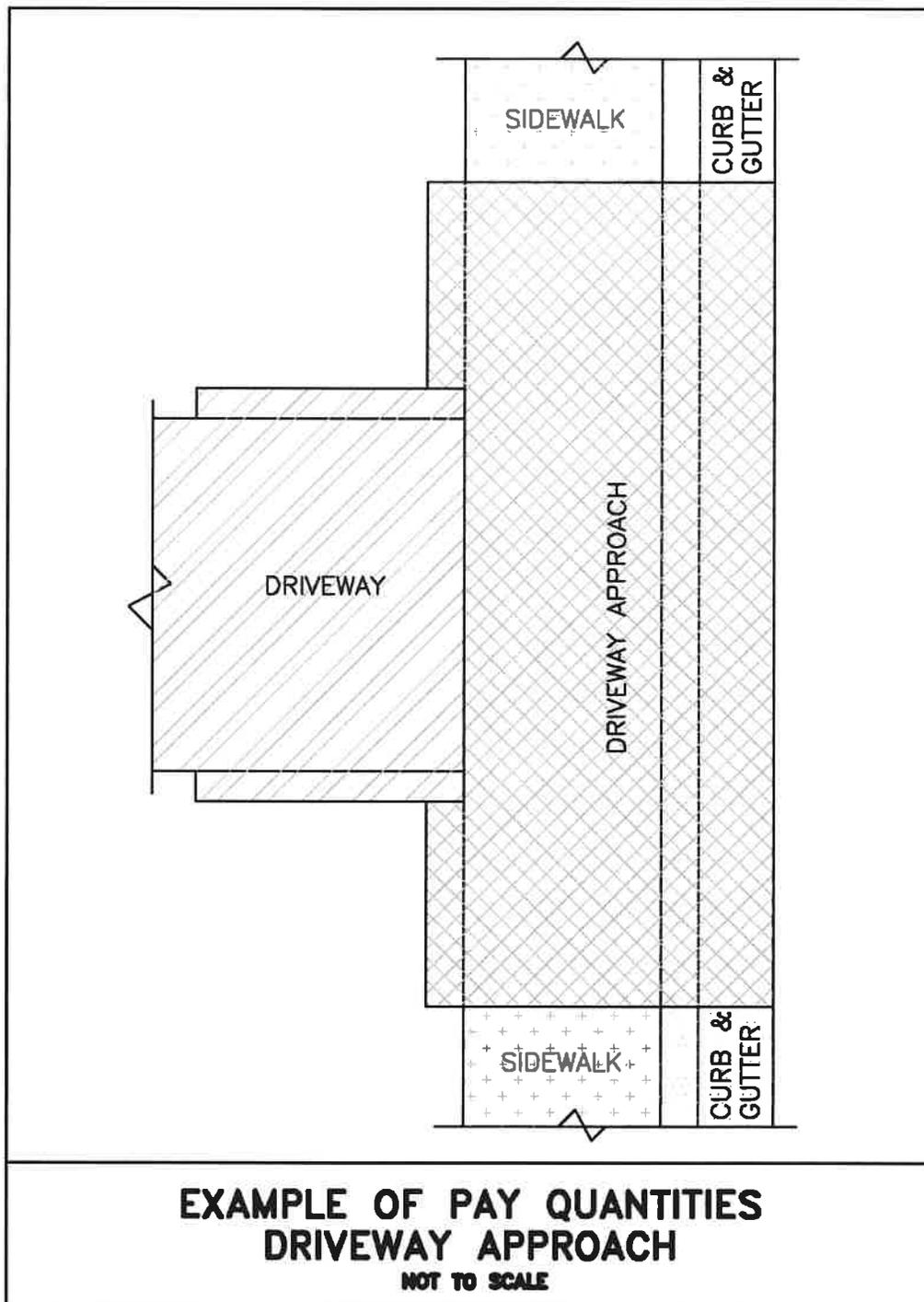
- 2.1.1. Pavers placing the final lift of the plant mix bituminous pavement for any uniform roadway section shall be equipped with an automatic control system capable of operating in conjunction with either a ski type device of not less than 30 feet in length or a taut wire set to grade.
- 2.1.2. Contractor shall furnish all equipment required and shall install all stakes and wire required for the wire system. The automatic system shall be used for construction of the final lift.

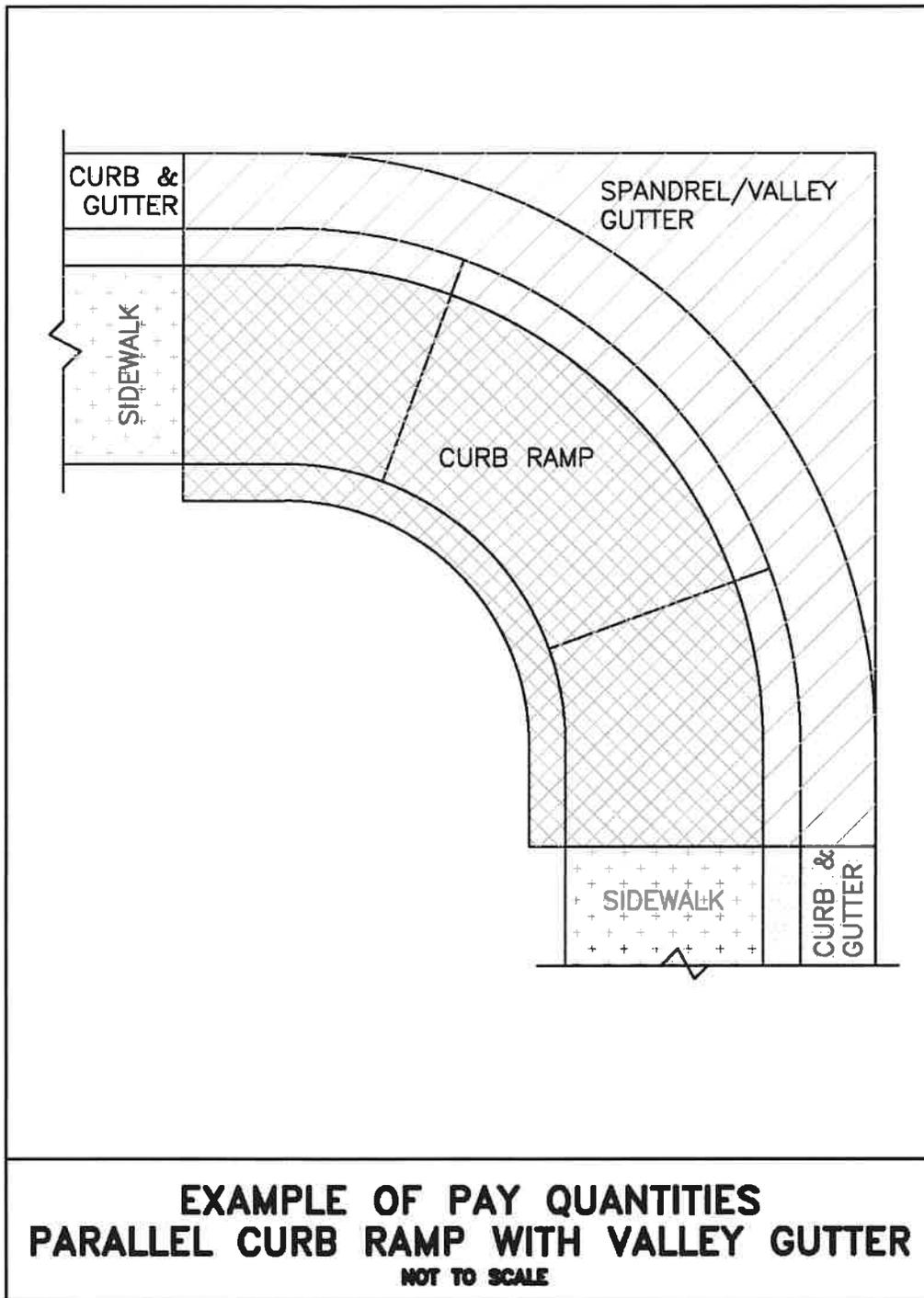
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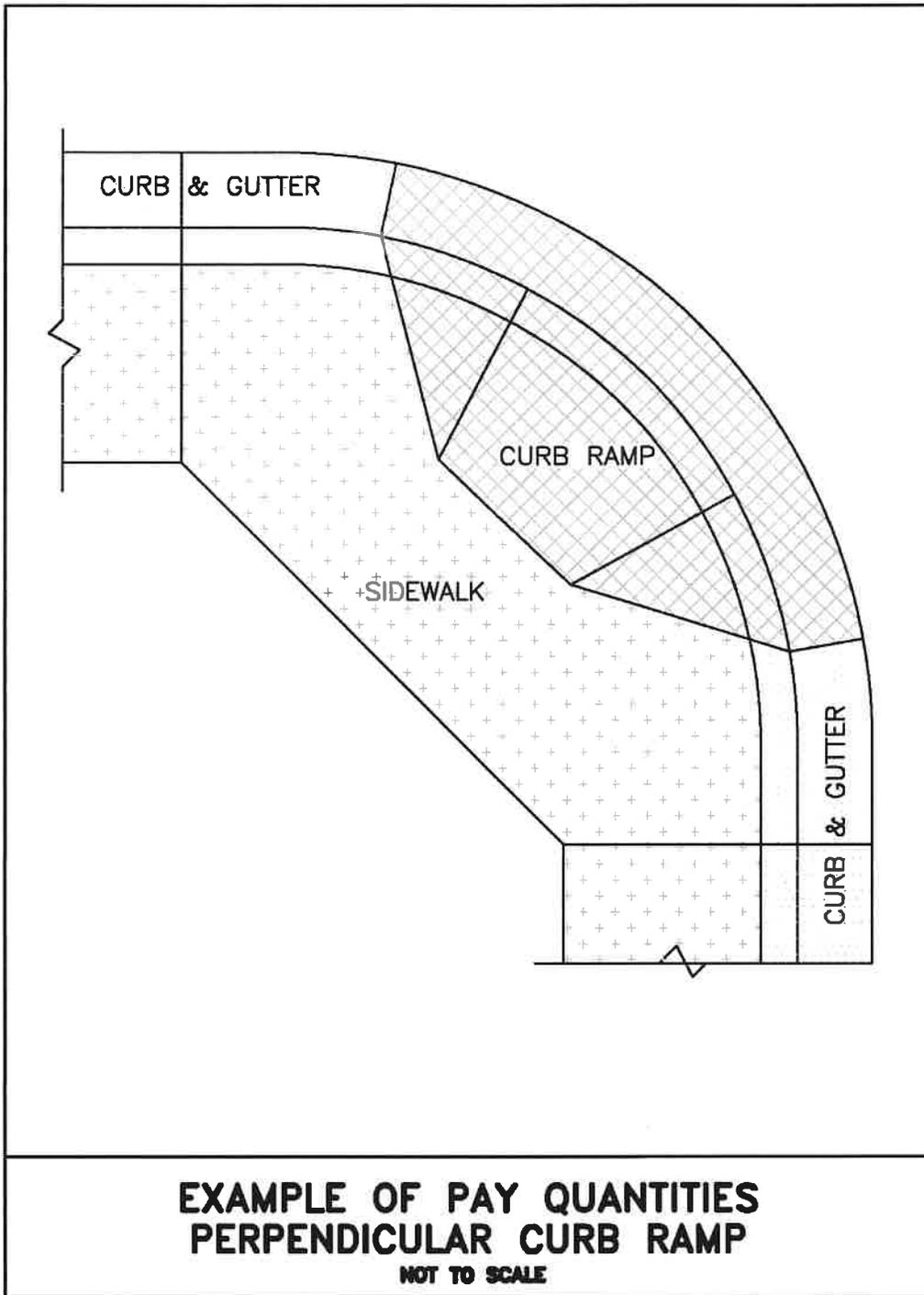
Document No. 4012 Examples of Pay Quantities (6/24/15)**1. General:**

