PENNDOT FORM EDD-VI

ENVIRONMENTAL DUE DILIGENCE (EDD) PHASE 1
VISUAL INSPECTION FORM

DATE: _____

SR/SEC: _____ COUNTY: _____

SEGMENT: _____

ECMS
Project#: _____

ACTIVITY: _____

Location: _____

Visual Site Inspection (EDD-PHASE 1):

- *Stressed Vegetation* Yes [ ] No [ ]
- *Staining on Soils* Yes [ ] No [ ]
- *Staining Along PennDOT ROW or on ROW Materials* Yes [ ] No [ ]
- *Detectable Odors* Yes [ ] No [ ]

Comments: ___Attached additional pages or information as necessary.

Findings

Check one:

☐ Due diligence inspection performed and no visual evidence of a spill or release in project ROW was detected.

☐ Due diligence inspection performed and evidence of a spill or release in project ROW was detected. Phase 2 documents attached.

☐ Due diligence not applicable for this project. No waste or fill.

SIGNATURE: _____

PRINTED NAME: _____

TITLE: _____

ORGANIZATION: _____

*** FORM MUST BE MAINTAINED FOR A MINIMUM 5 YEARS IN THE PROJECT FILE***

PENNDOT EDD-VII

CLEAN FILL ENVIRONMENTAL DUE DILIGENCE [EDD] PHASE 2

DATE: _____

SR/SEC: _____ ECMS PROJECT #: _____

SEGMENT: _____

COUNTY: _____

ACTIVITY: _____

LOCATION: _____

A Phase 1 EDD was conducted for the above project and has identified evidence of a potential spill or release of regulated substances to the material. A Phase 2 EDD was performed.

Findings Check all that apply:

☐ 1. Based on the results of the Phase 2 investigations, it has been determined that **no** spill or release has occurred.

☐ 2. Based on the results of the Phase 2 investigations, there is documented evidence that a spill or release has occurred. MUST COMPLETE ITEM 3

☐ 3. If Item 2 is checked, Item 3 must be completed: The materials were Collected and sampled, in accordance with Appendix A of the PADEP Management of Fill Guidance, and

- ☐ All regulated substances analyzed were reported as non-detectable. Form FP-001 must be completed along with the laboratory data, and provided to the property owner of the fill receiving site. Attach documentation.
- ☐ The concentration of regulated substances detected were below the levels indicated in Table FP-1a/1b. Form FP-001 must be completed along with the laboratory data, and provided to the property owner of the fill receiving site. Attach documentation.
- ☐ The concentration of regulated substances detected exceeds the levels in Table FP-1a/1b, but are below the levels indicated in Table GP-1a/1b. **The material is Regulated Fill** and must be approval by the PENNDOT Project Manager for use. If approved, PADEP General Permit WMGR096 must be obtained.
- ☐ The concentration of regulated substances detected exceeds the levels in Table GP-1a/1b. **The materials are a waste.** Manage in accordance with applicable PA Solid Waste Management Act waste regulations. Attach documentation.

SIGNATURE: _____

PRINTED NAME: _____

TITLE: _____

ORGANIZATION: _____

*** FORM MUST BE MAINTAINED FOR A MINIMUM 5 YEARS IN PROJECT FILE ***

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

NOTE: PERSONS INVOLVED IN PERFORMING EDD ACTIVITIES DO NOT NEED TO COMPLETE ALL STEPS OF THIS PROCESS. ONLY THOSE REQUIRED FOR PROPERLY CHARACTERIZING MATERIALS TO DETERMINE THEY ARE CLEAN FILL.

EDD Phase 2: STEP 1

- **Property ownership and use histories (deed reviews) for evidence of potential releases of wastes or chemicals from operations along the PennDOT ROW:**

  Land and Property Use and Ownership Types Found (Check All That Apply):

  - *Public* [ ]
  - *Private* [ ]
  - *Agricultural* [ ]
  - *Industrial* [ ]
  - *Commercial* [ ]
  - *Residential* [ ]
  - *Unused* [ ]
  - *Other* [ ]

  (Specify) _____
  _____
  _____

- **Searching environmental databases to determine the existence of potential impacts from any types of waste sites or related activities that exist or may have existed within the vicinity of the PennDOT ROW: (See Appendix 1)**

  Databases Searched (Check All That Apply):

  - *PennDOT* [ ]
  - *PA DEP* [ ]
  - *US EPA* [ ]
  - *Other* [ ]

  (Specify) _____
  _____
  _____

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

- **Conducting Interviews with All Relevant Parties to determine whether there had been any incidents that involved the release of substances directly to the PennDOT ROW:**

  Interviews Conducted (Check All That Apply):

  - *Former Property Owners* [ ]
  - *Current Property Owners* [ ]
  - *Former Land Owners* [ ]
  - *Current Land Owners* [ ]
  - *Fire Departments* [ ]
  - *Hazardous Materials Teams* [ ]
  - *Regulatory Agencies* [ ]

  *(Specify)*_____
  _____
  _____

- **Examination of aerial photographs in order to determine all land uses within the vicinity of the ROW:**

  - Aerial Photographs Evaluated Yes [ ] No [ ]; if "Yes": refer to Appendix 1 for a Pennsylvania Department of Conservation and Natural Resources (PA DCNR) web site address for locating aerial photographs.

- **Examination of Sanborne or other fire insurance maps *(there is an additional cost for obtaining these)*, in order to determine the existence of businesses that may have had any prior releases of regulated substances to the PennDOT ROW:**

  - *Sanborne Fire Insurance Maps Examined* [ ]; refer to Appendix 1 for web site address and telephone number for obtaining these maps;
  - *Alternate Fire Insurance Maps Examined* [ ]

  (Specify) _____
  _____
  _____

EDD Phase 2 STEP 2:

- **Sampling and Analysis of PennDOT ROW Materials. If there is documented evidence of a spill or release, materials must be tested to determine if they are clean fill, regulated fill, or to characterize for proper waste disposal.**

- **Sampling and analysis should be conducted in accordance with Appendix A of the PA DEP Management of Fill Guidance: 258-2182-773 April 24, 2004.**

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

APPENDIX 1: LISTING OF WEB SITES AND RELATED CONTACTS FOR ENVIRONMENTAL DUE DILIGENCE DATABASE SEARCHES

Pennsylvania Department of Environmental Protection (PA DEP) -Related Sites

- ***Pennsylvania Municipal and Residual Waste Facilities*** (web link: www.dep.state.pa.us/dep/deputate/airwaste/wm/mrw/Docs/Landfill_list.htm; (this website contains descriptions of all Pennsylvania landfills and incinerators (site name, permit number, host county, municipality, and contact person), all arranged by PA DEP region; for more information, click on either the facility name link (this leads to the PA DEP Environmental Facility Application and Compliance Tracking System (E-Facts) information about any specific facility) or contact person (e-mail) link).
- ***Pennsylvania Land Recycling and Environmental Remediation Standards Act (Act 2) Sites*** (web link: www.pasitefinder.state.pa.us/Site_listing.asp; this website contains information or all Act 2 sites that have been completed to date and updates that are made to the website when needed; click on the "more details" box associated with each site listed to obtain an interactive "E-Map" location/link for any site selected along with pertinent site information).
- ***Pennsylvania Hazardous Sites Cleanup Act (HSCA) Sites*** (web link: www.dep.state.pa.us/dep/deputate/airwaste/wm/hscp/docs/HSCA_Site_List.pdf; this website brings up a list of Pennsylvania HSCA sites that are arranged by PA DEP Region and shows municipality, county, number and dates for HSCA responses (interim and remedial levels), in addition to the site status (complete, listed on Pennsylvania Priority List, or de-listed).
- ***Pennsylvania Storage Tank Release and Active Storage Tank Sites*** (web link for storage tank releases: www.dep.state.pa.us/dep/deputate/airwaste/wm/Tanks/Document/tank_release.htm); this website contains a listing of all known storage tank incidents, and is arranged by PA DEP region (with each regional incident alphabetized by county); other details included are facility I. D. #, site name, address, city, county, incident description, confirmation date, type of incident (underground storage tank release (petroleum or hazardous material), or above-ground storage tank release; click on the *"Tank Incidents"* PDF or Adobe Acrobat Files to see the entire list of storage tank releases to date); web link for active storage tanks: www.dep.state.pa.us/dep/deputate/airwaste/wm/tanks/storagetanks/tank_listings.htm; click on the PA DEP Regional links to obtain Excel spreadsheet lists of storage tanks; information similar to what can be found on the storage tank release sites (except releases) can be found on the active storage tanks list).

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

APPENDIX 1: LISTING OF WEB SITES AND RELATED CONTACTS FOR ENVIRONMENTAL DUE DILIGENCE DATABASE SEARCHES

United States Environmental Protection Agency (US EPA)-Related Sites

- ***Pennsylvania Comprehensive Environmental Response and Liability Act (CERCLA/Superfund) Sites*** (web link: www.epa.gov/reg3hwmd/super/PA/index.htm); this website contains information on all Pennsylvania Superfund sites, including name, address, city, county, zip code, US EPA I. D. number, and National Priority List (NPL) status; click on the site name to learn more about any Superfund site).
- ***Pennsylvania Resource Conservation and Recovery Act (RCRA) Facilities*** (web link: www.epa.gov/reg3wcmd/ca/pa.htm; this website contains information for all Pennsylvania RCRA sites, including facility name (click on this for more details), US EPA I. D. number, location (click on this link to get a map showing the site in relation to nearby roadways), environmental indicators (human exposure, groundwater – click on either of these to get the documentation sheets for either or both), and clean up status (initiated, remedy selected, complete with or without controls, construction completed)).
- ***Toxic Release Inventories (TRI)*** (web link: www.epa.gov/tri); this website is from the US EPA, and contains some background information about TRI is and how it is used; releases for specific areas can be found by entering a zip code on the title page; from here, the user can view the facilities that are part of the TRI for the zip code entered, and the extent of releases that have occurred over the years (starting with 1989, and continuing through 2001, the latest year for which TRI information is available); click on the name of any facility shown to obtain a detailed report about the releases and related activities associated with the facility (onsite, off-site, air emissions, water discharges, land disposal)).
- ***Comprehensive Federal and State Site Environmental Database (Enviro-Facts)*** (web link: www.epa.gov/enviro/index_java.html; this website contains information about virtually every type of environmental matter known, both in terms of facilities and the media affected by these facilities' collective activities; under the **"topics"** tab, click on the links related to "*waste*", *water*", *"air"*, *"toxics"*, *"land"*, *"radiation"*, *"maps"*, and *"other"*, to determine the type of media information desired; under the **"advanced capabilities"** tab, click on the *"queries"*, *"maps"*, or *"reports"* links to locate more specific information; from here, the user will be led to a page where queries about any type of environmental site can be entered using a zip code, county or State abbreviation; click on the "find it' link to locate information about one or multiple environmental sites, or, to generate map locations for the any type of environmental site activity desired; the map is interactive, and the user can "zoom in" for closer details about the site; this database may include information on sites from the aforementioned Municipal and Residual Waste, Storage Tanks, RCRA, HSCA, CERCLA, Act 2, and TRI databases; sites with National Pollutant Discharge Elimination System (NPDES) and radiation-related permits also included in this database).

ENVIRONMENTAL DUE DILIGENCE PHASE 2: CLEAN FILL DETERMINATION

APPENDIX 1: LISTING OF WEB SITES AND RELATED CONTACTS FOR ENVIRONMENTAL DUE DILIGENCE DATABASE SEARCHES

Sites for Aerial Photographs and Fire Insurance Maps

- ***Aerial Photographs:*** Aerial photographs may be accessed via the Pennsylvania Department of Conservation and Natural Resources (PA DCNR) web site (web link: www.dcnr.state.pa.us/topogeo/gismaps/aerials.aspx.htm; click on the *"Proceed to the new DCNR"* link, then click on the *"Aerial Photos"* option; this will lead to a link for the U. S. Geological Survey's Aerial Photo Finder; information can be sought, and site location maps can be generated by selecting the *"zip code"*, *"populated place"*, or *"map location"* options).
- ***Sanborne Fire Insurance Maps:*** These maps may be obtained from EDR Sanborne, Inc., at 1-800-352-0050, or at www.edrnet.com; click on the "*Sanborne Maps"* link, and then click on the phrase *"Download Sample"* to view an example of this map type. **There is an additional cost for obtaining these maps.**

PENNDOT FORM EDD-VI

ENVIRONMENTAL DUE DILIGENCE (EDD) PHASE 1
VISUAL INSPECTION FORM

DATE: April 6, 2012

SR/SEC: 0202/300 (Section 330) COUNTY: Chester

SEGMENT: 0250/0006 to 0300/1025 (NB) & 0251/0001 to 0301/0985 (SB)

ECMS
Project#: 64498

ACTIVITY: Roadway reconstruction and widening

Location: SR 0030 Business to Valley Creek Bridge

Visual Site Inspection (EDD-PHASE 1):

▪ *Stressed Vegetation*	Yes [ ]	No [x]
▪ *Staining on Soils*	Yes [ ]	No [x]
▪ *Staining Along PennDOT ROW or on ROW Materials*	Yes [ ]	No [x]
▪ *Detectable Odors*	Yes [ ]	No [x]

Comments:

Findings

Check one:

X Due diligence inspection performed and no visual evidence of a spill or release in project ROW was detected.

☐ Due diligence inspection performed and evidence of a spill or release in project ROW was detected. Phase 2 documents not attached. (Historic fill; see *Comments* above)

☐ Due diligence not applicable for this project. No waste or fill.

SIGNATURE: Kenneth J. Corti

PRINTED NAME: Kenneth J. Corti

TITLE: Environmental Services Manager

ORGANIZATION: Michael Baker Jr., Inc.

*** FORM MUST BE MAINTAINED FOR A MINIMUM 5 YEARS IN THE PROJECT FILE***

DEPARTMENT OF THE ARMY

PHILADELPHIA DISTRICT CORPS OF ENGINEERS
WANAMAKER BUILDING, 100 PENN SQUARE EAST
PHILADELPHIA, PENNSYLVANIA 19107-3390

REPLY TO
ATTENTION OF

JUN 22 2012

"RECEIVED"
"ENVIRONMENTAL UNIT"

JUN 26 2012

PENNDOT 6-0

Regulatory Branch
Applications Section II

SUBJECT: CENAP-OP-R-2011-1060 (PASPGP-4)
PADEP #: E15-820
Project Name: PA DEPARTMENT OF TRANSPORTATION (S.R. 202/SECTION 330)

Mr. Chuck H. Davies, P.E.
Assistant District Executive Design
Pennsylvania Department of Transportation
District 6.0
7000 Geerdes Boulevard
King of Prussia, Pennsylvania 19406

Dear Mr. Davies:

Reference is made to your application to repair/replace the wing walls and concrete aprons, install rip-rap scour protection, and perform temporary dewatering activities at two existing culvert crossings known as C-1 and C-2 carrying Route 202, section 330 over Valley Creek; and perform filling activities (embankment fill, plunge pool) associated with the overall widening, maintenance, and reconstruction of U.S. Route 202 (section 330), beginning near U.S. Route 30 (Exton bypass) and ending near the Valley Creek Bridge at U.S. Route 202, station 357+00, in East Whiteland Township, Chester County, Pennsylvania.

You are hereby authorized by the U.S. Army Corps of Engineers to conduct the above referenced work under the authority of the enclosed Pennsylvania State Programmatic General Permit (PASPGP-4) (Enclosure 1). Please note that you must conduct the authorized work in accordance with the requirements and conditions of the PASPGP-4 and the following special conditions:

Special Conditions:

1. All work done in association with the above noted project shall be conducted in accordance with the project plans identified as: **a)** "...Erosion & Sediment Pollution Control Plan", dated May 10, 2012, last revised April 30, 2012, sheets 11 to 75 of 76, prepared by Michael Baker Jr., Incorporated; and **b)** " Chester County SR 0202 SEC 330...", dated April 12, 2012, no revisions, sheets 1 to 3 of 3, and 1, 2, and 7 of 11, prepared by Jacobs Engineering Group.

2. Construction activities shall not result in the disturbance or alteration of greater than **0.163 acres and 829 linear feet** of waters and wetlands of the United States.

3. Any deviation in construction methodology or project design from that shown on the above noted drawings must be approved by this office, in writing, prior to performance of the work. All modifications to the above noted project plans shall be approved, in writing, by this office. No work shall be performed prior to written approval of this office.

4. This office shall be notified within 10 days of the completion of the authorized work by completing and signing the enclosed "PASPGP-4 PERMIT COMPLIANCE, SELF CERTIFICATION FORM" (Enclosure 2). All notifications required by this condition shall be in writing and shall be transmitted to this office by registered mail. Oral notifications are not acceptable. Similar notification is required each time maintenance work is to be done under the terms of this Corps of Engineers permit.

5. That representatives of the U.S. Army Corps of Engineers shall be permitted to inspect the project during construction, and to collect any samples, or to conduct any tests deemed necessary.

6. That the permittee is responsible for ensuring that the contractor and/or workers executing the activity(s) authorized by this permit have knowledge of the terms and conditions of the authorization and that a copy of the permit document is at the project site throughout the period the work is underway.

7. All work areas inside and outside of the roadway ROW designated by the contractor shall be located in upland areas and shall not impact Waters of the United States, including jurisdictional wetlands, unless authorized by the U.S. Army Corps of Engineers. These areas include, but are not limited to: waste and borrow areas, staging areas, layout areas, storage areas, access roadways, batch plants, and equipment and service and management facilities.

8. That the fill material shall be free of oil and grease, debris, wood, general refuse, plaster, and other pollutants, and shall contain no broken asphalt.

9. That all temporary fill/impacts associated with dewatering activities (sandbags) shall be removed in their entirety within **60 days** after construction activities are completed. The permittee shall restore all stream bed and bank (Waters of the U.S.) elevations and contours to their pre-construction conditions.

10. The disposal of trees, brush, and construction debris in Waters of the U.S. is prohibited.

11. The permittee shall place silt fencing and orange construction fencing along the northern boundary of **Wetland E** prior to the initiation of any work or construction associated with the U.S. 202, Section 300, highway project, to assure that no bog turtles enter the work area, and to assure that no construction equipment disturb Wetland E. **The silt fencing and orange construction fencing shall be installed between November 1 and March 15, of any given year.**

12. That no impacts and/or disturbance (permanent or temporary) shall occur in **Wetland E** due to the implementation of construction activities.

13. As part of a single and complete project review, the permittee shall comply with Special Conditions 15 through 21 (compensation/mitigation), as stated in Department of the Army permit CENAP-OP-R-200100774 (PASPGP-2) initially authorized for the entire U.S. Route 202, section 300 project.

In addition, a preliminary jurisdictional determination (JD) is included with this authorization. This preliminary determination identifies the location(s) of waters and wetlands that may be waters of the United States for the subject site. This preliminary jurisdictional determination is non-binding and indicates that there may be waters of the United States, including wetlands, on the parcel. Enclosed is a copy of the Preliminary Jurisdictional Determination Form signed by the applicant or agent agreeing to accept a preliminary jurisdictional determination (Enclosure 3). Preliminary JDs are advisory in nature and may not be appealed (See attached Notification of Appeal Form (Enclosure 4) and 33 C.F.R. 331.2.); however, the applicant retains the right to request an approved Jurisdictional Determination, which may be appealed, for the site.

For purposes of computation of impacts, compensatory mitigation requirements, and other resource protection measures, a permit decision was made based on the preliminary JD. All waters and wetlands on the site that may be affected in any way by the permitted activity were treated as though they were jurisdictional waters of the United States. The attached plan(s) depicts the location of waters and wetlands on the subject property.

This determination may not be valid for the wetland conservation provisions of the Food Security Act of 1985, as amended. If you or your tenant are U.S. Department of Agriculture (USDA) program participants, or anticipate participating in USDA programs, you should request a certified wetland determination from the local office of the Natural Resources Conservation Service prior to starting work.

This letter is valid for a period of five (5) years. This preliminary jurisdictional determination is issued in accordance with current Federal regulations and is based upon the existing site conditions and information provided by you in your application. This office reserves the right to reevaluate and modify the preliminary jurisdictional determination at any time should existing site conditions or Federal regulations change, or should the information provided by you prove to be false, incomplete, or inaccurate.

If you should have any questions regarding this matter, please contact Bryan Bellacima of this office at (215) 656-6732 or write to the above address.

Sincerely,

Frank J. Cianfrani
Chief, Regulatory Branch

Enclosures

PENNSYLVANIA STATE PROGRAMMATIC GENERAL PERMIT – 4
(PASPGP-4)
July 1, 2011

Please note: the full text of the PASPGP-4 may be viewed on the Baltimore District web site at http://www.nab.usace.army.mil/Wetlands%20Permits/ or by calling the Corps at 814-235-0570.

Applicant: **PA DEPARTMENT OF TRANSPORTATION**
State Authorization(s): **E15-820**

Corps District:

☒ **Philadelphia**
U.S. Army Corps of Engineers,
Philadelphia District
Regulatory Branch
Wanamaker Building
100 Penn Square East
Philadelphia, PA 19107-3390

☐ **Baltimore**
U.S. Army Corps of Engineers,
Baltimore District
Regulatory Branch
1631 South Atherton Street
Suite 101
State College, PA 16801-6260

☐ **Pittsburgh**
U.S. Army Corps of Engineers,
Pittsburgh District
Regulatory Branch
Federal Building, 20th Floor
1000 Liberty Avenue
Pittsburgh, PA 15222-4186

It has been determined that your proposed project, which includes the discharge of dredged and/or fill material and/or the placement of structures into waters of the United States, including wetlands, qualifies for Federal authorization under the provisions of Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899, under the terms and conditions of the PASPGP-4.

All activities authorized under PASPGP-4 must comply with all conditions of the authorization, including General, Procedural, and Special Conditions. Failure to comply with all the conditions of the authorization, including project special conditions, will constitute a permit violation and may be subject to criminal, civil, or administrative penalties, and/or restoration.

The authorized activity must be performed in compliance with the following General Conditions to be authorized under PASPGP-4:

General Conditions:

1. **Permit Conditions:** The permittee shall comply with all terms and conditions set forth in the PADEP authorization for use of this permit, including all conditions of Section 401 Water Quality Certification, and any subsequent amendment or modification to such authorization. The permittee shall conduct all work and activities in strict compliance with all approved maps, plans, profiles, and specifications used by PADEP and/or the Corps as the basis for its authorization or subsequent modification of authorization.

2. **Aquatic Life Movements:** No activity may substantially disrupt the movement of those species of aquatic life indigenous to the waterbody, including those species which normally migrate through the area, unless the activity's primary purpose is to impound water. Culverts placed in streams must be appropriately depressed to maintain aquatic life movement and low flow conditions.

3. **Threatened and Endangered Species:** If an activity is authorized under the PASPGP-4, and a Federally listed threatened or endangered species, or proposed species or critical habitat, is subsequently found to be present, all work must cease, and the Corps and USFWS (or NMFS) must be notified. The PASPGP-4 verification is suspended and will not be re-issued until consultation pursuant to Section 7 of the ESA is concluded and adverse effects to Federally listed threatened, endangered, and proposed species and critical habitat are avoided.

ENCLOSURE 1

Furthermore, persons have an independent responsibility under Section 9 of ESA to not engage in any activity that could result in the "take" of a Federally listed species.

4. **Spawning Areas:** The permittee shall comply with all time-of-year restrictions as set forth by the PFBC or other designated agency. Discharges or structures in spawning or nursery areas shall not occur during spawning seasons, unless written approval is obtained by the PFBC or other designated agency. In addition, work in areas used for other time sensitive life span activities of fish and wildlife (such as hibernation or migration) may necessitate the use of seasonal restrictions for avoidance of adverse impacts to vulnerable species. Impacts to these areas shall be avoided or minimized to the maximum extent practicable during all other times of the year.

5. **Waterfowl Breeding and Wintering Areas:** Activities including discharges of dredged or fill material or the placement of structures in breeding and wintering areas of migratory waterfowl must be avoided to the maximum extent practicable.

6. **Shellfish Production:** No discharge of dredged or fill material and/or the placement of structures may occur in areas of concentrated shellfish production, unless the discharge is directly related to an authorized shellfish harvesting activity.

7. **Adverse Effects From Impoundments:** If the activity, including the discharge of dredged or fill material or the placement of a structure, creates an impoundment of water, the adverse effects on the aquatic system caused by the accelerated passage of water and/or the restriction of its flow, including impacts to wetlands, shall be minimized to the maximum extent practicable.

8. **Obstruction of High Flows:** To the maximum extent practicable, the activity must be designed to maintain pre-construction downstream flow conditions (i.e., location, capacity, and flow rates). Furthermore, the activity must not permanently restrict or impede the passage of normal or expected high flows (unless the primary purpose of the fill is to impound waters), and the structure or discharge of dredged and/or fill material shall be designed to withstand expected high flows.

9. **Erosion and Sediment Controls:** During construction, appropriate erosion and siltation controls must be used and maintained in effective operating condition in accordance with State regulations. All exposed soil and other fill material must be permanently stabilized.

10. **Suitable Material:** No activity, including discharges of dredged and/or fill material or the placement of structures, may consist of unsuitable material (i.e., asphalt, trash, debris, car bodies, etc.). No material discharged shall contain toxic pollutants in amounts that would violate the effluent limitation standards of § 307 of the CWA.

11. **Temporary Fill:** Temporary fill in waters and wetlands authorized by the PASPGP-4 (i.e., access roads and cofferdams) shall be properly constructed and stabilized during use to prevent erosion and accretion. Temporary fill in wetlands shall be placed on geotextile fabric laid on existing wetland grade. Whenever possible, rubber or wooden mats should be used for equipment access through wetlands to the project area. Temporary fills shall be removed, in their entirety, to an upland site, and suitably contained to prevent erosion and transport to a waterway or wetland. Temporary fill areas shall be restored to their preconstruction contours, elevations, and hydrology and revegetated with non-invasive, native species.

12. **Equipment Working in Wetlands:** Measures must be taken to minimize soil disturbance when heavy equipment is used in wetland areas. These measures include, but are not limited to, avoiding the use of such equipment, use of timber mats or geotextile fabric, and the use of low pressure tire vehicles.

13. **Installation and Maintenance:** Any structure or fill authorized shall be properly installed and maintained to ensure public safety.

14. **PASPGP-4 Verification:**

a. The PASPGP-4 expires June 30, 2016, unless suspended or revoked.

b. Activities authorized under a project specific PASPGP-4 expire June 30, 2016, unless suspended, revoked, or the PADEP authorization expires, whichever date occurs sooner. Activities authorized under the project specific PASPGP-4 that have commenced construction or are under contract to commence construction will remain authorized provided the activity is completed within 12 months of the date of the PASPGP-4's expiration, modification, or revocation; or until the expiration date of the project specific verification, whichever is sooner.

15. **One-Time Use:** A PASPGP-4 authorization is valid to construct the project, or perform the activity, one time only, except for PASPGP-4 authorizations specifically issued for reoccurring maintenance activities.

16. **Water Supply Intakes:** No activity, including discharges of dredged and/or fill material and/or the placement of structures, may occur in the proximity of a public water supply intake and adversely impact the public water supply.

17. **Cultural Resources:** For all activities verified under a PASPGP-4, upon the discovery of the presence of previously unknown Historic Properties (historic or archaeological), all work must cease and the permittee must notify the SHPO and the Corps of Engineers. The PASPGP-4 authorization is not valid until it is determined, through the Section 106 consultation process, whether the activity will have an effect on the Historic Property. The PASPGP-4 may be reverified and special conditions added if necessary, after an effects determination on the Historic Property is made. The PASPGP-4 authorization may be suspended and/or revoked in accordance with 33 CFR 325.7 for the specific activity if an adverse affect on the Historic Property cannot be avoided or mitigated.

18. **Tribal Rights:** No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

19. **Corps Civil Works Projects:** The PASPGP-4 does not authorize any work which will interfere with an existing or proposed Corps Civil Works project (i.e., flood control projects, dams, reservoirs, and navigation projects). The permittee understands and agrees that, if future operations by the United States require removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal, relocation, or alteration.

20. **Navigation:** No activity authorized under PASPGP-4 may cause more than a minimal adverse affect on navigation. No attempt shall be made by the permittee to prevent the full and free use by the public of all navigable waters at or adjacent to the activity authorized herein. In addition, activities that require temporary causeways that prohibit continued navigational use of a waterway (i.e., temporary causeways extending greater than ¾ the width across the waterway) shall be removed in their entirety upon completion of their use. Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

21. **Inspections:** The permittee shall allow a District Engineer or his authorized representative(s) to make periodic inspections at any time deemed necessary in order to ensure that the work is being performed in accordance with all the terms and conditions of the PASPGP-4. The District Engineer may also require post-construction engineering drawings (as-built plans) for completed work.

22. **PASPGP-4 Permit Compliance Self Certification Form:** A Self Certification Form, regarding the PASPGP-4 authorized work and required mitigation, will be forwarded to each permittee with the PASPGP-4 verification. Every permittee, who receives a written PASPGP-4 verification, shall submit the signed Self Certification Form upon completion of the authorized work and required mitigation. The completed form shall be returned to the appropriate Corps District.

23. **Permit Modifications:** Any proposed modification of the authorized overall project that results in a change in the authorized impact to, or use of waters of the United States, including jurisdictional wetlands, must be approved by PADEP. Corps approval is also required if the overall project had been previously reviewed by the Corps as a Category III activity, or the proposed modification causes the overall project impacts to exceed 1.0 acre of waters of the United States, including jurisdictional wetlands, or 250 linear feet of streams, rivers, other watercourses and open water areas. Project modifications that cause the overall project impacts to exceed 1.0 acre of waters of the United States, including wetlands, may not be eligible for PASPGP-4 and will be forwarded to the Corps for review.

24. **Recorded Conservation Instruments:** As per Part IV.A.26 and Part IV.B.4 and Part IV.C.8 of this permit, proposed Draft Conservation Instruments may be submitted by the applicant as part of the permit application package for review and approval. **When such proposed Conservation Instruments are submitted by the applicant, verification of the recorded deed restriction, conservation easement, or deed restricted open space area shall be forwarded to the appropriate Corps District and appropriate PADEP offices, prior to the initiation of any permitted work.**

25. **Property Rights:** This PASPGP-4 does not convey any property rights, either in real estate or material, or any exclusive privileges; nor does it authorize any injury to property or invasion of rights or any infringement of Federal, State, or local laws or regulations.

26. **Navigable Waters of the United States (Section 10 Waters):** In addition to the conditions referenced above, the following conditions are applicable for navigable waters of the United States eligible for the PASPGP-4. The PASPGP-4 may be used to authorize work in the following navigable waters of the United States:

a. Codorus Creek – from the confluence with the Susquehanna River 11.4 miles upstream to the Indian Rock Dam in York, Pennsylvania;

b. Main Stem Susquehanna River – from the confluence with the Chesapeake Bay upstream to Athens, Pennsylvania (approximately 4 miles south from the New York State line);

c. West Branch of the Susquehanna River – from the confluence with the main stem Susquehanna River upstream to the dam at Lock Haven, Pennsylvania;

d. Chester Creek – from the confluence with the Delaware River 2 miles upstream;

e. Crum Creek – from the confluence with the Delaware River 1 mile upstream to the upstream side of the dam at Eddystone;

f. Darby Creek – from the confluence with the Delaware River 5 miles upstream to the upstream side of 84th Street Bridge in Philadelphia;

g. Delaware River – from the Morrisville-Trenton Railroad Bridge in Morrisville, Pennsylvania, including the West Branch of the Delaware River, upstream to the Pennsylvania/New York border at the 42nd parallel;

h. Lehigh River – from the confluence with the Delaware River 72 miles upstream to the downstream side of PA Route 940 Bridge;

i. Neshaminy Creek – from the confluence with the Delaware River, including the Neshaminy State Park Harbor Project at the mouth of Neshaminy creek, 4 miles upstream to the downstream side of the Newportville Bridge;

j. Pennypack Creek – from the confluence with the Delaware River 2 miles upstream to the downstream side of Frankford Avenue Bridge in Philadelphia;

k. Ridley Creek – from the confluence with the Delaware River 1 mile upstream to the upstream side of the Baltimore and Ohio Railroad Bridge in Chester, Pennsylvania;

l. Schuylkill River – from the Fairmont Dam, 104 miles upstream to Port Carbon, Pennsylvania; and

m. Schuylkill Navigation Channel (Manayunk Canal) – along the Schuylkill River for two miles from the Flat Rock Dam to Lock Street in the Manayunk Section of Philadelphia, Pennsylvania.\

27. **For Aerial Transmission Lines Across Navigable Waters:**

a. The following minimum clearances are required for aerial electric power transmission lines crossing navigable waters of the United States. These clearances are related to the clearances over the navigable channel provided by existing fixed bridges, or the clearances which would be required by the United States Coast Guard for new fixed bridges, in the vicinity of the proposed aerial transmission line. These clearances are based on the low point of the line under conditions producing the greatest sag, taking into consideration temperature, load, wind, length of span, and type of supports as outlined in the National Electrical Safety Code:

NOMINAL SYSTEM VOLTAGE (kV)	Minimum additional clearance (ft.) above Clearance required for bridges
115 and below	20
138	22
161	24
230	26
350	30
500	35
700	42
750-765	45

i. Clearances for communication lines, stream gauging cables, ferry cables, and other aerial crossings must be a minimum of ten feet above clearances required for bridges, unless specifically authorized otherwise by the District Engineer.

ii. Corps of Engineer regulation ER 1110-2-4401 prescribes minimum vertical clearances for power communication lines over Corps lake projects. In instances where both this regulation and ER 1110-2-4401 apply, the greater minimum clearance is required.

b. **Encasement:** The top of the cable, encasement, or pipeline shall be located a minimum of three feet below the existing bottom elevation of the streambed and shall be backfilled with suitable heavy material to the preconstruction bottom elevation. Where the cable, encasement, or pipeline is placed in rock, a minimum depth of one foot from the lowest point in the natural contour of the streambed shall be

maintained. When crossing a maintained navigation channel, the requirements are a minimum of eight feet between the top of the cable, encasement, or pipeline and the authorized depth of the navigation channel. For maintained navigational channels, where the utility line is placed in rock, a minimum depth of two feet from the authorized depth of the navigation channel shall be maintained.

c. **As-built drawings:** Within 60 days of completing an activity that involves an aerial transmission line, submerged cable, or submerged pipeline across a navigable water of the United States (i.e., Section 10 waters), the permittee shall furnish the Corps and the National Oceanic and Atmospheric Administration, Nautical Data Branch, N/CS26, Station 7317, 1315 East-West Highway, Silver Spring, Maryland, 20910 with professional, certified as-built drawings, to scale, with control (i.e., latitude/longitude, state plane coordinates), depicting the alignment and minimum clearance of the aerial wires above the mean high water line at the time of survey or depicting the elevations and alignment of the buried cable or pipeline across the navigable waterway.

d. **Aids to Navigation:** The permittee must prepare and provide for United States Coast Guard (USCG) approval, a Private Aids To Navigation Application (CG-2554). The form can be found at: http://www.uscg.mil/forms/cg/CG_2554.pdf. Within 30 days of the date of receipt of the USCG approval, the permittee must provide a copy to the applicable Corps District.

By Authority of the Secretary of the Army:

David E. Anderson
Colonel, Corps of Engineers
District Engineer, Baltimore

Philip M. Secrist, III
Lieutenant Colonel, Corps of Engineers
District Engineer, Philadelphia

William H. Graham
Colonel, Corps of Engineers
District Engineer, Pittsburgh

PASPGP-4 PERMIT COMPLIANCE, SELF-CERTIFICATION FORM

Project Name:	PADOT 6-0 SR 202 Section 330	Applicant Name:	PA DEPARTMENT OF TRANSPORTATION
PADEP Permit No:	E15-820	Date of Issuance:	
Corps Permit Number:	CENAP-OP-R-2011-1060	Date of Issuance:	
Waterway:	Valley Creek	County:	Chester

In accordance with the compliance certification condition of your PASPGP-4 authorization, you are required to complete and sign this certification form and return it to the appropriate Corps of Engineers District in which the work is located.

☒ U.S. Army Corps of Engineers
Philadelphia District
Regulatory Branch
Wanamaker Building
100 Penn Square East
Philadelphia, PA 19107-3390

☐ U.S. Army Corps of Engineers
Baltimore District
1631 South Atherton Street
Suite 101
State College, PA 16801-6260

☐ U.S. Army Corps of Engineers
Pittsburgh District
Regulatory Branch
Federal Building, 20th Floor
1000 Liberty Avenue
Pittsburgh, PA 15222-4186

Please note that the permitted activity is subject to compliance inspections by U.S. Army Corps of Engineers representatives. As a condition of this permit, failure to return this notification form, provide the required information below, or to perform the authorized work in compliance with the permit, can result in suspension, modification or revocation of your authorization in accordance with 33 CFR Part 325.7 and/or administrative, civil, and/or criminal penalties, in accordance with 33 CFR part 326.

Please provide the following information:

1. Date authorized work commenced: _____

2. Date authorized work completed: _____

3. Was all work, including any required mitigation, completed in accordance with your PASPGP-4 authorization?
☐YES ☐ NO

4. Explain any deviations (use additional sheets if necessary)

_____

_____

5. Was mitigation accomplished through an approved in-lieu fee program?
☐YES ☐NO (if **YES** please provide documentation, if **NO** complete Nos. 6 and 7 below).

6. Wetland Mitigation: Required? ☒ YES ☐ NO Required Completion Date _____
Completed? ☐ YES ☐ NO Mitigation Monitoring Reports Required? ☐ Yes ☐ No

7. Attach labeled photographs showing completed work including mitigation area(s) **(not required for PADEPGP's/Waivers)**

I hereby certify that, except as noted above, that all work, including mitigation, has been completed in accordance with the terms and conditions, including special conditions of the above referenced permit

Applicant's Signature	***Consultant/Agent's Signature***
Address:	***Address:***
Telephone:	***Telephone:***
Email:	***Email:***

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PRELIMINARY JURISDICTIONAL DETERMINATION (JD): June 8, 2012

B. NAME AND ADDRESS OF PERSON REQUESTING PRELIMINARY JD:
Mr. Kenneth J. Corti
Michael Baker Jr., Inc.
201 Gibraltar Road
Suite 120
Horsham, PA 19044

C. DISTRICT OFFICE, FILE NAME, AND NUMBER: Philadelphia District, PA Department of Transportation (U.S. 202/section 330), CENAP-OP-R-2011-1060

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:
(USE THE ATTACHED TABLE TO DOCUMENT MULTIPLE WATERBODIES AT DIFFERENT SITES)

State: Pennsylvania County/parish/borough: Chester County City:
Center coordinates of site (lat/long in degree decimal format):
Lat. 40.04028° N, Long. -75.57778 ° W

Universal Transverse Mercator: Easting (x) Northing (y)

Name of nearest waterbody: Valley Creek

Identify (estimate) amount of waters in the review area:

Non-wetland waters: linear feet: width (ft) and/or 0.095 acres.
Cowardin Class: Riverine
Stream Flow: Perennial

Wetlands: acres.
Cowardin Class:

Name of any water bodies on the site that have been identified as Section 10 waters:

Tidal:

Non-Tidal:

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☒ Office (Desk) Determination. Date: June 8, 2012
☐ Field Determination. Date(s):

ENCLOSURE 3

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.
This preliminary JD finds that there *"may be"* waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA: **Data reviewed for preliminary JD** (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Michael Baker Jr., Inc.

