

PENNSYLVANIA GAME COMMISSION

SGL No. 043
SHOTGUN RANGE & PISTOL RANGE CONSTRUCTION
CONTACTOR SERVICES

SGL No. 043
Warwick Township
Chester County, Pennsylvania

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PROJECT SPECIFICATIONS

The Contractor shall comply with the *Contract Terms and Conditions* provided with the Bid Documents including but not limited to the following:

INSURANCE REQUIREMENTS – In accordance with the *Contract Terms and Conditions*, the Contractor is required to have in place during the term of the Contract and any renewals or extensions thereof, the following types of insurance, issued by companies acceptable to the Commonwealth and authorized to conduct such business under the laws of the Commonwealth of Pennsylvania:

- A. **Worker's Compensation Insurance** for all the Designer/Contractor's employees and those of any subcontractor, engaged in Work at the site of the project as required by law.

- B. **Builders Risk Insurance** the Designer/Contractor shall, until all physical on-site work is complete, maintain insurance on all insurable work included in the Contract against loss or damage by fire and lightning and those perils covered by the extended coverage endorsement. Insurable work includes work both interior and exterior of any building being constructed. The property insurance must include a Builder's Risk Policy or an installation floater that covers all risks. The risk of damage to the construction work is that of the Designer/Contractor and surety. No claims for such loss or damage will be recognized by the agency, nor will such loss or damage excuse the complete and satisfactory performance of the Contract by the Contractor. The Designer/Contractor and all subcontractors are required to produce certificates of insurance, naming the Commonwealth of Pennsylvania and Pennsylvania Game Commission as an additional insured.

- C. **Public Liability and Property Damage Insurance** to protect the Commonwealth, the Designer/Contractor, and any and all subcontractors from claims for damages for personal injury (including bodily injury), sickness or disease, accidental death and damage to property including the loss of use resulting from any property damage, which may arise from the activities performed under the Contract or the failure to perform under the Contract, whether such performance or non-performance be by the Designer/Contractor, by any subcontractor, or by anyone directly or indirectly employed by either. **The minimum amounts of coverage shall be \$250,000 per person and \$1,000,000 per occurrence for bodily injury, including death, and \$250,000 per person and \$1,000,000 per occurrence for property damage.** Such policies shall be occurrence rather than claims-made policies and shall not contain any endorsements or any other form designated to limit and restrict any action by the Commonwealth, as an additional insured, against the insurance coverage in regard to Work performed for the Commonwealth.

Prior to commencement of the Work under the Contract and at each insurance renewal date during the term of the Contract, the Contractor shall provide the Commonwealth with current certificates of insurance. **These certificates or policies shall name the Commonwealth AND Pennsylvania Game Commission as additional insured and shall contain a provision that the coverage's afforded under the policies will not be cancelled or changed until at least thirty (30) days written notice has been given to the Commonwealth.**

COMPLIANCE WITH LAW – The Contractor shall comply with all applicable federal and state laws and regulations and local ordinances in the performance of the Contract.

WORKMANSHIP - All Work shall be performed in a Workmanlike manner and all materials and labor shall be in strict and entire conformity with the Drawings and Specifications.

INSPECTION AND CHANGES - All Work is subject to review and acceptance by the Pennsylvania Game Commission. Any Work rejected as unsatisfactory or unsuitable shall be redesigned and resubmitted with suitable design at the sole cost of the designer to the complete satisfaction of the Game Commission.

Changes shall be in accordance with the *Contract Terms and Conditions*.

TEMPORARY SERVICES AND JOB CONDITIONS - The Contractor shall be responsible for providing all internal software and site layout necessary to execute and perform the work. The designer shall accept all conditions as found upon examination of the site and shall coordinate, plan, and execute the Work accordingly. The Contractor shall cooperate in the arrangements of the work as necessary to least affect the administration or operations of existing buildings, facilities, and infrastructure. The Contractor shall keep the Work site clean at all times

PREVAILING WAGE – Prevailing minimum wages apply to this project. See *Contract Terms and Conditions* and Attached Prevailing Wage Determination.

PAYMENT TERMS - A schedule of values is provided with the bid. Payment will be made on a monthly basis upon satisfactory completion of items listed on the Schedule of Values and in accordance with the *Contract Terms and Conditions*.

All payments due to the Contractor shall be processed after all Work has been inspected and approved by an agent of the Pennsylvania Game Commission. Payment will not be made for Work that is not progressing satisfactorily or for unsuitable or defective Work.

Payments may be withheld for failure to provide required documentation for the project including but not limited to required submittals / shop drawings and weekly submission of Certified Payrolls.

INVOICING – All Project invoices shall be submitted directly to:

Mr. Austin Kieffer, P.E., Chief of Engineering
Pennsylvania Game Commission

2001 Elmerton Avenue
Harrisburg PA 17110
Office: 717-787-4250 Ext:73613
Email: akieffer@pa.gov

All invoices must be submitted in black and white with no color and shaded areas. Invoices must include the Purchase Order Number, Contractor's SAP Vendor Number, Dates of services and the Contractor's name and address as listed on the Purchase Order. Payment items on invoices shall match the items on the Purchase Order. Failure to submit invoices that meet these requirements will result in a delay of payment.

***Please Note:** Vendors are reminded to **NOT** include employer identification numbers, Social Security Numbers, bank account information, or other personally identifiable information on their invoices. That information is uniquely tied to your SAP Vendor Number and, for security purposes, should not be explicitly stated on an invoice.*

CONTRACT TERM - The Contract shall commence upon delivery of Purchase Order to Contractor and shall terminate on June 30, 2024. Contract time is of the essence of the Project. All Work must be completed and accepted by this date.

EXCISE TAXES, PENNSYLVANIA SALES TAX - The Commonwealth is exempt from all Excise Taxes. See *Contract Terms and Conditions*.

OFFSET PROVISION - The Designer/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.

PERFORMANCE SECURITY / CONTRACT BONDS – Within 10 days after award of the purchase order, the Bidder to whom the Contract is awarded, shall provide **Contract Performance Security** and a **Payment Bond** in a form acceptable to the Commonwealth for the amounts listed below and in accordance with the *Contract Terms and Conditions*.

A **Performance Bond** at one hundred percent (100%) of the contract amount, conditioned upon the faithful performance of the contract in accordance with the plans, specifications, and conditions of the contract.

A **Payment Bond** in an amount equal to one hundred percent (100%) of the contract amount.

Performance and Payment Bonds shall be executed by a surety company authorized to do business in the Commonwealth and listed on the current U.S. Dept. of Treasury, Bureau of Fiscal Service, Department Circular 570 (<https://fiscal.treasury.gov/surety-bonds/list-certified-companies.html>). Bonds shall include a current Power of Attorney dated the same as the date of the bond. Bonds shall be made payable to the Commonwealth.

GUARANTY / WARRANTY – See *Contract Terms and Conditions* – all items are warranted for a period of one year following delivery by the Contractor and acceptance by the Commonwealth.

ADDENDA TO THE INVITATION FOR BID (IFB) – See *Contract Terms and Conditions* – If the issuing office deems it necessary to revise any part of this IFB before the bid response date, the issuing office will post an addendum to the DGS website at www.emarketplace.state.pa.us. It is the Contractor's responsibility to periodically check the website for any new information or addenda to the IFB.

HOLD HARMLESS PROVISION - See *Contract Terms and Conditions* - The Contractor shall hold the Commonwealth harmless from and indemnify the Commonwealth against any and all third party claims, demands and actions based upon or arising out of any activities performed by the Contractor and its employees and agents under this Contract, provided the Commonwealth gives Contractor prompt notice of any such claim of which it learns.

