

PROJECT SPECIFICATIONS

INSURANCE REQUIREMENTS:

The Contractor shall purchase and maintain at its expense the following types of insurance, issued by companies acceptable to the Commonwealth.

Workmen's Compensation Insurance. Sufficient to cover all of the employees of the Contractor, working to fulfill this contract.

Comprehensive General Liability Insurance. To include bodily injury and property damage insurance, to protect the Commonwealth, the Contractor or any Sub-Contractors from claims arising out of the performance of the contract. The amount of bodily injury insurance shall not be less than \$300,000 for injury to or death of persons per occurrence. The amount of property damage insurance shall not be less than \$300,000 per occurrence. Certificates evidencing coverage for Workmen's Compensation, Public Liability and Property Damage shall be furnished if requested.

Special Hazard. Special hazards, if there is a possibility of such hazard existing in the work contemplated, this shall be covered by separate insurance or by rider(s) to other required policy(s). Possible hazards, such as blasting, explosion, and fire on insurable items shall be so covered.

Policy or Policies in duplicate to accomplish insurance as above described, shall be written on either a Builder's Risk Form or Alterations and Additions Form or Installation Floater Form, whichever, is applicable, and shall be filed, upon request, with the Pennsylvania Game Commission before starting the work. Duplicate certificates of insurance for the Installation Floater covering this project will be acceptable.

All policies shall be issued by Insurance Companies authorized to conduct such business under the laws of the Commonwealth of Pennsylvania and shall run until date of final acceptance of the work. Policies expiring at a fixed date before final acceptance of the work must be renewed and refiled before such date.

OBSERVANCE OF LAWS AND REGULATIONS. The contractor shall observe all laws and regulations pertaining to his work, including regulations of the Department of Labor and Industry, the Department of Environmental Resources, the applicable local laws or ordinances, and shall furnish as required any permits, licenses and certificates and pay any fees incidental thereto. The Contractor agrees to save harmless and fully indemnify the Commonwealth from all damages, costs or expenses for infringement of any patent rights as a result of use on the project of patented articles.

INSPECTION AND CHANGES. All work will be subject to inspection and acceptance by the Pennsylvania Game Commission. The Pennsylvania Game Commission shall have the right to make changes in the quantities or character of the work involved.

TEMPORARY SERVICES AND JOB CONDITIONS. The contractor shall be responsible for providing temporary facilities and utilities necessary to execute and protect his work. The contractor shall accept all conditions as found by him upon examination of the site. He shall cooperate in the arrangements of his work as necessary to least affect the administration or

operations of present buildings and shall keep the site clean at all times. If such modifications materially increase the unit cost of work, the increased expense will be paid by the Commission following execution of a Change Order in a dollar amount determined by the Commission, in its sole discretion, to be fair and reasonable. If such modifications diminish the unit cost of the work, the amount of said diminution may be retained or withheld by the Commission. No consequent loss of anticipated profit on work not executed will be paid to the Contractor.

LABOR REQUIREMENTS. All laws and regulations of the Commonwealth pertaining to conditions of employment shall be observed including, but not limited to, the Act of July 18, 1935, No. 383 (43 P.S. Sec. 153) prohibiting racial discrimination, Act of July 19, 1935, No. 414 (43 P.S. Sec. 154) requiring hiring of state resident, the Act of June 21, 1937, No. 373 (71 P.S. Sec. 202) relating to minimum wages and the veteran's preference provision of the Military Code (51 Pa. P.S. Sec. 7106).

PREVAILING WAGE. This contract is subject to the provisions, duties, obligations, remedies and penalties of the Act of August 15, 1961 (P.L. 987), as amended, known as the "Pennsylvania Prevailing Wage Act" (43 P.S. Sec. 165-1 et seq). The general prevailing minimum wage rates as determined by the Secretary of Labor and Industry shall be paid for each craft or classification of all workmen needed to perform this Contract during the term hereof, for the locality in which the work is to be performed. (See attached Prevailing Wage Determination, pages 1 to 8).

PAYMENT TERMS. Payment will be made at the unit prices bid for each item upon satisfactory completion of items as listed on the electronic bid form.

If after substantial completion of work, final completion thereof is materially delayed through no fault of the Contractor, the Commission, may without terminating the Contract, make payment for that portion of the work completed and accepted. Upon completion, final approval and acceptance of work, the Contractor, will be paid the total amount of the Contract, subject to any authorized additions to or deductions from the Contract amount.

CONTRACT TERM. The Contract shall commence upon delivery of purchase order to Contractor (estimated to be April 20, 2020) and shall terminate on June 26, 2020. All work must be completed and accepted by that date. Time extensions will be considered for factors beyond the contractor's control such as adverse weather conditions.

EXCISE TAXES, PENNSYLVANIA SALES TAX. It is further understood the Commonwealth is exempt from all Excise Taxes. This also applies with reference to the Pennsylvania Sales Tax, however, the Contractor remains liable for the payment of Sale and Use Tax on all materials and fixtures which he purchases or uses for the purpose of fulfilling this contract, irrespective of the fact that the work is being performed for a governmental instrumentality.

OFFSET PROVISION. The Contractor agrees that the Commonwealth may set off the amount of any state liability or other debt of the Contractor or its subsidiaries that is owed to the Commonwealth and not being contested on appeal against any payments due the contractor under this or any other contract with the Commonwealth.

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project Name:	Law Enforcement Shooting Range - SGL #255
Awarding Agency:	PA Game Commission
Contract Award Date:	4/22/2020
Serial Number:	20-02574
Project Classification:	Building/Heavy/Highway
Determination Date:	3/25/2020
Assigned Field Office:	Altoona
Field Office Phone Number:	(814)940-6224
Toll Free Phone Number:	
Project County:	Clinton County

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-02574 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	7/1/2016		\$34.48	\$18.52	\$53.00
Asbestos & Insulation Workers	7/1/2018		\$34.83	\$19.17	\$54.00
Asbestos & Insulation Workers	7/1/2019		\$35.33	\$19.67	\$55.00
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2017		\$28.52	\$18.22	\$46.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2018		\$29.52	\$18.22	\$47.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	1/1/2019		\$29.26	\$18.48	\$47.74
Boilermakers	3/1/2018		\$45.89	\$33.73	\$79.62
Boilermakers	1/1/2019		\$45.51	\$34.11	\$79.62
Boilermakers	8/1/2019		\$47.21	\$34.11	\$81.32
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2017		\$32.77	\$16.34	\$49.11
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2018		\$33.16	\$16.75	\$49.91
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2019		\$33.63	\$17.18	\$50.81
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2020		\$34.17	\$17.64	\$51.81
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2021		\$34.78	\$18.13	\$52.91
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2018		\$28.51	\$15.27	\$43.78
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2019		\$29.11	\$15.92	\$45.03
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2020		\$29.93	\$16.39	\$46.32
Carpenters, Drywall Hangers, Framers, Instrument Men, Lathers, Soft Floor Layers	6/1/2021		\$30.77	\$16.89	\$47.66
Carpenters	6/1/2017		\$27.93	\$14.79	\$42.72
Cement Masons	7/10/2017		\$26.96	\$16.73	\$43.69
Cement Masons	6/1/2018		\$27.25	\$10.71	\$37.96
Cement Masons	7/1/2018		\$27.74	\$17.10	\$44.84
Cement Masons	7/1/2019		\$28.49	\$17.45	\$45.94
Drywall Finisher	5/1/2017		\$27.81	\$18.17	\$45.98
Drywall Finisher	5/1/2019		\$28.61	\$20.04	\$48.65
Electricians	6/1/2017		\$33.59	\$18.88	\$52.47
Electricians	6/1/2018		\$34.24	\$19.45	\$53.69
Electricians	6/1/2019	5/31/2020	\$34.73	\$20.52	\$55.25
Electricians	6/1/2020	5/31/2021	\$35.25	\$21.59	\$56.84
Electricians	6/1/2021		\$35.83	\$22.66	\$58.49
Elevator Constructor	1/1/2018		\$45.35	\$33.00	\$78.35
Elevator Constructor	1/1/2020		\$48.33	\$39.11	\$87.44
Elevator Mechanic	1/1/2019		\$46.80	\$34.13	\$80.93
Glazier	5/1/2016		\$29.02	\$15.51	\$44.53
Glazier	5/1/2019	4/30/2020	\$29.57	\$17.36	\$46.93
Glazier	5/1/2020	4/30/2021	\$29.57	\$18.36	\$47.93