☐ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
- ☐ Office concurs with data sheets/delineation report.
- ☐ Office does not concur with data sheets/delineation report.

☐ Data sheets prepared by the Corps: .

☐ Corps navigable waters' study: .

☐ U.S. Geological Survey Hydrologic Atlas: .
- ☐ USGS NHD data.
- ☐ USGS 8 and 12 digit HUC maps.

☒ U.S. Geological Survey map(s). Cite scale & quad name: Malvern.

☒ USDA Natural Resources Conservation Service Soil Survey. Citation: Chester County.

☒ National wetlands inventory map(s). Cite name: Chester County.

☐ State/Local wetland inventory map(s): .

☐ FEMA/FIRM maps: .

☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)

☐ Photographs: ☐ Aerial (Name & Date): .
☐ Other (Name & Date): .

☒ Previous determination(s). File no. and date of response letter: CENAP-OP-R-200100774.

☐ Other information (please specify): .

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Bryan P. Ballentine 6/21/12
Signature and date of
Regulatory Project Manager
(REQUIRED)

6/25/2012
Signature and date of
person requesting preliminary JD
(REQUIRED, unless obtaining the signature is impracticable)

TABLE 1

Site number	Latitude	Longitude	Cowardin Class	Estimated amount of aquatic resource in review area	Class of aquatic resource
Wetland B	40.05139	-75.56417	PFO	0.8	Section 404
Wetland C	40.05194	-75.56306	PSS	0.4	Section 404
3					
4					
5					
6					
7					
8					
9					
10					

NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND REQUEST FOR APPEAL

Applicant: PA Department of Transportation (S.R. 202 section 330)	File Number: CENAP-OP-R-2011-1060	Date: JUN 22 2012
Attached is:		See Section below
☐	INITIAL PROFFERED PERMIT (Standard Permit or Letter of permission)	A
☐	PROFFERED PERMIT (Standard Permit or Letter of permission)	B
☐	PERMIT DENIAL	C
☐	APPROVED JURISDICTIONAL DETERMINATION	D
☒	PRELIMINARY JURISDICTIONAL DETERMINATION	E

SECTION I - The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://usace.army.mil/inet/functions/cw/cecwo/reg or Corps regulations at 33 CFR Part 331.

A: INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the Philadelphia District Engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations (JD) associated with the permit.

- OBJECT: If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the Philadelphia District Engineer. Your objections must be received by the Philadelphia District Engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the Philadelphia District Engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the Philadelphia District Engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B: PROFFERED PERMIT: You may accept or appeal the permit

- ACCEPT: If you received a Standard Permit, you may sign the permit document and return it to the Philadelphia District Engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.

- APPEAL: If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the North Atlantic Division Engineer, ATTN: CENAD-PD-PSD-O, Fort Hamilton Military Community, Building 301, General Lee Avenue, Brooklyn, NY 11252-6700. This form must be received by the North Atlantic Division Engineer within 60 days of the date of this notice with a copy furnished to the Philadelphia District Engineer.

C: PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the North Atlantic Division Engineer, ATTN: CENAD-PD-PSD-O, Fort Hamilton Military Community, Building 301, General Lee Avenue, Brooklyn, NY 11252-6700. This form must be received by the North Atlantic Division Engineer within 60 days of the date of this notice with a copy furnished to the Philadelphia District Engineer.

D: APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information.

- ACCEPT: You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.

- APPEAL: If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the North Atlantic Division Engineer, ATTN: CENAD-PD-PSD-O, Fort Hamilton Military Community, Building 301, General Lee Avenue, Brooklyn, NY 11252-6700. This form must be received by the North Atlantic Division Engineer within 60 days of the date of this notice with a copy furnished to the Philadelphia District Engineer.

E: PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION

If you have questions regarding this decision and/or the appeal process you may contact:	If you only have questions regarding the appeal process you may also contact:
Mr. Bryan P. Bellacima U.S. Army Corps of Engineers, Philadelphia District ATTN: CENAP-OP-R Wanamaker Building, 100 Penn Square East Philadelphia, PA 19107-3390 Telephone: (215) 656-6732	Mr. Michael G. Vissichelli Administrative Appeals Review Officer North Atlantic Division, Corps of Engineers Fort Hamilton Military Community Bldg. 301, General Lee Avenue Brooklyn, NY 11252-6700 Telephone: (718) 765-7163 Email: Michael.G.Vissichelli@usace.army.mil

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	Date:	Telephone number:
_____ Signature of appellant or agent.		

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHEAST REGIONAL OFFICE

Mr. Charles Davies, P.E.
Assistant District Executive/Design
Pennsylvania Department of
Transportation, District 6
7000 Geerdes Boulevard
King of Prussia, PA 19406

Re: S.R.0202 Section 300 Roadway Improvement Project
Permit No. E15-820
APS No.756121, AUTH No.889211
East Whiteland Township
Chester County

Dear Mr. Davies:

Enclosed is your State Water Obstruction and Encroachment Permit. Please review the permit so that you are aware of the extent of authorization and the conditions that apply.

Please be advised this permit does not have Federal authorization for this project and such authorization is required prior to starting your project. We encourage you to contact the U.S. Army Corps of Engineers, 215.656.6728 concerning any Federal permits or approvals you may also need.

Prior to the commencement of construction, the enclosed *Acknowledgment of Apprisal of Permit Conditions* must be completed and signed by the permittee and an individual responsible for the supervision or control of the construction work acknowledging and accepting the general and special conditions, if any, contained in the permit. Unless the signed *Acknowledgment of Apprisal of Permit Conditions* is submitted to this office, the permit is void.

Also, a copy of both the permit and the *Acknowledgment of Apprisal of Permit Conditions* must be available at the work site for inspection upon request by any officer or agent of the Department or any other Federal, State, County, and Municipal agency.

Finally, the Completion Report form must be signed by you and the supervising engineer indicating that the work has been completed as approved. The Completion Report must be submitted to this office within 30 days of the completion of the approved project.

If you have any questions concerning this matter, please call Mr. Daniel Mensah at the phone number located in the first page footer.

Sincerely,

Joseph A. Feola
Southeast Regional Director

cc: U.S Army Corp of Engineers-Philadelphia District
Chester County Conservation District
East Whiteland Township
Mr. Corti - Michael Baker, Jr. Inc.
Mr. Vlot-DEP
Mr. Mensah-DEP
Ms. Nucci
Re 30 (GJE12WAW)025-4

PERMIT NO. E15-820

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
WATERWAYS AND WETLANDS

WATER OBSTRUCTION AND ENCROACHMENT PERMIT

The Department of Environmental Protection ("Department"), established by the Act of December 3, 1970, P.L. 834 (71 P.S. §§ 510–1 et seq.) and empowered to exercise certain powers and perform certain duties under and by virtue of the Act of November 26, 1978, P.L. 1375, as amended by the Act of October 23, 1979, P.L. 204 (32 P.S. §§ 693.1 et seq.) known as the "Dam Safety and Encroachments Act"; Act of October 4, 1978, P.L. 851 (32 P.S. §§ 679.101 et seq.) known as the "Flood Plain Management Act"; Act of June 22, 1937, P.L. 1987 (35 P.S. §§ 691.1 et seq.) known as the "Clean Streams Law"; and the Administrative Code, Act of April 9, 1929, P.L. 177, as amended, which empowers the Department to exercise certain powers and perform certain duties by law vested in and imposed upon the Water Supply Commission of Pennsylvania and the Water and Power Resources Board, hereby issues this permit to:

Pennsylvania Department of
Transportation, District 6
7000 Geerdes Boulevard
King of Prussia, PA 19406

giving its consent to perform the following water obstruction and encroachment activities associated with the final Phase of the S.R. 0202-300 Improvement Project at Section 330. This section proposes to widen 2.5 miles of Route 202 between Route 30 (Exton bypass) and the Valley Creek Bridge. An additional lane and shoulder in each direction will be added within the existing grass median. This section proposes to permanently impact approximately 0.047 acre of wetlands and temporarily impact 0.021 acre of wetlands. Also, approximately 232 linear feet of stream will be permanently impacted, and approximately 57 linear feet will be temporarily impacted.

1. **To place fill and excavate in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 259+00 R (Malvern, PA, Quadrangle N:7.2 inches, W:11.2 inches, Latitude: 40°02'21", Longitude: 75°34'46"). Temporary floodplain impacts of 0.195 acre (8,491 sq ft), permanent floodplain impact of 0.063 acre (2,764 sq ft), and 116 cubic yards of fill is created to facilitate the construction for proposed Stormwater Detention Basin D-1.**

2. **An unnamed tributary to Valley Creek (EV) at Mainline Station 259+00 R (Malvern, PA, Quadrangle N:7.2 inches, W:11.2 inches, Latitude: 40°02'21", Longitude: 75°34'46"). Temporary stream impact of 34 linear feet and 0.007 acre is created as a result of the limit of disturbance for installing riprap associated with Stormwater Detention Basin D-1.**

3. **To place fill and excavate in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 261+00 R (Malvern, PA, Quadrangle N:7.2 inches, W:11.2 inches, Latitude: 40°02'22", Longitude: 75°34'42"). Temporary floodplain impacts of 0.858 acre (37,402 sq ft), permanent floodplain impact of 0.179 acre (7,783 sq ft), and 190 cubic yards of fill is created to facilitate the construction for proposed Stormwater Mitigation Site M-7A.**

4. **To place fill in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 260+50 R (Malvern, PA, Quadrangle N:7.2 inches, W:11.2 inches, Latitude: 40°02'23", Longitude: 75°34'44"). A temporary impact of 0.016 acre (677 ft^2) of fill is created to facilitate the proposed placement of roadway embankment fill.**

5. **To place fill and excavate in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 263+00 L (Malvern, PA, Quadrangle N:7.4 inches, W:11.2 inches, Latitude: 40°02'26", Longitude: 75°34'43"). Temporary floodplain impacts of 0.201 acre (8,736 sq ft), permanent floodplain impact of 0.015 acre (674 ft^2), and 20 cubic yards of fill is created to facilitate the construction for proposed Stormwater Mitigation Site M-7.**

6. **An unnamed tributary to Valley Creek (EV) at Mainline Station 265+00 R&L (Malvern, PA, Quadrangle N:4.9 inches, W:7.4 inches, Latitude: 40°02'28", Longitude: 75°34'41"). A permanent stream impact of 39 linear feet and 0.016 acre is created to facilitate the placement of riprap at both ends of Culvert C-1.**

7. **To place fill and excavate in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 265+00 R&L (Malvern, PA, Quadrangle N:4.9 inches, W:7.4 inches, Latitude: 40°02'28", Longitude: 75°34'41"). A permanent floodplain impact of 0.002 acre (78 sq ft) and 9 cubic yards is created to facilitate the placement of riprap at both ends of Culvert C-1.**

8. **An unnamed tributary to Valley Creek (EV) at Mainline Station 295+00 L (Malvern, PA, Quadrangle N:8.3 inches, W:9.7 inches, Latitude: 40°02'43", Longitude: 75°34'10"). A temporary stream impact of 23 linear feet and 0.013 acre are created to facilitate the installation of a temporary access road in the area of Culvert C-2.**

9. **An unnamed tributary to Valley Creek (EV) at Mainline Station 297+00 R&L (Malvern, PA, Quadrangle N:5.5 inches, W:6.4 inches, Latitude: 40°02'42", Longitude: 75°34'10"). A permanent stream impact of 193 linear feet and 0.066 acre are created to facilitate the placement of riprap at both ends of Culvert C-2, including 121 linear feet of reticulated concrete block revetment system within the floor of C-2 for scour protection.**

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12. **To place fill and excavate in the 100-year floodplain of the unnamed tributary to Valley Creek (EV) at Mainline Station 298+60 R (Malvern, PA, Quadrangle N:8.4 inches, W:9.4 inches, Latitude: 40°02'46", Longitude: 75°33'59"). Temporary floodplain impacts of 0.024 acre (1,066 sq ft) are created to facilitate the fill in the area of the Chester Valley Trail Culvert.**

13. **To place fill and impact a forested Wetland (B), which drains to Valley Creek (EV) at Mainline Station 321+00 L (Malvern, PA, Quadrangle N:6.2 inches, W:6.0 inches, Latitude: 40°03'05", Longitude: 75°33'51"). A temporary wetland impact of 0.014 acre and permanent wetland impact of 0.024 acre are created to facilitate the proposed roadway fill.**

14. **To place fill and impact a forested/scrub-shrub Wetland (C), which drains to Valley Creek (EV) at Mainline Station 325+00 L (Malvern, PA, Quadrangle N:6.3 inches, W:5.9 inches, Latitude: 40°03'07", Longitude: 75°33'47"). A temporary wetland impact of 0.007 acre and permanent wetland impact of 0.023 acre are created to facilitate the proposed roadway fill.**

15. **To place fill and excavate in the 100-year floodplain of Valley Creek (EV) at Mainline Station 325+00 L (Malvern, PA, Quadrangle N:6.3 inches, W:5.9 inches, Latitude: 40°03'07", Longitude: 75°33'47"). Temporary floodplain impacts of 0.033 acre (1,430 ft^2), permanent floodplain impact of 0.085 acre (3,706 sq ft), and 25 cubic yards of fill are created to facilitate the proposed roadway fill in the area of Wetland C.**

16. **To place fill and excavate in the 100-year floodplain of Valley Creek (EV) at Mainline Station 325+60 L (Malvern, PA, Quadrangle N:9.6 inches, W:9.0 inches, Latitude: 40°03'09", Longitude: 75°33'47"). A temporary floodplain impact of 0.088 acre (3,834 ft^2) is created to facilitate the construction for proposed Stormwater Mitigation Site 4-1.**

17. **To place fill and excavate in the 100-year floodplain of Valley Creek (EV) at Mainline Station 341+00 L (Malvern, PA, Quadrangle N:9.5 inches, W:8.1 inches, Latitude: 40°03'06", 75°32'25"). Temporary floodplain impacts of 0.044 acre (1,951 ft^2), permanent floodplain impact of 0.077 acre (3,388 sq ft), and 260 cubic yards are created to facilitate the construction for proposed Stormwater Mitigation Site 20.**

The issuance of this permit also constitutes approval of a Water Quality Certification under Section 401 of the Federal Water Pollution Control Act [33 U.S.C.A. 1341(a)].

If this work is not completed on or before the **31st** day of **December** A.D. **2015**, this permit, if not previously revoked or specifically extended by the Department, in writing, shall become void without further notification.

This permit is issued in response to an application filed with the Department on the **28th** day of **July** A.D. **2011**, and with the understanding that the work shall be performed in accordance with the maps, plans, profiles, and specifications filed with and made a part of the application on **November 21, 2011, and January 24, 2012,** subject, however, to the provisions of the Dam Safety and Encroachments Act, the Flood Plain Management Act, the Clean Streams Law, the Administrative Code, the rules and regulations promulgated thereunder and the following conditions and restrictions:

1. The permittee shall complete and sign the *Acknowledgment of Appraisal of Permit Conditions* form thereby expressly certifying the permittee's acceptance of, and agreement to comply with, the terms and conditions of the permit. The permittee shall return a signed copy of the form to the Department. The permit will not be effective until the signed copy of the form is received by the Department.

2. The Department, in issuing this permit, has relied on the information and data which the permittee has provided in connection with his permit application. If, subsequent to the issuance of this permit, such information and data prove to be false, incomplete or inaccurate, this permit may be modified, suspended, or revoked, in whole or in part, and the Department may, in addition, institute appropriate legal proceedings.

3. This permit does not give any property rights, either in real estate or material, nor any exclusive privileges, nor shall it be construed to grant or confer any right, title, easement, or interest in, to, or over any land belonging to the Commonwealth of Pennsylvania; neither does it authorize any injury to private property or invasion of private rights, nor any infringement of Federal, State, or Local laws or regulations; nor does it obviate the necessity of obtaining Federal assent when necessary.

4. The work shall, at all times, be subject to supervision and inspection by representatives of the Department, and no changes in the maps, plans, profiles, and specifications as approved shall be made except with the written consent of the Department. The Department, however, reserves the right to require such changes or modifications in the maps, plans, profiles, and specifications as may be considered necessary. The Department further reserves the right to suspend or revoke this permit if in its opinion the best interest of the Commonwealth will be subserved thereby.

5. This permit authorizes the construction, operation, maintenance, and normal repair of the permitted structures conducted within the original specifications for the water obstruction or encroachment, and in accordance with the regulations of the Department and terms and conditions of this permit. Any repairs or maintenance involving modifications of the water obstruction or encroachment from its original specifications, and any repairs or reconstruction involving a substantial portion of the structure as defined by regulations of the Department shall require the prior written approval and permit of the Department.

6. Waste materials, scrap, or excess construction materials may not be disposed of in any watercourse, floodway or body of water, but shall be collected, stored, and disposed of in accordance with the Solid Waste Management Act (35 P.S. §§ 6018.101–6018.1003), the Municipal Waste, Planning, Recycling and Waste Reduction Act (53 P.S. §§ 4000.101–4000.1904), the Clean Streams Law (35 P.S. §§ 691.1–691.1001) and related rules and regulations.

7. There shall be no unreasonable interference with the free discharge of the river or stream or navigation during construction.

8. If, in the future, the Department determines that the water obstruction or encroachment causes unreasonable obstruction to the free passage of floodwaters or navigation, the permittee shall, upon due notice remove or alter the water obstruction or encroachment, without expense to the Commonwealth of Pennsylvania,, so as to increase the flood carrying capacity of the channel or render navigation reasonably free, easy, and unobstructed, in such manner as the Department may require. No claim shall be made against the Commonwealth of Pennsylvania on account of any such removal or alteration.

9. The permittee shall notify the Department, in writing, of the proposed time for commencement of work at least 15 days prior to the commencement of construction.

10. If construction work has not been completed within the time specified in the permit and the time limit specified in the permit has not been extended, in writing, by the Department or if a permit has been revoked for any reason, the permittee shall, at his own expense and in a manner that the Department may prescribe, remove all or any portion of the work as the Department requires and restore the water course and floodplain to their former condition.

11. The permittee shall fully inform the engineer or contractor, responsible for the supervision and conduct of work, of the terms, conditions, restrictions, and covenants of this permit. Prior to the commencement of construction, the permittee shall file with the Department in writing, on a form provided by the Department, a statement signed by the permittee and an individual responsible for the supervision or conduct of the construction work acknowledging and accepting the general and special conditions contained in the permit. Unless the acknowledgment and acceptance have been filed, the permit is void. A copy of the permit and the acknowledgment shall be available at the work site for inspection upon request by an officer or agent of the Department or another Federal, State, County, or Municipal Agency.

12. The permittee shall operate and maintain the structure or work authorized herein in a safe condition in accordance with the permit terms and conditions and the approved maps, plans, profiles, and specifications.

13. This permit may not be transferred without prior written approval from the Department, such approval being considered upon receipt of the properly executed "Application of Transfer of Permit" form.

14. If and when the permittee desires to discontinue use or abandon the activity authorized herein, he must remove all or part of the structure or work authorized and take other actions as are necessary to protect safety and the environment in accordance with a permit issued by the Department.

15. If the use of explosives in any waterways is required, the permittee shall secure the prior written permit from the Pennsylvania Fish and Boat Commission, pursuant to the Pennsylvania Fish and Boat Code, Act 1980-175 Title 30 Pennsylvania Consolidated Statutes, Section 2906. Requests should be directed to the Pennsylvania Fish and Boat Commission, Division of Environmental Services, 450 Robinson Lane, Bellefonte, Pennsylvania 16823-9616, Telephone: 814.359.5140.

16. Permittee shall implement and monitor the Erosion and Sedimentation Control Plan prepared in accordance with Chapter 102,, so as to minimize erosion and prevent excessive sedimentation into the receiving watercourse or body of water.

17. The project site shall, at all times, be available for inspection by authorized officers and employees of the Pennsylvania Fish and Boat Commission. Prior to commencement and upon completion of the work authorized by this permit, the permittee shall notify the Pennsylvania Fish and Boat Commission's Southeast Regional Office, P.O. Box 8, Elm, Pennsylvania 17521, Telephone: 717.626.0228.

18. The project site shall, at all times, be available for inspection by authorized officers and employees of the County Conservation District. Prior to commencement and upon completion of the work authorized by this permit, the permittee shall notify the following:

Chester County Conservation District
688 Unionville Road
Suite 200
Kennett Square, PA 19348
Telephone: 610.925.4920

SPECIAL CONDITIONS

A. Since the stream adjacent to the location of wetland encroachment is a wild trout stream, no work shall be done in the stream channel between October 1 and December 31 without prior approval from the Division of Environmental Services of the Pennsylvania Fish and Boat Commission.

B. Replacement wetlands shall be monitored for at least five years to ensure 85 percent survival of indigenous plantings and the elimination of invasive plants. Replacement wetlands shall be considered successful when they meet the design objectives as stated in the approved wetland replacement plan.

Reports shall be submitted to the Department every six months for the first two years after replacement wetland construction and annually for three years thereafter. The monitoring reports shall contain information describing success of the site at the time of the inspection, an inventory of the surviving plant species, and percent aerial coverage; photographs of the replacement site with plans showing the location and orientation of each of the photographs; and a written plan to correct any deficiencies identified during the monitoring phase.

If wetlands constructed on the approved sites have not achieved design objectives within the monitoring period, remedial work shall be required. If at least 85 percent of the indigenous vegetative plantings do not survive, replanting shall be required as necessary to achieve that survival rate.

Maintenance shall include herbicide spraying and other methods of control to eliminate invasive species such as: Canada Thistle, Crown Vetch, Purple Loosestrife, Phragmites, Reed Canary Grass, and Japanese Hops.

Exclusionary fencing shall be maintained around Wetland E such that bog turtles cannot enter the construction area.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Joseph A. Feola
Southeast Regional Director

FEB 24 2012
Issue Date

Re 30 (joh12waw)025-3

Permit No. E15-820

Commonwealth of Pennsylvania
Department of Environmental Protection
Southeast Region – Field Operations
Watershed Management Program – Permits & Technical Services Section

ACKNOWLEDGEMENT OF NOTIFICATION OF PERMIT CONDITIONS

Project Location: S.R. 202, Sect. 300 Roadway Improvements (Section 330)

County: Chester

Township: East Whiteland Township

Gentleman:

Acknowledgement is made that I, Charles H. Davies, P.E. Assistant District Executive - Design
(Permittee name)

and George H. Dunnheimer, P.E. Assistant District Executive - Construction
(Name, address and telephone of individual responsible for supervision of work)

have been notified of and are familiar with the terms and conditions of Permit No. E15-820

issued to PennDOT Engineering District 6-0 (Permittee) giving its consent to Perform the following water obstruction (Work authorized as stated on permit)

and encroachment activities associated with the final Phase of the S.R. 0202-300 Improvement Project at Section 330. This section proposes to widen 2.5 miles of Route 202 between Route 30 (Exton Bypass) and the Valley Creek Bridge. An additional lane and shoulder in each direction will be added within the existing grass median. This section proposes to permanently impact approximately 0.047 acre of wetlands and temporarily impact 0.021 acre of wetlands. Also, approximately 232 linear feet of stream will be

(continued next page)

Return to:

Department of Environmental Protection
Southeast Region – Field Operations
Watershed Management Program – Permits & Technical Services Section
2 East Main Street
Norristown, PA 19401

SIGN HERE

(Permittee signature) February 29, 2012 (Date)

SIGN HERE

(Signature of individual responsible for supervision of work) February 29, 2012 (Date)

(FORMS)1

permanently impacted, and approximately 57 linear feet will be temporarily impacted.

1. To place fill and excavate in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 259+00 R (Malvern, PA, Quadrangle N:7.2 inches,W:11.2 inches, Latitude: 40°02'21 ",Longitude: 75°34'46"). Temporary floodplain impacts of 0.195 acre (8,491 sq ft), permanent floodplain impact of 0.063 acre (2,764 sq ft), and 116 cubic yards of fill is created to facilitate the construction for proposed Stormwater Detention Basin D-1.

2. An unnamed tributary to Valley Creek (EV) at Mainline Station 259+00 R (Malvern, PA, Quadrangle N:7.2 inches, W:11.2 inches, Latitude: 40°02'21 ",Longitude: 75°34'46"). Temporary stream impact of 34 linear feet and 0.007 acre is created as a result of the limit of disturbance for installing riprap associated with Stormwater Detention Basin D-1.

3. To place fill and excavate in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 261+00 R (Malvern, PA, Quadrangle N:7.2 inches, W:11.2 inches, Latitude: 40°02'22", Longitude: 75°34'42"). Temporary floodplain impacts of 0.858 acre (37,402 sq ft), permanent floodplain impact of 0.179 acre (7,783 sq ft), and 190 cubic yards of fill is created to facilitate the construction for proposed Stormwater Mitigation Site M-7 A.

4. To place fill in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 260+50 R (Malvern, PA, Quadrangle N:7.2 inches, W:11.2 inches, Latitude: 40°02'23", Longitude: 75°34'44"). A temporary impact of 0.016 acre (677 ft^2) of fill is created to facilitate the proposed placement of roadway embankment fill.

5. To place fill and excavate in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 263+00 L (Malvern, PA, Quadrangle N:7.4 inches, W:11.2 inches, Latitude: 40°02'26", Longitude: 75°34'43"). Temporary floodplain impacts of 0.201 acre (8,736 sq ft), permanent floodplain impact of 0.015 acre (674 ft^2), and 20 cubic yards of fill is created to facilitate the construction for proposed Stormwater Mitigation Site M-7.

6. An unnamed tributary to Valley Creek (EV) at Mainline Station 265+00 R&L (Malvern, PA, Quadrangle N:4.9 inches, W:7.4 inches, Latitude: 40°02'28", Longitude: 75°34'41 "). A permanent stream impact of 39 linear feet and 0.016 acre is created to facilitate the placement of rip rap at both ends of Culvert C-1.

7. To place fill and excavate in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 265+00 R&L (Malvern, PA, Quadrangle N:4.9 inches, W:7.4 inches, Latitude: 40°02'28", Longitude: 75°34'41"). A permanent floodplain impact of 0.002 acre (78 sq ft) and 9 cubic yards is created to facilitate the placement of rip rap at both ends of Culvert C-1.

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12. To place fill and excavate in the 100-year floodplain of the unnamed tributary to Valley Creek (EV) at Mainline Station 298+60 R (Malvern, PA, Quadrangle N:8.4 inches, W:9.4 inches, Latitude: 40°02'46", Longitude: 75°33'59"). Temporary floodplain impacts of 0.024 acre (1,066 sq ft) are created to facilitate the fill in the area of the Chester Valley Trail Culvert.

13. To place fill and impact a forested Wetland (B), which drains to Valley Creek (EV) at Mainline Station 321+00 L (Malvern, PA, Quadrangle N:6.2 inches, W:6.0 inches, Latitude: 40°03'05", Longitude: 75°33'51 "). A temporary wetland impact of 0.014 acre and permanent wetland impact of 0.024 acre are created to facilitate the proposed roadway fill.

14. To place fill and impact a forested/scrub-shrub Wetland (C), which drains to Valley Creek (EV) at Mainline Station 325+00 L (Malvern, PA, Quadrangle N:6.3 inches, W:5.9 inches, Latitude: 40°03'07", Longitude: 75°33'47"). A temporary wetland impact of 0.007 acre and permanent wetland impact of 0.023 acre are created to facilitate the proposed roadway fill.

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Permit No. E 15-820

Commonwealth of Pennsylvania
Department of Environmental Protection
Southeast Region – Field Operations
Watershed Management Program – Permits & Technical Services Section

WATER OBSTRUCTION AND ENCROACHMENT PERMIT COMPLETION REPORT

Project Location: S.R. 0202, Sect. 300 Roadway Improvements (Segment 330)

County: Chester

Township: East Whiteland Township

Gentleman:

I (We) hereby certify that the the following water obstruction and encroachment activities associated
(Work authorized by permit)

with the final Phase of the S.R. 0202-300 Improvement Project at Section 330. This section proposes to widen 2.5 miles of Route 202 between Route 30 (Exton Bypass) and the Valley Creek Bridge. An additional lane and shoulder in each direction will be added within the existing grass median.

(continued next page)

Was completed on _____ , in accordance with the plans approved and that all unauthorized obstruction have been removed.

Name: _____
(Type or printed)

Signature: _____

Title: _____

Firm: _____

Date: _____

Return to:

Department of Environmental Protection
Southeast Region – Field Operations
Watershed Management Program – Permits & Technical Services Section
2 East Main Street
Norristown, PA 19401

This section proposes to permanently impact approximately 0.047 acre of wetlands and temporarily impact 0.021 acre of wetlands. Also, approximately 232 linear feet of stream will be permanently impacted, and approximately 57 linear feet will be temporarily impacted.

1. To place fill and excavate in the 100-year floodplain of an unnamed tributary to Valley Creek (EV) at Mainline Station 259+00 R (Malvern, PA, Quadrangle N:7.2 inches,W:11.2 inches, Latitude: 40°02'21 ",Longitude: 75°34'46"). Temporary floodplain impacts of 0.195 acre (8,491 sq ft), permanent floodplain impact of 0.063 acre (2,764 sq ft), and 116 cubic yards of fill is created to facilitate the construction for proposed Stormwater Detention Basin D-1.

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15. To place fill and excavate in the 100-year floodplain of Valley Creek (EV) at Mainline Station 325+00 L (Malvern, PA, Quadrangle N:6.3 inches, W:5.9 inches, Latitude: 40°03'07", Longitude: 75°33'47"). Temporary floodplain impacts of 0.033 acre (1,430 ft^2), permanent floodplain impact of 0.085 acre (3,706 sq ft), and 25 cubic yards of fill are created to facilitate the proposed roadway fill in the area of Wetland C.

16. To place fill and excavate in the 100-year floodplain of Valley Creek (EV) at Mainline Station 325+60 L (Malvern, PA, Quadrangle N:9.6 inches, W:9.0 inches, Latitude: 40°03'09", Longitude: 75°33'47"). A temporary floodplain impact of 0.088 acre (3,834 ff) is created to facilitate the construction for proposed Stormwater Mitigation Site 4-1.

17. To place fill and excavate in the 100-year floodplain of Valley Creek (EV) at Mainline Station 341+00 L (Malvern, PA, Quadrangle N:9.5 inches, W:8.1 inches, Latitude: 40°03'06", 75°32'25"). Temporary floodplain impacts of 0.044 acre (1,951 ft^2), permanent floodplain impact of 0.077 acre (3,388 sq ft), and 260 cubic yards are created to facilitate the construction for proposed Stormwater Mitigation Site 20.

NOTICE OF APPEAL RIGHTS:

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717-787-3483) FOR MORE INFORMATION.

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHEAST REGIONAL OFFICE

May 25, 2012

Charles H. Davies
ADE Design – District 6-0
PA Department of Transportation
7000 Geerdes Boulevard
King of Prussia, PA 19406-1525

Re: NPDES Discharge for Stormwater Construction Activities
SR 202 Section 300 Roadway Improvement Project
No. PAI011505008-R2
East Whiteland Township
Chester County

Dear Mr. Davies:

Enclosed is the above-referenced permit which authorizes the discharge of stormwater from the construction activity described in the final erosion and sedimentation control plan and the permit application. Please contact the Chester County Conservation District to make arrangements to obtain your copy of the approved final erosion and sedimentation control plan. The plan must be fully implemented and available at the construction site. A pre-construction meeting must be scheduled with the District. Failure to do so may result in suspension of your permit.

Please read carefully Parts A, B, and C of the permit which detail the terms and conditions of this authorization. Conservation District's staff and/or representatives of the Department of Environmental Protection may inspect this earthmoving activity to determine compliance with applicable permit requirements, Chapters 92, 101, and 102 Rules and Regulations and the Clean Streams Law.

Permit requirements and federal regulations at 40 C.F.R. Section 122.21(b) require "when a facility or activity is owned by one person but is operated by another person, it is the operator's duty to obtain a permit." Please be advised that once a contractor has been selected for the project, the permit must either be transferred to the contractor or the contractor must be made a co-permittee. The enclosed form must be used to add a co-permittee.

Enclosed is a Notice of Termination form to complete and file when construction activities have ceased and final stabilization has been achieved.

CC: M. Faustov

This authorization does not relieve the applicant from applying for and obtaining any and all additional permits or approvals from local, state, or federal agencies for the construction activity.

If you have any questions, please contact me.

Sincerely,

Joseph A. Feola
Southeast Regional Director

Enclosure

cc: Chester County Conservation District
East Whiteland Township
Mr. Mellman, Michael Baker Jr., Inc.
Ms. Damerau – Stormwater Permits Section
Re 30 (SM2)

3930-PM-WM0470 Rev. 10/2005

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED MANAGEMENT

APPROVAL OF COVERAGE UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) INDIVIDUAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

NPDES PERMIT NO.: PAI011505008-R2 PRIMARY FACILITY ID: 664083

AUTHORIZATION NO.: 581182 SUBFACILITY ID: 845176

APS NO.: 544524

SITE/PROJECT NAME AND ADDRESS		PERMITTEE NAME AND ADDRESS	
NAME:	SR 202 Section 300 Roadway Improvement Project	NAME:	PA Department of Transportation
SITE ID:	650435	CLIENT ID:	62189
ADDRESS:	Between Rt 30 (Exton Bypass and and North Valley road East Whiteland Township, PA	ADDRESS:	7000 Geerdes Boulevard King of Prussia, PA 19406-1525
MUNICIPALITY:	East Whiteland Township		
COUNTY:	Chester		

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Sections 1251 et seq. (the "Act") and Pennsylvania's Clean Streams Law, as amended, 35 P.S. Sections 691.1 et seq., the Department of Environmental Protection (Department) hereby approves the discharge of stormwater to the following surface water(s) Valley Creek/Little Valley Creek.

from a: ☐ 1-acre to less than 5-acre project with a point source **(or)** X 5-acre or larger project

subject to all effluent limitations, monitoring and reporting requirements and other terms, conditions, criteria, and special requirements for the discharge of stormwater from sources composed entirely of stormwater associated, in whole or in part, with construction activity, as defined in this permit, to surface waters of the Commonwealth, including municipal separate storm sewers and nonmunicipal separate storm sewer.

APPROVAL TO DISCHARGE IN ACCORDANCE WITH THE TERMS AND CONDITIONS HEREIN MAY COMMENCE ON THE DATE OF THE APPROVAL OF COVERAGE, AND IS VAILD FOR A PERIOD OF FIVE YEARS WHEN CONDUCTED PURSUANT TO SUCH TERMS AND CONDITIONS. COVERAGE MAY BE EXTENDED BY THE DEPARTMENT IF A TIMELY ADMINISTRATIVELY COMPLETE AND ACCEPTABLE PERMIT RENEWAL IS SUBMITTED TO THE DEPARTMENT AT LEAST 180 DAYS PRIOR TO DATE OF COVERAGE TERMINATION, UNLESS PERMISSION FOR SUBMISSION AT A LATER DATE HAS BEEN GRANTED BY THE DEPARTMENT. THE PERMIT MAY BE TERMINATED PRIOR TO THE EXPIRATION DATE UPON NOTICE TO AND APPROVAL BY THE DEPARTMENT. NO CONDITION OF THIS PERMIT SHALL RELEASE THE PERMITTEE OR CO-PERMITTEE FROM ANY RESPONSIBILITY OR REQUIREMENT UNDER PENNSYLVANIA, OR FEDERAL ENVIRONMENTAL STATUTES AND REGULATIONS, OR LOCAL ORDINANCES.

APPROVAL DATE: May 25, 2012 **EXPIRATION DATE:** May 25, 2017

AUTHORIZED BY: Joseph A. Feola

Joseph A. Feola
Southeast Regional Director

Re 30 (SM1)

SPECIAL CONDITION(s)

1. This permit incorporates by reference the application and any other attachments, reports, plans, plan drawings, supplements, and other materials submitted by the applicant in support of its application.

2. A Notice of Termination (NOT) will be required to be submitted following approval of the final as-built plans. Prior to accepting the NOT, the Department and/or Conservation District will perform a final inspection to ensure site stabilization and verify adequate installation and function of stormwater best management practices (BMPs).

3. As-built plans of the stormwater BMPs for each project phase shall be provided within six months following the completion of each phase. The as-built plans shall be signed and sealed by a PA Registered Professional Engineer.

4. The permittee shall provide engineering construction oversight for the proposed stormwater BMPs. Additional soil testing may be required prior to the installation of infiltration BMPs to ensure proper location and function.

5. This permit may be modified, suspended, revoked, reissued, or terminated during its term for any of the causes specified in 25 Pa. Code Chapters 92 and 102, or to require compliance with updated Effluent Limitation Guidelines, impaired water listings, or new TMDLs.

6. A pre-construction meeting with the Chester County Conservation District is to be held ten days prior to the start of construction. A second pre-construction meeting is to be held prior to disturbance in the stream buffer.

7. The permittee will notify the Department seven (7) days prior to the pre-construction meeting with the District.

8. The permittee will notify the Department at least five (5) days prior to the installation of all proposed stormwater best management practices (BMPs) and verify whether the Department will require an inspection.

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PART A

EFFLUENT LIMITATIONS, MONITORING, REPORTING AND RECORD KEEPING REQUIREMENTS AND PROHIBITIONS

1. EFFLUENT LIMITATIONS

a. Best Management Practices (BMPs)

Effluent limitations are established in this permit as Erosion and Sediment Control (E&S) Plans, Preparedness, Prevention, and Contingency (PPC) Plans, and other stormwater Best Management Practices (BMPs) which restrict the quantity and rate of accelerated erosion and the resulting sediment discharge to the Commonwealth. When necessary, specific narrative numeric effluent limits, are set forth in Appendix A, or other special conditions have been incorporated to assure that existing and designated uses of water of the Commonwealth will be maintained and protected from degradation.

b. Applicable Effluent Limitations

All stormwater discharges associated with construction activities must comply with applicable effluent limitations established in 25 Pa. Code Chapters 91-97, 102 and 105.

c. Water Quality Based Effluent Limitations

Water quality based effluent limitations shall be imposed under applicable state and federal law when necessary to ensure that the water quality standards of the receiving water are attained. Discharges of stormwater associated with a construction activity shall not result in a violation of the water quality standards.

d. Discharges

All discharges authorized by this NPDES permit shall be consistent with the terms and conditions of the permit.

2. MONITORING AND REPORTING

a. Visual Inspections

The permittee and co-permittee must ensure that visual site inspections are conducted on at least a weekly basis, and after each measurable precipitation event to ascertain that the E&S BMPs are operational and effective in preventing pollution to the waters of the Commonwealth. Site inspection must be conducted by qualified personnel, trained and experienced in erosion and sediment control. An NPDES Stormwater Construction Permit Inspection Log or other written report of each inspection shall be kept, and include:

(1) The date, time, project information, weather conditions and the name of the person conducting the inspection.

(2) A summary of site conditions, BMP's, corrective actions taken and compliance.

In the event the permittee or co-permittee is required to monitor stormwater discharge outfalls regulated under this permit, all monitoring data shall be reported in accordance with Part A.2.e. of this permit.