1.1 The following sheets provide examples of how sidewalk, curb ramp, driveways, spandrel, valley gutter, and curb and gutter pay quantities are divided up between the individual bid items. Examples include;

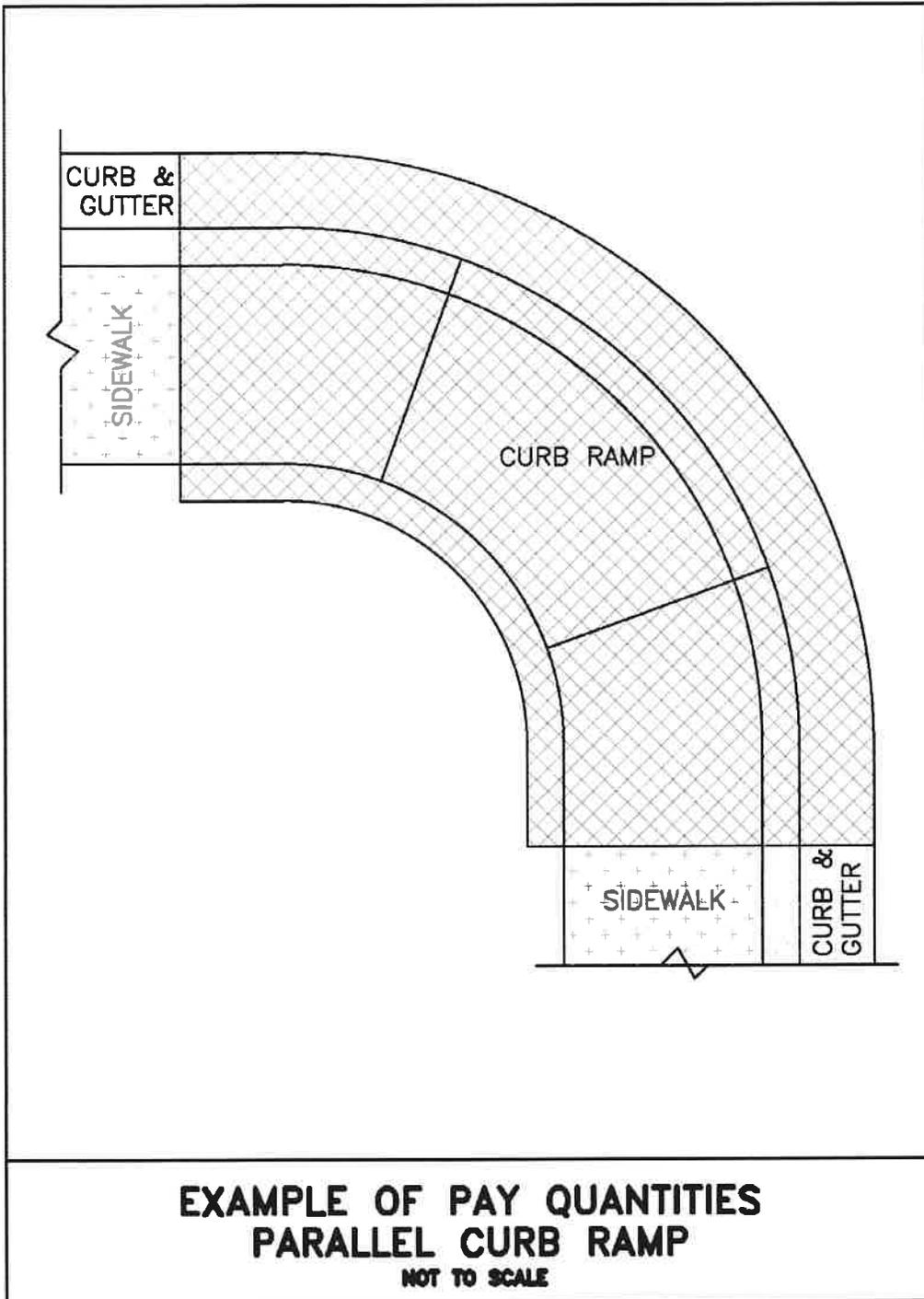
- 1.1.1 Driveway Approach
- 1.1.2 Parallel Curb Ramp with Valley Gutter
- 1.1.3 Perpendicular Curb Ramp
- 1.1.4 Parallel Curb Ramp







**EXAMPLE OF PAY QUANTITIES
PERPENDICULAR CURB RAMP
NOT TO SCALE**



DOCUMENT No. 4013 ROADBED MODIFICATION (7/7/20)**1. General:**

The work to be performed under this section shall be for the pulverization of the existing roadway to the depth necessary to construct the roadbed modification as shown on the plans as well as the spreading, mixing and finishing the cement modified roadway section.

2. Material:

The pulverized material shall conform to the following requirements:

Sieve Size	Percent Passing (%)
3"	100
2"	95 – 100

If the pulverization of the existing pavement layer does not meet these criteria, a portion of the pulverized material shall be replaced with approved virgin material to ensure compliance with the above, as directed by the Engineer.

3. Preparation of Roadbed:

Pulverize the existing roadway to the depth necessary to construct the roadbed modification as shown on the plans. Pulverization shall be restricted to half the roadway width at a time, or one lane at a time for more than a 2-lane road.

The pulverized material shall be rolled with a pneumatic tired roller and rough graded to base grade (+ 1 inch).

The Contractor shall maintain the pulverized surface in an acceptable condition until the mixing operations begin.

The Contractor shall shape the pulverized material, compact the pulverized material to an acceptable condition and place public traffic thereon at the end each work day. The Contractor shall maintain the compacted pulverized material in an acceptable condition until mixing operations are complete.

4. Proportioning:

Portland cement shall be added to the pulverized material at a rate of four (4) percent of the dry weight of the pulverized material as shown on the plans. Portland cement may be Type I, Type IP "blended", Type II, or Type V. The limitation on the amount of alkali in cements is not applicable.

Additional cement (plus two (2) percent) may be required where subgrade instability (i.e. pumping soil) is encountered as directed by the Construction Manager.

No cement modified material shall be spread when the soil subgrade is frozen or when the ambient air temperature is less than, or expected to fall below, 35 degrees F. Therefore, cement shall only be added to the cement modified material when the ambient air temperature is 35 degrees F and rising.

The percentage of moisture in the material, at the time of Portland cement application, shall be the amount that assures a uniform and intimate mixture of soil material and cement during mixing operations. The target moisture content for the mixture shall be 2 percent over optimum moisture content as determined by ASTM D1557.

5. Mixing:

The Contractor shall use an in-place roadmix machine of a pugmill type, auger type, or cross-shaft type mixer capable of providing a uniform homogeneous mixture throughout the material to the depth indicated on the plans.

All cement shall be furnished in bulk. The cement shall be distributed, by mechanical equipment, on the pulverized material in a layer of uniform thickness. The cement shall be added in a dry state. The Contractor shall exercise every precaution to prevent loss of material due to wind or other means. The Contractor shall calibrate each load in the spreading equipment such that the average rate of spread can be verified. The rate of application shall not vary by more than 10 percent from the rate specified above. The cement shall be spread on the pulverized material at a distance ahead of the roadmixing operations approved by the Construction Manager.

The Contractor shall use a roadmixing machine with provisions for introducing water at the time of mixing, through a metering device or by other approved methods. The water shall be applied by controls that will supply the correct quantity of water to produce a completed mixture with uniform moisture content. Leakage of water from equipment will not be permitted. The Contractor shall avoid the addition of any excessive water, so as to not exceed the target moisture content in the complete mixture.

The pulverized material, cement, and water shall be blended to the depth shown on the plans until a uniform homogeneous mixture is obtained. If equipment is used that requires more than one pass of the mixer, at least one pass shall be completed before any water is added to the material.

6. Compaction:

At the start of compaction, the percentage of moisture in the cement modified material shall be within 2 percentage points of the specified optimum moisture content and shall be less than the moisture content which will cause the composite material to become unstable during compaction and finishing. The specified optimum moisture content and density shall be determined in the field in accordance with ASTM D1557 on representative samples of the cement modified material obtained from the area being processed at the time compaction begins. The cement modified material shall be compacted to a minimum of 95 percent of maximum density in accordance with ASTM D1577.

The cement modified material shall be rolled with pneumatic tired rollers, and either a 2-axle tandem steel roller weighing not less than 10 tons, or a single or dual drum vibrating roller.

The operations of cement application, mixing, spreading, compacting and finishing shall be continuous and completed by the end of each work day. No cement modified material shall be left undisturbed for more than 30 minutes before the start of compaction. The total elapsed time between the addition of water to the cement modified material and the completion of the initial rolling shall not exceed 2 hours.

7. Finishing:

When the initial compaction is nearing completion, the surface of the cement modified material shall be shaped to the required lines, grades, and cross sections. The moisture content of the surface material shall be maintained at not less than the specified optimum moisture content during finishing operations.

If necessary, the surface shall be lightly scarified and reworked to remove any tire imprints left by equipment. Finishing shall be done in such a manner as to produce a smooth dense surface free of compacting planes, cracks, ridges, humps, depressions, or loose material. The time to completion of finish rolling shall not exceed 3 hours from the addition of water.

8. Protection and Curing:

The surface shall be kept moist at all times until the curing seal is applied. Water equipment shall be of a type which will apply moisture in a fog or mist type application free of pressure at the surface being treated.

