

## ADDENDUM #02

PROJECT: **UPPER POTTS GROVE TOWNSHIP NEW MUNICIPAL COMPLEX**  
PROJECT #: 22-0058  
ISSUE DATE: April 23, 2024  
  
BIDS DUE TO: UPLOAD TO PENBID  
  
**BIDS DUE: Thursday, May 22, 2025**

---

The following clarifications, amendments, additions, deletions, revisions and modifications in this Addendum forms a part of the Contract Documents and modifies the original Bidding Documents as noted below. This addendum must be acknowledged in the form of proposal in the space provided for this purpose. Failure to acknowledge this addendum may subject the Bidder to disqualifications.

### **GENERAL**

1. Project Manual Table of Contents has been updated to coordinate with **Addendum 02** changes.

### **ADDED SPECIFICATIONS**

1. The following specifications issued with this addendum shall be added from the Contract Documents
  - a. **SECTION 001155** – LETTER OF INSURER
  - b. **SECTION 004011** – NON-DISCRIMINATION CLAUSE

### **REVISED SPECIFICATIONS**

1. The following revised specifications issued with this addendum shall be made a part of the Contract Documents
  - a. **SECTION 00.0110** – TABLE OF CONTENTS
  - b. **SECTION 002113** – INSTRUCTIONS TO BIDDERS
  - c. **SECTION 133418** – ENGINEERED POST FRAME BUILDING SYSTEMS

### **REMOVED SPECIFICATIONS**

1. The following removed specifications issued with this addendum shall be removed from the Contract Documents
  - a. **NONE**

### **ADDED DRAWINGS**

1. The following added drawings issued with this addendum shall be made a part of the Contract Documents  
ADMIN & POLICE BUILDING
  - a. **NONE**

PUBLIC WORKS

- a. **NONE**

CIVIL

- a. **HIGHWAY OCCUPANCY PLAN SET (4 PAGES)**
- b. Sanitary HOP PLAN SET (4 PAGES)

**REVISED DRAWINGS**

1. The following revised drawings issued with this addendum shall be made a part of the Contract Documents

ADMIN & POLICE BUILDING

- a. **NONE**

PUBLIC WORKS

- a. **NONE**

CIVIL DRAWINGS

- a. **NONE**

**PennBid Questions and Answers:**

Q14: Demo existing Fuel Oil Tank - Which Contract Has This? How Many Gallon Tank? How much Fluid is in tank?

**A14: Sitework Contract**

Q15: The specifications indicate the Site Contractor is responsible for "general hoisting facilities" for materials and personnel up to 2 tons. Please clarify what this entails, and in particular if it relates to the needs of other trades, i.e. rooftop units, etc.

**A15: All Primes responsible for their own hoisting**

Q16: Which Contract is responsible for the Project Sign?

**A16: General Construction Contract**

Q17: Is there a general sequence of construction, or targeted milestone dates, for each trade?

**A17: Issued in Addendum 1**

Q18: When will HOP drawings be made available?

**A18: See attached HOP plans**

Q19:

1. SF1 and SF2 are called out to be Bullet Resistant glazing. Please confirm these are intended to be Security Storefronts according to section 084213 instead of using Kawneer framing. **See dwg A6.00 Door Schedule & Details; three doors (016A, 113, 113A) are noted as 'SEC' with corresponding notes (GN#03 & Door Sched Note #6).**

2. Please confirm 112A is a security entrance (has frame #5) 3. Please confirm 115 is a security entrance ( has frame #4) **Doors 112A and 115 are not 'security' doors.**

**A19: Answered above**

Q20: How much are liquidated damages for the GC on the project?

**A20: As shown in attached document 002113 Instructions to Bidders - \$1500.00 per day**

Q21: Site Contractors Scope -

- a. Excavation for any trades including trenching? **Each Prime has their own trenching**
- b. Any electric installation/conduit etc. for apparatus? **Clarify question**
- c. Installation/purchase new grinder pump? **Site Contract – EC to Wire**
- d. Installation/purchase and excavation of new septic tank? **Site Contract**
- e. Is site contractor responsible for spoils from other primes **Site Contract – Other Primes to stockpile spoils to location shown on plans**
- f. Is site contractor responsible for maintaining concrete washout for primes? **Yes**
- g. Is site contractor responsible to stop 5 feet from building / if so who connects to roof leader? **SC is responsible for all utilities to within 5' of the building. GC will tie in roof leaders to SC installed risers**

- h. Is site contractor reasonable for propane tanks purchase /installation including gas lines. **SC is responsible for propane tanks including trenching and gas lines to generator locations.**

**A21: Responses above**

Q22: Is there a Cad file available? Be very helpful to get the best price for the project. Thank you in advance.

**A22: CAD Drawing attached provided by Chester Valley Engineers**

Q23: Police Evidence High Density storage system - Can you clarify if the system support rails shall be recessed into concrete in advance, or will the rails be mounted directly on slab with subfloor and ramping? The #105626 specs mention both possibilities

**A23: System to be mounted directly on slab with subfloor and ramping**

Q24: Is the Bid Bond Form provided in Addenda #1 the form we are to submit? It shows it being a sample page.

**A24: It is provided to show what AIA form is to be used**

Q25: According to PennBid, the only documents that are required to be submitted with the bid are the Non-Collusion and Public Works Form. Is this correct?

**A25: That is incorrect. Bid Form (for signature purposes), Bid Bond, Non Collusion and Public Works as noted in 002113 Instructions to bidders and shown on PennBid.**

Q26: The Letter of Insurer is not listed in ITB 13.2 as a submission required with the bid nor after award. Please clarify.

**A26: The Letter of Insurer has been added as a requirement for bid submission as noted in 002113 Instructions to bidders and shown on PennBid.**

Q27: Is there any curb on this project? Grading plan does not show Tc/BC.

**A27: There is no curb on the project**

Q28: In the Advertisement for Bids, it says that the low bidder and the next 2 lowest bidders must submit original documents to the construction manager within 2 business days. Is this correct? What happens if the bid results are not posted? Please advise and thank you.

**A28: The bid results are immediate on PennBid**

Q30: Carport Canopy – What is the clear height or eave height for the structure?

**A30: See dwg A2.00, Dtl#01 for more information.**

Q31: The Expansion Joint Covers are not shown on the drawings. Can we get confirmation if joint covers are required and their locations?

**A31: Please provide specific information as point of reference; dwg, dtl, spec, etc.**

32: Can you clarify the need for (2) complete FA panels in Police/Thp Bldg? What is the intent of (2) two separate FACPs? The current design will add thousands of dollars to cost. Not to mention (2) two monitoring costs to municipality. To value engineer this project (1) One FACP could do both buildings, FA devices can be zoned to respective area, and annunciators can be zoned as well. Please advise

**A32: See previous response. Contractors to bid as designed.**



Q33: Bulletproof Windows - Pella is spec'd for the windows on this project, but does not offer the required bulletproof glass. Please advise

**A33: Refer to specification section 08800 'Glazing'.**

Q34: Public Works Building - 1. Will there be plywood sheathing under the roof paneling? It is not called out but appears on wall section 1 on A4.00PW **No plywood sheathing; metal roof panel to be used.**

2. Drawings note standing seam roof panels, spec section 133418, 2.5 shows exposed fastener ribbed panels. Which panel is to be used for roofing? Pre-Engineered Post Fram manufacturer does not produce standing seam roof. Lester Building system offers an "Eclipse" Roof panel, see product data attached. **Dwg note regarding 'standing seam' to be replaced with metal roof panel as indicated in spec section 133418.**

3. Spec section 133418, 2.5.I shows both SMP panel finish, and PVDF panel finish. Which finish to be used? **PVDF**

4. Spec section 133418 2.4.B.e lists both anchor blocks and concrete collar for embedded columns. Wall sections on A4.00PW show anchor block. Which foundation is to be used? **See typical 'foundation' detail on dwg A4.01PW, dtl A 'Foundation Detail – Perma Column'**

5. Detail A on A4.01PW shows permacolumns, all other details show embedded columns. Please clarify which is to be used. **See dwg A4.01PW, dtl A 'Foundation Detail – Perma Column'**

**A34: Answered above**

**SECTION 00.1155 – LETTER OF INSURER**

DATE: \_\_\_\_\_

TO: **Ms. Michelle Reddick**, Township Manager  
**Upper Pottsgrove Township**  
**1409 Farmington Avenue**  
**Pottstown, PA 19464**

Dear **Ms. Reddick**:

The undersigned insurance agent, licensed to do business in the Commonwealth of Pennsylvania and authorized to issue this letter on behalf of the following insurance company or companies:

\_\_\_\_\_  
\_\_\_\_\_

hereby represents that if

\_\_\_\_\_  
(Insert name of Bidder)

is awarded the contract for the construction of the project, as is described in the Contract for Construction, then the above-named insurance company or companies will issue insurance, naming **Upper Pottsgrove Township** and its Architect as additional insured, for the coverages and in the amounts required by the Contract Documents, as set forth in Article 11 of the General Conditions.

\_\_\_\_\_  
(Name of Agent)

By: \_\_\_\_\_  
(Authorized Representative)

**END OF SECTION 00.1155**

**SECTION 004011 - NON-DISCRIMINATION CLAUSE (to be included with bid submission)**

\_\_\_\_\_, hereinafter referred to as the CONTRACTOR, agrees as follows:

1. CONTRACTOR shall not discriminate against any employee, applicant for employment, independent contractor, or any other person because of race, color, religious creed, ancestry, national origin, age, or sex. CONTRACTOR shall take affirmative action to ensure that applicants are employed, and that employees or agents are treated, during employment, without regard to their race, color, religious creed, ancestry, national origin, age or sex. Such affirmative action shall include, but is not limited to, the following: Employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training. CONTRACTOR shall post in conspicuous places, available to all employees, agents, applicants for employment, and other persons a notice to be provided by the contracting agency setting forth the provisions of the non-discrimination clause.
2. CONTRACTOR shall, in advertisement or requests for employment placed by it or on its behalf, state that all qualified applicants will receive consideration for employment without regard to race, color, religious creed, ancestry, national origin, age or sex.
3. CONTRACTOR shall send each labor union or worker's representative with which it has a collective bargaining agreement or other contract or understanding, a notice advising said labor union or workers' representative of its commitment to this non-discrimination clause. Similar notice shall be sent to every other source of recruitment regularly utilized by the CONTRACTOR.
4. It shall be no defense to a finding of non-compliance with the Contract Compliance Regulation Commission or this non-discrimination clause that the CONTRACTOR had delegated some of its employment practices to any union, training program, or other source or recruitment which prevents it from meeting its obligations. However, if the evidence indicates that the CONTRACTOR was not on notice of the third-party discrimination or made a good faith effort to correct it, such factor shall be considered in mitigation in determining appropriate sanctions.
5. Where the practice of a union or any training program or other source of recruitment will result in the exclusion of minority group persons, so that the CONTRACTOR will be unable to meet its obligations under the Contract Compliance Regulations issued by the Pennsylvania Human Relations Commission or this non-discrimination clause, CONTRACTOR shall then employ and fill vacancies through other non-discriminatory employment procedures.
6. CONTRACTOR shall comply with the Contract Compliance Regulations of the Pennsylvania Human Relations Commission, 16 PA Code Chapter 49 and with all state and federal laws prohibiting discrimination in hiring or employment opportunities. In the event of the CONTRACTOR'S noncompliance with the non-discrimination clause of this CONTRACT, or with any such laws, this CONTRACT may, after hearing and adjudication, be terminated or suspended, in whole or in part, and the CONTRACTOR may be declared temporarily ineligible for further contracts and other such sanctions may be imposed and remedies invoked as provided by the Contract Compliance Regulations.
7. CONTRACTOR shall furnish all necessary employment documents and records to, and permit access to its books, records, and accounts by the contracting agency, the Office of Administration, Bureau of Affirmative

Action, and the Human Relations Commission for purposes of investigation to ascertain compliance with the provisions of the Contract Compliance Regulations, pursuant to 49.35 of the regulations cited above (relating to information concerning compliance by contractors). If CONTRACTOR does not possess documents or records reflecting the necessary information requested, it shall furnish such information on reporting forms supplied by the contracting agency, the Bureau of Affirmative Action or the COMMISSION.

8. CONTRACTOR shall actively recruit minority subcontractor or subcontractors with substantial minority representation among their employees.
9. CONTRACTOR shall include the provisions of the non-discrimination clause in every subcontract, so that such provisions will be binding upon each subcontractor.
10. The terms used in this non-discrimination clause shall have the same meaning as in the Contract Compliance Regulations issued by the Pennsylvania Human Relations Commission, 16 PA Code Chapter 49.
11. CONTRACTOR obligations under this clause are limited to the CONTRACTOR'S facilities within Pennsylvania, or, where the contract is for the purchase of goods manufactured outside of Pennsylvania, the facilities at which such goods are actually produced.

CONTRACTOR:

WITNESS:

\_\_\_\_\_

\_\_\_\_\_

By: \_\_\_\_\_

State of \_\_\_\_\_, County of \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

Notary Public: \_\_\_\_\_

My Commission Expires: \_\_\_\_\_

**END OF SECTION**

**TABLE OF CONTENTS**

**VOLUME 1**

**DIVISION 00 – PROCUREMENT & CONTRACTING REQUIREMENTS**

<b>000110</b>	<b>TABLE OF CONTENTS</b>
000115	LIST OF DRAWINGS
001113	ADVERTISEMENT FOR BIDS
001153	CONTRACTOR QUALIFICATION STATEMENT
001153.1	A305 – 2020 - WORKING DRAFT
001153.A	A305 EXHIBIT A – 2020 – FORM DRAFT
001153.B	A305 EXHIBIT B – 2020 – FORM DRAFT
001153.C	A305 EXHIBIT C – 2020 – FORM DRAFT
001153.D	A305 EXHIBIT D – 2020 – FORM DRAFT
001153.E	A305 EXHIBIT E – 2020 – FORM DRAFT
001154	AGREEMENT OF SURETY
<b>001155</b>	<b>LETTER OF INSURER</b>
<b>002113</b>	<b>INSTRUCTION TO BIDDERS</b>
002625	SUBSTITUTION REQUEST FORM
003132	GEOTECHNICAL DATA
003132.1	GEOTECHNICAL REPORT – GILBERTSVILLE
<b>004011</b>	<b>NON-DISCRIMINATION CLAUSE</b>
004116	GENERAL CONSTRUCTION BID FORM
004117	MECHANICAL CONTRACTOR BID FORM
004118	PLUMBING CONTRACTOR BID FORM
004119	ELECTRICAL CONTRACTOR BID FORM
004120	SITE CONTRACTOR BID FORM
004300	BID SECURITY, PAYMENT BOND, PERFORMANCE BOND
004300.01	A312 – 2010 PAYMENT BOND
004300.02	A312 – 2010 PERFORMANCE BOND
004300.03	A310 – 2010 BID BOND
005216	AGREEMENT FORM
005216.1	A132-2019 - AGREEMENT FORM – SAMPLE
005216.2	A132 EXHIBIT A – 2019 – SAMPLE
006119	MAINTENANCE BOND
006119.1	MAINTENANCE BOND – 18 MONTH
006216	CERTIFICATE OF INSURANCE
006216.1	CERTIFICATE OF INSURANCE - SAMPLE
007216	GENERAL CONDITIONS
007216.1	GENERAL CONDITIONS – AIA A232-2019 – SAMPLE
007300	SUPPLEMENTARY CONDITIONS
007343	PREVAILING WAGE RATE REQUIREMENTS
007343.1	PA PREVAILING WAGE RATES
008000	PUBLIC WORK EMPLOYMENT VERIFICATION ACT – PA E VERIFY
008020.1	REDEVELOPMENT ASSISTANCE CAPITAL PROGRAM – PROGRAM GUIDELINES
008020.2	REDEVELOPMENT ASSISTANCE CAPITAL PROGRAM - KEY COMPLIANCE GUIDELINES
008020.3	REDEVELOPMENT ASSISTANCE CAPITAL PROGRAM – FREQUENTLY ASKED QUESTIONS
008020.4	REDEVELOPMENT ASSISTANCE CAPITAL PROGRAM – STEEL GUIDANCE

008020.5	REDEVELOPEMENT ASSISTANCE CAPITAL PROGRAM – ST-2
008020.6	REDEVELOPEMENT ASSISTANCE CAPITAL PROGRAM – ST-3
008020.7	LIST OF EXEMPT MACHINERY AND EQUIPMENT STEEL PRODUCTS
008200	SAFETY & HEALTH MANAGEMENT PLAN
009000	NON-COLLUSION AFFIDAVIT

**DIVISION 01 – GENERAL REQUIREMENTS**

011100	SUMMARY
011100.01	MILESTONE CONSTRUCTION SCHEDULE
011250	SUMMARY OF MULTIPLE PRIMES
011400	WORK RESTRICTIONS
011500	FIELD ENGINEERING
012200	UNIT PRICES
012300	ALTERNATES
012600	CONTRACT MODIFICATION PROCEDURES
012900	PAYMENT PROCEDURES
013100	PROJECT MANAGEMENT AND COORDINATION
013117	COORDINATION DRAWINGS
013200	CONSTRUCTION PROGRESS DOCUMENTATION
013300	SUBMITTAL PROCEDURES
014000	QUALITY REQUIREMENTS
014200	REFERENCES
015000	TEMPORARY FACILITIES AND CONTROLS
015526	TRAFFIC CONTROL
016000	PRODUCT REQUIREMENTS
017300	EXECUTION
017329	CUTTING AND PATCHING
017419	CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL
017700	CLOSEOUT PROCEDURES
017823	OPERATION AND MAINTNENCE DATA
017839	PROJECT RECORD DOCUMENTS
017900	DEMONSTRATION AND TRAINING

**DIVISION 02 – EXISTING CONDITIONS**

020500.0	DEMOLITION, REMOVAL, HAULING
024119	SELECTIVE DEMOLITION

**DIVISION 03 – CONCRETE**

033000	CAST IN PLACE CONCRETE
033000.0	POURED IN PLACE CONCRETE
033300.0	CONCRETE SIDEWALK/VEHICULAR APRON, FOUNDATION (GENERATOR), SLAB, PAD (TRASH ENCLOSURE AREA), CURBS, AND FOOTINGS
033002	CAST IN PLACE CONCRETE FOR UTILITIES
034000	PRECAST CONCRETE PAVING
034826	CONCRETE BUMPER BLOCK

