



**PATTON TOWNSHIP  
CENTRE COUNTY, PENNSYLVANIA**

100 PATTON PLAZA – STATE COLLEGE, PENNSYLVANIA – 16803

PHONE: 814/234-0271 — FAX: 814/238-7790

EMAIL: [patton@twp.patton.pa.us](mailto:patton@twp.patton.pa.us) — WEB SITE: <http://patton.centreconnect.org>

**TRANSMITTED BY E-MAIL TO [cdtlegal@centredaily.com](mailto:cdtlegal@centredaily.com)**

April 11, 2018

Centre Daily Times  
Legal Advertising Department  
P. O. Box 89  
State College, Pennsylvania 16804

To Whom It May Concern:

Please publish the following legal advertisement two times, in the Wednesday, April 25, 2018 and Wednesday May 2, 2018 editions.

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**BID NOTICE**

Patton Township is requesting bids for “Emergency Power Revisions” at the Township offices. Bids will be accepted at the Patton Township Office, 100 Patton Plaza, State College, PA 16803, until 2:00 pm prevailing time on Wednesday, May 16, 2018. Awarding of the contract will take place at a meeting of the Patton Township Board of Supervisors on May 23, 2018.

“Emergency Power Revisions” consists of the installation of feeders to existing garage for connection to the existing electrical service at the Township Offices and emergency generator. Any bid in excess of \$25,000 must include prevailing wage rates.

Plans and contract documents can be reviewed at the Patton Township Office or may be viewed or downloaded from the Township website:

<http://twp.patton.pa.us/newslettersnotices/legal-notices>

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Please provide proof of publication along with your statement.

Sincerely,

*Douglas J. Erickson*

Township Manager/Secretary

cc: M. Washburn, L. Moore (A/P), S. Casson

# EMERGENCY POWER REVISIONS

## PATTON TOWNSHIP ADMINISTRATION BUILDING

100 PATTON PLAZA, STATE COLLEGE, PA  
PATTON TOWNSHIP, CENTRE COUNTY



521 East Beaver Ave.

t: 814.234.6806

State College, PA 16801

f: 814.234.0256

e: fjfaia@aol.com

DATE: FEB. 27, 2018		
PROJ. NO.: 1746		
REVISIONS		
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Notice to Bidders  
Weekly Payroll Certification for Public Works Projects  
Prevailing Wage Rates  
Bid Proposal  
Owner's Instructions for Insurance  
Standard Form of Agreement Between Owner and Contractor  
Application and Certificate for Payment  
Change Order  
Certificate of Substantial Completion  
Supplemental General Conditions

**DIVISION 01 - GENERAL REQUIREMENTS**

Section 1A - Demolition and Waste Disposal

## **NOTICE TO BIDDERS**

Sealed bids will be received by the Patton Township Board of Supervisors for the following project:

Emergency Power Revisions  
Patton Township Building  
100 Patton Plaza  
State College, Centre County, PA

Owner: Patton Township Board of Supervisors  
100 Patton Plaza  
State College, PA 16803

Architect: Fernsler Hutchinson Architecture, LLC  
521 East Beaver Avenue  
State College, PA 16801  
Phone: (814) 234-6806  
Fax: (814) 234-0256  
Email: fjfaia@aol.com

Engineer: Penno Engineering, LLC  
2746 West College Avenue  
State College, PA 16801  
Phone: (814) 234-7366  
Fax: (814) 234-7040  
Email: frank@penoeng.com

Construction Contract: Electrical Construction Prime Contract

Project Scope: Installation of feeders to existing garage for connection to existing electrical service and emergency generator

Builders' Exchanges: One full set of Bid Documents will be filed with the following Builders' Exchanges:  
Altoona Builders' Exchange  
Pittsburgh Builders' Exchange

Drawings and Specifications: Available electronically at the Patton Township Office on April 11, 2018. Prime Contractors shall provide all subcontractors and suppliers with documents if necessary.

Request for Information from Architect: All requests for substitution, clarification of documents, etc. shall be by fax at (814) 234-0256 or email at fjfaia@aol.com and responded to by same.

Pre-Bid Building Inspection: Bidding Contractors shall have access to the existing building where proposed construction is to occur by contacting Doug Erickson, Township Manager, to arrange a convenient time and date at (814) 234-0271.

Bid Opening:

Date: Wednesday, May 16, 2018  
Time: 2:00 pm Eastern Prevailing Time  
Place: Patton Township  
100 Patton Plaza, State College, PA  
Submitted to: Doug Erickson, Township Manager  
Patton Township  
100 Patton Plaza  
State College, PA 16803

The sealed bid shall be mailed or hand delivered

Bid Award: Wednesday, May 23, 2018, at 7:00 pm

Proposal Guarantee: None

Proposal Period: 90 days from date of bid opening

Completion Date: 90 calendar days after Notice to Proceed

Liquidated Damages: None

Construction Bond Requirements: 100% Performance Bond except if bid is less than \$19,700

Construction Insurance Requirements:

1(a) Public Liability	\$1,000,000/\$2,000,000
(b) Property Damage	\$100,000/\$500,000
2(a) Vehicular	\$500,000/\$1,000,000
(b) Property Damage	\$500,000
3(a) Workman's Comp	Affidavit Required
4(a) Fire Insurance	Complete coverage by Contractor in the names of the Owner and Contractor

Prevailing Minimum Wages: Pennsylvania Prevailing Wage Act, P.L. 987, Approved August 15, 1961.


Should the Contractor's bid exceed \$25,000, prevailing wage rates shall apply. If the Contractor's bid is less than \$25,000, prevailing wage rates shall not apply nor the requirement for wage rate certifications.

Construction Payments: On, or before, the 3rd Thursday of each month, ninety percent (90%) of labor and materials installed and/or stored on the site.

The owner reserves the right to waive any informalities in or reject any or all proposals.

# WEEKLY PAYROLL CERTIFICATION FOR PUBLIC WORKS PROJECTS

Contractor or  Subcontractor (Please check one) **ALL INFORMATION MUST BE COMPLETED**

<b>CONTRACTOR</b>		<b>SUBCONTRACTOR</b>		 DEPARTMENT OF <b>LABOR &amp; INDUSTRY</b> COMMONWEALTH OF PENNSYLVANIA BUREAU OF LABOR LAW COMPLIANCE PREVAILING WAGE DIVISION 7TH & FORSTER STREETS HARRISBURG, PA 17120 1-800-932-0665						
<b>ADDRESS</b>		<b>ADDRESS</b>								
<b>PAYROLL NUMBER</b>	<b>WEEK ENDING DATE</b>	<b>PROJECT AND LOCATION</b>		<b>PROJECT #</b>						
		<b>PROJECT SERIAL #</b>								
EMPLOYEE NAME	APPR. RATE (%)	WORK CLASSIFICATION	DAY AND DATE		S-TIME 0-TIME	BASE HOURLY RATE	TOTAL FRINGE BENEFITS (C=Cash) (FB=Contributions)*	TOTAL DEDUCTIONS	GROSS PAY FOR PREVAILING RATE JOB(S)	CHECK #
			HOURS WORKED EACH DAY							

**THE NOTARIZATION MUST BE COMPLETED ON FIRST AND LAST SUBMISSIONS ONLY. ALL OTHER INFORMATION MUST BE COMPLETED WEEKLY.**

\*FRINGE BENEFITS EXPLANATION (FB): Bona fide benefits contribution, except those required by Federal or State Law (unemployment tax, workers' compensation, income taxes, etc.)

Please specify the type of benefits provided and contributions per hour:

- 1) Medical or hospital care \_\_\_\_\_
- 2) Pension or retirement \_\_\_\_\_
- 3) Life insurance \_\_\_\_\_
- 4) Disability \_\_\_\_\_
- 5) Vacation, holiday \_\_\_\_\_
- 6) Other (please specify) \_\_\_\_\_

**CERTIFIED STATEMENT OF COMPLIANCE**

1. The undersigned, having executed a contract with \_\_\_\_\_  
(AWARDING AGENCY, CONTRACTOR OR SUBCONTRACTOR)

\_\_\_\_\_ for the construction of the above-identified project, acknowledges that:

- (a) The prevailing wage requirements and the predetermined rates are included in the aforesaid contract.
- (b) Correction of any infractions of the aforesaid conditions is the contractor's or subcontractor's responsibility.
- (c) It is the contractor's responsibility to include the Prevailing Wage requirements and the predetermined rates in any subcontract or lower tier subcontract for this project.

2. The undersigned certifies that:

- (a) Neither he nor his firm, nor any firm, corporation or partnership in which he or his firm has an interest is debarred by the Secretary of Labor and Industry pursuant to Section 11(e) of the PA Prevailing Wage Act, Act of August 15, 1961, P.L. 987 as amended, 43 P.S. § 165-11(e).
- (b) No part of this contract has been or will be subcontracted to any subcontractor if such subcontractor or any firm, corporation or partnership in which such subcontractor has an interest is debarred pursuant to the aforementioned statute.