The completed cement modified material shall be covered with a bituminous curing seal and sand blotter as protection against drying. The curing seal shall be applied as soon as possible, but not later than 12 hours after the completion of final rolling and by the end of each day's construction. Curing seal shall be asphalt emulsion, Type SS-1, conforming to the requirements of Section 201 – "Asphalts and Additives" of the Standard Specifications, unless otherwise specified by the Design Engineer. The curing seal shall be applied at a rate of between 0.15 gallon and 0.25 gallon per square yard of surface. The curing seal shall be applied in accordance

with the requirements of Section 340 – “HMA Pavement Preservation” of the Standard Specifications and in sufficient quantity to provide a continuous membrane over the cement modified material. At the time of application of the curing seal, the surface shall be tightly knit, free from all loose material, and shall contain sufficient moisture to prevent excessive penetration of the asphalt emulsion. If necessary to insure sufficient moisture content, sufficient water to fill the surface voids shall be applied immediately before the asphalt emulsion is applied.

No construction equipment and/or traffic shall be permitted on the cement modified material until the curing seal has set and adequate curing has occurred to ensure the strength of the modified layer is strong enough to support construction equipment, such as a loaded water truck, without any damage to the cement modified material.

The Contractor may elect to place an 8-inch minimum compacted thickness of aggregate base, millings, and/or steel traffic plates when necessary to protect the curing cement modified material for equipment or traffic, as directed by the Construction Manager. When equipment or traffic is permitted on the cement modified layer, and such permission is granted for the sole convenience of the Contractor, protection of the curing seal and cement modified material shall be at no additional cost.

Maintain the cement modified material in an acceptable condition during curing. Immediately prior to paving, remove any material or methods placed to protect the surface while curing. The cured surface shall be cleared of all loose material and any debris.

9. Construction Joints:

At the end of each day's construction, and when roadbed modification operations are delayed or stopped for more than 2 hours, a straight transverse construction joint shall be formed by cutting back into the completed work to form a true vertical face.

Roadbed modifications of large, wide areas shall be built in a series of parallel lanes of convenient length and width to the approval of the Construction Manager. Straight longitudinal joints shall be formed at the edge of each day's construction by cutting back into completed work to form a true vertical face free of loose or shattered material.

10. Inspection and Testing:

The contractor shall be required to provide QC testing during the roadbed modification process by a technician with the appropriate qualification for the Nevada Alliance for Quality Transportation Construction (NAQTC). QC testing shall include but not be limited to:

1. Provide cement and water proportioning as specified in STS 1.09C, to include verifying moisture content using a nuclear gauge.

The agency will provide QA testing during the roadbed modification process as follows:

1. Verify initial pulverization depths meet the required thickness based on the proposed roadway grades,
2. Obtain representative samples of pulverized material and provide the Contractor with the Maximum Dry Density and Optimum Water Content,
3. Perform Moisture/Density curve with specified cement content for Compaction Testing and check in-place compaction with Nuclear Gauge,
4. Verify cement tonnage/spread rate meets specifications,
5. Verify cement mixing is per specified depth.

END OF DOCUMENT 4013

Document No. 4015 - OBJECT MARKERS, DELINEATORS AND GUIDE POSTS (5/13/21)**1. DESCRIPTION**

- 1.1 **General.** This specification covers the materials, quality, and installation of object markers, delineators, channelizing posts, and guide posts for items shown in the proposal.

2. MATERIALS

- 2.1 **Type 1, 3, 4 Object Markers.** Metal Posts, target plates and reflectors shall conform to the Standard Specifications for Public Works Construction, current edition.
- 2.2 **Type 2 Object Markers.** Type 2 Object Markers (K-Markers) used on the ends of the median islands shall be manufactured by Impact Recovery Systems, Shur-Tite, or Approved Equal, and shall have a yellow post, Type OM2-1H yellow reflectors per the MUTCD, and a fixed mount base installed per the manufactures recommendations.
- 2.3 **Delineators, Channelizing Posts and Guide Posts.** All delineators, channelizing posts and guide posts shall be flexible and recoverable manufactured by Impact Recovery Systems, Shur-Tite, or approved equal. Posts shall be a round, 2 3/8-inch diameter plastic flexible delineator guidepost with a height as shown on the plans or specifications. The product shall be capable of recovering to the original upright position upon impact from a vehicle. The product shall include an anti-twist reactive spring system. The post shall include an anchoring system that is embedded into the ground using a square metal tube, or similar system, that allows for removal and replacement of the delineator post without removal of the anchor from the ground. The reflector size and type shall be in accordance with plans.

All posts used on roadside shoulders, or posts placed on pavement and raised islands where traffic on opposite sides of the posts travel in the same direction, shall be white with two high-intensity white reflectors. Posts placed on pavement or medians islands separating opposing directions of travel shall be yellow with two high-intensity yellow reflectors.

Posts placed on roadside shoulders or directly on pavement shall be 48-inches tall. Posts placed on raised islands shall be 36-inches tall. All posts shall have a short squeezed or pinched sealed top, without caps.

3. CONSTRUCTION

- 3.1 **General.** Target members and reflectors shall be assembled, fastened, set, and aligned in accordance with the details and dimensions shown on the Plans or per the manufacture's recommendations. Installation of fixed mount bases on asphalt or concrete shall each be secured with anchors and fasteners. The use of epoxy alone shall not be permitted. All fastenings shall be tight. Markers and posts shall be assembled, fastened, set and aligned in accordance with the details, locations, and dimensions shown on the Plans. Reflectors shall be installed when required as indicated. The exact locations will be determined by the Engineer.
- 3.2 **Roadside Installation.** Posts placed along roadside shoulders have a drivable base anchored into the soil at a minimum depth of 16-inches. The anchor shall not extend above the finished grade surface of the shoulder by more than 2-inches.
- 3.3 **Final Acceptance.** Final acceptance will be based on satisfactory compliance with these specifications.

END OF DOCUMENT

Document No. 7000 WATERBORNE PAVEMENT STRIPING (4/19/21)**1. DESCRIPTION**

- 1.1 General.** This work consists of applying permanent pavement striping and markings on the completed pavement. Use rapid dry waterborne traffic paint materials for the waterborne pavement striping item shown in the proposal.

2. CONSTRUCTION

- 2.1 General.** Protect the pavement striping and markings from public traffic until dry.

Painted pavement striping shall be four (4) inches wide unless otherwise noted.

- 2.2 Striping Equipment.** Use equipment with a system capable of spraying both yellow and white paint, mounted on a truck of sufficient size and stability, and having an adequate power source to produce lines of uniform dimension and prevent application failure. Use equipment capable of placing stripes on the left and right sides and of placing two lines simultaneously with either line in a solid or intermittent pattern in yellow or white, and of applying glass beads at the proper rate. All guns must be in full view of operators at all times. Provide equipment with a metering device to register the accumulated installed footage for each gun, each day. Include at least one operator in each vehicle who is a technical expert in equipment operations and application techniques. Use equipment designed so that the pressure gauges for each pump are constantly visible to the operator at all times during its operation so that any fluctuation and pressure difference can be monitored immediately. Equip each paint tank with a mechanical agitator.

For rapid dry waterborne traffic paint materials use only equipment designed for water based paints.

After opening containers of rapid dry waterborne traffic paint, maintain a thin layer of water on the surface of the paint during storage to prevent skinning.

- 2.3 Application.** Rapid Dry Waterborne Traffic Paint. Apply paint to an approved clean and dry surface. Paint is to be applied in two applications with the first being a seal coat applied minimum of 48 hours after paving/slurry and the second coat between 10-30 days after application of the first coat dependent on manufacturers recommendation for application.

Temporary Striping or reflective flexible road tabs shall be used to delineate striping between the time of placement of pavement/slurry to the first application of paint. Striping shall be scheduled at a reasonable time (i.e. accounts for weather, construction traffic on new paint, long term performance, etc.) and at the approval of the engineer. Striping shall be in like new condition with acceptable delineation and reflectivity at the completion of the project. Prematurely worn striping shall be re-applied at no cost.

Application of the second coat is to be with a machine capable of dispensing beads immediately after paint is applied. Glass beads are not to be applied to the first coat. Do not use thinner unless otherwise approved.

Do not apply paint when the ambient air temperature or the pavement temperature is below 7°C (45°F).

Apply Nev.Type II waterborne paint markings to obtain a fifteen (15) mils minimum wet

film thickness, measured without drop-on glass beads for both the primary seal coat and secondary coat.

Reflective material (glass beads) shall be applied at a rate of 8 to 12 pounds of beads per gallon of paint. Beads shall be transparent, clear colorless glass, smooth and spherically shaped, free of milkiness, pits, or excessive bubbles. The glass beads shall have a minimum of 80% rounds per screen for the two highest sieve quantities. The remaining sieve fraction shall be no less than 75%, rounds. Beads shall be tested for roundness using ASTM D1155 or the Microfiche Reader method. The Glass beads shall have a refractive index of 1.50 minimum as determined by the liquid immersion method (Becke Line Method or equal) at 25+ 5 degree Celsius (77+ 9 degree Fahrenheit) Glass beads shall be applied to all pavement markings.

All glass beads shall have a moisture proof overlay consisting of water repellent material applied during the process of bead manufacture. The beads so treated shall not absorb moisture in storage, shall remain free of clusters and lumps, and shall flow freely from dispensing and testing equipment.

Produce markings of uniform thickness and with uniform distribution of glass beads throughout the line width. The width of lines shall be as specified with tolerance of one quarter inch (1/4") for four (4) inch lines and one half inch (1/2") for wider lines. Produce markings with sharp edges and cutoff at the ends.

- 2.4 Final Acceptance.** Final acceptance will be based on satisfactory compliance with these specifications. Work will have a six month warranty.

END OF DOCUMENT

Addendum 1

CARSON CITY PURCHASING AND CONTRACTS**201 North Carson Street, Suite 2****Carson City, NV 89701****775-283-7362/FAX 887-2286****NOTICE TO CONTRACTORS****BID# 23300216****PWP# CC-2023-038****Colorado Street CDBG and Pavement Rehabilitation Project**

October 17, 2022

Addendum No. 1

The following information, clarification, changes and modifications are by reference incorporated into the bid document for the above referenced project. Any work item or contract provision not changed or modified will remain in full force and effect. **The bid date and time have changed.**

**The bid opening date and time has been extended to
Monday October 24, 2022 at 11:00 a.m.**

- Any additional questions may be submitted by 11:00am on October 18, 2022.

The City will hold the bid opening via webex meeting, the link is provided below.

Bid Opening Live Video

Bid opening will begin at **11:30am** on **October 24, 2022**.