**DIVISION 04 – MASONRY**

042000	UNIT MASONRY
--------	--------------

**DIVISION 05 – METALS**

055000	METAL FABRICATIONS
055119	METAL GRATING STAIRS
055200	RAILINGS AND BARRIERS
055213	PIPE AND TUBE RAILINGS

**DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES**

061000	ROUGH CARPENTRY
061600	SHEATHING
061753	SHOP FABRICATED WOOD TRUSSES
066400	REINFORCED PLASTIC PANELING

**DIVISION 07 – THERMAL AND MOISTURE PROTECTION**

071000	DAMP PROOFING AND WATERPROOFING
071326	SELF-ADHERING SHEET WATERPROOFING
072100	THERMAL INSULATION
072600	VAPOR RETARDERS
072715	WEATHER BARRIERS
073113	ASPHALT SHINGLES
074646	FIBER CEMENT SIDING
076200	SHEET METAL FLASHING AND TRIM
077253	SNOW GUARDS
078413	PENETRATION FIRESTOPPING
078443	FIRE-RESISTIVE JOINT SYSTEMS
079200	JOINT SEALANTS
079500	EXPANSION CONTROL

**DIVISION 08 – OPENINGS**

080671.AD	DOOR HARDWARE SCHEDULE – ADMINISTRATION/PD
080671.PW	DOOR HARDWARE SCHEDULE – PUBLIC WORKS ALTERNATE - GILBERTSVILLE
081113	HOLLOW METAL DOORS & FRAMES
081416	FLUSH WOOD DOORS
083113	ACCESS DOORS AND FRAMES
083323	COILING DOORS
083613	SECTIONAL DOORS
084113	ALUMINUM-FRAMED ENTRANCES AND STOREFRONT
084213	SECURITY ALUMINUM ENTRANCES AND STOREFRONT
085213	ALUMINUM-CLAD WOOD WINDOWS
085653	SECURITY WINDOWS
087100	DOOR HARDWARE
088800	GLAZING
089000	ARCHITECTURAL LOUVERS

**DIVISION 09 – FINISHES**

092216	NON-STRUCTURAL METAL FRAMING
092900	GYPSUM BOARD
093000	TILING

095100	CEILINGS
096500	RESILIENT WALL BASE
096519	RESILIENT TILE FLOORING
096710	FLUID APPLIED FLOORING
096813	TILE CARPETING
097200	VINYL WALLCOVERING
099100	PAINTING

**DIVISION 10 – SPECIALTIES**

101400	INTERIOR TACTILE SIGNAGE
101400.0	SIGNS
101410	PLAQUES
101419	DIMENSIONAL LETTER SIGNAGE
102113	TOILET COMPARTMENTS
102600	WALL PROTECTION
102641	BULLET RESISTANT PANELS
102800	TOILET ACCESSORIES
104400	FIRE PROTECTION SPECIALTIES
105100	METAL STORAGE LOCKERS
105626.13	MOBILE STORAGE SHELVING UNITS
105723	CLOSET AND UTILITY SHELVING
107316	CANOPIES
107516	GROUND SET FLAGPOLES

**DIVISION 11 – EQUIPMENT**

111100	SPECIALTY EQUIPMENT
--------	---------------------

**DIVISION 12 – FURNISHINGS**

122400	WINDOW SHADES
123200	MANUFACTURED PLASTIC LAMINATE CLAD CASEWORK
123600	SOLID SURFACE COUNTERTOPS
125500	DETENTION FURNITURE

**DIVISION 13 – SPECIAL CONSTRUCTION**

133418	ENGINEERED POST FRAME BUILDING SYSTEMS
133419	ENGINEERED CARPORT STRUCTURES

**VOLUME 2**

**DIVISION 22 – PLUMBING**

220518	ESCUTCHEONS FOR PLUMBING PIPING
220523	GENERAL DUTY VALVES FOR PLUMBING PIPING
220529	HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT
220553	IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT
220700	PLUMBING INSULATION
221116	DOMESTIC WATER PIPING
221119	DOMESTIC WATER PIPING SPECIALTIES



221316	SANITARY WASTE AND VENT PIPING
224000	PLUMBING FIXTURES
224700	DRINKING FOUNTAINS AND WATER COOLERS

**DIVISION 23 – HEATING, VENTILATING, AND AIR-CONDITIONING(HVAC)**

230529	HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT
230553	IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT
230593	TESTING, ADJUSTING, AND BALANCING FOR HVAC
230700	HVAC INSULATION
230900	INSTRUMENTATION AND CONTROL FOR HVAC
230993	SEQUENCE OF OPERATIONS FOR HVAC CONTROLS
232300	REFRIGERANT PIPING
233300	AIR DUCT ACCESSORIES
233423	HVAC POWER VENTILATOR
233713	DIFFUSERS, REGISTER, AND GRILLES
238126	SPLIT-SYSTEM HEAT PUMPS AND AIR CONDITIONERS

**DIVISION 26 – ELECTRICAL**

260500	GENERAL REQUIREMENTS
260500.0	GENERAL ELECTRICAL REQUIREMENTS
260529	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
260533	RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS
262416	PANELBOARDS
262726	WIRING DEVICES
262816	ENCLOSED SWITCHES AND CIRCUIT BREAKERS
263213	ENGINE GENERATORS
263600	TRANSFER SWITCHES
265100	LIGHTING FIXTURES
265600	EXTERIOR LIGHTING
265600.0	EXTERIOR LIGHTING

**DIVISION 31 – EARTHWORK**

312000	ROUGH GRADING, EXCAVATION, AND TRENCHING
312500	EROSION AND SEDIMENT CONTROL

**DIVISION 32 – EXTERIOR IMPROVEMENTS**

321216	FURNISHING AND INSTALLATION OF ASPHALT PAVING
321723	PAVEMENT MARKINGS
321823	CONCRETE BUMPER BLOCK
323113	CHAINLINK FENCES AND GATES
323119	DECORATIVE AND CHAIN LINK METAL GATES
323119.0	ORNAMENTAL METAL FENCE
323223	SEGMENTED RETAINING WALL
323913	BOLLARDS
329000	LANDSCAPING
329200	FINE GRADING AND SEEDING

**DIVISION 33 – UTILITIES**

331100	WATER UTILITY DISTRIBUTION PIPING
333000	SANITARY SEWER
334000	STORMWATER UTILITIES
335100	PROPANE VESSELS

**END OF SECTION**

**SECTION 00.2113 – INSTRUCTIONS TO BIDDERS**

**1. DEFINED TERMS**

Terms used in these Instructions to Bidders, which are defined in the Standard General Conditions of the Construction Contract, have the meanings assigned to them in the General Conditions. The term "Bidder" means one who submits a Bid directly to Owner, as distinct from a sub-bidder, who submits a bid to a Bidder. The term "Successful Bidder" means the lowest, qualified, responsible and responsive Bidder to whom Owner (on the basis of Owner's evaluation as hereinafter provided) makes an award. The term "Bidding Document" includes the Advertisement or Invitation to Bid, Instructions to Bidders, the Bid Form, and the Contract Documents (including all Addenda issued prior to receipt of Bids). The numbering system refers to Articles.

**2. COPIES OF BIDDING DOCUMENTS**

- 2.1 Complete sets of .pdf documents may be obtained at no cost via PennBid ([www.pennbid.bonfirehub.com](http://www.pennbid.bonfirehub.com))
- 2.2 Complete sets of Bidding Documents must be used in preparing Bids; neither Owner nor Architect assumes any responsibility for errors or misinterpretations resulting from the use of incomplete sets of Bidding Documents. Bid Documents consist of Contract Documents (and all reference standards), specifications, addenda and drawings. Bidder is responsible to make sure that the set of Bidding Documents is complete and that any printed contract document is legible and represents properly all the information as represented in the PDF file.
- 2.3 Owner and Architect, in making copies of the Bidding Documents available on the above terms, do so only for the purpose of obtaining Bids on the Work and do not confer a license or grant for any other use.

**3. QUALIFICATIONS OF BIDDERS**

- 3.1 To demonstrate qualifications to perform the Work, each Bidder must be prepared to submit upon Construction Manager's request, written evidence such as financial data, insurance certificates, previous experience of the Bidder and its assigned personnel, present commitments and any other information that may be requested by the Construction Manager. Each Bid must contain evidence of Bidder's qualification to do business in the state where the Project is located, or covenant to obtain such qualification prior to award of the Contract. Owner reserves the right to reject Bidder if he cannot satisfy all of the Qualification Requirements, including those listed in the Technical Specifications.
- 3.2 In determining the lowest responsible Bidder, the Owner will consider the Bidder's integrity, efficiency, experience of the Bidder and its assigned personnel, promptness, current work load, financial capability, performance on recent projects, references from Owners, Architects and Engineers, potential list of sub-contractors, schedule of values, and ability to successfully and timely complete the Project. The Owner will scrutinize the apparent low Bidder's information for full disclosure before intent to award is issued. The apparent low Bidder must demonstrate competency and provide any or all of the above information upon immediate request. Owner reserves the right to reject Bid if all the information is not received on time and/or does not satisfy

the Owner's evaluation process. The Owner reserves the right to reject all bids if it is deemed in the best interests of the Owner.

- 3.4 In addition to all the requirements specified in Articles 3.1, 3.2 and 3.3 regarding qualifications of Bidders, the Owner will evaluate bidders using the following additional criteria:

- 3.4.1 The Bidder and its assigned personnel, must have successfully performed a minimum of 3 previous public projects within the last 5 years of similar type or a contract value. Provide references including telephone number and contact person.
- 3.4.2 The Bidder shall perform not less than ten percent (10%) of the actual construction Work with staff employed directly by the company. Project management shall NOT be included in this percentage.
- 3.4.3 The Bidder, or its assigned personnel, must have successfully performed at least 3 public projects within the last 5 years where they have managed multiple trades and coordinated and scheduled all the activities for projects as per 3.4.1. Provide references including telephone number and contact person.
- 3.4.4 An agreement of Surety certifying that the Surety Company is committed to provide the bidder with a Performance Bond and Payment Bond each in the amount of one hundred percent (100%) of the contract amount. The Surety Company must have an AM Best rating of A- or better and a financial rating of Class X or higher. The Surety Company must be registered to conduct business in Pennsylvania, and be in good standing.
- 3.4.5 The Bidder's performance on previous projects including claims, litigation, coordination of work, staffing and timely completion. If it is determined that the bidder does not have a record on previous projects that the Owner in its sole discretion considers to be reasonable, the Owner reserves the right to reject the bid.
- 3.4.6 The Bidder shall also refer to Articles 11 and 16.

#### **4. EXAMINATION OF CONTRACT DOCUMENTS AND SITE**

- 4.1 It is the responsibility of each Bidder, before submitting a Bid, to:
- (1) Examine the Contract Documents thoroughly.
  - (2) Visit the site to become familiar with local conditions that may affect the cost, progress, performance, or furnishing the Work.
  - (3) Consider federal, state, and local laws and regulations that may affect cost, progress, performance, or furnishing of the Work.
  - (4) Study and carefully correlate Bidder's observations with the Contract Documents.
  - (5) Notify Architect of any conflicts, errors, or discrepancies discovered in the Contract Documents.

**4.1.1 REVIEW OF DRAWINGS AND SPECIFICATIONS**

- A. Bidders shall thoroughly examine and be familiar with the Specifications and Drawings. The failure or omission of any Bidder to receive or examine any form, instrument, document, or visit the site and acquaint himself with conditions there existing, shall in no way relieve any Bidder from obligation with respect to his Bid. By submitting a Bid, the Bidder agrees and warrants that he has examined the site and the Specifications and Drawings and, where Specifications and/or Drawings require in any part of the Work a given result to be produced, that the Specifications and Drawings are adequate and the required result can be produced under the Specifications and Drawings. No claim for any extra will be allowed because of alleged impossibilities in the production of the results specified or because of inadequate or improper plans and specifications and whenever a result is required, the successful Bidder shall furnish any and all extras and make any changes needed to produce the required result for the sum stated in the form of proposal.
- B. Should any Bidder find discrepancies, duplications or omissions in the documents or have doubt as to the meaning expressed by the Contract Documents, he shall make inquiry at once in writing to the Architect. Where changes, corrections or clarifications to Contract Documents are deemed necessary by the Architect, he will issue written addenda ("Addenda") accordingly. Addenda shall be a part of the Contract Documents. No oral, telephone or letter instructions will be considered as having effect upon the Contract Documents; Addenda only shall constitute change to them. Bidders and Sub-bidders are urged to make early examination of Contract Documents and make inquiries about them if necessary, even though prices may not be determined until late in the bidding period.

- 4.2 The site will be available for visits at the pre-bid conference and at the other specific designated dates and times determined at the pre-bid.
- 4.3 Information and data reflected in the Contract Documents with respect to Underground Facilities at or contiguous to the site is based upon information and data furnished to Owner and Architect by owners of such Underground Facilities or others, and Owner and Architect do not assume responsibility for the accuracy or completeness thereof. Contractor shall verify the location of all underground utilities prior to any excavation.
- 4.4 General Contractor is responsible, on behalf of the Owner, for providing the physical markings of all existing utilities including those on site as indicated on the drawings or that may be identified in the field. The locations shown on the drawings are approximate. The Bidder must include in his proposal the cost for hand-dug test holes, or other means, to ascertain the precise position of such underground facilities on the site owned by the Owner. This verification should be performed for any utilities to be relocated, removed, modified or that may otherwise interfere with planned work. The utilities in the public right of way will be identified and marked by the appropriate facility owner as per the requirements of the PA One Call Act as amended. Physical layout is to be performed in full compliance with the PA One Call PA Act 287 of 1974 as amended by Act 18 of 1996.

- 4.5 The Owner and Architect will not be responsible for the adequacy of data furnished to prospective Bidders on subsurface conditions, Underground Facilities and other physical conditions. This information is provided based on information available. Bidder assumes responsibility for verifications, adjustments and modifications that may be required since this is generally recognized as inherent to the work of the Contract Documents.
- 4.6 Before submitting a Bid, each Bidder will, at Bidder's expense, make or obtain any additional examinations, investigations, explorations, tests and studies and obtain any additional information and data which pertain to the physical conditions (surface, subsurface and Underground Facilities) at or contiguous to the site or otherwise which may affect cost, progress, performance or furnishing the Work and which Bidder deems necessary to determine its Bid for performing and furnishing the Work in accordance with the time, price and other terms and conditions of the Contract Documents.
- 4.7 On request in advance, Owner will provide each Bidder access to the site to conduct such explorations and tests, as each Bidder deems necessary for submission of a Bid. Bidder shall fill all holes, clean up and restore the site to its former condition upon completion of such explorations.
- 4.8 The lands upon which the Work is to be performed, rights-of-way and easements for access thereto and other lands designated for use by the Bidder in performing the Work are identified in the Contract Documents. All additional lands and access thereto required for temporary construction facilities or storage of materials and equipment are to be provided by Bidder. Easements for permanent structures or permanent changes in existing structures are to be obtained and paid for by Owner unless otherwise provided in the Contract Documents.
- 4.9 The submission of a Bid will constitute an incontrovertible representation by Bidder that Bidder has complied with every requirement of the bid documents and, that without exception, the Bid is premised upon performing and furnishing the Work required by the Contract Documents and such means, methods, techniques, sequences or procedures of construction as may be indicated in or required by the Contract Documents, and that the Contract Documents are sufficient in scope and detail to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

## **5. INTERPRETATIONS AND ADDENDA**

- 5.1 All questions about the meaning or intent of the Contract Documents are to be directed as listed below. Interpretations or clarifications considered necessary by the Architect in response to such questions will be issued by Addenda mailed or delivered to all parties recorded by Construction Manager/Architect as having received the Bidding Documents. Questions received after May 12, 2025 will not be answered
- 5.2 Only questions answered by formal written Addenda will be binding. Oral or other interpretations or clarifications will be without legal effect.  
Addenda may also be issued to modify the Bidding Documents as deemed advisable by Construction Manager, Owner or Architect.
- 5.3 All questions must be submitted in writing

**6. BID SECURITY AND BOND REQUIREMENTS**

- 6.1 A proposal shall be rejected unless accompanied by a Bid Security in the amount of ten percent (10%) of the total of the Base Bid and all possible add alternates. Bid Security shall be in the form of a certified check or bank cashier's check payable to Owner or a Bid Bond in the form set forth herein, naming as obligee, the Owner.
- 6.2 The Owner may declare the Bid Security forfeited to the Owner if, following such issuance of a Notice of Intent to Award to the apparent lowest responsible Bidder, such Bidder fails to deliver the items required for complete evaluation and for contract execution required by the Bid Documents and within the time required by the Bid Documents.
- 6.3 If Bid Security is submitted in the form of a Bid Bond, the Bid Bond shall be submitted on the form referenced in the Bidding Documents, and the Attorney-in-Fact who executes the bond on behalf of the surety shall affix to the bond a certified and current copy of its Power of Attorney, authorizing said Attorney-in-Fact to act on behalf of the surety. The Power of Attorney must be dated the same date as the Bid Bond and both the Bid Bond and Power of Attorney shall have affixed the raised corporate seal of the surety. The Bid Bond form, as well as the Performance Bond and Payment Bond forms, must be executed by a surety licensed and authorized to conduct business as a surety within the Commonwealth of Pennsylvania, have an AM Best rating of 'A-' or higher and a financial rating of Class X or higher and shall be named in the current list of companies holding Certificates of Authority as acceptable sureties on federal bonds and/or as acceptable reinsuring companies as published in Circular 570 (as amended) by the Audit Staff, Bureau of Government Financial Operations, U.S. Treasury Department, and the amount of the bond shall not exceed the underwriting risk of such surety set forth in said circular of revisions thereof. Any bond must be acceptable to Owner.
- 6.4 The Bid Security of Bidders will be returned (unless forfeited as stated above) at the Bidder's request, upon (1) the execution of the Agreement Between Owner and Contractor by Owner, or (2) the rejection of all bids by Owner, or (3) the expiration of the firm bid period set forth in Section 12 of these Instructions to Bidder. The Owner shall not be liable for any interest on bid security which is held in accordance with these Bidding Instructions.

**7. NON-COLLUSION AFFIDAVIT**

More than one proposal for the contract from an individual, partnership, corporation, or an association under the same or different name will be grounds for the rejection of all proposals in which such Bidder is interested. Any or all proposals will be rejected if there is reason for believing that collusion exists among any of the Bidders. Participants in such collusion will not be considered in future proposals. A Non-Collusion Affidavit shall be executed and submitted with the Bidder's proposal using the form set forth herein.