3. The undersigned certifies that:

(a) the legal name and the business address of the contractor or subcontractor are: \_\_\_\_\_  
 \_\_\_\_\_

(b) The undersigned is:  a single proprietorship  a corporation organized in the state of \_\_\_\_\_  
 a partnership  other organization (describe) \_\_\_\_\_

(c) The name, title and address of the owner, partners or officers of the contractor/subcontractor are:

NAME	TITLE	ADDRESS

The willful falsification of any of the above statements may subject the contractor to civil or criminal prosecution, provided in the PA Prevailing Wage Act of August 15, 1961, P.L. 987, as amended, August 9, 1963, 43 P.S. § 165.1 through 165.17.

\_\_\_\_\_  
 (DATE)

\_\_\_\_\_  
 (SIGNATURE)

\_\_\_\_\_  
 (TITLE)

\_\_\_\_\_  
 SEAL

Taken, sworn and subscribed before me this \_\_\_\_\_ Day  
 of \_\_\_\_\_ A.D., \_\_\_\_\_

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

Project Name:	Electrical Additions to Existing Facility
Awarding Agency:	Patton Township Board of Supervisors
Contract Award Date:	5/23/2018
Serial Number:	18-01489
Project Classification:	Building
Determination Date:	2/28/2018
Assigned Field Office:	Altoona
Field Office Phone Number:	(814)940-6224
Toll Free Phone Number:	
Project County:	Centre County



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

<b>Project: 18-01489 - Building</b>	<b>Effective Date</b>	<b>Expiration Date</b>	<b>Hourly Rate</b>	<b>Fringe Benefits</b>	<b>Total</b>
Asbestos & Insulation Workers	6/26/2017		\$32.00	\$26.51	\$58.51
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2018		\$29.52	\$18.22	\$47.74
Boilermaker (Commercial, Institutional, and Minor Repair Work)	3/1/2017		\$28.52	\$18.22	\$46.74
Boilermakers	1/1/2018		\$46.26	\$33.36	\$79.62
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2020		\$34.17	\$17.64	\$51.81
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2021		\$34.78	\$18.13	\$52.91
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2019		\$33.63	\$17.18	\$50.81
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2017		\$32.77	\$16.34	\$49.11
Bricklayers, Stone Masons, Pointers, Caulkers, Cleaners	5/1/2018		\$33.16	\$16.75	\$49.91
Carpenters	6/1/2017		\$27.93	\$14.79	\$42.72
Cement Masons	7/1/2018		\$27.74	\$17.10	\$44.84
Cement Masons	7/1/2019		\$28.49	\$17.45	\$45.94
Cement Masons	7/10/2017		\$26.96	\$16.73	\$43.69
Drywall Finisher	6/1/2017		\$27.80	\$19.14	\$46.94
Drywall Finisher	6/1/2018		\$28.10	\$19.99	\$48.09
Electricians & Telecommunications Installation Technician	12/23/2017		\$39.76	\$26.44	\$66.20
Electricians & Telecommunications Installation Technician	12/22/2019		\$44.46	\$26.44	\$70.90
Electricians & Telecommunications Installation Technician	12/22/2018		\$41.74	\$26.44	\$68.18
Elevator Constructor	1/1/2018		\$45.35	\$33.00	\$78.35
Elevator Tender (Use Elevator Apprentice or Constructor)	1/1/2007		\$0.00	\$0.00	\$0.00
Glazier	9/1/2017		\$22.50	\$18.85	\$41.35
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2017		\$28.02	\$28.36	\$56.38
Laborers (Class 01 - See notes)	1/1/2017		\$18.47	\$15.49	\$33.96
Laborers (Class 01 - See notes)	1/1/2018		\$18.47	\$16.49	\$34.96
Laborers (Class 01 - See notes)	1/1/2018		\$20.37	\$14.59	\$34.96
Laborers (Class 02 - See notes)	1/1/2018		\$20.52	\$14.59	\$35.11
Laborers (Class 02 - See notes)	1/1/2017		\$18.62	\$15.49	\$34.11
Laborers (Class 02 - See notes)	1/1/2018		\$18.62	\$16.49	\$35.11
Laborers (Class 03 - See notes)	1/1/2018		\$18.72	\$16.49	\$35.21
Laborers (Class 03 - See notes)	1/1/2017		\$18.72	\$15.49	\$34.21
Laborers (Class 03 - See notes)	1/1/2018		\$20.62	\$14.59	\$35.21
Laborers (Class 04 - See notes)	1/1/2018		\$19.37	\$14.59	\$33.96
Laborers (Class 04 - See notes)	1/1/2017		\$17.47	\$15.49	\$32.96
Laborers (Class 04 - See notes)	1/1/2018		\$17.47	\$16.49	\$33.96
Landscape Laborer	1/1/2018		\$20.59	\$15.31	\$35.90
Landscape Laborer	1/1/2017		\$20.59	\$14.36	\$34.95

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

<b>Project: 18-01489 - Building</b>	<b>Effective Date</b>	<b>Expiration Date</b>	<b>Hourly Rate</b>	<b>Fringe Benefits</b>	<b>Total</b>
Landscape Laborer (Skilled)	1/1/2017		\$21.01	\$14.36	\$35.37
Landscape Laborer (Skilled)	1/1/2018		\$21.01	\$15.31	\$36.32
Landscape Laborer (Tractor Operator)	1/1/2018		\$21.31	\$15.31	\$36.62
Landscape Laborer (Tractor Operator)	1/1/2017		\$21.31	\$14.36	\$35.67
Marble Mason	5/1/2019		\$30.46	\$16.43	\$46.89
Marble Mason	5/1/2021		\$31.55	\$17.34	\$48.89
Marble Mason	5/1/2018		\$29.88	\$16.01	\$45.89
Marble Mason	5/1/2020		\$31.02	\$16.87	\$47.89
Marble Mason	5/1/2017		\$29.27	\$15.62	\$44.89
Millwright	6/1/2017		\$39.83	\$18.57	\$58.40
Operators (Class 01 - see notes)	7/1/2021		\$32.47	\$20.32	\$52.79
Operators (Class 01 - see notes)	7/1/2020		\$31.87	\$19.57	\$51.44
Operators (Class 01 - see notes)	7/1/2019		\$31.27	\$18.82	\$50.09
Operators (Class 01 - see notes)	7/1/2018		\$30.72	\$18.12	\$48.84
Operators (Class 01 - see notes)	7/1/2017		\$30.17	\$17.42	\$47.59
Operators (Class 02 -see notes)	7/1/2019		\$27.05	\$18.82	\$45.87
Operators (Class 02 -see notes)	7/1/2018		\$26.75	\$18.12	\$44.87
Operators (Class 02 -see notes)	7/1/2020		\$27.45	\$19.57	\$47.02
Operators (Class 02 -see notes)	7/1/2017		\$26.45	\$17.42	\$43.87
Operators (Class 02 -see notes)	7/1/2021		\$27.85	\$20.32	\$48.17
Operators (Class 03 - See notes)	7/1/2020		\$26.00	\$19.57	\$45.57
Operators (Class 03 - See notes)	7/1/2017		\$25.30	\$17.42	\$42.72
Operators (Class 03 - See notes)	7/1/2018		\$25.50	\$18.12	\$43.62
Operators (Class 03 - See notes)	7/1/2019		\$25.70	\$18.82	\$44.52
Operators (Class 03 - See notes)	7/1/2021		\$26.30	\$20.32	\$46.62
Operators (Class 04 - Instrument Person (Surveying & Layout))	7/1/2016		\$22.65	\$16.77	\$39.42
Operators (Class 04 - Rodman/Chainman (Surveying and Layout))	7/1/2016		\$22.20	\$16.77	\$38.97
Painters Class 6 (see notes)	6/1/2019		\$28.50	\$20.06	\$48.56
Painters Class 6 (see notes)	6/1/2017		\$27.50	\$18.66	\$46.16
Painters Class 6 (see notes)	6/1/2018		\$28.00	\$19.36	\$47.36
Pile Driver Divers (Building, Heavy, Highway)	1/1/2017		\$49.13	\$17.95	\$67.08
Pile Driver Divers (Building, Heavy, Highway)	1/1/2018		\$50.33	\$18.55	\$68.88
Pile Driver Divers (Building, Heavy, Highway)	1/1/2019		\$51.45	\$19.30	\$70.75
Piledrivers	1/1/2018		\$33.55	\$18.55	\$52.10
Piledrivers	1/1/2017		\$32.75	\$17.95	\$50.70
Piledrivers	1/1/2019		\$34.30	\$19.30	\$53.60
Plasterers	6/1/2017		\$27.30	\$9.66	\$36.96
Plasterers	6/1/2017		\$27.30	\$9.66	\$36.96
Plumber/Pipefitter	5/1/2017		\$35.82	\$24.51	\$60.33
Roofers (Composition)	5/1/2017		\$36.15	\$30.22	\$66.37
Roofers (Shingle)	5/1/2016		\$25.70	\$19.17	\$44.87
Roofers (Slate & Tile)	5/1/2016		\$28.70	\$19.17	\$47.87
Sheet Metal Workers	6/1/2017		\$33.98	\$35.40	\$69.38