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-02574 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Glazier	5/1/2021		\$29.57	\$19.36	\$48.93
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2017		\$28.02	\$28.36	\$56.38
Iron Workers	6/1/2018		\$28.97	\$29.07	\$58.04
Iron Workers	6/1/2019		\$29.58	\$30.34	\$59.92
Laborers (Class 01 - See notes)	1/1/2018		\$18.47	\$16.49	\$34.96
Laborers (Class 01 - See notes)	1/1/2019		\$19.47	\$17.29	\$36.76
Laborers (Class 01 - See notes)	1/1/2020		\$20.47	\$17.29	\$37.76
Laborers (Class 02 - See notes)	1/1/2018		\$18.62	\$16.49	\$35.11
Laborers (Class 02 - See notes)	1/1/2020		\$21.22	\$17.29	\$38.51
Laborers (Class 02 - see notes)	1/1/2019		\$20.22	\$17.29	\$37.51
Laborers (Class 03 - See notes)	1/1/2018		\$18.72	\$16.49	\$35.21
Laborers (Class 03 - See notes)	1/1/2019		\$20.32	\$17.29	\$37.61
Laborers (Class 03 - See notes)	1/1/2020		\$21.32	\$17.29	\$38.61
Laborers (Class 04 - See notes)	1/1/2018		\$17.47	\$16.49	\$33.96
Laborers (Class 04 - See notes)	1/1/2019		\$18.47	\$17.29	\$35.76
Laborers (Class 04 - See notes)	1/1/2020		\$19.47	\$17.29	\$36.76
Landscape Laborer (Skilled)	1/1/2018		\$21.01	\$15.31	\$36.32
Landscape Laborer (Skilled)	1/1/2019		\$21.44	\$16.08	\$37.52
Landscape Laborer (Skilled)	1/1/2020		\$21.64	\$16.98	\$38.62
Landscape Laborer (Tractor Operator)	1/1/2018		\$21.31	\$15.31	\$36.62
Landscape Laborer (Tractor Operator)	1/1/2019		\$21.74	\$16.08	\$37.82
Landscape Laborer (Tractor Operator)	1/1/2020		\$21.94	\$16.98	\$38.92
Landscape Laborer	1/1/2018		\$20.59	\$15.31	\$35.90
Landscape Laborer	1/1/2019		\$21.02	\$16.08	\$37.10
Landscape Laborer	1/1/2020		\$21.22	\$16.98	\$38.20
Marble Mason	5/1/2018		\$29.88	\$16.01	\$45.89
Marble Mason	5/1/2019		\$30.46	\$16.43	\$46.89
Marble Mason	5/1/2020		\$31.02	\$16.87	\$47.89
Marble Mason	5/1/2021		\$31.55	\$17.34	\$48.89
Millwright	6/1/2017		\$39.83	\$18.57	\$58.40
Operators (Class 01 - see notes)	7/1/2017		\$30.17	\$17.42	\$47.59
Operators (Class 01 - see notes)	7/1/2018		\$30.72	\$18.12	\$48.84
Operators (Class 01 - see notes)	7/1/2019		\$31.27	\$18.82	\$50.09
Operators (Class 01 - see notes)	7/1/2020		\$31.87	\$19.57	\$51.44
Operators (Class 01 - see notes)	7/1/2021		\$32.47	\$20.32	\$52.79
Operators (Class 02 -see notes)	7/1/2017		\$26.45	\$17.42	\$43.87
Operators (Class 02 -see notes)	7/1/2018		\$26.75	\$18.12	\$44.87
Operators (Class 02 -see notes)	7/1/2019		\$27.05	\$18.82	\$45.87
Operators (Class 02 -see notes)	7/1/2020		\$27.45	\$19.57	\$47.02
Operators (Class 02 -see notes)	7/1/2021		\$27.85	\$20.32	\$48.17
Operators (Class 03 - See notes)	7/1/2017		\$25.30	\$17.42	\$42.72
Operators (Class 03 - See notes)	7/1/2018		\$25.50	\$18.12	\$43.62
Operators (Class 03 - See notes)	7/1/2019		\$25.70	\$18.82	\$44.52
Operators (Class 03 - See notes)	7/1/2020		\$26.00	\$19.57	\$45.57

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-02574 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Class 03 - See notes)	7/1/2021		\$26.30	\$20.32	\$46.62
Operators (Class 04 - Chief of Party (Surveying and Layout))	7/1/2016		\$23.65	\$16.77	\$40.42
Operators (Class 04 - Instrument Person (Surveying & Layout))	7/1/2016		\$22.65	\$16.77	\$39.42
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	7/1/2016		\$22.20	\$16.77	\$38.97
Painters Class 1 (see notes)	5/1/2017		\$27.25	\$18.17	\$45.42
Painters Class 1 (see notes)	5/1/2019		\$28.05	\$20.04	\$48.09
Painters Class 2 (see notes)	5/1/2017		\$30.15	\$18.17	\$48.32
Painters Class 2 (see notes)	5/1/2019		\$30.95	\$20.04	\$50.99
Painters Class 3 (see notes)	5/1/2017		\$36.25	\$18.17	\$54.42
Pile Driver Divers (Building, Heavy, Highway)	1/1/2018		\$50.33	\$18.55	\$68.88
Pile Driver Divers (Building, Heavy, Highway)	1/1/2019		\$51.45	\$19.30	\$70.75
Pile Driver Divers (Building, Heavy, Highway)	1/1/2020		\$53.10	\$19.70	\$72.80
Pile Driver Divers (Building, Heavy, Highway)	1/1/2021		\$54.75	\$20.10	\$74.85
Pile Driver Divers (Building, Heavy, Highway)	1/1/2022		\$56.40	\$20.50	\$76.90
Piledrivers	1/1/2018		\$33.55	\$18.55	\$52.10
Piledrivers	1/1/2019		\$34.30	\$19.30	\$53.60
Piledrivers	1/1/2020		\$35.40	\$19.70	\$55.10
Piledrivers	1/1/2021		\$36.50	\$20.10	\$56.60
Piledrivers	1/1/2022		\$37.60	\$20.50	\$58.10
Plasterers	6/1/2017		\$27.30	\$9.66	\$36.96
Plasterers	6/1/2018		\$27.25	\$10.71	\$37.96
Plasterers	6/1/2019		\$28.29	\$11.07	\$39.36
Plumber/Pipefitter	5/1/2017		\$35.82	\$24.51	\$60.33
Plumber/Pipefitter	5/1/2018		\$36.87	\$25.26	\$62.13
Plumber/Pipefitter	5/1/2019		\$37.52	\$26.41	\$63.93
Roofers	6/1/2017		\$27.50	\$19.08	\$46.58
Roofers	5/1/2019		\$29.50	\$19.81	\$49.31
Sheet Metal Workers	5/1/2017		\$30.61	\$22.95	\$53.56
Sheet Metal Workers	5/1/2018		\$30.63	\$23.73	\$54.36
Sheet Metal Workers	5/1/2019		\$30.79	\$25.07	\$55.86
Sprinklerfitters	4/1/2017		\$37.40	\$21.74	\$59.14
Sprinklerfitters	4/1/2018		\$38.80	\$22.74	\$61.54
Terrazzo Finisher	5/1/2017		\$31.64	\$15.62	\$47.26
Terrazzo Finisher	5/1/2018		\$32.35	\$15.91	\$48.26
Terrazzo Finisher	5/1/2019		\$33.04	\$16.22	\$49.26
Terrazzo Setter	5/1/2016		\$30.00	\$18.48	\$48.48
Terrazzo Setter	5/1/2017		\$30.63	\$18.85	\$49.48
Terrazzo Setter	5/1/2018		\$31.23	\$19.25	\$50.48
Terrazzo Setter	5/1/2019		\$31.81	\$19.67	\$51.48
Tile & Marble Finisher	5/1/2017		\$26.89	\$13.86	\$40.75
Tile & Marble Finisher	5/1/2018		\$27.60	\$14.15	\$41.75
Tile & Marble Finisher	5/1/2019		\$28.29	\$14.46	\$42.75