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

Project Name:	SGL 043 Range Expansion
Awarding Agency:	PA Game Commission
Contract Award Date:	7/12/2024
Serial Number:	24-02320
Project Classification:	Highway
Determination Date:	3/8/2024
Assigned Field Office:	Philadelphia
Field Office Phone Number:	(215)560-1858
Toll Free Phone Number:	
Project County:	Chester County

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

Project: 24-02320 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Asbestos & Insulation Workers	6/1/2023		\$57.84	\$43.36	\$101.20
Boilermakers	3/1/2018		\$45.89	\$33.73	\$79.62
Bricklayer	5/1/2023		\$47.50	\$31.42	\$78.92
Carpenter - Chief of Party (Surveying & Layout)	5/1/2023		\$50.57	\$29.02	\$79.59
Carpenter - Chief of Party (Surveying & Layout)	5/1/2024		\$52.58	\$29.02	\$81.60
Carpenter - Chief of Party (Surveying & Layout)	5/1/2025		\$54.59	\$29.02	\$83.61
Carpenter - Instrument Person (Surveying & Layout)	5/1/2023		\$43.97	\$29.02	\$72.99
Carpenter - Instrument Person (Surveying & Layout)	5/1/2024		\$45.72	\$29.02	\$74.74
Carpenter - Instrument Person (Surveying & Layout)	5/1/2025		\$47.47	\$29.02	\$76.49
Carpenter - Rodman (Surveying & Layout)	5/1/2023		\$21.99	\$20.62	\$42.61
Carpenter - Rodman (Surveying & Layout)	5/1/2024		\$22.86	\$20.62	\$43.48
Carpenter - Rodman (Surveying & Layout)	5/1/2025		\$23.74	\$20.62	\$44.36
Carpenters	5/1/2023		\$43.97	\$29.02	\$72.99
Carpenters	5/1/2024		\$45.72	\$29.02	\$74.74
Carpenters	5/1/2025		\$47.47	\$29.02	\$76.49
Cement Finishers & Plasterers	5/1/2022		\$38.57	\$32.39	\$70.96
Cement Masons	5/1/2023		\$44.20	\$32.96	\$77.16
Dockbuilder, Pile Drivers	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder, Pile Drivers	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder, Pile Drivers	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder, Pile Drivers	5/1/2026		\$56.98	\$37.99	\$94.97
Dockbuilder/Pile Driver Diver	5/1/2023		\$58.41	\$41.74	\$100.15
Dockbuilder/Pile Driver Diver	5/1/2024		\$61.54	\$41.74	\$103.28
Dockbuilder/Pile Driver Diver	5/1/2025		\$64.35	\$41.74	\$106.09
Dockbuilder/Pile Driver Diver	5/1/2026		\$66.54	\$41.74	\$108.28
Dockbuilder/pile driver tender	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder/pile driver tender	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder/pile driver tender	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder/pile driver tender	5/1/2026		\$56.98	\$37.99	\$94.97
Drywall Finisher	5/1/2023		\$38.77	\$31.12	\$69.89
Electricians	5/29/2023		\$49.24	\$36.04	\$85.28
Electricians	6/3/2024		\$50.17	\$38.87	\$89.04
Electricians	6/2/2025		\$52.71	\$40.07	\$92.78
Electricians	6/1/2026		\$55.25	\$41.28	\$96.53
Elevator Constructor	1/1/2023		\$66.21	\$43.64	\$109.85
Elevator Constructor	1/1/2024		\$68.97	\$44.70	\$113.67
Floor Coverer	5/1/2023		\$50.12	\$29.21	\$79.33
Floor Coverer	5/1/2024		\$52.19	\$29.21	\$81.40
Glazier	5/1/2023		\$46.68	\$36.62	\$83.30
Interior Finish	5/1/2023		\$34.60	\$25.80	\$60.40
Iron Workers (Bridge, Structural, Ornamental, Precast)	1/1/2023		\$50.70	\$39.51	\$90.21
Iron Workers (Riggers)	7/1/2023		\$42.53	\$34.14	\$76.67
Iron Workers (Rodman/Reinforcing)	7/1/2023		\$45.70	\$34.77	\$80.47
Laborers (Class 01 - See notes)	5/1/2022		\$33.35	\$25.65	\$59.00

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

Project: 24-02320 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 01 - See notes)	5/1/2023		\$34.60	\$25.80	\$60.40
Laborers (Class 02 - See notes)	5/1/2022		\$36.70	\$27.00	\$63.70
Laborers (Class 02 - See notes)	5/1/2023		\$37.95	\$27.30	\$65.25
Laborers (Class 03 - See notes)	5/1/2022		\$33.77	\$25.83	\$59.60
Laborers (Class 03 - See notes)	5/1/2023		\$35.02	\$25.98	\$61.00
Laborers (Class 04 - See notes)	5/1/2022		\$33.77	\$25.83	\$59.60
Laborers (Class 04 - See notes)	5/1/2023		\$35.02	\$25.98	\$61.00
Laborers (Class 05 - See notes)	5/1/2022		\$33.35	\$25.65	\$59.00
Laborers (Class 05 - See notes)	5/1/2023		\$34.60	\$25.50	\$60.10
Landscape Laborer	5/1/2023		\$29.45	\$23.98	\$53.43
Marble Finisher	5/1/2023		\$39.52	\$29.30	\$68.82
Marble Mason	5/1/2023		\$47.20	\$31.95	\$79.15
Mason Tender, Cement	5/1/2023		\$35.02	\$25.98	\$61.00
Millwright	5/1/2023		\$51.60	\$35.81	\$87.41
Millwright	5/1/2024		\$54.67	\$35.81	\$90.48
Millwright	5/1/2025		\$57.39	\$35.81	\$93.20
Millwright	5/1/2026		\$60.20	\$35.81	\$96.01
Operators (Building, Class 01 - See Notes)	5/1/2023		\$52.20	\$32.81	\$85.01
Operators (Building, Class 01A - See Notes)	5/1/2023		\$55.20	\$33.70	\$88.90
Operators (Building, Class 02 - See Notes)	5/1/2023		\$51.95	\$32.74	\$84.69
Operators (Building, Class 02A - See Notes)	5/1/2023		\$54.97	\$33.61	\$88.58
Operators (Building, Class 03 - See Notes)	5/1/2023		\$47.87	\$31.53	\$79.40
Operators (Building, Class 04 - See Notes)	5/1/2023		\$47.57	\$31.44	\$79.01
Operators (Building, Class 05 - See Notes)	5/1/2023		\$45.85	\$30.93	\$76.78
Operators (Building, Class 06 - See Notes)	5/1/2023		\$44.85	\$30.65	\$75.50
Operators (Building, Class 07A- See Notes)	5/1/2023		\$63.33	\$37.68	\$101.01
Operators (Building, Class 07B- See Notes)	5/1/2023		\$63.04	\$37.59	\$100.63
Painters Class 1 (see notes)	5/1/2021		\$41.24	\$30.29	\$71.53
Painters Class 1 (see notes)	2/1/2022		\$41.77	\$31.61	\$73.38
Painters Class 1 (see notes)	5/1/2023		\$42.32	\$32.91	\$75.23
Painters Class 4 (see notes)	5/1/2023		\$44.41	\$32.91	\$77.32
Plasterers	5/1/2023		\$39.32	\$32.64	\$71.96
plumber	5/1/2023		\$64.73	\$37.61	\$102.34
Pointers, Caulkers, Cleaners	5/1/2022		\$47.64	\$30.06	\$77.70
Pointers, Caulkers, Cleaners	5/1/2023		\$48.80	\$30.70	\$79.50
Roofers (Composition)	5/1/2023		\$42.63	\$34.62	\$77.25
Roofers (Shingle)	5/1/2023		\$32.85	\$22.10	\$54.95
Roofers (Slate & Tile)	5/1/2023		\$35.85	\$22.10	\$57.95
Sheet Metal Workers	5/1/2023		\$57.31	\$48.97	\$106.28
Sign Makers and Hangars	7/15/2022		\$30.54	\$24.35	\$54.89
Sign Makers and Hangars	7/15/2023		\$31.76	\$24.63	\$56.39
Sprinklerfitters	1/1/2023		\$62.23	\$31.99	\$94.22
Steamfitters	5/1/2023		\$67.37	\$41.99	\$109.36
Stone Masons	5/1/2023		\$47.20	\$31.95	\$79.15