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

<b>Project: 18-01489 - Building</b>	<b>Effective Date</b>	<b>Expiration Date</b>	<b>Hourly Rate</b>	<b>Fringe Benefits</b>	<b>Total</b>
Sheet Metal Workers	6/1/2016		\$33.60	\$33.43	\$67.03
Sign Makers and Hangars	5/21/2010		\$24.33	\$16.37	\$40.70
Sprinklerfitters	4/1/2018		\$38.80	\$22.74	\$61.54
Sprinklerfitters	4/1/2017		\$37.40	\$21.74	\$59.14
Terrazzo Finisher	5/1/2018		\$32.35	\$15.91	\$48.26
Terrazzo Finisher	5/1/2017		\$31.64	\$15.62	\$47.26
Terrazzo Finisher	5/1/2019		\$33.04	\$16.22	\$49.26
Terrazzo Setter	5/1/2019		\$31.81	\$19.67	\$51.48
Terrazzo Setter	5/1/2018		\$31.23	\$19.25	\$50.48
Terrazzo Setter	5/1/2017		\$30.63	\$18.85	\$49.48
Tile & Marble Finisher	5/1/2019		\$28.29	\$14.46	\$42.75
Tile & Marble Finisher	5/1/2020		\$28.96	\$14.79	\$43.75
Tile & Marble Finisher	5/1/2021		\$29.61	\$15.14	\$44.75
Tile & Marble Finisher	5/1/2017		\$26.89	\$13.86	\$40.75
Tile & Marble Finisher	5/1/2018		\$27.60	\$14.15	\$41.75
Tile Setter	5/1/2018		\$29.88	\$16.01	\$45.89
Tile Setter	5/1/2017		\$29.27	\$15.62	\$44.89
Tile Setter	5/1/2021		\$31.55	\$17.34	\$48.89
Tile Setter	5/1/2019		\$30.46	\$16.43	\$46.89
Tile Setter	5/1/2020		\$31.02	\$16.87	\$47.89
Truckdriver class 1(see notes)	1/1/2016		\$27.62	\$16.60	\$44.22
Truckdriver class 2 (see notes)	1/1/2016		\$27.75	\$16.69	\$44.44
Truckdriver class 3 (see notes)	1/1/2016		\$28.23	\$16.98	\$45.21

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

<b>Project: 18-01489 - Heavy/Highway</b>	<b>Effective Date</b>	<b>Expiration Date</b>	<b>Hourly Rate</b>	<b>Fringe Benefits</b>	<b>Total</b>
Carpenter Welder	1/1/2018		\$33.87	\$17.77	\$51.64
Carpenter Welder	1/1/2019		\$34.72	\$18.42	\$53.14
Carpenter Welder	1/1/2017		\$33.10	\$17.14	\$50.24
Carpenters	1/1/2017		\$32.15	\$17.14	\$49.29
Carpenters	1/1/2019		\$33.77	\$18.42	\$52.19
Carpenters	1/1/2018		\$32.92	\$17.77	\$50.69
Cement Finishers	1/1/2019		\$31.94	\$20.50	\$52.44
Cement Finishers	1/1/2017		\$30.14	\$19.40	\$49.54
Cement Finishers	1/1/2018		\$31.04	\$19.90	\$50.94
Electric Lineman	5/27/2019		\$47.38	\$26.30	\$73.68
Electric Lineman	5/29/2017		\$45.24	\$24.23	\$69.47
Electric Lineman	5/28/2018		\$46.29	\$25.26	\$71.55
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2017		\$28.02	\$28.36	\$56.38
Iron Workers (Bridge, Structural Steel, Ornamental, Precast, Reinforcing)	6/1/2016		\$27.81	\$27.25	\$55.06
Laborers (Class 01 - See notes)	1/1/2017		\$24.75	\$20.95	\$45.70
Laborers (Class 01 - See notes)	1/1/2019		\$24.75	\$23.85	\$48.60
Laborers (Class 01 - See notes)	1/1/2018		\$24.75	\$22.35	\$47.10
Laborers (Class 02 - See notes)	1/1/2017		\$24.91	\$20.95	\$45.86
Laborers (Class 02 - See notes)	1/1/2019		\$24.91	\$23.85	\$48.76
Laborers (Class 02 - See notes)	1/1/2018		\$24.91	\$22.35	\$47.26
Laborers (Class 03 - See notes)	1/1/2019		\$25.40	\$23.85	\$49.25
Laborers (Class 03 - See notes)	1/1/2018		\$25.40	\$22.35	\$47.75
Laborers (Class 03 - See notes)	1/1/2017		\$25.40	\$20.95	\$46.35
Laborers (Class 04 - See notes)	1/1/2017		\$25.85	\$20.95	\$46.80
Laborers (Class 04 - See notes)	1/1/2019		\$25.85	\$23.85	\$49.70
Laborers (Class 04 - See notes)	1/1/2018		\$25.85	\$22.35	\$48.20
Laborers (Class 05 - See notes)	1/1/2019		\$26.26	\$23.85	\$50.11
Laborers (Class 05 - See notes)	1/1/2017		\$26.26	\$20.95	\$47.21
Laborers (Class 05 - See notes)	1/1/2018		\$26.26	\$22.35	\$48.61
Laborers (Class 06 - See notes)	1/1/2019		\$23.10	\$23.85	\$46.95
Laborers (Class 06 - See notes)	1/1/2018		\$23.10	\$22.35	\$45.45
Laborers (Class 06 - See notes)	1/1/2017		\$23.10	\$20.95	\$44.05
Laborers (Class 07 - See notes)	1/1/2019		\$25.75	\$23.85	\$49.60
Laborers (Class 07 - See notes)	1/1/2018		\$25.75	\$22.35	\$48.10
Laborers (Class 07 - See notes)	1/1/2017		\$25.75	\$20.95	\$46.70
Laborers (Class 08 - See notes)	1/1/2019		\$27.25	\$23.85	\$51.10
Laborers (Class 08 - See notes)	1/1/2017		\$27.25	\$20.95	\$48.20
Laborers (Class 08 - See notes)	1/1/2018		\$27.25	\$22.35	\$49.60
Operators (Class 01 - see notes)	1/1/2017		\$30.69	\$19.98	\$50.67
Operators (Class 01 - see notes)	1/1/2019		\$31.89	\$21.68	\$53.57
Operators (Class 01 - see notes)	1/1/2018		\$31.29	\$20.78	\$52.07
Operators (Class 02 -see notes)	1/1/2017		\$30.43	\$19.98	\$50.41
Operators (Class 02 -see notes)	1/1/2018		\$31.03	\$20.78	\$51.81