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-02574 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Tile & Marble Finisher	5/1/2020		\$28.96	\$14.79	\$43.75
Tile & Marble Finisher	5/1/2021		\$29.61	\$15.14	\$44.75
Tile Setter	5/1/2017		\$29.27	\$15.62	\$44.89
Tile Setter	5/1/2018		\$29.88	\$16.01	\$45.89
Tile Setter	5/1/2019		\$30.46	\$16.43	\$46.89
Tile Setter	5/1/2020		\$31.02	\$16.87	\$47.89
Tile Setter	5/1/2021		\$31.55	\$17.34	\$48.89
Truckdriver class 1(see notes)	1/1/2016		\$27.44	\$16.51	\$43.95
Truckdriver class 1(see notes)	1/1/2020		\$29.79	\$20.13	\$49.92
Truckdriver class 1(see notes)	1/1/2021		\$30.54	\$20.88	\$51.42
Truckdriver class 1(see notes)	1/1/2022		\$31.29	\$21.63	\$52.92
Truckdriver class 2 (see notes)	1/1/2016		\$27.61	\$16.61	\$44.22
Truckdriver class 2 (see notes)	1/1/2020		\$30.25	\$20.43	\$50.68
Truckdriver class 2 (see notes)	1/1/2021		\$31.00	\$21.18	\$52.18
Truckdriver class 2 (see notes)	1/1/2022		\$31.75	\$21.93	\$53.68
Truckdriver class 3 (see notes)	1/1/2016		\$28.10	\$16.88	\$44.98
Window Film / Tint Installer	6/1/2019		\$24.52	\$12.08	\$36.60

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-02574 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter	1/1/2020		\$34.77	\$18.92	\$53.69
Carpenter	1/1/2021		\$35.78	\$19.41	\$55.19
Carpenter	1/1/2022		\$37.02	\$19.92	\$56.94
Carpenter Welder	1/1/2017		\$33.10	\$17.14	\$50.24
Carpenter Welder	1/1/2018		\$33.87	\$17.77	\$51.64
Carpenter Welder	1/1/2019		\$34.72	\$18.42	\$53.14
Carpenter Welder	1/1/2020		\$35.72	\$18.92	\$54.64
Carpenter Welder	1/1/2021		\$36.73	\$19.41	\$56.14
Carpenter Welder	1/1/2022		\$37.72	\$19.92	\$57.64
Carpenters	1/1/2017		\$32.15	\$17.14	\$49.29
Carpenters	1/1/2018		\$32.92	\$17.77	\$50.69
Carpenters	1/1/2019		\$33.77	\$18.42	\$52.19
Cement Finishers	1/1/2017		\$30.14	\$19.40	\$49.54
Cement Finishers	1/1/2018		\$31.04	\$19.90	\$50.94
Cement Finishers	1/1/2019		\$31.94	\$20.50	\$52.44
Cement Masons	1/1/2020		\$32.84	\$21.10	\$53.94
Electric Lineman	1/1/2018		\$55.43	\$22.48	\$77.91
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2016		\$27.81	\$27.25	\$55.06
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2017		\$28.02	\$28.36	\$56.38
Laborers (Class 01 - See notes)	1/1/2017		\$24.75	\$20.95	\$45.70
Laborers (Class 01 - See notes)	1/1/2018		\$24.75	\$22.35	\$47.10
Laborers (Class 01 - See notes)	1/1/2019		\$24.75	\$23.85	\$48.60
Laborers (Class 01 - See notes)	1/1/2020		\$26.00	\$24.10	\$50.10
Laborers (Class 01 - See notes)	1/1/2021		\$26.80	\$24.80	\$51.60
Laborers (Class 01 - See notes)	1/1/2022		\$27.60	\$25.50	\$53.10
Laborers (Class 02 - See notes)	1/1/2017		\$24.91	\$20.95	\$45.86
Laborers (Class 02 - See notes)	1/1/2018		\$24.91	\$22.35	\$47.26
Laborers (Class 02 - See notes)	1/1/2019		\$24.91	\$23.85	\$48.76
Laborers (Class 02 - See notes)	1/1/2020		\$26.16	\$24.10	\$50.26
Laborers (Class 02 - See notes)	1/1/2021		\$26.96	\$24.80	\$51.76
Laborers (Class 02 - See notes)	1/1/2022		\$27.76	\$25.50	\$53.26
Laborers (Class 03 - See notes)	1/1/2017		\$25.40	\$20.95	\$46.35
Laborers (Class 03 - See notes)	1/1/2018		\$25.40	\$22.35	\$47.75
Laborers (Class 03 - See notes)	1/1/2019		\$25.40	\$23.85	\$49.25
Laborers (Class 03 - See notes)	1/1/2020		\$26.65	\$24.10	\$50.75
Laborers (Class 03 - See notes)	1/1/2021		\$27.45	\$24.80	\$52.25
Laborers (Class 03 - See notes)	1/1/2022		\$28.25	\$25.50	\$53.75
Laborers (Class 04 - See notes)	1/1/2017		\$25.85	\$20.95	\$46.80
Laborers (Class 04 - See notes)	1/1/2018		\$25.85	\$22.35	\$48.20
Laborers (Class 04 - See notes)	1/1/2019		\$25.85	\$23.85	\$49.70
Laborers (Class 04 - See notes)	1/1/2020		\$27.10	\$24.10	\$51.20
Laborers (Class 04 - See notes)	1/1/2022		\$28.70	\$25.50	\$54.20
Laborers (Class 05 - See notes)	1/1/2017		\$26.26	\$20.95	\$47.21