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

Project: 24-02320 - Building	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Terrazzo Finisher	5/1/2023		\$43.75	\$27.86	\$71.61
Terrazzo Grinder	5/1/2023		\$44.02	\$27.86	\$71.88
Terrazzo Mechanics	5/1/2023		\$50.26	\$29.56	\$79.82
Tile Finisher	5/1/2023		\$39.52	\$29.30	\$68.82
Tile Setter	5/1/2023		\$50.26	\$29.56	\$79.82
Truckdriver class 1(see notes)	5/1/2022		\$35.60	\$20.74	\$56.34
Truckdriver class 1(see notes)	5/1/2023		\$36.29	\$21.55	\$57.84
Truckdriver class 2 (see notes)	5/1/2022		\$35.70	\$20.74	\$56.44
Truckdriver class 2 (see notes)	5/1/2023		\$36.39	\$21.55	\$57.94
Truckdriver class 3 (see notes)	5/1/2022		\$35.95	\$20.74	\$56.69
Truckdriver class 3 (see notes)	5/1/2023		\$36.64	\$21.55	\$58.19
Window Film / Tint Installer	6/1/2019		\$24.52	\$12.08	\$36.60

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

Project: 24-02320 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Carpenter - Chief of Party (Surveying & Layout)	5/1/2023		\$63.24	\$29.06	\$92.30
Carpenter - Chief of Party (Surveying & Layout)	5/1/2024		\$65.19	\$29.06	\$94.25
Carpenter - Chief of Party (Surveying & Layout)	5/1/2025		\$67.15	\$29.06	\$96.21
Carpenter - Chief of Party (Surveying & Layout)	5/1/2026		\$69.10	\$29.06	\$98.16
Carpenter - Instrument Person (Surveying & Layout)	5/1/2023		\$54.99	\$29.06	\$84.05
Carpenter - Instrument Person (Surveying & Layout)	5/1/2024		\$56.69	\$29.06	\$85.75
Carpenter - Instrument Person (Surveying & Layout)	5/1/2025		\$58.39	\$29.06	\$87.45
Carpenter - Instrument Person (Surveying & Layout)	5/1/2026		\$60.09	\$29.06	\$89.15
Carpenter - Rodman (Surveying & Layout)	5/1/2023		\$43.99	\$22.41	\$66.40
Carpenter - Rodman (Surveying & Layout)	5/1/2024		\$45.35	\$22.41	\$67.76
Carpenter - Rodman (Surveying & Layout)	5/1/2025		\$46.71	\$22.41	\$69.12
Carpenter - Rodman (Surveying & Layout)	5/1/2026		\$48.07	\$22.41	\$70.48
Carpenter	5/1/2023		\$54.99	\$29.06	\$84.05
Carpenter	5/1/2024		\$56.69	\$29.06	\$85.75
Carpenter	5/1/2025		\$58.49	\$29.06	\$87.55
Carpenter	5/1/2026		\$60.19	\$29.06	\$89.25
Cement Masons	5/1/2023		\$43.20	\$32.91	\$76.11
Dockbuilder, Pile Drivers	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder, Pile Drivers	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder, Pile Drivers	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder, Pile Drivers	5/1/2026		\$56.98	\$37.99	\$94.97
Dockbuilder/Pile Driver Diver	5/1/2023		\$58.41	\$41.74	\$100.15
Dockbuilder/Pile Driver Diver	5/1/2024		\$61.54	\$41.74	\$103.28
Dockbuilder/Pile Driver Diver	5/1/2025		\$64.35	\$41.74	\$106.09
Dockbuilder/Pile Driver Diver	5/1/2026		\$66.54	\$41.74	\$108.28
Dockbuilder/pile driver tender	5/1/2023		\$50.48	\$37.99	\$88.47
Dockbuilder/pile driver tender	5/1/2024		\$52.98	\$37.99	\$90.97
Dockbuilder/pile driver tender	5/1/2025		\$55.23	\$37.99	\$93.22
Dockbuilder/pile driver tender	5/1/2026		\$56.98	\$37.99	\$94.97
Electric Lineman	5/29/2023		\$60.48	\$32.77	\$93.25
Electric Lineman	6/3/2024		\$62.07	\$33.96	\$96.03
Iron Workers (Bridge, Structural, Ornamental, Precast)	1/1/2023		\$50.70	\$39.51	\$90.21
Iron Workers (Riggers)	7/1/2023		\$42.53	\$34.14	\$76.67
Iron Workers (Rodman/Reinforcing)	7/1/2023		\$45.70	\$34.77	\$80.47
Laborers (Class 01 - See notes)	5/1/2022		\$36.30	\$27.20	\$63.50
Laborers (Class 01 - See notes)	5/1/2023		\$37.55	\$27.45	\$65.00
Laborers (Class 02 - See notes)	5/1/2022		\$36.50	\$27.20	\$63.70
Laborers (Class 02 - See notes)	5/1/2023		\$37.75	\$27.45	\$65.20
Laborers (Class 03 - See notes)	5/1/2022		\$36.50	\$27.20	\$63.70
Laborers (Class 03 - See notes)	5/1/2023		\$37.75	\$27.45	\$65.20
Laborers (Class 04 - See notes)	5/1/2022		\$31.10	\$27.20	\$58.30
Laborers (Class 04 - See notes)	5/1/2023		\$32.35	\$27.45	\$59.80
Laborers (Class 05 - See notes)	5/1/2022		\$37.15	\$27.20	\$64.35
Laborers (Class 05 - See notes)	5/1/2023		\$38.40	\$27.45	\$65.85

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

Project: 24-02320 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Laborers (Class 06 - See notes)	5/1/2022		\$37.20	\$27.20	\$64.40
Laborers (Class 06 - See notes)	5/1/2023		\$38.40	\$27.45	\$65.85
Laborers (Class 07 - See notes)	5/1/2022		\$37.05	\$27.20	\$64.25
Laborers (Class 07 - See notes)	5/1/2023		\$38.30	\$27.45	\$65.75
Laborers (Class 08 - See notes)	5/1/2022		\$36.80	\$27.20	\$64.00
Laborers (Class 08 - See notes)	5/1/2023		\$38.05	\$27.45	\$65.50
Laborers (Class 09 - See notes)	5/1/2022		\$36.65	\$27.20	\$63.85
Laborers (Class 09 - See notes)	5/1/2023		\$37.90	\$27.45	\$65.35
Laborers (Class 10- See notes)	5/1/2022		\$36.80	\$27.20	\$64.00
Laborers (Class 10- See notes)	5/1/2023		\$38.05	\$27.45	\$65.50
Laborers (Class 11 -See Notes)	5/1/2022		\$36.70	\$27.20	\$63.90
Laborers (Class 11 -See Notes)	5/1/2023		\$37.95	\$27.45	\$65.40
Laborers (Class 12 -See Notes)	5/1/2022		\$38.40	\$27.20	\$65.60
Laborers (Class 12 -See Notes)	5/1/2023		\$39.65	\$27.45	\$67.10
Laborers (Class 13 -See Notes)	5/1/2022		\$40.43	\$27.20	\$67.63
Laborers (Class 13 -See Notes)	5/1/2023		\$41.65	\$27.45	\$69.10
Laborers (Class 14 -See Notes)	5/1/2022		\$36.55	\$27.20	\$63.75
Laborers (Class 14 -See Notes)	5/1/2023		\$38.25	\$27.45	\$65.70
Laborers Utility (PGW ONLY) (Flagperson)	5/1/2022		\$30.17	\$19.18	\$49.35
Laborers Utility (PGW ONLY) (Flagperson)	5/1/2023		\$31.42	\$19.43	\$50.85
Laborers Utility (PGW ONLY)	5/1/2022		\$37.20	\$19.18	\$56.38
Laborers Utility (PGW ONLY)	5/1/2023		\$38.45	\$19.43	\$57.88
Landscape Laborer	5/1/2022		\$27.73	\$23.65	\$51.38
Landscape Laborer	5/1/2023		\$29.03	\$23.80	\$52.83
Millwright	5/1/2023		\$51.60	\$35.81	\$87.41
Millwright	5/1/2024		\$54.67	\$35.81	\$90.48
Millwright	5/1/2025		\$57.39	\$35.81	\$93.20
Millwright	5/1/2026		\$60.20	\$35.81	\$96.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2023		\$52.20	\$32.81	\$85.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2024		\$53.36	\$33.65	\$87.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2025		\$54.52	\$34.49	\$89.01
Operators Class 01 - See Notes (Building, Heavy, Highway)	5/1/2026		\$55.67	\$35.34	\$91.01
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2023		\$55.20	\$33.70	\$88.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2024		\$56.37	\$34.53	\$90.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2025		\$57.52	\$35.38	\$92.90
Operators Class 01a - See Notes (Building, Heavy, Highway)	5/1/2026		\$58.68	\$36.22	\$94.90
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2023		\$51.95	\$32.74	\$84.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2024		\$53.11	\$33.58	\$86.69