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

<b>Project: 18-01489 - Heavy/Highway</b>	<b>Effective Date</b>	<b>Expiration Date</b>	<b>Hourly Rate</b>	<b>Fringe Benefits</b>	<b>Total</b>
Operators (Class 02 -see notes)	1/1/2019		\$31.63	\$21.68	\$53.31
Operators (Class 03 - See notes)	1/1/2017		\$26.78	\$19.98	\$46.76
Operators (Class 03 - See notes)	1/1/2018		\$27.38	\$20.78	\$48.16
Operators (Class 03 - See notes)	1/1/2019		\$27.98	\$21.68	\$49.66
Operators (Class 04 - See notes)	1/1/2017		\$26.32	\$19.98	\$46.30
Operators (Class 04 - See notes)	1/1/2019		\$27.52	\$21.68	\$49.20
Operators (Class 04 - See notes)	1/1/2018		\$26.92	\$20.78	\$47.70
Operators (Class 05 - See notes)	1/1/2019		\$27.27	\$21.68	\$48.95
Operators (Class 05 - See notes)	1/1/2018		\$26.67	\$20.78	\$47.45
Operators (Class 05 - See notes)	1/1/2017		\$26.07	\$19.98	\$46.05
Painters Class 1 (see notes)	6/1/2017		\$31.98	\$18.43	\$50.41
Painters Class 1 (see notes)	6/1/2017		\$31.85	\$18.66	\$50.51
Painters Class 1 (see notes)	6/1/2018		\$32.50	\$19.36	\$51.86
Painters Class 1 (see notes)	6/1/2019		\$33.15	\$20.06	\$53.21
Painters Class 1 (see notes)	6/1/2016		\$31.58	\$17.58	\$49.16
Painters Class 2 (see notes)	6/1/2018		\$34.60	\$19.36	\$53.96
Painters Class 2 (see notes)	6/1/2017		\$33.95	\$18.66	\$52.61
Painters Class 2 (see notes)	6/1/2017		\$34.08	\$18.43	\$52.51
Painters Class 2 (see notes)	6/1/2019		\$35.25	\$20.06	\$55.31
Painters Class 2 (see notes)	6/1/2016		\$31.58	\$17.58	\$49.16
Painters Class 3 (see notes)	6/1/2019		\$35.25	\$20.06	\$55.31
Painters Class 3 (see notes)	6/1/2018		\$34.60	\$19.36	\$53.96
Painters Class 3 (see notes)	6/1/2016		\$33.68	\$17.58	\$51.26
Painters Class 3 (see notes)	6/1/2017		\$27.58	\$18.48	\$46.06
Painters Class 3 (see notes)	6/1/2017		\$33.95	\$18.66	\$52.61
Painters Class 4 (see notes)	6/1/2018		\$27.68	\$19.36	\$47.04
Painters Class 4 (see notes)	6/1/2017		\$27.16	\$18.66	\$45.82
Painters Class 4 (see notes)	6/1/2017		\$27.27	\$18.43	\$45.70
Painters Class 4 (see notes)	6/1/2016		\$26.95	\$17.58	\$44.53
Painters Class 4 (see notes)	6/1/2019		\$28.20	\$20.06	\$48.26
Painters Class 5 (see notes)	6/1/2019		\$22.91	\$20.06	\$42.97
Painters Class 5 (see notes)	6/1/2016		\$21.90	\$17.58	\$39.48
Painters Class 5 (see notes)	6/1/2018		\$22.49	\$19.36	\$41.85
Painters Class 5 (see notes)	6/1/2017		\$22.07	\$18.66	\$40.73
Painters Class 5 (see notes)	6/1/2017		\$22.16	\$18.43	\$40.59
Pile Driver Divers (Building, Heavy, Highway)	1/1/2018		\$50.33	\$18.55	\$68.88
Pile Driver Divers (Building, Heavy, Highway)	1/1/2019		\$51.45	\$19.30	\$70.75
Pile Driver Divers (Building, Heavy, Highway)	1/1/2017		\$49.13	\$17.95	\$67.08
Piledrivers	1/1/2018		\$33.55	\$18.55	\$52.10
Piledrivers	1/1/2017		\$32.75	\$17.95	\$50.70
Piledrivers	1/1/2019		\$34.30	\$19.30	\$53.60
Steamfitters (Heavy and Highway - Gas Distribution)	5/1/2017		\$40.98	\$32.53	\$73.51
Truckdriver class 1(see notes)	1/1/2019		\$28.99	\$19.43	\$48.42
Truckdriver class 1(see notes)	1/1/2017		\$28.10	\$17.42	\$45.52

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

<b>Project: 18-01489 - Heavy/Highway</b>	<b>Effective Date</b>	<b>Expiration Date</b>	<b>Hourly Rate</b>	<b>Fringe Benefits</b>	<b>Total</b>
Truckdriver class 1(see notes)	1/1/2018		\$28.52	\$18.40	\$46.92
Truckdriver class 2 (see notes)	1/1/2019		\$29.13	\$19.51	\$48.64
Truckdriver class 2 (see notes)	1/1/2017		\$28.24	\$17.50	\$45.74
Truckdriver class 2 (see notes)	1/1/2018		\$28.66	\$18.48	\$47.14
Truckdriver class 3 (see notes)	1/1/2019		\$29.59	\$19.82	\$49.41
Truckdriver class 3 (see notes)	1/1/2018		\$29.13	\$18.78	\$47.91
Truckdriver class 3 (see notes)	1/1/2017		\$28.71	\$17.80	\$46.51

**SECTION BP - BID PROPOSAL – ELECTRICAL CONSTRUCTION PRIME CONTRACT**

In compliance with the Notice to Bidders and the Contract Documents, we, the undersigned, do hereby agree to provide all labor, materials, services, tools, and equipment and to perform all of the required work to complete the

FOR:    Emergency Power Revisions  
     Patton Township Building  
     100 Patton Plaza  
     State College, Centre County, PA

All in strict accordance with the Specifications, Schedules, Drawings, and Conditions for the consideration of the following amounts, including State and applicable taxes, for the sum of:

\_\_\_\_\_ Dollars (\$) )  
 Amount

We, the undersigned, agree, if awarded the Contract, to execute an agreement for the above stated work and compensation on the Standard Form of Agreement.

We, the undersigned, agree, if awarded the Contract, to begin work at the site within ten days after “Notice to Proceed” and to complete the work in a thoroughly good and workmanlike manner under the direction of the Architect and to the satisfaction of the Owner, within 90 calendar days.

The Contract is to be entered into by the Owner upon the understanding that the Contractor, prior to submission of his Bid, has acquainted himself with the requirements of the Plans and Specifications, conditions of the site, all applicable governmental codes, all other requirements of the Contract, and that he obtained all information necessary for completion of the work within the time specified. The Contractor shall not, at any time, set up any claims whatever based on insufficient data or incorrectly assumed conditions, nor shall he claim any misunderstanding in regard to the nature, conditions, or character of the work to be done under the Contractor; and the Contractor shall assume all risks resulting from any changes in conditions which may occur during the progress of this work.

We, the undersigned, acknowledge receipt of and have considered in our Proposal the following Addenda:

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

We, the undersigned, agree that this Proposal as submitted shall hold good through the ninetieth day following the bid date.

Submitted by: \_\_\_\_\_

Attest: \_\_\_\_\_

Address: \_\_\_\_\_  
 \_\_\_\_\_

Surety: \_\_\_\_\_  
 Date: \_\_\_\_\_

Signed by: \_\_\_\_\_  
 Authorized Signature

**OWNER'S INSTRUCTIONS FOR INSURANCE**

I. **CONTRACTOR'S INSURANCE**

- A. **Construction Insurance Requirements:**
- |                       |  |
|-----------------------|--|
| 1(a) Public Liability | \$1,000,000/\$2,000,000  |
| (b) Property Damage   | \$100,000/\$500,000  |
| 2(a) Vehicular        | \$500,000/\$1,000,000  |
| (b) Property Damage   | \$500,000  |
| 3(a) Fire Insurance   | Complete coverage by Contractor in the names of the Owner and Contractor |
- B. **Workmen's Compensation:** Statutory

II. **OWNER'S INSURANCE**

- A. The Owner shall purchase and maintain property insurance in the amount of the initial Contract Sums as well as subsequent modifications for the entire work at the site on a replacement cost basis without voluntary deductibles. The Owner shall carry such insurance until final payment is made.



# Standard Form of Agreement Between Owner and Contractor

where the basis of payment is a  
*STIPULATED SUM*

## AGREEMENT

Made as of the \_\_\_\_\_ day of \_\_\_\_\_ in the year of Two Thousand and Eighteen.

**BETWEEN** the Owner: Patton Township  
100 Patton Plaza  
State College, PA 16803

and the Contractor:

The Architect: Fernsler Hutchinson Architecture, LLC  
521 East Beaver Avenue  
State College, PA 16801

The Owner and Contractor agree as set forth below.

## ARTICLE 1 THE CONTRACT DOCUMENTS

**1.1** The Contract Documents consist of this Agreement, Conditions of the Contract (General, Supplementary, and other Conditions), Drawings, Specifications, Addenda issued prior to execution of this Agreement, other documents listed in this Agreement, and Modifications issued after execution of this Agreement. These form the Contract, and are as fully a part of the Contract as if attached to this Agreement or repeated herein. The Contract represents the entire and integrated agreement between the parties hereto and supersedes prior negotiations representations or agreements, either written or oral. An enumeration of the Contract Documents, other than Modifications, appears in Article 9.

## ARTICLE 2 THE WORK OF THIS CONTRACT

**2.1** The Contractor shall execute the entire Work described in the Contract Documents, except to the extent specifically indicated in the Contract Documents to be the responsibility of others.

## ARTICLE 3 DATE OF COMMENCEMENT AND SUBSTANTIAL COMPLETION

**3.1** The date of commencement is the date from which the Contract Time of Paragraph 3.2 is measured and shall be the date of this Agreement, as first written above, unless a different date is stated below or provision is made for the date to be fixed in a notice to proceed issued by the Owner.

Unless the date of commencement is established by a notice to proceed issued by the Owner, the Contractor shall notify the Owner in writing not less than five days before commencing the Work to permit the timely filing of mortgages, mechanic's liens, and other security interests.

**3.2** The Contractor shall achieve Substantial Completion of the entire Work not later than \_\_\_\_\_.

**ARTICLE 4**  
**CONTRACT SUM**

**4.1** The Owner shall pay the Contractor in current funds for the Contractor's performance of the Contract the Contract Sum of (\$ \_\_\_\_\_), subject to additions and deductions as provided in the Contract Documents

**4.2** The Contract Sum is based upon the following adjustment and is hereby accepted by the Owner.

**ARTICLE 5**  
**PROGRESS PAYMENTS**

**5.1** Based upon Applications for Payment submitted to the Architect by the Contractor and Certificates for Payment issued by the Architect, the Owner shall make progress payments on account of the Contract Sum to the Contractor as provided below and elsewhere in the Contract Documents.

**5.2** The period covered by each Application for Payment shall be one calendar month.

**5.3** Provided an Application for Payment is received by the Architect not later than the fifth of the month and reviewed by the Board the third Thursday of each month and payment released after Board meeting in approximately three days.