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-02574 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 05 - See notes)	1/1/2018		\$26.26	\$22.35	\$48.61
Laborers (Class 05 - See notes)	1/1/2019		\$26.26	\$23.85	\$50.11
Laborers (Class 05 - See notes)	1/1/2020		\$27.51	\$24.10	\$51.61
Laborers (Class 05 - See notes)	1/1/2021		\$28.31	\$24.80	\$53.11
Laborers (Class 05 - See notes)	1/1/2022		\$29.11	\$25.50	\$54.61
Laborers (Class 06 - See notes)	1/1/2017		\$23.10	\$20.95	\$44.05
Laborers (Class 06 - See notes)	1/1/2018		\$23.10	\$22.35	\$45.45
Laborers (Class 06 - See notes)	1/1/2019		\$23.10	\$23.85	\$46.95
Laborers (Class 06 - See notes)	1/1/2020		\$24.35	\$24.10	\$48.45
Laborers (Class 06 - See notes)	1/1/2021		\$25.15	\$24.80	\$49.95
Laborers (Class 06 - See notes)	1/1/2022		\$25.95	\$25.50	\$51.45
Laborers (Class 07 - See notes)	1/1/2017		\$25.75	\$20.95	\$46.70
Laborers (Class 07 - See notes)	1/1/2018		\$25.75	\$22.35	\$48.10
Laborers (Class 07 - See notes)	1/1/2019		\$25.75	\$23.85	\$49.60
Laborers (Class 07 - See notes)	1/1/2020		\$27.00	\$24.10	\$51.10
Laborers (Class 07 - See notes)	1/1/2021		\$27.80	\$24.80	\$52.60
Laborers (Class 07 - See notes)	1/1/2022		\$28.60	\$25.50	\$54.10
Laborers (Class 08 - See notes)	1/1/2017		\$27.25	\$20.95	\$48.20
Laborers (Class 08 - See notes)	1/1/2018		\$27.25	\$22.35	\$49.60
Laborers (Class 08 - See notes)	1/1/2019		\$27.25	\$23.85	\$51.10
Laborers (Class 08 - See notes)	1/1/2020		\$28.50	\$24.10	\$52.60
Laborers (Class 08 - See notes)	1/1/2021		\$29.30	\$24.80	\$54.10
Laborers (Class 08 - See notes)	1/1/2022		\$30.10	\$25.50	\$55.60
Operators (Class 01 - see notes)	1/1/2017		\$30.40	\$19.98	\$50.38
Operators (Class 01 - see notes)	1/1/2018		\$31.00	\$20.78	\$51.78
Operators (Class 01 - see notes)	1/1/2019		\$31.60	\$21.68	\$53.28
Operators (Class 01 - see notes)	1/1/2020		\$32.60	\$22.23	\$54.83
Operators (Class 01 - see notes)	1/1/2021		\$33.60	\$22.73	\$56.33
Operators (Class 01 - see notes)	1/1/2022		\$34.50	\$23.33	\$57.83
Operators (Class 02 -see notes)	1/1/2017		\$30.12	\$19.98	\$50.10
Operators (Class 02 -see notes)	1/1/2018		\$30.72	\$20.78	\$51.50
Operators (Class 02 -see notes)	1/1/2019		\$31.32	\$21.68	\$53.00
Operators (Class 02 -see notes)	1/1/2020		\$32.32	\$22.23	\$54.55
Operators (Class 02 -see notes)	1/1/2021		\$33.32	\$22.73	\$56.05
Operators (Class 02 -see notes)	1/1/2022		\$34.22	\$23.33	\$57.55
Operators (Class 03 - See notes)	1/1/2017		\$26.48	\$19.98	\$46.46
Operators (Class 03 - See notes)	1/1/2018		\$27.08	\$20.78	\$47.86
Operators (Class 03 - See notes)	1/1/2019		\$27.68	\$21.68	\$49.36
Operators (Class 03 - see notes)	1/1/2020		\$28.68	\$22.23	\$50.91
Operators (Class 03 - see notes)	1/1/2021		\$29.68	\$22.73	\$52.41
Operators (Class 03 - See notes)	1/1/2022		\$30.58	\$23.33	\$53.91
Operators (Class 04 - See notes)	1/1/2017		\$25.99	\$19.98	\$45.97
Operators (Class 04 - See notes)	1/1/2018		\$26.59	\$20.78	\$47.37
Operators (Class 04 - See notes)	1/1/2019		\$27.19	\$21.68	\$48.87

**BUREAU OF LABOR LAW COMPLIANCE
PREVAILING WAGES PROJECT RATES**

Project: 20-02574 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators (Class 04 - See notes)	1/1/2020		\$28.19	\$22.23	\$50.42
Operators (Class 04 - See notes)	1/1/2021		\$29.19	\$22.73	\$51.92
Operators (Class 04 - See notes)	1/1/2022		\$30.09	\$23.33	\$53.42
Operators (Class 05 - See notes)	1/1/2017		\$25.78	\$19.98	\$45.76
Operators (Class 05 - See notes)	1/1/2018		\$26.38	\$20.78	\$47.16
Operators (Class 05 - See notes)	1/1/2019		\$26.98	\$21.68	\$48.66
Operators (Class 05 - See notes)	1/1/2020		\$27.98	\$22.23	\$50.21
Operators (Class 05 - See notes)	1/1/2021		\$28.98	\$22.73	\$51.71
Operators (Class 05 - See notes)	1/1/2022		\$29.88	\$23.33	\$53.21
Painters Class 3 (see notes)	5/1/2019		\$37.05	\$20.04	\$57.09
Pile Driver Divers (Building, Heavy, Highway)	1/1/2017		\$49.13	\$17.95	\$67.08
Pile Driver Divers (Building, Heavy, Highway)	1/1/2018		\$50.33	\$18.55	\$68.88
Pile Driver Divers (Building, Heavy, Highway)	1/1/2019		\$51.45	\$19.30	\$70.75
Pile Driver Divers (Building, Heavy, Highway)	1/1/2020		\$53.10	\$19.70	\$72.80
Pile Driver Divers (Building, Heavy, Highway)	1/1/2021		\$54.75	\$20.10	\$74.85
Pile Driver Divers (Building, Heavy, Highway)	1/1/2022		\$56.40	\$20.50	\$76.90
Piledrivers	1/1/2017		\$32.75	\$17.95	\$50.70
Piledrivers	1/1/2018		\$33.55	\$18.55	\$52.10
Piledrivers	1/1/2019		\$34.30	\$19.30	\$53.60
Piledrivers	1/1/2020		\$35.40	\$19.70	\$55.10
Piledrivers	1/1/2021		\$36.50	\$20.10	\$56.60
Piledrivers	1/1/2022		\$37.60	\$20.50	\$58.10
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2017		\$40.98	\$32.53	\$73.51
Truckdriver class 1(see notes)	1/1/2017		\$27.93	\$17.32	\$45.25
Truckdriver class 1(see notes)	1/1/2018		\$28.36	\$18.29	\$46.65
Truckdriver class 1(see notes)	1/1/2019		\$28.83	\$19.32	\$48.15
Truckdriver class 1(see notes)	1/1/2020		\$29.79	\$20.13	\$49.92
Truckdriver class 1(see notes)	1/1/2021		\$30.54	\$20.88	\$51.42
Truckdriver class 1(see notes)	1/1/2022		\$31.29	\$21.63	\$52.92
Truckdriver class 2 (see notes)	1/1/2017		\$28.10	\$17.42	\$45.52
Truckdriver class 2 (see notes)	1/1/2018		\$28.52	\$18.40	\$46.92
Truckdriver class 2 (see notes)	1/1/2019		\$28.99	\$19.43	\$48.42
Truckdriver class 2 (see notes)	1/1/2020		\$30.25	\$20.43	\$50.68
Truckdriver class 2 (see notes)	1/1/2021		\$31.00	\$21.18	\$52.18
Truckdriver class 2 (see notes)	1/1/2022		\$31.75	\$21.93	\$53.68
Truckdriver class 3 (see notes)	1/1/2017		\$28.57	\$17.71	\$46.28
Truckdriver class 3 (see notes)	1/1/2018		\$28.98	\$18.70	\$47.68
Truckdriver class 3 (see notes)	1/1/2019		\$29.45	\$19.73	\$49.18

**PENNSYLVANIA GAME COMMISSION
CONDITIONS FOR CONSTRUCTION CONTRACTS**

The Contractor shall comply with the conditions listed below for this construction contract.

1. **Steel Products Procurement Act**

In accordance with the Act of March 3, 1978 (P.L. 6, No. 3), as amended, known as the "Steel Products Procurement Act" (73 P.S. Section 1881 et seq.), the Contractor, subcontractors, material men, or suppliers shall use only steel products produced in the United States. "Steel products" mean products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed by a combination of two or more of such operations, from steel made in the United States by the open hearth, basic oxygen, electric furnace, Bessemer, or other steel making process, including cast iron products. With each shipment of steel or cast iron products delivered to the project site, the Contractor shall provide evidence to the Game Commission's field representative that such steel products comply with the Act. When Unidentified Steel Products are supplied, the Contractor must provide documentation which includes, but is not limited to: invoices, bills of lading, and mill certification that the steel was melted and manufactured in the United States, which establishes that the Contractor has fully complied with the Act. If a steel product is identifiable from its face, the Contractor must provide certification that it has fully complied with the Act.

The definition of steel products shall include machinery and equipment listed in United States Department of Commerce Standard Industrial Classification 25 (furniture and fixture), 35 (machinery, except electrical) and 37 (transportation equipment) and made of, fabricated from, or containing steel components. If a product contains both foreign and United States steel, such product shall be determined to be a United States steel product only if at least 75% of the cost of the articles, materials and supplies have been mined, produced or manufactured, as the case may be, in the United States. Transportation equipment shall be determined to be a United States steel product if it complies with Section 165 of Public Law 97-424 (96 Stat. 2136).