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

Project: 24-02320 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2025		\$54.27	\$34.42	\$88.69
Operators Class 02 - See Notes (Building, Heavy, Highway)	5/1/2026		\$55.43	\$35.26	\$90.69
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2023		\$54.97	\$33.61	\$88.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2024		\$56.13	\$34.45	\$90.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2025		\$57.29	\$35.29	\$92.58
Operators Class 02a - See Notes (Building, Heavy, Highway)	5/1/2026		\$58.44	\$36.14	\$94.58
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2023		\$47.87	\$31.53	\$79.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2024		\$49.03	\$32.37	\$81.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2025		\$50.18	\$33.22	\$83.40
Operators Class 03 - See Notes (Building, Heavy, Highway)	5/1/2026		\$51.34	\$34.06	\$85.40
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2023		\$47.57	\$31.44	\$79.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2024		\$48.73	\$32.28	\$81.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2025		\$49.88	\$33.13	\$83.01
Operators Class 04 - See Notes (Building, Heavy, Highway)	5/1/2026		\$51.04	\$33.97	\$85.01
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2023		\$45.85	\$30.93	\$76.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2024		\$47.00	\$31.78	\$78.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2025		\$48.16	\$32.62	\$80.78
Operators Class 05 - See Notes (Building, Heavy, Highway)	5/1/2026		\$49.32	\$33.46	\$82.78
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2023		\$44.85	\$30.65	\$75.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2024		\$46.02	\$31.48	\$77.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2025		\$47.17	\$32.33	\$79.50
Operators Class 06 - See Notes (Building, Heavy, Highway)	5/1/2026		\$48.34	\$33.16	\$81.50
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2023		\$63.33	\$37.68	\$101.01
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2024		\$64.80	\$38.61	\$103.41
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2025		\$66.26	\$39.55	\$105.81
Operators Class 07 (A) - See Notes (Building, Heavy, Highway)	5/1/2026		\$67.73	\$40.48	\$108.21
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2023		\$63.04	\$37.59	\$100.63

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

Project: 24-02320 - Heavy/Highway	Effective Date	Expiration Date	Hourly Rate	Fringe Benefits	Total
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2024		\$64.50	\$38.53	\$103.03
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2025		\$65.97	\$39.46	\$105.43
Operators Class 07 (B) - See Notes (Building, Heavy, Highway)	5/1/2026		\$67.44	\$40.39	\$107.83
Painters Class 2 (see notes)	2/1/2023		\$48.82	\$32.09	\$80.91
Painters Class 2 (see notes)	2/1/2024		\$49.57	\$33.34	\$82.91
Painters Class 3 (see notes)	2/1/2023		\$59.78	\$32.13	\$91.91
Painters Class 3 (see notes)	2/1/2024		\$60.53	\$33.38	\$93.91
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2022		\$61.34	\$40.28	\$101.62
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2023		\$64.00	\$41.68	\$105.68
Steamfitters (Heavy and Highway - Gas Distribution)	3/4/2024		\$64.00	\$41.83	\$105.83
Steamfitters	5/1/2018		\$56.37	\$34.39	\$90.76
Truckdriver class 1(see notes)	5/1/2022		\$35.45	\$20.74	\$56.19
Truckdriver class 1(see notes)	5/1/2023		\$36.14	\$21.55	\$57.69
Truckdriver class 2 (see notes)	5/1/2022		\$35.55	\$20.74	\$56.29
Truckdriver class 2 (see notes)	5/1/2023		\$36.24	\$21.55	\$57.79
Truckdriver class 3 (see notes)	5/1/2022		\$35.80	\$20.74	\$56.54
Truckdriver class 3 (see notes)	5/1/2023		\$36.49	\$21.55	\$58.04

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 FOREIGN COUNTRY) 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: _____



WORKER PROTECTION AND INVESTMENT CERTIFICATION FORM

A. Pursuant to Executive Order 2021-06, *Worker Protection and Investment* (October 21, 2021), the Commonwealth is responsible for ensuring that every worker in Pennsylvania has a safe and healthy work environment and the protections afforded them through labor laws. To that end, contractors and grantees of the Commonwealth must certify that they are in compliance with Pennsylvania’s Unemployment Compensation Law, Workers’ Compensation Law, and all applicable Pennsylvania state labor and workforce safety laws including, but not limited to:

1. Construction Workplace Misclassification Act
2. Employment of Minors Child Labor Act
3. Minimum Wage Act
4. Prevailing Wage Act
5. Equal Pay Law
6. Employer to Pay Employment Medical Examination Fee Act
7. Seasonal Farm Labor Act
8. Wage Payment and Collection Law
9. Industrial Homework Law
10. Construction Industry Employee Verification Act
11. Act 102: Prohibition on Excessive Overtime in Healthcare
12. Apprenticeship and Training Act
13. Inspection of Employment Records Law

B. Pennsylvania law establishes penalties for providing false certifications, including contract termination; and three-year ineligibility to bid on contracts under 62 Pa. C.S. § 531 (Debarment or suspension).

CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the contractor/grantee identified below, and certify that the contractor/grantee identified below is compliant with applicable Pennsylvania state labor and workplace safety laws, including, but not limited to, those listed in Paragraph A, above. I understand that I must report any change in the contractor/grantee’s compliance status to the Purchasing Agency immediately. I further confirm and understand that this Certification is subject to the provisions and penalties of 18 Pa. C.S. § 4904 (Unsworn falsification to authorities).

<i>Signature</i>	<i>Date</i>
<i>Name (Printed)</i>	
<i>Title of Certifying Official (Printed)</i>	
<i>Contractor/Grantee Name (Printed)</i>	

TECHNICAL SPECIFICATION SECTION 1 - SUMMARY OF WORK

1.1 – SCOPE OF PROJECT

The intent of this project is to construct a new shooting station shelters at the pistol and shotgun range on State Game Lands #043 in Warwick Township, Chester County. The project consists of construction of concrete slabs, covered shooting station shelters, target installation, grading, and related work.

1.2 – WORK AREA

The range is on State Game Lands #043 which is approximately 3.0 miles northwest of Warwick. The range can be accessed from Laurel Lane which connects to PA Route 345 (Pine Swamp Road). 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. Working during different hours must have prior written approval by the PGC. Requests for different working hours must be submitted in writing three (3) days in advance.