The Department and authorized County Conservation District, reserve the right to enter onto the site to conduct monitoring or require monitoring where necessary in appropriate circumstances such as where a danger of water pollution is present, or water pollution is suspected to be occurring from a construction activity subject to this permit. The permittee or co-permittee shall commence such monitoring upon notification from the Department or authorized County Conservation District.

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

b. Non-compliance Reporting

Where E&S BMP's are found to be inoperative or ineffective during an inspection, or any other time, the permittee and co-permittee shall immediately contact the Department or authorized County Conservation District, by phone or personal contact, followed by the submission of a written report within 5 days of the initial contact. Non-compliance reports shall include the following information:

(1) Any condition on the project site which may endanger public health, safety, or the environment, or involve incidents which cause or threaten pollution.

(2) The period of non-compliance, including exact dates and times and/or anticipated time when the activity will return to compliance.

(3) Steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

(4) The date or schedule of dates, and identifying remedies for correcting non-compliance conditions.

c. Supplemental Monitoring

The Department, and the authorized County Conservation District reserve the right to require additional monitoring where a danger of water pollution is present, or water pollution is suspected to be occurring from a construction activity subject to this permit. The permittee or co-permittee shall commence monitoring upon notification from the Department, or the authorized County Conservation District.

d. Test Procedures

Unless otherwise specified in this permit, the test procedures for the analysis of pollutants shall be those contained in 40 C.F.R. Part 136, alternate test procedures approved pursuant to that part, or other alternate procedures approved by the Department.

e. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee or co-permittee shall record the following information:

(1) The exact place, date and time of sampling or measurements.

(2) The person(s) who performed the sampling or measurements.

(3) The dates the analyses were performed.

(4) The person(s) who performed the analyses.

(5) The analytical techniques or methods used.

(6) The results of such analyses.

f. Availability of Reports.

Except for data determined to be confidential under §607 of the Clean Streams Law, all reports and other information prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate Department Regional Office or authorized County Conservation District.

3. PROHIBITIONS

If a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under §307(a) of the Federal Clean Water Act (CWA) for a toxic pollutant which is present in the permittee's or co-permittee's discharge, and such standard or prohibition is more stringent than any limitation upon such pollutant in the NPDES permit, the Department shall revise or modify the permit in accordance with the toxic effluent standard or prohibition and so notify the permittee or co-permittee. In the absence of a departmental action to modify or to revoke and reissue this permit, the toxic effluent standard or prohibition established under §307(a) of the CWA is considered to be effective and enforceable against the permittee or co-permittee.

4. RECORD KEEPING

a. Retention of Records

The permittee or co-permittee shall retain records of all monitoring activities and results including all calibration and maintenance records, copies of all reports required by the permit, and records of all data used to complete the application for this permit, for a period of three years from the date of the termination of coverage under this permit. This period may be extended by request of the Department, or an authorized County Conservation District.

b. Reporting of Monitoring Results

In the event monitoring of outfalls is conducted, monitoring results shall be summarized on a Discharge Monitoring Report Form (DMR) and submitted to the Department on an annual basis, postmarked no later than January 31st of each year following the monitoring. If the construction activity is terminated (see condition 4 in the permit cover sheet) prior to the 31st of that year, the DMR should be submitted no later than one month following the date of the termination. (DMR forms can be obtained from the appropriate regional office of the Department). A signed copy of the DMR form and all other reports required herein, shall be submitted to the Department's regional offices that authorized this permit.

5. DISCHARGES CONSISTENT WITH TERMS AND CONDITIONS OF THE PERMIT

All discharges authorized by this NPDES permit shall be consistent with the terms and conditions of this permit.

PART B

STANDARD CONDITIONS

1. MANAGEMENT REQUIREMENTS

a. Permit Modification, Termination, or Revocation and Reissuance

(1) This permit may be modified, suspended, revoked and reissued, or terminated during its term for any of the causes specified in 25 Pa. Code Chapters 91, 92, 93, 95, 96, 97, 102 or 105 including but not limited to, the following.

(a) Violation of any terms or conditions of the permit.

(b) Obtaining a permit by misrepresentation or failure to discuss fully all relevant facts.

(c) A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.

(2) The filing of a request by the permittee or co-permittee for a permit or coverage modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated non-compliance, does not stay any permit condition.

(3) Permit modification or revocation will be conducted according to 25 Pa. Code Chapters 92 or 102.

b. Duty to Provide Information

(1) The permittee or co-permittee shall furnish to the Department, or the authorized County Conservation District within 30 days of the date of request, any information that the Department or authorized County Conservation District may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or coverage approved under this permit, or to determine compliance with this permit.

(2) The permittee or co-permittee shall furnish, upon request, to the Department, or the authorized County Conservation District, copies of records required by this permit.

(3) When the permittee or co-permittee becomes aware that they failed to submit any relevant facts or submitted incorrect information in the permit application, GIF, PPC Plan, E&S Plan, PCSM Plan or in any other report to the Department, or the authorized County Conservation District, the permittee or co-permittee shall promptly submit or correct such facts or information.

(4) The permittee or co-permittee shall give seven calendar days advance notice to the Department, or the authorized County Conservation District, of any planned physical alterations or additions to the permitted facility which could, in any way, substantially affect the quality and/or quantity of stormwater discharged from the activity.

c. Signatory Requirements

Documents required, submitted, or maintained under this permit shall be signed in accordance with the following:

(1) Applications, Transferee/Co-permittee Form, and Notices of Termination.

(a) Corporations: (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (2) the manager of one or more manufacturing, production or operating facilities, if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(b) Partnerships or sole proprietorships: a general partner or the proprietor, respectively.

(c) Municipalities, State, Federal, or other public agencies: either a principal executive officer or ranking elected official; (1) the chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

(2) All reports, plans, documents, and other information required by the permit or requested by the Department, or the authorized County Conservation District, shall be signed by the permittee or co-permittee, or by a duly authorized representative of the permittee or co-permittee.

(3) If there is a change in the duly authorized representative of the permittee or co-permittee, respectively, the permittee or co-permittee shall notify the Department, or an authorized County Conservation District within 30 days of the change.

d. Transfer of Ownership or Control

(1) This permit is not transferable to any person except after notice to the Department, or authorized County Conservation District.

(a) In the event of any pending change in control or ownership of facilities from which the authorized discharges emanate, the permittee or co-permittee shall notify the Department, or the authorized County Conservation District, using the form entitled "Transferee/Co-permittee Application" for a General or Individual NPDES Permit for Stormwater Discharges Associated with Construction Activities (Transfer/Co-permittee Application) of such pending change at least 30 days prior to the change in ownership or control.

(b) The Transferee/Co-permittee Application form shall be accompanied by a written agreement between the existing permittee and the new owner or operator stating that the existing permittee shall be liable for violations of the permit up to and until the date of coverage transfer and that the new owner or operator shall be jointly and individually liable for permit violations under the permit from that date on.

(c) After receipt of the required documentation, the Department, or the authorized County Conservation District, shall notify the existing permittee and the new owner or controller of its decision concerning approval of the transfer. Such requests shall be deemed approved unless the Department, or the authorized County Conservation District, notifies the applicant otherwise within 30 days.

(2) For purposes of this permit, operators shall include general contractors. If, prior to construction activities, the owner is the permittee and an operator/general contractor is later identified to become a co-permittee, the owner shall:

(a) Notify the Department, or the authorized County Conservation District, by submitting an administratively complete and acceptable Transferee/Co-permittee Application form.

(b) After receipt of the documentation described in (a) above, the permit will be considered modified by the Department. For purposes of this permit, this modification is considered to be a minor permit modification.

(c) Monitoring reports and any other information requested under this permit should reflect all changes to the permittee and the co-permittee name.

e. Removed Substances

Solids, sediments and other pollutants removed in the course of treatment or control of stormwater shall be disposed in accordance with federal and state law and regulations in order to prevent any pollutant in such materials from adversely affecting the environment.

f. BMP Implementation and Maintenance

The permittee and co-permittee shall at all times properly implement all BMPs which are installed or used by the permittee or co-permittee as efficiently as possible to achieve compliance with the conditions of this permit and with the E&S Plan, PPC Plan and PCSM Plan. Proper implementation and maintenance includes, but is not limited to, effective performance, based on designed BMP capabilities, adequate staffing and training, and adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the implementation of additional or alternative and at all times operate and maintain BMP's, including PPC Plans, E&S Plans, and any other stormwater pollution prevention and management measures.

g. Reduction Loss, or Failure of BMPs

Upon reduction, loss or failure of any BMP, immediate action to restore, repair or replace the BMP or provide an alternative BMP, the permittee or co-permittee shall be taken to ensure that there are no pollution discharges to the waters of the Commonwealth. This requirement is applicable in situations where the BMP is rendered ineffective, whether the cause or source of the reduction, loss or failure is within or beyond the control of the permittee or co-permittee.

h. **Adverse Impact**

The permittee and co-permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health, safety, or the environment.

i. **Reduction, Loss, or Failure of the BMPs**

Upon reduction, loss or failure of the BMPs, the permittee and co-permittee shall take immediate action to restore the BMPs or provide an alternative method of treatment.

j. **Termination of Coverage**

When all stormwater discharges associated with construction activity that are authorized by this permit are eliminated, the permittee or co-permittee of the facility must submit a Notice of Termination (NOT) form that is signed in accordance with Part B.1.c. (Signatory Requirements) of this permit. All NOTs certifying discharge termination are to be sent to the Department, or the authorized County Conservation District.

2. RESPONSIBILITIES

a. **Duty to Comply**

The permittee and co-permittee must comply with all terms and conditions of this general permit. Any permit non-compliance constitutes a violation of the Pennsylvania Clean Streams Law and the federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit or permit renewal.

b. **Penalties for Violations of Permit Conditions, Falsification of Report or Other Document**

Any person who violates a permit condition, fails to take corrective action to abate violations or falsifies reports or other documents subjects that person to administrative, civil, and/or criminal penalties or other appropriate action pursuant to under Section 602 and 605 of the Clean Streams Law, 35 P.S. Sections 691.602 and 691.605, and under the Clean Water Act as specified in 40 C.F.R. Sections 122.41(a)(2) and (3), which are incorporated by reference.

c. **Need to Halt or Reduce Activity Not a Defense**

The permittee or co-permittee may not use as a defense in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit.

d. **Property Rights**

This permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

e. **Severability**

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

f. **Other Laws**

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee or co-permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable Pennsylvania law or regulation under authority preserved by Section 510 of the Clean Water Act, 33 U.S.C. §1361, or under Section 311 of the Clean Water Act 33 U.S.C. §1321.

g. **Right of Entry**

Pursuant to Sections 5(b) and 305 of the Pennsylvania Clean Streams Law (35 P.S. §§691.5(b) and 691.305) and 25 Pa. Code Chapter 92, and §1917-A of the Administrative Code, the permittee or co-permittee shall allow the head of the Department, the EPA Regional Administrator, and/or an authorized representative of the Department, EPA, County Conservation District or, in the case of a facility which discharges to a municipal separate storm sewer, an authorized representative of the municipal operator or the separate storm sewer receiving the discharge, upon the presentation of credentials and other documents, as may be required by law, to:

(1) Enter upon the premises where a regulated facility or activity is located or conducted or where records must be kept under the conditions of this permit.

(2) At any reasonable time, have access to and copy any records that must be kept under the terms and conditions of this permit; inspect any facilities or equipment (including monitoring and control equipment) and sample any substances or discharge at any location.

3. DEFINITIONS

Authorized County Conservation District - For purposes of this permit, shall generally mean the local County Conservation District that has entered into a delegation agreement with the Department to administer and enforce the NPDES Permit for Stormwater Discharges Associated with Construction Activities Program. The Department retains program administration and enforcement if the local County Conservation District is not delegated.

Best Management Practices (BMPs) – Activities, facilities, measures, or procedures used to protect, maintain, reclaim and restore the quality of waters, and existing and designated uses within this Commonwealth. BMPs include PPC Plans, E&S Plans, PCSM Plans, Stormwater Management Act Plans and other treatment requirements, operating procedures, and practices to control project site runoff, spillage or leaks, and other drainage from the construction activity.

Co-Permittee – A discharger of stormwater associated with construction activity who is jointly and individually responsible for compliance with all conditions of a permit and applicable laws with another entity for discharges to surface waters of the Commonwealth from their construction activity. Each co-permittee shall only be responsible for stormwater discharges from activities owned and/or operated by such co-permittee.

Department – The Department of Environmental Protection (DEP) of the Commonwealth.

Director – The Director of the Bureau of Watershed Management, or any authorized employee thereof.

Erosion and Sediment Control Plan (E&S Plan) - A site-specific plan that meets the requirements of Title 25, Chapter 102 and minimizes accelerated erosion and sedimentation.

Municipality – Any county, city, borough, town, township, school district, institution or any authority created by one or more of the foregoing.

Operator - The person with oversight responsibility of earth disturbance activity on a project site for a portion thereof who has the ability to make modifications to the Erosion and Sediment Control Plan or site specifications; or day-to-day operational control over earth disturbance activity on a project site or a portion thereof to ensure compliance with the Erosion and Sediment Control Plan.

Owner - A person who holds legal title to the land subject to construction activity. This term also includes the person(s) who held legal title to the land subject to construction activity at the time such activity was commenced on a site.

Person – Any operator, natural person, partnership, association, corporation, or any agency, instrumentality or entity of Federal or State Government. Whenever used in any clause prescribing and imposing a penalty, or imposing a fine or imprisonment or both, the term "person" shall not exclude the members of an association and the directors, officers, or agents of a corporation.

Preparedness, Prevention and Contingency Plan (PPC Plan) – A written plan that identifies an emergency response program, material and waste inventory, spill and leak prevention and response, inspection program, housekeeping program, security and external factors, developed and implemented at the construction site to control potential discharges of pollutants other than sediment into waters of the Commonwealth. Potential pollutants at construction activities can include, but are not limited to pesticides, fertilizers, lime, petrochemicals, construction-related chemicals and solvents, wastewater, wash water, core drilling wastewater, cement, sanitary wastes or hazardous wastes.

Post Construction Stormwater Management Plan (PCSM Plan) – A site specific plan identifying BMPs to manage stormwater runoff after construction activities have ended and the project site permanently stabilized to protect and maintain existing and designated uses. The PCSM Plan must contain a written narrative, including calculations or measurements, and justifications for each BMP. The BMPs should be designed to maximize infiltration technologies, minimize point source discharges to surface waters, preserve the integrity of stream channels, and protect the physical, biological and chemical qualities of the receiving water.

Runoff Coefficient – The fraction of total rainfall that will appear at the conveyance as runoff.

Stabilization – the proper placing, grading, constructing, reinforcing, lining, and covering of soil, rock or earth to insure its resistance to erosion, sliding or other movement.

Stormwater – Stormwater runoff, snow melt runoff, and surface runoff and drainage.

Stormwater Associated with Construction Activity – The discharge into waters of the Commonwealth, municipal separate storm sewers, or non-municipal separate storm sewers from any conveyance which is used for collecting and conveying stormwater and which is related to construction activities. Construction activities include clearing, grading, and excavation activities of 1 acre or greater including those activities of less than one acre of total land area that are part of a larger common plan of development or sales. The term does not include stormwater discharges from silvicultural, agricultural, or road maintenance activities.

Surface Waters of the Commonwealth – Any and all rivers, streams, creeks, rivulets, impoundments, ditches, water courses, storm sewers, lakes, dammed water, ponds, springs, wetlands and all other bodies or channels of conveyance of surface water, or parts thereof, whether natural or artificial, within or on the boundaries of this Commonwealth.

Wetlands – Areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions, including swamps, marshes, bogs and similar areas.

PART C

OTHER CONDITIONS

1. PROHIBITION OF NON-STORMWATER DISCHARGES

All discharges covered by this permit shall be composed entirely of stormwater, unless discharges of material other than stormwater are in compliance with another NPDES discharge permit (other than this permit) issued for the discharge. Discharge of sewage or industrial waste (other than sediment under this permit) to an erosion and sediment control BMP is not permitted.

The permittee or co-permittee may not discharge floating materials, oil, grease, scum, foam, sheen and substances which produce odor, taste, turbidity, or settle to form deposits in concentrations or amounts sufficient to be, or create a danger of being, inimical to the water uses to be protected or to human, animal, plant or aquatic life.

2. EROSION AND SEDIMENT CONTROL PLANS

a. An E&S Plan, must be prepared, developed, and implemented for each activity covered by this permit in accordance with the Department's Chapter 102 Rules and Regulations, and Department guidance. Each E&S plan must be submitted to the Department or authorized County Conservation District. The BMPs shall be designed to minimize the potential for accelerated erosion and sedimentation in order to protect, maintain, reclaim and restore water quality and existing and designated uses. Various BMPs and their design standards are listed in the Erosion and Sediment Pollution Control Program Manual (#363-2134-008). The manual is available from the Department or Authorized County Conservation District, or can be downloaded from the Department website www.dep.state.pa.us. E&S Plans, BMPs, and revisions thereto, which meet the requirements of 25 Pa. Code Chapter 102 are conditions of this permit and incorporated by reference.

b. E&S Plans required under this permit are considered reports that shall be available to the public under Section 607 of the Clean Streams Law, and 25 Pa. Code, Chapter 92 of the Department's regulations. The owner or operator of a facility with stormwater discharges covered by this permit shall make E&S Plans available to the public upon request. E&S Plans must be made available at the site of the construction activity at all times.

c. The staging of earth disturbance activities and maintenance requirements contained in the E&S Plan must be followed.

3. RECYCLING AND DISPOSAL OF BUILDING MATERIALS AND WASTES

All building materials and wastes must be removed from the site and recycled or disposed in accordance with the Department's Solid Waste Management Regulations at 25 Pa. Code §260.1 *et seq.*, §271.1 *et seq.*, and §287.1 *et seq*. No building material or wastes or unused building materials shall be burned, buried, dumped, or discharged at the site.

4. PREPAREDNESS, PREVENTION AND CONTINGENCY PLANS

If the potential exists for causing accidental pollution of air, land, or water, or for causing endangerment of public health and safety through accidental release of toxic, hazardous, or other polluting materials, the permittee or co-permittee must develop a Preparedness, Prevention, and Contingency (PPC) Plan. The PPC Plan shall be developed in accordance with Department regulations. The PPC Plan shall identify areas which may include, but are not limited to, waste management areas, raw material storage areas, temporary and permanent spoils storage areas, maintenance areas, and any other areas that may have the potential to cause non-compliance with the terms and conditions of this permit due to the storage, handling, or disposal of any toxic or hazardous substances such as oil, gasoline, pesticides, herbicides, solvents, etc. BMPs shall be developed and implemented for each identified area. The PPC Plan shall be maintained on site at all times and shall be made available for review at the Department's or authorized County Conservation District's request.

5. POST CONSTRUCTION STORMWATER MANAGEMENT PLANS

A PCSM Plan that identifies the BMPs to be installed to manage and treat the stormwater discharge to protect water quality after construction must be prepared and implemented. Such BMPs should be designed to maximize groundwater infiltration, to protect the structural integrity of the stream, and to protect and maintain existing and designated uses. In addition, some counties have adopted Act 167 Stormwater Management Plans that incorporate measures to protect and maintain existing uses and protect and maintain water quality to maintain those existing uses. In areas where plans exist and are supported by local ordinances, the applicant must design the PCSM Plan in accordance with these ordinances. Permittees and co-permittees are responsible for proper installation of the PCSM Plan BMPs prior to the submission of the notice of termination to this permit.

6. PRE-CONSTRUCTION CONFERENCES

The permittee or co-permittee shall contact the Department or an authorized County Conservation District at least seven days before construction is to begin to determine if a pre-construction conference is required. The permittee, co-permittee and others undertaking the earth disturbance activity must attend a pre-construction conference if requested by the Department or an authorized County Conservation District.

7. SPOIL OR BORROW AREA

An E&S Plan shall be submitted to the Department or an authorized County Conservation District for review and approval for all spoil and borrow areas, regardless of their location. All spoil and borrow areas shall be subject to the requirements contained in this permit.

8. PHASED PROJECTS

Prior to the commencement of earth disturbance activities for subsequent phases of the project, the permittee or co-permittee shall submit an E&S Plan and PCSM Plan, for each subsequent phase of the project for review and authorization by the Department or authorized County Conservation District.

Coverage under this permit is only granted for those phases or portions of a project for which an E&S Plan and PCSM Plan, and PPC Plan has been submitted to, reviewed and authorized by the Department or an authorized County Conservation District.

9. CLARIFICATION ASSISTANCE

The permittee or co-permittee shall contact the Department or an authorized County Conservation District for clarification of any requirements contained in this document, E&S Plan, PCSM Plan, PPC Plan, or other documents related to this permit.

10. WETLAND PROTECTION

If hydric soils or other site conditions indicate that wetlands are present, a wetland determination must be conducted in accordance with Department procedures. All wetlands must be identified on the E&S Plan and PCSM Plan.

APPENDIX A

The following numeric effluent limits or other special conditions are incorporated as terms and conditions with this permit authorization.

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED MANAGEMENT

OFFICIAL USE ONLY
PA _____

TRANSFEREE/CO-PERMITTEE APPLICATION FOR A GENERAL OR INDIVIDUAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

TYPE OR PRINT IN BLOCK LETTERS

A. PERMIT INFORMATION

☐ Check here if applying for permit transfer. ☐ Check here if applying to be added as a co-permittee.

GENERAL OR INDIVIDUAL NPDES PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES FOR WHICH APPLYING AS TRANSFEREE/CO-PERMITTEE.

PERMIT NO.: _____ DATE ISSUED: _____

B. CURRENT PERMITTEE INFORMATION

DEP Client ID# (if known) Applicant Type / Code (if known)

Organization Name or Registered Fictitious Name Employer ID# (EIN) Contact Person

Individual Last Name First Name MI Suffix SSN

Additional Individual Last Name First Name MI Suffix SSN

Mailing Address Street

City State ZIP+4 County Phone

C. SITE INFORMATION

DEP Site ID# (if known) Site Name

DEVELOPMENT NAME (IF APPLICABLE):

SITE ADDRESS/LOCATION:

COUNTY: _____ MUNICIPALITY: _____

DATE OF TRANSFER OF PERMIT RESPONSIBILITY, COVERAGE AND LIABILITY: _____, 20____

CO-PERMITTEE/TRANSFEREE AGREEMENT: Attach a written agreement signed by all parties involved with the change of operational control. The letter should provide a specific date (not less than 30 days after the date this application is submitted) for the transfer or sharing of permit responsibility, coverage, and liability between the current and new permittee/co-permittee. A SAMPLE Co-Permittee Agreement letter and a SAMPLE Transferee Agreement letter are attached for reference.

D. TRANSFEREE/CO-PERMITTEE INFORMATION

DEP Client ID# (if known) | Applicant Type / Code (if known)

Organization Name or Registered Fictitious Name | Employer ID# (EIN) | Contact Person

Individual Last Name | First Name | MI | Suffix | SSN

Additional Individual Last Name | First Name | MI | Suffix | SSN

Mailing Address Street

City | State | ZIP+4 | County | Phone

E. COMPLIANCE REVIEW

Yes ☐ No ☐ Does the applicant (owner and/or operator) have or require other environmental permits issued by the Department for this project? If yes, list each permit and the compliance history of the permitted facility or operation.

Permit Program: _____

Permit Number: _____

Brief Description: _____

Compliance History: _____

If the applicant is not in compliance with any environmental law or regulation, or Department permit, order or schedule of compliance, or has failed and continues to fail to comply, or has shown a lack of ability or intent to comply with environmental laws or regulations or any Department permit, order, or schedule of compliance, as indicated by past or continuing violations, provide a narrative description of how the applicant will achieve compliance including the appropriate milestones.

F. CERTIFICATION AND SIGNATURE OF APPLICANT

Applicant Certification

I certify under penalty of law that this application and all related attachments were prepared by me or under my direction or supervision by qualified personnel to properly gather and evaluate the information submitted. Based on my own knowledge and on inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. The responsible official's signature also verifies that the activity is eligible to participate in the General or Individual NPDES Permit, and BMP's and other controls are or will be implemented to ensure that water quality standards and effluent limits are attained. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment or both for knowing violations.

_____
Print Name and Title of Person Signing

(____) _____
Telephone Number of Person Signing

NOTARY SEAL

_____
Signature of Applicant

_____
Date of Application Signed

Notarization:

Sworn to and Subscribed to Before Me This

_____ Day of _____, 20_____

_____
Notary Public

Commonwealth of Pennsylvania

County of _____

My Commission Expires: _____

CO-PERMITTEE AGREEMENT
ASSUMPTION OF RESPONSIBILITY UNDER A GENERAL OR INDIVIDUAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

_____ (Permit Number)

_____ (Name of Facility/Project)

_____ (Municipality)

_____ (County)

The following parties agree to a change in ownership and/or operational control under the above referenced permit effective (date).

(New Co-Permittee name and address) hereby assumes joint and severable responsibility, coverage, and liability under the permit for any obligations, duties, responsibilities and violations under said permit. (Current Permittee) shall remain liable under the permit for violations of the permit conditions up to and including the above referenced date AND until a Notice of Termination is filed and acknowledged by the (Conservation District OR DEP Regional Office).

[The following paragraph should be used for multiple co-permittees.]

Attached is a description of site responsibilities and a map or plan drawing depicting the limits of permit responsibility, coverage, and liability for each co-permittee.

(Current Permittee(s)) (Company Name, if applicable)	(New Co-permittee(s))

TRANSFEREE AGREEMENT
ASSUMPTION OF RESPONSIBILITY UNDER A GENERAL OR INDIVIDUAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

_____ (Permit Number)

_____ (Name of Facility/Project)

_____ (Municipality)

_____ (County)

The following parties agree to transfer ownership and/or operational control under the above referenced permit. (Transferee name & address) hereby assumes, effective _____ (date) _____ all responsibility, coverage and liability under the permit for any obligations, duties, responsibilities, and violations under said permit. (Transferor, Name and Address) shall remain liable under the permit for violations of the permit up to and including (date) AND until the (Conservation District/DEP Regional Office) acknowledges the Co-Permittee/Transferee Form. The Department may hold (transferor) and (transferee) jointly and severably liable under said permit for any breach of permit obligations, responsibilities, or violations.

[The following paragraph should be used for multiple transferees.]

Attached is a description of site responsibilities and a map or plan drawing depicting the limits of permit responsibility, coverage, and liability for each transferee.

_____ (Current Permittee(s))

_____ (Transferee(s))

INSTRUCTIONS FOR THE TRANSFEREE / CO-PERMITTEE APPLICATION FORM FOR A GENERAL OR INDIVIDUAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES

Who may file the Transferee/Co-Permittee Application Form: This form may be used by an applicant seeking to apply for either complete or partial operational control of earth disturbance activities at a site which are already authorized by either an Individual or General NPDES Permit. Federal NPDES Regulations at 40 C.F.R. §122.21(b) require that Operator(s) must become a permittee. An operator is a person who meets either of the following criteria: 1.) You have operational control of construction project plans and specifications, including the ability to make modifications to those plans and specifications; **OR** 2.) You have day-to-day operational control (supervision) of those activities at the project that are necessary to ensure compliance with the Erosion and Sediment Control Plan for the site or ensure compliance with other permit conditions, i.e., General Contractors. Subcontractors generally do not have supervisory control over earth disturbance activities and therefore usually **should not** become a permittee or co-permittee. If prior to construction activities, there is no operator, the owner must apply for the permit. Once the operator has been selected, the operator must use this application either to be made a co-permittee or to have the permit transferred to the contractor. **Failure of the operator to be added to the permit is a violation of federal and state law and regulation.**

Where to file the Transferee/Co-Permittee Application Form: Send this form to the reviewing entity, either to the local county conservation district that is participating as the reviewing entity or, if the Department is the reviewing entity, to the appropriate DEP Regional Office, Permitting and Technical Services Section.

When to file the Application: This application must be filed at least 30 days prior to the proposed change of ownership and/or operational control which will result in the transfer of permit responsibility, coverage and liability.

Completing the Application: **TYPE OR PRINT IN BLOCK LETTERS IN THE APPROPRIATE SPACES**

Section A. **Permit Information** - Check the appropriate box and enter the Permit Number and date of issuance of the existing Individual or General NPDES Permit assigned to the construction activity at the site identified in Section C below.

Section B. **Current Permittee Information** - Enter the full name, address and telephone number of the individual or organization and contact person that is the current permittee. The Regional Office can supply the Client ID # and Applicant Code, if known.

Section C. **Site Information** - Enter the DEP Site ID#, site name, site address/location, county and municipality of the site where the construction activity authorized by the NPDES Permit is located. Include the date on which the transfer of Permit responsibility, coverage and liability will occur. The Regional Office can supply the Site ID #.

Section D. **Transferee/Co-Permittee Information** - Enter the full name, address and telephone number of the individual or organization and contact person that is applying to assume operational control of construction activities at the site. The Regional Office can supply the Client ID # and Applicant Code, if known.

Section E. **Compliance Review** - The individual or organization referenced in Section D must indicate if any other environmental permits have been received or are pending from DEP as well as their past compliance history and if they are currently in compliance with environmental laws, rules and regulations, permits, orders and schedules of compliance.

Section F. **Certification and Signature of Applicant** - The new Transferee/Co-Permittee Applicant (named in Section D) must complete the required certification that the information contained in this application is true, accurate, and complete; the BMPs are or will be designed and fully implemented in accordance with the NPDES Permit requirements and will meet the applicable standards and limitations of the permit; and further that the applicant has read, understands and agrees to abide by the terms and conditions of the permit. The application shall be signed as follows:

a. **For a corporation** -- By a responsible corporate officer, which means: (1) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (2) The manager of one or more manufacturing, production or operating facilities if authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;

b. **For a partnership or sole proprietorship** -- By a general partner or the proprietor, respectively; or

c. **For a municipality, State, Federal or other public agency** -- by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes: (1) the chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrators of EPA).

The application shall be notarized in the space provided.

3930-PM-WM0229 Rev. 10/2002

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATERSHED MANAGEMENT

OFFICIAL USE ONLY

PA _____

NOTICE OF TERMINATION
OF A GENERAL OR INDIVIDUAL NPDES PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES
- OR -
FOR AN EROSION AND SEDIMENT CONTROL PERMIT

1. PERMIT INFORMATION:

Check the appropriate boxes.

☐ NPDES Stormwater Permit # _____ ☐ Erosion and Sediment Control Permit #_____

Check one:

☐ I/we am/are no longer the Owner(s) or Operator(s) of the Construction Activity.
☐ Earth disturbance activity has ceased and the site is stabilized.

2. EARTH DISTURBANCE SITE LOCATION:

Facility/Development Name: _____

Municipality: _____ County: _____

Latitude: _____°/ _____'/ _____" Longitude: _____°/ _____'/ _____"

U.S.G.S. Quad Map Name: _____

3. PERMITTEE/CO-PERMITTEE SUBMITTING THIS NOTICE OF TERMINATION:

PERMITTEE

Name: _____
Address: _____
City: _____
State: _____ Zip Code: _____
Telephone Number: _____

CO-PERMITTEE

Name: _____
Address: _____
City: _____
State: _____ Zip Code: _____
Telephone Number: _____

4. PERMITTEE INFORMATION AND ACKNOWLEDGEMENT (IF APPLICABLE): (This Section must be completed by the permittee to acknowledge that a co-permittee is submitting this Notice. Leave this section blank if a Co-Permittee is not listed in Section 3.)

Name: _____
Address: _____
City: _____
State: _____ Zip Code: _____
Telephone Number: _____

I hereby acknowledge that the co-permittee submitting this Notice (identified in Section 3 above) is withdrawing as a permittee.

Name and Official Title of Permittee

_____

_____

Signature: _____

Date Signed: _____, 20_____

5. CERTIFICATION (To be completed by person(s) listed in Section 3):

I certify under penalty of law that (1) all discharges associated with earth disturbance activities at the site that are authorized by the NPDES permit or Erosion and Sediment Control Permit identified in Section 1 above have been eliminated, the site has been stabilized and Post Construction Stormwater Management BMPs have been installed or (2) I am no longer an owner or operator of the construction activity. I understand that by submitting this Notice of Termination, I am no longer authorized to conduct earth disturbance activities under the above referenced NPDES permit, or under the Erosion and Sediment Control Permit and that discharging stormwater from construction activities to waters of the Commonwealth is unlawful where the discharge is not authorized by an NPDES permit. I also understand that the submittal of the Notice of Termination does not release a permittee from liability for any violations of this permit or of the federal Clean Water Act, the Pennsylvania Clean Streams Law and the regulations promulgated pursuant thereto or from liability for any environmental damages occurring as a result of any earth disturbance activities conducted at the site. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and Official Title of person listed under Section 3:

_____

_____

Signature: _____

Notarization:

Commonwealth of Pennsylvania

County of _____

Sworn to and Subscribed to Before Me This

_____ Day of _____, 20_____

NOTARY SEAL

_____

Notary Public

My Commission Expires: _____

Who may file a Notice of Termination (NOT) form:

Permittees or Co-permittees who are presently covered under an Individual NPDES Permit, the Pennsylvania General NPDES Permit for discharges of stormwater associated with construction activities or an Erosion and Sediment Control Permit may submit an NOT form when: (1) they are no longer the owner or operator of the construction activity at a site which has not been stabilized, or (2) any earth disturbance activity or discharges associated with construction activity at the site have been terminated and the site has been stabilized. For construction activities, elimination of all stormwater discharges occurs when disturbed soils at the construction site have been stabilized and temporary erosion control BMP's have been removed.

DISCLOSURE OF LOBBYING ACTIVITIES

Approved by OMB
0348-0046

Complete this form to disclose lobbying activities pursuant to 31 U.S.C. 1352
(See reverse for public burden disclosure.)

1. Type of Federal Action:	2. Status of Federal Action:	3. Report Type:
☐ a. contract b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	☐ a. bid/offer/application b. initial award c. post-award	☐ a. initial filing b. material change **For Material Change Only:** year _____ quarter _____ date of last report _____

4. Name and Address of Reporting Entity:	5. If Reporting Entity in No. 4 is a Subawardee, Enter Name and Address of Prime:
☐ **Prime** ☐ **Subawardee** Tier _____, *if known*: **Congressional District**, *if known*: 4c	**Congressional District**, *if known*:
6. Federal Department/Agency:	**7. Federal Program Name/Description:** CFDA Number, *if applicable*: _____
8. Federal Action Number, *if known*:	**9. Award Amount,** *if known*: $
10. a. Name and Address of Lobbying Registrant (*if individual, last name, first name, MI*):	**b. Individuals Performing Services** (*including address if different from No. 10a*) (*last name, first name, MI*):

11. Information requested through this form is authorized by title 31 U.S.C. section 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This disclosure is required pursuant to 31 U.S.C. 1352. This information will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

Signature: _____

Print Name: _____

Title: _____

Telephone No.: _____ Date: _____

Federal Use Only:

Authorized for Local Reproduction
Standard Form LLL (Rev. 7-97)

Created by PENNDOT EDMS Wednesday, November 21, 2012 4:01:03 PM

INSTRUCTIONS FOR COMPLETION OF SF-LLL, DISCLOSURE OF LOBBYING ACTIVITIES

This disclosure form shall be completed by the reporting entity, whether subawardee or prime Federal recipient, at the initiation or receipt of a covered Federal action, or a material change to a previous filing, pursuant to title 31 U.S.C. section 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employeeof a Member of Congress in connection with a covered Federal action. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered Federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered Federal action.

2. Identify the status of the covered Federal action.

3. Identify the appropriate classification of this report. If this is a followup report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered Federal action.

4. Enter the full name, address, city, State and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime is the 1st tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.

5. If the organization filing the report in item 4 checks "Subawardee," then enter the full name, address, city, State and zip code of the prime Federal recipient. Include Congressional District, if known.

6. Enter the name of the Federal agency making the award or loan commitment. Include at least one organizationallevel below agency name, if known. For example, Department of Transportation, United States Coast Guard.

7. Enter the Federal program name or description for the covered Federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.

8. Enter the most appropriate Federal identifying number available for the Federal action identified in item 1 (e.g., Request for Proposal (RFP) number; Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the Federal agency). Include prefixes, e.g., "RFP-DE-90-001."

9. For a covered Federal action where there has been an award or loan commitment by the Federal agency, enter the Federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.

10. (a) Enter the full name, address, city, State and zip code of the lobbying registrant under the Lobbying Disclosure Act of 1995 engaged by the reporting entity identified in item 4 to influence the covered Federal action.

    (b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).

11. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

Steel Escalation Option

The undersigned hereby certifies that he/she is authorized to make a decision, on behalf of the Bidder, regarding application of the provisions of the Standard Special Provision entitled "Price Adjustment for Steel Cost Fluctuations" to the following project:

ECMS Project No. _____ S.R._____, Section _____ Letting Date_____

SSP SUBSECTION	CATEGORY NAME	OPTION-IN*	OPTION-OUT**
4.a	Guide Rail and Metal Median Barrier	☐	☐
4.b	Reinforcement Bars	☐	☐
4.c	Piles	☐	☐
4.d	Steel Sign Structure(s)	☐	☐
4.e	Fabricated Structural Steel	☐	☐
4.f	Precast Reinforced Concrete Box Culvert(s) / Prestressed Concrete Bridge Beam(s)	☐	☐

* Checking here **elects** the option to apply the provisions of the SSP entitled "Price Adjustment for Steel Cost Fluctuations" to the steel used in applicable materials placed as part of the work items in the indicated category.

** Checking here **declines** the option to apply the provisions of the SSP entitled "Price Adjustment for Steel Cost Fluctuations" to the steel used in applicable materials placed as part of the work items in the indicated category.

_____
CONTRACTOR NAME

X _____
SIGNATURE

_____
PRINTED NAME

_____
DATE

The apparent low bidder is required to submit this form via fax to (717) 705-1504 by 3:00 pm prevailing local time within 7 calendar days after the bid opening. When the seventh calendar day after the bid opening falls on a day PennDOT offices are closed, submit this form via fax by 3:00 pm prevailing local time on the next business day.

If a properly completed form is not provided by the apparent low bidder within the time specified, the Department will consider the option to apply the price adjustment provisions to the project to be declined (i.e. Option-OUT will be selected for the project). If the form, when provided within the time specified, has been completed such that the Department is unable to ascertain the bidder's intention with regard to the inclusion of any one of the applicable steel product categories, the Department will consider the option to apply the price adjustment provisions to that product category to be declined (i.e. Option-OUT will be selected for the category). No further opportunity to elect steel escalation for the project or an individual steel product category will be made available to the bidder.