The Commission shall not provide for, or make any payments to, any person who has not complied with the Act. Any such payments made to any person by the Commission which should not have been made as a result of the Act shall be recoverable directly from the Contractor or subcontractor who did not comply with the Act. In addition to the above penalties, any person who willfully violates the provisions of the Act shall be subject to other penalties outlined in the Act.

2. **Trade Practices Act**

In accordance with the Act of July 23, 1968 (P.L. 686, No. 226), as amended, known as the "Trade Practices Act" (71 P.S. Section 773.101 et seq.) the Contractor shall not use or permit to be used in the work any aluminum or steel products made in a foreign country which is listed below as a foreign country which discriminates against aluminum or steel products manufactured in Pennsylvania. The countries of Brazil, Spain, South Korea, and Argentina have been found to discriminate against certain products manufactured in Pennsylvania. Therefore, the use of those countries' products, as listed below, are not permitted:

- a. Brazil: welded carbon steel pipes and tubes; carbon steel wire rod; tool steel; certain stainless steel products including hot-rolled stainless steel bar; stainless steel wire rod and cold-formed stainless steel bar; prestressed concrete steel wire strand; hot-rolled carbon steel plate in coil; hot-rolled carbon steel sheet; and cold-rolled carbon steel sheet.
- b. Spain: certain stainless steel products, including stainless steel wire rod, hot-rolled stainless steel bars; and cold-formed stainless steel bars; prestressed concrete steel wire strand; and certain steel products including hot-rolled steel plate, cold-rolled carbon steel plate, carbon steel structural shapes, galvanized carbon steel sheet, hot-rolled carbon steel bars, and cold-formed carbon steel bars.
- c. South Korea: welded carbon steel pipes and tubes; hot-rolled carbon steel plate; hot-rolled carbon steel sheet; and galvanized steel sheet.
- d. Argentina: carbon steel wire rod and cold-rolled carbon steel sheet.

Penalties for violation of this paragraph may be found in the Trade Practices Act, which penalties include becoming ineligible for public works contracts for a period of three (3) years. This paragraph in no way relieves the Contractor of responsibility to comply with the provisions of the Steel Products Procurement Act described herein.

3. **Reciprocal Limitations Act**

The form GSPUR89 (Reciprocal Limitations Act Requirements) is attached. The Contractor shall complete the applicable portions of pages 3 and 4 of the form and submit the completed pages to the Game Commission for processing of the purchase order for the project.

**RECIPROCAL LIMITATIONS ACT
REQUIREMENTS**

Please Complete Applicable Portion of Pages 3 & 4 and Return with Bid.

NOTE: These Requirements Do Not Apply To Bids Under \$10,000.00

I. REQUIREMENTS

- A.** The Reciprocal Limitations Act requires the Commonwealth to give preference to those bidders offering supplies produced, manufactured, mined or grown in Pennsylvania as against those bidders offering supplies produced, manufactured, mined or grown in any state that gives or requires a preference to supplies produced, manufactured, mined or grown in that state. The amount of the preference shall be equal to the amount of the preference applied by the other state for that particular supply.

The following is a list of states which have been found by the Department of General Services to have applied a preference for in-state supplies and the amount of the preference:

STATE	PREFERENCE
1. Alaska	7% (applies only to timber, lumber, and manufactured lumber products originating in the state)
2. Arizona	5% (construction materials produced or manufactured in the state only)
3. Hawaii	10%
4. Illinois	10% for coal only
5. Iowa	5% for coal only
6. Louisiana	4% meat and meat products 4% catfish 10% milk & dairy products 10% steel rolled in Louisiana 7% all other products
7. Montana	5% for residents * 3% for non-residents* *offering in-state goods, supplies, equipment and materials
8. New Mexico	5%
9. New York	3% for purchase of food only
10. Oklahoma	5%
11. Virginia	4% for coal only
12. Washington	5% (fuels mined or produced in the state only)
13. Wyoming	5%

- B.** The Reciprocal Limitations Act requires the Commonwealth to give preference to those bidders offering printing performed in Pennsylvania as against those bidders offering printing performed in any state that gives or requires a preference to printing performed in that state. The amount of the preference shall be equal to the amount of the preference applied by the other state for that particular category of printing.

The following is a list of states which have been found by the Department of General Services to have applied a preference for in-state printing and the amount of the preference:

STATE	PREFERENCE
1. Hawaii	15%
2. Idaho	10%
3. Louisiana	3%
4. Montana	8%
5. New Mexico	5%
6. Wyoming	10%

- C.** The Reciprocal Limitations Act, also requires the Commonwealth to give resident bidders a preference against a nonresident bidder from any state that gives or requires a preference to bidders from that state or exclude bidders from states that exclude nonresident bidders. The amount of the preference shall be equal to the amount of the preference applied by the state of the nonresident bidder. The following is a list of the states which have been found by the Department of General Services to have applied a preference for in-state bidders and the amount of the preference:

STATE	PREFERENCE
1. Alaska	5% (supplies only)
2. Arizona	5% (construction materials from Arizona resident dealers only)
3. California	5% (for supply contracts only in excess of \$100,000.00)
4. Connecticut	10% (for supplies only)
5. Montana	3%
6. New Mexico	5% (for supplies only)
7. South Carolina	2% (under \$2,500,000.00) 1% (over \$2,500,000.00)
This preference does not apply to construction contracts nor where the price of a single unit exceeds \$10,000.	
8. West Virginia	2.5% (for the construction, repair or improvement of any buildings)
9. Wyoming	5%

STATE	PROHIBITION
1. New Jersey	For supply procurements or construction projects restricted to Department of General Services Certified Small Businesses, New Jersey bidders shall be excluded from award even if they themselves are Department of General Services Certified Small Businesses.

D. The Reciprocal Limitations Act also requires the Commonwealth not to specify, use or purchase supplies which are produced, manufactured, mined or grown in any state that prohibits the specification for, use, or purchase of such items in or on its public buildings or other works, when such items are not produced, manufactured, mined or grown in such state. The following is a list of the states which have been found by the Department of General Services to have prohibited the use of out-of-state supplies:

STATE	PROHIBITION
1. Alabama	Only for printing and binding involving "messages of the Governor to the Legislature", all bills, documents and reports ordered by and for the use of the Legislature or either house thereof while in session; all blanks, circulars, notices and forms used in the office of or ordered by the Governor, or by any state official, board, commission, bureau or department, or by the clerks of the supreme court . . . /and other appellate courts/; and all blanks and forms ordered by and for the use of the Senate and Clerk or the House of Representatives, and binding the original records and opinions of the Supreme Court . . . /and other appellate courts/
2. Georgia	Forest products only
3. Indiana	Coal
4. Michigan	Printing
5. New Mexico	Construction
6. Ohio	Only for House and Senate bills, general and local laws, and joint resolutions; the journals and bulletins of the Senate and house of Representatives and reports, communications, and other documents which form part of the journals; reports, communications, and other documents ordered by the General Assembly, or either House, or by the executive department or elective state officers; blanks, circulars, and other work for the use of the executive departments, and elective state officers; and opinions of the Attorney General.
7. Rhode Island	Only for food for state institutions.

*If the bid discloses that the bidder is offering to supply one of the above-listed products that is manufactured, mined, or grown in the listed state, it shall be rejected. Contractors are prohibited from supplying these items from these states.

II. CALCULATION OF PREFERENCE

In calculating the preference, the amount of a bid submitted by a Pennsylvania bidder shall be reduced by the percentage preference which would be given to a nonresident bidder by its state of residency (as found by the Department of General Services in Paragraph C_{above}). Similarly, the amount of a bid offering Pennsylvania goods, supplies, equipment or materials shall be reduced by the percentage preference which would be given to another bidder by the state where the goods, supplies, equipment or materials are produced, manufactured, mined or grown (as found by the Department of General Services in Paragraphs A and B above).