Link:

<https://carsoncity.webex.com/carsoncity/j.php?RGID=rc2e2804a7e5d2a193cdc9e6bbad0ce4d>

Meeting number: 2499 129 4629

Join by phone +1-408-418-9388 United States Toll

Access code: 2499 129 4629

Addendum 2

CARSON CITY PURCHASING AND CONTRACTS
201 North Carson Street, Suite 2
Carson City, NV 89701
775-283-7362/FAX 887-2286
NOTICE TO CONTRACTORS
BID #23300216
PWP#CC-2023-038
STBG-0025(037)
Colorado CDBG and Pavement Reconstruction Project

Date: October 20, 2022

Addendum No. 2

Please see the below a list of questions received for the Colorado CDBG and Pavement Reconstruction Project.

1. **Clarification: Updated Prevailing Wage Rates shall be used for project (Included in Attachments Section):**
 - a. Davis Bacon Wages (NV20220023 7/8/22) Heavy
 - b. Davis Bacon Wages (NV20220011 8/26/22) Highway
 - c. 2023 Prevailing Wage Rates Northern Nevada Rural Counties Dated 10/1/22
2. **Clarification:** For clarification of Line Items 1.5 – Pulverize Existing AC Pavement and Base Material (9" Depth) and 1.6 - Pulverize Existing AC Pavement and Base Material (10" Depth), please see the attached revised Plan Sheet C1. The depth of pulverization is in reference to the finish grade; however, the contractor shall pulverize a minimum of 9 inches and 10 inches respectively in all areas.
3. **Question:** What is the Safe Harbor Benchmark to be met for Section 3 Target Workers? (Noted on Labor Hour Breakdown Form)

Answer: Please see Attachment "Notice Regarding Section 3" for further clarification

BENCHMARK REPORTING GOALS - (24 CFR 75.23)

All Sub-recipients are required to report all labor hours. The benchmark goal for Section 3 workers is set at 25 percent or more of the total number of labor hours worked by all workers on a Section 3 project.

The benchmark goal for Targeted Section 3 workers is set at 5 percent or more of the total number of labor hours worked by all workers on a Section 3 project. This means that the 5 percent is included as part of the 25 percent threshold.

4. **Question:** In the Section 3 Forms there seems to be information that is unapplicable to Contractors or they are asking for information that is unknown at bid time. Do some of these

forms need to be submitted at contract time by the low bidder or during construction or are they all required at bid time?

Answer: Section 3 Forms Clarification:

Please reference Attachment "Notice Regarding Section 3" for further clarification

- a. **Section 3 Certifications:** Forms have been updated. Please use updated Attachment. Due at time of bid
- b. **Section 3 Estimated Project Workforce Breakdown:** Due at time of bid
- c. **Section 3 Clauses:** This Attachment has been updated to remove "Sample Contractors Plan". Clauses required to be included in all contracts pertaining to the project.
- d. **Section 3 Contractors Plan(Template):** Document required at bid submission from General Contractor completed with Contractor's name and signature. This form was previously attached to Attachment "Section 3 Clauses", will now be its own attachment.
- e. **Section 3 Provisions:** Document has been updated. Please use updated attachment. Document is required in all contracts pertaining to project.
- f. **Section 3 Labor Hour Breakdown:** Due prior to completion of work. General Contractor is required to perform at least one of the options under "No Section 3 employees" Portion of the form. This will be discussed further at preconstruction meeting.
- g. **Section 3 Permanent Workforce Breakdown Form:** Due prior to pre-construction meeting from General Contractor and Sub-Contractor
 - This form is to be filled out if General Contractor or Sub-Contractor has Section 3 workers. If there are no Section 3 employees General Contractor and Sub-Contractor are to submit a letter on Company Letterhead stating such with the Permanent Workforce Form.
 - If General Contractor or Sub-Contractor **does** have Section 3 employees, then Permanent Workforce Form must be completed, and 5 years' worth of documentation provided for each employee. If there are no records for employee each employee will need to fill out a Self-Certification Form and submit with Permanent Workforce Breakdown form. (This is in reference to Section 3 clauses page 2 third bullet point.)

a. Can you define Permanent Workforce?

Answer:

Please reference Attachment "Notice Regarding Section 3" for further clarification.

Means at least 51% of which, on a full time equivalent (FTE) basis, are either held by LMI persons or considered to be available to LMI (Low moderate income) persons.

- h. **Self-Certification Form-**This form will be provided if contractor needs. Required only if Section 3 worker does not have 5 years' worth of documentation showing such.
- i. **Notice CPD-21-07-**This document has been added as an Attachment for informational purposes regarding Section 3.

***** Section 3 Documents not required at bid submission are not a disqualifying factor, the City will work with the Apparent low bidder as portions of this requirement are new.*****

Addendum 3

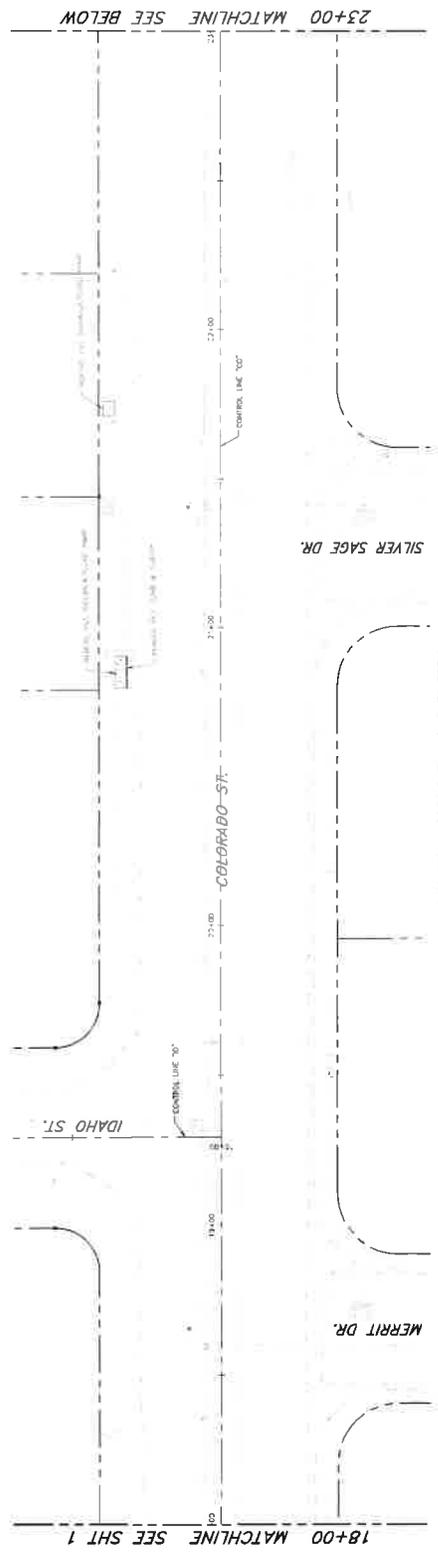
COLORADO STREET CDBG & PAVEMENT REHABILITATION PROJECT
PROJECT No. P303521001

REMOVAL PAY ITEMS

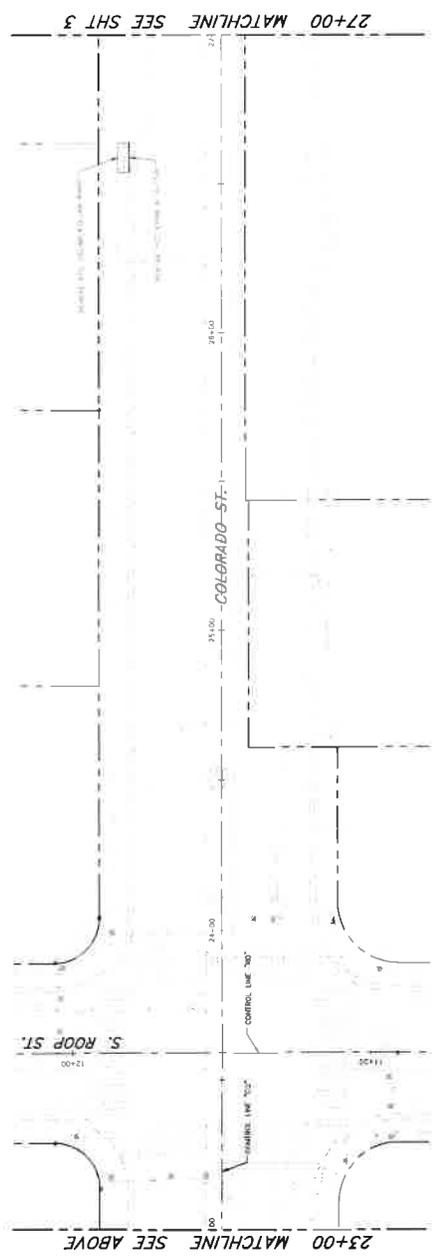
2 OF 10

CARSON CITY PUBLIC WORKS DEPARTMENT
3505 B. J. TAYLOR WAY CARSON CITY, NEVADA 89703
PH: 887-2555 FAX: 887-2112
S/C: N/A
PLANT DATE: 10/17/2022

REV	DATE	DESCRIPTION	BY	APP'D



PLAN - COLORADO STREET
SCALE: 1" = 40'



PLAN - COLORADO STREET
SCALE: 1" = 40'

NOTES:

1. THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE REVISIONS OF THE PROJECT MANUAL AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS AND BRIDGES.
2. THIS PLAN IS TO BE USED IN CONJUNCTION WITH THE REVISIONS OF THE PROJECT MANUAL AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS AND BRIDGES.