TABLE 4
MITIGATION TRACKING SYSTEM MATRIX

Project Name: S.R. 0202, Sections 330

Project Location: East Whiteland Township, Chester County, Pennsylvania

MITIGATION CATEGORY	SPECIFIC RESOURCE/ REFERENCE NUMBER	RESPONSIBLE PARTY	SOURCE DOCUMENTS	SPECIAL PROVISIONS	PART 4 OF 5: CONSTRUCTION		
					MITIGATION COMMITMENT	CONTRACTOR [2], [3] DATE/INITIALS	CONSTRUCTION PROJECT MANAGER [3] DATE/INITIALS
NATURAL RESOURCES							
Streams, Rivers, and Watercourses	Valley Creek Basin	Contractor Team	Completed in Section 310	N/A	Stream mitigation was completed during the S.R. 0202, Section 310 construction section. Any changes would require contact with both PADEP and USACOE.		
Wild or Stocked Trout Streams	Valley Creek Basin	Contractor Team	Ongoing for Section 330, refer to Joint Permit and Erosion and Sediment Pollution Control Plan	N/A	The project may have impacts to wild trout streams, therefore no work will occur within the channels between October 1st and December 31st.		
Wetlands	Project Wide	Contractor Team	Completed in Section 310	N/A	Wetland mitigation was required for approximately 0.3 acres of impacts - 0.16 acre forested impacts, 0.14 acre emergent impacts (mitigation to total 0.6 acre). This mitigation was completed during the S.R. 0202, Section 310 construction section. Place protective fencing around remaining wetlands within ROW to minimize additional wetland impacts. Section 330 design incorporates protective fence to minimize additional impacts.		
Vegetation	Project Wide	Contractor Team	Ongoing for Section 330. Please refer to Post Construction Stormwater Management Plan and Special Provision	N/A	Phalaris arundinacea (Reed Canary Grass) and Phragmites australis (Common Reed) have been identified as abundant within the project area. Specific prescribed management techniques have been included as special provisions for construction. Weed management as needed and/or directed will be implemented in all PENNDOT created stormwater and wetland mitigation areas to minimize the spread of these invasive species. Any disturbed areas will be graded and reseeded with native species as appropriate.		

TABLE 4
MITIGATION TRACKING SYSTEM MATRIX

Project Name: S.R. 0202, Sections 330

Project Location: East Whiteland Township, Chester County, Pennsylvania

MITIGATION CATEGORY	SPECIFIC RESOURCE/ REFERENCE NUMBER	RESPONSIBLE PARTY	SOURCE DOCUMENTS	SPECIAL PROVISIONS	PART 4 OF 5: CONSTRUCTION		
					MITIGATION COMMITMENT	CONTRACTOR [2], [3] DATE/INITIALS	CONSTRUCTION PROJECT MANAGER [3] DATE/INITIALS
Threatened and Endangered Plants and Animals	Project Wide	Contractor Team	Ongoing for Section 330. Refer to Joint Permit and Special Provision.	N/A	No mitigation is required provided that identified potential bog turtle habitat (Wetland E) will not be impacted. The following avoidance measures will be implemented for Wetland E prior to construction: One pre-construction bog turtle survey will be completed by a Phase II certified surveyor prior to construction. The search area will be limited to within 10 feet of the limit of disturbance. If the survey is conducted between June 15th through October 31st herbaceous vegetation within the survey area will be cut with a hand-held trimmer/weed cutter to a height of four to six inches. Habitat fencing will be installed immediately after the pre-construction survey. The habitat fencing will measure 30 inches and will be installed around the wetland within the project area. If the installation of the exclusionary silt fence is completed between November 1 and March 31, no pre-construction survey is necessary. The bog turtle exclusion fencing will be removed immediately upon completeion of all construction activities, including stabilization of earth disturbance areas. The fencing will be removed by hand. Continue to update coordination with USFWS, PFBC, PGC, and PNDI prior to construction.		
Unique Geologic Resources (e.g., sinkholes, caves, etc.)	Project Wide	Contractor Team	Ongoing for Section 330. Please refer to Special Provision.	N/A	Sinkholes encountered during construction will be properly backfilled and sealed using the following measures: sinkhole will be cleaned until solid limestone/dolomite is exposed on the walls and eye of sinkhole is exposed; sinkhole will be flushed with water under pressure; eye of sinkhole will be plugged with concrete where subsurface drainage is to be controlled; sinkhole will be reverse graded (small over large rock). Monitor groundwater where subsidence or groundwater contamination may occur during construction.		
Soil & Erosion Sedimentation	Project Wide	Contractor Team	Ongoing for Section 330, refer to Erosion and Sediment Pollution Control Plan.		E&S Plans approved by Chester County Conservation District. NPDES Permit obtained via Chester County Conservation District and PADEP. E&S Plans monitored during construction for effectiveness. Contractor must provide a Certified Erosion and Sediment Control Specialist (CEPESC) for oversight of earthmoving operations per Special Provision. Perform erosion and sediment BMP maintenance items as described in the Erosion and Sediment Plans for the project. Section 330 will be monitored during construction.		

TABLE 4
MITIGATION TRACKING SYSTEM MATRIX

Project Name: S.R. 0202, Sections 330

Project Location: East Whiteland Township, Chester County, Pennsylvania

MITIGATION CATEGORY	SPECIFIC RESOURCE/ REFERENCE NUMBER	RESPONSIBLE PARTY	SOURCE DOCUMENTS	SPECIAL PROVISIONS	PART 4 OF 5: CONSTRUCTION		
					MITIGATION COMMITMENT	CONTRACTOR [2], [3] DATE/INITIALS	CONSTRUCTION PROJECT MANAGER [3] DATE/INITIALS
Post Construction Stormwater Management	M-4-1, M-7, M-7A, M-8, M-9, M-19A, M-20, D-1, D-4, D-7, D-7A, D-8	Contractor Team/Baker Project Team	Ongoing for Section 330. Refer to Post-Construction Stormwater Management Report	See PCSM Special Provisions.	Completed ownership and site access information with property owners of potential mitigation sites. ROW and access purchases are currently underway. PennDOT ROW acquisition process for Section 330 should be completed by summer 2012. Perform hydrologic modeling for those mitigation sites within the floodplain/floodway. GTS has completed an Hydrologic and Hydraulic Report dated Aug 2002 and July 2011 for the proposed mitigation sites. Work group meetings of the Stormwater Management Committee (SMC) are complete. Coordination with local interest groups through the form of a SMC has been completed. Obtain municipal approvals in accordance with stormwater management ordinances. Coordination with East Whiteland Township has been on-going throughout the design process. Provide for water quality enhancement measures prior to discharge. Water quality enhancement measures have been incorporated into the design for stormwater mitigation sites. Several sites will not provide infiltration and will therefor function as water quality enhancement measures. Retrofit existing basins where possible for enhanced pollutant removal. Two PennDOT owned stormwater basins (D-22 in Sec 320 and D-1 in Sec 330) are located within the project area and will be retrofitted and expanded as part of the project. Options for retrofitting adjacent privately owned basins were investigated. None of the basins adjacent to the roadway provide opportunity for retrofits to significantly enhance pollutant removal. Mitigation site plans will be monitored during construction as stated in the NPDES perimt. Internal PennDOT discussions resulted in deletion of the following mitigation item. "Provide an emergency shut off valve for spill containment." In Section 330, a permanent drainage easement for stormwater will be required, and is located on the Richardson/Valley View Farm property, which is eligible for the National Register.		

TABLE 4
MITIGATION TRACKING SYSTEM MATRIX

Project Name: S.R. 0202, Sections 330

Project Location: East Whiteland Township, Chester County, Pennsylvania

MITIGATION CATEGORY	SPECIFIC RESOURCE/ REFERENCE NUMBER	RESPONSIBLE PARTY	SOURCE DOCUMENTS	SPECIAL PROVISIONS	PART 4 OF 5: CONSTRUCTION		
					MITIGATION COMMITMENT	CONTRACTOR [2], [3] DATE/INITIALS	CONSTRUCTION PROJECT MANAGER [3] DATE/INITIALS
AIR, NOISE, AND VIBRATION							
Construction Noise	Project Wide	Contractor Team	Ongoing for Section 330. Refer to General Provisions.	N/A	Contractor will maintain equipment with proper mufflers. Construction activities should take place during normal working hours per county code to minimize impacts to sensitive noise receptors.		
HAZARDOUS OR RESIDUAL WASTE SITES							
None							
COMMUNITY RESOURCES							
None							
CULTURAL RESOURCES							
None							
SAFETY AND MOBILITY							
Emergency Services and Facilities	Project Wide	Contractor Team	Ongoing for Section 330. Refer to General Provisions.	N/A	Coordination with appropriate emergency services will be undertaken to alert them of the construction schedule and of possible delays/roadway closures. A roaming emergency service vehicle(s) during construction will be included in the construction bid contract.		
Traffic Controls	Project Wide	Contractor Team	Ongoing for Section 330. Refer to Traffic Control Plan	N/A	Incorporate emergency pulloff areas on the traffic control plans. Provide real time delay information to travelers using the ITS equipment. Each construction section will be coordinated with District public relations official and traffic control center. Off-site intersection improvements clearance was completed and were constructed with Section 310 under a separate CEE Document (MPMS#64493). Two travel lanes will be provided for peak hour traffic during construction. Continue to support and assist the Traffic Management Associations (TMA's) through the construction period.		

[2] Contractor Name: _____

Contractor Responsible Individual: _____

[3] The Contractor is to initialize the matrix for a given mitigation line-item immediately after the individual line-item has been implemented and/or completed. The Contractor is to coordinate with the Construction Project Manager (or Environmental Monitor) to review the individual mitigation line items and to receive concurrence (PM or EM initials) for completed line items. This coordination is to be on a regular basis (such as periodic site inspections or status meetings, as determined for the project.

ITEM 8215-0001-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-25698

2.a.1. Spread Footings & 2.a.2. Drilled Caisson:

Design Case	Applicable Borings	Design Boring	Station Limits	Description	Average SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Recommended in Standard Special Provision 8215
Case A	NW1-1	NW1-1	1019+77 to 1021+75	Silt	7	0.0-4.5	γ =110 pcf, c=0 psi $\phi = 30^0$
				Clay	9	4.5-14.0	γ =120 pcf, c=1000 psf $\phi = 0^0$
				Sandy Silt	2	14.0-20.5	γ =100 pcf, c=0 psi $\phi = 20^0$
				Rock	NA	Below 20.5	C_o = 5800 psi
Case B	NW1-2	NW1-2	1021+75 to 1024+00	Sandy Silt	8	0.0-25.5	γ =110 pcf, c=0 psi $\phi = 30^0$
Case C	NW1-3	NW1-3	1024+00 to 1026+75	Silty Sand	7	0.0-11.0	γ =110 pcf, c=0 psi $\phi = 30^0$
				Rock	NA	Below 11.0	C_o = 5800 psi
Case D	NW1-4	NW1-4	1026+75 to 1029+00	Sandy Silt	11	0.0-30.0	γ =130 pcf, c=0 psi $\phi = 35^0$
Case E	NW1-5	NW1-5	1029+00 to 1031+75	Silt w/ sand and gravel	23	0.0-3.0	γ =130 pcf, c=0 psi $\phi = 35^0$
				Clay	10	3.0-6.5	γ =120 pcf, c=1000 psf $\phi = 0^0$
				Sandy Silt	15	6.5-25.5	γ =130 pcf, c=0 psi $\phi = 35^0$
Case F	NW1-6	NW1-6	1031+75 to 1034+25	Silty Sand	14	0.0-11.0	γ =130 pcf, c=0 psi $\phi = 35^0$
				Rock	NA	Below 11.0	C_o = 5800 psi
Case G	NW1-7	NW1-7	1034+25 to 1036+75	Sandy Silt	9	0.0-20.5	γ =110 pcf, c=0 psi $\phi = 30^0$
				Rock	NA	Below 20.5	C_o = 5800 psi
Case H	NW1-8	NW1-8	1036+75 to 1039+00	Sandy Silt	14	0.0-6.0	γ =130 pcf, c=0 psi $\phi = 35^0$
				Rock	NA	Below 6.0	C_o = 5800 psi
Case I	NW1-9, NW2-1	NW1-9	1039+00 to 1040+93.98	Sandy Silt	10	0.0-16.5	γ =130 pcf, c=0 psi $\phi = 35^0$
				Rock	NA	Below 16.5	C_o = 5800 psi

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion, C_o: Uniaxial Compressive Strength of Intact Rock Samples

2.b.2. Drilled Shaft

Design Case	Applicable Borings	Design Boring	Station Limits	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Required in Standard Special Provision 8215	
Case A	NW1-1	NW1-1	1019+77 to 1021+75	Reese Sand Above Groundwater	0.0 - 4.5	k = 25 pci	Groundwater Depth Below Final Grade: 4.5 ft Design Slope = 2H:1V
				Stiff Clay w. Free Water	4.5 - 14.0	k = 300 pci E_{50} = 0.007	
				Submerged Reese Sand	14.0 - 20.5	k = 20 pci	
				Strong Rock (Vuggy Limestone)	Below 20.5	NA	
Case B	NW1-2	NW1-2	1021+75 to 1024+00	Reese Sand Above Groundwater	0.0 - 8.0	k = 30 pci	Groundwater Depth Below Final Grade: 8.0 ft Design Slope = 2H:1V
				Submerged Reese Sand	8.0 - 25.5	k = 25 pci	
Case C	NW1-3	NW1-3	1024+00 to 1026+75	Reese Sand Above Water Table	0.0 - 4.0	k = 25 pci	Groundwater Depth Below Final Grade: 4.0 ft Design Slope = 2H:1V
				Submerged Reese Sand	4.0 - 11.0	k = 20 pci	
				Strong Rock (Vuggy Limestone)	Below 11.0	NA	
Case D	NW1-4	NW1-4	1026+75 to 1029+00	Submerged Reese Sand	0.0 - 30.0	k = 50 pci	Groundwater Depth Below Final Grade: 0.0 ft Design Slope = Flat
Case E	NW1-5	NW1-5	1029+00 to 1031+75	Reese Sand Above Groundwater	0.0 -3.0	k = 95 pci	Groundwater Depth Below Final Grade: 3.0 ft Design Slope = 5H:1V
				Stiff Clay w. Free Water	3.0 - 6.5	k = 300 pci E_{50}=0.007	
				Submerged Reese Sand	6.5 - 25.5	k = 65 pci	
Case F	NW1-6	NW1-6	1031+75 to 1034+25	Reese Sand Above Groundwater	0.0 - 7.0	k = 90 pci	Groundwater Depth Below Final Grade: 7.0 ft Design Slope = 2H:1V
				Submerged Reese Sand	7.0 - 11.0	k = 60 pci	

				Strong Rock (Vuggy Limestone)	Below 11.0	NA	
Case G	NW1-7	NW1-7	1034+25 to 1036+75	Reese Sand Above Groundwater	0.0 - 15.0	k = 50 pci	Groundwater Depth Below Final Grade: 15 ft Design Slope = 2H:1V
				Submerged Reese Sand	15.0 - 20.5	k = 35 pci	
				Strong Rock (Vuggy Limestone)	Below 20.5	NA	
Case H	NW1-8	NW1-8	1036+75 to 1039+00	Reese Sand Above Groundwater	0.0 - 6.0	k = 90 pci	Groundwater Depth Below Final Grade: 6 ft Design Slope = 2H:1V
				Strong Rock (Vuggy Limestone)	Below 6.0	NA	
Case I	NW1-9, NW2-1	NW1-9	1039+00 to 1040+93.98	Reese Sand Above Groundwater	0.0 - 7.0	k = 65 pci	Groundwater Depth Below Final Grade: 7 ft Design Slope = 3H:1V
				Submerged Reese Sand	7.0 - 16.5	k = 45 pci	
				Strong Rock (Vuggy Limestone)	Below 16.5	NA	

Notes:

k: Subgrade reaction modulus; E_{50}: strain at 50% shear strength for stiff clay.

The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design. Estimate the length of drilled shaft by considering a maximum allowable lateral deflection of ½ inch at the caisson top for the applied loads.

For limestone bedrock considered, a unit weight of 140 pcf and an unconfined compressive strength of rock q_u = 2,000 psi must be used for LPILE strong rock input.

Because of the variability of typical karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil/rock model by the design-build team is required.

ITEM 8215-0002-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-25699

2.a.1. Spread Footings & 2.a.2. Drilled Caisson:

Design Case	Applicable Borings	Design Boring	Station Limits	Description	Average SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Recommended in Standard Special Provision 8215
Case A	NW1-9, NW2-1	NW2-1	1040+40 to 1042+25	Sandy Silt	20	0.0-6.0	γ =130 pcf, c= 0 psi $\phi = 35^0$
				Rock	NA	Below 6.0	C_o = 5,800 psi
Case B	NW2-2	NW2-2	1042+25 to 1044+50	Sandy Silt	29	0.0-10.0	γ =130 pcf, c= 0 psi $\phi = 35^0$
				Clay	5	10.0-14.0	γ =120 pcf, c= 1000 psf $\phi = 0^0$
				Rock	NA	Below 14.0	C_o = 5,800 psi
Case C	NW2-3	NW2-3	1044+50 to 1047+00	Silty Sand	29	0.0-18.5	γ =130 pcf, c= 0 psi $\phi = 35^0$
				Sandy Silt	10	18.5-35.0	γ =110 pcf, c= 0 psi $\phi = 30^0$
Case D	NW2-4	NW2-4	1047+00 to 1049+00	Sandy Silt	14	0.0-21.0	γ =130 pcf, c= 0 psi $\phi = 35^0$
				Silty Gravel	26	1□0-28.5	γ =130 pcf, c= 0 psi $\phi = 36^0$
Case E	NW2-5	NW2-5	1049+00 to 1051+28	Sandy Silt	17	0.0-24.0	γ =130 pcf, c= 0 psi $\phi = 35^0$
				Silty Sand	15	24.0-30.3	γ =130 pcf, c= 0 psi $\phi = 35^0$

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion, C_o: Uniaxial Compressive Strength of Intact Rock Samples

2.b.2. Drilled Shaft

Design Case	Applicable Borings	Design Boring	Station Limits	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Required in Standard Special Provision 8215	
Case A	NW1-9, NW2-1	NW2-1	1040+40 to 1042+25	Reese Sand Above Groundwater	0.0 - 3.0	k = 95 pci	Groundwater Depth Below Final Grade: 3.0 ft Design Slope = 2H:1V
				Submerged Reese Sand	3.0 - 6.0	k = 65 pci	
				Strong Rock (Vuggy Limestone)	Below 6.0	NA	
Case B	NW2-2	NW2-2	1042+25 to 1044+50	Reese Sand Above Groundwater	0.0 - 5.0	k = 120 pci	Groundwater Depth Below Final Grade: 5.0 ft Design Slope = 2H:1V
				Submerged Reese Sand	5.0 - 10.0	k = 80 pci	
				Stiff Clay w. Free Water	10.0 - 14.0	k = 100 pci E_{50}=0.012	
				Strong Rock (Vuggy Limestone)	Below 14.0	NA	
Case C	NW2-3	NW2-3	1044+50 to 1047+00	Reese Sand Above Water Table	0.0 - 7.0	k = 120 pci	Groundwater Depth Below Final Grade: 7.0 ft Design Slope = 2H:1V
				Submerged Reese Sand	7.0 - 18.5	k = 80 pci	
				Submerged Reese Sand	18.5 - 35.0	k = 40 pci	
Case D	NW2-4	NW2-4	1047+00 to 1049+00	Reese Sand Above Groundwater	0.0 - 21.0	k = 80 pci	Groundwater Depth Below Final Grade: 21 ft Design Slope = 2H:1V
				Submerged Reese Sand	21.0 - 28.5	k = 70 pci	
Case E	NW2-5	NW2-5	1049+00 to 1051+28	Reese Sand Above Groundwater	0.0 -15.0	k = 90 pci	Groundwater Depth Below Final Grade: 15 ft Design Slope = 2H:1V
				Submerged Reese Sand	15.0 - 24.0	k = 60 pci	
				Submerged Reese Sand	24.0 - 30.3	k = 55 pci	

Notes

k: Subgrade reaction modulus; E_{50}: strain at 50% shear strength for stiff clay.

The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model

information for the caisson length design. Estimate the length of drilled shaft by considering a maximum allowable lateral deflection of ½ inch at the caisson top for the applied loads.

For limestone bedrock considered, a unit weight of 140 pcf and an unconfined compressive strength of rock q_u = 2,000 psi must be used for LPILE strong rock input.

Because of the variability of typical karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil/rock model by the design-build team is required.

ITEM 8215-0003-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-30979

2.a.1. Spread Footings & 2.a.2. Drilled Caisson:

Design Case	**Applicable Borings**	**Design Boring**	**Station Limits**	**Description**	**Average SPT N Values**	**Depth Below The Final Grade (ft)**	**Design Parameters As Recommended in Standard Special Provision 8215**
Case A	NW3-1	NW3-1	284+00 to 285+00	Loose Gravelly Silt	9	0.0 -16.0	γ =115 pcf, C=0 psi $\phi = 30^0$
				Limestone Rock	NA	Below 16.0	γ =140 pcf, C_0=2000 psi
Case B	B2-7, B2-7E, B2-8, & B2-8E	B2-7 and 8	285+00 to 286+90	Medium Dense Silt and Silty Sand	18	0-18.0	γ =120 pcf, C = 0 psi, $\phi = 32^0$
				Medium Dense Clayey Gravel	12	18.0-25.5	γ =120 pcf, C=0 psi $\phi = 31^0$
				Stiff Clay with Sand	14	Below 25.5	γ =120 pcf, C = 7.0 psi, $\phi = 0^0$

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion, C_o: Uniaxial Compressive Strength of Intact Rock Samples

2.b.2. Drilled Shaft

Design Case	**Applicable Boring(s)**	**Design Boring**	**Station Limits**	**Soil/Rock Model**	**Depth Below The Final Grade (ft)**	**Foundation Design Information As Recommended in Standard Special Provision 8215 (1,2)**	
Case A	NW3-1	NW3-1	284+00 to 285+00	Loose Reese Sand Above the Water Table	0.0 -14.0	k = 25 pci	Groundwater Depth Below Final Grade: 14.0 ft Design Slope = 2H:1V
				Loose Reese Sand Below Water Table	14.0-16.0	k = 20 pci	
				Strong Limestone Rock	Below 16 (3)	NA	
Case B	B2-7, B2-7E, B2-8, & B2-8E	B2-7 & B2-8	285+00 to 286+90	Medium Reese Sand Above the Water Table	0.0 -14.0	k = 90 pci	Groundwater Depth Below Final Grade: 14.0 ft Design Slope = 3H:1V
				Medium Reese Sand Below Water Table	Below 14.0	k = 60 pci	

Notes:

k: Subgrade reaction modulus; E_{50}: strain at 50% shear strength for stiff clay.

1. The parameters in the above table are intended for the drilled caisson foundation analysis and design input. k: subgrade reaction modulus (pound per cubic inch). Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design.

2. Rock is anticipated at the following depths based on SPT borings:

   For Case A, approximately 16 ft below the ground surface between station 284+00 and station 285+00

   For Case B, approximately 50 ft below the ground surface between station 285+00 and 286+90.

   Because of the variability of typical Karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil model by the design-build team is required.

3. Unit Weight for Rock = 140 pcf and Unconfined compressive strength of rock q_u = 2,000 psi for LPILE input.

ITEM 8215-0004-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-31942

2.a.1. Spread Footings & 2.a.2. Drilled Caisson:

Design Case	Referred Borings	Design Boring	Station Limits	Description	Average SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Recommended in Spec. Prov. 8215
Case A	NW4-1 NW4-2	NW4-2	287+99.43 to 292+50	Silt	7	0 -11	γ =112 pcf, C=0 psi $\phi = 29^0$
				Silt	4	11-17	γ =110 pcf, C=0 psi $\phi = 28^0$
				Silt, Silty Gravel	10	17-23	γ =115 pcf, C=0 psi $\phi = 31^0$
				Limestone Rock	NA	Below 23	γ =140 pcf, C_0=2000 psi
Case B	NW4-3 NW4-4 NW4-7	NW4-7	292+50 to 298+00 & 302+50 to 303+86.80	Silty Sand	18	0-10	γ =115 pcf, C=0 psi $\phi = 32^0$
				Silty Gravel	29	10-19 (a)	γ =125 pcf, C=0 psi $\phi = 34^0$
				Sandy Clay - Stiff	8	19-23	γ =120 pcf, C= 7psi $\phi = 0^0$
				Silty Sand	22	23-35	γ =115 pcf, C=0 psi $\phi = 33^0$
				Silty Sand	40	Below 35	γ =128 pcf, C=0 psi $\phi = 35^0$
Case C*	NW4-5 NW4-6	NW4-5	298+00 to 299+00 & 300+00 to 302+50	Proposed Rock Veneer	NA	Varies*	γ =105 pcf, C= 0psi $\phi = 36^0$
				Sandy Silt, Clayey Sand	8	Below Rock Veneer-12	γ =112 pcf, C= 0psi $\phi = 29^0$
				Silt, Sandy Lean Clay (Very Stiff to Hard), Silty Gravel (b)	20	Below 12 (b)	γ =117 pcf, C= 0psi $\phi = 32^0$
Case D*	NW4-5	NW4-5	299+00 to 300+00	Proposed Rock Veneer w/ Embankment Fills (c)	NA	Varies*	γ =105 pcf (c), C= 0psi $\phi = 32^{0\,(c)}$
				Sandy Clay (d)	6	Below Rock Veneer (c)	γ =120 pcf, C= 6psi $\phi = 0^0$

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion, C_o: Uniaxial Compressive Strength of Intact Rock Samples

*: For "Design Case C & Case D", The proposed embankment widening has a slope ration of 1.5H:1V. Bench is necessary for the embankment construction. Rock veneer will be used for slope stabilization. The vertical and horizontal limits of the veneer vary as determined by contractor.

(a): Based on Boring NW4-3, limestone boulders are encountered at EL. 345, which is 10 ft below the existing ground. The boulder is ~ 6 ft in thickness. Station limits may span from 293+75 to 294+25.

(b): Based on boring NW4-6, dense to very dense Silty Gravel (weathered limestone) is encountered from E.L. 322, which is 22 ft below the existing ground surface. Station limits may span from 300+75 to 302+00.

(c): For Case D, the final grade of the roadway embankment will be raised ~20 ft from the existing ground. For the sound barrier foundation design, an internal friction angle of 32 (degrees) is currently recommended for regular embankment fill. For areas using flowable fill as the embankment material, an internal friction angle of 36 (degrees) can be used. The unit weight of flowable fill will be specified accordingly. The foundation option for the noise wall shall also consider a proposed underlain Chester Valley Trail culvert (S-24744) within the case limit.

(d): The sandy clay layer and the related parameters are estimated based on boring B3-2. Limestone bedrock is encountered 28 ft below the ground surface. Station limits may span from 299+25 to 299+70.

2.b.2. Drilled Shaft

Design Case	Referred Borings	Design Boring	Station Limits	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Recommended in Standard Special Provision 8215	
Case A	NW4-1 NW4-2	NW4-2	287+99.43 to 292+50	Reese Sand Above Water Table	0 -11	k = 35 pci	Groundwater Depth Below Final Grade: 17 ft Design Slope = 2H:1V
				Reese Sand Above Water Table	11-17	k = 25 pci	
				Submerged Reese Sand	17-23	k = 50 pci	
				Strong Rock (Vugyy Limestone)	Below 23	NA	
Case B	NW4-3 NW4-4 NW4-7	NW4-7	292+50 to 298+00 & 302+50 to 303+86.80	Reese Sand Above Water Table	0-10	k = 90 pci	Groundwater Depth Below Final Grade: 10 ft Design Slope = 2H:1V
				Submerged Reese Sand	10-19	k = 70 pci	
				Stiff Clay w/ Free Water	19-23	k = 500 pci, E_{50} = 0.007	
				Submerged Reese Sand	23-35	k = 60 pci	
				Submerged Reese Sand	Below 35	k = 90 pci	
Case C	NW4-5 NW4-6	NW4-5 NW4-6	298+00 to 299+00 & 300+00 to 302+50	Reese Sand Above Water Table	0 - 6.0*	k = 120 pci	Groundwater Depth Below Final Grade: 20 ft Design Slope = 1.5H:1V
				Reese Sand Above Water Table	6.0 - 12.0	k = 35 pci	
				Reese Sand Above Water Table	12.0 - 20.0	k = 90 pci	
				Submerged Reese Sand	20.0 - 30.0	k = 60 pci	
Case D	NW4-5	NW4-5	299+00 to 300+00	Reese Sand Above Water Table	0.0 - 15.0*	k = 100 pci	Groundwater Depth Below Final Grade: 15 ft Design Slope = 1.5H:1V
				Stiff Clay w/ Free Water	Below 15.0	k = 100 pci E_{50} = 0.01	

Notes: k: Subgrade reaction modulus; E_{50}: strain at 50% shear strength for stiff clay

The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design.

*: The thickness of the top layer in the table for Case C and Case D is conservatively estimated for design purposes. The actual thickness of rock veneer and proposed fills vary as determined by contractor.

ITEM 8215-0005-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-31036

2.a.1.Spread Footings & 2.a.2.Drilled Caisson:

Design Case	Applicable Borings	Design Boring	Station Limits	Description	Average SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Recommended in Standard Special Provision 8215
Case A	NW5-1	NW5-1	280+64 to 282+00	Medium Dense Silt	24	0.0 -22.5	γ =125 pcf, c=0 psi $\phi = 32^0$
				Very Stiff Clay	16	Below 22.5	γ =120 pcf, c=7 psi $\phi = 0^0$
Case B	NW5-2, B2-1	NW5-2, B2-1	282+00 to 285+40	Loose Sandy Silt	10	0.0 -22.5	γ =125 pcf, c=0 psi $\phi = 30^0$
				Medium Stiff Silt and Clay	11	Below 22.5	γ =120 pcf, c=7 psi $\phi = 0^0$

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion, C_o: Uniaxial Compressive Strength of Intact Rock Samples

2.b.2. Drilled Shaft

Design Case	Applicable Boring(s)	Design Boring	Station Limits	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Recommended in Standard Special Provision 8215	
Case A	NW5-1	NW5-1	280+64 to 282+00	Reese Sand Below Water Table	0.0 -22.5	k = 60 pci	Groundwater Depth Below Final Grade: 0 ft Design Slope = Level
				Stiff Clay w/ Free Water	Below 22.5	k = 500 pci E_{50}=0.007	
Case B	NW5-2, B2-1	NW5-2	282+00 to 285+40	Loose Reese Sand Above the Water Table	0.0 -12.0	k = 25 pci	Groundwater Depth Below Final Grade: 12.0 ft Design Slope = 2H:1V
				Loose Reese Sand Below Water Table	12.0-22.5	k = 20 pci	
				Stiff Clay w/ Free Water	Below 22.5	k = 500 pci E_{50}=0.007	

Notes: k: Subgrade reaction modulus; E_{50}: strain at 50% shear strength for stiff clay.

The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design.

Rock is anticipated at or below the following depths based on borings NW5-1, NW5-2, and B2-1.

For Case A: 30 ft below the existing ground surface between station 280+64 and station 282+00
For Case B: 34 ft below the existing ground surface between station 282+00 and 285+40

Because of the variability of typical karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil/rock model by the design-build team is required. A unit weight for rock = 140 pcf and unconfined compressive strength of rock q_u = 2,000 psi must be used for LPILE strong rock input.

ITEM 8215-0006-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-25922

2.a.1.Spread Footings & 2.a.2.Drilled Caisson:

Design Case	Design Boring	Station Limits	Description	Average SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Recommended in Standard Special Provision 8215
Case A	NW6-1	286+86.63 to 290+00	Silty Gravel	43	0.0-6.0	γ =130 pcf, c= 0 psi $\phi = 40^0$
			Clay	22	6.0-10.5	γ =120 pcf, c= 1000 psf $\phi = 0^0$
			Poorly Graded Sand	22	10.5-19.5	γ =120 pcf, c= 0 psi $\phi = 35^0$
			Sandy Clay	21	19.5-22.5	γ =120 pcf, c= 1000 psf $\phi = 0^0$
			Clayey Silt	16	22.5-27.0	γ =115 pcf, c= 0 psi $\phi = 30^0$
Case B	NW6-2	290+00 to 292+00	Silt	27	0.0-4.5	γ =125 pcf, c= 0 psi $\phi = 35^0$
			Silty Gravel	49	4.5-10.5	γ =130 pcf, c= 0 psi $\phi = 40^0$
			Clay	17	10.5-19.0	γ =120 pcf, c= 1000 psf $\phi = 0^0$
			Silty Gravel	>50	19.0-28.8	γ =130 pcf, c= 0 psi $\phi = 40^0$
Case C	NW6-3	292+00 to 294+00	Sandy Silt	30	0.0-7.5	γ =130 pcf, c= 0 psi $\phi = 35^0$
			Silty Gravel	29	7.5-19.5	γ =130 pcf, c= 0 psi $\phi = 35^0$
			Very Dense Silty Gravel	>50	19.5-30.1	γ =130 pcf, c= 0 psi $\phi = 40^0$
Case D	NW6-4	294+00 to 296+00	Silty Sand	21	0.0-6.0	γ =120 pcf, c= 0 psi $\phi = 35^0$
			Silty Gravel	>50	6.0-12.0	γ =130 pcf, c= 0 psi $\phi = 40^0$
			Sandy Silt	>50	12.0-18.0	γ =130 pcf, c= 0 psi $\phi = 40^0$
			Silty Gravel	>50	18.0-27.0	γ =130 pcf, c= 0 psi $\phi = 40^0$
Case E	NW6-5	296+00 to 298+25	Sandy Silt	19	0.0-25.0	γ =120 pcf, c= 0 psi $\phi = 35^0$
			Dolomite	NA	Below 25.0	C_o = 5,800 psi
Case F	NW6-6	298+25 to 300+25	Silt	15	0.0-27.5	γ =115 pcf, c= 0 psi $\phi = 35^0$
			Silty Sand	29	27.5-30.0	γ =130 pcf, c= 0 psi $\phi = 35^0$
Case G	NW6-7	300+25 to	Silt	>50	0.0-15.0	γ =130 pcf, c= 0 psi

		302+50				$\phi = 40^0$
			Clay	23	15.0-31.0	γ =120 pcf, c= 1000 psf $\phi = 0^0$
Case H	NW6-8	302+50 to 304+50	Silt/Gravel	38	0.0-4.5	γ =125 pcf, c= 0 psi $\phi = 40^0$
			Clay	23	4.5-7.5	γ =120 pcf, c= 1000 psf $\phi = 0^0$
			Silty Gravel	39	7.5-19.2	γ =130 pcf, c= 0 psi $\phi = 40^0$
			Clay	8	19.2-31.0	γ =120 pcf, c= 1000 psf $\phi = 0^0$
			Limestone	NA	Below 31.0	C_o = 5,800 psi
Case I	NW6-9	304+50 to 306+50	Clay	14	0.0-12.5	γ =120 pcf, c= 1000 psf $\phi = 0^0$
			Sandy Gravel	25	12.5-21.0	γ =130 pcf, c= 0 psi $\phi = 35^0$
			Limestone	NA	Below 21.0	C_o = 5,800 psi
Case J	NW6-10	306+50 to 308+50	Silt	13	0.0-22.5	γ =115 pcf, c= 0 psi $\phi = 35^0$
			Silty Gravel	2	22.5-26.0	γ =100 pcf, c= 0 psi $\phi = 30^0$
			Limestone	NA	Below 26.0	C_o = 5,800 psi
Case K	NW6-11	308+50 to 310+75	Clay	14	0.0-17.0	γ =120 pcf, c= 1000 psf $\phi = 0^0$
			Limestone	NA	Below 17.0	C_o = 5,800 psi
Case L	NW6-12	310+75 to 313+00	Silt	16	0.0-22.0	γ =115 pcf, c= 0 psi $\phi = 35^0$
			Limestone	NA	Below 22.0	C_o = 5,800 psi
Case M	NW6-13	313+00 to 315+06.5	Clay	16	0.0-3.0	γ =120 pcf, c= 1000 psf $\phi = 0^0$
			Limestone	NA	Below 3.0	C_o = 5,800 psi

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion,
C_o: Uniaxial Compressive Strength of Intact Rock Samples

2.b.2. Drilled Shaft

Design Case	Design Boring	Station Limits	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Required in Standard Special Provision 8215	
Case A	NW6-1	286+86.63 to 290+00	Submerged Reese Sand	0.0 - 6.0	k = 85 pci	Groundwater Depth Below Final Grade: 0 ft (At Ground Surface) Design Slope = Flat
			Stiff Clay w. Free Water	6.0 - 10.5	k = 500 pci E_{50} = 0.005	
			Submerged Reese Sand	10.5 - 19.5	k = 60 pci	
			Stiff Clay w. Free Water	19.5 - 22.5	k = 500 pci E_{50} = 0.005	
			Submerged Reese Sand	22.5 - 27.0	k = 55 pci	
Case B	NW6-2	290+00 to 292+00	Reese Sand Above Groundwater	0.0 - 4.5	k = 95 pci	Groundwater Depth Below Final Grade: 4.5 ft Design Slope = 2H:1V
			Submerged Reese Sand	4.5 - 10.5	k = 90 pci	
			Stiff Clay w. Free Water	10.5 - 19.0	k = 500 pci E_{50} = 0.005	
			Submerged Reese Sand	19.0 - 28.8	k = 105 pci	
Case C	NW6-3	292+00 to 294+00	Reese Sand Above Water Table	0.0 - 7.5	k = 105 pci	Groundwater Depth Below Final Grade: 7.5 ft Design Slope = 2H:1V
			Submerged Reese Sand	7.5 - 19.5	k = 70 pci	
			Submerged Reese Sand	19.5 - 30.1	k = 105 pci	
Case D	NW6-4	294+00 to 296+00	Reese Sand Above Groundwater	0.0 - 6.0	k = 90 pci	Groundwater Depth Below Final Grade: 12.0 ft Design Slope = 2H:1V
			Reese Sand Above Groundwater	6.0 - 12.0	k = 150 pci	
			Submerged Reese Sand	12.0 - 18.0	k = 105 pci	
			Submerged Reese Sand	18.0 - 27.0	k = 105 pci	
Case E	NW6-5	296+00 to 298+25	Reese Sand Above Groundwater	0.0 -15.0	k = 90 pci	Groundwater Depth Below Final Grade: 15.0 ft Design Slope = 2H:1V

			Submerged Reese Sand	15.0 - 25.0	k = 60 pci	
			Strong Rock (Vuggy Limestone)	Below 25.0	NA	
Case F	NW6-6	298+25 to 300+25	Reese Sand Above Groundwater	0.0 - 15.0	k = 80 pci	Groundwater Depth Below Final Grade: 15.0 ft Design Slope = 2H:1V
			Submerged Reese Sand	15.0 - 27.5	k = 50 pci	
			Submerged Reese Sand	27.5 - 30.0	k = 75 pci	
Case G	NW6-7	300+25 to 302+50	Reese Sand Above Groundwater	0.0 - 15.0	k = 130 pci	Groundwater Depth Below Final Grade: 15.0 ft Design Slope = 2H:1V
			Stiff Clay w. Free Water	15.0 - 31.0	k = 500 pci E_{50} = 0.005	
Case H	NW6-8	302+50 to 304+50	Reese Sand Above Groundwater	0.0 - 4.5	k = 105 pci	Groundwater Depth Below Final Grade: 7.5 ft Design Slope = 2H:1V
			Reese Stiff Clay without Free Water	4.5 - 7.5	E_{50} = 0.005	
			Submerged Reese Sand	7.5 - 19.2	k = 80 pci	
			Stiff Clay w. Free Water	19.2 - 31.0	k = 300 pci E_{50} = 0.007	
			Strong Rock (Vuggy Limestone)	Below 31.0	NA	
Case I	NW6-9	304+50 to 306+50	Stiff Clay without Free Water	0.0 - 7.5	E_{50} = 0.007	Groundwater Depth Below Final Grade: 7.5 ft Design Slope = 2H:1V
			Stiff Clay w. Free Water	7.5 - 12.5	k = 500 pci E_{50} = 0.007	
			Submerged Reese Sand	12.5 - 21.0	k = 75 pci	
			Strong Rock (Vuggy Limestone)	Below 21.0	NA	
Case J	NW6-10	306+50 to 308+50	Reese Sand Above Groundwater	0.0 - 15.0	k = 75 pci	Groundwater Depth Below Final Grade: 15.0 ft Design Slope = 2H:1V

			Submerged Reese Sand	15.0 - 22.5	k = 50 pci	
			Submerged Reese Sand	22.5 - 26.0	k = 20 pci	
			Strong Rock (Vuggy Limestone)	Below 26.0	NA	
Case K	NW6-11	308+50 to 310+75	Stiff Clay without Free Water	0.0 - 17.0	E_{50} = 0.007	Groundwater Depth Below Final Grade: 17.0 ft Design Slope = 2H:1V
			Strong Rock (Vuggy Limestone)	Below 17.0	NA	
Case L	NW6-12	310+75 to 313+00	Reese Sand Above Groundwater	0.0 -15.0	k = 80 pci	Groundwater Depth Below Final Grade: 15.0 ft Design Slope = 2H:1V
			Submerged Reese Sand	15.0 - 22.0	k = 55 pci	
			Strong Rock (Vuggy Limestone)	Below 22.0	NA	
Case M	NW6-13	313+00 to 315+06.5	Stiff Clay without Free Water	0.0 - 3.0	E_{50} = 0.005	Groundwater Depth Below Final Grade: 15.0 ft Design Slope = 2H:1V
			Strong Rock (Vuggy Limestone)	Below 3.0	NA	

Notes k: Subgrade reaction modulus; E_{50}: strain at 50% shear strength for stiff clay.