**8. CONTRACT TIME**

The Bidder acknowledges that a condition of the Contract is that time is of the essence of the Contract and the number of calendar days within which, or the dates by which, the Work is to be substantially

completed and completed and ready for final payment (the Contract Time) are set forth in the Contract Documents and are accepted by the Bidder without exception or conditions.

**9. LIQUIDATED DAMAGES**

Provisions for liquidated damages are **\$1500.00 per day.** ~~set forth in the Contract Documents.~~

**10. SUBSTITUTE OR "OR-EQUAL" ITEMS**

The various materials and products specified in the specifications by name or description are given to establish a minimum acceptable standard of quality and of cost for bid purposes. When proprietary names are used, and there does not follow a "listing" of acceptable approved manufacturers and/or products, then the proprietary named item must be included in the bid proposal without substitution. When proprietary names are used, and there follows a "listing" of acceptable "approved" manufacturers and/or products, then the bidder may base the bid on either the proprietary product or any from the "listing". Bidders may request approval prior to bid opening of non-listed items in accordance with the specifications. When proprietary names are used, and there are alternates on the bid form, then the bidder shall base his bid on the proprietary product or any from the "listing" of approved manufacturers and/or products. The bidder must furnish the specified or listed item regardless of whether or not they were included in his bid. The bidder shall be required to coordinate and pay for any conditions which are required to accommodate the listed or alternate item, including the reimbursement of other affected prime contractors.

No substitutions (alternatives) will be considered prior to receipt of Bids unless written request for approval has been received by the Architect only from prime Contract Bidders at least ten days prior to the date for receipt of Bids. Such requests shall be in accordance with substitution request procedure, and any other requirements at the Architect, Owner or Construction Manager's discretion.

In order to prequalify, all alternative Manufacturers' information should be submitted by a prime contract bidder and should include:

- Technical, warranty, and Manufacturer's data specified. A line-by-line comparison of all specified items in the Specification must be made. Submission must be made ten (10) days prior to Bid opening.
- Architect will review submission and any acceptable substitutions will be listed in an addendum. All manufacturers not specifically approved by addendum shall not be considered.
- Only manufacturers that are qualified prior to the Bid Opening will be considered acceptable Manufacturers.

10.1 The approval of a substitution shall be at the sole determination of the Architect and upon approval of the Construction Manager and Owner, if a proposed substitution (alternative) is approved prior to receipt of Bids, such approval will be set forth in an addendum. Bidders shall not rely upon approvals in any other manner. If a proposed substitution is not specifically approved by addendum they are rejected.

10.2 No substitutions (alternatives) will otherwise be considered after the Contract award.



- 10.3 No substitutions (alternatives) will be considered for pre-bid approval later than ten (10) days before bids are due.

## **11. SUBCONTRACTORS, SUPPLIERS, AND OTHERS**

- 11.1 All subcontractors proposed for the project shall have been in business for a minimum of five (5) years and must have a successful record of completing, at a minimum, five (5) projects of similar size and cost. Subcontractors must also have business insurance, workmen's compensation, adequate resources of man power, tools and equipment and must be defined as an independent contractor by the IRS.
- 11.2 At the Owner's request the identity of certain Subcontractors, Suppliers and other persons or organizations (including those who are to furnish the principal items of material and equipment) is to be submitted to Owner in advance by the apparent Successful Bidder, and any other Bidder so requested. Within a maximum of five (5) days after the Bid Opening, the apparent Successful Bidder, and any other Bidder so requested shall submit to Owner a list of all such Subcontractors, Suppliers and other such persons or organizations proposed for those portions of the Work for which such identification is required. An experience statement shall accompany such list with pertinent information regarding similar projects and other evidence of qualification for each such Subcontractor, Supplier, person or organization if requested by Owner. If Owner and Construction Manager, after due investigation, have reasonable objections to any proposed Subcontractor, Supplier, and other person or organization, then Owner may, before the Notice of Award is given, request the apparent Successful Bidder to submit an acceptable substitute without an increase in Bid Price.
- 11.3 If apparent Successful Bidder declines to make any such substitution, Owner may award the Contract to the next lowest Bidder that proposed to use acceptable Subcontractors, Suppliers, and other persons and organizations. Declining to make requested substitutions will not constitute grounds for sacrificing the Bid Security of any Bidder.

## **12. BID FORM**

- 12.1 THE BID FORM SHALL NOT BE ALTERED. ALTERED BID FORMS MAY BE CONSIDERED NON-RESPONSIVE AND MAY BE REJECTED.**
- 12.2 The Bid Form is included with the Bidding Documents; NO additional copies will be provided. Bidders are to complete the bid forms electronically within PennBid.
- 12.3 All information should be entered directly into PennBid excel forms as it relates to monies on base bid, alternates , unit prices etc. The only item required on the uploaded Bid Form is contractor name and signature page.
- 12.4 Bids by corporations must be executed in the corporate name by the president or a vice-president (or other corporate officer accompanied by the evidence of authority to sign) and the corporate seal must be affixed and attested by the secretary or an assistant secretary. The corporate address and state of incorporation must be shown below the signature.

- 12.5 Bids by partnership must be executed in the partnership name and signed by a partner, whose title must appear under the signature, and the official address of the partnership must be shown below the signature.
- 12.6 All names must be typed or printed below the signature.
- 12.7 The Bid shall contain an acknowledgement of receipt of all Addenda (the numbers of which must be filled in on Penn Bid Acknowledgement ). Properly issued Addenda shall be binding upon all Bidders, regardless of whether a Bidder fails to acknowledge receipt.
- 12.8 The address and telephone number for communications regarding the Bid must be shown.
- 12.9 If there is a discrepancy between the written words and numerical figures written on the bid form, the written words shall prevail.

### 13. SUBMISSION OF BIDS

- 13.1 Bids shall be submitted electronically via PennBid. Bids submitted by any other means shall not be considered. One copy of all Documents required to be submitted at the time of Bid shall be submitted as part of the uploaded "Documents".
- 13.2 Submission required as follows:

#### Submissions required with the Bid

- A. ☐ Form of Proposal, fully executed and notarized
- B. ☐ Bid Bond or Certified Check or Cashier's Check in the amount of 10% of the Bid total and shall include Consent of Surety and Power of Attorney
- C. ☐ Non-Collusion Affidavit (notarized)
- D. ☐ Public Works Employment Verification Form
- E. ☐ **Letter of Insurer**
- F. ☐ **Non-Discrimination Clause (notarized)**

#### Submissions required after Award of the Contract (Within 48 hours of request from CM)

- A. ☐ Bidder's Qualifications, AIA A305, completed
- B. ☐ Performance Bond and Payment Bond
- C. ☐ Certificate of Insurance

- D. [ ] A Schedule of Values.
- E. [ ] List of Subcontractors.
- F. [ ] Safety & Health Management Plan

#### **14. MODIFICATIONS AND WITHDRAWAL OF BIDS**

- 14.1 Bidders may modify or withdraw their bid within PennBid at any time prior to the due date and time listed within the Invitation to Bid.
- 14.2 Bids shall be irrevocable for ninety (90) days after the actual day of opening thereof unless delayed by the required approval of another governmental agency, the sale of bonds or the award of a grant, in which case, Bids shall be irrevocable for 120 days after Bid opening. Extensions of the date for the award of contract may be made by the mutual written consent of Owner and the lowest responsible and responsive Bidder.
- 14.3 Neither the designation of the apparent lowest responsible Bidder, nor the issuance of a Notice of Intent to Award to the Bidder so designated shall operate to release any other Bidder from its Bid. Each such other Bidder, unless earlier released from its Bid by specific action of the Owner, shall remain bound by its Bid until the earlier of (1) the date of actual execution by Owner of the Agreement Between Owner and Contractor with the Bidder whom the Award of Contract has been made, or (2) the expiration of the firm Bid period stipulated above.
- 14.4 Negligence by the Bidder in preparing his proposal confers no right of withdrawal or modification of his proposal after such proposal has been opened. No claims on account of mistakes or omissions of any proposal will be considered. Notwithstanding the above, a Bidder may withdraw his proposal within two (2) business days after the Bid opening time in accordance with the Public Contracts – Withdrawal of Bids Law, Act of January 23, 1974, P.L. 9, No. 4, 73 P.S. §1601 et seq., as amended. A Bid which has been opened may be withdrawn only in accordance with the causes set forth in said Act and for no other reasons. Strict compliance with said Act is required to withdraw a Bid after opening.

#### **15. OPENING OF BIDS**

Bids will be opened and (unless obviously non-responsive) read aloud publicly. An abstract of the amounts of the Base Bids and major alternate(s) (if any) will be made available to Bidders after the opening of the Bids via PennBid.

#### **16. AWARD OF CONTRACT**

- 16.1 The Owner's intent is to enter into Contracts with the lowest responsible and qualified Bidders.

Bid forms shall NOT BE ALTERED IN ANY MANNER. Owner reserves the right to reject any and all bids, to waive all informalities or technicalities and to negotiate contract terms with the Successful Bidder, and the right to disregard all nonconforming, non-responsive, unbalanced or conditional bids. Also, Owner reserves the right to reject the Bid of any Bidder if Owner believes that it would not be in the best interest of the Project to make an award to that Bidder, whether because the Bid is not responsive or the Bidder is unqualified or of doubtful financial ability or fails to meet any other pertinent standard or criteria established by Owner. Discrepancies in the multiplication of units of Work and unit prices will be resolved in favor of the correct sum.

- 16.2 In evaluating Bids, Owner will consider the qualifications of such Bidders (see Article 3), whether or not the Bids comply with the prescribed requirements, and such alternates, unit prices and other data, as may be requested in the Bid Form or prior to the Notice of Award.
- 16.3 Owner may consider the qualifications and experience of Subcontractors, Suppliers, and other persons or organizations proposed for any portions of the Work requested by Owner. Owner also may consider the operating costs, maintenance requirements, performance data and guarantees of major items of materials and equipment proposed for incorporation in the Work when such data is required to be submitted prior to the Notice of Award.
- 16.4 Owner may conduct such investigations as Owner deems necessary to assist in the evaluation of any Bid and to establish the responsibility, qualification and financial ability of Bidders, Subcontractors, Suppliers, and other persons or organizations to perform and furnish the Work in accordance with the Contract Documents to Owner's satisfaction within the prescribed time.
- 16.5 If the Contract is to be awarded, Owner will give the Successful Bidder a Notice of Intent to Award within ninety (90) days after the day of Bid Opening unless delayed by the required approval of another governmental agency.
- 16.6 The Owner reserves the right to waive non-material defects in any bid if it determines that it is in its best interest to do so. The Owner reserves the right to reject all bids.

## **17. CONTRACT SECURITY & INSURANCE**

The General Conditions and the Supplementary Conditions set forth Owner's requirements as to Performance, Payment Bonds and Insurance requirements.

- 17.1 The apparent low bidder must provide Payment and Performance Bonds in the form included in the Contract Documents within 10 days of the issuance of Notice of Intent to Award. Other bond forms will not be accepted. Failure of the apparent low bidder to provide original executed Payment and Performance Bonds in the required form within the required time will result in forfeiture of the Bid Security.

## **18. SIGNING OF AGREEMENT**

When Owner issues Intent to Award to the Successful Bidder, the Bidder shall within ten (10) days thereafter, deliver to the Owner, four (4) original copies of the required Bonds and Insurance Certificates. Within ten (10) days thereafter, the Construction Manager will deliver four (4) agreements to Bidder. The Bidder shall sign the agreements and return all original documents to the Construction Manager. The

Construction Manager will forward the agreements to the Owner for signature. The Owner will return one (1) signed agreement to the Bidder and Construction Manager.

**19. RETAINAGE**

Retainage will be in accordance with the Contract Documents.

**20. PREVAILING WAGES**

Pennsylvania Prevailing Wage Predetermination rates will apply to this Project. The Bidder shall keep an accurate record showing the name, craft and actual hourly rate of wage paid to each workman employed by him and such record shall be preserved for two years from date of payment. The records shall be open at all reasonable hours to the inspection of the public body awarding the Contract and to the Secretary of the Department of Labor and Industry. The Architect and Construction Manager assume no responsibility to verify or document records of the Bidder or Contractor(s). Any failure of the Contractor or notification to the same in regards to wage rates or payment will require the Owner to withhold payments until the record is resolved.

**21. COMPETENT WORKMEN**

No person shall be employed to perform any work under the Contract if they are not legally eligible to be employed under applicable state and federal law or if they are not a trained, competent workman or mechanic, as applicable. For purposes of this Section, no workman or mechanic, as applicable, shall be regarded as competent unless he shall be duly skilled in the applicable branch of labor.

21.1 The Commonwealth of Pennsylvania enacted Act 127 of 2012, known as the Public Works Employment Verification Act ('the Act') which requires all public work contractors and subcontractors to utilize the Federal Government's E-Verify system to ensure that all employees performing work on public work projects are authorized to work in the United States.

The Department defines a "Public Work" to be construction, reconstruction, demolition, alteration and/or repair work other than maintenance work, done under contract and paid for in whole or in part out of the funds of a public body where the estimated cost of the total project is in excess of twenty-five thousand dollars (\$25,000) but shall not include work performed under a rehabilitation or manpower training program.

The Department of General Services' Public Works Employment Verification Compliance Program is responsible for the administration, education and enforcement of the Public Works Employment Verification Act 127 of 2012. It provides contractors and subcontractors with educational outreach, conducts investigations when complaints are received and random audits to ensure compliance with the requirements of this Act.

Please direct your questions to the Public Works Employment Verification Compliance Office

Mail: Department of General Services Public Works  
Employment Verification Compliance Office Room 105 Tent Bldg.  
18th & Herr Streets  
Harrisburg, PA 17125

Fax: 717-214-3669

Statement of Policy as published in the Pennsylvania Bulletin, December 29, 2012, and effective January 1, 2013. Public Works Employment Verification Form attached.

- 21.2 Before commencing the Work, Contractor shall supply the Owner with state and federal criminal history reports and child abuse clearances for all employees, agents and subcontractors who will be on the Owner's property. The original clearances must be presented to the Owner prior to each employee, agent or subcontractor coming on the Owner's property. All such clearances shall be dated no earlier than one year prior to the date of presentation to the Owner. The Owner shall retain a copy of all such clearances in its file. Notwithstanding any other provision of the Contract, violation of this provision shall constitute grounds for immediate termination of the contract by the Owner.

**22. PENNSYLVANIA HUMAN RELATION ACT 222:**

- 22.1 Human Relations Act: The provisions of the Pennsylvania Human Relations Act, Act 222 of October 27, 1955 (P.L. 744) (43 P.S. Section 951, et. Seq.) of the Commonwealth of Pennsylvania prohibit discrimination because of race, color, religious creed, ancestry, age, sex, national origin, handicap or disability, by employers, employment agencies, labor organizations, contractors and others. The Contractor shall agree to comply with the provisions of this Act as amended that is made part of this specification. Your attention is directed to the language of the Commonwealth's non-Discrimination Clause in 16 PA Code 49.101.

**23. NON-DISCRIMINATION / SEXUAL HARASSMENT:**

- A. In the hiring of any employees for the manufacture of supplies, performance of work, or any other activity required under the Contract or any subcontract, the GRANTEE, subcontractor or any person acting on behalf of the GRANTEE or subcontractor shall not by reason of gender, race, creed, or color discriminate against any citizen of this Commonwealth who is qualified and available to perform the work to which the employment relates.
- B. Neither the CONTRACTOR nor any subcontractor nor any person on their behalf shall in any manner discriminate against or intimidate any employee involved in the manufacture of supplies, the performance of work or any other activity required under the Contract on account of gender, race, creed or color.
- C. The CONTRACTOR and any subcontractors shall establish and maintain a written sexual harassment policy and shall inform their employees of the policy. The policy must contain a notice that sexual harassment will not be tolerated and employees who practice it will be disciplined.
- D. The CONTRACTOR shall not discriminate by reason of gender, race, creed, or color against any subcontractor or supplier who is qualified to perform the work to which the contract relates.
- E. The CONTRACTOR and each subcontractor shall furnish all necessary employment documents and records to and permit access to its books, records, and accounts by the contracting officer

and the Department of General Services' Bureau of Contract Administration and Business Development for purposes of investigation to ascertain compliance with the provisions of this Nondiscrimination/Sexual Harassment Clause. If the CONTRACTOR or any subcontractor does not possess documents or records reflecting the necessary information requested, it shall furnish such information on reporting forms supplied by the contracting officer or the Bureau of Contract Administration and Business Development.

- F. The CONTRACTOR shall include the provisions of this Nondiscrimination/Sexual Harassment Clause in every subcontract so that such provisions will be binding upon each subcontractor.
- G. The Commonwealth may cancel or terminate the Contract, and all money due or to become due under the Contract may be forfeited for a violation of the terms and conditions of this Nondiscrimination/Sexual Harassment Clause. In addition, the agency may proceed with debarment or suspension and may place the GRANTEE in the Contractor Responsibility File.

#### **24. ANTI-POLLUTION LEGISLATION**

- A. On October 26, 1972, House Bill Number 1969 was enacted into law. This Act (No. 247) became effective on November 25, 1972. It requires that Bidders on construction contracts for the Commonwealth of Pennsylvania be advised of those provision of Federal and State statutes, rules and regulations dealing with the prevention of environmental pollution and the preservation of public natural resource that affect the Project on which bids are being received.
- B. The Bidder shall thoroughly acquaint itself with the terms of the listed statutes, rules and regulations. No separate or additional payment will be made for such compliance. In the event that the listed statutes, rules and regulations are amended or if new statutes, rule or regulations become effective after date of receipt of bids, upon receipt of documentation which causes the Contractor to perform additional work, the Owner may issue a change order or deviation request setting forth the additional work that must be undertaken. This change order or deviation request shall not invalidate the Contract.
- C. It is the responsibility of the Contractor to determine what local ordinances, if any, will affect its work. They shall check for any county, city, borough or township rules or regulations applicable to the area in which the project is being constructed and, in addition, for any rules or regulations of other organizations having jurisdiction, such chambers-of-commerce, planning commissions, industries or utility companies who have jurisdiction over lands which the Contractor occupies. Any costs of compliance with local controls shall be included in the price bid, even though document of such local controlling agencies are not listed herein.

#### **25. EROSION CONTROL**

- A. General Contractor shall comply with all rules and regulations of Chapter 102, Title 25 of Pennsylvania Soil Erosion and Sedimentation Control.
- B. The plan shall be maintained at site and shall indicate how the Contractor plans to control erosion caused by storm water and prevent silt and sedimentation being distributed off site.