THIS FORM MUST BE COMPLETED AND RETURNED WITH THE BID

III. STATE OF MANUFACTURE

All bidders must complete the following chart by listing the name of the manufacturer and the state (or foreign country) of manufacture for each item. If the item is domestically produced, the bidder must indicate the state in the United States where the item will be manufactured. **This chart must be completed and submitted with the bid or no later than two (2) business days after notification from the Issuing Office to furnish the information. Failure to complete this chart and provide the required information prior to the expiration of the second business day after notification shall result in the rejection of the bid.**

ITEM NUMBER	NAME OF MANUFACTURER	STATE (OR FOREIGNCOUNTRY) OF MANUFACTURE

IV. BIDDER'S RESIDENCY

A. In determining whether the bidder is a nonresident bidder from a state that gives or requires a preference to bidders from that state, the address given on the first page of this invitation to bid shall be used by the Commonwealth. If that address is incorrect, or if no address is given, the correct address should be provided in the space below:

Correct Address: _____

B. In order to claim the preference provided under Section I.B., Pennsylvania resident bidders must complete the following or have such information on file with the Issuing Office:

1. Address of bidder's bona fide establishment in Pennsylvania at which it was transacting business on the date when bids for this contract/requisition were first solicited: _____

2. a. If the bidder is a corporation:

(1) The corporation is or is not incorporated under the laws of the Commonwealth of Pennsylvania.

(a) If the bidder is incorporated under the laws of the Commonwealth of Pennsylvania, provide date of incorporation: _____

(b) If the bidder is not incorporated under the laws of the Commonwealth of Pennsylvania, it must have a certificate of authority to do business in the Commonwealth of Pennsylvania from the Pennsylvania Department of State as required by the Pennsylvania Business Corporation Law (15 P.S. §2001). Provide date of issuance of certificate of authority: _____

(2) The corporation is or is not conducting business in Pennsylvania under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, it must register the fictitious name with the Secretary of the Commonwealth and the office of the prothonotary of the county wherein the registered office of such corporation is located as required by the Fictitious Corporate Name Act, as amended 15 P.S. §51 et seq. Corporate bidders conducting business under an assumed or fictitious name must provide date of registry of the assumed or fictitious name: _____

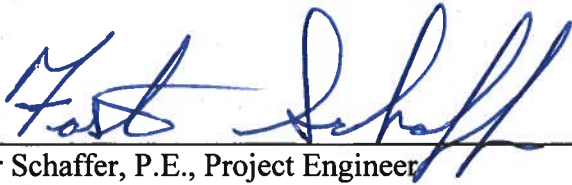
b. If the bidder is a partnership:

(1) The partnership is or is not conducting business in Pennsylvania under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, it must file with the Secretary of the Commonwealth and the office of the prothonotary the county wherein the principal place of business is located as required by the Fictitious Name Act of May 24, 1945, P.L. 967, as amended 54 P.S. §28.1. Partnerships conducting business under an assumed or fictitious name must provide the date of filing of the assumed or fictitious name with the Secretary of the Commonwealth: _____

(2) The partnership is or is not a limited partnership formed under the laws of any jurisdiction other than the Commonwealth of Pennsylvania. If the bidder is an Out-of-state limited partnership, it must register with the Pennsylvania Department of State as required by the Act of July 10, 1981, P.L. 237, as amended, 59 Pa. C.S.A. §503. Out-of-state limited partnerships must provide the date of registry with the Pennsylvania Department of State: _____

c. If the bidder is an individual:

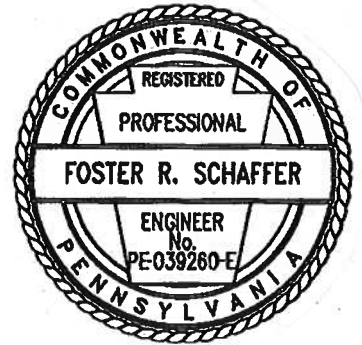
He or she is or is not conducting business under an assumed or fictitious name. If the bidder is conducting business under an assumed or fictitious name, he or she must file with the Secretary of the Commonwealth and the office of the prothonotary in the county wherein the principal place of business is located as required by the Fictitious Name Act of May 24, 1945, P.L. 967, as amended, 54 P.S. §28.1. Individuals conducting business under an assumed or fictitious name must provide the date of filing of the assumed or fictitious name with the Secretary of the Commonwealth: _____



3/25/20

Foster Schaffer, P.E., Project Engineer
Pennsylvania Game Commission

Date



TECHNICAL SPECIFICATIONS

The following stipulations, specifications and description of work are defined and described as Technical Specifications and it is understood and agreed that everything herein contained is hereby made part of the contract. Wherever any feature of the work is not fully set forth in these Technical Specifications, it must be understood that the same shall be governed by the rules of the best prevailing practice for that class of work, as determined by the Game Commission's Representative.

These Technical Specifications and any drawings, maps and/or plans forming a part thereof, will cover the furnishing of all labor, technical assistance, equipment, tools and materials necessary to perform the design and construction work, as required under this contract.

- Section 1 – Summary of Work
- Section 2 – Erosion and Sedimentation Control
- Section 3 – Clearing and Grubbing
- Section 4 – Excavation
- Section 5 – Compacted Backfill
- Section 6 – AASHTO #10 Stone
- Section 7 – Target Upright Holders
- Section 8 – Drainage Ditches
- Section 9 – Chain Link Fence
- Section 10 - Seeding

DRAWINGS

The following drawings are included:

- 1 of 2 Location Map, Existing Conditions, Site Plan and Notes
- 2 of 2 Sections and Details

TECHNICAL SPECIFICATION SECTION 1 - SUMMARY OF WORK

1.1 – SCOPE OF PROJECT

The intent of this project is to construct a new law enforcement shooting range on State Game Lands #255, Beech Creek Township, Clinton County. The project consists of constructing earthen backstops and sideberms, placement of AASHTO #10 aggregate on the face of the backstop, placement of AASHTO #10 aggregate for target and shooting lines, installation of target upright holders, construction of drainage ditches, installation of chain link fence and seeding of the placed backstops and range floors.

1.2 – WORK AREA

The new shooting range is on State Game Lands #255 which is about 5 miles southwest from the town of Mill Hall. The project site is located off of Bald Eagle Mountain Road. The new range is in a cultivated field area adjacent to the PGC Clinton County maintenance buildings. The site is owned by the Pennsylvania Game Commission (PGC).

1.3 – WORK HOURS

The work hours at the project site are during regular PGC business hours which are Monday through Friday, 7:45AM to 4:00PM. Work during different hours must have prior written approval by the PGC. Requests for different working hours must be submitted in writing three days in advance.

1.4 – ACCESS TO WORK AREA

Access to the new range is from a gravel surface road and parking area which connects to Bald Eagle Mountain Road. The Contractor must keep the road and parking areas open to travel and repair any ruts or other damage caused by construction equipment.

1.5 – PROJECT LAYOUT

The PGC has placed a survey baseline with monuments (iron pins) at the site as shown on Drawing 1 of 2. The Contractor shall use these monuments to layout the proposed range features. The Contractor is responsible for horizontal and vertical layout and control using the monuments established by the PGC. All stakes, targets, grade markers, etc. used to establish locations and lines are the responsibility of the Contractor.

1.6 – PERMITS, LAWS AND REGULATIONS

An NPDES permit is not required for this project since the disturbed area is less than 1 acre. However; strict compliance with erosion and sedimentation control regulations is required. Refer to Section 2 of these Technical Specifications.

The Contractor shall comply with all laws, ordinances, rules, orders and regulations relating to the performance of the work, the protection of adjacent property, the maintaining of surface passageways, guard fences, and/or other protective facilities.

All applicable Federal and State laws and regulations, municipal ordinances and rules and regulations of all authorities, having jurisdiction over construction of the project shall apply to the contract throughout, and they shall be deemed to be included in the contract as a part, thereof, the same as though herein written out in full.