The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design. Estimate the length of drilled shaft by considering a maximum allowable lateral deflection of ½ inch at the caisson top for the applied loads.

For limestone bedrock considered, a unit weight of 140 pcf and an unconfined compressive strength of rock q_u = 2,000 psi must be used for LPILE strong rock input.

Because of the variability of typical karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil/rock model by the design-build team is required.

ITEM 8215-0007-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-31039

2.a.1.Spread Footings & 2.a.2.Drilled Caisson:

Design Case	Applicable Borings	Design Boring	Station Limits (Ramp M/ Mainline)	Description	Average SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Recommended in Standard Special Provision 8215
Case A	NW7-1	NW7-1	15+37 to 16+00/ 318+84 to 318+29	Medium Dense Silty Gravel	17	0.0 -6.0	γ =120 pcf, C=0 psi $\phi = 32^0$
				Dense Silty Sand	46	6.0 – 17.0	γ =125 pcf, C=0 psi $\phi = 35^0$
				Weak Siltstone *	NA	Below 17.0	γ =130 pcf, C=0 psi, $\phi = 40^0$ C_0 = 800 psi
Case B	NW7-2	NW7-2	16+00 to 18+00/ 318+29 to 316+42	Medium Silt with Sand and Sandy Silt	14	0.0-21.0	γ =120 pcf, C=0 psi $\phi = 32^0$
				Loose Silt with Sand	8	21.0-39.0	γ =120 pcf, C=0 psi $\phi = 29^0$
Case C	B4-7	B4-7	18+00 to 18+55/ 316+42 to 315+88	Medium Silty Sand with Gravel	24	0.0-12.0	γ =120 pcf, C=0 psi $\phi = 32^0$
				Dense Silt with Sand	36	12.0-60.0	γ =125 pcf, C=0 psi $\phi = 34^0$

Note: γ : Unit Weight of Soil or Rock. φ : Internal Friction Angle of Soil. C : Cohesion.
C_0 : Uniaxial Compressive Strength of Intact Rock.

* See Note 2 of the table 2.b.2 for additional soil properties for drilled shaft design.

2.b.2. Drilled Shaft

Design Case	Applicable Boring(s)	Design Boring	Station Limits (Ramp M/ Mainline)	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Recommended in Standard Special Provision 8215	
Case A	NW7-1	NW7-1	15+37 to 16+00/ 318+84 to 318+29	Medium Reese Sand Above Water Table	0 -6.0	k = 75 pci	Groundwater Depth Below Final Grade: 14 ft Design Slope = 4H:1V
				Dense Reese Sand Above Water Table	6.0-14.0	k = 150 pci	
				Dense Reese Sand Below Water Table	14.0-17.0	k = 125 pci	
				Dense Reese Sand Below Water Table	Below 17.0	k = 200 pci	
Case B	NW7-2	NW7-2	16+00 to 18+00/ 318+29 to 316+42	Medium Reese Sand Above the Water Table	0 -16.5	k = 75 pci	Groundwater Depth Below Final Grade: 16.5 ft Design Slope = 4H:1V
				Medium Reese Sand Below the Water Table	16.5-21.0	k = 60 pci	
				Loose Reese Sand Below Water Table	Below 21.0	k = 20 pci	
Case C	B4-7	B4-7	18+00 to 18+55/ 316+42 to 315+88	Medium Reese Sand Above Water Table	0-12.0	k = 75 pci	Groundwater Depth Below Final Grade: 20.5 ft Design Slope = 2H:1V
				Dense Reese Sand Above Water Table	12.0-20.5	k = 150 pci	
				Dense Reese Sand Below Water Table	Below 20.5	k = 125 pci	

Notes: k: Subgrade reaction modulus

1. The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design.

2. Rock is anticipated at or below the following depths based on borings NW7-1 and B4-7.

   For Case A: 16.8 ft below the existing ground surface between station 15+37 and station 16+00

   For Case C: 34 ft below the existing ground surface between station 18+00 and 18+55

Because of the variability of typical karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil/rock model by the design-build team is required. A unit weight for rock = 140 pcf and unconfined compressive strength of rock q_u = 2,000 psi for limestone (strong rock) and q_u = 800 psi for siltstone (weak rock) must be used for LPILE input.

ITEM 8215-0008-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-31601

2.a.1.Spread Footings & 2.a.2.Drilled Caisson:

Design Case	Applicable Borings	Design Boring	Station Limits (SR 202)	Description	Average SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Recommended in Standard Special Provision 8215
Case A NW8A	NW8-1	NW8-1	320+22 to 321+75	Medium Dense Sandy Silt and Gravel (Fill)	11	0-21.0	γ =120 pcf, c=0 psi $\phi = 30^0$
				Medium Dense Silt with Sand and Sandy Gravel (Residual)	19	Below 21.0	γ =125 pcf, c=0 psi $\phi = 32^0$
Case B NW8A	NW8-2, B5-6	NW8-2	321+75 to 323+26	Loose Silt with Sand (Fill)	8	0.0-10.5	γ =115 pcf, c=0 psi $\phi = 29^0$
				Very Stiff Clay (Fill)	18	10.5-15.0	γ =120 pcf, c=7 psi $\phi = 0^0$
				Very Dense Sandy Gravel	58	Below 15.0	γ =130 pcf, c=0 psi $\phi = 38^0$
Case C NW8B	NW8-3, NW8-4, B5-12	B5-12	325+46 to 329+37	Medium Dense Sandy Silt and Silt with Sand (Fill)	24	0-19.0	γ =120 pcf, c=0 psi $\phi = 32^0$
				Medium Dense Silty Sand and Sandy Silt	36	Below 19.0	γ =125 pcf, c=0 psi $\phi = 33^0$

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion.

2.b.2. Drilled Shaft

Design Case	Applicable Boring(s)	Design Boring	Station Limits (SR 202)	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Recommended in Standard Special Provision 8215	
Case A NW8A	NW8-1	NW8-1	320+22 to 321+75	Medium Reese Sand Above Water Table	0-21.0	k = 75 pci	Groundwater Depth Below Final Grade: 21.0 ft Design Slope = 2.5H:1V
				Medium Reese Sand Below the Water Table	Below 21.0	k = 60 pci	
Case B NW8A	NW8-2 B5-6	NW8-2	321+75 to 323+26	Loose Silt with Sand (Fill)	0.0 -10.5	k = 25 pci	Groundwater Depth Below Final Grade:22 ft Design Slope = 3H:1V
				Stiff Clay Above Water Table	10.5-15.0	k = 500 pci E_{50}=0.007	
				Dense Reese Sand Above Water Table	15.0-22.0	k = 200 pci	
				Dense Reese Sand Below the Water Table	Below 22.0	k = 125 pci	
Case A NW8B	NW8-3, NW8-4, B5-12	B5-12	325+46 to 329+37	Medium Reese Sand Above Water Table	0-19.0	k = 75 pci	Groundwater Depth Below Final Grade:19 ft Design Slope = 3H:1V
				Medium Reese Sand Below the Water Table	Below 19.0	k = 60 pci	

Notes: k: Subgrade reaction modulus; E_{50}: strain at 50% shear strength for stiff clay

1. The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design.
2. NW8A: Rock was not encountered in borings NW8-1and NW8-2 with termination depths of 30 feet. Rock was not encountered in boring B5-6 with a termination depth of 110 feet

   NW8B: Rock was encountered at depths of 15.7 and 36.1 feet in borings NW8-3 and B5-12, respectively. However, SPTs and/or soil cores were conducted below initial core runs to the boring termination depths of 30 feet and 122 feet, respectively.

   Because of the variability of typical karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil/rock model by the design-build team is required. A unit weight for rock = 140 pcf and unconfined compressive strength of rock q_u = 2,000 psi for strong limestone rock must be used for LPILE input.

ITEM 8215-0091-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-31040

2.a.1.Spread Footings & 2.a.2.Drilled Caisson:

Design Case	Applicable Borings	Design Boring	Station Limits (SR 401/ Ramp O)	Description	Average SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Recommended in Standard Special Provision 8215
Case A	NW9-1	NW9-1	19+89 to 21+72 24+90 to 23+00	Medium Dense Silt and Silty Gravel (Fill)	16	0.0 -6.0	γ =120 pcf, c=0 psi $\phi = 31^0$
				Medium Dense Well Graded Sand and Sandy Silt (Alluvium/ Residual)	22	Below 6.0	γ =125 pcf, c=0 psi $\phi = 32^0$
Case B	NW9-2	NW9-2	21+72 23+58/ 23+00 to 21+00	Dense Silty Gravel (Fill)	32	0.0-4.5	γ =125 pcf, c=0 psi $\phi = 34^0$
				Medium Dense Gravel and Sand (Alluvium)	26	4.5-13.5	γ =125 pcf, c=0 psi $\phi = 32^0$
				Very Dense Sand (Residual)	60	Below 13.5	γ =130 pcf, c=0 psi $\phi = 38^0$

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion.

2.b.2. Drilled Shaft

Design Case	Applicable Boring(s)	Design Boring	Station Limits (SR 401/ Ramp O)	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Recommended in Standard Special Provision 8215	
Case A	NW9-1	NW9-1	19+89 to 21+72 24+90 to 23+00	Medium Reese Sand Above Water Table	0.0 -6.0	k = 75 pci	Groundwater Depth Below Final Grade: 6.0 ft Design Slope = 5H:1V
				Medium Reese Sand Below the Water Table	Below 6.0	k = 60 pci	
Case B	NW9-2	NW9-2	21+72 23+58/ 23+00 to 21+00	Dense Reese Sand Below the Water Table	0.0 -4.5	k = 100 pci	Groundwater Depth Below Final Grade:0 ft Design Slope = 5H:1V
				Medium Reese Sand Below the Water Table	4.5-13.5	k = 60 pci	
				Dense Reese Sand Below the Water Table	Below 13.5	k = 125 pci	

Notes: k: Subgrade reaction modulus

1. The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design.

2. Rock was not encountered in borings NW9-1and NW9-2 with termination depths of 30 feet.

   Because of the variability of typical karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil/rock model by the design-build team is required. A unit weight for rock = 140 pcf and unconfined compressive strength of rock q_u = 2,000 psi for limestone must be used for LPILE (strong rock) input.

ITEM 8215-0092-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-31037

2.a.1. Spread Footings & 2.a.2.Drilled Caisson:

Design Case	Applicable Borings	Design Boring	Station Limits (Ramp O)	Description	Design SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Recommended in Standard Special Provision 8215
Case A	NW9-4	NW9-4	11+83 to 13+80	Loose Silt	10	0.0 -6.0	γ =120 pcf, c=0 psi $\phi = 30^0$
				Dense Well Graded Gravel with Sand	33	6.0-9.0	γ =120 pcf, c=0 psi $\phi = 33^0$
				Medium Dense Silty Sand	27	9.0-12.0	γ =125 pcf, c=0 psi $\phi = 32^0$
				Very Dense Gravel and Weathered Rock	50	Below 12.0	γ =130 pcf, c=0 psi $\phi = 38^0$
Case B	NW9-3	NW9-3	13+80 to 15+35	Medium Dense Silt	17	0.0 -9.0	γ =120 pcf, c=0 psi $\phi = 30^0$
				Dense Well Graded Gravel and Silty Gravel	44	9.0-15.0	γ =125 pcf, c=0 psi $\phi = 35^0$
				Medium Dense Silty Sand	29	15.0-18.0	γ =125 pcf, c=0 psi $\phi = 32^0$
				Dense Gravel and Sand	49	Below 18.0	γ =130 pcf, c=0 psi $\phi = 38^0$

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion.

2.b.2. Drilled Shaft

Design Case	Applicable Boring(s)	Design Boring	Station Limits	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Recommended in Standard Special Provision 8215	
Case A	NW9-4	NW9-4	11+83 to 13+80	Loose Reese Sand Above the Water Table	0.0 -6.0	k = 25 pci	Groundwater Depth Below Final Grade: 9.0 ft Design Slope = 4H:1V
				Medium Reese Sand Above Water Table	6.0-9.0	k = 90 pci	
				Medium Reese Sand Below Water Table	9.0-12.0	k = 60 pci	
				Dense Reese Sand Below Water Table (Weak Rock)	Below 12.0 (2)	k = 125 pci	
Case B	NW9-3	NW9-3	13+80 to 15+35	Loose Reese Sand Above the Water Table	0.0-9.0	k = 25 pci	Groundwater Depth Below Final Grade: 9.0 ft Design Slope = 4H:1V
				Dense Reese Sand Below Water Table	9.0-15.0	k = 90 pci	
				Medium Reese Sand Below Water Table	15.0-18.0	k = 60 pci	
				Dense Reese Sand Below Water Table	Below 18.0 (2)	k = 125 pci	

Notes: k: Subgrade reaction modulus

1. The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design.

2. Rock is anticipated at the following depths based on borings NW9-3 and NW9-4:

   For Case A: approximately 13.5 ft below the ground between station 11+35 and station 13+80

   For Case B: approximately 26 ft below the ground surface between station 13+80 and 15+35.

   Because of the variability of typical Karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil/rock model by the design-build team is required. A unit weight for rock = 140 pcf and unconfined compressive strength of rock q_u = 2,000 psi must be used for LPILE strong rock input, if applicable.

ITEM 8215-0010-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-25738

2.a.1. Spread Footings & 2.a.2.Drilled Caisson:

Design Case	Design Boring	Station Limits	Description	Average SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Recommended in Standard Special Provision 8215
Case A	NW10-1	326+45 to 328+50	Gravelly Silt	30	0.0-20.0	γ =130 pcf, c= 0 psi $\phi = 35^0$
			Rock	-	Below 20.0	C_o = 5,800 psi*
Case B	NW10-2	328+50 to 330+62	Silty Gravel	9	0.0-11.0	γ =110 pcf, c= 0 psi $\phi = 30^0$
			Sandy Silt	7	11.0-16.5	γ =110 pcf, c= 0 psi $\phi = 30^0$
			Sandy Clay	15	16.5-19.5	γ =120 pcf, c= 1000 psf $\phi = 0^0$
			Silty Sand	28	19.5-28.5	γ =120 pcf, c= 0 psi $\phi = 35^0$

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion, C_o: Uniaxial Compressive Strength of Intact Rock Samples.

2.b.2. Drilled Shaft

Design Case	Applicable Borings	Design Boring	Station Limits	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Required in Standard Special Provision 8215	
Case A	NW10-1	NW10-1	326+45 to 328+50	Reese Sand Above Groundwater	0.0 - 14.0	k = 110 pci	Groundwater Depth Below Final Grade: 14 ft Design Slope = 2H:1V
				Submerged Reese Sand	14.0 - 20.0	k = 75 pci	
				Strong Rock (Vuggy Limestone)	Below 20.0	NA	
Case B	NW10-2	NW10-2	328+50 to 330+62	Reese Sand Above Groundwater	0.0 - 11.0	k = 40 pci	Groundwater Depth Below Final Grade: 11 ft Design Slope = 3H:1V
				Submerged Reese Sand	11.0 - 16.5	k = 20 pci	
				Stiff Clay w. Free Water	16.5 - 19.5	k = 500 pci E_{50}=0.01	
				Submerged Reese Sand	19.5 - 28.5	k = 75 pci	

Notes: k: Subgrade reaction modulus; E_{50}: strain at 50% shear strength for stiff clay

The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design. Estimate the length of drilled shaft by considering a maximum allowable lateral deflection of ½ inch at the caisson top for the applied loads.

For limestone bedrock considered, a unit weight of 140 pcf and an unconfined compressive strength of rock q_u = 2,000 psi must be used for LPILE strong rock input.

Consider groundwater, top of rock elevation, utilities, ground slope and existing box culvert located at station 328+50 while evaluating foundation options.

Because of the variability of typical karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil/rock model by the design-build team is required.

ITEM 8215-0011-DESIGN OF NOISE BARRIER (AS DESIGNED FOUNDATION PROVIDED), S-26764

2.a.1.Spread Footings & 2.a.2.Drilled Caisson:

Design Case	Applicable Borings	Boring Referred	Station Limits	Description	Average SPT N Values	Depth Below The Final Grade (ft)	Design Parameters As Required in Standard Special Provision 8215
Case A	NW11-1/1A, NW11-7 & B6-6	NW11-1/1A	11+90 to 14+25 & 26+00 to 29+90	Silty Gravel	28	0.0 -7.5	γ =120 pcf, c=0 psi $\phi = 34^0$
				Silty Sand	17	7.5-16.5	γ =120 pcf, c=0 psi $\phi = 32^0$
				Clayey Gravel	30	Below 16.5	γ =125 pcf, c=0 psi $\phi = 36^0$
Case B	NW11-2	NW11-2	14+25 to 16+75	Stiff Clay	30	0.0-16.5	γ =120 pcf, c=7 psi $\phi = 0^0$
				Weathered rock	>100	Below 16.5	γ =125 pcf, c=0 psi $\phi = 36^0$
Case C	NW11-3 & NW11-4	NW11-4	16+75 to 21+50	Silty Sand w. Gravel	24	0.0-7.5	γ =120 pcf, c=0 psi $\phi = 32^0$
				Weathered rock	>100	Below 7.5	γ =125 pcf, c=0 psi $\phi = 36^0$
Case D	NW11-5 & NW11-6	NW11-5	21+50 to 26+00	Sandy Gravel	9	0.0-5.0	γ =115 pcf, c=0 psi $\phi = 28^0$
				Stiff Clay	8	5.0-11.5	γ =115 pcf, c=5 psi $\phi = 0^0$
				Weathered rock	>50	Below 11.5	γ =125 pcf, c=0 psi $\phi = 36^0$

Note: γ: Unit Weight of Soil or Rock, ϕ: Internal Friction Angle of Soil, c: Soil Cohesion

2.b.2. Drilled Shaft

Design Case	Applicable Boring	Design Boring	Station Limits	Soil/Rock Model	Depth Below The Final Grade (ft)	Foundation Design Information As Required in Standard Special Provision 8215	
Case A	NW11-1/1A, NW11-7 & B6-6	NW11-1/1A	11+90 to 14+25 & 26+00 to 29+90	Submerged Reese Sand	0.0 -7.5	k = 60 pci	Groundwater Depth Below Final Grade: 0.0 ft Design Slope = 4H:1V
				Submerged Reese Sand	7.5-16.5	k = 45 pci	
				Submerged Reese Sand	Below 16.5	k = 100 pci	
Case B	NW11-2	NW11-2	14+25 to 16+75	Stiff Clay w. Free Water	0.0-16.5	k = 1000 pci E_{50}=0.007	Groundwater Depth Below Final Grade: 0.0 ft Design Slope = 4H:1V
				Submerged Reese Sand	Below 16.5	k = 125 pci	
Case C	NW11-3 & NW11-4	NW11-4	16+75 to 21+50	Reese Sand Above Water Table	0.0-7.5	k = 70 pci	Groundwater Depth Below Final Grade: 7.5 ft Design Slope = 2H:1V
				Submerged Reese Sand	Below 7.5	k = 100 pci	
Case D	NW11-5 & NW11-6	NW11-5	21+50 to 26+00	Submerged Reese Sand	0.0-5.0	k = 25 pci	Groundwater Depth Below Final Grade: 0.0 ft Design Slope = 4H:1V
				Stiff Clay w. Free Water	5.0-11.5	k = 1000 pci E_{50}=0.01	
				Submerged Reese Sand	Below 11.5	k = 100 pci	

Notes: k: Subgrade reaction modulus; E_{50}: strain at 50% shear strength for stiff clay

The parameters in the above table are intended for the drilled caisson foundation analysis and design input. Refer to Wang and Reese (1993) or LPILE (5.0) technical manual for the details of soil model information for the caisson length design.

Because of the variability of typical karst topography, it is anticipated that the bedrock depth is variable within the project limit. If rock depth encountered during the construction is significantly different from the soil models provided in the table, the re-evaluation of the soil/rock model by the design-build team is required. A unit weight for rock = 140 pcf and unconfined compressive strength of rock qu = 2,000 psi must be used for LPILE strong rock input.

US ROUTE 202 SECTION 300
Emergency Responders
INCIDENT MANAGEMENT PLAN

US ROUTE 202, SECTION 300 CONSTRUCTION PROJECT

April 2011

Prepared By the US 202 Section 300 Incident Management Committee

TABLE OF CONTENTS

I. CONFIDENTIALITY

All information contained herein shall be considered strictly confidential. It shall not be disseminated to any unauthorized party. Copies of this plan shall be destroyed upon completion of the project.

II. SITUATION

The Pennsylvania Department of Transportation began construction on Section 300 of US Route 202 in April of 2011. This 6.3 mile segment of Rt. 202 is located between the US Route 30 Bypass in East Whiteland Township and North Valley Road in Tredyffrin Township. Construction will involve reconstructing and widening this portion of US Rt. 202. The first phase of this project, Section 320, involves a 4 mile stretch of US 202 from just south of the Route 252 Interchange to just north of the Route 401 Interchange. Section 330, from Route 401 to US 30, is tentatively scheduled to begin construction in early 2013.

III. MISSION

The mission of the State Police and the Tredyffrin Township Police Department will be to provide assistance to the Pennsylvania Department of Transportation in ensuring overall traffic safety during the entire construction period and to serve as the lead agency in response to incidents in their respective jurisdictions. The primary objective at the scene of any incident shall be life safety, incident stabilization, property conservation and clearance of traffic lanes. The ranking Pennsylvania State Police member on scene shall serve as the Incident Commander for incidents in PSP primary area of jurisdiction. The ranking Tredyffrin Township Police Officer on scene shall serve as the Incident Commander for incidents in Tredyffrin Township.

Specific tasks for the State Police will include, but not limited to, the following:

1. Travel through the work zone at the start of each assignment to become familiar with the work zone and identify any potential hazards.

2. Ensure priority effort is given to queue monitoring/protection.

3. Conduct enforcement if no queue is present. Enforcement shall be within and no more than two miles prior to work zone.

4. Take appropriate police action on all police matters brought to their attention, and notify the PSP shift supervisor if the matter requires them to leave the work zone.

IV. INCIDENT DEFINITION

An incident is defined as any non-recurring event, such as traffic crashes, brush fires, or vehicle fires, which causes a reduction of roadway capacity or disrupts or stops the normal flow of traffic.

V. UNIFIED INCIDENT COMMAND SYSTEM

In accordance with the National Incident Management System (NIMS), agencies responding to incidents in the response area covered by this document will utilize a Unified Incident Command System. The first arriving emergency responder will establish command, identify a command post location, and don a reflective vest for identification. All other responding agencies will send a representative to the command post. The agencies will cooperate and work together for the safe and efficient mitigation of the emergency. The fire, EMS, police and DOT representatives will be expected to make decisions based on their experience and expertise in their respective fields to contribute to the successful conclusion of the incident. Any decisions made will be communicated to the other agency representatives to ensure the coordination of efforts. The Pennsylvania State Police (PSP) have jurisdiction over all incidents that occur on US Rt. 202 in East Whiteland Township. Tredyffrin Township Police Department shall have primary jurisdiction in the portion of US 202 that traverse Tredyffrin Township. In those areas in which PSP has primary jurisdiction, the senior responding trooper on the scene is the incident commander; in those areas in which Tredyffrin Police has primary jurisdiction, the senior responding officer from their department on the scene is the incident commander. As an incident evolves and additional senior ranking personnel arrive on scene, the transitioning of the role of incident commander should be accomplished in a seamless manner. In conformance with the Incident Management System (IMS), the senior fire department officer (FD) is designated as the Fire Branch (FB). This designation will be used throughout this document to define the responsibilities of the senior fire department officer. The Pennsylvania State Police (PSP) or the senior police official on scene will make the final determination with respect to any disputes which may arise.

VI. PRE-PLANNED COORDINATED RESPONSE

Responding agencies will have pre-plans in place to determine who responds upon receipt of an incident in each of the agencies respective jurisdictions. These will need to be modified as construction progresses in times of ramp closures.

VII. INCIDENT DETECTION AND VERIFICATION

Upon receipt of an incident, the preplanned dispatch will occur. One response vehicle (most likely to be State Police or Municipal Police) will enter the roadway, so not to commit additional vehicles to become grid locked in traffic. All units when responding will announce, on a common radio channel, their unit number and what location they are responding to. Construction personnel may be able to assist in detection and location verification and will relay this information to the PennDOT Regional Traffic Management Center in addition to the initial responding unit. The first responding unit will announce their exact location (mile marker) and provide a brief report on the common radio channel advising the nature of the incident, conditions, what agencies need to respond and the best access route.

VIII. RESPONDING TO THE SCENE

1. The first responder arriving at the scene of any highway incident will assume the role of Incident Commander. The command role is subject to change as additional responders arrive (Refer to paragraph V). The first arriving trooper/officer will establish command. Responsibilities of the Incident Commander include, but is not limited to:

    a. Evaluate the scene and determine the necessary resources to safely mitigate the incident such as EMS, Fire Departments, etc. Any unneeded resources will be directed to stage off the highway.

    b. Survey the scene for any hazards that may arise during the incident such has hazardous spills, unstable structures, etc. Immediately dispatch necessary resources to address potential hazards.

    c. Designate Emergency Access Points to allow responding agencies to gain access to the scene, in the event the roadway is blocked, via the shoulder, an adjacent roadway, infield or parking lot that borders the roadway.

    d. Activate the IMS, establish a Command Post staffed by representatives of operating units / agencies (Police, DOT, EMS, etc.), designate staging areas for responding agencies and assign division/group officers.

    e. Don an approved incident management vest for identification purposes.

    f. Establish an “action circle” (20’ radius if possible) by use of traffic cones or other appropriate barrier, around each vehicle involved. Only assigned personnel should be inside the action circle.

g. Designate an equipment staging area and a personnel pool at the edge of each action circle. Personnel will return to the personnel pool upon completion of assigned tasks.

2. Only official emergency vehicles, as defined by the PA Vehicle Code, will be permitted on the highway.

3. A minimum of two troopers/police officers is recommended to respond to the scene. One shall have the primary responsibility of Traffic Control while the other shall be responsible for the investigation of the incident. Additional troopers/officers may assist in either capacity.

4. A minimum crew of four firefighters is recommended for apparatus responding to incidents on the highway. Companies should be assigned responsibility for a specific area of the highway and should be directed to enter the highway via a designated ramp. Absent extenuating circumstances, or specific orders to the contrary, companies will utilize their assigned entry ramp whenever responding to incidents on the highway. Responding apparatus will transmit their response via radio on the designated radio channel, and will communicate the total number of responders on their apparatus (e.g. “Engine 53 is responding with four”). As a general rule, full size apparatus should utilize normal entrances and exits to reverse their direction of travel. Use of the median or paved U-Turns should be reserved for life threatening emergencies and extenuating circumstances. Apparatus will communicate via radio when entering the highway (e.g. “Engine 53 is entering the highway). An additional full size apparatus may enter the highway in the reported direction of travel. This apparatus will stage on the shoulder prior to the incident scene and prepare to act as a blocker if needed allowing for sufficient warning distance. The remainder of responding apparatus shall stage off the highway in the area of their assigned entry ramp. Apparatus will position in such a manner to allow a route of travel for arriving and departing EMS vehicles. Only necessary apparatus will be positioned close to the scene.

5. During construction, due to limited space, it is advisable for responding units to stage at their respective entrance ramps or at adjacent access points and respond as requested by the on-scene Incident Commander. Units that will be standing by should announce when they arrive as their location (ex: *Engine 6 standing by at Rt. 401 on-ramp, northbound*). Units will be called to the scene as needed and respond as directed. After determining what units are required, the Incident Commander should release units that are not needed.

6. The FB should attempt to identify the senior trooper or police officer and EMS member at the scene and request their presence at the command post to ensure a unified management system.

7. Operators of all emergency response vehicles shall position their vehicles in a manner that best ensures a safe work area. Vehicles shall be positioned to protect the incident scene, victims and responders. Consideration should be given to traffic flow and to providing an avenue for additional responders and resources to access the scene. Except in extreme life safety situation, no one is to stop in the lanes traveling in the opposite direction. Response shall be in the normal direction, unless the incident commander on the scene or the Traffic Control Center can confirm that traffic in the opposite direction has been stopped and no civilian vehicles will be encountered.

8. Responding emergency vehicles shall cancel any warning lights, which impair the vision of approaching traffic (i.e. headlights, spotlights, clear warning lights, etc.).

9. When possible, responders should exit their vehicles on the side opposite the traffic flow. Personnel should always check for approaching traffic before exiting.

10. A sufficient safety zone should be employed around the emergency vehicles to allow responders to remove necessary equipment from the vehicle without being exposed to passing traffic.

IX. TRAFFIC CONTROL

1. As a general rule, traffic control is the responsibility of the PSP or the respective municipal police department. If the above agencies are not present, it is the responsibility of initial responders to establish measures to safely guide traffic around an incident scene or, if necessary, to stop the flow of traffic. The closing of additional lanes not affected by the accident, to include on and off ramps, shall require the approval of PSP or the municipal Police Department.

2. Personnel should face traffic at all times when placing and retrieving traffic control devices. Traffic cones, flares, and/or emergency vehicles are commonly used for this purpose.

3. Traffic should never be allowed to pass an incident scene on both sides of emergency workers. The traffic should be diverted to the left or the right of the scene.

4. For incidents which occur during light traffic conditions, when vehicles are approaching the scene at a higher rate of speed, at least one “buffer lane” should be provided between operating personnel and passing traffic.

5. The FB should consider designating a full size fire apparatus to act as a blocker vehicle, thereby providing a physical barrier between emergency workers and passing traffic. This is especially important during times of low traffic volume,

when vehicles are traveling at higher speeds. A cone taper of a sufficient distance to adequately warn approaching traffic should be deployed upstream of the blocking apparatus.

6. The FB is responsible for appointing a safety officer. The safety officer is responsible for ensuring the safety of all personnel operating on the scene and should assume primary responsibility for ensuring that proper traffic controls have been established.

7. The contractor, R.E. Pierson Construction, will assist with incident management in the construction zone, pursuant to Item 9999-9980, titled "Incident Management", in the PennDOT ECMS Highway Construction Contract. Under the guidelines of this contractual item, the contractor will coordinate the use of existing Dynamic Messaging Signs (DMS) and the CMS included in the contract to convey traffic alert messages to motorists for incidents occurring within the work zone. From Monday thru Friday, from 6:00 a.m. to 8:00 p.m., the contractors' incident management designee(s) will respond to an incident within 15 minutes. Upon arrival at the incident site, that employee(s) must have the equipment and resources to set up temporary traffic control, or otherwise resolve the incident. On all other days and at all other times, the contractor must have at least one employee on call that can respond to an incident within 45 minutes. Upon arrival at the incident site, that employee(s) must have the equipment and resources to set up temporary traffic control, or otherwise resolve the incident. The contractor's incident management equipment will be staged at:

   R.E. Pierson's US Route 202 Field Office
   Ramp E Infield
   211 Swedesford Road
   Malvern, PA 19355

X. DETOURS

Emergency responders along US 202 Section 300 will utilize the official detour routes established by PennDOT and the Delaware Valley Regional Planning Commission (DVRPC) for the Interactive Detour Route Mapping (IDRuM) software. These detour routes are attached to this document. "Attachment 1" shows the detour routes for incidents along US 202 Section 320, and "Attachment 2" displays the detour routes for incidents along US 202 Section 330.

XI. COMMUNICATIONS

In order to ensure that all responding agencies are kept abreast of the incident location, conditions and what is needed, all communication will be transmitted on a unified channel allowing direct communications with all responding agencies to include PSP, local police, fire, EMS, towing agency, traffic control center and PennDOT engineers. Communications will be coordinated by the Chester County Department of Emergency Services. Responding agencies will communicate on a designated 800MHZ frequency as determined by the Chester County Department of Emergency Services. PSP will utilize their pre-set interoperability and contact Chester County Radio and request a "patch over" to communicate with other responding agencies.

Plain-speak transmissions will be utilized, ("Pierce to Moore", "Pierce to Command Post (or CP)", etc.). No "10" codes shall not be utilized.

XII. EMERGENCY TOWING

EVB Towing is the contracted towing service for the US Rt. 202 construction project, and shall have a Class 1 tow truck in the construction zone on a 24-hour basis at the beginning of Stage 2 of Section 320. Initial contact for an incident requiring a towing vehicle shall be made to the RTMC, which will subsequently contact the tow truck in the construction zone. Arriving at the incident scene, the towing vehicle will be instructed to stand-by at a designated location off of the highway until they are directed by the Incident Commander to remove the involved vehicle(s) from the crash area. In addition to responding to traffic crashes, EVB Towing shall be readily available to remove disabled or abandoned vehicles within the construction zone. EVB Towing shall be equipped to handle commercial vehicles, trucks, buses and other heavy equipment. EVB Towing shall make a flat-bed tow truck and heavy vehicle wrecker available to respond to incidents. Mobilization of a flat-bed tow truck or heavy vehicle wrecker will be based on a request from the EVB Class 1 tow truck or the Incident Commander for any vehicle larger than a Class 1 or Class 2 as dictated by the Towing and Recovery Association of America (TRAA) Vehicle Identification Guide. If it is determined by EVB Towing, the RTMC, or the Incident Commander that EVB Towing cannot respond to the incident in the appropriate amount of time, a local towing company will be utilized.

XIII. REMOVAL OF ABANDONED VEHICLES

The authority for removal of abandoned vehicles from the roadway, including the shoulder and emergency pull-off areas, is given to the PSP and Tredyffrin Police by the PA Vehicle Code (Title 75), Section 7310. As Section 7310(a) notes, "Police officers may immediately remove or direct removal of any vehicle abandoned or presumed to be abandoned from any roadway, including the roadway's berm or

shoulder, to the nearest point off the roadway where the vehicle will not interfere with or obstruct traffic."

Upon location of an abandoned vehicle along the roadway or shoulder, the EVB tow truck operator shall notify the RTMC and then await the direction of the PSP or Tredyffrin Police for the vehicle's removal. As per the PA Vehicle Code (Title 75) Section 3352, the vehicle shall be removed to a nearby garage or place of safety. This drop-off location should also allow the tow truck operator convenient access to re-enter the construction zone. The tow truck operator will notify the RTMC of the drop-off location before re-entering the construction zone. At the direction of the PSP or Tredyffrin Police, abandoned vehicles located in the designated emergency pull-off areas along the project shall be removed by a local towing company to a secured off-site lot. Section 7310(c) holds that "in carrying out the provisions of this section, no liability shall attach to the police officer, or absent a showing of gross negligence, to any person acting under the direction of the police officer for damage to a presumed abandoned vehicle or damage to or loss of any portions of the contents of the vehicle."

XIV. HELICOPTER LANDING AREAS

In critical situations, a helicopter may be requested to respond to the scene to assist in the emergency transport of a victim(s). The helicopter's landing requires a minimum 10,000 square foot landing area, which should be designated and established prior to their arrival. Helicopter landing zones should be located off the highway whenever possible.

XV. FATALITIES

In all incidents involving fatalities along US 202 Section 300, first responders will adhere to the "Chester County Coroner's Death Scene Protocol" and PL 723, Section 4238, "Second and Second A Class Counties". In all cases where the coroner has jurisdiction to investigate the facts and circumstances of death, the body and its surroundings shall be left untouched until the coroner has had a view thereof or until the coroner shall otherwise direct or authorize, except as may be otherwise provided by law, or as circumstances may require. Bodies upon public thoroughfare or in other places may be removed as much as is necessary for precaution against traffic accidents or other serious consequences which might reasonably be anticipated if they were left intact." To expedite clearing of the roadway and to prevent additional crashes, PSP or Tredyffrin Police shall mark the locations and remove the victim prior to the arrival of the coroner.

XVI. QUICK INCIDENT CLEARANCE

Unnecessarily closing or keeping traffic lanes closed greatly increases the risk of secondary crashes occurring in the resulting back-up. While safety of emergency services personnel is of paramount concern for the Incident Commander, the flow of traffic must be taken into consideration at all times. The closing of the roadway disrupts traffic throughout the area as well as having a significant impact on business throughout the region.

XVII. DEPARTING THE SCENE

The termination of the incident must be managed with the same aggressiveness as initial actions. Emergency vehicles and equipment should be removed from the highway promptly to reduce exposure to moving traffic and minimize traffic congestion. Vehicle operators shall ensure that all equipment has been properly returned to the apparatus and all doors are closed and secure. Vehicles which must merge into traffic traveling at highway speeds should consider employing a police vehicle or other marked emergency vehicle to assist them by providing a slow down. Emergency warning lights should be canceled only after the vehicle has completely merged into traffic.