01
-01
SHEET

COLORADO STREET CDBG & PAVEMENT REHABILITATION PROJECT
PROJECT NO. F309521001

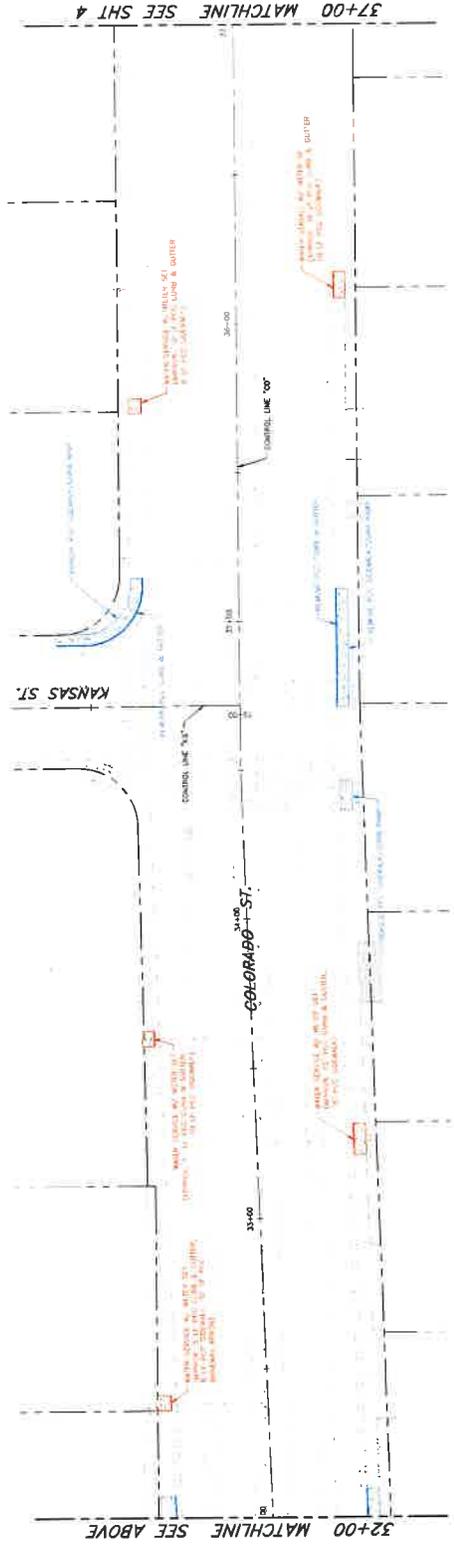
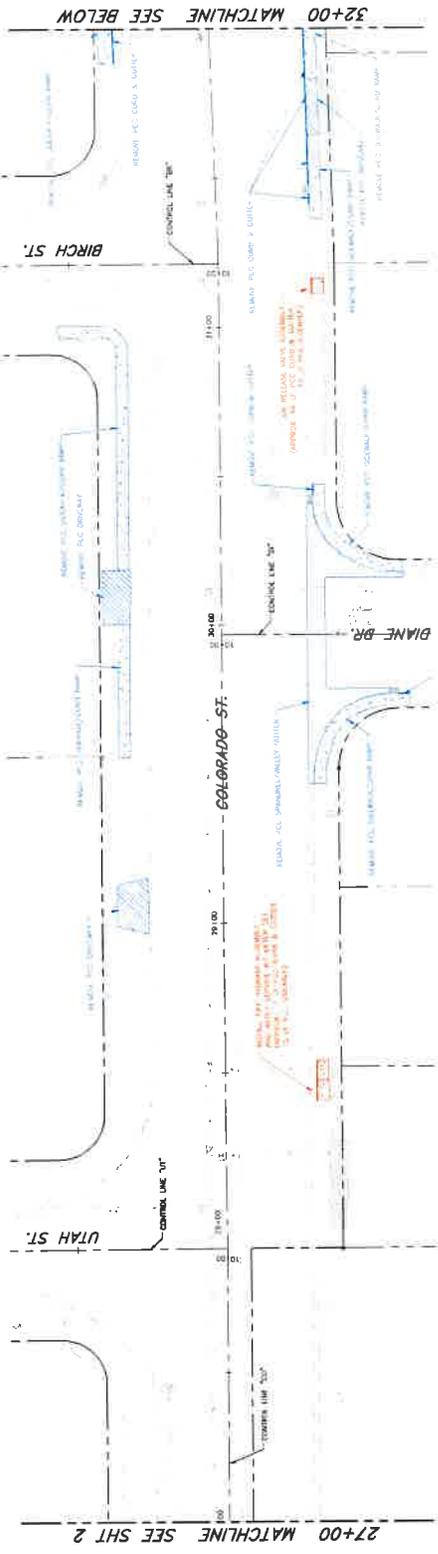
REMOVAL PAY ITEMS

R/LN	DATE	DESCRIPTION	REV	APP'D

CARSON CITY PUBLIC WORKS DEPARTMENT

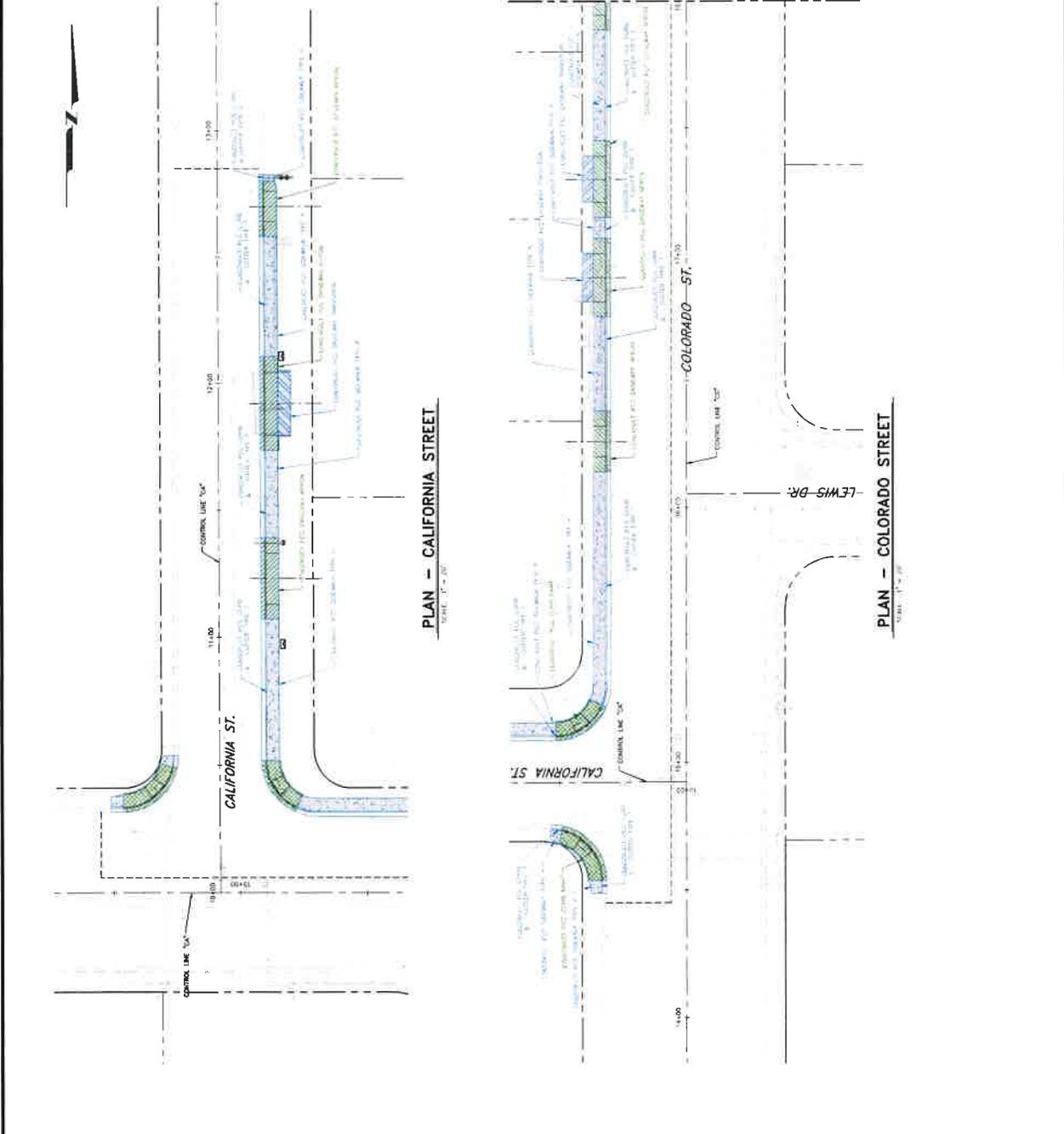
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 DRAWN BY: [Redacted]
 CHECKED BY: [Redacted]
 DATE: [Redacted]
 DRC NO.: [Redacted]
 SCALE (HORIZ): [Redacted]
 SCALE (VERT): [Redacted]
 PLOT DATE: 10/12/22

- NOTES
1. UNLESS OTHERWISE NOTED, ALL AREAS WHERE REMOVAL OF EXISTING PAVEMENT IS REQUIRED SHALL BE PAID FOR SEPARATELY UNDER ITEM 1.00.
 2. UNLESS OTHERWISE NOTED, ALL AREAS WHERE REMOVAL OF EXISTING CURBS AND GUTTERS IS REQUIRED SHALL BE PAID FOR SEPARATELY UNDER ITEM 1.01.



COLOrado STREET CDBG & PAYMENT REHABILITATION PROJECT PROJECT No. P305521001 DESIGN PAY ITEMS	
REV	DATE
DESCRIPTION	BY
APP'D	

DESIGNED BY: G29/AG
 DRAWN BY: G29/AG
 CHECKED BY: SM/AG
 SCALE (HORIZ): 1"=20'
 SCALE (VERT): N/A
 PLOT DATE: 10/13/22
 3335 BUTTE WAY CARSON CITY, NEVADA 89301
 PH: 897-2355 FAX: 897-2112
CARSON CITY PUBLIC WORKS DEPARTMENT



1. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
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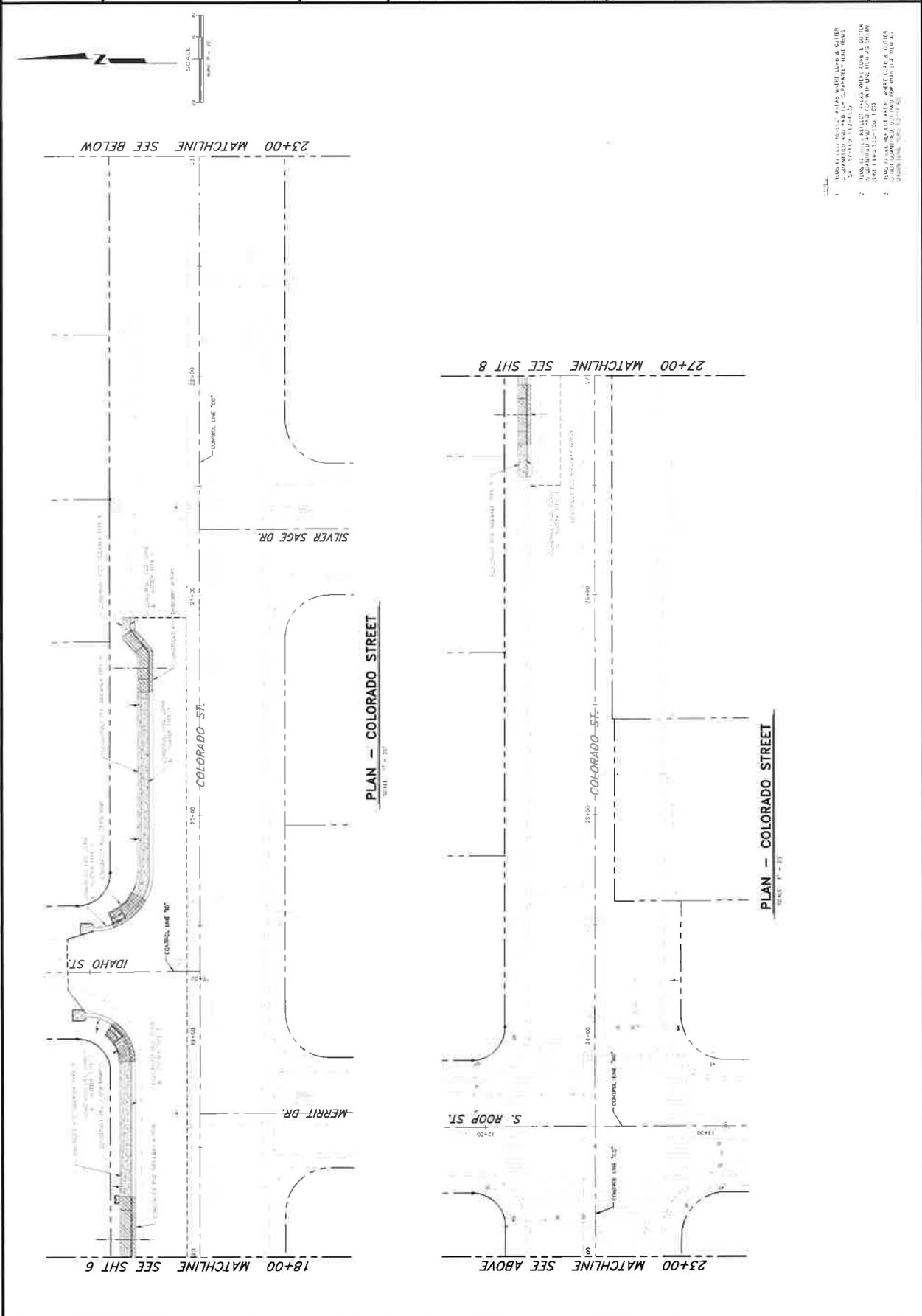
CARSON CITY PUBLIC WORKS DEPARTMENT
 3535 BUTTE WAY CARSON CITY, NEVADA 89301
 PH: 867-2955 FAX: 867-2112

DESIGNED BY: [Redacted]
 CHECKED BY: [Redacted]
 DRAWN BY: [Redacted]
 DATE: [Redacted]

REV	DATE	DESCRIPTION	BY	APP'D

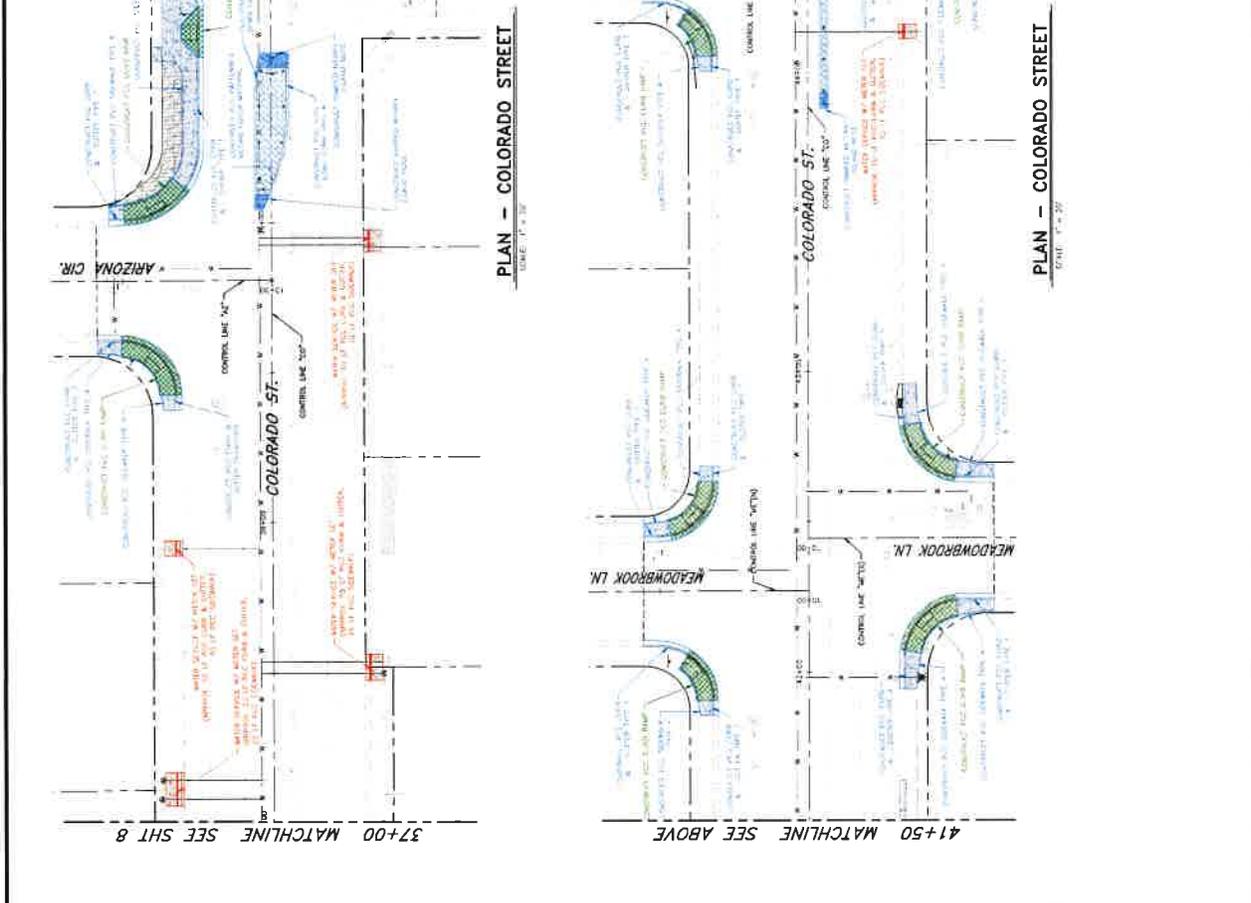
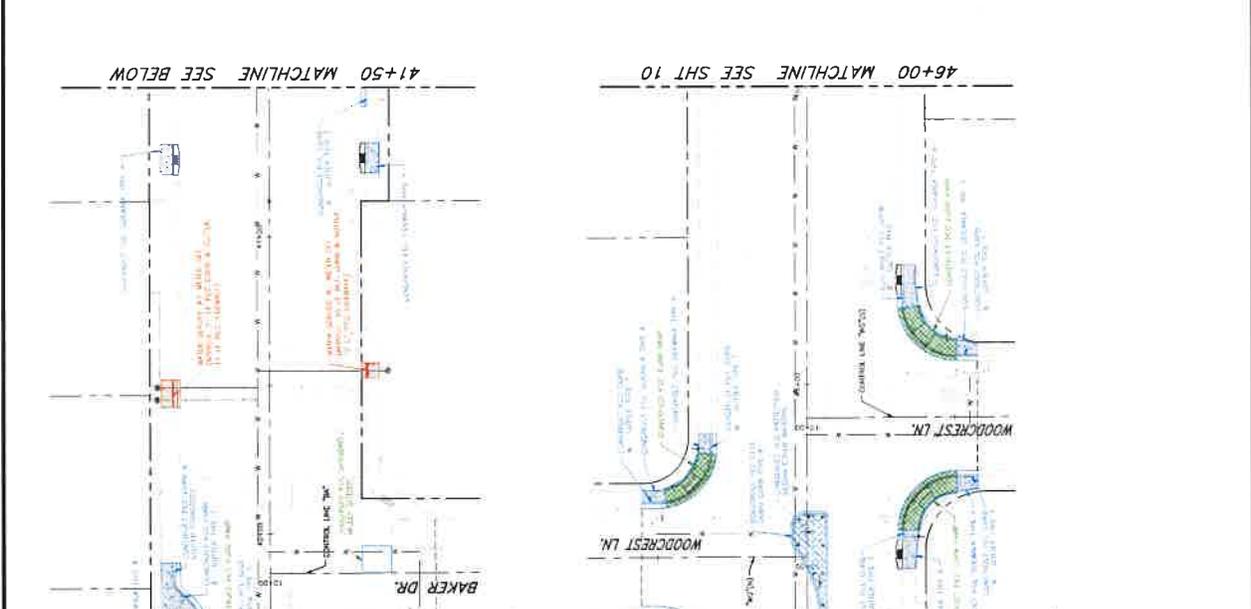
DESIGN PAY ITEMS

COLORADO STREET CDBG & PAVEMENT REHABILITATION PROJECT
 PROJECT No. P303521001



1. THIS PLAN SHOWS THE PROPOSED PAVEMENT REHABILITATION AND CURB & GUTTER REPAIRS TO BE PERFORMED ON COLORADO STREET FROM STATION 18+00 TO STATION 23+00.
2. THE PROPOSED PAVEMENT REHABILITATION AND CURB & GUTTER REPAIRS WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, EDITION 2003, WITH THE 2004 AND 2005 AMENDMENTS.
3. THE PROPOSED PAVEMENT REHABILITATION AND CURB & GUTTER REPAIRS WILL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS, EDITION 2003, WITH THE 2004 AND 2005 AMENDMENTS.

DESIGN PAY ITEMS PROJECT No. E303521001 PAVEMENT REHABILITATION PROJECT		SHEET 6 OF 10
REV DATE DESCRIPTION DY APP'D	CARSON CITY PUBLIC WORKS DEPARTMENT 3535 BUTT WAY CARSON CITY, NEVADA 89703 PH: 897-2355 FAX: 897-2112	
DESIGNED BY: CSE/AD DRAWN BY: BMS/AM CHECKED BY: BMS/AM DMC NO.: SCALE (HORIZ): 1"=20' SCALE (VERT): N/A PLOT DATE: 10/17/22		



1. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
 2. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 3. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
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 8. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
 9. ALL DIMENSIONS ARE TO CENTERLINE UNLESS OTHERWISE NOTED.
 10. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

DAVIS BACON RATES-HEAVY

General Decision Number: NV20220023 07/08/2022

General Decision Number: NV20220023 07/08/2022

Superseded General Decision Number: NV20210023

State: Nevada

Construction Type: Heavy
HEAVY CONSTRUCTION PROJECTS (including sewer/water construction).