- C. Control shall be provided by channels, dikes, sedimentation basins, protection of stockpiled or uncontrolled soil or any other means necessary, all in accordance with the requirements of the Pennsylvania Department of Environmental Resources.

## **26. PUBLIC WORKS CONSTRUCTION CONTRACTS**

In consideration of the funds awarded and activities funded under this CONTRACT which involve construction, reconstruction, alteration, repair, improvement, or maintenance of a building, structure, or improvement ("The Work"), the CONTRACTOR agrees to perform in accordance with the following:

- A. Steel Products Procurement Act. In the performance of any contract awarded for Work, the contract, subcontractors, materialmen, or suppliers shall use only steel products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated, or otherwise similarly processed, or 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. Steel products include not only cast-iron products, but also machinery and equipment listed in United States Department of Commerce Standard Industrial Classifications 25 (furniture and fixtures), 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, it shall be determined to be a United States steel product only if at least 75 percent 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 only if it complies with Section 165 of P.L. 97-424 (96 Stat. 2136).

When unidentified steel products are supplied under a contract for Work, before any payment will be made, the contractor must provide documentation including, but not limited to, invoices, bills of lading, and mill certification that the steel was melted and manufactured in the United States. If a steel product is identifiable from its face, the contractor must submit certification which satisfies the using agency that the contractor has fully complied with this provision. OB shall not provide for or make any payments to any person who has not complied with the Steel Products Procurement Act (hereinafter referred to as the "SPPA"). Any such payments made to any person by OB which should not have been made as a result of the SPPA shall be recoverable directly from the contractor, subcontractor, manufacturer, or supplier who did not comply with the SPPA.

In addition to withholding of payments, any person who willfully violates any of the provisions of the SPPA shall be prohibited from submitting any bids to any public agency for a period of five years from the date of the determination that a violation has occurred. In the event the person who violates the provisions of the SPPA is a subcontractor, manufacturer, or supplier, such person shall be prohibited from performing any work for, or supplying any materials to, a public agency for a period of five years from the date of the determination that a violation has occurred.

The CONTRACTOR shall include the provisions of the SPPA in every subcontract and supply contract so that the provisions of the SPPA shall be binding upon each subcontractor and supplier.



- B. Trade Practices Act. In accordance with the Trade Practices Act of July 23, 1968, P.L. 686 (71 P.S. §773.101 et seq.), the CONTRACTOR cannot and shall not use or permit to be used in the Work any aluminum or steel products made in a foreign country which discriminates against aluminum or steel products manufactured in Pennsylvania. The countries of Argentina, Brazil, South Korea, and Spain have been found to discriminate against certain products manufactured in Pennsylvania. Therefore, the purchase or use of those countries' products, as listed below, is not permitted.
- a. Argentina: carbon steel wire rod and cold-rolled carbon steel sheet.
  - b. 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.
  - c. South Korea: welded carbon steel pipes and tubes; hot-rolled carbon steel plate; hot-rolled carbon steel sheet; and galvanized steel sheet.
  - d. 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.

Penalties for violation of the above paragraphs may be found in the Trade Practices Act, which penalties include becoming ineligible for public works contracts for a period of three years.

This provision in no way relieves the CONTRACTOR of responsibility to comply with those provisions of this CONTRACT which prohibit the use of foreign-made steel and cast-iron products.

- C. Public Works Contractor's Bond Law of 1967. Prior to the award of any contract for any Work on the Project, the contractor to whom the contract is to be awarded must furnish the following bonds which shall become binding upon the award of such contract:
- 1. A performance bond at 100 percent of the contract amount, conditioned upon the faithful performance of the contract in accordance with the plans, specifications, and conditions of the contract. Such bond shall solely for the protection of the contracting body which awarded said contract.
  - 2. A payment bond at 100 percent of the contract amount. Such bond shall be solely for the protection of claimants supplying labor or materials to the CONTRACTOR, its contractor or to any of its subcontractors, in the prosecution of the work provided for in such contract, and shall be conditioned for the prompt payment of all such material furnished or labor supplied or performed in the prosecution of the work. "Labor or materials" shall include public utility services and reasonable rentals of equipment, but only for periods when the equipment rented is actually used at the site.

- D. Pennsylvania Prevailing Wage Act. The CONTRACTOR, its subgrantees, contractors and subcontractors shall comply with the provisions, duties, obligations, remedies, and penalties of the Pennsylvania Prevailing Wage Act, 42 P.S. § 165-1 et seq. which is incorporated herein by reference as if fully set forth herein. 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 work on the Project during the term hereof for the locality in which the work is to be performed.

**27. SEVEREABILITY**

- A. Should any section or any part of any section of this CONTRACT be rendered void, invalid, or unenforceable by any court of law, for any reason, such a determination shall not render void, invalid, or unenforceable any other section or part of any section of this CONTRACT.

**28. AMERICANS WITH DISABILITIES ACT**

During the term of this CONTRACT, the CONTRACTOR agrees as follows:

- A. Pursuant to federal regulations promulgated under the authority of The Americans with Disabilities Act, 28 C.F.R. § 35.101 et. Seq., the CONTRACTOR understands and agrees that no individual with a disability shall, on the basis of the disability, be excluded from participation in this CONTRACT or from activities provided for under this CONTRACT. As a condition of accepting and executing this CONTRACT, the CONTRACTOR agrees to comply with the General Prohibitions Against Discrimination, 28 C.F.R. § 35.130, and all other regulations promulgated under Title II of The Americans with Disabilities Act which are applicable to all benefits, services, programs, and activities provided by the COMMONWEALTH through contracts.
- B. The CONTRACTOR shall be responsible for and agrees to indemnify and hold harmless the COMMONWEALTH from all losses, damages, expenses, claims, demands, suits, and actions brought by any party against the COMMONWEALTH as a result of the CONTRACTOR failure to comply with provisions of paragraph A above.

**29. HEALTH AND SAFETY**

Bidders shall comply with the provisions of the Occupational Safety and Health Administration, Federal Act 91-596 of December 29, 1970, and with any other safety and health regulations for district in which the Work is performed.

**30. BONDS AND INSURANCE**

- 30.1 The Bidder will be required to furnish a Bid Bond, Performance Bond and Labor and Material Payment Bonds in the amount of one hundred percent (100%) of the Contract Price in the form provided in the Contract Documents. Said Sureties shall be listed on the current Federal Register and have an AM Best rating of 'A-' or better and a financial rating of Class X or higher.
- 30.2 Insurance companies must be rated 'A-' or better in A.M. Best.
- 30.3 Bidder shall include the cost of the Bonds & Insurance in their Bid.

30.4 Bidder shall provide the insurance required in the General Conditions.

**31. PRE-BID CONFERENCE**

The Non-mandatory Pre-bid Conference will be held on the date and time listed on the Invitation to Bidders. Representatives of Owner, Construction Manager and Architect will be present to discuss the Project. Architect will transmit to all prospective Bidders of record such Addenda, as Architect considers necessary in response to questions arising at the Conference. Non attendees will not be permitted to bid.

**32. ALTERNATES**

All requested alternates as defined in Division 01 of the bid documents shall be bid. Provide prices for those alternates indicated on the Form of Proposal. Include changes to Contract Sum. Methods for bidding Alternates are as specified in Division 01.

- 32.1 The Bidder agrees to modify the base bid by the amounts stated for alternates as requested on the Bid Form and specified in the Bidding documents.
- 32.2 The Owner may accept or reject any or all of the alternates in any order.
- 32.3 Alternate work shall be completed within the same time frame as indicated on the Contract Documents for associated work. No alternate shall modify the project material allowances unless stated within the allowance description.
- 32.4 If there is no change in the contract amount for any alternate write NO CHANGE or zero (0) in the blank.
- 32.5 All alternates MUST be bid. If there is no bid for the Alternate, and if Owner selects alternate not bid, the bidder may not receive the award.
- 32.6 Enter the amount for each alternate on the line pre-marked as "ADD" or DEDUCT". Where both the words "ADD and "DEDUCT" are provided for an alternate, strike through one of the words so that the appropriate word remains.
- 32.7 The failure to enter an amount in the blanks for an alternate shall be treated conclusively as a Bid of zero dollars for the work described in the alternate.

**33. UNIT PRICES**

Provide unit prices filled-in on the form of proposal in accordance with requirements specified in the proposal/bid form and bidding requirements. Unit costs will be used for adjustment of the Contract Sum if any are required. The Owner reserves the right to reject any unit prices bid.

**34. ALLOWANCES**

Include all allowances listed on the Bid Form and project drawings and specifications in the base bid price. Do not adjust allowances for any alternates unless specifically listed in the alternate. All allowances MUST include all overhead and profit.

**35. PROJECT FINANCING**

- A. The work to be done under this Contract is public work and may be financed in whole or part by the Owner (a public body) by issuance of bonds or procurement of grants, which are subject to various qualifications and restrictions. The Owner, in such case and in good faith, intends to consummate such financing, but its ability to do so is subject to many factors beyond its control. It is therefore expressly understood and agreed to by each bidder that, notwithstanding any other provision of the Contract Documents, the Owner may at any time cancel any award made by it, or cancel any contract entered into with any bidder, without liability to the bidder, at any time before the bidder has been given written notice to proceed and has actually begun Work under the Contract if financing satisfactory to the Owner cannot reasonably be consummated as contemplated, or if any court of competent jurisdiction shall enjoin or otherwise prohibit the Owner from proceeding with the Work. The bidder shall have the right to cancel the Contract in accordance with the Pennsylvania Commonwealth Procurement Code, 62 Pa.C.S. § 3911.
- B. This Owner intends to apply for the Redevelopment Assistance Capital Program (RACP). It is intended that the Project is being financed in part by this program. The RACP program is a grant program, and it is further described in the Attachments to this Section. The Project must comply with all requirements for this grant program. The Grant Agreement between the Owner (Grantee) and the Commonwealth of Pennsylvania (Grantor) sets forth the following requirements incumbent upon the construction Contractors:
1. RACP Program Guidelines attached in spec section 008020
  2. The Contractor, for itself and its Subcontractors and suppliers, agrees to notify the Owner and Architect within 7 days following any suspension or debarment by the Commonwealth of Pennsylvania, the federal government, or any other state or governmental entity.
  3. The Contractor agrees that records related to or arising out of the Grant Agreement between the Owner and the Commonwealth of Pennsylvania ("the Commonwealth") are subject to request made pursuant to the Pennsylvania Right-to-Know Law, 65 P.S. § § 67.101-3104, ("RTKL"). Exhibit 'B' attached hereto and made a part hereof is a true and correct copy of that portion of the Grant Agreement setting forth the RTKL provisions, with which Contractor agrees to abide. References therein to "Subgrantee" refer to the Contractor.
  4. The Contractor agrees to allow the Owner, or its authorized representative, access to review the pertinent records and other documents of the Contractor and its subcontractors for the Owner's purpose in performing a final audit for closeout of the Grant. Contractor and all subcontractors shall cooperate fully with Owner in this task.

**END OF SECTION 00.2113**

## SECTION 133418 - ENGINEERED POST FRAME BUILDING SYSTEMS

### PART 1 - GENERAL

#### 1.1 SUMMARY

A. Section Includes:

1. Engineered wood-framed structures consisting of the following components:
  - a. Factory-engineered wall columns.
  - b. Factory-engineered roof truss.
  - c. Factory-engineered metal roof and wall panels.
  - d. Factory-engineered building system accessories including doors and windows.
  - e. Prefinished metal trim items.
  - f. Prefinished ridge vents and soffits.
  - g. Roof and Wall Insulation

#### 1.2 REFERENCES

A. Reference Standards:

1. Preservative Treated Lumber:
  - a. American Wood Preservers Association (AWPA).
2. Lumber grading rules and wood species:
  - a. National Design Specifications for Wood Construction, current edition.
  - b. Northeastern Lumber Manufacturer's Association, Inc. (NELMA).
  - c. Southern Pine Inspection Bureau (SPIB): Southern Pine.
  - d. West Coast Lumber Inspection Bureau (WCLIB): Douglas Fir.
  - e. Western Wood Products Association (WWPA): Douglas Fir and Ponderosa Pine.
3. MSR Lumber Producers Council (MSR) for machine stress rated lumber.
4. National Design Specifications for Wood Construction.
5. National Design Standard for Metal Plate Connected Wood Truss Construction (TPI).

#### 1.3 ACTION SUBMITTALS

- A. Product Data: For each type of process and factory-engineered product. Indicate component materials, dimensions, profiles, and construction and installation details.
1. Include information for specialty accessory products specified for this Project.
  2. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
  3. For products receiving waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to truss fabricator.
  4. Include copies of warranties from chemical treatment manufacturers for each type of treatment.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other work.
1. Sizes, stress grades, and species of lumber.
  2. Anchor-bolt layout.
  3. Structural Framing Drawings: Show complete fabrication of primary and secondary framing. Include provisions for openings and the following information:
    - a. Slope or depth, span, and spacing of truss.

- b. Heel bearing height.
  - c. Design loading to include:
    - 1) Top chord live load.
    - 2) Top chord dead load.
    - 3) Bottom chord dead load.
    - 4) Concentrated loads and their points.
  - d. Adjustments to lumber and plate design values for conditions of use.
  - e. Plate type, thickness of gauge, and size.
  - f. Lumber size, species and grade for each member.
4. Metal Roof and Wall Panel Layout Drawings: Show layouts of metal panels including methods of support. Include details of edge conditions, joints, panel profiles, corners, anchorages, trim, flashings, closures, and special details. Indicate the following components:
- a. Roof mounted items.
  - b. Wall mounted items.
5. Structural Engineer Certification: Letter signed by a Professional/Structural Engineer, registered to practice in the jurisdiction of the project, verifying compliance with Snow Design Requirements. Letter shall reference specific dead loads, live loads, wind loads, tributary area load reductions (if applicable) collateral loads, seismic loads, end use categories, and governing building code including edition and load applications. Submit Shop Drawings that have been engineered and certified by professional engineer licensed in the State in which Project is located. Include seal and signature of professional engineer on Shop Drawings.
- C. Design Data: Truss engineering calculations for loading and stresses, bearing seal and signature of professional engineer licensed in the State in which Project is located. Include the following calculations:
- 1. Minimum design shall meet design standards of latest edition of International Building Code unless other, more stringent requirements are in force in Project location.
  - 2. Bending moments and axial forces for each member.
  - 3. Basic plate design values.
  - 4. Design analysis for each joint indicating that proper plates have been used.
  - 5. Provide design calculations for exterior walls, canopies, soffit systems, and lateral bracing walls. Design wind loads and lateral bracing loads are indicated on structural Drawings.
  - 6. Submit design calculations that have been engineered and certified by professional engineer licensed in the State in which Project is located. Include seal and signature of professional engineer on calculations
- D. Samples for Initial Selection: For units with factory-applied color finish, color chart of manufacturer's standard colors. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- 1.4 INFORMATIONAL SUBMITTALS
- A. Evaluation Reports: For the following, from ICC-ES:
- 1. Wood-preservative-treated wood.
  - 2. Engineered wood products.

- B. Quality Control Submittals:
    - 1. Test Reports: Certified test reports showing compliance with specified performance characteristics.
    - 2. Certification: Manufacturer's certification that Products furnished meet specified design and performance criteria.
  - C. Submit written proof of third party inspection program in force for truss manufacturer used on Project.
  - D. Certifications: Certify that specified roof and wind load requirements are met.
- 1.5 QUALITY ASSURANCE
- Manufacturer Qualifications: Manufacturer with minimum 5 years' documented experience that participates and that involves third-party inspection by an independent testing and inspecting agency acceptable to Architect and authorities having jurisdiction.
- 1. Manufacturer's responsibilities include providing professional engineering services needed to assume engineering responsibility.
  - 2. Manufacturer shall have engineering department.
  - 3. Engineering Responsibility: Preparation of Shop Drawings and comprehensive engineering analysis by qualified professional engineer.
- B. Erector Qualifications: An experienced erector who specializes in erecting and installing work similar in material, design, and extent to that indicated for this Project and who is acceptable to manufacturer.
  - C. Source Limitations: Obtain engineered post frame building components, including primary and secondary framing and metal panel assemblies, from single source from single manufacturer.
- 1.6 DELIVERY, STORAGE, AND HANDLING
- A. Handle and store materials per manufacturer's requirements.
  - B. Handle and store trusses to comply with recommendations in TPI BCSI, "Building Component Safety Information: Guide to Good Practice for Handling, Installing, Restraining, & Bracing Metal Plate Connected Wood Trusses."
    - 1. Store trusses flat, off of ground, and adequately supported to prevent lateral bending.
    - 2. Protect trusses from weather by covering with waterproof sheeting, securely anchored.
    - 3. Provide for air circulation around stacks and under coverings.
    - 4. Store trusses to avoid contact with other materials that could create staining or discoloration.
  - C. Inspect trusses upon deliver to Project site and notify manufacturer immediately if members have damage from handling or show discoloration, corrosion, or other evidence of deterioration. Discard and replace trusses that are damaged or defective.
- 1.7 WARRANTY
- A. Manufacturer's Special Warranty – Treated Material: Manufacturer agrees to repair, restore, or replace columns that fail in materials within specified warranty period.
    - 1. Warranty Period: 50 years from date of Substantial Completion.
    - 2. Manufacturer shall repair treated structural columns that fail because of insect damage or because of decay that occurs under normal conditions and proper use. If manufacturer is



not able to repair structural posts to satisfaction of Architect and Owner, manufacturer shall replace damaged treated structural columns.

- B. Special Warranty on Metal Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
  - 1. Roofing and Siding Finish, steel panel: Warranted by the original materials manufacturer for 40 years from the date of shipment. Refer to Warranty document for complete details.
  - 2. Finish Warranty Period: From date of Substantial Completion, 40 years on chalk; 30 years on color change:
  - 3. Individual Building Products: Manufacturer's standard warranty.
  - 4. Installation Warranty: One year general installation warranty, five years against roof leaks.
  - 5. Manufacturer shall repair painted steel roofing or siding panels if the paint peels, cracks, checks, flakes or blisters to an extent that is apparent by ordinary outdoor visual observation when exposed to normal weather and atmospheric conditions. If manufacturer is not able to repair steel panels to satisfaction of Architect and Owner, manufacturer shall replace damaged steel panels.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Basis of Design Product: Subject to compliance with requirements. Hanson Pole Buildings, LLC Company or comparable product by one of the following:
  - 1. Timbertech Eng. Inc.
  - 2. Energy Panel Structures
  - 3. Lester Building Systems
- B. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.