XVIII. RECOMMENDED EQUIPMENT

Agencies responsible for responding to incidents on limited access highways should consider the following safety related equipment for their vehicles:

1. A sufficient number of Class III Safety Vests for responding personnel.

2. A minimum of five (5) DOT approved reflective traffic cones (10 cones are preferable).

3. A minimum of one (1) case of traffic flares.

4. A lighted arrow stick or sign board, mounted as high as possible on the vehicle, for maximum visibility.

5. Addition of DOT approved reflective striping to the rear and sides of the Vehicle.

6. Minimum compliment of Basic First Aid equipment.

XIX. INCIDENT MANAGEMENT CONTACTS

PennDOT Engineering District 6-0	
Regional Traffic Management Center	610-205-3934
PennDOT Maintenance – Chester County 6-2	484-340-3200
Robert Pope, Resident Engineer	215-787-7050
David Metcalf, Consultant Project Manager	609-743-4144 (Cell)
Pennsylvania State Police, Embreeville Station	484-340-3241
Chester County Department of Emergency Services	610-344-5100
R.E. Pierson US Route 202 Field Office	610-644-6370
Joe Shahan	609-743-7174 (Cell)
Mark Polizzi	609-743-7109 (Cell)
Chris Howat	609-743-7184 (Cell)
Ralph Farabaugh	609-743-7096 (Cell)
Howard Pierson	609-743-7104 (Cell)
Traffic Subcontractors:	
EVB Towing 24/7 Dispatch	610-828-6522
Protection Services Inc.	215-572-6748
Local Police:	
East Whiteland Township Police	610-647-2100
Tredyffrin Township Police	610-647-1440
Upper Merion Township Police (Montgomery Co.)	610-644-6050
West Whiteland Township Police	610-363-0200
Willistown Township Police	610-251-0222
Fire/Rescue:	
Berwyn Fire Department	610-644-6050
East Whiteland Volunteer Fire Association	610-644-8558
King of Prussia Fire Department (Montgomery Co.)	610-265-5533
Malvern Fire Department	610-647-0693
Paoli Fire Department	610-644-1712

XX. INCIDENT DEBRIEFING

At the conclusion of each emergency incident, a debriefing shall be conducted to determine the effectiveness of the emergency response and to discuss what, if anything, could have been done differently to improve the overall management of the incident.

XXI. SUMMARY

Managing a highway incident and related problems is a TEAM effort. The primary objectives are caring for the injured, protecting the public, safety of emergency responders and a quick clearance of all traffic lanes. Improving the overall traffic incident management process will improve the safety of responding agency personnel, reduce the chance of an associated traffic crash and minimize the amount of apparatus and number of personnel responding onto the highway. Incidents range from minor to major with many agencies involved. Each responding agency has an important role to play in the management of an effective incident operation.

pennsylvania
DEPARTMENT OF TRANSPORTATION

REQUEST FOR CONSIDERATION FOR ENGINEERING INVOLVEMENT RESTRICTIONS

Fill in the following information as applicable:

Agreement Number _____ Contract Number _____ MPMS _____

District _____ County _____SR _____ Section _____

SPN _____ Allot. _____ FPN _____

Consultant _____ Local Municipality _____

Project Description _____

Involvement on Department Agreement ☐ Preliminary Engineering ☐ Preliminary Review

☐ Final Design ☐ PS&E Preparation ☐ Department Review

☐ Construction Inspection ☐ Other _____

Actual duties performed: _____

_____

_____

Were recommendations, deliverables, or services developed related to the subject project?
☐ Yes ☐ No (If yes, request will be denied)

Planned Involvement on Contractor Design-Build Team _____

_____

_____

Executive Summary why consultant feels a conflict of interest does not exist

_____

_____

_____

_____

CONSULTANT REPRESENTATIVE (authorizes that information provided is true and correct)

X_____ _____

Date Title

CONSULTANT AGREEMENT CHIEF ☐ Concur - Forward ☐ Do not Concur

X_____

Date

_____

Reason for Non-Concurrence

_____ ☐ FHWA Concurrence

OFFICE OF CHIEF COUNSEL ☐ Concur ☐ Do not Concur

X_____

Date

_____

Reason for Non-Concurrence

_____

pennsylvania
DEPARTMENT OF TRANSPORTATION

DESIGN-BUILD DESIGN ACTIVITIES
FIRM IDENTIFICATION AND QUALIFICATIONS

Fill in the following information as applicable. If not applicable insert "n/a". Attach additional pages as necessary.

Contract Number _____ Project Description _____

District _____ County _____ SR _____ Section _____

Contractor _____

Lead Design Engineer _____ Design Activity(ies) _____ Lead Design Project Manger (Attach resume) _____	For Department Use Only ☐ District Approval ☐ District Disallowance (Attach Justification)
Quality Control Reviewer _____ Quality Control (QC) Manager (Attach resume) _____ Alternate QC Manager (Attach resume) _____	For Department Use Only ☐ District Approval ☐ District Disallowance (Attach Justification)
(If applicable) Quality Assurance Reviewer _____ Quality Assurance (QA) Manager (Attach resume) _____ Alternate QA Manager (Attach resume) _____	For Department Use Only ☐ District Approval ☐ District Disallowance (Attach Justification)
Secondary Design Services Professional firm _____ Design Activity(ies) _____ Secondary Design Services Professional Manger (Attach resume) _____	For Department Use Only ☐ District Approval ☐ District Disallowance (Attach Justification)
Secondary Design Services Professional firm _____ Design Activity(ies) _____ Secondary Design Services Professional Manger (Attach resume) _____	For Department Use Only ☐ District Approval ☐ District Disallowance (Attach Justification)
Secondary Design Services Professional firm _____ Design Activity(ies) _____ Secondary Design Services Professional Manger (Attach resume) _____	For Department Use Only ☐ District Approval ☐ District Disallowance (Attach Justification)

Have you faxed (a) a letter disclosing potential conflict as defined in the State Adverse Interest Act; (b) a letter disclosing potential organization conflicts of interests; or (c) a completed "Request for Consideration of Engineering Involvement" form? Yes ☐ No ☐

I certify that all information included on this form is correct to the best of my knowledge. _____ Contractor Authorized Representative Signature Date _____ Contractor Authorized Representative Printed Name Fax this form to the District Project Manager indicated in the Special Provision entitled, "Special Bidding – Design-build" within 3 calendar days after the Award of the Contract.	For Department Use Only _____ PennDOT Project Manager Signature _____ Date Notify Contractor within 8 calendar days indicating Approval or Disallowance.

REQUIRED CONTRACT PROVISIONS
FEDERAL-AID CONSTRUCTION CONTRACTS

I. GENERAL

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

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

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

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

2. Subject to the applicability criteria noted in the following sections, these contract provisions shall apply to all work performed on the contract by the contractor's own organization and with the assistance of workers under the contractor's immediate superintendence and to all work performed on the contract by piecework, station work, or by subcontract.

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

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

II. NONDISCRIMINATION

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

6. Training and Promotion:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

b. The contractor or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT-assisted contracts. Failure by the contractor to carry out these requirements is a material breach of this contract,

which may result in the termination of this contract or such other remedy as the contracting agency deems appropriate.

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

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

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

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

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

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

III. NONSEGREGATED FACILITIES

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

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

IV. DAVIS-BACON AND RELATED ACT PROVISIONS

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

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

1. Minimum wages

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

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph 1.d. of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, That the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph 1.b. of this section) and the Davis-Bacon poster (WH–1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

b. (1) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer

shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

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

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

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

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

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

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

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

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

contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

2. Withholding

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

3. Payrolls and basic records

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

b. (1) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the contracting agency. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g. , the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH–347 is available for this purpose from the Wage and Hour Division Web site at

http://www.dol.gov/esa/whd/forms/wh347instr.htm or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the contracting agency for transmission to the State DOT, the FHWA or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the contracting agency..

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

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

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

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

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

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

c. The contractor or subcontractor shall make the records required under paragraph 3.a. of this section available for inspection, copying, or transcription by authorized representatives of the contracting agency, the State DOT, the FHWA, or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the FHWA may, after written notice to the contractor, the contracting agency or the State DOT, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

4. Apprentices and trainees

a. Apprentices (programs of the USDOL).

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

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

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

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

b. Trainees (programs of the USDOL).

Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration.

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

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

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

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

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

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

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

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

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

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

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

10. Certification of eligibility.

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

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

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

V. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

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

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

2. Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (1.) of this section, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages.

Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1.) of this section, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (1.) of this section.

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

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

VI. SUBLETTING OR ASSIGNING THE CONTRACT

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

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

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

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

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

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

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

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

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

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

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

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

VII. SAFETY: ACCIDENT PREVENTION

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

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

to protect the life and health of employees on the job and the safety of the public and to protect property in connection with the performance of the work covered by the contract.

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

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

VIII. FALSE STATEMENTS CONCERNING HIGHWAY PROJECTS

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

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

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

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

Whoever knowingly makes any false statement, false representation, false report or false claim with respect to the character, quality, quantity, or cost of any work performed or to be performed,

or materials furnished or to be furnished, in connection with the construction of any highway or related project approved by the Secretary of Transportation; or

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

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

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

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

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

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

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

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

1**. Instructions for Certification – First Tier Participants:**

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

b. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective first tier participant shall submit an explanation of why it cannot provide the certification set out below. The certification

or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective first tier participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

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

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

e. The terms "covered transaction," "debarred," "suspended," "ineligible," "participant," "person," "principal," and "voluntarily excluded," as used in this clause, are defined in 2 CFR Parts 180 and 1200. “First Tier Covered Transactions” refers to any covered transaction between a grantee or subgrantee of Federal funds and a participant (such as the prime or general contract). “Lower Tier Covered Transactions” refers to any covered transaction under a First Tier Covered Transaction (such as subcontracts). “First Tier Participant” refers to the participant who has entered into a covered transaction with a grantee or subgrantee of Federal funds (such as the prime or general contractor). “Lower Tier Participant” refers any participant who has entered into a covered transaction with a First Tier Participant or other Lower Tier Participants (such as subcontractors and suppliers).

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

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

h. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each

participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

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

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

* * * * *

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

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

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

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

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

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

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

2. **Instructions for Certification - Lower Tier Participants:**

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

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

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

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

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

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

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

g. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant is responsible for ensuring that its principals are not suspended, debarred, or otherwise ineligible to participate in covered transactions. To verify the eligibility of its principals, as well as the eligibility of any lower tier prospective participants, each

participant may, but is not required to, check the Excluded Parties List System website (https://www.epls.gov/), which is compiled by the General Services Administration.

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

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

* * * * *

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

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

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

* * * * *

XI. CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Template for lump sum items requiring Schedules of Values.

Project #: _____ County: _____

Date: _____ SR/Section: _____

Item No.		Item Description	% of Item
9XXX-YYYY	**Design Roadway**		-
	a.	Complete Geotechnical Investigation	0.0%
	b.	Pre-Final Plan Submission	0.0%
	c.	Signing and Pavement Marking Plan	0.0%
	d.	Final Roadway Drawings Approval	0.0%
	e.	As-Builts	0.0%
	Item Total (must equal 100%)		0.0%
9XXX-YYYY	**Design Traffic Control Plan**		-
	a.	Incident/Transportation Management Plan Approval	0.0%
	b.	Preliminary Plan Approval	0.0%
	c.	Final Plan Approval	0.0%
	Item Total (must equal 100%)		0.0%
8210-____	**Design of S-xxxxx (As-Designed Foundation)**		-
	a.	Final TS&L Approval	0.0%
	b.	Final Plan Approval - Substructure	0.0%
	c.	Final Plan Approval - Superstructure	0.0%
	d.	Final Plan - for Signature	0.0%
	e.	As-Builts Drawings	0.0%
	Item Total (must equal 100%)		0.0%
8210-____	**Design of S-xxxxx (No As-Designed Foundation)**		-
	a.	Final TS&L Approval	0.0%
	b.	Foundation Approval	0.0%
	c.	Final Plan Approval - Substructure	0.0%
	d	Final Plan Approval - Superstructure	0.0%
	e.	Final Plan - for Signature	0.0%
	f.	As-Builts Drawings	0.0%
	Item Total (must equal 100%)		0.0%
9XXX-YYYY	**Right-of-Way Design and Acquisition Services**		-
	a.	Final Right-of-Way Plan Approval	0.0%
	b.	All Appraisals Approved	0.0%
	c.	Final Right-of-Way Clearance	0.0%
	d.	Right-of-Way Plan Revisions	0.0%
	Item Total (must equal 100%)		0.0%
9XXX-YYYY	**Permits**		-
	a.	NPDES Permit Application Initial Submission	0.0%
	b.	NPDES Permit Issuance	0.0%
	c.	Waterway Permit Application Initial Submission	0.0%
	d.	Waterway Permit Issuance	0.0%
	Item Total (must equal 100%)		0.0%

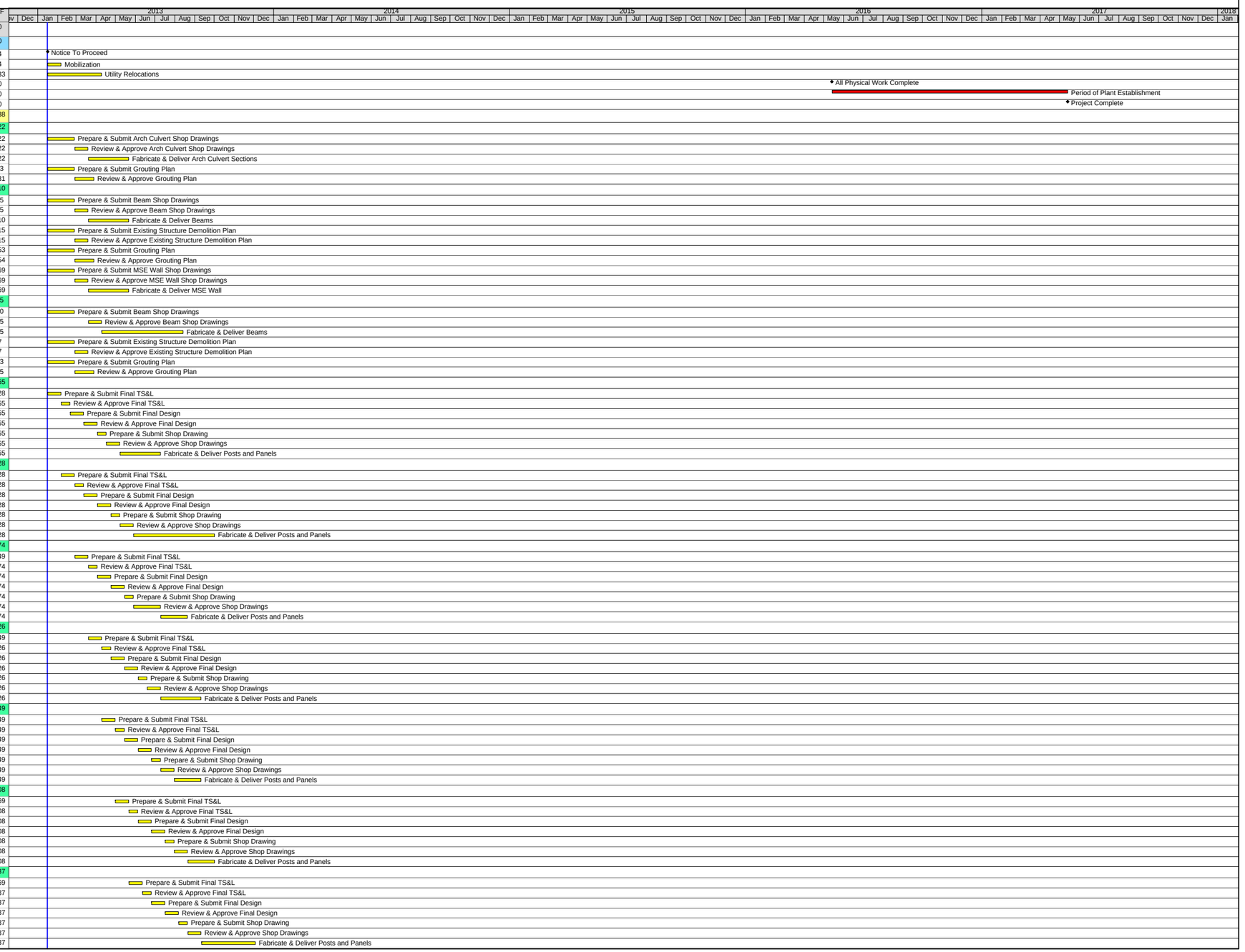
Item No.		Item Description	% of Item
9XXX-YYYY	**Construct Roadway**		-
	a.	Excavation/Embankment	0.0%
	b.	Drainage	0.0%
	c.	Subgrade/Subbase	0.0%
	d.	Concrete Roadway	0.0%
	e.	Asphalt Roadway	0.0%
	f.	Guiderail & Concrete Barrier	0.0%
	g.	Signing & Pavement Marking	0.0%
	h.	Miscellaneous (define)	0.0%
	Item Total (must equal 100%)		0.0%
8___-____	**Construction of Bridge S-xxxxx**		-
	a.	Excavation/Backfill	
	b.	Substructure	0.0%
	c.	Superstructure	0.0%
	d.	Approach Slabs	0.0%
	e.	Miscellaneous (define)	0.0%
	Item total (must equal 100%)		0.0%
8___-____	**Construction of Culvert S-xxxxx**		-
	a.	Excavation/Backfill	0.0%
	b.	Box Placement	0.0%
	c	Wingwall/Apron	0.0%
	d.	Miscellaneous (define)	0.0%
	Item Total (must equal 100%)		0.0%

Project Start Date: 16-Jan-13
Project End Date: 13-May-17
Data Date: 16-Jan-13

Pennsylvania Department of Transportation
Engineering District 6-0

SR 0202, Section 330 - Preliminary Construction Schedule
FOR INFORMATION ONLY

Activity ID	Activity Description	Dur	ES	EF	TF
S.R. 202, Section 330 - Preliminary Construction Schedule (9-13-12 ...		11...	16-Jan-13	13-May-17	0
001 -- General		11...	16-Jan-13	13-May-17	0
0010	Notice To Proceed	0	16-Jan-13		4
0100	Mobilization	15	16-Jan-13	05-Feb-13	4
0150	Utility Relocations	60	16-Jan-13	09-Apr-13	133
9000	All Physical Work Complete	0		13-May-16	0
9500	Period of Plant Establishment	365	14-May-16	13-May-17	0
9999	Project Complete	0		13-May-17	0
Submittal/Approval/Fabrication		305	16-Jan-13	18-Mar-14	388
Chester Valley Trail Culvert [S24744]		90	16-Jan-13	21-May-13	122
0200	Prepare & Submit Arch Culvert Shop Drawings	30	16-Jan-13	26-Feb-13	122
0205	Review & Approve Arch Culvert Shop Drawings	15	27-Feb-13	19-Mar-13	122
0210	Fabricate & Deliver Arch Culvert Sections	45	20-Mar-13	21-May-13	122
0215	Prepare & Submit Grouting Plan	30	16-Jan-13	26-Feb-13	93
0220	Review & Approve Grouting Plan	30	27-Feb-13	28-Mar-13	131
Planebrook Rd Bridge [S-24678]		90	16-Jan-13	21-May-13	310
0300	Prepare & Submit Beam Shop Drawings	30	16-Jan-13	26-Feb-13	35
0305	Review & Approve Beam Shop Drawings	15	27-Feb-13	19-Mar-13	35
0310	Fabricate & Deliver Beams	45	20-Mar-13	21-May-13	310
0315	Prepare & Submit Existing Structure Demolition Plan	30	16-Jan-13	26-Feb-13	215
0320	Review & Approve Existing Structure Demolition Plan	15	27-Feb-13	19-Mar-13	215
0325	Prepare & Submit Grouting Plan	30	16-Jan-13	26-Feb-13	253
0330	Review & Approve Grouting Plan	30	27-Feb-13	28-Mar-13	354
0335	Prepare & Submit MSE Wall Shop Drawings	30	16-Jan-13	26-Feb-13	269
0340	Review & Approve MSE Wall Shop Drawings	15	27-Feb-13	19-Mar-13	269
0345	Fabricate & Deliver MSE Wall	45	20-Mar-13	21-May-13	269
S.R. 401 Bridge [S-26008]		150	16-Jan-13	13-Aug-13	35
0400	Prepare & Submit Beam Shop Drawings	30	16-Jan-13	26-Feb-13	50
0405	Review & Approve Beam Shop Drawings	15	20-Mar-13	09-Apr-13	35
0410	Fabricate & Deliver Beams	90	10-Apr-13	13-Aug-13	35
0415	Prepare & Submit Existing Structure Demolition Plan	30	16-Jan-13	26-Feb-13	7
0420	Review & Approve Existing Structure Demolition Plan	15	27-Feb-13	19-Mar-13	7
0425	Prepare & Submit Grouting Plan	30	16-Jan-13	26-Feb-13	53
0430	Review & Approve Grouting Plan	30	27-Feb-13	28-Mar-13	75
Noise Wall NW-5 [S31036]		125	16-Jan-13	09-Jul-13	255
05051	Prepare & Submit Final TS&L	15	16-Jan-13	05-Feb-13	128
05052	Review & Approve Final TS&L	10	06-Feb-13	19-Feb-13	255
05053	Prepare & Submit Final Design	15	20-Feb-13	12-Mar-13	255
05054	Review & Approve Final Design	15	13-Mar-13	02-Apr-13	255
05055	Prepare & Submit Shop Drawing	10	03-Apr-13	16-Apr-13	255
05056	Review & Approve Shop Drawings	15	17-Apr-13	07-May-13	255
05057	Fabricate & Deliver Posts and Panels	45	08-May-13	09-Jul-13	255
Noise Wall NW-6a [S-25922]		170	06-Feb-13	01-Oct-13	128
05061	Prepare & Submit Final TS&L	15	06-Feb-13	26-Feb-13	128
05062	Review & Approve Final TS&L	10	27-Feb-13	12-Mar-13	128
05063	Prepare & Submit Final Design	15	13-Mar-13	02-Apr-13	128
05064	Review & Approve Final Design	15	03-Apr-13	23-Apr-13	128
05065	Prepare & Submit Shop Drawing	10	24-Apr-13	07-May-13	128
05066	Review & Approve Shop Drawings	15	08-May-13	28-May-13	128
05067	Fabricate & Deliver Posts and Panels	90	29-May-13	01-Oct-13	128
Noise Wall NW-7 [S-31039]		125	27-Feb-13	20-Aug-13	174
05071	Prepare & Submit Final TS&L	15	27-Feb-13	19-Mar-13	149
05072	Review & Approve Final TS&L	10	20-Mar-13	02-Apr-13	174
05073	Prepare & Submit Final Design	15	03-Apr-13	23-Apr-13	174
05074	Review & Approve Final Design	15	24-Apr-13	14-May-13	174
05075	Prepare & Submit Shop Drawing	10	15-May-13	28-May-13	174
05076	Review & Approve Shop Drawings	30	29-May-13	09-Jul-13	174
05077	Fabricate & Deliver Posts and Panels	30	10-Jul-13	20-Aug-13	174
Noise Wall NW-8 [S-31601]		125	20-Mar-13	10-Sep-13	226
05081	Prepare & Submit Final TS&L	15	20-Mar-13	09-Apr-13	149
05082	Review & Approve Final TS&L	10	10-Apr-13	23-Apr-13	226
05083	Prepare & Submit Final Design	15	24-Apr-13	14-May-13	226
05084	Review & Approve Final Design	15	15-May-13	04-Jun-13	226
05085	Prepare & Submit Shop Drawing	10	05-Jun-13	18-Jun-13	226
05086	Review & Approve Shop Drawings	15	19-Jun-13	09-Jul-13	226
05087	Fabricate & Deliver Posts and Panels	45	10-Jul-13	10-Sep-13	226
Noise Wall NW-9a [S-31037]		110	10-Apr-13	10-Sep-13	149
05091	Prepare & Submit Final TS&L	15	10-Apr-13	30-Apr-13	149
05092	Review & Approve Final TS&L	10	01-May-13	14-May-13	149
05093	Prepare & Submit Final Design	15	15-May-13	04-Jun-13	149
05094	Review & Approve Final Design	15	05-Jun-13	25-Jun-13	149
05095	Prepare & Submit Shop Drawing	10	26-Jun-13	09-Jul-13	149
05096	Review & Approve Shop Drawings	15	10-Jul-13	30-Jul-13	149
05097	Fabricate & Deliver Posts and Panels	30	31-Jul-13	10-Sep-13	149
Noise Wall NW-9b [S31040]		110	01-May-13	01-Oct-13	508
05121	Prepare & Submit Final TS&L	15	01-May-13	21-May-13	269
05122	Review & Approve Final TS&L	10	22-May-13	04-Jun-13	508
05123	Prepare & Submit Final Design	15	05-Jun-13	25-Jun-13	508
05124	Review & Approve Final Design	15	26-Jun-13	16-Jul-13	508
05125	Prepare & Submit Shop Drawing	10	17-Jul-13	30-Jul-13	508
05126	Review & Approve Shop Drawings	15	31-Jul-13	20-Aug-13	508
05127	Fabricate & Deliver Posts and Panels	30	21-Aug-13	01-Oct-13	508
Noise Wall NW-1 [S-25698]		140	22-May-13	03-Dec-13	437
05011	Prepare & Submit Final TS&L	15	22-May-13	11-Jun-13	269
05012	Review & Approve Final TS&L	10	12-Jun-13	25-Jun-13	437
05013	Prepare & Submit Final Design	15	26-Jun-13	16-Jul-13	437
05014	Review & Approve Final Design	15	17-Jul-13	06-Aug-13	437
05015	Prepare & Submit Shop Drawing	10	07-Aug-13	20-Aug-13	437
05016	Review & Approve Shop Drawings	15	21-Aug-13	10-Sep-13	437
05017	Fabricate & Deliver Posts and Panels	60	11-Sep-13	03-Dec-13	437

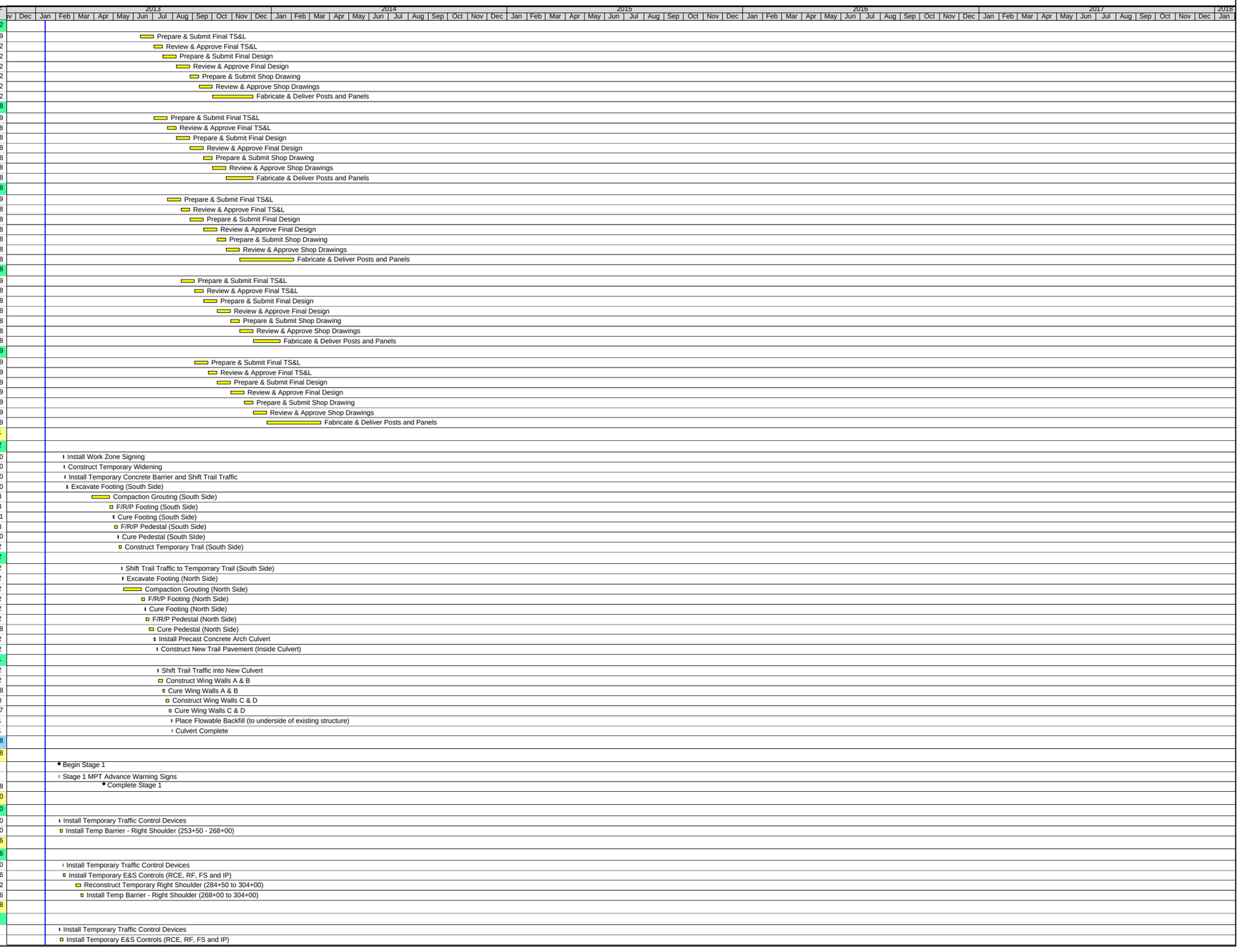


Project Start Date: 16-Jan-13
Project End Date: 13-May-17
Data Date: 16-Jan-13

Pennsylvania Department of Transportation
Engineering District 6-0

SR 0202, Section 330 - Preliminary Construction Schedule
FOR INFORMATION ONLY

Activity ID	Activity Description	Dur	ES	EF	TF
	Noise Wall NW-2 [S-25699]	125	12-Jun-13	03-Dec-13	462
05021	Prepare & Submit Final TS&L	15	12-Jun-13	02-Jul-13	269
05022	Review & Approve Final TS&L	10	03-Jul-13	16-Jul-13	462
05023	Prepare & Submit Final Design	15	17-Jul-13	06-Aug-13	462
05024	Review & Approve Final Design	15	07-Aug-13	27-Aug-13	462
05025	Prepare & Submit Shop Drawing	10	28-Aug-13	10-Sep-13	462
05026	Review & Approve Shop Drawings	15	11-Sep-13	01-Oct-13	462
05027	Fabricate & Deliver Posts and Panels	45	02-Oct-13	03-Dec-13	462
	Noise Wall NW-3 [S-30979]	110	03-Jul-13	03-Dec-13	418
05031	Prepare & Submit Final TS&L	15	03-Jul-13	23-Jul-13	269
05032	Review & Approve Final TS&L	10	24-Jul-13	06-Aug-13	418
05033	Prepare & Submit Final Design	15	07-Aug-13	27-Aug-13	418
05034	Review & Approve Final Design	15	28-Aug-13	17-Sep-13	418
05035	Prepare & Submit Shop Drawing	10	18-Sep-13	01-Oct-13	418
05036	Review & Approve Shop Drawings	15	02-Oct-13	22-Oct-13	418
05037	Fabricate & Deliver Posts and Panels	30	23-Oct-13	03-Dec-13	418
	Noise Wall NW-4 [S-31942]	140	24-Jul-13	04-Feb-14	378
05041	Prepare & Submit Final TS&L	15	24-Jul-13	13-Aug-13	269
05042	Review & Approve Final TS&L	10	14-Aug-13	27-Aug-13	378
05043	Prepare & Submit Final Design	15	28-Aug-13	17-Sep-13	378
05044	Review & Approve Final Design	15	18-Sep-13	08-Oct-13	378
05045	Prepare & Submit Shop Drawing	10	09-Oct-13	22-Oct-13	378
05046	Review & Approve Shop Drawings	15	23-Oct-13	12-Nov-13	378
05047	Fabricate & Deliver Posts and Panels	60	13-Nov-13	04-Feb-14	378
	Noise Wall NW10 [S-25738]	110	14-Aug-13	14-Jan-14	408
05101	Prepare & Submit Final TS&L	15	14-Aug-13	03-Sep-13	269
05102	Review & Approve Final TS&L	10	04-Sep-13	17-Sep-13	408
05103	Prepare & Submit Final Design	15	18-Sep-13	08-Oct-13	408
05104	Review & Approve Final Design	15	09-Oct-13	29-Oct-13	408
05105	Prepare & Submit Shop Drawing	10	30-Oct-13	12-Nov-13	408
05106	Review & Approve Shop Drawings	15	13-Nov-13	03-Dec-13	408
05107	Fabricate & Deliver Posts and Panels	30	04-Dec-13	14-Jan-14	408
	Noise Wall NW11 [S-26764]	140	04-Sep-13	18-Mar-14	269
05111	Prepare & Submit Final TS&L	15	04-Sep-13	24-Sep-13	269
05112	Review & Approve Final TS&L	10	25-Sep-13	08-Oct-13	269
05113	Prepare & Submit Final Design	15	09-Oct-13	29-Oct-13	269
05114	Review & Approve Final Design	15	30-Oct-13	19-Nov-13	269
05115	Prepare & Submit Shop Drawing	10	20-Nov-13	03-Dec-13	269
05116	Review & Approve Shop Drawings	15	04-Dec-13	24-Dec-13	269
05117	Fabricate & Deliver Posts and Panels	60	25-Dec-13	18-Mar-14	269
	006 -- Chester Valley Trail Culvert Construction	121	13-Feb-13	31-Jul-13	91
	Phase 1	64	13-Feb-13	13-May-13	92
6100	Install Work Zone Signing	1	13-Feb-13	13-Feb-13	120
6105	Construct Temporary Widening	1	14-Feb-13	14-Feb-13	120
6110	Install Temporary Concrete Barrier and Shift Trail Traffic	1	15-Feb-13	15-Feb-13	120
6111	Excavate Footing (South Side)	2	18-Feb-13	19-Feb-13	120
6112	Compaction Grouting (South Side)	20	29-Mar-13	25-Apr-13	93
6115	F/R/P Footing (South Side)	3	26-Apr-13	30-Apr-13	93
6120	Cure Footing (South Side)	2	01-May-13	02-May-13	131
6125	F/R/P Pedestal (South Side)	3	03-May-13	07-May-13	93
6130	Cure Pedestal (South Side)	2	08-May-13	09-May-13	130
6135	Construct Temporary Trail (South Side)	2	10-May-13	13-May-13	92
	Phase 2	40	14-May-13	08-Jul-13	92
6200	Shift Trail Traffic to Temporrary Trail (South Side)	1	14-May-13	14-May-13	92
6201	Excavate Footing (North Side)	2	15-May-13	16-May-13	92
6202	Compaction Grouting (North Side)	20	17-May-13	13-Jun-13	92
6205	F/R/P Footing (North Side)	3	14-Jun-13	18-Jun-13	92
6210	Cure Footing (North Side)	2	19-Jun-13	20-Jun-13	92
6215	F/R/P Pedestal (North Side)	3	21-Jun-13	25-Jun-13	92
6220	Cure Pedestal (North Side)	7	26-Jun-13	02-Jul-13	128
6225	Install Precast Concrete Arch Culvert	3	03-Jul-13	05-Jul-13	92
6230	Construct New Trail Pavement (Inside Culvert)	1	08-Jul-13	08-Jul-13	92
	Phase 3	17	09-Jul-13	31-Jul-13	91
6300	Shift Trail Traffic into New Culvert	1	09-Jul-13	09-Jul-13	92
6305	Construct Wing Walls A & B	5	10-Jul-13	16-Jul-13	92
6310	Cure Wing Walls A & B	3	17-Jul-13	19-Jul-13	128
6315	Construct Wing Walls C & D	5	22-Jul-13	26-Jul-13	90
6320	Cure Wing Walls C & D	3	27-Jul-13	29-Jul-13	127
6325	Place Flowable Backfill (to underside of existing structure)	1	30-Jul-13	30-Jul-13	91
6399	Culvert Complete	1	31-Jul-13	31-Jul-13	91
	010 -- Stage 1 - Northbound Shoulder Reconstruction	50	06-Feb-13	16-Apr-13	128
	General	50	06-Feb-13	16-Apr-13	128
1000	Begin Stage 1	0	06-Feb-13		4
1005	Stage 1 MPT Advance Warning Signs	1	06-Feb-13	06-Feb-13	4
1999	Complete Stage 1	0		16-Apr-13	128
	Station 229+00 to 268+00	3	07-Feb-13	11-Feb-13	120
	Mainline	3	07-Feb-13	11-Feb-13	120
1100	Install Temporary Traffic Control Devices	1	07-Feb-13	07-Feb-13	120
1115	Install Temp Barrier - Right Shoulder (253+50 - 268+00)	2	08-Feb-13	11-Feb-13	120
	Station 268+00 to 304+00	24	12-Feb-13	15-Mar-13	136
	Mainline	24	12-Feb-13	15-Mar-13	136
1200	Install Temporary Traffic Control Devices	1	12-Feb-13	12-Feb-13	120
1205	Install Temporary E&S Controls (RCE, RF, FS and IP)	3	13-Feb-13	15-Feb-13	146
1210	Reconstruct Temporary Right Shoulder (284+50 to 304+00)	6	04-Mar-13	11-Mar-13	132
1215	Install Temp Barrier - Right Shoulder (268+00 to 304+00)	4	12-Mar-13	15-Mar-13	136
	Station 304+00 to 339+00	49	07-Feb-13	16-Apr-13	128
	Mainline	31	07-Feb-13	21-Mar-13	1
1300	Install Temporary Traffic Control Devices	1	07-Feb-13	07-Feb-13	4
1305	Install Temporary E&S Controls (RCE, RF, FS and IP)	3	08-Feb-13	12-Feb-13	4