County: Carson City County in Nevada.

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

<p>If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:</p>	<p>Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.</p>
<p>If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:</p>	<p>Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.</p>

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
0	01/07/2022
1	02/18/2022
2	02/25/2022
3	07/08/2022

* CARP0971-013 07/01/2022

	Rates	Fringes
CARPENTER (Includes Form Work)...	\$ 34.13	19.53

ELEC0357-011 06/01/2021		
	Rates	Fringes
ELECTRICIAN.....	\$ 50.58	20.45

ENGI0003-030 07/01/2020		
	Rates	Fringes
POWER EQUIPMENT OPERATOR (09) Mechanic and Backhoe Loader Combo.....	\$ 42.18	24.50

ENGI0012-014 10/01/2020		

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
(Crane)		
GROUP 12.....	\$ 52.94	26.65
GROUP 16.....	\$ 54.36	26.65
GROUP 17.....	\$ 54.86	26.65
GROUP 19.....	\$ 56.89	26.65
GROUP 20.....	\$ 57.50	26.65
GROUP 21.....	\$ 58.11	26.65
GROUP 22.....	\$ 58.87	26.65
GROUP 23.....	\$ 59.33	26.65

GROUP 12: Crane Operator (up to including 40 ton capacity)

GROUP 16: Crane Operator (over 40 tons up to and including 79 tons)

GROUP 17: Crane Operator (Including 80 tons up to and including 150 tons)

GROUP 19: Crane Operator (over 150 tons up to and including 200 tons)

GROUP 20: Crane Operator (over 200 tons up to and including 250 tons)

GROUP 21: Crane Operator (over 250 tons up to and including 300 tons)

GROUP 22: Crane Operator (over 300 tons up to and including 350 tons)

GROUP 23: Crane Operator (over 350 tons)

ENGI0012-015 10/01/2016

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
GROUP 01.....	\$ 41.39	23.65
GROUP 04.....	\$ 44.12	23.65
GROUP 06.....	\$ 44.34	23.65
GROUP 07.....	\$ 44.34	23.65
GROUP 08.....	\$ 44.45	23.65
GROUP 12.....	\$ 44.74	23.65

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Oiler

GROUP 4: Screed Operator; Trenching Machine Operator (up to 6ft. depth capacity, manufacturer's rating); Drilling Machine Operator, Small Auger Types (Texoma Super Economatic, or similar types - Hughes 100 or 200, or similar types - drilling depth of 30' maximum)

GROUP 6: Driller (rotary and core)

GROUP 8: Compactor (self-propelled); Drilling Machine Operator, Bucket or Auger Types (Calweld 150 Bucket or similar types - Watson 1500, 2000, 2500 Auger or similar types - Texoma 700, 800 Auger or similar types - drilling depth of 60' maximum); Rubber-Tired Scraper Operator (self-loading paddle wheel type -John Deere, 1040 and similar single unit).

GROUP 12: Rubber-Tired Self-Loading Scraper Operator (paddle-wheel-Auger type self-loading - two (2) or more units).

IRON0416-002 10/01/2021

	Rates	Fringes
IRONWORKER, REINFORCING.....	\$ 43.30	34.30

IRON0433-002 10/01/2021

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 43.30	34.30

LAB00169-003 10/01/2021

	Rates	Fringes
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LABORER

(1) Common or General; Cones/ Barricades/ Barrels- Setter/Mover/Sweeper.....	\$ 28.55	14.77
(1A) Flagger.....	\$ 25.68	14.77
(3) Asphalt Shoveler, Spreader and Distributor; Concrete Saw (Hand Held/Walk Behind); Mason Tender - Cement/Concrete;...	\$ 28.80	14.77
(4) Asphalt Raker; Pipelayer.....	\$ 29.05	14.77

* PLAS0797-009 07/01/2022

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 45.04	16.92

SUNV2014-023 09/08/2016

	Rates	Fringes
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 32.26	17.65
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 34.41	0.00
OPERATOR: Broom/Sweeper.....	\$ 36.66	12.22
OPERATOR: Grader/Blade.....	\$ 26.77	9.57
OPERATOR: Loader.....	\$ 33.37	17.25
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 29.57	0.00
OPERATOR: Roller.....	\$ 28.50	19.69
TRUCK DRIVER: Dump Truck.....	\$ 22.28	0.00

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or

""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISIO"

DAVIS BACON RATES-HIGHWAY

General Decision Number: NV20220011 08/26/2022

"General Decision Number: NV20220011 08/26/2022

Superseded General Decision Number: NV20210011

State: Nevada

Construction Type: Highway
 HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

County: Carson City County in Nevada.

HIGHWAY CONSTRUCTION PROJECTS (excluding tunnels, building structures in rest area projects & railroad construction; bascule, suspension & spandrel arch bridges designed for commercial navigation, bridges involving marine construction; and other major bridges).

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022:	. Executive Order 14026 generally applies to the contract. . The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in 2022.
If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022:	. Executive Order 13658 generally applies to the contract. . The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at <https://www.dol.gov/agencies/whd/government-contracts>.

Modification Number	Publication Date
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1	02/18/2022
2	02/25/2022
3	03/11/2022
4	06/10/2022
5	07/08/2022
6	08/12/2022
7	08/26/2022

CARP0971-001 07/01/2022

	Rates	Fringes
CARPENTER (Form Work Only).....	\$ 34.13	19.53

ELEC0401-001 01/01/2022

	Rates	Fringes
ELECTRICIAN.....	\$ 42.50	20.95

 ENGI0003-031 07/01/2018

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
Backhoe/Excavator/Trackhoe..	\$ 38.37	24.80
Bobcat/Skid Steer/Skid Loader.....	\$ 35.46	24.80
Grade Setter.....	\$ 38.18	24.80
Grader/Blade.....	\$ 38.37	24.80
Paver (Asphalt, Aggregate and Concrete).....	\$ 36.92	24.80
Roller.....	\$ 36.92	24.80

 ENGI0012-013 10/01/2018

	Rates	Fringes
POWER EQUIPMENT OPERATOR		
(1) Forklift.....	\$ 44.99	24.70
(6) Drill.....	\$ 47.94	24.70
(8 A) Grade Checker; Mechanic; Scraper;.....	\$ 48.05	24.70
(8 B) Oiler.....	\$ 48.67	24.70

 IRON0118-002 10/01/2019

	Rates	Fringes
IRONWORKER, REINFORCING.....	\$ 40.14	33.01

 LABO0169-008 10/01/2021

	Rates	Fringes
LABORER		
(1) Common or General; Cones/ Barricades/ Barrels-Setter/Mover/Sweeper.....	\$ 28.55	14.77
(1A) Flagger.....	\$ 25.68	14.77
(3) Asphalt Shoveler, Spreader and Distributor; Concrete Saw; Mason Tender-Cement/Concrete.....	\$ 28.80	14.77
(4) Asphalt Raker; Pipelayer.....	\$ 29.05	14.77
(5A) Highway/Parking Lot Striping.....	\$ 31.30	14.77

* LABO0872-001 07/01/2022

	Rates	Fringes
LABORER		
(3) Jackhammer.....	\$ 32.79	30.36

 PAIN0159-008 07/01/2021

	Rates	Fringes
PAINTER: Brush and Roller Only...	\$ 44.12	20.16

 TEAM0631-003 07/01/2018

	Rates	Fringes
TRUCK DRIVER: Dump Truck (All Types).....	\$ 29.45	26.72

* UAVG-NV-0001 10/01/2018

	Rates	Fringes
OPERATOR: Crane.....	\$ 52.37	24.70

* UAVG-NV-0002 07/01/2018

	Rates	Fringes
OPERATOR: Loader.....	\$ 38.03	27.79

 SUNV2017-010 10/01/2018

	Rates	Fringes
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CEMENT MASON/CONCRETE FINISHER...	\$ 37.00	0.00
IRONWORKER, STRUCTURAL.....	\$ 34.75	29.20

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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WAGE DETERMINATION APPEALS PROCESS

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Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISIO"

2023 PREVAILING WAGE RATES
NORTHERN NEVADA RURAL COUNTIES

STATE OF NEVADA

STEVE SISOLAK
GOVERNOR

TERRY REYNOLDS
DIRECTOR

BRETT K. HARRIS
LABOR COMMISSIONER



OFFICE OF THE LABOR COMMISSIONER
3300 WEST SAHARA AVENUE, SUITE 225
LAS VEGAS, NEVADA 89102
PHONE: (702) 486-2650
FAX (702) 486-2660

OFFICE OF THE LABOR COMMISSIONER
1818 COLLEGE PARKWAY, SUITE 102
CARSON CITY, NV 89706
PHONE: (775) 684-1890
FAX (775) 687-6409

2023 PREVAILING WAGE RATES NORTHERN NEVADA RURAL COUNTIES

(Carson City, Churchill, Douglas, Elko, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey and White Pine)

DATE OF DETERMINATION: October 1, 2022

**APPLICABLE FOR PUBLIC WORKS PROJECTS OVER \$100,000 BID/AWARDED
OCTOBER 1, 2022 THROUGH SEPTEMBER 30, 2023**

Pursuant to Nevada Revised Statutes (NRS) section 338.030(9)(a), "If the contract for a public work: (a) Is to be awarded pursuant to a competitive bidding process, the prevailing wages in effect at the time of the opening of the bids for a contract for a public work must be paid until the completion or termination of the contract or for the 36 months immediately following the date on which the bids were opened, whichever is earlier." For contracts not awarded pursuant to competitive bidding, please see NRS section 338.030(9)(b). However, if a project exceeds 36 months new wage rates may apply pursuant to NRS section 338.030(9)(10). Prevailing Wage Rates may be adjusted based on Collective Bargaining Agreements (CBA's) and adjustments to those agreements. (See NRS 338.030)

PREVAILING WAGE DETERMINATIONS - NRS 338.030 subsection 7, the wages so determined must be:

- (a) Issued by the Labor Commissioner on October 1 of the odd-numbered year in which the survey was conducted and, except as otherwise provided in subsection 8, remain effective for 2 years after that date; and
- (b) Made available by the Labor Commissioner to any public body which awards a contract for any public work.

Senate Bill 243 passed during the 80th Nevada Legislative Session (2019) and set forth in NRS section 338.025, now requires the Labor Commissioner to calculate the Prevailing Wage Rates by region. NRS section 338.025 Prevailing wage regions. For the purpose of determining the prevailing rate of wages pursuant to NRS section 338.030, four prevailing wage regions are hereby established in this State as follows:

1. The Washoe Prevailing Wage Region consisting of Washoe County;
2. The Northern Rural Prevailing Wage Region consisting of Carson City and the counties of Churchill, Douglas, Elko Eureka, Humboldt, Lander, Lyon, Mineral, Storey, Pershing and White Pine;
3. The Clark Prevailing Wage Region consisting of Clark County; and
4. The Southern Rural Prevailing Wage Region consisting of the counties of Esmeralda, Lincoln and Nye.