All regulations of the Occupational Safety and Health Act are in effect on this contract. It will be the Contractor's responsibility to make himself aware of all appropriate County, State and Federal regulations that apply to this contract.

Any violations incurred from improper execution of the above provisions shall be paid for by the Contractor. Loss of time on the project from such violations will not be tolerated.

1.7 – SCHEDULE

The Contract is to be completed by June 26, 2020. If the work is delayed by weather or other conditions beyond the contractor's control, the PGC will consider extending the completion date.

**TECHNICAL SPECIFICATION SECTION 2 - EROSION AND
SEDIMENTATION CONTROL**

2.1 -SCOPE

This work is implementing the erosion and sedimentation control measures contained on the drawings and described herein. Compliance with Chapter 102 of the Department of Environmental Protection's regulations is also required.

2.2 – PROCEDURE

Mark the limits of the site; make sure earthmoving operations are confined to these limits. Access the site from the gravel road and small parking area along the east edge of the project.

Install the silt sock along the uphill side of the existing drainage ditch along the northern edge of the site before any earth disturbance activities occur at the site. Maintain the silt sock for the duration of the project.

Immediately upon completion of any segment of the project, seed that area in accordance with Section 10 of the Technical Specifications. The Contractor with the approval of the Game Commission, perform temporary seeding operations in order to maintain finished grade areas until the optimum time for performing permanent seeding

Failure to implement soil erosion and sediment pollution control measures may result in a cease and desist order, causing shutdown of the work. No extension of time, nor additional compensation will be granted if such a shutdown should occur as a result of act or neglect of the Contractor.

2.3 - MEASUREMENT AND PAYMENT

Lump Sum for Seeding according to Section 10 of the Technical Specifications.

Linear Feet for the Silt Sock.

TECHNICAL SPECIFICATION SECTION 3 – CLEARING AND GRUBBING

3.1 -SCOPE

This work is removal and disposal of all trees and brush, fallen and standing in the project area. Most of the new range site is a grassy field area but some trees and brush in the middle and on the edge of the project area will need to be removed.

Clearing is cutting trees and brush so that stumps are no more than three inches above the ground. Grubbing is removal of stumps and roots at least twelve inches below finished grade.

3.2 - PROCEDURE

Before commencing clearing and grubbing operations, mark the limits of clearing and grubbing at the site to the dimensions shown on the drawings. Do not damage any plants or trees, natural growth, or other objects outside the areas to be cleared and grubbed.

Cut down the trees and brush in the project area. Cut the trees and brush so that the stumps are no more than three inches above the ground. Stumps must also be removed from the project area. Cleared and grubbed material can be stockpiled at the site in an area designated by the PGC. Merchantable logs are property of the Contractor and can be removed from the site. Burning is not permitted at the site.

3.3 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION 4 - EXCAVATION

4.1- SCOPE

This work is removal, hauling, and disposal of all materials encountered for construction of the new shooting range as indicated on the Drawings, or designated by the Game Commission.

4.2 - PROCEDURE

A. General - Follow all guidelines set forth in the Construction Industry Standards, OSHA 2207, of the Occupational Safety and Health Administration, U.S. Department of Labor. Protect the work, adjacent roadways, and property.

The Contractor is required to contact the PA One Call System at 8-1-1 prior to excavation operations at the site.

The Contractor is responsible for laying out the new shooting range and setting grade and line from the monuments provided by the PGC. Do not over-excavate because unauthorized excavation and replacement of materials in the over-excavated areas will not be measured and paid for. Replace over-excavated work with gravel, earth or other materials designated by, and at no additional cost to the Game Commission.

B. Excavation - Remove all materials to the limits shown on the Drawings or as necessary to construct the shooting range.

C. Disposal – Suitable excavated materials can be used for backfill of range features and construction of the earthen side-berms and backstop. The Contractor can stockpile the extra excavated material (if any) along the outside edges of the new backstop and sideberm embankments.

4.3 - MEASUREMENT AND PAYMENT

Measurement will be in cubic yards, measured by the average end area method or by three-dimensional volume method, as applicable.

Payment will be made at the contract unit price per cubic yard for "Excavation", which price shall include full compensation for the work described. No separate measurement or payment for repairing any damage at the existing parking area and access road.

TECHNICAL SPECIFICATION SECTION 5 – COMPACTED BACKFILL

5.1 - SCOPE

This work is constructing the earthen embankments that comprise the sideberms and backstop with materials obtained from the required excavation.

5.2 - MATERIALS

Secure materials necessary for construction of the side-berm and backstops from the required excavation on the project site. Materials shall be free from trash, roots, brush, frozen and other objectionable materials. The material can contain stones provided that the stones are smaller than 6-inches and are incorporated in the embankments under at least 12-inches of cover. The Game Commission will decide the material's suitability for use as embankment material during excavation operations.

5.3 - PROCEDURE

Place backstop material in the dry. Place material in layers not exceeding four (4) inches in depth and compact each layer with vibratory compactors. Where working clearances permit, backfill may be placed in layers not exceeding eight (8) inches in depth, and compacted with a roller or tracked equipment. Do not drop backfill materials, but scatter and bring up evenly. Add water or dry the backfill materials as necessary to attain as close to the optimum moisture content as possible during compaction. No free water shall drain off and adversely affect the underlying or adjacent materials. Acceptable compaction will be determined on the basis of non-movement of the material under the compaction equipment. If the density and/or moisture content of the backfill is not satisfactory, replace and/or recompact the materials to the satisfaction of, and at no additional cost to the Game Commission.

Stones having dimensions greater than three inches must be removed from the top one foot layer on the faces of the side-berms and backstop exposed to the shooting line.

Shape the embankments so that the lines and grades conform to the dimensions and guidelines of the cross sections on the drawings. Smooth the surface for placement of erosion control blankets, aggregate or seed.

5.4 - MEASUREMENT AND PAYMENT

Measurement will be in cubic yards, measured by the average end area method or by three-dimensional volume method, as applicable.

Payment will be made at the contract unit price per cubic yard bid for "Compacted Backfill", which price shall include full compensation for the work described.

TECHNICAL SPECIFICATION SECTION 6 – AASHTO #10 STONE

6.1 - SCOPE

This work is placing stone on the face of the backstop, target line area and surfacing the shooting line area as shown on the Drawings.

6.2 - MATERIALS

Stone for the backstop faces, target line area and shooting line area shall be AASHTO #10 as specified in Section 703.2 of PennDOT Pub. 408.

Obtain the stone from a source listed in PennDOT Bulletin 14.

6.3 - PROCEDURE

Place stone in the dry. Place the stone in one layer and compact with a roller to the required minimum thickness of 4-inches for the shooting line area. Compaction of the stone shall be considered satisfactory on the basis of non-movement of the materials under compaction equipment.

Place the stone on the backstop face by pushing it up the slope or by dumping it down the slope. The width of stone placement shall conform to the dimensions shown on the drawings. Make sure the stone is placed to a depth of two feet on the backstop face. Place stone around or behind the target line to a depth of four inches as shown on the drawings. Rake or smooth the surface so that an even, uniform appearance is achieved. Compact the stone on the flat area around the target line areas with a roller. Compaction of the stone shall be considered satisfactory on the basis of non-movement of the materials under compaction equipment.

6.4 - MEASUREMENT AND PAYMENT

Cubic yards, measured by the average end area method or by three dimensional volume method, as applicable.

TECHNICAL SPECIFICATION SECTION 7 – TARGET UPRIGHT HOLDERS

7.1 -SCOPE

This work is installing new steel target upright holders in front of the backstop.

7.2 – MATERIALS

A – Concrete – PennDOT Class A concrete.

B – Formwork – 12-inch diameter cardboard tube (Sono Tube).

C – Metal Uprights – The uprights shall be fabricated from ASTM A36 steel plate.

7.3 - PROCEDURE

Grade the areas in front of the backstop. Mark the locations of the target upright holders before placement of the AASHTO #10 stone. Drill or auger the soil at the locations to the depth shown on the drawings and install the forms. Secure the formwork to prevent shifting during concrete placement operations.