### 2.2 PERFORMANCE CRITERIA

- A. Design Requirements:
  - 1. Design wood members per formulas published in National Design Specifications (NDS) for Wood Construction.
  - 2. Design light meta-toothed connector plates and joint design in compliance with Truss Plate Institute's (TPI) National Design Standard for Metal Plate Connected Wood Truss Construction.
  - 3. Include unbalanced roof loads required by ASCE-7, current edition.

### 2.3 WOOD-PRESERVATIVE-TREATED LUMBER

- A. Preservative Treatment by Pressure Process: AWP A U1; Use Category UC3b for exterior construction not in contact with ground, and Use Category UC4a for items in contact with ground.
  - 1. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing

- no arsenic or chromium. Do not use inorganic boron (SBX) for sill plates.
  - 2. For exposed items indicated to receive stained or natural finish, use chemical formulations that do not require incising, contain colorants, bleed through, or otherwise adversely affect finishes.
  - B. Maximum moisture content of 19 percent or per appropriate grading rules. Do not use material that is warped or does not comply with requirements for untreated material.
  - C. Mark lumber with treatment quality mark of inspection agency approved by ALSC Board of Review.
  - D. Application: Treat items indicated on Drawings, and the following:
    - 1. Laminated columns.
    - 2. Baseboards.
    - 3. Hold down blocks.
- 2.4 STRUCTURAL
- A. Footings:
    - 1. Embedded Column Footings:
      - a. Precast 8" by 30" inch diameter 4000 psi concrete footing pad.
  - B. Primary Framing:
    - 1. Columns:
      - a. Treated Lumber Section:
        - 1) Lumber: No. 1 or Better Southern Yellow Pine, pressure treated with Chromated Copper Arsenate, Type III, to a retention of 0.6 pcf (9.6 kg/m<sup>3</sup>) and kiln dried after treating to 19 percent maximum moisture content.
        - 2) Fabrication: Laminate individual pieces using ring shank feed nails per manufacturer's engineered nailing pattern. Fasteners shall have ASTM A153 galvanizing.
      - b. Untreated Lumber Section:
        - 1) Lumber: Lumber: No. 1 or Better Southern Yellow Pine or Douglas Fir-Larch or other equivalent NDS approved species/grade kiln dried to 19 percent maximum moisture content.
        - 2) Fabrication: Laminate individual pieces using ring shank feed nails per manufacturer's engineered nailing pattern.
        - 3) Grade and size shall be selected to support imposed loads within deflection limits.
      - c. End Joint Connection of Treated and Untreated Sections: Factory fabricated finger joint.
      - d. Configuration:
        - 1) Sidewall and Endwall Columns: 3 ply or 4 ply combining 2x4, 2x6, 2x8, or 2x10 (50x150, 50x200, 50x250 mm) dimension lumber as required by "Structural Design" requirements specified herein.
        - 2) Corner Columns: 2 ply or 3 ply 2x4, 2x6 or 2x8 (50x150, 50x200 mm) dimension lumber as required by "Structural Design" requirements specified herein.
      - e. Embedded Column Anchorage:
        - 1) Anchor blocks factory adhered to column base.
        - 2) Concrete collar pinned to column base with steel reinforcing rods.

2. Trusses: Comply with "Structural Design" and "Quality Assurance" requirements as specified herein.
    - a. Comply with TPI "Design Specification for Metal Plate Connected Wood Trusses" and "Quality Standard for Metal Plate Connected Wood Trusses."
    - b. Manufacturer shall have a third party inspection program to verify compliance with requirements of TPI.
    - c. Stamp trusses with inspection agency identification
  - C. Secondary Framing:
    1. Purlins and Girts:
      - a. Lumber: No. 2 or Better dimension lumber kiln dried to 19 percent maximum moisture content.
      - b. Configuration: 2x4 or 2x6 or 2x8 (50x100, 50x150, 50x200 mm) as required by "Structural Design" requirements specified herein.
        - 1) Girts: Size, grade and spacing to meet wind and deflection criterion.
          - Face mounted to exterior side of column.
        - 2) Purlins: Precision cut to fit between trusses flush with top of top chord. Provide 20 gauge galvanized purlin saddle hangers.
      - c. Spacing: As required by "Structural Design" requirements specified herein.
    2. Splashplank:
      - a. Lumber: No. 2 or Better Southern Yellow Pine, preservative treated, to a retention of 14 pcf (2.2 kg/m<sup>3</sup>) of micronized copper azole.
      - b. Configuration: 2x6 or 2x8 (50x 150 or 50x200 mm) dimension lumber. Milled S4S for single row and milled T&G for multiple rows.
    3. Bracing, Wall and Lateral Truss Type (where required by "Structural Design"):
      - a. Lumber: No. 2 or Better dimension lumber.
      - b. Configuration:
        - D. 2x4 or 2x6 (50x100, 50x150 mm) as required by "Structural Design" requirements specified herein.
        - Overhang Framing: Fabricated rafter frames.
          1. Provide factory beveled fascia boards, 2 inch by 6 inch Spruce-pine-fir, No. 2.
  - E. Wind Bracing:
    1. 2 inch by 6 inch, No. 2 or better Spruce-pine-fir from end wall column to first truss back.
    2. 2 inch by 4 inch diagonal in roofline bracing as required by design.
  - F. Framing Around Openings:
    1. Provide 2 inch by 6 inch/2 inch by 4 inch No. 2 around door, window, and overhead sectional door openings.
  - G. Headers: Provide built-up No. 1 or better Southern yellow pine headers as required to meet loading designs.
  - H. Incidental Framing: No.2 or better 2 inch by 4 inch.
- 2.5 MATERIALS – PREFINISHED MATERIALS
- A. General: Factory-formed metal panels, 29 gauge roll-formed in manufacturer's facility, designed to be field assembled by lapping side edges of adjacent panels and mechanically attaching panels to supports using exposed fasteners in side laps. Include accessories required for weathertight

installation.

- B. Metal Panels: Exposed-fastener metal roof and wall panels, formed with raised ribs and recesses. Wall panels to have factory applied anti-graffiti coating.
1. Configuration:
    - a. Roll-formed; 36 inch (915 mm) coverage width. Provide panels covering up to 35 foot (10.5 m) lengths in single pieces.
    - b. Four major corrugations, 7/8 inch (22 mm) high, spaced 12 inches (305 mm) on center with 3 minor corrugations, 1/8 inch (3 mm) high, spaced 3 inches (76 mm) on center between each major corrugation.
    - c. Form one outboard corrugation as overlapping corrugation.
    - d. Form opposite outboard corrugation as underneath corrugation with full return leg to support side lap and a continuous anti-siphon drain channel.
    - e. Factory cut to required length.
    - f. Factory miter cut gable ends.
    - g. Material and Finish: As shown on Erection Drawings, except as specified herein.
    - h. Fasteners: Color coated No. 10 piercing screws with 1/4 inch (6 mm) hex head pre-assembled to 1/2 inch (13 mm) O.D. dome seal or bond seal galvanized steel and EPDM washers.
- C. Wainscoting: 36 inch high accent feature from at base of building, consisting of the following material:  
Steel panel matching specified wall panels; color to be selected by architect.
- D. Metal Trim: Match material. Color selected by architect manufacturer Full Range. Provide trim for corners, ridge lines, rakes, eaves, and panel bases.
1. Lengths: Minimum 10 feet .
  2. Trim, overhang facias, track covers, and slide door jambs available in building panel covers.
  3. Overhead Sectional Door and Slide Door Jamb Trim: Fabricated from 1 piece up to 10 feet in length.
- E. Soffits: Aluminum or steel, vented as required. Color selected by architect manufacturer Full Range.
- F. Ridge Vent: Manufacturer's standard pre-engineered ridge cap or ridgelite, flashings, and eave and gable trim. Field-fabricate minor flashings as indicated on approved Shop Drawings.
1. Provide manufacturer's vent as indicated on Drawings
- G. Eave Overhang Fascia Flashing:
1. Size: 24 inches nominal.
  2. Fascia Flashing Color: Color selected by architect manufacturer Full Range.
  3. Vented Soffit Color: Color selected by architect manufacturer Full Range.
- H. Gutters and Downspouts: Provide manufacturer's standard gutters and downspouts as shown on Drawings.
- I. Material and Finish: 29 gauge steel, coated both sides
1. ~~Exterior Surface Finish: Bonderize and provide baked-on primer and Valspar Weather XL (silicone modified polyester) finish coat, 0.7 - 0.8 mil minimum dry film thickness.~~
  2. Exterior Surface Finish: Bonderize and provide baked-on primer and factory applied baked-on 70 percent Kynar 500 or Hylar 5000 PVDF fluoropolymer resin based paint coating manufactured by Valspar, with a minimum dry film thickness of 0.7 - 0.8 mil..

## 2.6 RELATED MATERIALS

- A. Insulation: Where indicated on Drawings, provide one or more of the following insulation types.
- B. Polypropylene-Scrim-Kraft-Faced, Glass-Fiber Blanket Insulation: ASTM C665, Type II, Class A; Category 1, with 4 mil white, high density polyethylene facing.
  - 1. Acceptable Product: Tuff-Roll Insulation.
  - 2. Surface Burning Characteristics per ASTM E84:
    - a. Flame Spread: 25.
    - b. Smoke Developed: <50.
  - 3. Thermal Resistance and Thickness: as indicated in drawings.
  - 4. Physical Properties:
    - a. Water Vapor Transmission, ASTM E96: 0.015 perms.
    - b. Light Reflectivity, ASTM C 523, Illuminant D-6500: 90 percent.
- C. Walk Doors: Where indicated on Drawings, provide the following type of doors:
  - 1. Steel or extruded aluminum frame and sash with electrostatically coated enamel paint finish and window manufacturer's standard single pane glass or insulated glass unit, and locking options based on Project requirements.
- D. Windows: Where indicated on Drawings, provide the following type of windows:
  - 1. Thermally insulated extruded aluminum frame and sash with electrostatically coated enamel paint finish and window manufacturer's standard insulated glass units.
- E. Closure Strips: Closed cell, 2 psf density polyethylene foam, premolded to match configuration of panels.

## 2.7 FASTENERS

- A. General: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture.
  - 1. Where trusses are exposed to weather, in ground contact, made from pressure-preservative treated wood, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A153.
  - 2. Exposed Fastener Heads: Match color of steel panel.
  - 3. Where steel panels or trim is attached to preservative-treated lumber, provide fasteners of unpainted Type 304 stainless steel.
- B. Nails, Brads, and Staples: ASTM F1667.
  - 1. Framing Lumber: 10d, 16d and 60d ring shank nails.
  - 2. Machine Bolts: Minimum grade 1, A307.
  - 3. Metal Panels: Minimum 1-1/2 inch No. 10 screw fasteners with EPDM sealing washers bearing on weather side of metal panels.
    - a. Match color of metal panels.

## 2.8 FABRICATION

- A. Shop-fabricate wood trusses in TPI inspected plant.
- B. Cut truss members to accurate lengths, angles, and sizes to produce close-fitting joints.
- C. Fabricate metal connector plates to sizes, configurations, thicknesses, and anchorage details required to withstand design loads for types of joint designs indicated.

- D. Assemble truss members in design configuration indicated; use jigs or other means to ensure uniformity and accuracy of assembly with joints closely fitted to comply with tolerances in TPI 1. Position members to produce design camber indicated.  
Fabricate wood trusses within manufacturing tolerances in TPI 1.
- E. Connect truss members by metal connector plates located and securely embedded simultaneously in both sides of wood members by air or hydraulic press.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with erector present, for compliance with requirements for installation tolerances and other conditions affecting performance of work.
- B. Before erection proceeds, survey elevations and locations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedment to receive structural framing, with erector present, for compliance with requirements and metal building system manufacturer's tolerances.
  - 1. Engage land surveyor to perform surveying.  
Proceed with erection only after unsatisfactory conditions have been corrected

#### 3.2 PREPARATION

- A. Provide temporary shores, guys, braces, and other supports during erection to keep framing secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent framing, connections, and bracing are in place unless indicated otherwise.

#### ERECTION OF FRAMING

- A. General: Do not use materials that are unsound, warped, improperly finished, or with defective surfaces, sizes, or patterns.
  - 1. Comply with frame manufacturer's approved Shop Drawings for details and building erection.
  - 2. Comply with NFBA document "Accepted Practices for Post-frame Construction Framing Tolerances."
- B. Columns:
  - 1. Auger hole to depth of diameter indicated on Drawings.
  - 2. Pour ready mix concrete pad in bottom of each hole per Drawings.
  - 3. Install hold down blocks at bottom of each column per approved Shop Drawings.
  - 4. Accurately position column in hole.
  - 5. Backfill with dry soil compacted in 8 inch lifts.
- C. Baseboards: as noted in manufacturers drawings.
- D. Wall Girts: Install at centers indicated on Drawings.
  - 1. If required, install overhang framing at top of wall girts.
- E. Trusses:
  - 1. Set trusses in place in center of column using lifting methods as approved by manufacturer.

- 2. When trusses are properly positioned, install 1/2 inch by 5-1/2 inch machine bolt and manufacturer recommended 20d ring shank nails through 2 of column laminates and truss heel.
  - 3. Brace trusses per WTCA guidelines and BCSI Manual
  - F. Purlins: Install purlins with fasteners and at spacings per approved Shop Drawings.
  - G. Truss Ties: Install truss ties at locations recommended by structure manufacture and per approved Shop Drawings
    - 1. Run truss ties from end wall to end wall.
  - H. Incidental Framing: Install 2 inch by 4 inch or 2 inch by 6 inch blocking as required per structure manufacturers recommendations.
- 3.3 METAL PANEL INSTALLATION, GENERAL
- A. Install metal panels per manufacturer's established construction procedures.
  - B. Install metal panels and components plumb, square, straight, and true to lines, and to assure freedom from rattles.
  - C. Take care when cutting prefinished materials to ensure cuttings do not remain on finished surface.
  - D. Properly install fasteners taking care to not under- or overdrive.

**END OF SECTION**













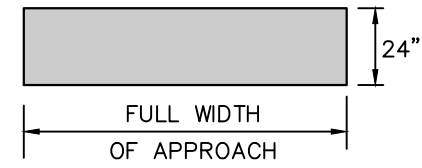
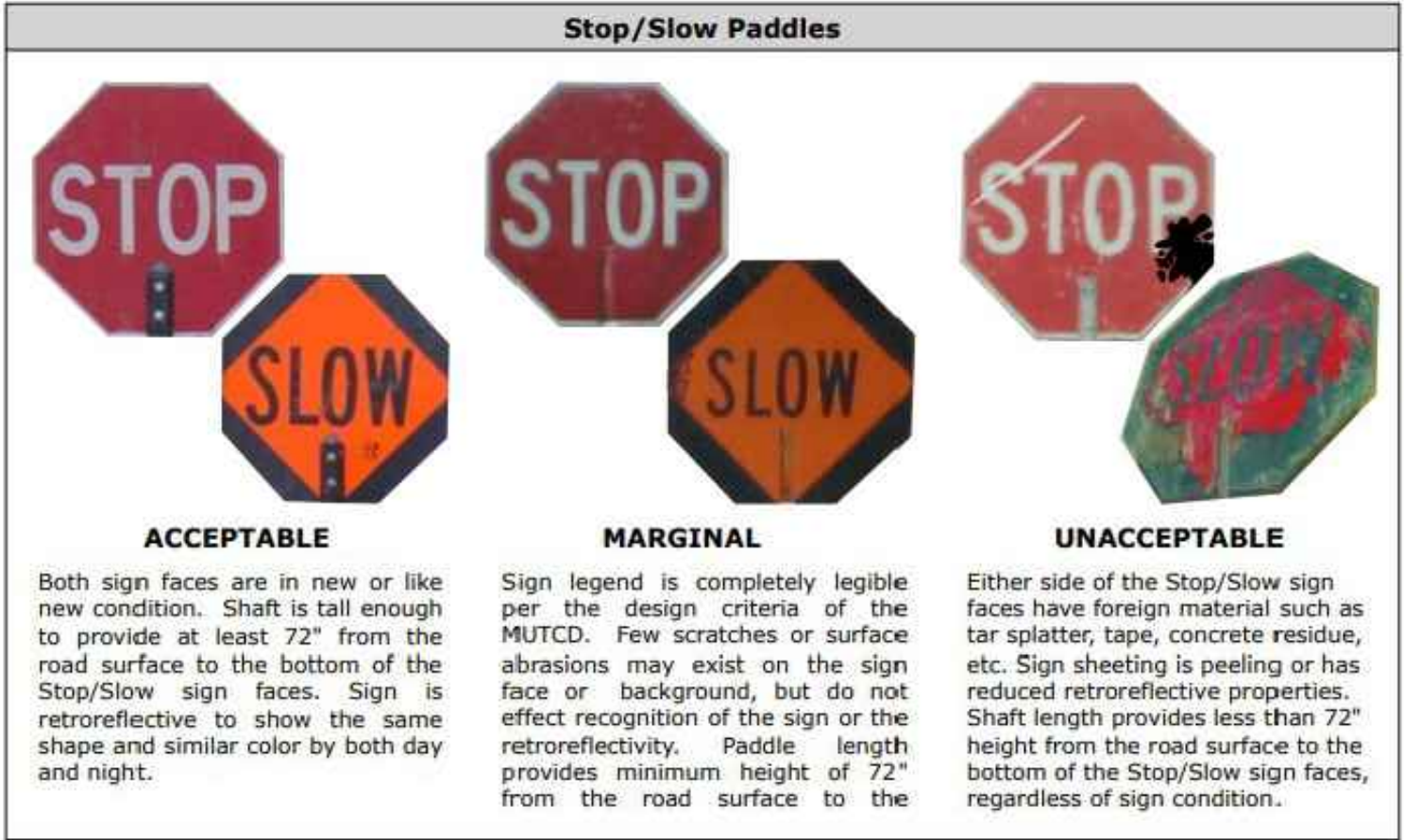