1.4 – ACCESS TO WORK AREA

Access to the range is from Laurel Lane, which connects to S.R. 345. There is a large stone surface parking area at the range. The Contractor may use a portion of the parking lot for vehicle parking, equipment, and material storage. The Contractor must keep the access road leading to the range parking area open for use by the PGC. The Contractor is required to repair any ruts or other damage to the access road and parking area caused by construction equipment.

1.5 – CONTROL OF WORK AREA

The range will be closed for construction. The Contractor shall install barriers and signs to keep the public from accessing the range. The PGC will notify the public of the range closure by issuing a press release and/or using social media. Coordinate with PGC staff for access and control of work areas. Provide barricades, signs and other devices as needed to prevent unauthorized access to work areas until construction activities are completed and parking areas are opened for public use.

All PGC gates on State Game Land roads used to access the project site shall be closed and locked at the end of each workday unless other arrangements are coordinated with PGC staff.

Do not block public roads at any time during construction. If necessary, provide temporary Maintenance and Control of Traffic in accordance with PennDOT Pub. 213 Temporary Traffic Control Guidelines and related PennDOT references.

Provide and maintain construction warning signs, truck crossing signs, etc. during active work and construction operations.

Damage to trails, roads, parking areas, gates, culverts, streams, rights-of-way, infrastructure, and property caused by the Contractor's equipment shall be repaired or restored to original condition at no additional cost.

All trash and construction debris / waste shall be removed from the project site and properly disposed of. Burning is not permitted on State Game Lands.

The Contractor is responsible for the control and collection of fluids leaking from any equipment used on the site. The Contractor shall provide spill containment and cleanup kits appropriate for the equipment being used. At a minimum, the kits shall contain plugs and clamps to control hydraulic line breaks, a container to collect leaking fluids, fluid absorbent pads, heavy duty trash bags, and a shovel. The Contractor shall collect, and control fluids leaking from any equipment and dispose of it properly. The Contractor shall contain and clean up all fluid spills and properly dispose of contaminated fluids, materials, and soils at an approved waste disposal / recycling site or facility. Operating equipment noticeably leaking fluids on State Game Lands is prohibited.

The Contractor, employees, and sub-contractors may not hunt to, from, or at the job site when the work location is beyond a gated road that is closed to public traffic. The Contractor may travel to and from the work location on non-workdays to check on the condition of equipment.

1.6 – PERMITS, LAWS, AND REGULATIONS

The Contractor shall procure and pay for all permits, licenses, inspections, conveniences, or other approvals necessary for the execution of the contract. The PGC has obtained building permits from the Pennsylvania Department of Labor & Industry, Permit Numbers 202400201 and 202400202.

1.7 – PROTECTION OF UTILITIES - PA ONE CALL (ACT 287 of 1974 as amended)

The Contractor shall comply with Act 287 (as amended) and the “*Underground Utility Line Protection Law*” when Work involves excavation and earthmoving activities as defined by the Act. The Contractor shall contact the Pennsylvania One Call System, Inc. by phone at 1-800- 242-1776 or their website (www.palcall.org) to notify affected utilities and to coordinate utility locations prior to earthwork and excavation operations at the site.

1.8 – ROAD PERMITS AND BONDING

The Contractor shall coordinate, acquire, pay for, and maintain for the duration of the project all permits or bonds required by local municipalities and/or PennDOT to utilize public roads and infrastructure for heavy hauling and related construction activities. Responsibilities shall include any pre or post construction inspections and related reports if required. All costs related to permitting and bonding public roadways and infrastructure shall be included with and incidental to the Bid submitted by the Contractor and will not be paid for separately.

1.9 – EQUIPMENT

The PGC reserves the right to inspect/evaluate Contractor provided equipment used to complete the project. If in the opinion of the PGC staff the equipment is not adequate to meet the requirements of the contract, the Contractor shall provide other equipment acceptable to the PGC staff for the project. If the Contractor does not provide adequate equipment to complete the project the contract will be terminated. The decision of the PGC staff Officer in Charge as it relates to proper equipment and their ability to complete the work will be final.

Adequate equipment required to complete the project shall remain on site for the duration of the project. If equipment is removed from the site and is later needed to finish the required work and restoration or to perform repairs / corrections, the Contractor shall remobilize and provide necessary equipment to complete the work to the satisfaction of the PGC staff. No separate or additional payment will be made to remobilize equipment to the project site.

1.10 – FINAL INSPECTION

Final inspection of the project will be conducted by PGC staff. The Contractor may be present at the final inspection. Upon successful completion of the required work, restoration of disturbed or damaged areas and/or infrastructure, submission of all required project documentation, certified payrolls, aggregate load slips, etc., final payment will be released to the Contractor.

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.

TECHNICAL SPECIFICATION SECTION 2 – CLEARING AND GRUBBING

2.1 -SCOPE

This work includes incidental removal and disposal of trees and brush in the project area necessary for the installation of the shelters, target holders, and backstops.

Clearing is cutting of trees and brush, so that stumps are no more than three inches above the ground. The areas which are to be cut or filled for the backstop improvements must be cleared and grubbed. Grubbing is removal of stumps and roots at least twelve inches below finished grade.

2.2 - PROCEDURE

Review with PGC staff areas where clearing and grubbing will be necessary before commencing clearing and grubbing operations. 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 designated areas. Cut the trees and brush so that the stumps are no more than three (3) inches above the ground. Stumps must also be removed from the areas designated to be grubbed.

Cleared and grubbed material must be removed from the site and disposed of properly. Merchantable logs are property of the Contractor and can be removed from the site. Burning is not permitted at the site.

2.3 - MEASUREMENT AND PAYMENT

Lump Sum – This work is to be included in the excavation bid line activity.

TECHNICAL SPECIFICATION SECTION 3 - EXCAVATION

3.1- SCOPE

This work is removal, hauling, and disposal of all materials encountered for construction of the project as indicated on the Drawings. Earthwork and grading will be required for construction of the new shooting station shelters, walkway paths, target uprights, and backstops for the target uprights.

3.2 - 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 1-800-242-1776 prior to excavation operations at the site.

The Contractor is responsible for laying out the locations of the new shooting station shelters from existing features at the facility. 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 concrete, gravel, earth, or other materials designated by, and at no additional cost to the Game Commission.

New targets shall be installed at the required target distances as indicated on the drawings, measured from the front of the concrete slab at the shooting stations.

B.) Excavation

Remove all materials to the limits shown on the Drawings or as necessary to construct the new shooting station shelters, shape the target backstops for installation of the target uprights, and placement of stone for the walking paths and handicapped parking area.

C.) Disposal

Unsuitable materials and excess excavated materials shall be disposed of off-site.

3.3 - MEASUREMENT AND PAYMENT

Lump Sum.

TECHNICAL SPECIFICATION SECTION 4 - AGGREGATE

4.1 - SCOPE

This work includes placing coarse aggregate on the faces of the backstops and target line areas, construction of the target line paths on the ranges, placing coarse aggregate for the subbase of the concrete shooting station slabs, placement of aggregate in parking area, and related work as shown on the Drawings.

4.2 - MATERIALS

Coarse aggregate for the subbase of the concrete shooting station slabs shall be #2A coarse aggregate as specified in Section 703.2 of PennDOT Pub. 408. #2A coarse aggregate shall also be used to backfill the edges of the new concrete slabs.

2A coarse aggregate shall be placed on existing parking area directly in front of new shooting stations and be graded into the existing roadway for a reasonable distance.

The Coarse aggregate for the target line path and target station areas shall be AASHTO #10 as specified in Section 703.2 of PennDOT Pub. 408.

Obtain the coarse aggregate from a source listed in PennDOT Bulletin 14.

4.3 - PROCEDURE

Place coarse aggregate in the dry.

Place the AASHTO #10 coarse aggregate in one layer and compact with a roller to the required minimum thickness of 4-inches for the target line path. Compaction of the coarse aggregate shall be considered satisfactory based on non-movement of the materials under compaction equipment.