**5.4** Each Application for Payment shall be based upon the Schedule of Values submitted by the Contractor in accordance with the Contract Documents. The Schedule of Values shall allocate the entire Contract Sum among the various portions of the Work and be prepared in such form and supported by such data to substantiate its accuracy as the Architect may require. This Schedule, unless objected to by the Architect, shall be used as a basis for reviewing the Contractor's Applications for Payment.

**5.5** Applications for Payment shall indicate the percentage of completion of each portion of the Work as of the end of the period covered by the Application for Payment.

**5.6** Subject to the provisions of the Contract Documents, the amount of each progress payment shall be computed as follows:

**5.6.1** Take that portion of the Contract Sum properly allocable to completed Work as determined by multiplying the percentage completion of each portion of the Work by the share of the total Contract Sum allocated to that portion of the Work in the Schedule of Values, less retainage of ten percent (10%). Pending final determination of cost to the Owner of changes in the Work, amounts not in dispute may be included as provided in Subparagraph 7.3.7 of the General Conditions even though the Contract Sum has not yet been adjusted by Change Order;

**5.6.2** Add that portion of the Contract Sum properly allocable to materials and equipment delivered and suitably stored at the site for subsequent incorporation in the completed construction (or, if approved in advance by the Owner, suitably stored off the site at a location agreed upon in writing), less retainage of ten percent (10%);

**5.6.3** Subtract the aggregate of previous payments made by the Owner; and

**5.6.4** Subtract amounts, if any, for which the Architect has withheld or nullified a Certificate for Payment as provided in Paragraph 9.5 of the General Conditions.

**5.7** The progress payment amount determined in accordance with Paragraph 5.6 shall be further modified under the following circumstances:

**5.7.1** Add, upon Substantial Completion of the Work, a sum sufficient to increase the total payments to one hundred percent (100%) of the Contract Sum, less such amounts as the Architect shall determine for incomplete Work and unsettled claims; and

**5.7.2** Add, if final completion of the Work is thereafter materially delayed through no fault of the Contractor, any additional amounts payable in accordance with Subparagraph 9.10.3 of the General Conditions.

**5.8** Reduction or limitation of retainage, if any, shall be as follows: After 50% complete retainage to be reduced to 5%.

## **ARTICLE 6** **FINAL PAYMENT**

**6.1** Final payment, constituting the entire unpaid balance of the Contract Sum, shall be made by the Owner to the Contractor when (1) the Contract has been fully performed by the Contractor except for the Contractor's responsibility to correct nonconforming Work as provided in Subparagraph 12.2.2, of the General Conditions and to satisfy other requirements, if any, which necessarily survive final payment; and (2) a final Certificate for Payment has been issued by the Architect, such final payment shall be made by the Owner not more than 30 days after the issuance of the Architect's final Certificate for Payment.

## **ARTICLE 7** **MISCELLANEOUS PROVISIONS**

**7.1** Where reference is made in this Agreement to a provision of the General Conditions or another Contract Document, the reference refers to that provision as amended or supplemented by other provisions of the Contract Documents.

**7.2** Payments due and unpaid under the Contract shall bear interest from the date payment is due at the rate stated below, or in the absence thereof, at the legal rate prevailing from time to time at the place where the Project is located.

**7.3** Other provisions:

**7.3.1** Sections 4.3 through 4.5 of the General Conditions shall be replaced by the following:

**ARTICLE 8**  
**TERMINATION OR SUSPENSION**

**8.1** The Contract may be terminated by the Owner or the Contractor as provided in Article 14 of the General Conditions.

**8.2** The Work may be suspended by the Owner as provided in Article 14 of the General Conditions.

**ARTICLE 9**  
**ENUMERATION OF CONTRACT DOCUMENTS**

**9.1** The Contract Documents, except for Modifications issued after execution of this Agreement, are enumerated as follows:

**9.1.1** The Agreement is this executed Standard Form of Agreement Between Owner and Contractor, AIA Document A101, 1987 Edition.

**9.1.2** The General Conditions are the General Conditions of the Contract for Construction, AIA Document A201, 1987 Edition.

**9.1.3** The Supplementary and other Conditions of the Contract are those contained in the Project Manual dated August 25, 2017.

**9.1.4** The Specifications are those contained in the Project Manual dated as in Subparagraph 9.1.3, and are as follows:

**9.1.5** The Drawings are as follows:

**9.1.6** The Addenda are as follows:

<u>Number</u>	<u>Date</u>	<u>Page</u>
---------------	-------------	-------------

Portions of Addenda relating to bidding requirements are not part of the Contract Documents unless the bidding requirements are also enumerated in this Article 9.

This agreement is entered into as of the day and year first written above and is executed in at least three original copies of which one is to be delivered to the Contractor, one to the Architect for use in the administration of the Contract, and the remainder to the Owner.

OWNER

CONTRACTOR

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed name and title)

\_\_\_\_\_  
(Printed name and title)

TO (OWNER): PROJECT: APPLICATION NO: Distribution to:  
 OWNER  
 ARCHITECT  
 CONTRACTOR

FROM (CONTRACTOR): VIA (ARCHITECT): PERIOD TO:  
 ARCHITECT'S PROJECT NO: ARCHITECT'S CONTRACTOR  
 CONTRACT FOR: CONTRACT DATE:

Application is made for Payment, as shown below, in connection with the Contract. Continuation Sheet, AIA Document G703, is attached.

1. ORIGINAL CONTRACT SUM ..... \$
2. Net change by Change Orders ..... \$
3. CONTRACT SUM TO DATE (Line 1 ± 2) ..... \$
4. TOTAL COMPLETED & STORED TO DATE ..... \$  
 (Column G on G703)
5. RETAINAGE:  
 a. \_\_\_ % of Completed Work \$ \_\_\_\_\_  
 (Column D + E on G703)  
 b. \_\_\_ % of Stored Material \$ \_\_\_\_\_  
 (Column F on G703)  
 Total Retainage (Line 5a + 5b or Total in Column I of G703) ..... \$
6. TOTAL EARNED LESS RETAINAGE ..... \$  
 (Line 4 less Line 5 Total)
7. LESS PREVIOUS CERTIFICATES FOR PAYMENT (Line 6 from prior Certificate) ..... \$
8. CURRENT PAYMENT DUE ..... \$
9. BALANCE TO FINISH, PLUS RETAINAGE ..... \$  
 (Line 3 less Line 6)

State of: \_\_\_\_\_ County of: \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
 Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_  
 Notary Public:  
 My Commission expires: \_\_\_\_\_

AMOUNT CERTIFIED ..... \$  
 (Attach explanation if amount certified differs from the amount applied for.)  
 ARCHITECT:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
 This Certificate is not negotiable. The AMOUNT CERTIFIED is payable only to the Contractor named herein. Issuance, payment and acceptance of payment are without prejudice to any rights of the Owner or Contractor under this Contract.

TO (OWNER): PROJECT: APPLICATION NO: Distribution to:  
 OWNER  
 ARCHITECT  
 CONTRACTOR

FROM (CONTRACTOR): VIA (ARCHITECT): PERIOD TO:  
 ARCHITECT'S PROJECT NO: ARCHITECT'S CONTRACTOR  
 CONTRACT FOR: CONTRACT DATE:

## CONTRACTOR'S APPLICATION FOR PAYMENT

CHANGE ORDER SUMMARY		ADDITIONS	DEDUCTIONS
Change Orders approved in previous months by Owner			
TOTAL			
Approved this Month			
Number	Date Approved		
TOTALS			
Net change by Change Orders			

The undersigned Contractor certifies that to the best of the Contractor's knowledge, information and belief the Work covered by this Application for Payment has been completed in accordance with the Contract Documents, that all amounts have been paid by the Contractor for Work for which previous Certificates for Payment were issued and payments received from the Owner, and that current payment shown herein is now due.

CONTRACTOR: \_\_\_\_\_ Date: \_\_\_\_\_

## ARCHITECT'S CERTIFICATE FOR PAYMENT

In accordance with the Contract Documents, based on on-site observations and the data comprising the above application, the Architect certifies to the Owner that to the best of the Architect's knowledge, information and belief the Work has progressed as indicated, the quality of the Work is in accordance with the Contract Documents, and the Contractor is entitled to payment of the AMOUNT CERTIFIED.

**CONTINUATION SHEET**

AIA DOCUMENT G703

AIA Document G702, APPLICATION AND CERTIFICATE FOR PAYMENT, containing Contractor's signed Certification is attached.

In tabulations below, amounts are stated to the nearest dollar.

Use Column I on Contracts where variable retainage for line items may apply.