OBJECTIONS TO PREVAILING WAGE DETERMINATIONS – NRS section 338.030 subsection 2. Objections to the Prevailing Wage Determinations must be submitted within 30 days after the Prevailing Wage Determinations are issued.

Pursuant to NRS section 338.030 subsection 8, the Labor Commissioner will review the prevailing wage rates in each even-numbered year to determine if adjustments should be made.

As Amendments/Revisions are made to the wage rates, they will be posted on the website for each respective Region. Please review regularly for any Amendments/Revisions that are posted or contact our offices directly for further assistance.

Air Balance Technician	4
Alarm Installer	5
Boilermaker	6
Bricklayer	7
Carpenter	9
Cement Mason	10
Electrician – Communication Technician	11
Electrician - Lineman	13
Electrician – Neon Sign	15
Electrician - Wireman	16
Elevator Constructor	17
Fence Erector	19
Flagperson	20
Floorcoverer	21
Glazier	22
Highway Striper	23
Hod Carrier-Brick Mason	24
Hod Carrier – Plasterer Tender	25
Ironworker	27
Laborer	30
Lubrication And Service Engineer (Mobile And Grease Rack)	30
Mechanical Insulator	32
Millwright	33
Operating Engineer	35
Operating Engineer – Steel Fabricator & Erector	35
Operating Engineer – Piledriver	36
Painter	38
Piledriver (Non-Equipment)	40
Plasterer	42
Plumber/Pipefitter	43
Refrigeration	44
Roofer	45
Sheet Metal Worker	46
Soils and Material Tester	47
Sprinkler Fitter	47
Surveyor	47
Taper	48
Tile/Terrazzo Worker/Marble Mason Finisher	49
Tile/Terrazzo Worker/Marble Mason	50
Traffic Barrier Erector	52
Truck Driver	53
Well Driller	55
Group Classifications	
Labor Group Classifications	56
Operating Engineers	60

NRS section 338.010 subsection (25) "Wages" means:

- a) The basic hourly rate of pay; and
- b) The amount of pension, health and welfare, vacation and holiday pay, the cost of apprenticeship training or other similar programs or other bona fide fringe benefits which are a benefit to the worker.

NRS section 338.035 Bona Fide Fringe Benefits - Discharge of part of obligation of contractor or subcontractor engaged on public work to pay wages by making certain contributions in name of workman. "Bona fide fringe benefit" means a benefit in the form of a contribution that is made not less frequently than monthly to an independent third party pursuant to a fund, plan or program: (a) Which is established for the sole and exclusive benefit of a worker and his or her family and dependents; and (b) For which none of the assets will revert to, or otherwise be credited to, any contributing employer or sponsor of the fund, plan or program. The term includes, without limitation, benefits for a worker that are determined pursuant to a collective bargaining agreement and included in the determination of the prevailing wage by the Labor Commissioner pursuant to NRS section 338.030.

Please see NRS sections 338.010, 338.020, and 338.035 and Nevada Administrative Code (NAC) sections 338.0097 and 338.092 through 338.100 for further details on "Bona fide fringe benefits" and reporting requirements and exceptions.

Job Descriptions for Recognized Classes of Workers

Regarding job descriptions for public works projects, please take notice of the following:

1. The job description links have been redacted to include ONLY the scope of work for the craft.
2. Pursuant to NAC section 338.0095(1)(a) - A worker employed on a public work must be paid the applicable prevailing rate of wage for the type of work that the worker actually performs on the public work and in accordance with the recognized class of the worker.
3. The work description for a particular class is not intended to be jurisdictional in scope.
4. Any person who believes that a type of work is not classified, or who otherwise needs clarification pertaining to the recognized classes or job descriptions, shall contact the Labor Commissioner in writing for a determination of the applicable classification and pay rate for a particular type of work.
5. The job descriptions set forth or referenced herein supersede any, and all descriptions previously agreed upon by the Labor Commissioner in any settlement agreements or stipulations arising out of contested matters.
6. The following specific provisions, where applicable, shall prevail over any general provisions of the job descriptions:
 - Amendments to the prevailing wage determinations.
 - Group Classifications and/or descriptions recognized by the Labor Commissioner and included with wage determinations for a particular type of work in a particular county.

Zone Rates

The zone rate has been added to each applicable craft.

Premium Pay Premium pay for hours worked in excess of a shift of 8 hours or 12 hours, or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

Craft: AIR BALANCE TECHNICIAN (Union Rate)

Prevailing wage rates include the base rate as well as all applicable fringes

Air Balance Technician Journeyman.....	71.50
Air Balance Technician-Foreman.....	75.71
Air Balance Technician-General Foreman.....	79.93

ADD ZONE RATE

In addition to AIR BALANCE rates add the applicable amounts per hour, calculated based on a road from the courthouse in Reno, Nevada:

Zone 1	0 to 75 miles	\$0.00
Zone 2	75 to 100 miles	\$5.00
Zone 3	Over 100 miles	\$10.00 the employee shall be provided reasonable lodging and meal expenses.

ADD PREMIUM PAY

All hourly rates are subject to Over Time (One and one half 1 ½) of the Regular rate:

1. For all hours worked over Eight (8) Hours in one day or shift.
2. For the first Eight (8) Hours work on Saturday.

All hourly rates are subject to Double Time of the Regular Rate:

1. For all hours worked over Ten (10) Hours in one day or shift.
2. For all hours worked over Eight (8) Hours on Saturday.
3. For all hours worked on Sunday, New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, Day before Christmas, and Christmas Day.

RECOGNIZED HOLIDAYS

New Year’s Day, President’s Day, Memorial Day, Independence Day, Labor Day, Nevada Day, Thanksgiving Day, Day after Thanksgiving, Day before Christmas, and Christmas Day

JOB DESCRIPTION: Excerpt from Sheet Metal Local 26 Collective Bargaining Agreement

(a) manufacture, fabrication, assembling, handling, erection, installation, dismantling, conditioning, adjustment, alteration, repairing and servicing of all ferrous or nonferrous metal work and all other materials used in lieu thereof and of all HVAC systems, air veyor systems, exhaust systems, and air-handling systems regardless of material used including the setting of all equipment and all reinforcements in connection therewith; (b) all lagging over insulation and all duct lining; (c) testing and balancing of all air-handling equipment and duct work; (d) the preparation of all shop and field sketches whether manually drawn or computer assisted used in fabrication and erection, including those taken from original architectural and engineering drawings or sketches; (e) metal roofing; and (f) all other work included in the jurisdictional claims of International Association of Sheet Metal, Air, Rail and Transportation Workers.

Craft: ALARM INSTALLER (Non-Union Rate)

Prevailing wage rates include the base rate as well as all applicable fringes

Alarm Installer33.79

JOB DESCRIPTION:

Includes but is not limited to:

1. Installing or testing electrical protective signaling systems used to provide notification of fire, burglary or other irregularities on the premises of the subscriber of the system;
2. Installing of wiring and signaling units;
3. Repairing electrical protective signaling systems
4. Starting up, programming and documenting systems;

Craft: BOILERMAKER (Union Rate)
Prevailing wage rates include the base rate as well as all applicable fringes

Boilermaker.....	65.94
Boilermaker Foreman.....	65.94
Boilermaker General.....	65.94

ADD PREMIUM PAY

Premium pay for hours worked in excess of a shift of 8 hours or 12 hours or such other time increment set forth in the Collective Bargaining Agreement or on a weekend or holiday.

JOB DESCRIPTION:

Includes but is not limited to:

1. Constructing, assembling, maintaining and repairing stationary steam boilers and boiler house auxiliaries;
2. Aligning structures or plate sections to assemble boiler frame tanks or vats;
3. Assisting in the testing of assembled vessels, directing cleaning of boilers and boiler furnaces;
4. Inspecting and repairing boiler fittings, including, without limitation, safety valves, regulators, automatic-control mechanisms, water columns and auxiliary machines.

Craft: BRICKLAYER (Union Rate)
Prevailing wage rates include the base rate as well as all applicable fringes

Bricklayer Journeyman.....50.03
 Bricklayer Foreman.....51.28

Zone 1	0 to 34 miles	\$0.00
Zone 2	35 to 75 miles	\$2.50
Zone 3	Over 75 miles	\$8.12

ADD PREMIUM PAY

Section A. Hours. The standard workday shall consist of eight (8) continuous hours of work between the hours of 5:30 a.m. and 4:30 p.m.,

Section B. Overtime All work in excess forty (40) hours during the established work week shall be paid at the rate of one and one half (1-1/2) times the hourly base wage rate in effect. Employees will be paid one and one-half (1-1/2) times the hourly wage rate for all hours worked over eight (8) in a single day, and double time (2x) after ten (10) hours in a single day.

1. Employees will be paid double time for hours worked on Union recognized Holidays.
2. Employees will be paid double time on Sundays.
3. Work performed on Saturday will be paid at one and one-half (1-1/2) times the regular wage rate, in accordance with Article XVII, Section D. Work performed on Saturdays in excess of eight (8) hours shall be paid at double the applicable hourly rate.

Section C.

1. The first shift shall be the regular day shift insofar as computing wage payments is concerned, and the first day shift shall work a regular eight-hour shift, with a one half-hour unpaid lunch period midway through the shift. The normal starting time for the first shift shall be between 5:30-10:00 a.m.
2. If two work shifts are established, the second shift shall consist of eight (8) hours of continuous work, with a one half-hour unpaid lunch period midway through the shift. Employees working on the second shift shall receive eight hours times the basic straight time rate plus an additional fifty cents (\$.50) per hour for each of those eight hours.
3. If three work shifts are established, the third shift shall consist of seven hours of continuous work, plus one half-hour unpaid lunch period midway through the shift. Employees working on the third shift shall receive the basic straight time rate plus three dollars and twenty-five cents (\$3.25) for each of those seven hours.
4. Time worked in excess of seven hours on the third shift shall be paid at the appropriate overtime rate.

RECOGNIZED HOLIDAYS

Holidays. The Employer agrees to recognize the following holidays: New Year's Day, Presidents' Day, Memorial Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving Day, Friday following Thanksgiving Day, and Christmas Day. Any holiday falling on a Sunday will be observed on the Monday following, and any holiday falling on a Saturday will be observed on the preceding Friday.