Grade the areas for the shooting station slabs for placement of #2A coarse aggregate. Place a minimum of 6-inch layer of coarse aggregate under the concrete slab areas. Rake and compact as necessary to provide an even surface for formwork and concrete placement. Compaction of the coarse aggregate shall be considered satisfactory based on non-movement of the materials under compaction equipment.

Place the coarse aggregate along the edges of the new concrete slabs as shown in the drawings. The coarse aggregate must have a minimum finished depth of 4-inches. Compaction of this coarse aggregate is not necessary.

4.4 - MEASUREMENT AND PAYMENT

Tons for each type of coarse aggregate (#2A coarse aggregate and AASHTO #10), measured by the average end area method or by three-dimensional volume method, as applicable. Stone tickets are required.

TECHNICAL SPECIFICATION SECTION 5 – SHOOTING STATIONS

5.1 - SCOPE

This work is construction of concrete slabs and fabrication of shooting station shelters at the shooting range.

5.2 - MATERIALS

A – Concrete - Concrete shall be composed of Portland cement, water, fine and coarse aggregates, and approved admixtures, all well mixed and brought to the proper consistency.

1. Concrete shall be PennDOT Class A and shall develop a minimum compressive strength of 3,300 psi in twenty-eight (28) days.
2. Concrete shall be obtained from a batch plant currently approved by the Pennsylvania Department of Transportation (PennDOT).
3. Ready-mixed concrete shall be mixed and delivered in accordance with ASTM Designation C94.

Polypropylene fibers shall be included in the concrete mix. Cement shall be Type IA or IIA conforming to ASTM C 150. All materials shall be obtained from sources listed in PennDOT Bulletin 14 or PennDOT Bulletin 15.

B – Curing Compound - The curing compound shall be clear or translucent containing a red fugitive dye conforming to the requirements of AASHTO M148, Type 1-D, and must not affect water in any respect to injure fish life or impair or be detrimental to water for human consumption. The curing compound shall be stored as recommended by the manufacturer.

C – Sealing Compound – W.R. Meadows PENTREAT 244-20 W/B or approved equal conforming to the following:

1. The sealing compound shall be water-based, 20% active content silane penetrating sealer. As well as hydrophobic, impregnating sealer.
2. Prepare surface by ensuring area is clean, dry, and free from all oil, grease, dust, efflorescence, and curing compounds.
3. Wait 28 days when applying to new concrete.
4. Apply with a low-pressure airless sprayer and a 0.1 CPM spray rate.

D – Pressure Treated Wood – Wood for the shooting station shelters shall be Structural Grade No. 2, pressure treated ACQ (waterborne preservative) with a 0.4 pcf retention in conformance with the American Wood Preservers Association (AWPA) Standard UC3B “Above Ground Exposed” for above ground exposed members and framing and UC4B

“Ground Contact – Heavy Duty” for buried posts, columns, or members in contact with the ground.

E – Column Bases – The bases for the posts shall be pre-engineered materials capable of supporting the structural load and providing uplift resistance.

F – Roof Trusses – The trusses shall be fabricated from SPIB Structural Grade No. 2 Southern Pine dimension lumber (S4S) with a moisture content of S-dry or MC19 and have a 4V:12H pitch and 1-foot overhangs. The span is 11-feet and the spacing of the trusses is on 4-foot centers. The roof trusses must have a roof load rating of 42.5 psf ground snow load (snow load factor of 0.7) and a wind load rating of 25 psf. Submit design calculations and drawings for the roof trusses for review and approval. The design drawings and calculations for the roof trusses must be sealed and certified by a licensed professional engineer (valid Pennsylvania license). The truss design shall conform to the applicable provisions of the “National Design Specification for Stress-Grade Lumber and Its Fastenings” (National Forest Products Association) and “Design Specifications for Light Metal Plate Connected Wood Trusses” (TPI).

Purlins shall be SPIB Structural Grade No. 2 Southern Pine dimension lumber (S4S) with a moisture content of S-dry or MC19.

G – Metal Roof & Soffit Panels – The roof panels (and gable end panels) shall be fabricated from galvanized steel sheet with a minimum coating of 0.90 oz/SF. The roof panels shall be minimum 26-gauge steel sheet stock capable of supporting the design roof loading. The panels shall be full length from ridge to eave. The ridge and eaves shall be fitted with continuous gaskets. The finish color of the panels is white. Trim pieces shall be metal sheet stock with the same finish characteristics as the panels and fabricated into ridge cap, corners, and drip edges. The soffit/ceiling panels shall be minimum 28-gauge steel stock with the same configuration and finish as the roofing panels. Color of all panels to be white.

Provide two (2) rows of snow guards designed for use with exposed fastener panels on 2 x 4 purlins in the flat position. Snow guards shall be made with 16 Ga. Type 304 Stainless Steel with EPDM rubber sealer with a power coated “White” finish. Snow guards shall be compatible with the metal roof panels as recommended by the roof panel manufacturer.

H – Metal Roof Underlayment Insulation – The insulation/vapor barrier installed under the metal roof panels and over the roof purlins shall be White Prodex Total 5m Plus 48-inch insulation or an approved equal conforming to the following characteristics:

1. Blanket structure – Closed cell polyethylene foam with reflective reinforced foil facing on exterior side and UV resistant plastic white finish film on inside.
2. Nominal thickness – .20” (5mm)
3. Perm Rating – Less than 0.09 according to ASTM E9
4. Fungi Resistance – No Growth (ASTM C-1338)

5. Flame Spread Index – 0 (ASTM E84-10)
6. Smoke Developed Index – 10 (ASTM E84-10)
7. Insulating Value – R-15.3 (roof)

I – Soffits and Fascia – Soffits shall be preformed and perforated (minimum 29-gauge steel sheet stock) formed to a V-groove section at roof eaves and roof rakes shall have finish color is white. Fascia shall be preformed, pre-painted aluminum alloy (minimum 0.019-inch-thick sheet stock) with plain surface and the finish color is white.

J - Gutters and Downspouts

1. Gutters – Aluminum with baked on White finish. Gutter shall be seamless for the length of the roof. Gutter shall be standard 5-inch width, K-type profile, .032 gauge minimum.

2. Downspouts – Aluminum with baked on White finish and 2-inch by 3-inch cross section.

3. Fittings, Hangers, and Brackets – Aluminum fittings and brackets as recommended by gutter and downspout manufacturer with hidden hangers at 2' on center maximum.

4. Splashblocks – Precast concrete, approx. 36" long and 12" wide (min).

5. Fasteners – All fasteners shall be corrosion resistant galvanized steel or chromium steel and recommended by the manufacturer to be used with ACQ pressure treated lumber. Refer to the listing below for an application guide for fasteners.

- 1) For lumber framing – Steel carriage bolts (nuts and washers) or #10 wood screws.
- 2) For metal roofing – Screw fasteners, cadmium plated self-tapping, hex head with washer and soft neoprene sealing ring finished to match the metal roof color.
- 3) For soffit and fascia – Prefinished white aluminum nails.
- 4) For insulation board – Nails with large plastic ring washers.
- 5) Roof Truss Ties – Simpson Strong Tie H1Z Hurricane Tie (Z-Max) with galvanized 8d nails.
- 6) Treated Wood Cleats (Column Uplift Resistance) – Rugged Structural Screw (RSS) with Climatek coating suitable for use with pressure treated wood with corrosive ground contact as manufactured by GRK Fasteners.

5.3 – PROCEDURE

A – Preparation of Concrete Foundation Areas – Grade the area to drain and fill any voids. Place and compact a 6-inch layer of #2A coarse aggregate to provide a stable,

even surface for placement of concrete. Moisten the surface of the aggregate before placing concrete.