APPLICATION NUMBER:  
APPLICATION DATE:  
PERIOD FROM:  
TO:

ARCHITECT'S PROJECT NO:

A ITEM No.	B DESCRIPTION OF WORK	C SCHEDULED VALUE	D Previous Applications	E WORK COMPLETED		F Stored Materials (not in D or E)	G TOTAL COMPLETED AND STORED TO DATE (D+E+F)	H BALANCE TO FINISH (C-G)	I RETAINAGE
				This Application Work in Place	% (G÷C)				

# CHANGE ORDER

AIA DOCUMENT G701

- OWNER
- ARCHITECT
- CONTRACTOR
- FIELD
- OTHER

PROJECT:  
(name, address)

CHANGE ORDER NUMBER:

DATE:

TO CONTRACTOR:  
(name, address)

ARCHITECT'S PROJECT NO:

CONTRACT DATE:

CONTRACT FOR:

The Contract is changed as follows:

### Not valid until signed by the Owner, Architect and Contractor.

The original (Contract Sum) (Guaranteed Maximum Price) was ..... \$  
 Net change by previously authorized Change Orders ..... \$  
 The (Contract Sum) (Guaranteed Maximum Price) prior to this Change Order was ..... \$  
 The (Contract Sum) (Guaranteed Maximum Price) will be (increased) (decreased)  
 (unchanged) by this Change Order in the amount of ..... \$  
 The new (Contract Sum) (Guaranteed Maximum Price) including this Change Order will be .. \$

The Contract Time will be (increased) (decreased) (unchanged) by ( ) days.  
 The date of Substantial Completion as of the date of this Change Order therefore is

NOTE: This summary does not reflect changes in the Contract Sum, Contract Time or Guaranteed Maximum Price which have been authorized by Construction Change Directive.

ARCHITECT	CONTRACTOR	OWNER
Address	Address	Address
BY _____	BY _____	BY _____
DATE _____	DATE _____	DATE _____

# CERTIFICATE OF SUBSTANTIAL COMPLETION

AIA DOCUMENT G704

Distribution to:  
OWNER   
ARCHITECT   
CONTRACTOR   
FIELD   
OTHER

PROJECT:  
name, address)

ARCHITECT:

ARCHITECT'S PROJECT NUMBER:

TO (Owner):

┌

CONTRACTOR:

└

CONTRACT FOR:

└

DATE OF ISSUANCE:

┌

CONTRACT DATE:

PROJECT OR DESIGNATED PORTION SHALL INCLUDE:

The Work performed under this Contract has been reviewed and found to be substantially complete. The Date of Substantial Completion of the Project or portion thereof designated above is hereby established as

which is also the date of commencement of applicable warranties required by the Contract Documents, except as stated below.

## DEFINITION OF DATE OF SUBSTANTIAL COMPLETION

The Date of Substantial Completion of the Work or designated portion thereof is the Date certified by the Architect when construction is sufficiently complete, in accordance with the Contract Documents, so the Owner can occupy or utilize the Work or designated portion thereof for the use for which it is intended, as expressed in the Contract Documents.

A list of items to be completed or corrected, prepared by the Contractor and verified and amended by the Architect, is attached hereto. The failure to include any items on such list does not alter the responsibility of the Contractor to complete all Work in accordance with the Contract Documents. The date of commencement of warranties for items on the attached list will be the date of final payment unless otherwise agreed to in writing.

\_\_\_\_\_  
ARCHITECT

\_\_\_\_\_  
BY

\_\_\_\_\_  
DATE

The Contractor will complete or correct the Work on the list of items attached hereto within \_\_\_\_\_ days from the above Date of Substantial Completion.

\_\_\_\_\_  
CONTRACTOR

\_\_\_\_\_  
BY

\_\_\_\_\_  
DATE

The Owner accepts the Work or designated portion thereof as substantially complete and will assume full possession thereof at \_\_\_\_\_ (time) on \_\_\_\_\_ (date).

\_\_\_\_\_  
OWNER

\_\_\_\_\_  
BY

\_\_\_\_\_  
DATE

The responsibilities of the Owner and the Contractor for security, maintenance, heat, utilities, damage to the Work and insurance shall be as follows:

(Note—Owner's and Contractor's legal and insurance counsel should determine and review insurance requirements and coverage; Contractor shall secure consent of surety company, if any.)



## SUPPLEMENTAL GENERAL CONDITIONS

### 1. INSURANCE

Applicable portions of ARTICLE NO. 11 of the AIA General Conditions shall be amended as follows:

- A. Contractor shall take out and maintain, during the life of the Contract, such Public Liability and Property Damage Insurance as shall protect the Owner, the Architect, the Contractor, and any subcontractors performing work covered by this Contract from claims for damage or personal injury, including wrongful death, as well as from claims for property damages, which may arise from operation under this Contract, whether such operations be by himself or by any subcontractors or anyone directly or indirectly employed on the Project.
- B. Amounts of such insurance shall, unless otherwise specified as a special term of the Contract, be as noted in Owner's Instructions for Bonds and Insurance.
- C. Workmen's Compensations- Contractor shall accept, insofar as the work covered by this Contract is concerned, the provisions of the Workmen's Compensation Act and shall insure his liability thereunder; and he shall save the Owner and Architect harmless from all claims for Workmen's Compensation which may be made by any of the employees of the Contractor or by any one of the employees of any subcontractor to whom the Contractor may have let the performance of any part of the work embraced by this Contract.
- D. Proof of Insurance- Contractor shall, when he executes the Contract, deliver to the Owner proper evidence of carriage of the required insurance, which shall consist of an original policy and six memorandum copies of insurance provided. Certificates will be acceptable proof of public liability, property damage, and Workmen's Compensation Insurance, Renewal Policy and six renewal endorsements shall be delivered by the Contractor to the Owner at least ten days before any expirations of original or subsequent policies during progress of the work and until final completion. All policies shall be issued by insurance companies authorized to conduct such business under the law of the Commonwealth of Pennsylvania and shall be acceptable to the Owner and his Solicitor.
- E. Contractor shall not commence work until all required insurance has been obtained, nor until insurance has been approved by Owner as to companies, amount, coverage and form; and the Contractor shall not permit any subcontractor to commence work on any subcontract until such insurance has been so obtained. Insurance shall be submitted at same time as signed contracts and in same number of copies.

### 2. "OR EQUAL" CLAUSE

- A. Whenever a material, article, or piece of equipment is identified on the plans or in the specifications by reference to manufacturer's or vendor's names, trade names, catalogue numbers, etc., it is intended merely to establish a minimum standard of quality; and any material, article, or equipment of other manufacturers and vendors which will perform adequately the duties imposed by the general design will be considered equally acceptable provided the material, article, or equipment so proposed is, in the opinion of the Architect, or equal substance, appearance, or function. It shall not be purchased or installed by the Contractor without the Architect's written approval.

If Contractors' bids are to be based upon the use of a material and/or manufacturer other than the one specified, prior approval must be requested from the Architect. Failure to request and obtain approvals during the bidding period will result in the Architect requiring materials to be supplied as specified. "Prior Approvals" will be issued by Bulletin during the bidding period.

### 3. REVIEW OF SHOP DRAWINGS AND CATALOGUE DATA

- A. Shop drawings and/or catalogue data shall be approved by the Contractor and submitted when so directed by the Architect for his review.
- B. Contractor shall submit to the Architect with a letter of transmittal not less than six (6) sets of shop drawings or catalogue information. Letter of transmittal shall list the number of the drawings or catalogue information sheets contained in the submission.
- C. Shop drawings and catalogue information sheets shall be checked by the Contractor for conforming with the requirements of the contract prints and specifications and he shall verify dimensions and shall stamp thereon his approval prior to submission of such shop drawings or catalogue information to the Architect. All drawings or catalogue information shall be identified with the Project number, Project name, and the name of the Contractor. Failure of the Contractor to note his approval on the shop drawings or catalogue information will be reason for the Architect to return such submission to the Contractor. If the shop drawings or catalogue information sheets show variations from the Contract requirements because of standard shop practice or other reason, the Contractor shall make specific mention of such variations in his letter of transmittal and not such variations on submittal in order that if accepted, suitable action may be taken for proper adjustment in the Contract; otherwise, the Contractor will not be relieved of the responsibility for executing the work in complete conformity with the Contractor even through the shop drawings or catalogue information have been reviewed by the Architect.
- D. Architect, upon receipt of shop drawings or catalogue information, will promptly check for general conformance with the design concept of the project and general conformance with the information given in the contract documents.
- E. Shop drawings or catalogue information, if not reviewed by Architect, will be returned to the Contractor with letter of instruction setting forth the basis for resubmission.
- F. Shop drawings or catalogue data, when reviewed by the Architect, will be returned to the Contractor with instructions setting forth the basis of rejection if not acceptable.
- G. Review of shop drawings or catalogue information will be general and shall not relieve the Contractor from the responsibility of proper fitting and construction of the work nor from furnishing materials and labor required for the fulfillment of the Contract. The review of shop drawings shall not be construed as approving departure from full size or large-scale prints as prepared by the Architect and furnished to the Contractor.
- H. It will be the responsibility of the Contractor to prepare and furnish to other contractors engaged on the project copies of approved shop drawings or catalogue information when requested by such other contractors for the proper installation of their work. Failure of the Contractor to furnish within ten (10) days of request will render him liable for any expense incurred in carrying out the provision of such other related contracts.