Fabricate the target uprights according to the dimensions shown on the drawings. Use a laser cutter or water jet cutter to cut the steel pieces needed to fabricate the target uprights. Weld the horizontal plate to the bracket with a 3/8-inch fillet weld on both sides of the bracket where the plate attaches. Place the completed target uprights in the center of the forms. Check the alignment and spacing of the target uprights to ensure that they are in a straight alignment on 8-foot centers. Shift as necessary to meet the required dimensions. Holes must be re-augered if there are less than 4-inches of concrete outside the target uprights. Secure the target uprights so they will not shift during concrete placement operations.

Place concrete in the forms and rod as necessary to consolidate the concrete in the forms. Screed the concrete level with the top of the forms.

After the concrete has hardened, place AASHTO #10 for the target line area so that it is even and level with the top of the concrete in the target upright holders.

7.4 - MEASUREMENT AND PAYMENT

Each. No separate measurement or payment for excavation and backfill around the target upright holders. Concrete used for the upright holders will not be measured and paid for and the costs shall be considered incidental to the price bid for the target upright holders.

TECHNICAL SPECIFICATION SECTION 8 – DRAINAGE DITCHES

8.1 -SCOPE

This work is constructing drainage ditches along the edges of the shooting range embankments.

8.2 – MATERIALS

Turf Reinforcement Mat – Use composite turf reinforcement mat SC250 from North American Green.

8.3 - PROCEDURE

Shape the drainage ditches along the edges of the range according to the detail shown on the drawings. Smooth the bottom of the drainage ditches and remove any rocks, branches or debris that would interfere with placement of the turf reinforcement mat.

Install the turf reinforcement mat (TRM) according to the manufacturer's recommendations. Hold the TRM in place with staples.

8.4 - MEASUREMENT AND PAYMENT

Linear Feet.

TECHNICAL SPECIFICATION NO. 9 - CHAIN LINK FENCE

9.1 - SCOPE

This work is furnishing and installing chain link around the new shooting range as shown on the Drawings.

9.2 - MATERIALS

A - Fence - Fabric, posts, and hardware shall meet the following requirements:

- 1. - Fabric** - Fabric shall be Class 2b, PVC-coated, galvanized steel wire fabric, conforming to the requirements of ASTM F 668 with the following modifications: The steel wire shall be at least 9 gage. The color of the vinyl coating shall be forest green. The size of the mesh shall be 2 inches. The fabric shall be knuckled at both selvages. All cut ends shall be coated with vinyl, at the factory, during the weaving process.
- 2. - Posts** - Posts will be referred to as "terminal" or "line". Terminal posts include corner, angle, pull, and end posts. Line posts are also known as "intermediate" posts. Pipes for posts shall be of galvanized steel conforming with the requirements of either ASTM F 1083(Schedule 40) or ASTM F 1043(such as Allied SS 40 or equivalent) except that the weight of zinc coating shall not be less than 2 ounces per square foot. The nominal sizes of terminal and line posts shall not be less than 2-1/2 inches and 2 inches respectively.
- 3. - Top Rail** - Top rail shall not be less than 1-1/4 inch nominal size galvanized steel pipe conforming with the requirements of ASTM F 1083, Schedule 40, except that the weight of zinc coating shall not be less than 2 ounces per square foot.
- 4. - Bottom Wire** - Bottom wire shall be galvanized and vinyl-coated coil spring tension wire. The galvanized core wire shall not be less than 7 gage in size, and it shall be vinyl coated conforming to the same requirements as those of the fabric mentioned in Section 30.3A1 above.
- 5. - Braces** - When required, braces shall not be less than 1-1/4 inch nominal size galvanized steel pipe conforming with the requirements of ASTM F 1083, Schedule 40, except that the weight of zinc coating shall not be less than 2 ounces per square foot.
- 6. - Truss Rods** - When required, truss rods shall not be less than (3/8) inch diameter steel rods conforming with the requirements of ASTM F 626, except that the weight of the zinc coating shall not be less than 2 ounces per square foot. Truss rods shall be provided with suitable turnbuckles.
- 7. - Fittings** - All fittings shall conform with the requirements of ASTM F 626. Terminal post caps shall be fitted with stainless steel recessed allen wrench head set screws for anchoring the cap to the post.

8. – Hardware – All hardware (bolts, nuts, washers, etc.) shall be of commercial quality or better, and shall be galvanized in accordance with the requirements of AASHTO M 232.

B - Concrete Footings - Concrete footings for terminal posts shall be PennDOT Class A concrete.

In lieu of Class A concrete mentioned above, concrete made from dry, packaged, combined materials conforming to ASTM C 387 may be used. 28 days compressive strength of the concrete shall not be less than 3,300 psi. Store the materials in accordance with the manufacturer's recommendations.

9.3 - SHOP DRAWINGS, TESTS, AND CERTIFICATIONS

At least 5 days in advance of installation, submit shop drawings of fences to the PGC for review and approval. The shop drawings shall show type, size, and quality of all materials. Do not order any materials without the approval of the shop drawings.

9.4 - PROCEDURE

A – Placing Fence on Earth – Identify post locations. Auger footing holes (9-inch-diameter for line posts and 15-inch-diameter for terminal posts). The depth of holes for the line and terminal posts is 36-inches. Set posts, centered and plumb, on the bottom of the holes. Crown the finished surface of the concrete to shed water.

B – General – Install fence posts in proper horizontal alignment with the top of the posts in proper vertical alignment. Posts shall be equally spaced on 10-foot centers.

Insert top rails through the base of the line post caps, with expansion couplings joining the rails to form a continuous brace for each stretch of fence between terminal posts. Outside sleeve type expansion couplings shall be at least 6 inches long and shall be installed at spacings recommended by the manufacturer. Securely fasten the top rails to the terminal and gate posts by rail ends and brace bands. Install bottom wire as shown on the Drawings.

Braces will be required only when recommended by the manufacturer. Install braces at terminal and corner posts, midway between the top rail and the bottom wire, extending from the terminal or corner post to the adjacent line posts. Place the truss rods with turnbuckles between the brace end on the line post and the bottom wire end on the terminal post.

Securely fasten the fabric to all posts, top rail, and bottom wire at intervals of not more than 14 inches. Fasten fabric to the outside or most commonly seen side of the posts. Place fabric parallel to the base surface. The nominal distance between the base surface and the fabric shall be 2 inches and shall not exceed 3 inches.

At no additional cost to the PGC, repair or replace all damaged fence components; and apply a manufacturer recommended vinyl repair paint to all exposed surfaces of fabric wire.

9.5 - MEASUREMENT AND PAYMENT

Linear foot, measured from center to center of terminal posts.

No separate measurement or payment will be made for excavation, concrete footings and all other materials, and the costs of such shall be considered incidental to this work.

TECHNICAL SPECIFICATION SECTION 10 - SEEDING

10.1 - SCOPE

This work is securing a satisfactory stand of grass at the new range or where directed by the PGC, and includes preparation of the seed bed, furnishing and placing lime and fertilizer, furnishing and sowing of seed, mulching, and maintaining and tending the seeded areas.

10.2 - MATERIALS

Use Formula B grass seed mix on flat areas to be mowed in the future. Use Formula W grass seed mix on the backstop slopes and sideberm slopes. Use Formula E for temporary seeding to control erosion during construction. All seed mixes shall conform to Section 804.2(b) of PennDOT Pub. 408.

10.3 - PROCEDURE

Follow the applicable procedures listed in Section 804.3 of PennDOT Pub.408.

10.4 - MAINTENANCE

At no additional cost to the PGC, maintain the seeded areas until all work under the Contract has been completed and accepted by the PGC. Maintenance shall include refilling rain-washed gullies, reseeding, reapplying fertilizer, lime and mulch, and removal of large and noxious weeds, as directed by the PGC.

10.5 - MEASUREMENT AND PAYMENT

Lump Sum.