B – Formwork – Forms shall conform to the shapes, lines, grades, and dimensions of the concrete as called for on the Drawings. They shall be sufficiently tight to prevent leakage of mortar and shall be properly braced or tied together to maintain the desired position and shape during and after placing concrete. Forms shall be removed in such a manner as to assure the complete safety of the structure.

C – Depositing – Concrete shall be deposited in the presence of a representative of the Game Commission.

In all cases, concrete shall be deposited as nearly as practicable in its final position and not allowed to flow in a manner to permit or cause segregation and loss of slump. Once concreting is started, the operation shall be carried on continuously until the placing of the panel or section is completed.

All conveying equipment shall be of such size and design as to insure a practically continuous flow of concrete at the forms. Free falls of more than four (4) feet are not permitted.

Any concrete that has been contaminated by foreign matter or which has become so stiff that proper placing can not be assured, shall be wasted.

If unfavorable weather conditions exist, the Game Commission may order the work stopped, either before concreting has started or after it is in progress, until a suitable formwork or covering is set up on the site to protect fresh concrete from rain, hail, snow, or other unfavorable conditions.

D - Finishing Concrete – All unformed surfaces (slab surfaces of the shooting stations) shall be finished in accordance with the following requirements by a skilled concrete finisher:

Immediately after placement of concrete is completed, the surface shall be leveled and screeded sufficiently to produce an even, uniform texture.

Floating shall be done by hand or power-driven equipment. Floating shall not start until some stiffening has taken place in the surface concrete and the moisture film or "shine" has disappeared. The floating should work the concrete no more than necessary to produce a surface that is uniform in texture and free of screed marks. Any necessary cutting or filling of surface to prevent irregularities should be done during the floating operations. Joints and edges shall be finished with edging tools at this time. Provide tooled construction joints in the shooting station slab according to the dimensions shown on the Drawings.

After floating is completed, apply a light broom finish to the top surface of unformed concrete. Light surface pitting and light trowel marks are not objectionable.

E – Curing Concrete – After finishing operations are completed, the concrete shall be membrane cured. Curing compound shall be applied in two (2) coats, each coat covering 300 square feet of concrete surface per gallon. A pressure tank type spraying equipment shall be used, which shall provide continuous agitation of the compound during coating operations. Do not use ordinary orchard-type hand sprays. To insure thorough and complete coverage of the concrete surfaces, the first coat shall be applied by moving the spray gun back and forth in one direction, and the second coat immediately thereafter by moving the spray gun at right angles to the direction of the first coat.

The first coat shall be applied immediately after finishing operations are completed. The second coat shall be applied immediately after the first coat has set.

F – Protection of Concrete – All concrete shall be protected against injury until final inspection and acceptance by the Game Commission.

During the construction period, the concrete shall be protected from damaging mechanical disturbances, such as load stresses, heavy shock, and excessive vibration. All finished concrete surfaces shall be protected from damage by construction equipment, materials, or methods, by application of curing procedures, and by rain or running water.

Until final inspection and acceptance by the Game Commission, the Contractor shall repair, or remove and replace any damaged concrete at no additional cost to the Game Commission.

G – Shelter Fabrication – Construct the shooting station shelters according to the dimensions and layout shown on the Drawings. Excavate holes for the wood posts and place column bases on the bottom of the posts as shown on the Drawings. Install truss seats on the posts. Provide extra temporary bracing as required to keep the structures plumb. Install the roof trusses on the truss seats and use hurricane ties on each truss seat (4 ties per truss). Install purlins and fascia boards on the roof trusses. Provide an install extra dimension lumber to form the overhangs on the gable ends of the structures. Install the insulation board to the underside of the purlins between the trusses. Install metal roof panels. Install the vinyl fascia and soffits on the roof overhangs. Install trim and metal roof panel sections trimmed to size to cover the gable ends and provide a finished appearance.

Fasten snow guards to roof using 2 inch or longer #12 screws with washers. After fastening the guard be sure that it is tightened and sealed properly. Screws shall face towards the eave of the roof. The blade shall face toward the ridge. Install the guards in a staggered pattern (1 guard every 9” in a staggered row) - 1 every 18” on the first purlin and going up to the next purlin installing the next row every 18” between the first row.

5.4 - MEASUREMENT AND PAYMENT

For concrete, measurement will be a lump sum, measured by the average end area method or by the three-dimensional volume method, as applicable.

Payment will be made at the unit price per cubic yard bid for "Concrete Slab", which price shall include the furnishing of cement, fine and coarse aggregates; admixtures, forms, all labor, and equipment for mixing, placing, curing, finishing, repairing, and forming; and all labor, materials, and appurtenances necessary to do and complete the work.

Measurement and payment for shooting station shelters will be made for each range area successfully constructed.

TECHNICAL SPECIFICATION SECTION 6 – GUARD POSTS

6.1 -SCOPE

This work is furnishing and installing wooden guard posts/bollards on parking lot edge of shooting shelters.

6.2– MATERIALS

A - Guard Posts - The guard posts shall have nominal dimensions of 6”x 6” with ½” 45° angle chamfers along the top edge of posts on all (4) sides and conform to the following characteristics.

- 1) Southern Yellow Pine – Dimension Lumber
- 2) Structural Grade No. 2
- 3) Pressure Treated, ACQ (waterborne preservative), 0.40 pcf retention in conformance with American Wood Preservers Association Standards UC4A.

6.3 - PROCEDURE

Drill or auger the soil at the locations to the depth shown on the Drawings. Set the posts plumb in the holes and backfill around the posts with the excavated material. Firmly tamp the backfill in 6-inch lifts around the posts. Place mulch around the guard posts after backfilling operations are complete.

6.4 - MEASUREMENT AND PAYMENT

Each.

TECHNICAL SPECIFICATION SECTION 7 - SEEDING

7.1 - SCOPE

This work is securing a satisfactory stand of grass at disturbed areas, or where directed by the PGC. This 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.

7.2 - APPLICABLE ACTS AND PUBLICATIONS

Bulletin 15 - Approved Construction Materials, Pennsylvania Department of Transportation.

Publication 408 - Specifications, Pennsylvania Department of Transportation.

7.3 - MATERIALS

A.) Grass Seed - Use Formula B grass seed on flat areas. Use Formula W grass seed mix on the backstop slopes and side berm slopes. Use Formula E for temporary seeding to control erosion during construction. Seed mixes shall conform to Section 804.2(b) of Pub. 408. No seed shall contain Canada Thistle, Field Bindweed, Johnson Grass, Perennial Sowthistle, Quackgrass, Horse Nettle, Bedstraw, Corncockle, Brassica Kaber, Brassica Nigra, Wild Onion, or Wild Garlic.

With the approval of and at no additional cost to the PGC, you may add annual ryegrass seed to the mixture to secure a cover crop.

Deliver premixed seed in bags or other suitable containers, each fully labeled with the name, trademark, and warranty of the producer and with the mixture type, weed seed percentage, purity percentage, germination percentage, and mix formula or composition.

Do not use seed which has become wet, moldy, or otherwise damaged in transit or storage, has a mix date older than 9 months prior to seeding, or has a test date older than 6 months prior to seeding.

B.) Fertilizer - Use dry formulation of 10-20-20-analysis. Fertilizer shall be delivered in bags or other suitable containers, each fully labeled and bearing the name, trademark, and warranty of the producer.

C.) Lime - Conform to Section 804.2(a).1 of Pub.408.

D.) Inoculant – Conform to Section 804.2(c) of Pub. 408.

E.) Mulches - Mulches shall be free from mature seedbearing stalks or roots of prohibited or noxious weeds as defined by law. Do not use mulches which are cut into lengths of less than 6 inches.

Mulches shall be either one or a combination of the following, shall contain no stems of tobacco, soybeans, or other coarse or woody materials.