### 4. JOB CONFERENCES

- A. Job Conferences will be held bimonthly while construction is in progress and the Architect will advise all concerned of the schedule of these conferences.

- B. Unless directed otherwise by the Architect, the Contractor shall attend either personally or be represented at such meetings. Should the Contractor elect to be represented at such meetings, it shall be understood and agreed that the Owner and the Architect in dealing with the Contractor's representative do so with full assurance that such representative's actions and commitments may be accepted as though the Contractor, who signed and is bound by the contract, were himself present and personally made such agreements and commitments.
- C. It shall be the Contractor's responsibility to adequately prepare for each meeting so that all questions and/or problems can be discussed and resolved sufficiently in order for the Contractor to proceed until the next regularly scheduled job conference. The Architect will not be responsible for the Contractor's failure to do so and will not be available including by telephone except for regularly scheduled job conferences. The Contractor shall not claim delay as a result of his own failure to conduct the work properly
- D. Architect will prepare and distribute to all concerned a written report of the Job Conference prior to next regularly scheduled conference. This report will contain, but is not limited to, a complete listing of any and all clarifications of the Contract documents, agreements, or commitments made and any Contractor taking exception to the statements in these minutes, or any omissions, shall notify the Architect, in writing, within ten (10) days after receipt of the minutes, with a copy of the letter of exception to the Owner, listing in detail the exceptions; otherwise, the minutes will stand as written.

5. CODE COMPLIANCE

- A. Contractor shall familiarize himself and follow the International Building Code and ADA/ANSI, current editions.
- B. Contractor shall comply with all current codes and regulations as required.

6. PERMIT FEES

- A. Owner shall pay for the Building Permit.
- B. Contractor shall obtain approval from Centre Region Code as required for completion.

7. PREVAILING WAGE RATES

- A. Contractors shall submit all required certificates and affidavits regarding Prevailing Wage Rates.
- B. Contractors shall submit with each request for payment, the required payroll certifications forms, and affidavit. Failure to do so, will cause the Owner to withhold payment.

8. FAMILIARITY WITH PROPOSED WORK

- A. Contract is to be entered into by the Owner upon the understanding that the Contractor, prior to submission of his Bid, has acquainted himself with the requirements of the Plans and Specifications, all applicable governmental requirements, codes, and/or fees, all other requirements of contract, and that he obtained all information necessary for completion of the work within the time specified. The Contractor shall not, at any time, set up any claims whatever based on insufficient data or incorrectly assumed conditions, nor shall he claim any misunderstanding in regard to the nature, conditions, or character of the work to be done under the contract; and the Contractor shall assume all risks resulting from any changes in conditions which may occur during the progress of the work. Proposal amounts shall include all applicable governmental and/or utility company fees and costs. **THE BIDDER SHALL NOT SCALE ANY DRAWINGS.**

9. CLEAN UP

- A. Contractor shall be responsible for, at his expense, daily clean up at the end of each day when construction occurs.
- B. At the end of all construction the Contractor shall be responsible for complete restoration of all affected surfaces, removal of all deleterious and unused material, and providing housecleaning of the entire space within which construction has occurred.

10. ACCESS TO WORK SITE

- A. Contractor shall coordinate all construction times with Doug Erickson, Township Manager, and access requirements.

**DIVISION 01**  
**GENERAL REQUIREMENTS**

**DIVISION 01**

**GENERAL REQUIREMENTS**

**SECTION 1A – DEMOLITION AND WASTE DISPOSAL**

1. All removed material shall be recycled or deposited at the Centre County Solid Waste Authority approved construction landfill at the expense of the Contractor including all transportation, dumping fees, and miscellaneous expenses.
2. All disposal tickets shall be submitted to Centre Region Code with copies to the Owner and Architect.

ABBREVIATIONS

&	AND
°	DEGREES
∅	PHASE
(E)	EXISTING
(R)	RELOCATED
A	AMPS
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AFI	ARC FAULT CIRCUIT INTERRUPTOR
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CAPACITY
AL	ALUMINUM
BLDG	BUILDING
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CU	COPPER
DISC	DISCONNECT
DIST	DISTRIBUTION
DN	DOWN
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ELEC	ELECTRIC OR ELECTRICAL
E.O.	ELECTRONICALLY OPERATED
EMG	EMERGENCY
EXH	EXHAUST
F D	FIRE DAMPER
F/S D	FIRE/SMOKE DAMPER
FAAP	FIRE ALARM ANNUCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAEP	FIRE ALARM EXTENDER PANEL
FCU	FAN COIL UNIT
FLA	FULL LOAD AMPS
G	GROUND
GND	GROUND
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GEN	GENERATOR
HP	HORSEPOWER
KIT	KITCHEN
kW	KILO WATTS
kVA	KILO VOLT-AMPERES
LVD	LIGHT EMITTING DIODE
LTG	LIGHTING
LSI	LONG, SHORT AND INSTANTANEOUS TRIP CB
LSIG	LSI CB WITH GROUND FAULT PROTECTION
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MECH	MECHANICAL
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCp	MAXIMUM OVERCURRENT PROTECTION DEVICE
MTD	MOUTED
MTR	MOTOR
N	NEUTRAL
N/E	NORMAL/EMERGENCY
OE	OVERHEAD ELECTRIC
OE/T	OVERHEAD ELECTRIC & TELECOM.
OL	OVERLOAD
PB	PUSH-BUTTON
PC	PLUMBING CONTRACTOR
PH	PHASE
PL	PILOT LIGHT
PNL	PANEL
PV	PHOTOVOLTAIC
REC	RECEPTACLE
RM	ROOM
S D	SMOKE DAMPER
SD	SMOKE DETECTOR
UC	UNDERCABINET
UE	UNDERWRITERS LABORATORY
UL	UNDERWRITERS LABORATORY
UT	UNDERGROUND TELECOMMUNICATIONS
W	WIRE
WAP	WIRELESS ACCESS POINT
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL REQUIREMENTS