**PATA 107**

---

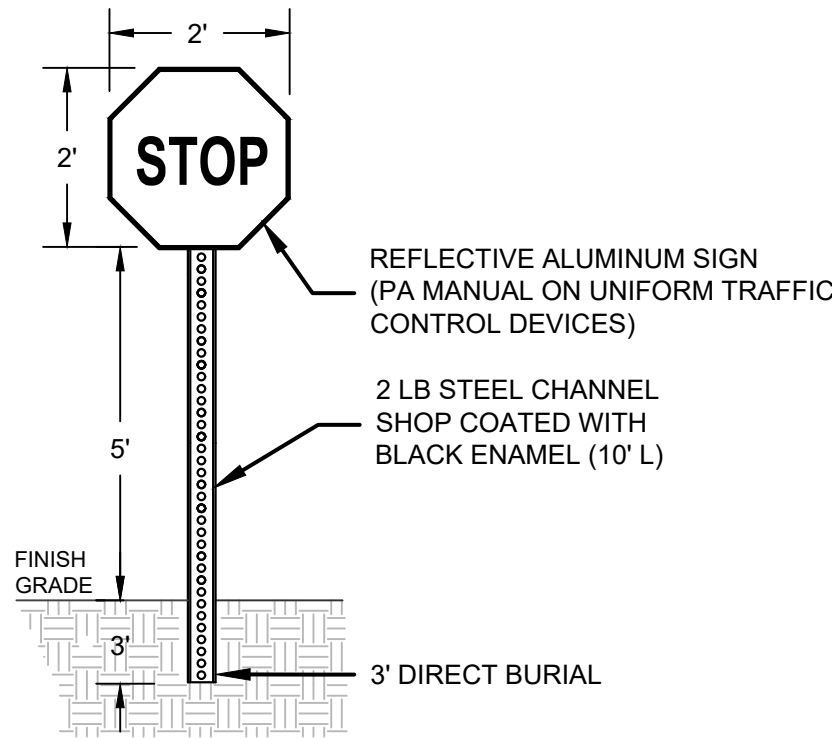
1. Flaggers shall be clearly visible to traffic for a minimum distance of E.
2. For operations of 15 minutes or less:
  - a) The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.
  - b) All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not proceed against normal traffic flow.
3. When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Taper Lengths and Minimum Number Of Channelizing Devices		
Speed	50' Per Lane Taper	
S (MPH)	Length (Feet)	Minimum Number Of Devices
25	50	6
30	50	6
35	50	6
40	50	6
45	50	6
50	50	6
55	50	6

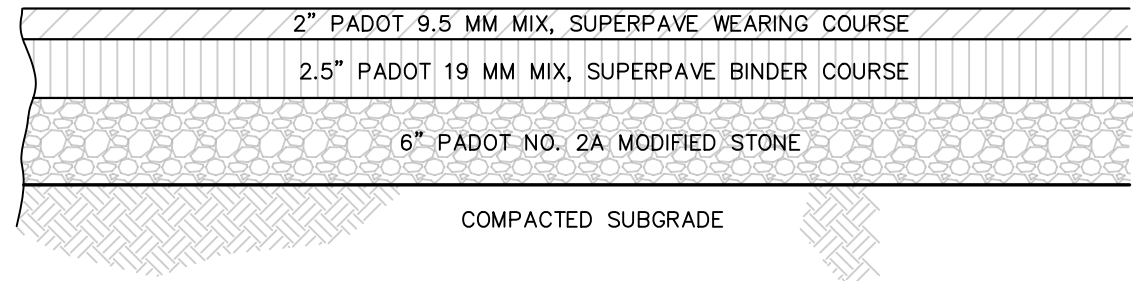


## PAVEMENT LEGENDS

NOTE: ALL LEGENDS SHALL BE WHITE



STOP SIGN DETAIL  
N.T.S.



### STANDARD BITUMINOUS PAVEMENT DETAIL

1. GEOTEXTILE FABRIC WITH R-3 RIRRAP STONE SHALL BE INSTALLED OVER COMPACTED SUBGRADE WHEN AVAILABLE STOCK EXISTS.
2. PAVEMENT SHOULD BE INSTALLED LATE IN CONSTRUCTION WHEN MOST HEAVY CONSTRUCTION TRAFFIC WILL NO LONGER BE ON-SITE. PRIOR TO PAVING, THE SITE SHOULD BE CURED FOR 30 DAYS. REMEDIATION NOTES, THE BASE LEVEL AND THICKENED AS REQUIRED, AND THE SITE PAVED AT THE END OF CONSTRUCTION.
3. FOR PAVEMENT WHEN UNCURED, EXTEND SUBBASE AND/OR BASE COURSE EIGHT INCHES BEYOND THE END OF THE BINDER AND SURFACE COURSES.
4. AGGREGATE BASE SHOULD BE COMPACTED TO 100% OF THE MATERIAL'S MAXIMUM DRY DENSITY AS PER MODIFIED PROCTOR (ASTM D-1557).
5. PAVEMENT MUST BE PAVED TO THE PRESCRIBED SUBGRADE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR (ASTM D-698) DENSITY IN THE UPPER 2" BELOW SUBGRADE AND TO AT LEAST 95% OF THE STANDARD PROCTOR (ASTM D-698) MAXIMUM DRY DENSITY ELSEWHERE.
6. ALL JOINTS AND CONSTRUCTION JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3405 OR D1190. ALTERNATIVELY, LOW MODULUS MATERIALS SUCH AS SILICONE, HOT OR COLD-POURED RUBBERIZED ASPHALT OR NITRILE RUBBER MEETING THE MANUFACTURER'S SPECIFICATIONS MAY BE USED.
7. THE PAVEMENT SHOULD BE OPEN TO THE NEW PAVEMENT FOR AT LEAST 3-DAYS; SIMILARLY NO TRUCK TRAFFIC FOR 7-DAYS.

## BITUMINOUS PAVEMENT DETAIL

[illegible]



UTILITY HIGHWAY OCCUPANCY PERMIT PLANS  
FOR  
UPPER POTTSGROVE MUNICIPAL COMPLEX 2  
UPPER POTTSGROVE TOWNSHIP - MONTGOMERY COUNTY - PENNSYLVANIA

GENERAL PERMIT NOTES:

1. THE EXISTING SPEED LIMIT ON S.R. 4040 IS 40 M.P.H.
2. THE RIGHT-OF-WAY IS FREE ACCESS.
3. ALL THE WORK IN PA STATE HIGHWAY RIGHT-OF-WAY IS TO BE PERFORMED CONSISTENT WITH THE FOLLOWING:

PENNDOT PUBLICATION 13M, DESIGN MANUAL PART 2 – HIGHWAY DESIGN  
PENNDOT PUBLICATION NO. 34, APPROVED AGGREGATE PRODUCERS (BULLETIN 14)  
PENNDOT PUBLICATION NO. 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15)  
PENNDOT PUBLICATION NO. 41, PRODUCERS OF BITUMINOUS MATERIAL (BULLETIN 41)  
PENNDOT PUBLICATION NO. 42, PRODUCERS OF READY-MIX CONCRETE (BULLETIN 42)  
PENNDOT PUBLICATION NO. 46, TRAFFIC ENGINEERING MANUAL  
PENNDOT PUBLICATION NO. 72M, STANDARDS FOR ROADWAY CONSTRUCTION  
PENNDOT PUBLICATION NO. 111, PAVEMENT MARKINGS AND SIGNAGE STANDARDS  
PENNDOT PUBLICATION NO. 212, OFFICIAL TRAFFIC CONTROL DEVICES  
PENNDOT PUBLICATION NO. 213, TEMPORARY TRAFFIC CONTROL GUIDELINES  
PENNDOT PUBLICATION NO. 408, SPECIFICATIONS

4. THE DRIVEWAY HAS BEEN DESIGNED (AND WILL BE CONSTRUCTED AND MAINTAINED) CONSISTENT WITH TITLE 67, CHAPTER 441 REGULATIONS.
5. PA STATE HIGHWAY RIGHT-OF-WAY MAY NOT BE USED FOR PARKING.
6. PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED STRUCTURES, FACILITIES, AND DRAINAGE.
7. PERMITTEE IS RESPONSIBLE FOR MAINTENANCE OF ALL AUTHORIZED SIGNS AND PAVEMENT MARKINGS.
8. THREE TO TEN WORKING DAYS PRIOR TO EXCAVATION BASED ON THE COMPLEXITY OF THE PROJECT, THE CONTRACTOR MUST CONTACT THE PA ONE CALL SYSTEM, INC.: PHONE 1-800-242-1776, SERIAL NO. 20243300770 FOR UPPER POTTSGROVE TOWNSHIP. ADDITIONAL INFORMATION IS AVAILABLE AT <http://www.pacall.org/PA811/Public/>.
9. THE CONTRACTOR IS REQUIRED TO NOTIFY THE DEPARTMENT AND SUBMIT AN ALLEGED VIOLATION REPORT (AVR) TO THE PA PUBLIC UTILITY COMMISSION THROUGH THE PA ONCE CALL SYSTEM, [WWW.PA1CALL.ORG](http://WWW.PA1CALL.ORG), WITHIN TEN (10) BUSINESS DAYS AFTER A UTILITY LINE IS STRUCK, DAMAGED, OR PREVIOUS DAMAGE IS DISCOVERED AS REQUIRED BY PENNSYLVANIA'S UNDERGROUND UTILITY LINE PROTECTION LAW ACT 50 (P.L. 852, NO 287 AMENDED OCT. 30, 2017.)
10. DRIVEWAY IS CLASSIFIED AS: LOW VOLUME (51–1500 ADT)

11. DISTANCE TO THE NEAREST INTERSECTION IS: RT 0.1E1 LT 0.1E1  
DISTANCE TO THE NEAREST TRAFFIC SIGNAL IS: S 5,280 FT (LEFT)  
DISTANCE TO THE NEAREST OPPOSITE DRIVEWAY IS: RT 90 FT, LT 1,027 FT  
DISTANCE TO THE NEAREST ADJACENT DRIVEWAY IS: RT 660 FT LT 751 FT
12. IF A TRAFFIC SIGNAL IS WITHIN 500 FEET OF THE SITE, CALL THE DISTRICT TRAFFIC ENGINEER AT LEAST 3 DAYS PRIOR TO THE START OF WORK.
13. THIS PERMIT MAY BE RESTRICTED ON WORKING HOURS AND TIMES FOR HOLIDAYS, WEEKENDS, AND SPECIAL OR UNFORESEEN EVENTS AND WILL REQUIRE APPROVAL FROM THE COUNTY OFFICE PRIOR TO WORKING DURING THESE PERIODS.
14. THE PERMITTEE'S CONTRACTOR SHALL SAWCUT AND REMOVE SHOULDER MATERIAL AS NECESSARY TO ENSURE THE PAVEMENT REPLACEMENT IS ADJACENT TO THE FULL-DEPTH PAVEMENT OF THE TRAVEL LANE.
15. FINAL APPROVAL OF THE PROPOSED SAWCUT LOCATION WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE AND WILL BE CONFIRMED AT THE PRE-CONSTRUCTION MEETING; IF THE SAWCUT MUST BE LOCATED WITHIN A TRAVEL LANE, IT WILL BE NECESSARY TO MILL AND OVERLAY THE TRAVEL LANE TO PREVENT A JOINT IN A WHEEL PATH.
16. THE PROPOSED PAVEMENT SECTION MUST BE AS INDICATED ON THE PLAN, OR MATCH THE EXISTING AS FOUND IN THE FIELD, WHICHEVER IS GREATER.
17. PRIOR TO AN OVERLAY, BITUMINOUS OR CONCRETE BASE REPAIR OR JOINT REPLACEMENT MAY BE REQUIRED; AIR/REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
18. ALL PAVEMENT MARKINGS WHICH ARE NO LONGER APPROPRIATE SHALL BE ERADICATED BY THE PERMITTEE. THE PERMITTEE SHALL PLACE ALL REQUIRED NEW PAVEMENT MARKINGS.
19. ALL PAVEMENT MARKINGS OTHER THAN LONGITUDINAL LINES TO BE HOT THERMOPLASTIC (PENNDOT PUBLICATION 111, TC-8600).
20. MATCH EXISTING PAVEMENT MARKINGS AT THE LIMITS OF WORK.
21. MATERIAL CERTIFICATION MUST BE PROVIDED, BY AN APPROVED MANUFACTURER LISTED IN THE DEPARTMENT'S PUBLICATION 35 (BULLETIN 15), FOR ALL MATERIALS AND STRUCTURES WITHIN PENNDOT RIGHT-OF-WAY.
22. THE PERMITTEE SHALL CONTACT THE COUNTY MAINTENANCE MANAGER AT THE TIME OF THE GUIDE RAIL REMOVAL; ALL EXISTING GUIDE RAIL TO BE REMOVED SHALL BE TRANSPORTED TO AND STORED AS PER THE DIRECTION FROM THE COUNTY MAINTENANCE MANAGER OR REPRESENTATIVE.
23. ALL THE PROPOSED PEDESTRIAN FACILITIES REFLECTED ON THESE PLANS, INCLUDING THOSE THAT ARE OUTSIDE OF PENNDOT LEGAL RIGHT-OF-WAY, SHALL BE CONSTRUCTED TO COMPLY WITH THE REQUIREMENTS OF THE U.S. ACCESS BOARD, PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES OF BUILDINGS (PROWAG) OF THE ACCESSIBILITY GUIDELINES OF BUILDINGS AND FACILITIES (ADAAG), PENNDOT DESIGN MANUAL PART 2, CHAPTER 6, AND PENNDOT STANDARDS FOR ROADWAY CONSTRUCTION (PENNDOT PUBLICATION 72M, RC-67M) PROVIDE GUIDANCE ON ADA ACCESSIBLE DESIGN FOR PEDESTRIAN FACILITIES AND CAN BE UTILIZED FOR REFERENCE.
24. CONSTRUCT ALL PROPOSED PEDESTRIAN FACILITIES ON THESE PLANS TO COMPLY WITH THE AMERICANS WITH DISABILITIES ACT, PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), AND THE 2010 ADA STANDARDS.
25. ALL SLOPE MEASUREMENTS WILL BE INSPECTED/VERIFIED WITH A 2-FOOT SMART LEVEL.
26. IT IS THE RESPONSIBILITY OF THE PERMITTEE TO REMOVE ANY DEBRIS AND FLUSH OUT ALL EXISTING AND NEW STORM DRAINAGE FACILITIES WITHIN THE PROJECT LIMITS AT THE COMPLETION OF THE CONSTRUCTION.
27. MODIFICATIONS TO EXISTING DRAINAGE STRUCTURES MAY RESULT IN THE NEED TO REPLACE THE STRUCTURE; REPLACEMENT WILL BE AT THE DISCRETION OF THE INSPECTOR-IN-CHARGE.
28. STRUCTURAL STEEL BICYCLE SAFE GRATES MUST BE PROVIDED FOR ALL INLETS WITHIN THE ROADWAY PAVEMENT OR THOSE THAT MAY RECEIVE BICYCLE TRAFFIC (PENNDOT PUBLICATION 72M, RC-45M).
29. THE RESPONSIBILITY FOR ENSURING THAT ALL UTILITY POLES WITHIN THE PROPOSED PAVING ARE RELOCATED OUTSIDE OF PAVED AREAS AND SHOULDERS SHALL BE THAT OF THE PERMITTEE. THE UTILITY POLES MUST BE RELOCATED BEFORE THE START OF ANY PAVING OPERATIONS.
30. THE PERMITTEE IS RESPONSIBLE FOR THE COORDINATION OF RELOCATING ANY CONFLICTING UTILITIES WHICH ARE A RESULT OF THESE IMPROVEMENTS.
31. ALL UTILITY RELOCATION PERMITS TAKE PRECEDENCE OVER THE UTILITY RELOCATION POSITIONS SHOWN ON THE HOP PLANS.
32. CLEAN ALL EXISTING DRAINAGE FACILITIES (INCLUDING BUT NOT LIMITED TO INLETS, MANHOLES, AND PIPES) WITHIN THE PROJECT LIMITS.
33. VERIFY EXISTING AND PROPOSED DRAINAGE INVERT AND IG ELEVATIONS PRIOR TO FINAL PLACEMENTS; ANY DISCREPANCIES BETWEEN THE PLAN INFORMATION AND ACTUAL FIELD MEASUREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR-IN-CHARGE IMMEDIATELY.