1. **Hay** - Timothy hay, mixed clover, and timothy hay, or other approved native or forage grasses, well-cured to less than 20 percent moisture content by weight.
2. **Straw** - Either wheat or oat straw, and reasonably free of viable seeds, well-cured to less than 20 percent moisture content by weight.
3. **Wood Fiber** - Use wood fiber meeting the requirements of Section 805.2(a).1.c of Pub. 408.
4. **Pellet Mulch** - Use pellet mulch meeting the requirements of Section 805.2(a).1. d of Pub. 408.

F.) Mulch Binders - Use one of the following mulch binders in accordance with Section 805.2(b) of Pub. 408. Use Recycled Cellulose Fiber, Wood Fiber, Non-asphaltic Emulsion, Polyvinyl Acetate, or a Mixture of Recycled Cellulose Wood Fiber and Wood Fiber. Obtain binders from a producer listed in Bulletin 15.

G.) Water - Water shall be fresh and free from injurious amounts of oil, acid, alkali, salts, or other materials harmful to the growth of grass.

H.) Topsoil - Acceptable friable loam that is reasonably free of subsoil, clay lumps, brush, roots, weeds, other objectionable vegetation, stones, other foreign material larger than 2 inches in any dimension, litter, and/or other material unsuitable or harmful to plant growth in accordance with Section 801.2 (a) and 802.2 of Pub. 408.

7.4 - PROCEDURE

Follow the procedures specified below and as listed in Section 804.3 of Pub. 408. The amounts of seed, lime, fertilizer, and mulch specified are the minimum acceptable. Employ modifications if they are deemed necessary, at no additional cost to the PGC, and accept full responsibility for obtaining a satisfactory stand of grass.

A.) Topsoil Furnished and Placed – Reference Section 802 of Pub. 408. Provide topsoil as shown on the drawings and as required to restore disturbed areas. Grade the areas to be covered by topsoil. Using acceptable methods, loosen soil to a depth of 2 inches before placing the topsoil. Remove stones and other foreign material 2 inches or larger in any dimension. Remove and satisfactorily dispose of unsuitable and surplus material. Place topsoil on the prepared areas and, unless otherwise indicated, spread and compact to a 4-inch uniform depth $\pm 1/2$ inches. Compact with a roller having a weight not over 120 pounds per foot width of roller or by other acceptable methods, as directed.

Remove over-depth topsoil, unless otherwise agreed upon in writing. Do not place topsoil in a wet or frozen condition.

B.) Sowing - Sow the seed mixture on a still day at a rate specified in Section 804.2 of Pub. 408. Sow by hand or by approved sowing equipment in 2 applications, one-half the seed while the seeder is traveling in one direction and the other half while the seeder is traveling at right angle to the first direction. After sowing, rake, cultipack, or brush drag the surface very lightly, just deep enough to cover the seeds. Rake only in a direction parallel to the contour lines.

C.) Mulching - After sowing is completed, spread mulch uniformly over the entire seeded area at a rate of 3 tons (dry weight) per acre. The mulch shall be moist at the time of placement.

Apply wood fiber mulch hydraulically in accordance with the manufacturer's tank-mixing instructions. Wood fiber mulch may be incorporated into the slurry after the seed and soil supplements have been thoroughly mixed. Apply wood fiber mulch at a rate of 800 Lbs. per acre unless otherwise indicated by the manufacturer.

On slopes 6:1 or flatter, apply pellet mulch by hand or using a mechanical spreader immediately after seeding, at a rate of 2,615 Lbs. per acre. Thoroughly wet pellet mulch with water without dislodging mulch.

To prevent loss or bunching by wind and to form a soil-binding mulch, anchor the moist mulch to the soil with a mulch binder. Use mulch binders at the following rates:

Recycled Cellulose Fiber - 775 Lbs./Acre

Wood Fiber - 775 Lbs./Acre

Mixture of Recycled Cellulose Fiber and Wood Fiber - 775 Lbs./Acre

Non-asphaltic Emulsion - Manufacturer's Recommended Rate

Polyvinyl Acetate - Manufacturer's Recommended Rate

On slopes where machinery cannot be used, retain the mulch in place by some suitable means which will not be detrimental to subsequent operations.

7.5 - 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.

7.6 - MEASUREMENT AND PAYMENT

None – No separate payment will be made for this item. This work shall be considered incidental to the other items of work in the project.

**TECHNICAL SPECIFICATION SECTION 8 - EROSION AND
SEDIMENTATION CONTROL**

8.1 -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.

8.2 – PROCEDURE

Install the silt sock around the spoil area as shown on the Drawings before any earth disturbance activities occur at the site. Maintain the silt sock for the duration of construction.

Permanently stabilize disturbed earth areas with seed and mulch according to Section 7 of these Technical Specifications. Temporary seeding and mulching can be performed to stabilize areas where construction has not been completed.

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 because of act or neglect of the Contractor.

8.3 - MEASUREMENT AND PAYMENT

Linear Feet for the silt sock.

TECHNICAL SPECIFICATION SECTION 9 – GUARD POST with HANDICAPPED ACCESSIBLE SIGN

9.1 - SCOPE

This work is furnishing and installing wooden guard posts with handicapped access sign along the edge of the parking area.

9.2 – MATERIALS

A - Guard Post(s) - Guard post(s) shall have nominal dimensions of 6”x6” and conform to the following characteristics.

- 1) Southern Yellow Pine – Dimension Lumber
- 2) Structural Grade No. 2
- 3) Pressure Treated, ACQ (waterborne preservative), 0.40 pcf retention in conformance with American Wood Preservers Association Standards UC4B “Ground Contact – Heavy Duty” for buried posts or members in contact with the ground.

B – Signs - Signs shall conform to the dimensions and configurations for D9-6 signs as listed in the Manual on Uniform Traffic Control Devices (MUTCD), 2003 Edition from the Federal Highway Administration. Copies of these signs are attached to this specification. The signs shall be on 0.080 aluminum sheet.

9.3 - PROCEDURE

Drill or auger the soil at the locations to the depth shown on the Drawings along the edge of the parking area. Set the posts plumb in the holes and backfill around the posts with the excavated material. Firmly tamp the backfill in 6-inch lifts around the posts. Leave a crowned surface around the posts.

Attach the handicapped accessible sign (D9-6) to the top of the post with corrosion resistant lag screws as recommended by the sign manufacturer.

9.4 - MEASUREMENT AND PAYMENT

Each.

Excavation and backfill around the guard post is incidental to this item. No separate measurement or payment will be made for excavation and backfill around the guard post.

TECHNICAL SPECIFICATION SECTION NO. 10 – SURFACE TREATMENT

10.1 - SCOPE

This work is surfacing the new road with a three-coat treatment as noted on the Drawings.

10.2– MATERIALS

A. General – Provide material certifications for all materials for review and approval prior to construction.

B. Bituminous Material – The bituminous material for the prime coat shall be AE-P or E-1 conforming to the requirements of Section 461.2 of PennDOT Pub. 408. The bituminous material for surface and seal coats shall be CRS-2 conforming to the requirements of Section 470.2 of PennDOT Pub. 408.

C. Aggregates – The aggregates for the resurfacing shall be Type A, #67 and #8 coarse aggregate conforming to the requirements of Section 703.2 of PennDOT Pub. 408.

10.3 - PROCEDURE

A. General – Post signs and flaggers during construction operations.

B. Construction – The road resurfacing is to be accomplished in three coats or layers. Apply a bituminous prime coat to the existing road surface in accordance with Section 461.3 of PennDOT Pub. 408.

The second layer of treatment is a bituminous surface treatment with both AASHTO #67 and #8 aggregates. This is a two-layer treatment in accordance with Section 480 of PennDOT Pub. 408.

The third layer of treatment is a bituminous seal coat using AASHTO #8 aggregate. This layer shall conform to the requirements of Section 470 of PennDOT Pub. 408.

10.4 - MEASUREMENT AND PAYMENT

Square Yards.