Project Start Date: 16-Jan-13
Project End Date: 13-May-17
Data Date: 16-Jan-13

Pennsylvania Department of Transportation
Engineering District 6-0

SR 0202, Section 330 - Preliminary Construction Schedule
FOR INFORMATION ONLY

Activity ID	Activity Description	Dur	ES	EF	TF
1310	Construct Temporary Swale TS-7 & Plunge Pool P-7	5	13-Feb-13	19-Feb-13	4
1315	Construct Drainage and Cross Pipe at IN-126	5	20-Feb-13	26-Feb-13	4
1320	Reconstruct Temporary Right Shoulder (304+00 to 339+00)	10	04-Mar-13	15-Mar-13	1
1325	Install Temp Barrier - Right Shoulder (304+00 to 339+00)	4	18-Mar-13	21-Mar-13	1
Ramp N		9	22-Mar-13	03-Apr-13	128
1500	Install Temporary Median Barrier	2	22-Mar-13	25-Mar-13	128
1505	Install Temporary E&S Controls (RCE, RF, FS and IP)	2	26-Mar-13	27-Mar-13	128
1510	Construct Temporary Widening Right Side (18+00 to 28+00)	5	28-Mar-13	03-Apr-13	124
Ramp P		9	04-Apr-13	16-Apr-13	128
1600	Install Temporary Median Barrier	2	04-Apr-13	05-Apr-13	128
1605	Install Temporary E&S Controls (RCE, RF, FS and IP)	2	08-Apr-13	09-Apr-13	128
1610	Construct Temporary Widening Right Side	5	10-Apr-13	16-Apr-13	124
Station 339+00 to 367+00		14	18-Mar-13	04-Apr-13	136
Mainline		14	18-Mar-13	04-Apr-13	136
1400	Install Temporary Traffic Control Devices	1	18-Mar-13	18-Mar-13	136
1405	Install Temporary E&S Controls (RCE, RF, FS and IP)	3	19-Mar-13	21-Mar-13	136
1410	Construct Drainage Cross Pipe at EX-IN-347	2	22-Mar-13	25-Mar-13	136
1415	Reconstruct Temporary Right Shoulder (339+00 to 351+50)	6	26-Mar-13	02-Apr-13	132
1420	Install Temp Barrier - Right Shoulder (339+00 to 351+50)	2	03-Apr-13	04-Apr-13	136
020 -- Stage 2 - Northbound Temporary Median and Cross Over Construction		184	22-Mar-13	04-Dec-13	1
General		184	22-Mar-13	04-Dec-13	1
2000	Stage 2 MPT Advance Warning Signs	1	17-Apr-13	17-Apr-13	128
2001	Install Stage 2 Temporary Barrier and 2 MPT devices to shift NB traffic at S-26008	3	22-Mar-13	26-Mar-13	1
2002	Shift NB Traffic to MPT Stage 2 @ S-26008	1	27-Mar-13	27-Mar-13	1
2005	Install Temporary Glare Screen Barrier Northbound (left side)	3	18-Apr-13	22-Apr-13	128
2010	Install Temporary Median Barrier Southbound (left side)	3	23-Apr-13	25-Apr-13	128
2999	Complete Stage 2	0		04-Dec-13	1
Station 229+00 to 268+00		7	26-Apr-13	06-May-13	149
Mainline		7	26-Apr-13	06-May-13	149
2100	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	26-Apr-13	26-Apr-13	128
2105	Install Median Drainage @ 257+50	1	29-Apr-13	29-Apr-13	143
2110	Class 1 Excavation for Temporary Median Pavement	2	30-Apr-13	01-May-13	143
2115	Place Subbase for Temporary Median Pavement	1	02-May-13	02-May-13	146
2120	Place Base Course for Temporary Median Pavement	1	03-May-13	03-May-13	147
2125	Place Wearing Course for Temporary Medain Pavement	1	06-May-13	06-May-13	149
Station 268+00 to 304+00		19	29-Apr-13	23-May-13	137
Mainline		19	29-Apr-13	23-May-13	137
2200	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	29-Apr-13	29-Apr-13	128
2205	Install Median Drainage @ 272+50 to 304+00	10	30-Apr-13	13-May-13	128
2210	Class 1 Excavation for Temporary Median Pavement	3	14-May-13	16-May-13	135
2215	Place Subbase for Temporary Median Pavement	2	17-May-13	20-May-13	136
2220	Place Base Course for Temporary Median Pavement	2	21-May-13	22-May-13	136
2225	Place Wearing Course for Temporary Medain Pavement	1	23-May-13	23-May-13	137
Station 304+00 to 339+00		180	28-Mar-13	04-Dec-13	1
Mainline		157	30-Apr-13	04-Dec-13	1
2300	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	30-Apr-13	30-Apr-13	137
2305	Install Median Drainage @ 304+00 to 339+00	10	14-May-13	27-May-13	128
2310	Class 1 Excavation for Temporary Median Pavement	3	28-May-13	30-May-13	128
2315	Place Subbase for Temporary Median Pavement	2	31-May-13	03-Jun-13	128
2320	Place Base Course for Temporary Median Pavement	2	04-Jun-13	05-Jun-13	128
2325	Place Wearing Course for Temporary Median Pavement	1	06-Jun-13	06-Jun-13	128
2330	Construct Pavement tie-in to approach slabs	2	03-Dec-13	04-Dec-13	1
S.R. 401 Bridge [S-26088]		178	28-Mar-13	02-Dec-13	3
2900	Sawcut & Remove Inside Portion of Existing Northbound Deck	20	28-Mar-13	24-Apr-13	1
2905	Remove Existing Beams G8, G9 & G10	3	25-Apr-13	29-Apr-13	1
2910	Install Temporary Structural Support for Existing Overhang	5	30-Apr-13	06-May-13	1
2912	Demo Portion of Existing Pier 1 NB	5	07-May-13	13-May-13	1
2914	Install Temporary Support of Excavation @ Near Abument	10	14-May-13	27-May-13	1
2916	Class 3 Excavation @ Near Abutment NB	5	28-May-13	03-Jun-13	1
2918	Demo Portion of Existing Near Abutment NB	5	04-Jun-13	10-Jun-13	1
2920	Compaction Grouting @ Near Abutment NB	25	11-Jun-13	15-Jul-13	1
2925	Construct Portion of New Near Abutment NB	20	16-Jul-13	12-Aug-13	6
2930	Cure Portion of New Near Abutment NB	7	13-Aug-13	19-Aug-13	36
2935	Backfill Portion of New Near Abutment NB	5	20-Aug-13	26-Aug-13	26
2942	Demo Portion of Existing Pier 2 NB	5	14-May-13	20-May-13	21
2944	Install Temporary Support of Excavation @ Far Abutment NB	10	28-May-13	10-Jun-13	16
2946	Class 3 Excavation @ Far Abutment NB	5	11-Jun-13	17-Jun-13	16
2948	Demo Portion of Existing Far Abutment NB	5	18-Jun-13	24-Jun-13	16
2950	Compaction Grouting @ Far Abutment NB	25	16-Jul-13	19-Aug-13	1
2952	Construct Portion of New Far Abutment NB	20	20-Aug-13	16-Sep-13	1
2954	Cure Portion of New Far Abutment NB	7	17-Sep-13	23-Sep-13	1
2955	Backfill Portion of New Near Abutment NB	5	24-Sep-13	30-Sep-13	1
2960	Erect New Girders G7, G8 and G9 NB	3	01-Oct-13	03-Oct-13	1
2965	F/R/P Diaphragms and Portion of Deck NB	20	04-Oct-13	31-Oct-13	1
2970	Cure Portion of Deck NB	7	01-Nov-13	07-Nov-13	3
2975	FRP Inside Parapet NB	10	08-Nov-13	21-Nov-13	5
2980	Cure Inside Parapet NB	7	22-Nov-13	28-Nov-13	7
2985	Construct Portion of Approach Slabs NB	10	08-Nov-13	21-Nov-13	1
2990	Cure Portion of Approach Slabs NB	7	22-Nov-13	02-Dec-13	1
S.R. 401 Conestoga Road (Roadway)		10	26-Apr-13	09-May-13	140
2800	Install Temporary Traffic Control Devices	1	26-Apr-13	26-Apr-13	140
2805	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	29-Apr-13	29-Apr-13	140
2810	Remove Existing Mountable Median Curb	5	30-Apr-13	06-May-13	140
2815	Reconstruct Pavement	3	07-May-13	09-May-13	140
Ramp M		3	10-May-13	14-May-13	140
2600	Install Temporary Traffic Control Devices	1	10-May-13	10-May-13	140
2605	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	13-May-13	13-May-13	140
2610	Excavate and Construct Temporary Ramp Widening Pavement	1	14-May-13	14-May-13	140

Project Start Date: 16-Jan-13
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Activity ID	Activity Description	Dur	ES	EF	TF
	Ramp O	7	15-May-13	23-May-13	140
2700	Install Temporary Traffic Control Devices	1	15-May-13	15-May-13	140
2705	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	16-May-13	16-May-13	140
2710	Excavate and Construct Temporary Ramp Widening Pavement	5	17-May-13	23-May-13	140
	Station 339+00 to 367+00	28	01-May-13	07-Jun-13	129
	Mainline	28	01-May-13	07-Jun-13	129
2400	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	01-May-13	01-May-13	149
2405	Install Median Drainage @ 339+00 to 347+00	3	28-May-13	30-May-13	131
2410	Class 1 Excavation for Temporary Median Pavement	1	31-May-13	31-May-13	131
2415	Place Subbase for Temporary Median Pavement	1	04-Jun-13	04-Jun-13	130
2420	Place Base Course for Temporary Median Pavement	1	06-Jun-13	06-Jun-13	129
2425	Place Wearing Course for Temporary Medain Pavement	1	07-Jun-13	07-Jun-13	129
	030 -- Stage 3 - Southbound Reconstruction	251	05-Dec-13	20-Nov-14	0
	General	251	05-Dec-13	20-Nov-14	0
3000	Begin Stage 3	1	05-Dec-13	05-Dec-13	1
3999	Complete Stage 3	1	20-Nov-14	20-Nov-14	0
	Station 229+00 to 268+00	34	06-Dec-13	22-Jan-14	215
	Mainline	34	06-Dec-13	22-Jan-14	215
3100	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	06-Dec-13	12-Dec-13	18
3105	Construct Temporary Access Road for Culvert C-1 (North Side)	3	13-Dec-13	17-Dec-13	187
3110	Construct Temporary Access Road for Culvert C-2 (South Side)	3	18-Dec-13	20-Dec-13	187
	Culvert C1 Rehabilitation	15	02-Jan-14	22-Jan-14	179
3180	Install Temporary Cofferdam and Bypass Pipe	5	02-Jan-14	08-Jan-14	176
3181	Replace/Repair Deteriorated Concrete & Joint Material	5	09-Jan-14	15-Jan-14	179
3182	Seal Concrete Cracks	3	16-Jan-14	20-Jan-14	179
3184	Place Rip-Rap and Remove Cofferdam	2	21-Jan-14	22-Jan-14	176
	Overhead Sign Structure (S-31865) @ Sta. 251+48	5	13-Dec-13	19-Dec-13	239
3190	Construct Sign Structure Foundation (north side)	5	13-Dec-13	19-Dec-13	239
	Station 268+00 to 304+00	192	13-Dec-13	08-Sep-14	52
	Mainline	190	13-Dec-13	04-Sep-14	20
3200	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	13-Dec-13	19-Dec-13	18
3201	Construct Sediment Basin SB-4, DS-DB-4 and P-4	10	20-Dec-13	02-Jan-14	93
3202	Install Drainage Pipes & Inlets (discharging to SB-4)	15	03-Jan-14	23-Jan-14	93
3211	Construct Temporary Access Road from CVT (North Side)	2	24-Jan-14	27-Jan-14	144
3215	Class 1 Excavation and Embankment	20	24-Jan-14	20-Feb-14	93
3225	Place Subbase	10	10-Apr-14	23-Apr-14	93
3230	Place Asphalt Treated Permeable Base Course	5	24-Apr-14	30-Apr-14	90
3235	Place Plain Cement Concrete Pavement	15	01-May-14	21-May-14	90
3236	Complete New Pavement tie-in to Approach Slabs	5	26-Aug-14	01-Sep-14	20
3237	Install Guiderail	3	02-Sep-14	04-Sep-14	20
	Culvert C2 Rehabilitation	47	28-Jan-14	02-Apr-14	129
3281	Install Temporary Cofferdam	3	28-Jan-14	30-Jan-14	142
3282	Demo Existing Wing Wall A	5	31-Jan-14	06-Feb-14	144
3283	Construct New Wing Wall A	15	03-Mar-14	21-Mar-14	126
3284	Construct New Concrete Apron	5	24-Mar-14	28-Mar-14	129
3285	Place Rip-Rap and Remove Temporary Cofferdam	3	31-Mar-14	02-Apr-14	126
	Noise Wall NW-5 (S-280+64 to 285+40)	12	21-Feb-14	10-Mar-14	115
3286	Drill Foundations & Set Posts	10	21-Feb-14	06-Mar-14	93
3287	Set Panels	2	07-Mar-14	10-Mar-14	115
	Noise Wall NW-6a (286+866 to 304+00)	24	07-Mar-14	09-Apr-14	93
3288	Drill Foundations & Set Posts	20	07-Mar-14	03-Apr-14	93
3289	Set Panels	4	04-Apr-14	09-Apr-14	93
	Cantilever Sign Structure (S-31867) @ Sta. 287+54	11	03-Mar-14	17-Mar-14	143
3290	Construct Sign Structure Foundation	5	03-Mar-14	07-Mar-14	109
3291	Cure Sign Structure Foundation	7	08-Mar-14	14-Mar-14	157
3292	Erect Sign Structure	1	17-Mar-14	17-Mar-14	143
	Planebrook Rd Bridge [S-24678]	187	20-Dec-13	08-Sep-14	52
3240	Remove existing Sound Barrier	1	20-Dec-13	20-Dec-13	18
3241	Sawcut & Remove Existing Southbound Deck	15	23-Dec-13	10-Jan-14	18
3242	Remove Existing Beams G1, G2, G3, G4, G5 & G6	3	13-Jan-14	15-Jan-14	18
3243	Install Temporary Support of Excavation	10	16-Jan-14	29-Jan-14	18
3244	Class 3 Excavation @ Near Abutment SB	5	30-Jan-14	05-Feb-14	18
3245	Demo Existing Near Abutment SB	10	06-Feb-14	19-Feb-14	18
3246	Compaction Grouting @ Near Abutment SB	30	20-Feb-14	02-Apr-14	18
3247	Install Piles @ Near Abutment SB	10	03-Apr-14	16-Apr-14	33
3248	Construct Near MSE Wall Abutment SB	15	17-Apr-14	07-May-14	32
3249	Construct New Near Abutment SB	5	08-May-14	14-May-14	47
3250	Cure New Near Abutment SB	7	15-May-14	21-May-14	69
3254	Class 3 Excavation @ Far Abutment SB	5	06-Feb-14	12-Feb-14	43
3255	Demo Existing Far Abutment SB	10	20-Feb-14	05-Mar-14	38
3256	Compaction Grouting @ Far Abutment SB	30	03-Apr-14	14-May-14	18
3257	Install Piles @ Far Abutment SB	10	15-May-14	28-May-14	18
3258	Construct Far MSE Wall Abutment SB	15	29-May-14	18-Jun-14	18
3259	Construct New Far Abutment SB	7	19-Jun-14	27-Jun-14	18
3260	Cure New Far Abutment SB	5	28-Jun-14	02-Jul-14	27
3261	Erect New Girders SB	3	03-Jul-14	07-Jul-14	19
3262	F/R/P Diaphragms and Deck SB	20	08-Jul-14	04-Aug-14	19
3263	Cure Deck SB	7	05-Aug-14	11-Aug-14	28
3264	F/R/P Parapets SB	5	12-Aug-14	18-Aug-14	51
3265	Cure Parapets SB	7	19-Aug-14	25-Aug-14	72
3266	Construct Structure Mounted Sound Barrier	10	26-Aug-14	08-Sep-14	52
3267	Construct Approach Slabs	5	12-Aug-14	18-Aug-14	19
3268	Cure Approach Slabs	7	19-Aug-14	25-Aug-14	28
	Station 304+00 to 351+50	221	06-Dec-13	13-Oct-14	28
	S.R. 401 Conestoga Road Traffic Signals	221	06-Dec-13	13-Oct-14	28
3001	Install Permanent Traffic Signals and System	150	06-Dec-13	03-Jul-14	27
3002	Test Traffic Signals and System	100	04-Jul-14	11-Oct-14	39
3003	Activate New Traffic Signal System Prior to Stage 4	0		13-Oct-14	28
	S.R. 401 Bridge [S-26088]	212	13-Dec-13	06-Oct-14	32

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Activity ID	Activity Description	Dur	ES	EF	TF
3900	Sawcut & Remove Existing Southbound Deck	20	13-Dec-13	09-Jan-14	1
3901	Remove Existing Beams G1, G2, G3, G4, G5, G6 & G7	3	10-Jan-14	14-Jan-14	1
3902	Install Temporary Support of Excavation	15	29-Jan-14	18-Feb-14	1
3903	Class 3 Excavation @ Near Abutment SB	5	19-Feb-14	25-Feb-14	1
3904	Demo Existing Near Abutment SB	10	26-Feb-14	11-Mar-14	1
3905	Class 3 Excavation @ Far Abutment SB	5	26-Feb-14	04-Mar-14	26
3906	Demo Existing Far Abutment SB	10	12-Mar-14	25-Mar-14	21
3910	Compaction Grouting @ Near Abutment SB	30	12-Mar-14	22-Apr-14	1
3911	Construct New Near Abutment SB	15	23-Apr-14	13-May-14	15
3912	Cure New Near Abutment SB	7	14-May-14	20-May-14	43
3913	Backfill New Near Abutment SB	5	21-May-14	27-May-14	31
3920	Demo Existing Pier 1 SB	5	15-Jan-14	21-Jan-14	1
3930	Demo Existing Pier 2 SB	5	22-Jan-14	28-Jan-14	1
3940	Compaction Grouting @ Far Abutment SB	30	23-Apr-14	03-Jun-14	1
3941	Construct New Far Abutment SB	15	04-Jun-14	24-Jun-14	1
3942	Cure New Far Abutment SB	7	25-Jun-14	01-Jul-14	1
3943	Backfill New Far Abutment SB	5	02-Jul-14	08-Jul-14	1
3950	Erect New Girders G1, G2, G3, G4, G5 and G6	3	09-Jul-14	11-Jul-14	1
3951	F/R/P Diaphragms and Deck SB	30	14-Jul-14	22-Aug-14	1
3952	Cure Deck SB	7	23-Aug-14	29-Aug-14	3
3953	F/R/P Parapets SB	10	02-Sep-14	15-Sep-14	32
3954	Cure Parapets SB	7	16-Sep-14	22-Sep-14	44
3960	Construct Structure Mounted Sound Barrier	10	23-Sep-14	06-Oct-14	32
3970	Construct Approach Slabs	10	02-Sep-14	15-Sep-14	0
3971	Cure Approach Slabs	7	16-Sep-14	22-Sep-14	0
Stage 3A		126	06-Dec-13	30-May-14	89
Mainline 304+00 to 312+00		91	06-Dec-13	11-Apr-14	124
3300	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	06-Dec-13	12-Dec-13	1
3305	Install Drainage Pipes & Inlets	15	13-Dec-13	02-Jan-14	15
3310	Class 1 Excavation and Embankment	20	03-Jan-14	30-Jan-14	37
3315	Place Subbase	10	26-Feb-14	11-Mar-14	41
3320	Place Asphalt Treated Permeable Base Course	5	12-Mar-14	18-Mar-14	121
3325	Place Plain Cement Concrete Pavement	15	19-Mar-14	08-Apr-14	121
3330	Install Guiderail	3	09-Apr-14	11-Apr-14	124
Noise Wall NW-6a (304+00 to 315+06)		18	31-Jan-14	25-Feb-14	41
3390	Drill Foundations & Set Posts	15	31-Jan-14	20-Feb-14	41
3395	Set Panels	3	21-Feb-14	25-Feb-14	41
Ramp M (North Side)		76	03-Jan-14	18-Apr-14	38
3610	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	03-Jan-14	03-Jan-14	15
3611	Construct Drainage Swales, Inlets and Pipes	15	06-Jan-14	24-Jan-14	15
3612	Class 1 Excavation and Embankment	20	31-Jan-14	27-Feb-14	37
3613	Place Subbase	5	18-Mar-14	24-Mar-14	37
3614	Place Asphalt Treated Permeable Base Course	5	25-Mar-14	31-Mar-14	37
3615	Place Plain Cement Concrete Pavement	10	01-Apr-14	14-Apr-14	37
3616	Install Temporary Concrete Median Barrier	3	15-Apr-14	17-Apr-14	38
3617	Shift Traffic to New Ramp Pavement (North Side)	1	18-Apr-14	18-Apr-14	38
Noise Wall NW-7 (315+87 to 318+84)		12	28-Feb-14	17-Mar-14	37
3690	Drill Foundations & Set Posts	10	28-Feb-14	13-Mar-14	37
3695	Set Panels	2	14-Mar-14	17-Mar-14	37
Ramp O (North Side)		82	27-Jan-14	20-May-14	16
3710	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	27-Jan-14	27-Jan-14	15
3711	Construct Drainage Swales, Inlets and Pipes	15	28-Jan-14	17-Feb-14	15
3712	Class 1 Excavation and Embankment	20	18-Feb-14	17-Mar-14	15
3713	Place Subbase	10	03-Apr-14	16-Apr-14	15
3714	Place Asphalt Treated Permeable Base Course	5	17-Apr-14	23-Apr-14	15
3715	Place Plain Cement Concrete Pavement	15	24-Apr-14	14-May-14	15
3716	Install Temporary Concrete Median Barrier	3	15-May-14	19-May-14	16
3717	Shift Traffic to New Ramp Pavement (North Side)	1	20-May-14	20-May-14	16
Noise Wall NW-9-a (328+77 to 332+06)		12	18-Mar-14	02-Apr-14	15
3790	Drill Foundations & Set Posts	10	18-Mar-14	31-Mar-14	15
3795	Set Panels	2	01-Apr-14	02-Apr-14	15
Mainline 333+00 to 351+50		74	18-Feb-14	30-May-14	89
3400	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	18-Feb-14	24-Feb-14	77
3405	Install Drainage Pipes & Inlets	15	25-Feb-14	17-Mar-14	90
3410	Class 1 Excavation and Embankment	20	18-Mar-14	14-Apr-14	90
3415	Place Subbase	10	15-Apr-14	28-Apr-14	90
3420	Place Asphalt Treated Permeable Base Course	5	29-Apr-14	05-May-14	87
3425	Place Plain Cement Concrete Pavement	15	06-May-14	27-May-14	87
3430	Install Guiderail	3	28-May-14	30-May-14	89
Stage 3B		119	21-Apr-14	02-Oct-14	0
Mainline 312+00 to 330+00		97	21-May-14	02-Oct-14	0
3500	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	21-May-14	27-May-14	16
3510	Install Drainage Pipes & Inlets	10	28-May-14	10-Jun-14	16
3511	Class 1 Excavation and Embankment	15	11-Jun-14	01-Jul-14	16
3515	Place Subbase	10	28-Jul-14	08-Aug-14	16
3520	Place Asphalt Treated Permeable Base Course	5	11-Aug-14	15-Aug-14	15
3525	Place Plain Cement Concrete Pavement	15	18-Aug-14	08-Sep-14	15
3530	Install Guiderail	3	30-Sep-14	02-Oct-14	0
3535	Complete New Pavement tie-in to Approach Slabs	5	23-Sep-14	29-Sep-14	0
Noise Wall NW-8 (320+22 to 329+37)		18	02-Jul-14	25-Jul-14	16
3590	Drill Foundations & Set Posts	15	02-Jul-14	22-Jul-14	16
3595	Set Panels	3	23-Jul-14	25-Jul-14	16
Ramp M (South Side)		60	21-Apr-14	11-Jul-14	59
3620	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	21-Apr-14	21-Apr-14	60
3621	Construct Drainage Swales, Inlets and Pipes	15	22-Apr-14	12-May-14	60
3622	Class 1 Excavation and Embankment	20	13-May-14	09-Jun-14	60
3623	Place Subbase	5	10-Jun-14	16-Jun-14	60
3624	Place Asphalt Treated Permeable Base Course	5	17-Jun-14	23-Jun-14	58
3625	Place Plain Cement Concrete Pavement	10	24-Jun-14	08-Jul-14	58
3626	Install Guiderail	3	09-Jul-14	11-Jul-14	59
Ramp O (South Side)		69	21-May-14	25-Aug-14	28
3720	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	21-May-14	21-May-14	28

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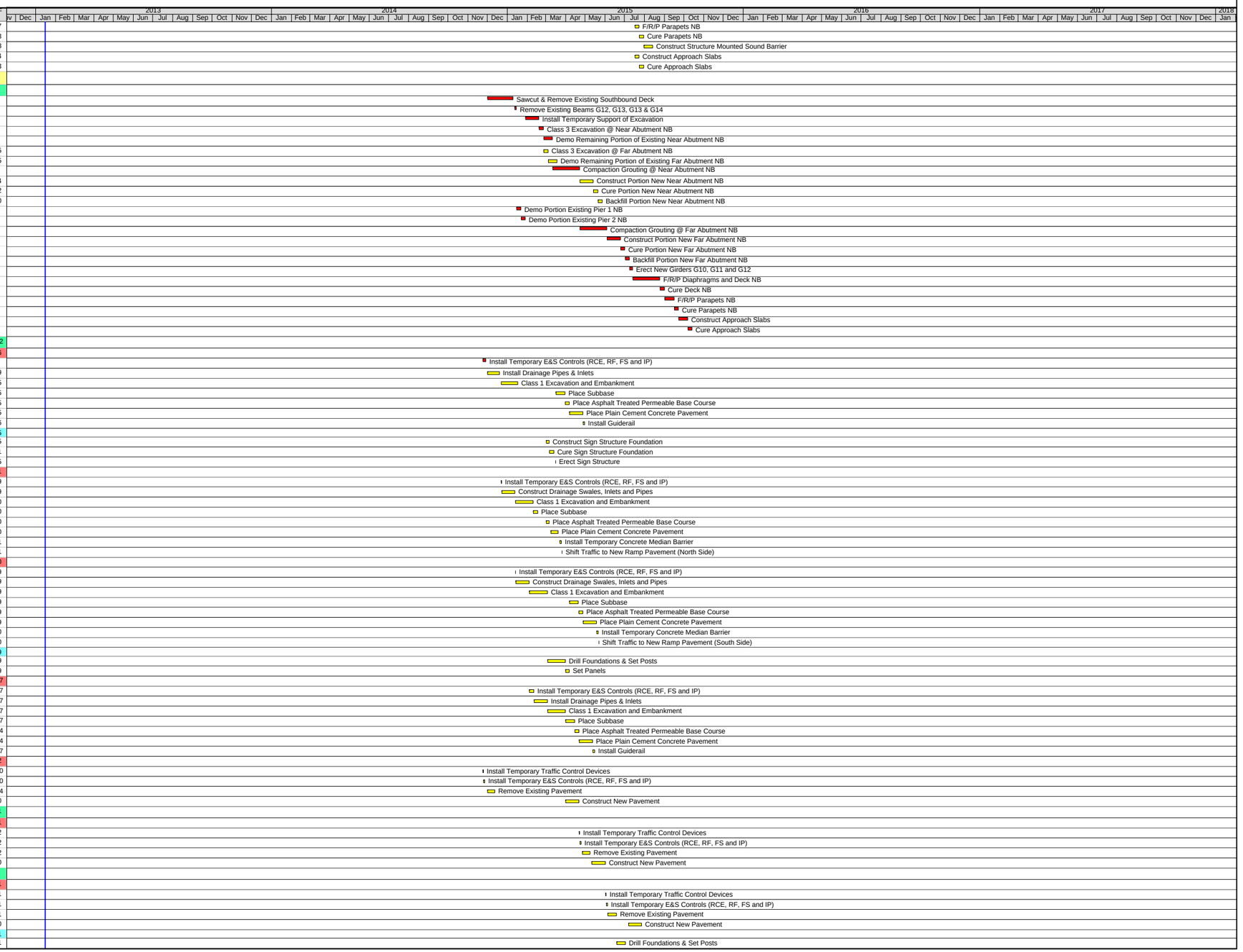
Activity ID	Activity Description	Dur	ES	EF	TF
3721	Construct Drainage Swales, Inlets and Pipes	15	22-May-14	11-Jun-14	28
3722	Class 1 Excavation and Embankment	20	12-Jun-14	09-Jul-14	28
3723	Place Subbase	10	10-Jul-14	23-Jul-14	28
3724	Place Asphalt Treated Permeable Base Course	5	24-Jul-14	30-Jul-14	27
3725	Place Plain Cement Concrete Pavement	15	31-Jul-14	20-Aug-14	27
3726	Install Guiderail	3	21-Aug-14	25-Aug-14	28
Ramp P		57	13-Dec-13	03-Mar-14	187
3850	Install Temporary Concrete Median Barrier	2	13-Dec-13	16-Dec-13	235
3851	Install Temporary E&S Controls (RCE, RF, FS and IP)	2	17-Dec-13	18-Dec-13	235
3852	Construct Temporary Widening Left Side	5	19-Dec-13	03-Mar-14	184
Stage 3C [Mainline 270+00 to 317+00]		34	03-Oct-14	19-Nov-14	0
3800	Install Temporary Glare Screen Barrier SB (for use in Stage 4)	5	03-Oct-14	09-Oct-14	0
3805	Shift SB Traffic to New SB Roadway	2	10-Oct-14	13-Oct-14	0
3810	Construct Temporary Median Paving	20	14-Oct-14	10-Nov-14	0
3815	Install Temporary Median Barrier SB (for use in Stage 4)	5	11-Nov-14	17-Nov-14	0
3820	Shift NB Traffic to New SB Roadway	2	18-Nov-14	19-Nov-14	0
040 -- Stage 4 - Northbound Reconstruction		239	21-Nov-14	21-Oct-15	0
General		239	21-Nov-14	21-Oct-15	0
4000	Begin Stage 4	1	21-Nov-14	21-Nov-14	0
4990	Install Temporary Concrete Barrier for Stage 5 NB	5	14-Oct-15	20-Oct-15	0
4999	Complete Stage 4	1	21-Oct-15	21-Oct-15	0
Station 229+00 to 268+00		118	24-Nov-14	06-May-15	119
Mainline		118	24-Nov-14	06-May-15	119
4100	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	24-Nov-14	28-Nov-14	80
4105	Construct Detention Basin D-1	20	01-Dec-14	26-Dec-14	80
4110	Install Drainage Pipes & Inlets	10	29-Dec-14	09-Jan-15	80
4115	Class 1 Excavation and Embankment	30	12-Jan-15	20-Feb-15	119
4120	Install Single Face Concrete Barrier (w/ fill & cap)	10	23-Apr-15	06-May-15	119
Noise Wall NW-1 (234+98 to 256+17)		30	23-Feb-15	03-Apr-15	129
4150	Drill Foundations & Set Posts	25	23-Feb-15	27-Mar-15	119
4155	Set Panels	5	30-Mar-15	03-Apr-15	129
Noise Wall NW-2 (255+57 to 266+69)		18	30-Mar-15	22-Apr-15	119
4160	Drill Foundations & Set Posts	15	30-Mar-15	17-Apr-15	119
4165	Set Panels	3	20-Apr-15	22-Apr-15	119
Overhead Sign Structure (S-31865) @ Sta. 251+48		13	23-Feb-15	11-Mar-15	159
4190	Construct Sign Structure Foundation (south side)	5	23-Feb-15	27-Feb-15	159
4191	Cure Sign Structure Foundation (south side)	7	28-Feb-15	06-Mar-15	223
4202	Erect New Overhead Sign Structure	3	09-Mar-15	11-Mar-15	159
Station 268+00 to 304+00		189	24-Nov-14	13-Aug-15	48
Mainline		152	12-Jan-15	11-Aug-15	50
4200	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	12-Jan-15	16-Jan-15	80
4201	Construct Temporary Access Road for M-8 & M-9	2	19-Jan-15	20-Jan-15	80
4215	Install Drainage Pipes & Inlets	15	19-Jan-15	06-Feb-15	90
4220	Class 1 Excavation and Embankment	20	23-Feb-15	20-Mar-15	80
4225	Place Subbase	10	01-May-15	14-May-15	80
4230	Place Asphalt Treated Permeable Base Course	5	15-May-15	21-May-15	80
4235	Place Plain Cement Concrete Pavement	15	22-May-15	11-Jun-15	80
4236	Complete New Pavement tie-in to Approach Slabs	5	31-Jul-15	06-Aug-15	45
4237	Install Guiderail	3	07-Aug-15	11-Aug-15	45
Culvert C2 Rehabilitation		44	21-Jan-15	23-Mar-15	137
4281	Install Temporary Sheeting/Cofferdam at Wing Wall C	3	21-Jan-15	23-Jan-15	80
4282	Demo Existing Wing Wall C	5	26-Jan-15	30-Jan-15	80
4283	Construct New Wing Wall C	15	02-Feb-15	20-Feb-15	80
4284	Install Temporary Sandbag Cofferdam and Bypass Pipe	3	23-Feb-15	25-Feb-15	135
4285	Replace/Repair Deteriorated Concrete & Joint Material	1	26-Feb-15	26-Feb-15	137
4286	Seal Concrete Cracks	5	27-Feb-15	05-Mar-15	137
4287	Place Concrete Block Revetment System	10	06-Mar-15	19-Mar-15	137
4288	Remove Cofferdams and Bypass Pipe	2	20-Mar-15	23-Mar-15	134
Noise Wall NW-3 (284+00 to 286+89)		6	23-Mar-15	30-Mar-15	103
4289	Drill Foundations & Set Posts	5	23-Mar-15	27-Mar-15	80
4290	Set Panels	1	30-Mar-15	30-Mar-15	103
Noise Wall NW-4 (287+99 to 303+86)		24	30-Mar-15	30-Apr-15	80
4291	Drill Foundations & Set Posts	20	30-Mar-15	24-Apr-15	80
4292	Set Panels	4	27-Apr-15	30-Apr-15	80
Cantilever Sign Structure (S-31866) @ Sta. 282+00		11	23-Mar-15	06-Apr-15	141
4293	Construct Sign Structure Foundation	5	23-Mar-15	27-Mar-15	138
4294	Cure Sign Structure Foundation	7	28-Mar-15	03-Apr-15	199
4295	Erect Sign Structure	1	06-Apr-15	06-Apr-15	141
Planebrook Rd Bridge [S-24678]		189	24-Nov-14	13-Aug-15	48
4240	Remove existing Sound Barrier	1	24-Nov-14	24-Nov-14	46
4241	Sawcut & Remove Existing Southbound Deck	15	25-Nov-14	15-Dec-14	46
4242	Remove Existing Beams NB	3	16-Dec-14	18-Dec-14	46
4243	Install Temporary Support of Excavation	10	19-Dec-14	01-Jan-15	46
4244	Class 3 Excavation @ Near Abutment NB	5	02-Jan-15	08-Jan-15	46
4245	Demo Existing Near Abutment NB	10	09-Jan-15	22-Jan-15	46
4246	Compaction Grouting @ Near Abutment NB	30	23-Jan-15	05-Mar-15	46
4247	Install Piles @ Near Abutment NB	10	06-Mar-15	19-Mar-15	60
4248	Construct Near MSE Wall Abutment NB	15	20-Mar-15	09-Apr-15	59
4249	Construct New Near Abutment NB	5	10-Apr-15	16-Apr-15	74
4250	Cure New Near Abutment NB	7	17-Apr-15	23-Apr-15	108
4251	Class 3 Excavation @ Far Abutment NB	5	09-Jan-15	15-Jan-15	71
4252	Demo Existing Far Abutment NB	10	23-Jan-15	05-Feb-15	66
4253	Compaction Grouting @ Far Abutment NB	30	06-Mar-15	16-Apr-15	46
4254	Install Piles @ Far Abutment NB	10	17-Apr-15	30-Apr-15	46
4255	Construct Far MSE Wall Abutment NB	15	01-May-15	21-May-15	44
4256	Construct New Far Abutment NB	7	22-May-15	02-Jun-15	44
4257	Cure New Far Abutment NB	5	03-Jun-15	07-Jun-15	63
4258	Erect New Girders NB	3	08-Jun-15	10-Jun-15	45
4259	F/R/P Diaphragms and Deck NB	20	11-Jun-15	09-Jul-15	44
4260	Cure Deck NB	7	10-Jul-15	16-Jul-15	63

Project Start Date: 16-Jan-13
Project End Date: 13-May-17
Data Date: 16-Jan-13

Pennsylvania Department of Transportation
Engineering District 6-0

SR 0202, Section 330 - Preliminary Construction Schedule
FOR INFORMATION ONLY

Activity ID	Activity Description	Dur	ES	EF	TF
4261	F/R/P Parapets NB	5	17-Jul-15	23-Jul-15	47
4262	Cure Parapets NB	7	24-Jul-15	30-Jul-15	68
4263	Construct Structure Mounted Sound Barrier	10	31-Jul-15	13-Aug-15	48
4264	Construct Approach Slabs	5	17-Jul-15	23-Jul-15	44
4265	Cure Approach Slabs	7	24-Jul-15	30-Jul-15	63
Station 304+00 to 351+50		232	24-Nov-14	13-Oct-15	5
S.R. 401 Bridge [S-26088]		227	01-Dec-14	13-Oct-15	0
4900	Sawcut & Remove Existing Southbound Deck	30	01-Dec-14	09-Jan-15	0
4901	Remove Existing Beams G12, G13, G13 & G14	3	12-Jan-15	14-Jan-15	0
4902	Install Temporary Support of Excavation	15	29-Jan-15	18-Feb-15	0
4903	Class 3 Excavation @ Near Abutment NB	5	19-Feb-15	25-Feb-15	0
4904	Demo Remaining Portion of Existing Near Abutment NB	10	26-Feb-15	11-Mar-15	0
4905	Class 3 Excavation @ Far Abutment NB	5	26-Feb-15	04-Mar-15	25
4906	Demo Remaining Portion of Existing Far Abutment NB	10	05-Mar-15	18-Mar-15	25
4910	Compaction Grouting @ Near Abutment NB	30	12-Mar-15	22-Apr-15	0
4911	Construct Portion New Near Abutment NB	15	23-Apr-15	13-May-15	14
4912	Cure Portion New Near Abutment NB	7	14-May-15	20-May-15	42
4913	Backfill Portion New Near Abutment NB	5	21-May-15	27-May-15	30
4920	Demo Portion Existing Pier 1 NB	5	15-Jan-15	21-Jan-15	0
4930	Demo Portion Existing Pier 2 NB	5	22-Jan-15	28-Jan-15	0
4940	Compaction Grouting @ Far Abutment NB	30	23-Apr-15	03-Jun-15	0
4941	Construct Portion New Far Abutment NB	15	04-Jun-15	24-Jun-15	0
4942	Cure Portion New Far Abutment NB	7	25-Jun-15	01-Jul-15	0
4943	Backfill Portion New Far Abutment NB	5	02-Jul-15	08-Jul-15	0
4950	Erect New Girders G10, G11 and G12	3	09-Jul-15	13-Jul-15	0
4951	F/R/P Diaphragms and Deck NB	30	14-Jul-15	24-Aug-15	0
4952	Cure Deck NB	7	25-Aug-15	31-Aug-15	0
4953	F/R/P Parapets NB	10	01-Sep-15	15-Sep-15	0
4954	Cure Parapets NB	7	16-Sep-15	22-Sep-15	0
4970	Construct Approach Slabs	10	23-Sep-15	06-Oct-15	0
4971	Cure Approach Slabs	7	07-Oct-15	13-Oct-15	0
Stage 4A		130	24-Nov-14	22-May-15	102
Mainline 304+00 to 312+00		114	24-Nov-14	30-Apr-15	36
4300	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	24-Nov-14	28-Nov-14	0
4305	Install Drainage Pipes & Inlets	15	01-Dec-14	19-Dec-14	19
4310	Class 1 Excavation and Embankment	20	22-Dec-14	16-Jan-15	65
4315	Place Subbase	10	17-Mar-15	30-Mar-15	35
4320	Place Asphalt Treated Permeable Base Course	5	31-Mar-15	06-Apr-15	35
4325	Place Plain Cement Concrete Pavement	15	07-Apr-15	27-Apr-15	35
4330	Install Guiderail	3	28-Apr-15	30-Apr-15	36
Cantilever Sign Structure (S-31868) @ Sta.308+75		11	02-Mar-15	16-Mar-15	35
4390	Construct Sign Structure Foundation	5	02-Mar-15	06-Mar-15	35
4391	Cure Sign Structure Foundation	7	07-Mar-15	13-Mar-15	51
4392	Erect Sign Structure	1	16-Mar-15	16-Mar-15	35
Ramp N (North Side)		69	22-Dec-14	26-Mar-15	61
4610	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	22-Dec-14	22-Dec-14	19
4611	Construct Drainage Swales, Inlets and Pipes	15	23-Dec-14	12-Jan-15	19
4612	Class 1 Excavation and Embankment	20	13-Jan-15	09-Feb-15	70
4613	Place Subbase	5	10-Feb-15	16-Feb-15	70
4614	Place Asphalt Treated Permeable Base Course	5	02-Mar-15	06-Mar-15	60
4615	Place Plain Cement Concrete Pavement	10	09-Mar-15	20-Mar-15	60
4616	Install Temporary Concrete Median Barrier	3	23-Mar-15	25-Mar-15	61
4617	Shift Traffic to New Ramp Pavement (North Side)	1	26-Mar-15	26-Mar-15	61
Ramp P (South Side)		94	13-Jan-15	22-May-15	20
4710	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	13-Jan-15	13-Jan-15	19
4711	Construct Drainage Swales, Inlets and Pipes	15	14-Jan-15	03-Feb-15	19
4712	Class 1 Excavation and Embankment	20	04-Feb-15	03-Mar-15	19
4713	Place Subbase	10	07-Apr-15	20-Apr-15	19
4714	Place Asphalt Treated Permeable Base Course	5	21-Apr-15	27-Apr-15	19
4715	Place Plain Cement Concrete Pavement	15	28-Apr-15	18-May-15	19
4716	Install Temporary Concrete Median Barrier	3	19-May-15	21-May-15	20
4717	Shift Traffic to New Ramp Pavement (South Side)	1	22-May-15	22-May-15	20
Noise Wall NW-11 (329+16 to 346+09)		24	04-Mar-15	06-Apr-15	19
4790	Drill Foundations & Set Posts	20	04-Mar-15	31-Mar-15	19
4795	Set Panels	4	01-Apr-15	06-Apr-15	19
Mainline 337+00 to 351+50		73	04-Feb-15	15-May-15	107
4400	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	04-Feb-15	10-Feb-15	107
4405	Install Drainage Pipes & Inlets	15	11-Feb-15	03-Mar-15	107
4410	Class 1 Excavation and Embankment	20	04-Mar-15	31-Mar-15	107
4415	Place Subbase	10	01-Apr-15	14-Apr-15	107
4420	Place Asphalt Treated Permeable Base Course	5	15-Apr-15	21-Apr-15	104
4425	Place Plain Cement Concrete Pavement	15	22-Apr-15	12-May-15	104
4430	Install Guiderail	3	13-May-15	15-May-15	107
S.R. 401 Conestoga Road (West Side)		107	24-Nov-14	21-Apr-15	62
4810	Install Temporary Traffic Control Devices	1	24-Nov-14	24-Nov-14	140
4811	Install Temporary E&S Controls (RCE, RF, FS and IP)	2	25-Nov-14	26-Nov-14	140
4812	Remove Existing Pavement	10	01-Dec-14	12-Dec-14	134
4813	Construct New Pavement	15	01-Apr-15	21-Apr-15	60
Stage 4B		29	22-Apr-15	01-Jun-15	61
S.R. 401 Coneatoga Road (Center)		29	22-Apr-15	01-Jun-15	61
4820	Install Temporary Traffic Control Devices	1	22-Apr-15	22-Apr-15	62
4821	Install Temporary E&S Controls (RCE, RF, FS and IP)	2	23-Apr-15	24-Apr-15	62
4822	Remove Existing Pavement	10	27-Apr-15	08-May-15	62
4823	Construct New Pavement	15	11-May-15	01-Jun-15	60
Stage 4C		142	27-Mar-15	12-Oct-15	6
S.R. 401 Conestoga Road (East Side)		40	02-Jun-15	27-Jul-15	61
4830	Install Temporary Traffic Control Devices	1	02-Jun-15	02-Jun-15	61
4831	Install Temporary E&S Controls (RCE, RF, FS and IP)	2	03-Jun-15	04-Jun-15	61
4832	Remove Existing Pavement	10	05-Jun-15	18-Jun-15	61
4833	Construct New Pavement	15	07-Jul-15	27-Jul-15	60
Noise Wall 9b (19+89 to 23+58)		12	19-Jun-15	06-Jul-15	61
4890	Drill Foundations & Set Posts	10	19-Jun-15	02-Jul-15	61