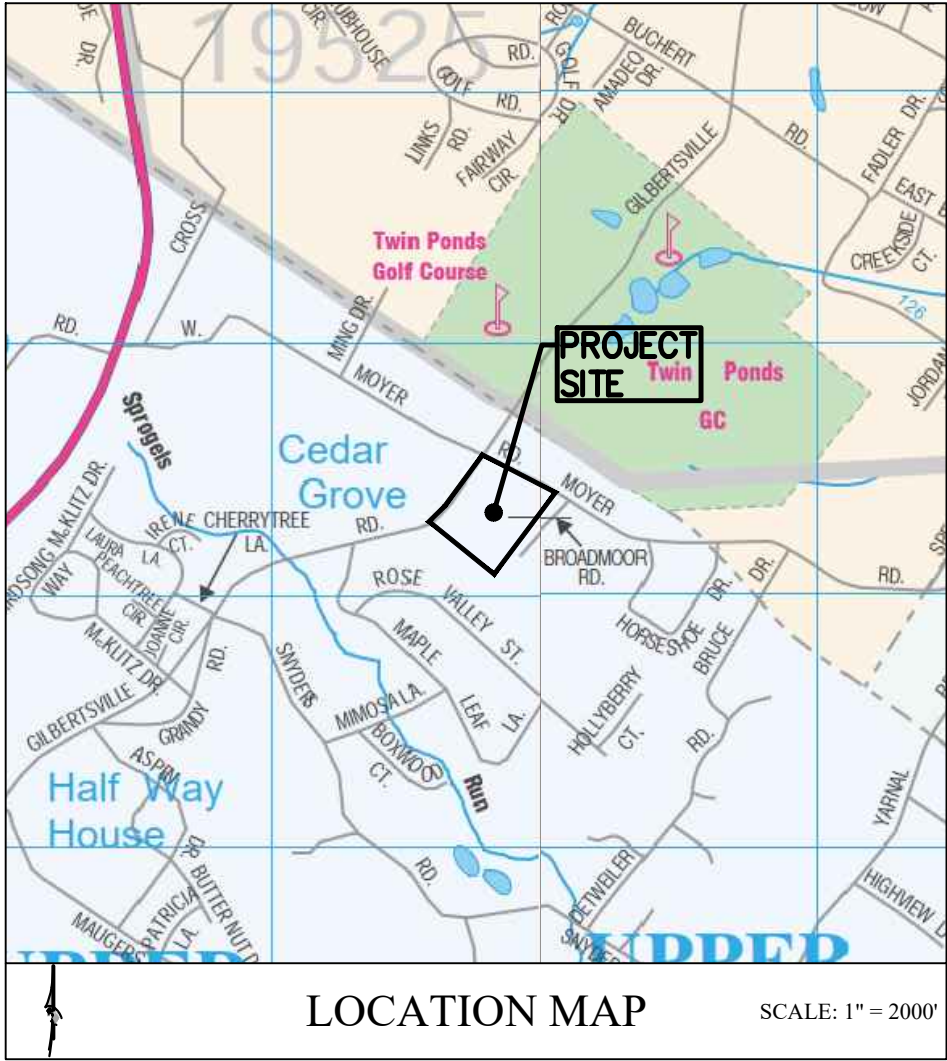
MAINTENANCE AND PROTECTION OF TRAFFIC (MPT) NOTES:

1. THIS WORK CONSISTS OF THE MAINTENANCE AND PROTECTION OF TRAFFIC AND THE PROTECTION OF THE PUBLIC WHEN APPROACHING AND DEPARTING THE CONSTRUCTION AREA AND WITHIN THE LIMITS OF CONSTRUCTION.
2. FURNISH, ERECT, PLACE, AND MAINTAIN TRAFFIC CONTROL SIGNS AND DEVICES. MAINTAIN TRAFFIC DURING HOURS OF CONSTRUCTION AND AT ALL OTHER TIMES CONSISTENT WITH THE METHODS INDICATED ON THESE DRAWINGS AND THE FOLLOWING:

PENNDOT PUBLICATION 35, APPROVED CONSTRUCTION MATERIALS (BULLETIN 15)  
PENNDOT PUBLICATION 46, TRAFFIC ENGINEERING MANUAL  
PENNDOT PUBLICATION 72M, STANDARDS FOR ROADWAY CONSTRUCTION  
PENNDOT PUBLICATION 111, PAVEMENT MARKINGS AND SIGNING STANDARDS  
PENNDOT PUBLICATION 212, OFFICIAL TRAFFIC CONTROL DEVICES  
PENNDOT PUBLICATION 213, TEMPORARY TRAFFIC CONTROL GUIDELINES  
PENNDOT PUBLICATION 236, HANDBOOK OF APPROVED SIGNS  
PENNDOT PUBLICATION 408, SPECIFICATIONS  
MUTCD, CURRENT EDITION

3. REMOVE THESE DEVICES IMMEDIATELY UPON COMPLETION OF THE WORK. PENNDOT WILL REMOVE ANY TRAFFIC CONTROL DEVICES ERECTED BY DEPARTMENT FORCES.
4. PERMITEE MUST ARRANGE FOR INSPECTION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO START OF WORK.
5. COVER OR REMOVE ALL CONFLICTING SIGNS AND ERADICATE ALL CONFLICTING PAVEMENT MARKINGS.
6. MOUNT ALL LONG-TERM ADVANCE WARNING SIGNS ON TYPE 111 BARRICADES UNLESS OTHERWISE NOTED OR INSTRUCTED BY THE DISTRICT OFFICE.
7. ALL SIGNS AND DEVICES TO BE MAINTAINED IN NEW OR LIKE NEW CONDITION.
8. DRIVEWAYS WILL BE KEPT ACCESSIBLE AT ALL TIMES. LOCATE ALL SIGNS SO THAT SIGHT DISTANCES WILL NOT BE OBSTRUCTED AT DRIVEWAYS AND LOCAL ROADS.
9. ALL CHANNELIZING DEVICES, BARRICADES, AND SIGNS SHALL HAVE 111 OR BETTER PRISMATIC RETROREFLECTIVE SHEETING. SHEETING SHALL BE APPROVED AND LISTED IN PENNDOT PUBLICATION 35 (BULLETIN 15).
10. PERMITTEE SHALL NOTIFY LOCAL EMERGENCY AUTHORITIES (E.G., POLICE, FIRE, MEDICAL), AFFECTED BUSINESSES, SCHOOL DISTRICT(S), THE GENERAL PUBLIC, THE DISTRICT PERMIT MANAGER AND THE DISTRICT APRAS COORDINATOR AT LEAST FOURTEEN (14) DAYS PRIOR TO ANY SIGNIFICANT TRAFFIC IMPACTS (E.G., LATERAL WIDTH RESTRICTIONS LESS THAN 16 FEET, DETOURS).

11. MAINTENANCE AND PROTECTION OF TRAFFIC DURING CONSTRUCTION SHALL BE IN ACCORDANCE WITH APPLICABLE PATA DRAWING(S) 110-E AND 110-O, IN THE CURRENT PENNDOT PUBLICATION 213, "TEMPORARY TRAFFIC CONTROL GUIDELINES".
12. DROPOFFS CREATED BY CONSTRUCTION OPERATIONS SHALL BE TREATED CONSISTENT WITH PUBLICATION 408, SECTION 901.3(J).
13. REMOVE ALL SHORT-TERM WORK ZONE TRAFFIC CONTROL SIGNING UPON COMPLETION OF THAT DAY'S WORK PERIOD.
14. RESTRICTING TRAFFIC FLOW WITHIN THE WORK AREA SHALL BE MINIMIZED TO PREVENT TRAFFIC CONGESTION AND UNSAFE TRAFFIC CONDITIONS.
15. NOTIFY THE LOCAL MUNICIPALITY WHERE SIGNALIZED INTERSECTIONS FALL WITHIN THE WORK ZONE. DO NOT FLAG A SIGNALIZED INTERSECTION WITHOUT THE MUNICIPALITY PLACING THE SIGNAL ON FLASH.
16. THE CONTRACTOR SHALL COMPLY WITH ACT 229 OF DECEMBER 2002 DURING CONSTRUCTION ACTIVITIES WITHIN PENNDOT'S RIGHT-OF-WAY.
17. UTILIZE PENNDOT PUBLICATION 213, WORK ZONE TRAFFIC CONTROL PATA 110-E AND 110-O FOR LONG-TERM TRAFFIC CONTROL OPERATIONS.
18. UTILIZE PENNDOT PUBLICATION 213, WORK ZONE TRAFFIC CONTROL PATA 110-E AND 110-O FOR SIGNAGE AND DEVICE SET UP.
19. MAINTAIN EXISTING PEDESTRIAN FACILITIES/ACCESS THROUGHOUT THE PROJECT DURATION. UTILIZE PENNDOT PUBLICATION 213, WORK ZONE TRAFFIC CONTROL PATA 110-E AND 110-O FOR SHORT-TERM DURATIONS AND PATA 110-E AND 110-O FOR LONG-TERM DURATIONS.
20. ALL FLAGGERS TO WEAR YELLOW/GREEN (ANSI II) APPAREL AND LEGGINGS. ANSI II APPAREL IS REQUIRED DURING HOURS OF DARKNESS AND FOR ALL HIGHWAY WORKERS.



CVE JOB # 22096  
EPS NO. 369220  
STATE ROUTE 4040 (GILBERTSVILLE ROAD)  
IN UPPER POTTSGROVE TOWNSHIP  
MONTGOMERY COUNTY  
FROM SEG 0090 OFFSET 1879 TO SEG 0090 OFFSET 1900 LENGTH 0 FT 0 MI

**CVE**  
**ChesterValley**  
ENGINEERS, INC.  
112 Moores Road, Suite 200, Malvern, PA 19355  
610-644-4623 | 610-889-3143 Fax  
[www.chesterv.com](http://www.chesterv.com)  
ARCHITECT:  
ALLOY5 ARCHITECTURE  
530 WEST BROAD STREET  
BETHLEHEM, PA 18018  
610-419-4055

SITE ADDRESS:  
2290 GILBERTSVILLE RD,  
POTTSTOWN, PA 19464

OWNER:  
UPPER POTTSGROVE TOWNSHIP  
1409 FARMINGTON AVENUE,  
POTTSTOWN , PA, 19464  
PHONE - (610) 323-8675

HIGHWAY OCCUPANCY PERMIT PLANS  
FOR UPPER POTTSGROVE MUNICIPAL BUILDING  
CVE PROJECT #: 22096–2000







DISTRICT	COUNTY	TOWNSHIP	BOROUGH	ROUTE	SECTION	TOTAL SHEETS
6-0	MONTGOMERY	UPPER POTTSBORO		4040		7

LIST OF PUBLIC UTILITIES  
PA ONE CALL TICKET #20243300770

COMPANY: COMCAST  
ADDRESS: 1250 HADDONFIELD-BERLIN ROAD  
CHERRY HILL, NJ. 08034  
CONTACT: WYATT PARRISH  
EMAIL: wyatt.parrish@cable.comcast.com  
PHONE: 484-368-4391

COMPANY: AQUA PENNSYLVANIA  
ADDRESS: 752 LANCASTER AVENUE  
BRYN MAWR, PA. 19010  
CONTACT: THOMAS WADDY  
EMAIL: twaddy@aquapenn.com  
PHONE: 610-52-1400 EXT. 52105

COMPANY: PECO AN EXELON COMPANY C/O USIC  
ADDRESS: 450 S HENDERSON ROAD SUITE B  
KING OF PRUSSIA, PA. 19406  
CONTACT: NIKKIA SIMPKINS  
EMAIL: nikkiasimpkins@usicllc.com  
PHONE: 484-561-5720

COMPANY: FIRST ENERGY CORPORATION  
ADDRESS: 21 S MAIN STREET  
ARKON, OH. 44308  
CONTACT: MELLYSSA ADAMS  
EMAIL: madams@firstenergycorp.com  
PHONE: 330-604-4073

COMPANY: UGI UTILITIES INC  
ADDRESS: 225 WORGANTOWN ROAD  
READING, PA. 19611  
CONTACT: KURT ZIELASKOWSKI  
EMAIL: kzielaskowski@ugi.com  
PHONE: 610-736-5571

COMPANY: UPPER POTTSBORO TOWNSHIP  
ADDRESS: 1409 FARMINGTON AVENUE  
POTTSBORO, PA. 19464  
CONTACT: KEVIN SNYDER  
EMAIL: publicworks@pottpa.org  
PHONE: 610-326-9938

PROPOSED SITE FEATURES

- PROPOSED STANDARD ASPHALT PAVING
- PROPOSED STANDARD BITUMINOUS PAVING (ALT. ITEM)
- PROPOSED HEAVY DUTY BITUMINOUS PAVING (ALT. ITEM)
- FUTURE STANDARD BITUMINOUS PAVING (N.I.C.)
- PROPOSED CONCRETE PAVING
- PROPOSED BUILDING
- PROPOSED PARKING OVERHANG
- PROPOSED PATIO
- PROPOSED PAVEMENT MARKING
- PROPOSED FENCE/GATE
- PROPOSED SPARE CONDUIT
- PROPOSED DRIVE PAVEMENT MARKING
- PROPOSED DUMPSTER
- PROPOSED SIGN
- PROPOSED WHEEL STOP
- PROPOSED HANDICAP MARKING
- PROPOSED BOLLARD
- PROPOSED FLAG POLE
- PARKING STALL QUANTITY
- FUTURE E.V. CHARGING STATION
- PROPOSED POLICE PARKING ACCESS KEY PAD

PROPOSED UTILITY FEATURES

- PROPOSED WATER LINE
- PROPOSED SANITARY LINE
- PROPOSED ELECTRIC LINE
- PROPOSED DATA LINE
- PROPOSED GAS LINE
- PROPOSED XFMR VAULT
- PROPOSED GENERATOR
- PROPOSED PROPANE TANK

HOP LEGEND

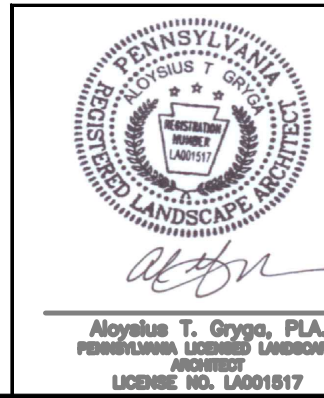
- ROAD CENTERLINE
- AREA OF WORK
- ASPHALT REMOVAL/ UTILITY TRENCHING AREA

CONSTRUCTION SEQUENCE

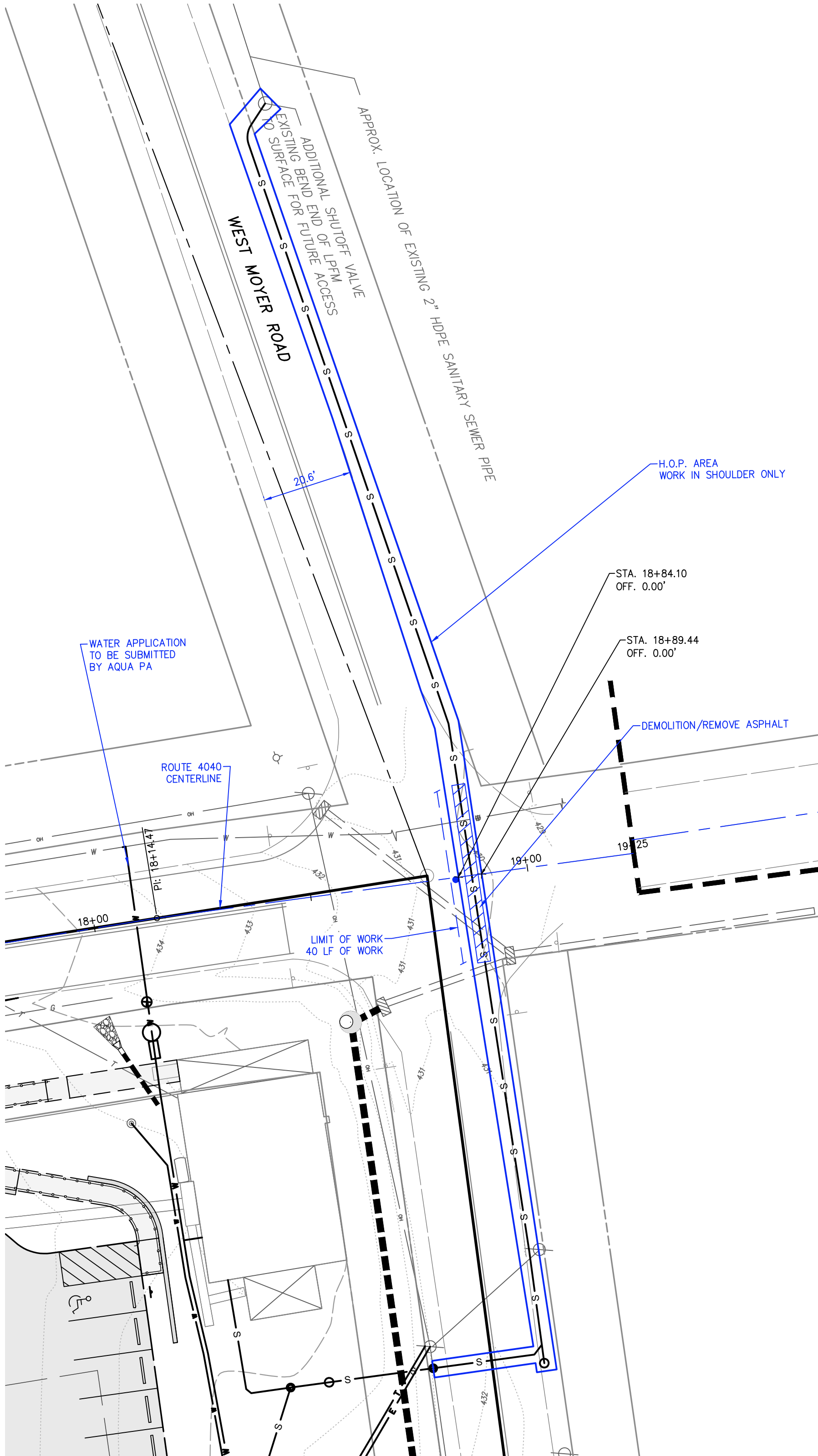
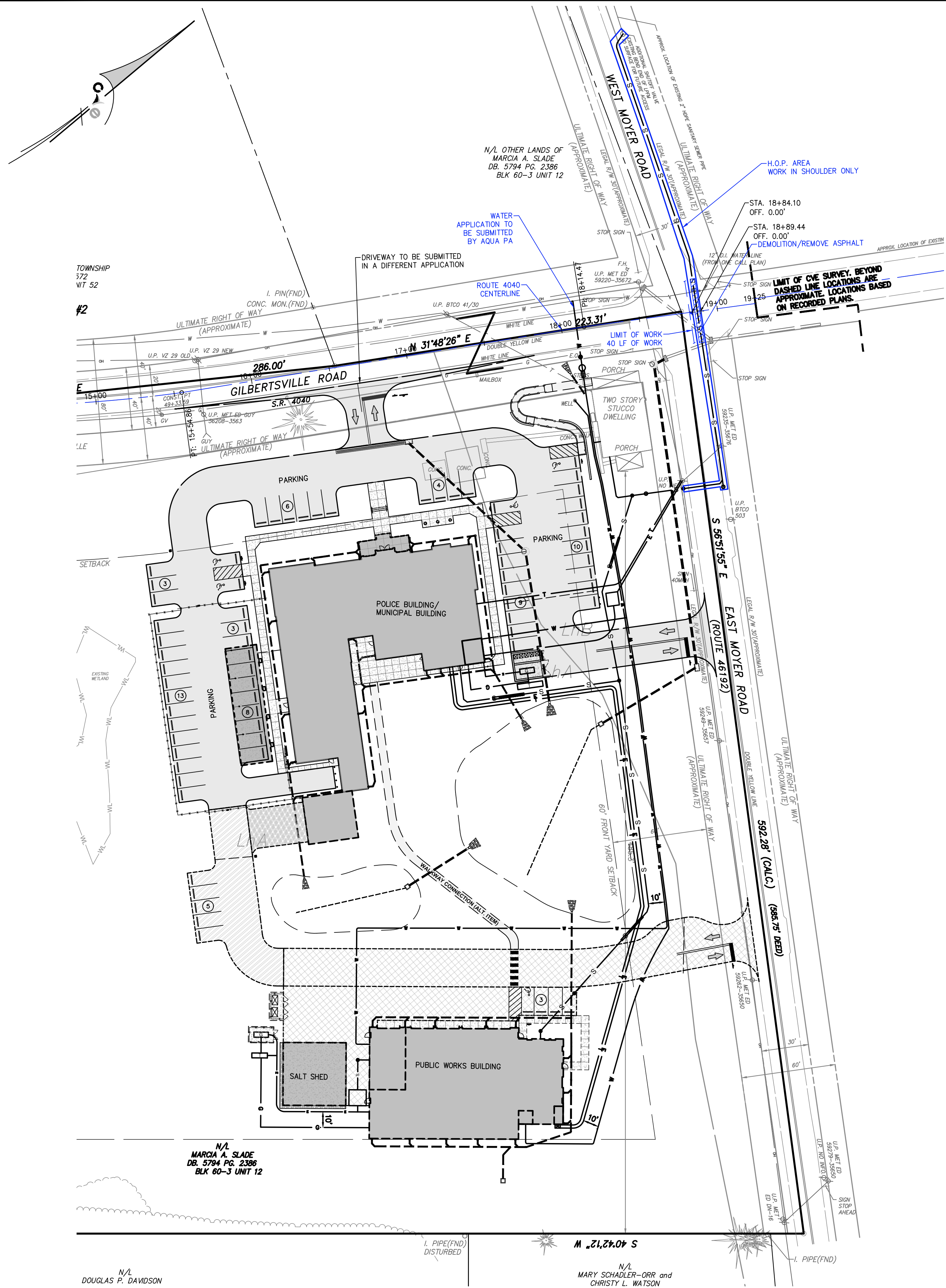
- INSTALL TEMPORARY TRAFFIC CONTROL DEVICES PER PENNDOT PUBLICATION 213, TITLE 67, CHAPTER 212, SEPARATING THE WORK ZONE FROM TRAFFIC ON GILBERTSVILLE ROAD AND MOYER ROAD. MAINTAIN EXISTING LANE WIDTHS IN EACH DIRECTION. TRAFFIC CONTROL SHALL CONFORM TO PATA 110-E OR 110-O AS NEEDED.
- WHEN TRENCHING ACROSS THE INTERSECTION AT GILBERTSVILLE ROAD AND MOYER ROAD, COMPLETE ONE LANE AT A TIME AND KEEP ONE LANE OPEN FOR THRU TRAFFIC. UTILIZE FLAGGERS AND APPROPRIATE SIGNAGE FOR TRAFFIC CONTROL.
- ENSURE FLAGGERS HAVE CORRECT MATERIALS AND ATTIRE ACCORDING TO PENNDOT PUBLICATION 213.
- SAWCUT AND REMOVE PAVEMENT.
- INSTALL PROPOSED BEDDING MATERIALS AND UTILITIES.
- COMPLETE ANY PAVEMENT RESTORATION WORK AND REMOVE TRAFFIC CONTROL DEVICES.

SITE/UTILITY PLAN

NO.		DATE		REVISION	
HIGHWAY OCCUPANCY PERMIT PLANS FOR UPPER POTTSBORO MUNICIPAL COMPLEX 2 2209 GILBERTSVILLE ROAD UPPER POTTSBORO TWP - MONTGOMERY COUNTY - PENNSYLVANIA					
SCALE AS NOTED				DATE 04/11/2025	
DRAWN BY N.D.				CHECKED BY A.G.	
PROJECT NO. 22096				DRAWING	



SOILS LIST						
SYMBOL	DESCRIPTION	DEPTH TO SEASONALLY HIGH WATER TABLE	DEPTH TO BEDROCK	FREQUENCY OF FLOODING	HYDROLOGIC SOIL GROUP	HYDROLOGIC RATING
LHA	0% TO 3% SLOPES	6" - 36"	40"-60"	NONE	NONE	C/D
LHB	3% TO 8% SLOPES	6" - 36"	40"-60"	NONE	NONE	C/D



COPYRIGHT: CHESTER VALLEY ENGINEERS, INC., CIVIL ENGINEERS & SURVEYORS. ALL RIGHTS RESERVED. THIS PLAN IS THE PROPERTY OF CHESTER VALLEY ENGINEERS, INC. AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM CHESTER VALLEY ENGINEERS, INC.

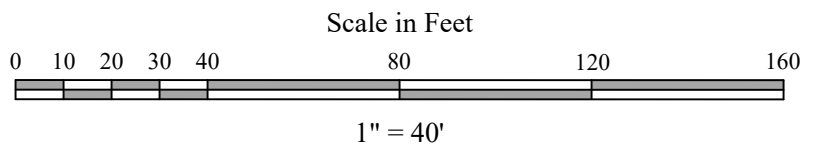
NOTE TO USER OF THESE PLANS: THE INFORMATION CONTAINED ON THIS PLAN MAY NOT BE USED FOR ANY OTHER PROJECT. THE USER ASSUMES ALL RISK OF ANY AND ALL DAMAGES, LOSSES, AND EXPENSES ARISING THEREFROM OR RESULTING THEREFROM.

PENNSYLVANIA ACT 187 REQUIREMENTS: UNDERGROUND UTILITIES SERIAL NO. 2207 SUBPART 1, PART 1026/1810 - "EXCAVATIONS, TRENCHING AND SHORING".

SEE SHEET FOR FACILITY OWNER'S DESIGNATED OFFICE ADDRESS AND TELEPHONE NUMBER.



PENNSYLVANIA ONE CALL SYSTEM, INC. CALL 3 WORKING DAYS BEFORE YOU DIG 1-800-242-1776

POCS SERIAL NUMBER: 20243300770





1. PATA 110 drawings show work spaces on roads that approach and depart 4-Way intersections. Single-flagger or multi-flagger intersection control is illustrated for intersections with three types of permanent control:
  - a) One-Way Stop
  - b) All-Way Stop
  - c) Traffic Signal
2. Flaggers shall be clearly visible to traffic for a minimum distance of E.
3. For operations of 15 minutes or less:
  - a) The ROAD WORK, ONE LANE ROAD, and FLAGGER SYMBOL signs are not required.
  - b) All channelizing devices may be eliminated if a shadow vehicle is present and the operation does not present a hazard to traffic against normal traffic flow.
4. When a shadow vehicle is not used, distance E is measured from the end of the taper to the beginning of the work space.

Signs		
		
W20-1	W20-4	W20-7

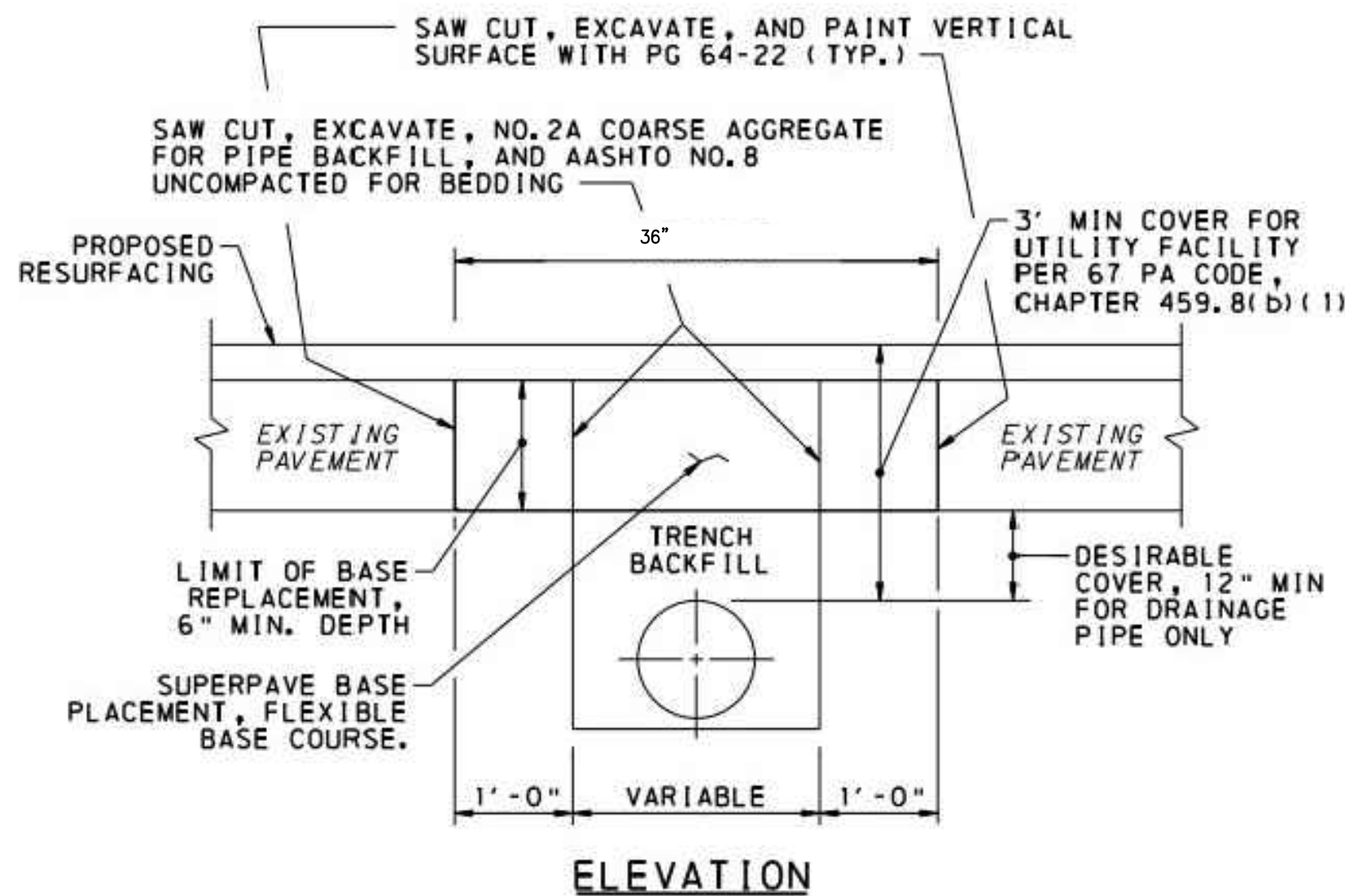
Sign Spacing, Channelizing Device Spacing, Buffer Space, and Roll Ahead Space					
Speed	Channelizing Devices Spacing	Sign Spacing		Buffer Space	Roll Ahead Space
		Urban	Rural		
S (MPH)	2S (Feet)	A (Feet)	A (Feet)	E (Feet)	H (Feet)
25	50	100 - 200	500 - 800	155	150
30	60	100 - 200	500 - 800	200	150
35	70	100 - 200	500 - 800	250	150
40	80	350 - 500	500 - 800	305	150
45	90	350 - 500	500 - 800	360	150
50	100	350 - 500	500 - 800	425	250
55	110	350 - 500	500 - 800	495	250

Taper Lengths and Minimum Number Of Channelizing Devices		
Speed	50' Per Lane Taper	
S (MPH)	Length (Feet)	Minimum Number Of Devices
25	50	6
30	50	6
35	50	6
40	50	6
45	50	6
50	50	6
55	50	6

### Intersection Flagging Options

Figure 110-1  
One Flagger Within Intersection

Figure 110-2  
Three Flaggers at Intersection

[illegible][illegible]

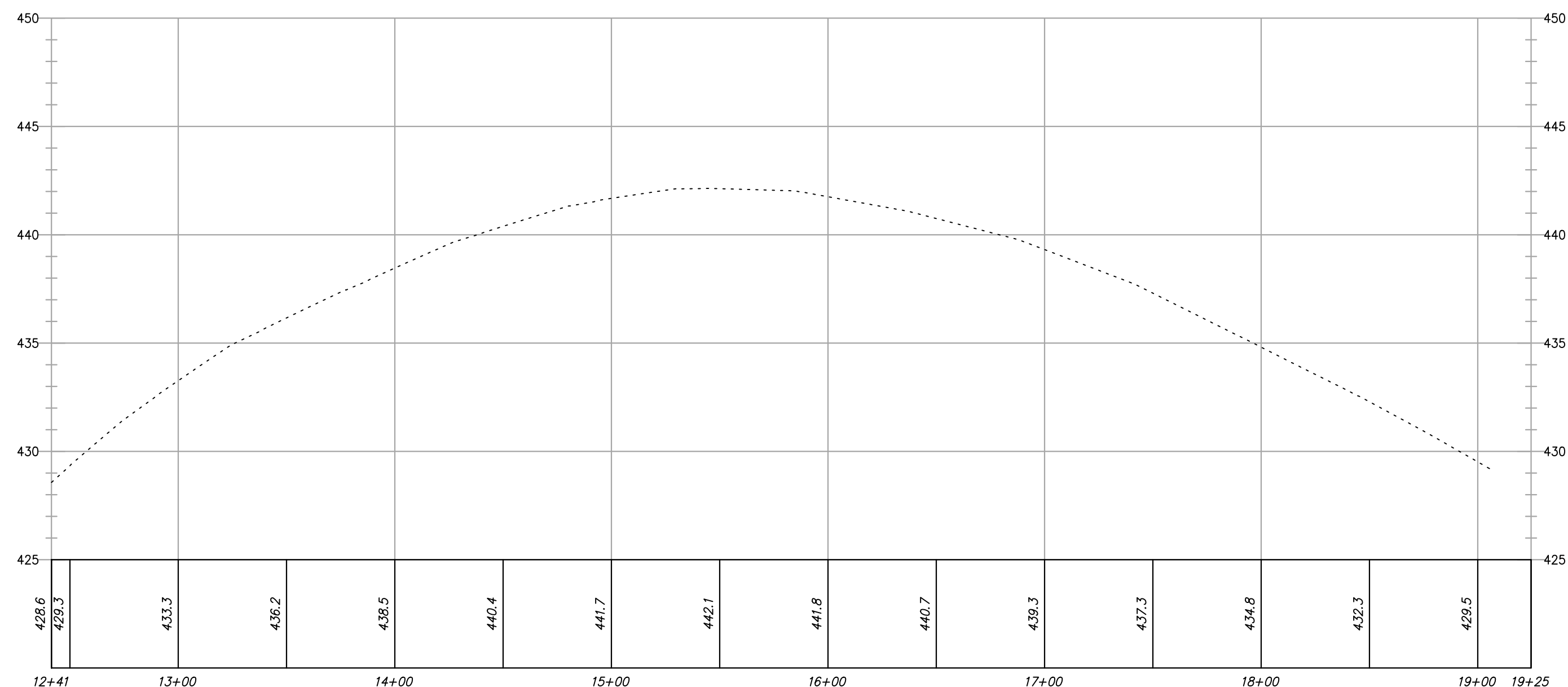
NOTE: CONSTRUCT FLEXIBLE BASE REPLACEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF PUBLICATION 408, SECTION 316.

PREPARE EXPOSED VERTICAL AND HORIZONTAL SURFACES AS PER PUBLICATION 408, SECTION 409.3(k).

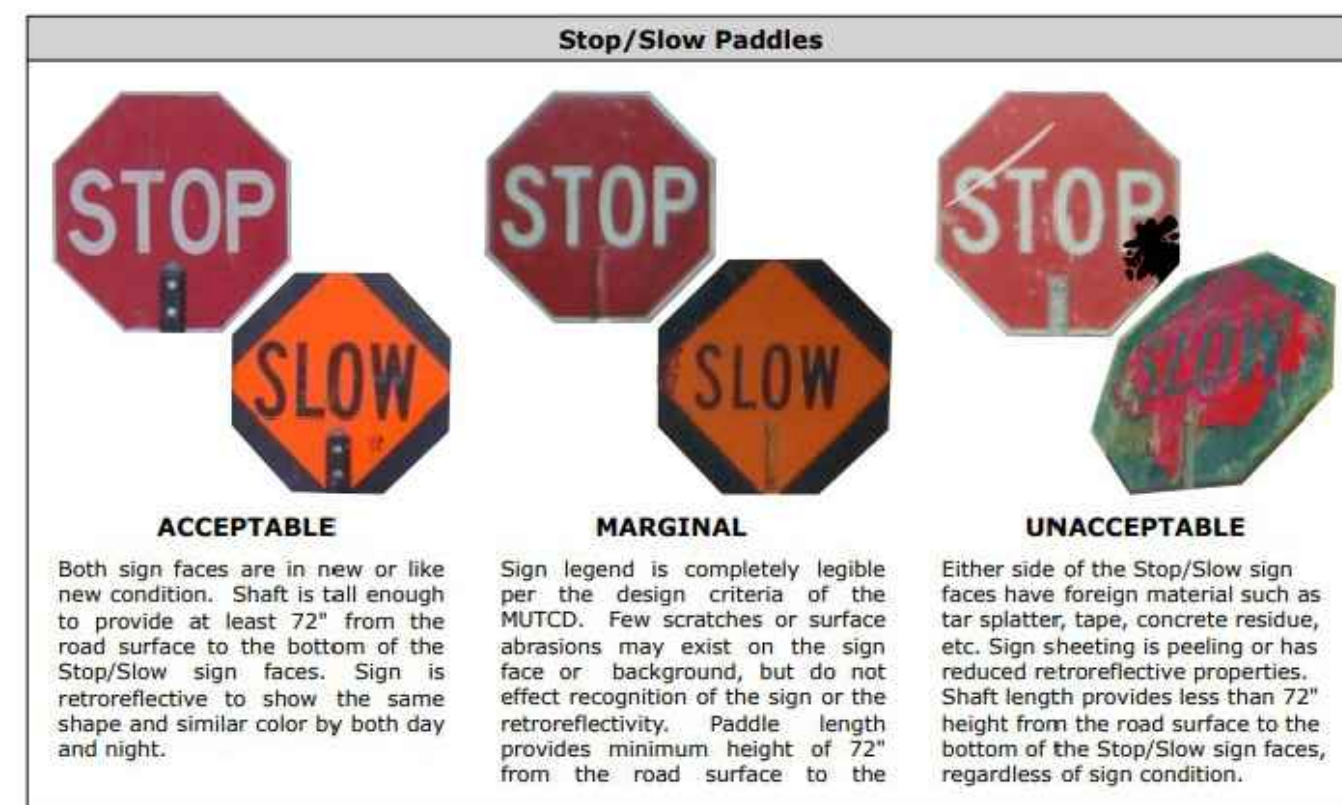
FOR NON-OVERLAY APPLICATIONS, THE TOP 1 1/2" OF BASE REPLACEMENT WILL BE SUPERPAVE WEARING COURSE.

FOR RESTORATION OF RIGID PAVEMENT, REFER TO PUBLICATION 408, SECTION 516 AND RC-26M.

PERFORM AND COMPLETE PIPE RESTORATION WORK PRIOR TO THE FLEXIBLE SUPERPAVE BASE REPLACEMENT.



PROFILE VIEW OF GILBERTSVILLE ROAD CL  
SCALE: 1"=50' HORIZ. 1"=5' VERT.

[illegible]