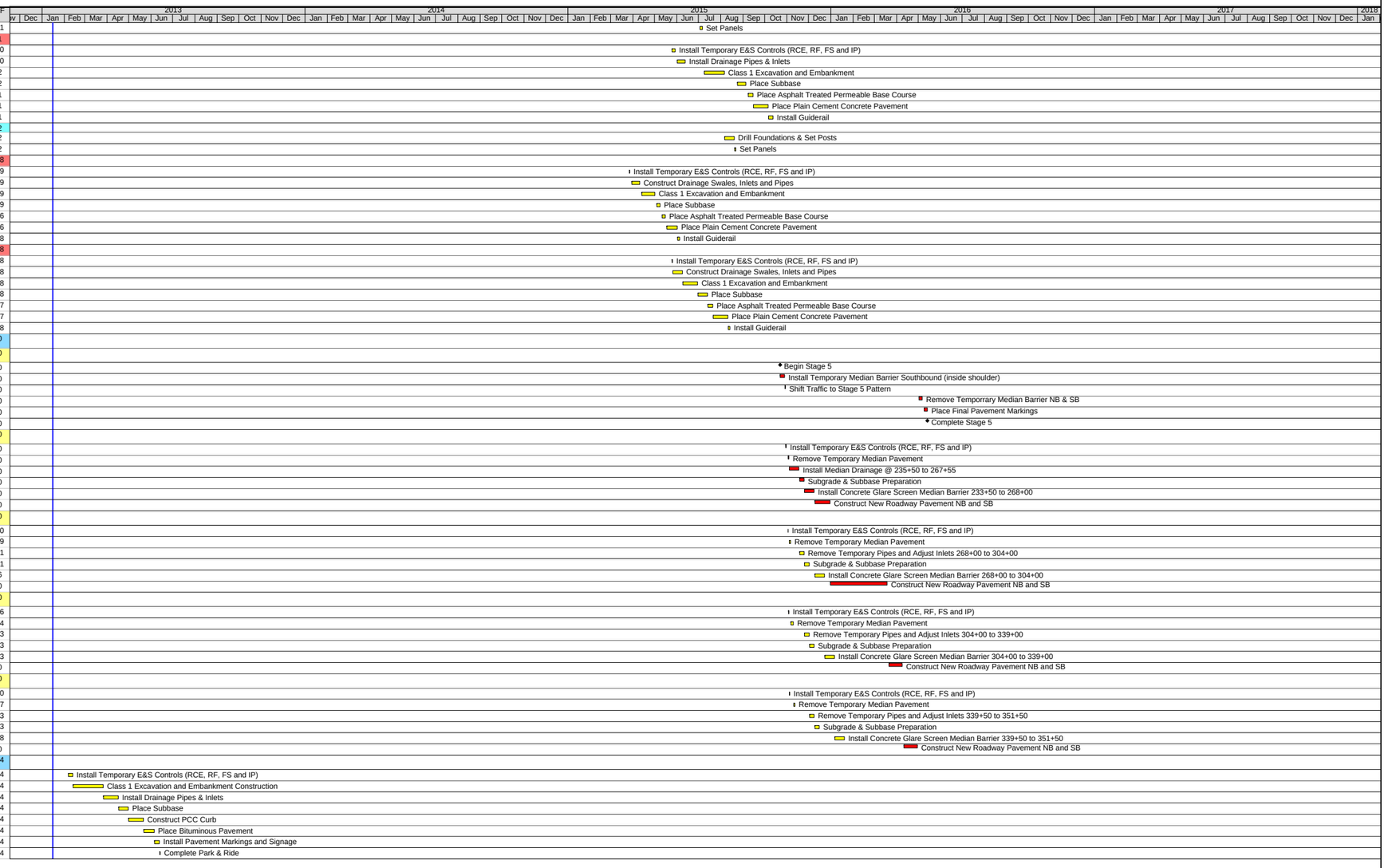


Project Start Date: 16-Jan-13
Project End Date: 13-May-17
Data Date: 16-Jan-13

Pennsylvania Department of Transportation
Engineering District 6-0

SR 0202, Section 330 - Preliminary Construction Schedule
FOR INFORMATION ONLY

Activity ID	Activity Description	Dur	ES	EF	TF
4895	Set Panels	2	03-Jul-15	06-Jul-15	61
Mainline 312+00 to 337+00		101	25-May-15	12-Oct-15	1
4500	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	25-May-15	29-May-15	20
4505	Install Drainage Pipes & Inlets	10	01-Jun-15	12-Jun-15	20
4510	Class 1 Excavation and Embankment	20	09-Jul-15	05-Aug-15	2
4515	Place Subbase	10	24-Aug-15	04-Sep-15	2
4520	Place Asphalt Treated Permeable Base Course	5	08-Sep-15	14-Sep-15	1
4525	Place Plain Cement Concrete Pavement	15	15-Sep-15	05-Oct-15	1
4530	Install Guiderail	5	06-Oct-15	12-Oct-15	1
Noise Wall NW-10 (326+45 to 330+54)		12	06-Aug-15	21-Aug-15	2
4590	Drill Foundations & Set Posts	10	06-Aug-15	19-Aug-15	2
4595	Set Panels	2	20-Aug-15	21-Aug-15	2
Ramp N (South Side)		50	27-Mar-15	04-Jun-15	98
4620	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	27-Mar-15	27-Mar-15	99
4621	Construct Drainage Swales, Inlets and Pipes	10	30-Mar-15	10-Apr-15	99
4622	Class 1 Excavation and Embankment	15	13-Apr-15	01-May-15	99
4623	Place Subbase	5	04-May-15	08-May-15	99
4624	Place Asphalt Treated Permeable Base Course	5	11-May-15	15-May-15	96
4625	Place Plain Cement Concrete Pavement	10	18-May-15	01-Jun-15	96
4626	Install Guiderail	3	02-Jun-15	04-Jun-15	98
Ramp P (North Side)		59	25-May-15	13-Aug-15	48
4720	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	25-May-15	25-May-15	48
4721	Construct Drainage Swales, Inlets and Pipes	10	26-May-15	08-Jun-15	48
4722	Class 1 Excavation and Embankment	15	09-Jun-15	29-Jun-15	48
4723	Place Subbase	10	30-Jun-15	13-Jul-15	48
4724	Place Asphalt Treated Permeable Base Course	5	14-Jul-15	20-Jul-15	47
4725	Place Plain Cement Concrete Pavement	15	21-Jul-15	10-Aug-15	47
4726	Install Guiderail	3	11-Aug-15	13-Aug-15	48
050 -- Stage 5 - Median Reconstruction		147	22-Oct-15	13-May-16	0
General		147	22-Oct-15	13-May-16	0
5000	Begin Stage 5	0	22-Oct-15		0
5005	Install Temporary Median Barrier Southbound (inside shoulder)	5	22-Oct-15	28-Oct-15	0
5010	Shift Traffic to Stage 5 Pattern	1	29-Oct-15	29-Oct-15	0
5020	Remove Temporrary Median Barrier NB & SB	5	02-May-16	06-May-16	0
5030	Place Final Pavement Markings	5	09-May-16	13-May-16	0
5999	Complete Stage 5	0		13-May-16	0
Station 229+00 to 268+00		44	30-Oct-15	30-Dec-15	0
5100	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	30-Oct-15	30-Oct-15	0
5105	Remove Temporary Median Pavement	2	02-Nov-15	03-Nov-15	0
5110	Install Median Drainage @ 235+50 to 267+55	10	04-Nov-15	17-Nov-15	0
5115	Subgrade & Subbase Preparation	5	18-Nov-15	24-Nov-15	0
5120	Install Concrete Glare Screen Median Barrier 233+50 to 268+00	10	25-Nov-15	08-Dec-15	0
5125	Construct New Roadway Pavement NB and SB	15	09-Dec-15	30-Dec-15	0
Station 268+00 to 304+00		100	02-Nov-15	18-Mar-16	0
5200	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	02-Nov-15	02-Nov-15	20
5205	Remove Temporary Median Pavement	2	04-Nov-15	05-Nov-15	19
5210	Remove Temporary Pipes and Adjust Inlets 268+00 to 304+00	5	18-Nov-15	24-Nov-15	11
5215	Subgrade & Subbase Preparation	5	25-Nov-15	01-Dec-15	11
5220	Install Concrete Glare Screen Median Barrier 268+00 to 304+00	10	09-Dec-15	22-Dec-15	6
5225	Construct New Roadway Pavement NB and SB	15	31-Dec-15	18-Mar-16	0
Station 304+00 to 339+00		114	03-Nov-15	08-Apr-16	0
5300	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	03-Nov-15	03-Nov-15	76
5305	Remove Temporary Median Pavement	2	06-Nov-15	09-Nov-15	74
5310	Remove Temporary Pipes and Adjust Inlets 304+00 to 339+00	5	25-Nov-15	01-Dec-15	63
5315	Subgrade & Subbase Preparation	5	02-Dec-15	08-Dec-15	63
5320	Install Concrete Glare Screen Median Barrier 304+00 to 339+00	10	23-Dec-15	05-Jan-16	53
5325	Construct New Roadway Pavement NB and SB	15	21-Mar-16	08-Apr-16	0
Station 339+00 to 367+00		128	04-Nov-15	29-Apr-16	0
5400	Install Temporary E&S Controls (RCE, RF, FS and IP)	1	04-Nov-15	04-Nov-15	90
5405	Remove Temporary Median Pavement	2	10-Nov-15	11-Nov-15	87
5410	Remove Temporary Pipes and Adjust Inlets 339+50 to 351+50	5	02-Dec-15	08-Dec-15	73
5415	Subgrade & Subbase Preparation	5	09-Dec-15	15-Dec-15	73
5420	Install Concrete Glare Screen Median Barrier 339+50 to 351+50	10	06-Jan-16	19-Jan-16	58
5425	Construct New Roadway Pavement NB and SB	15	11-Apr-16	29-Apr-16	0
002 -- Park n Ride		92	06-Feb-13	13-Jun-13	14
7000	Install Temporary E&S Controls (RCE, RF, FS and IP)	5	06-Feb-13	12-Feb-13	14
7005	Class 1 Excavation and Embankment Construction	30	13-Feb-13	26-Mar-13	14
7010	Install Drainage Pipes & Inlets	15	27-Mar-13	16-Apr-13	14
7015	Place Subbase	10	17-Apr-13	30-Apr-13	14
7020	Construct PCC Curb	15	01-May-13	21-May-13	14
7025	Place Bituminous Pavement	10	22-May-13	05-Jun-13	14
7030	Install Pavement Markings and Signage	5	06-Jun-13	12-Jun-13	14
7999	Complete Park & Ride	1	13-Jun-13	13-Jun-13*	14



General Decision Number: PA120006 09/28/2012 PA6

Superseded General Decision Number: PA20100006

State: Pennsylvania

Construction Types: Heavy and Highway

Counties: Bucks, Chester, Delaware, Montgomery and
Philadelphia Counties in Pennsylvania.

HEAVY AND HIGHWAY CONSTRUCTION PROJECTS

Modification Number	Publication Date
0	01/06/2012
1	02/24/2012
2	04/13/2012
3	04/20/2012
4	05/11/2012
5	05/25/2012
6	06/15/2012
7	07/13/2012
8	08/03/2012
9	09/07/2012
10	09/28/2012

BOIL0013-003 01/01/2011

	Rates	Fringes
BOILERMAKER	$ 37.35	30.02

CARP0454-003 07/01/2011

	Rates	Fringes
PILEDRIVERMAN	$ 38.15	28.27

Footnote: PAID HOLIDAYS: Washington's Birthday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day (provided the employee works the day before the holiday and the day after the holiday).

CARP0845-005 05/01/2012

	Rates	Fringes
CARPENTER	$ 39.66	24.44

FOOTNOTE:

A. PAID HOLIDAY: LABOR DAY

CARP1906-001 07/01/2011

	Rates	Fringes
MILLWRIGHT	$ 35.78	26.84

ELEC0098-001 05/02/2011

BUCKS COUNTY: Starting at the Delaware River and following the west limits of the Borough of Bristol, along the continuation of U.S. Highway 13 and under the Pennsylvania Railroad Bridge to Route 09113, north 09113 to Route 152, north along Route 152 to the Humeville Road, east on Humeville Road to Route 333, north on Route 344 to the junction of Spurs 281 and 252, continue north on Spur 252 to Route 09028, west on 09028 to Route 152, north on 152 to TR 232, north on TR 532 to Tr 113, north on TR 113 to TR 232 at Anchor Inn, northeast on TR 232 and continue northeast along Rounte 659 to Route 09060, west on 09060 to Route 402, north on 402 to the Borough line at the southwest corner of the Borough of New Hope. The Bouough of New Hpoe is excluded.Starting at the Delaware at the Delaware River and proceeding southwest along the Plumstead-Solebury and the Plumstead-Buckingham Township lines to Route 09064, northwest on 09064 to U.S. Highway 611 south on 611 to the spur of Route 270, northwest along the spur to Route 397, Southwest on 397 to Route 350, southeast on 350 to Route 395, southwest on 395 to Route 09060, southeast on 09069 to Route 09041 southwest on 09041 to the Montgomery County line. DELAWARE COUNTY: That portion east of a line following State Highway 320 from Montgomery County to Maple, then along the Springfield Road to Saxer Ave, along Saxer Avenue to Powell Road, along Powell Road to State Highway 420 and continuing in a straight line to the Delaware River. MONTGOMERY COUNTY: That portion southeast of a line following Lower State Road from Bucks County southwest to the Bethlehem Pike (U.S Highway 309), south on the Bethlehem Pike to the Penllyn Pike, southwest on the Penllyn and Blue Bell Pikes to the Wissahickon Creek, southeast on the Wissahickon Creek to the Butler Pike to North Lane near Conshohocken Borough, southwest on North Lane to Schuylkill River and continuing southeast in a line to the Spring Mill Road and southwest on the Spring Mill Road to Delaware County. PHILADELPHIA COUNTY

	Rates	Fringes
ELECTRICIAN	$ 46.85	28.86

ELEC0102-003 06/04/2012

BUCKS COUNTY (Plumstead, Bedminister, Tinicum, Nockomixon, Bridgeton and Durham Townships in their entireties, and that portion of Haycock and Springfield Townships east of a line following State Highway 412, from Northampton County south to Route 09071 to State Highway 212, along Highway 212 to Route 09068, and along 09068 to State Highway 313. Also included is that portion of Bublin Borough east of State Highway 313

	Rates	Fringes
ELECTRICIAN	$ 48.93	55.5%

ELEC0126-002 05/28/2012

CHESTER, DELAWARE, MONTGOMERY, PHILADELPHIA, AND REMAINDER OF

BUCKS COUNTY

	Rates	Fringes
Line Construction:		
Groundman	$ 28.63	26%+7.50
Lineman	$ 47.72	26%+7.50
Truck driver	$ 31.02	26%+7.50
Winch truck operator	$ 33.40	26%+7.50

ELEC0269-001 01/01/2010

BUCKS COUNTY (Area East of a line starting at the Delaware River and following the west limits of the Borough of Bristol, along the continuation of U.S. Highway 13 and under the Pennsylvania Railroad Bridge to Route 09113, north along 09113 to route 152, north along route 152 to the Hulmeville Rd., east on the Hulmeville to Route 344, north on route 344 to the junction of Spurs 281 and 252 continue north on spur 252 and route 09028, west on 09028 to Route 152, north on 152 to TR 532, north on TR 532 to TR 113, north on TR 113 to TR 232 as Anchor Inn, northeast on TR 232 and continue northeast along 659 to Route 09060, West on 09060 to Route 402, north on 402 to the Borough Line at the southwest corner of the Borough of New Hope; including the Boroughs of New Hope and Bristol)

	Rates	Fringes
ELECTRICIAN	$ 47.34	53.3%+.25

ELEC0269-002 10/02/2006

BUCKS COUNTY - That portion east of a line starting at the Delaware River and following the west limits of the Borough of Bristol, along the continuation of U.S. Highway 13 and under the Pennsylvania Railroad Bridge to Route 09113, north along 09113 to route 152, north along route 152 to the Hulmeville Rd., east on the Hulmeville to Route 344, north on route 344 to the junction of Spurs 281 and 252 continue north on spur 252 and route 09028, west on 09028 to Route 152, north on 152 to TR 532, north on TR 532 to TR 113, north on TR 113 to TR 232 as Anchor Inn, northeast on TR 232 and continue northeast along 659 to Route 09060, West on 09060 to Route 402, north on 402 to the Borough Line at the southwest corner of the Borough of New Hope. The Boroughs of New Hope and Bristol are included.

	Rates	Fringes
Line Construction:		
Groundman, Truck Driver, and Winch Operato	$ 35.58	51%+.25
Lineman, Cable Splicer, Heavy Equipment Operator	$ 44.48	51%+.25

ELEC0313-003 06/01/2011

DELAWARE COUNTY :(That portion south of U.S. Highway No. 1 and

west of U.S. Highway No. 202) Chester County (That portion South and east of U. S. Highway 1)

	Rates	Fringes
ELECTRICIAN	$ 35.00	23.70

ELEC0375-001 06/01/2012

BUCKS COUNTY (East Rock Hill, West Rock Hill, Milford and Richland Towships in their entirety and that portion of Haycock and Springfield Townships west of a line following State Highway 212 from Northampton County South to Route 09071 along 09071 to state Highway 212, along Highway 212 to Route 09068 and along 09068 to State Highway 313) MONTGOMERY COUNTY(Upper Hanover Twp.in its entirety)

	Rates	Fringes
ELECTRICIAN	$ 38.53	13.93

ELEC0380-001 09/06/2010

BUCKS COUNTY (Hilltown and New Britain Townships in their entirety; that portion of Telford Borough Northeast of County Line Road (Main Street) and bounded by West Rock Hill and Hilltown Township that portion of Dublin Borough West of State Highway 313, and that portion of Doylestown and Warrington Townships and Doylestown Borough Northwest of a line following U.S. Highway 611 South from Route 09064 to the spur of Route 270, and proceeding Northwest along the spur to Route 397, Southwest on 397 to Route 350, Southeast on 350 to Route 395, Southwest on 395 to Route 09069, Southeast on 09069 to Route 09041, Southwest on 09041 to the Montgomery County Line) DELAWARE COUNTY (The portion of Radnor Township North of U.S Highway 30 and West of State Highway 320) MONTGOMERY COUNTY (The portion Northwest of a line following Lower State Road from Bucks County Southwest to Bethlehem Pike (U.S. Highway 309), South on Bethlehem Pike to Penllyn Pike, Southwest on the Penllyn and Blue Bell Pikes to Wissahickon Creek to the Butler Pike, Southwest Wissahickon Creek to Butler Pike, Southwest on Butler Pike, to North Lane near Conshohocken Borough, Southeast on North Lane to the Schuylkill River and continuing Southeast in a line to Spring Mill Road, Southwest on Spring Mill Road to Delaware County; but excluding Upper Hanover, Douglas, Upper Pottsgrove, West Pottsgrove Townships and also excluding that portion of the Borough of Pottstown North and West of a line drawn Northeast on Kein Street from the Schuylkill River to Reading Railroad Northwest on the railroad to Madison Street, to High Street, East on High Street to Green Street, North on Green Street and Northeast on Mintzer Street to Lower Pottsgrove Township Line, along this township line and the borough line Northwest to Adams Street and Beehive Road, Northeast on Beehive Road to the Township Line at Mervine Street)

CHESTER COUNTY (East Coventry. East Vincent, West Vincent, East Pikeland, West Pikeland, Uwchlan, Upper Uwchlan, East

Brandywine, Schuylkill and Charleston Townships in their entirety, and that portion of Clan, East Clan, East Whiteland & West Whiteland, Tredyffrin, Willistown, Easttown Townships and Borough of Downingtown north of U. S.Highway 30)

	Rates	Fringes
ELECTRICIAN	$ 39.47	22.82

ELEC0654-001 05/27/2012

DELAWARE COUNTY (The portion south of U.S. Highway 30 and north of that part U.S. Highway 1 between U.S. Highway 202 and the Chester County Line, and east of that part of U.S. Highway 202 between U.S. Highway 1 and the Delaware Line, and west of a line extending from Montgomery County along State Route 320 to Maple, then along the Springfield Road to Saxer Avenue, along Saxer Avenue to Powell Road; along Powell Road to State Highway 420; along 420 and continuing in a straight line to the Delaware River in the State of Pennsylvania) CHESTER COUNTY (That portion south of U. S. Highway 30 and north of that part of U.S. Highway 1)

	Rates	Fringes
ELECTRICIAN	$ 39.38	17.41%+16.19

ELEC0743-001 09/01/2010

CHESTER (Coatesville, Honey Brook, South Coventy, Valley, Wallace, Warwich, West Brandywine, West Clan, and West Nantmeal Twps); AND MONTGOMERY (Douglas, Pottstown, Upper Pottsgrove, and West Pottsgrove, Twps) COUNTIES

	Rates	Fringes
ELECTRICIAN	$ 37.87	3%+15.50

New Year's Day, Good Friday, Memorial Day, Fourth of July, Labor Day, Veterans' Day, Thanksgiving Day, and Christmas Day.

ELEC0743-007 09/01/2010

CHESTER COUNTY (The portion of Sadsbury and West Sadsbury Township north of U.S. Highway 30)

	Rates	Fringes
ELECTRICIAN	$ 31.87	3%+15.50

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* ENGI0542-005 05/01/2012

	Rates	Fringes
Power equipment operators:		

(HEAVY, HIGHWAY, AND WATER
LINE CONSTRUCTION (Off Plant
Site))

GROUP 1	$ 40.43	24.48+A
GROUP 1a	$ 43.43	25.37+A
GROUP 2	$ 40.18	24.41+A
GROUP 2a	$ 43.18	25.30+A
GROUP 3	$ 36.10	23.20+A
GROUP 4	$ 35.79	23.12+A
GROUP 5	$ 34.07	22.61+A
GROUP 6	$ 33.08	22.32+A

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Handling steel and stone in connection with erection, cranes doing hook work, any machine handling machinery, helicopters, concrete pumps building machines similar to the above, including remote control equipment.

GROUP 1a: Machines handling steel, or the functional equivalent, and stone in connection with erection 15 ton and over factory rating; Cranes doing hook work 15 ton and over factory rating; Any machines handling machinery; HIgh Rail/Burro Crane 15 ton and over factory rating; Rail Loader (Winch Boom Type) 15 ton and over factory rating; Concrete Pumps (Building) 120 feet of Boom length or less (200 yard pour or less); Machines similar to above, including remote control equipment; Equipment in this Wage Group that does not require an oiler.

GROUP 2: All types of cranes, All types of backhoes, Cableways, Draglines, Keystones, all types of shovels, Derricks, Pavers 21E and over, Trenching machines, Trench shovel, Graddalls, Front-End loaders, Boat Captain, Pippin type backhoes, Tandems scrapers, Towers type crane operation erecting, Dismantling, Jumping or Jacking, Drills (self-containes), (drillmaster type) forklift (20 ft. and over), Moter patrols (fine grade), Batch plant with mixer, Carryalls, Scraper, Trounapulls, Roller (Hith Grade Finishing), Spreaders (asphalt), Bulldozers and Tractors, Mechanic welder, Conveyor loaders (euclid-type wheel), Concrete pump, Milling Machines, Hoist with two towers, Building hoist double drum (unless used as a single drum), Mucking machines in tunnel, All auto grade and concrete finishing machines, Bundle pullers/extractors (tublar), toxic/hazardous waste removal rate 20 per cent added to all classificiation, bobcat, side broom, directional boring machines, vermeet saw type machines (other than hand held) tractor mounted hydro axe, chipper with boom, all machine similar to the above includidng remote control equipment.
3: Asphalt plant engineers, Well drillers, Ditch witch (small trencher), Motor patrols, Fine grade machines, Ten-ton roller (grade fill stone base), Concrete breaking machines, Guilloline only, Stump grinder, Conveyors (except building conveyors), Fork lift trucks of all types, High pressure boliers, Machine similar to the above, including remote control equipment.

GROUP 2a: Crawler backhoes and Crawler gradalls over one cublic yard factory rating; Hydraulic backhoes over one

cubic yard factory rating; All types of cranes 15 ton and over factory rating; Single person operation truck cranes 15 ton and over factory rating; Cherry picker type machinery and equipment 15 ton and over factory rating; Concrete Pumps (Heavy/Highway); Machines similar to above, including remote control equipment; Equipment in this Wage Group that does not require an oiler.

GROUP 3: Asphalt plant engineers, Well drillers, Ditch witch (small trencher), Motor patrols, Fine grade machines, Ten-ton roller (grade fill stone base), Concrete breaking machines, Guilloline only, Stump grinder, Conveyors (except building conveyors), Fork lift trucks of all types, High pressure boliers, Machine similar to the above, including remote control equipment.

GROUP 4: Seaman, Pulverzer form line grader, Farm tractors, road finishing, Concrete spreader, Power broom (self-contained), Seed spreader, Grease truck.

GROUP 5: Compressors pumps, Well point pumps, Welding machines Tireman, Power equipment, Maintenance engineer (power boats), and macnines similar to the above.

GROUP 6: Fireman, Oilers and deck hands (personnel Boats), grease truck.

FOOTNOTE: A. PAID HOLIDAYS: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day and Christmas Day

TOXIC/HAZARDOUS WASTE REMOVAL*

Add 20 per cent to basic hourly rate for all classifications

IRON0068-003 07/01/2011

BUCKS COUNTY (Remainder)

	Rates	Fringes
Ironworkers: Structural, Ornamental, and Reinforcing	$ 34.35	18.78

IRON0401-001 07/01/2011

BUCKS (Includes the towns of BEnsalem, Breadysville, Bristol Churchville, Cornwells Heights, Davisville, Eddington, Feasterville, Hartsville, Johnsville, Line Lexington, Neshaminy, Southampton, Tradesville, Trevose, Unionville, Warminster, and Warrington): DELAWARE (North of a line running along State Rt 352 to right on State Rt 291 to State Line); CHESTER (Includes the towns of Aldham, Anselma, Bacton, Berwyn, Cedar Hollow, Charlestown, Chester Springs, Cromby, Devon, Devault, Daylesford, Diamond Rock, Dutton Mill, Frazer, Goshenville, Howellville, Kimberton, Ludwigs Corner, Paoli, Matthews, Perkiomen Junction, Phoenixville, Rapps Corner, Rocky Hill, Strattford, Sugartown, Tanguy, Valley Forge, Valley Store, White Horse, Williams Corner, and Wilsons Corner); MONTGOMERY (Remainder); and PHILADELPHIA COUNTIES

	Rates	Fringes
IRONWORKER, STRUCTURAL AND ORNAMENTAL.....	$ 44.70	27.15

IRON0405-001 07/01/2012

BUCKS (Includes the towns of Bensalem, Breadysville, Bristol, Churchville, Cornwell Heights, Davisville, Eddington, Festerville, Hartsville, Johnsville, Line Lexington, Neshaminy, Southhampton, Transville, Trevose, Unionville, Warminister, and Warrington), DELAWARE (North of a line running along State Route 352 to right on State Route 291 to State Line); CHESTER (Includes the towns of Aldham, Anselma, Bacton, Berwyn, Cedar Hollow, Charlestown Chester Springs, Cromby, Devon, Devault, Daylesford, Diamaond Rock, Dutton Mill, Frazer, Goshenville, Howellville, Kimberton, Ludwigs Corner, Paoli, Mathews, Perkiomen Junction, Phoenixville, Rapps Corner, Rocky Hill, Strafford, Sugartown, Tanguy, Valley Forge, Valley Store, White Horse, Williams Corner, and Wilsons Corner); MONTGOMERY (Remainder); AND PHILDELPHIA COUNTIES

	Rates	Fringes
IRONWORKER.....	$ 38.83	25.50
Reinforcing Steel Mesh, Rebar Work		

The following holidays shall be observed and when work is performed thereon it shall be paid for at twice the base rate: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Employees shall be off Christmas Eve Day and receive four hours pay. Employees who have to work on Christmas Eve Day shall work four hours and be paid for eight hours pay for the holiday. Any time worked beyond fours hours shall be paid at the double time rate plus the four hours holiday pay. To receive holiday pay, the employee must work the day before Christmas Eve and the first working day after Christmas Day.

IRON0405-003 07/01/2012

BUCKS COUNTY (Includes the towns of Bensalem, Breadysville, Bristol, Churchville, Cornwells Heights, Davisville, Eddington, Feasterville, Hartsville, Johnsville, Line Lexington, Neshaminy, Southhampton, Tradesville, Trevose, Unionville, Warminster, and Warrington), DELAWARE (North of a line running along State Route 352 to right on Stae Route 291 to State Line); CHESTER (Includes the towns of Alsham, Anselma, Bacton, Berwyn, Cedar Hollow, Charlestown, Chester Springs, Cromby, Devon, Devault, Daylesford, Diamond Rock, Dutton Mill, Frazer, Goshenville, Howellville, Kimberton, Ludwig Corner, Paoli, Mattews, Perkiomen Junction, Phoenixville, Rapps Corner, Rocky Hill, Strafford, Sugartown, Tanguy, Valley Forge, Valley Store, White Horse, Williams Corner); MONTGOMERY (Remainder); and PHILADELPHIA COUNTIES

	Rates	Fringes
IRONWORKER (Rigger and Machinery Mover)	$ 36.22	24.45

The following holidays shall be observed and when work is performed thereon it shall be paid for at twice the base rate: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas Day. Employees shall be off Christmas Eve Day and receive four hours pay. Employees who have to work on Christmas Eve Day shall work four hours and be paid for eight hours pay for the holiday. Any time worked beyond fours hours shall be paid at the double time rate plus the four hours holiday pay. To receive holiday pay, the employee must work the day before Christmas Eve and the first working day after Christmas Day.

IRON0420-007 07/01/2012

MONTGOMERY COUNTY (Anise, Berguy, Congo, Douglas, East Greenfield, East Limerick, East Slaford, East Zieglerville, Engleville, Fagleysville, Ford, Gilbertsville, Green Lane, Hanover, New Perksionenville, Niato, Palm, Obelish, Pennsburg, Perkiomen, Pottstown, Royerfored, Roytown, Sammamansville, Tylerport, Upper Hanover, Upper Pottsgrove, Upper Wodall, West Limerick, West Salford, and West Zieglerville Townships)

	Rates	Fringes
Ironworkers:		
Projects $200,000,000 and greater, all work	$ 31.00	23.00
Projects less than $200,000,000	$ 30.00	23.00

IRON0451-004 07/01/2009

CHESTER (Remainder of County), AND DELAWARE (Remainder of County) COUNTIES

	Rates	Fringes
Ironworkers: (Structural, Ornamental, and Reinforcing)	$ 31.60	23.90

LABO0413-003 05/01/2012

	Rates	Fringes
Laborers:		
GROUP 1	$ 26.00	22.70
GROUP 2	$ 26.20	22.70
GROUP 3	$ 26.20	22.70
GROUP 4	$ 20.80	22.70
GROUP 5	$ 26.85	22.70
GROUP 6	$ 26.90	22.70
GROUP 7	$ 26.75	22.70
GROUP 8	$ 26.50	22.70

GROUP 9	$ 26.35	22.70
GROUP10	$ 26.40	22.70
GROUP11	$ 26.40	22.70
GROUP12	$ 30.13	22.70
GROUP13	$ 26.25	22.70

LABORERS CLASSIFICATIONS

GROUP 1: Yardwork Laborers; Scale Mixermen; Bunermen; Feeders; Dustmen

GROUP 2: General Laborer; Asphalt Shovelers; Sheeting, Shoring & Lagging Laborers; Stone, Granite & Artificial Stone Setting Laborer; Hod Carriers; Scaffold Builders; Relief Joints & Approach Slabs; Assembling & Placing Gabions; Pneumatic Tool Laborers; Concrete Forms & Stripping Laborers; Concrete & Lumber Material Laborers; Steel & Steel Mesh (Carrying & Handling); Form Pinners; Mortar Mixers; Pouring & Placing Concrete; Grade Men

GROUP 3: Vibrator Laborer; Finish Surface Asphalt Rackers; Jackhammer Operators; Paving Breaker Operator; Pipelayer & Caulker (all joints up to within 5 feet of the Building Foundation Line); Conduit & Duct Layers

GROUP 4: Flagperson

GROUP 5: Miners

GROUP 6: Burners

GROUP 7: Miner Bore Driver; Blasters; Drillers; Pneumatic Shield Operator

GROUP 8: Form Setters

GROUP 9: Trackmen; Brackmen; Groutmen; Bottom Shaft Men; All Other Laborers in Free Air Tunnels; Underpinning (When an underpinning excavation is dug eight feet or more below the natural grade or where an excavation for a pier hole of five feet square or less and eight feet or more dep is dug, the rate shall apply only after a depth of eight feet is reached, to the men working in the bottom)

GROUP 10: Circular Caissons (Where an excavation for circular caissons are dug eight feet or more below the natural grade level adjacent to the starting point of the caisson hole, at ground level, for the men working in the bottom); Welders, Burners & Air Tuggers

GROUP 11: Powderman; Multiple Wagon Drill Operator

GROUP 12: Toxic/Hazardous Waste Handler

GROUP 13: Wagon Drill/Hydraulic Track Drill Operator

LABO0413-005 04/01/2012

	Rates	Fringes

Landscaping
Farm Tractor Driver,
Hydroseeder Nozzleman,
Mulcher Nozzleman.....$ 18.71 21.03+A

FOOTNOTE:

A. PAID HOLIDAYS: Independence Day, Labor Day, and Thanksgiving Day

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* PAIN0021-003 05/01/2012

	Rates	Fringes
Painters:		
Bridge	$ 45.25	20.87
All Other Work	$ 37.50	20.84

PLAS0592-008 05/01/2012

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER	$ 31.35	27.46

PLUM0420-001 05/01/2011

	Rates	Fringes
Steamfitter		
Bucks, Chester, Delaware, Montgomery and Philadelphia Counties	$ 44.93	26.18

PLUM0690-008 05/01/2012

	Rates	Fringes
PLUMBER	$ 42.93	28.61

TEAM0470-002 05/01/2009

	Rates	Fringes
Truck drivers:		
GROUP 1	$ 25.25	13.1225+A
GROUP 2	$ 25.35	13.1225+A
GROUP 3	$ 25.60	13.1225+A

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1 - Stake body truck (single axle, dumpster)

GROUP 2 - Dump trucks, tandem and batch trucks, semi-trailers, agitator mixer trucks, and dumpcrete type vehicles, asphalt distributors, farm tractor when used for transportation, stake body truck (tandem)

GROUP 3 - Euclid type, off-highway equipment or belly dump trucks and double hitched equipment, staddle (ross) carrier, low-bed trailers

GROUP 1 - Stake body truck (single axle), dumpster

GROUP 2 - Dumpt trucks, tandem and batch trucks, semi-trailers, agitator mixer trucks, and dumpcrete type vehicles, asphalt distributors, farm tractor when used for transportation, stake body truck (tandem)

GROUP 3 - Euclid type, off-highway equipment or bell dump trucks and double hitched equipment, staddle (ross) carrier, low-bed trailers

FOOTNOTE:

A. PAID HOLIDAYS: Memorial Day, Independence Day, Labor Day, Thanksgiving Day and five personal holidays provided employee works at least one day in the three work days before and at least one day in the three work days after the said holiday. Emloyee earns a personal holiday every two months, provided employee has worked twenty-six day in each consecutive two month period, up to a maximum of five per calendar year. After 130 work days the employee is entitled to all five personal holidays.

B. PAID VACATION: Employee will earn one vacation day for every two months, provided employee has worked twenty-six day in each consecutive two month period, up to a maximum of five vacation days per calendar year. After 130 workdays the employee is entitled to all five days of vacation. Employees with 5 years of seniority, earn an additional week of vacation, accrued in the same way.

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

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

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

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union

classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters , PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable , i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rate.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

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

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

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

With regard to any other matter not yet ripe for the formal

process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

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

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

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

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

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

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

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

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END OF GENERAL DECISION