- A. GENERAL:
- THESE DRAWINGS ARE DIAGRAMMATIC IN NATURE AND DO NOT NECESSARILY SHOW ALL OFFSETS AND FITTINGS THAT WILL BE REQUIRED. COORDINATE CAREFULLY WITH EXISTING UTILITIES, EQUIPMENT AND STRUCTURE.
  - IT IS THE GENERAL INTENT OF THESE DRAWINGS AND SPECIFICATIONS THAT THE CONTRACTOR FURNISH AND INSTALL A COMPLETE AND WORKABLE ELECTRICAL SYSTEM IN COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND TO THE SATISFACTION OF THE ARCHITECT, ENGINEER AND OWNER.
  - CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL FIELD CONDITIONS PRIOR TO PLACING BID, PURCHASING EQUIPMENT OR MATERIALS AND COMMENCEMENT OF ANY WORK. NOTIFY ENGINEER OF ANY DISCREPANCIES FOR RESOLUTION.
  - REPORT ANY OBSERVED CODE VIOLATIONS OF EXISTING SYSTEMS TO ENGINEER.
  - THE CONTRACTOR SHALL FURNISH, TO THE JOBSITE, AND INSTALL ALL EQUIPMENT AND MATERIALS SPECIFIED IN THE TECHNICAL SECTIONS OF THIS SPECIFICATION. THE INSTALLATION SHALL INCLUDE ALL ACCESSORIES REQUIRED TO ASSURE A COMPLETE AND WORKABLE INSTALLATION.
  - THE WORK SHALL INCLUDE THE FURNISHING OF ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, TRANSPORTATION, PERMITS, INSPECTION FEES, SERVICES AND ALL NECESSARY RELATED ITEMS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.
  - BEFORE SUBMITTAL OF BID, THOROUGHLY EXAMINE THE SITE. NO CLAIM FOR EXTRA COMPENSATION WILL BE RECOGNIZED IF DIFFICULTIES ARE ENCOUNTERED WHICH AN EXAMINATION OF SITE CONDITIONS, PRIOR TO EXECUTING CONTRACT WOULD HAVE REVEALED.
- B. CODE AND REGULATIONS: THE ENTIRE INSTALLATION SHALL CONFORM WITH ALL PERTINENT ORDINANCES, CODES AND REGULATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, THE NATIONAL ELECTRICAL CODE (NEC) AND OTHER REGULATORY BODIES HAVING JURISDICTION OVER THIS CLASS OF WORK.
- C. COORDINATION: ELECTRICAL CONTRACTOR SHALL SCHEDULE AND COORDINATE ALL ELECTRICAL OUTAGES WITH THE OWNER, A MINIMUM OF TWO WEEK (14-DAYS) PRIOR TO SHUTDOWN.
- D. SHOP DRAWINGS AND PRODUCT DATA
- ALL EQUIPMENT MATERIALS SHALL BE AS SPECIFIED HEREIN.
  - THE FOLLOWING MATERIALS AND EQUIPMENT SHALL BE SUBMITTED:
    - FIRESTOPPING MATERIALS.
    - PANELBOARDS & CIRCUIT BREAKERS.
    - DISCONNECT SWITCHES.
    - DEVICES, FACEPLATES AND BOXES.
    - BUILDING POWER WIRING AND CONDUIT.
    - PHOTOVOLTAIC GENERATION SYSTEM: PV PANELS, PV MODULE FRAMING, PV ARRAY AND CONSTRUCTION, INVERTERS, SYSTEM OVERCURRENT PROTECTION, WIRING OVER 1000V, DISCONNECTS, PLANS, ELEVATIONS, MOUNTING DETAILS, AND POWER/SIGNAL WIRING DIAGRAMS.
- E. GUARANTEE: THE ENTIRE INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF ACCEPTANCE, BY THE OWNER, UNLESS OTHERWISE SPECIFIED, AGAINST DEFECTS IN MATERIAL AND WORKMANSHIP, IN ACCORDANCE WITH THE TERMS OF THE CONTRACT. GUARANTEE SHALL COVER THE REPLACEMENT, WITHOUT COST TO THE OWNER OF ANY AND ALL ITEMS THAT SHALL BECOME DEFECTIVE WITHIN THE STATED TIME.
- F. REMOVAL OF RUBISH: PERIODICALLY AND AT THE COMPLETION OF THE WORK CONTEMPLATED UNDER THESE SPECIFICATIONS, THE CONTRACTOR SHALL REMOVE FROM THE BUILDING AND SITE ALL RUBBISH AND ACCUMULATED MATERIALS OF WHATEVER NATURE NOT CAUSED BY OTHER TRADES, AND SHALL LEAVE THE WORK IN A CLEAN, ORDERLY AND ACCEPTABLE CONDITION.
- G. MATERIALS AND EQUIPMENT: ALL EQUIPMENT OR APPARATUS OF ANY ONE SYSTEM MUST BE THE PRODUCT OF ONE MANUFACTURER, OR EQUIVALENT PRODUCTS OF A NUMBER OF MANUFACTURERS WHICH ARE SUITABLE FOR USE IN A UNIFIED OR ASSEMBLED SYSTEM. ALL MATERIALS AND EQUIPMENT TO BE FURNISHED UNDER THIS CONTRACT SHALL BE NEW.
- H. EQUIPMENT SUPPORTS AND ACCESS: FURNISH AND INSTALL ALL STRUCTURAL STEEL MEMBERS, HANGERS AND SUPPORTS AS REQUIRED FOR SUPPORT OF EQUIPMENT AND MATERIALS (CONDUIT, EQUIPMENT, DEVICES, ETC.) IN ACCORDANCE WITH INDUSTRY STANDARDS. EXTERIOR SUPPORTS SHALL BE GALVANIZED STAINLESS STEEL.
- I. FINISH AND ACCESSORIES: THE CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL WORK AND ALL FINISH CONDITIONS AFFECTING HIS WORK. HE SHALL ARRANGE HIS WORK IN ACCORDANCE WITH SUCH CONDITIONS, FURNISHING ALL ACCESSORIES TO MEET SUCH CONDITIONS.
- J. CUTTING, PATCHING AND PAINTING:
- PROVIDE ALL CUTTING AND PATCHING FOR UNTELS, RECESSES, CHASES, AND MAJOR OPENINGS IN ROOFS, WALLS, FLOORS, CEILINGS, AND PARTITIONS TO RECEIVE CONDUITS, BUS DUCTS, AND EQUIPMENT.
  - PROVIDE ALL CUTTING AND PATCHING FOR MINOR OPENINGS, AND REPAIR ALL DAMAGED AREAS. PAINT SHALL MATCH EXISTING SURROUNDINGS
  - ALL CUTTING AND PATCHING SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER BY WORKMEN SKILLED IN THE APPLICABLE TRADE INVOLVED, AND SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER/ARCHITECT.
  - THE CONTRACTOR SHALL FURNISH AND PLACE ALL SLEEVES REQUIRED FOR CONDUITS, BUS DUCTS, ETC., PASSING THROUGH ROOFS, FLOORS, WALLS, AND CEILINGS ALL ANCHORS AND INSERTS REQUIRED FOR CONDUITS AND EQUIPMENT FURNISHED UNDER THIS CONTRACT.
- K. INSPECTION AND TESTING: ELECTRICAL WORK SHALL BE INSPECTED BY THE CODE OFFICIAL AS PRESCRIBED BY THE MUNICIPALITY THE WORK IS BEING PERFORMED IN.
- L. PROJECT CLOSE-OUT:
- CLEAN ALL WORK AT PROJECT COMPLETION, SUBJECT TO ACCEPTANCE OF OWNER.
  - MAINTAIN A RECORD SET OF DRAWINGS SHOWING ALL CHANGES DURING CONSTRUCTION PROCESS. DELIVER THESE RECORD DRAWINGS TO ARCHITECT AT COMPLETION OF PROJECT.

PENETRATION FIRESTOPPING

- A. PENETRATIONS IN FIRE-RESISTANCE-RATED WALLS: PENETRATION FIRESTOPPING SYSTEMS WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.01-INCH WG.
- B. PENETRATIONS IN HORIZONTAL ASSEMBLIES: PENETRATION FIRESTOPPING SYSTEMS WITH RATINGS DETERMINED PER ASTM E 814 OR UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.01-INCH WG.
- C. PENETRATIONS IN SMOKE BARRIERS: PENETRATION FIRESTOPPING SYSTEMS WITH RATINGS DETERMINED PER UL 1479, BASED ON TESTING AT A POSITIVE PRESSURE DIFFERENTIAL OF 0.30-INCH WG.
- D. EXPOSED PENETRATION FIRESTOPPING SYSTEMS: FLAME-SPREAD AND SMOKE-DEVELOPED INDEXES OF LESS THAN 25 AND 450, RESPECTIVELY, PER ASTM E 84.
- E. PENETRATIONS IN NON-RATED WALLS/ASSEMBLIES: PACK ANNULAR SPACE WITH FIBERGLASS INSULATION.
- F. ACCESSORIES: PROVIDE COMPONENTS FOR EACH PENETRATION FIRESTOPPING SYSTEM THAT ARE NEEDED TO INSTALL FILL MATERIALS AND TO MAINTAIN RATINGS REQUIRED. USE ONLY THOSE COMPONENTS SPECIFIED BY PENETRATION FIRESTOPPING SYSTEM MANUFACTURER AND APPROVED BY QUALIFIED TESTING AND INSPECTING AGENCY FOR CONDITIONS INDICATED.
- G. PENETRATION IDENTIFICATION: IDENTIFY EACH PENETRATION FIRESTOPPING SYSTEM WITH LEGIBLE METAL OR PLASTIC LABELS. ATTACH LABELS PERMANENTLY TO SURFACES ADJACENT TO AND WITHIN 6 INCHES OF PENETRATION FIRESTOPPING SYSTEM EDGE SO LABELS ARE VISIBLE TO ANYONE SEEKING TO REMOVE PENETRATING ITEMS OR FIRESTOPPING SYSTEMS. USE MECHANICAL FASTENERS OR SELF-ADHERING-TYPE LABELS WITH ADHESIVES CAPABLE OF PERMANENTLY BONDING LABELS TO SURFACES ON WHICH LABELS ARE PLACED. INCLUDE THE FOLLOWING INFORMATION ON LABELS:
- THE WORDS "WARNING - PENETRATION FIRESTOPPING - DO NOT DISTURB. NOTIFY BUILDING MANAGEMENT OF ANY DAMAGE."
  - CONTRACTOR'S NAME, ADDRESS, AND PHONE NUMBER, DATE OF INSTALLATION, MANUFACTURER'S NAME AND INSTALLERS NAME.
  - DESIGNATION OF APPLICABLE TESTING AND INSPECTING AGENCY.

ELECTRICAL SYMBOLS

120V 20A DUPLEX RECEPTACLE

120V 20A SIMPLEX RECEPTACLE

"AC" INDICATES RECEPTACLE IS TO BE INSTALLED 6" ABOVE COUNTER

"BC" INDICATES RECEPTACLE IS TO BE INSTALLED 6" BELOW COUNTER; MOUNT DEVICE HORIZONTALLY

"GF" INDICATES RECEPTACLE IS GROUND FAULT CIRCUIT INTERRUPTING

"WP" INDICATES RECEPTACLE IS TO BE INSTALLED WITH WEATHER-PROOF IN-USE COVER

"48" INDICATES MOUNTING HEIGHT OF RECEPTACLE

(2) DUPLEX RECEPTACLES IN A SINGLE BOX

ISOLATED GROUND DUPLEX RECEPTACLE

HALF SWITCHED DUPLEX RECEPTACLE

208V, 1-PH RECEPTACLE; AMPS AS INDICATED

208V, 3-PH RECEPTACLE; AMPS AS INDICATED

CEILING MOUNTED DUPLEX RECEPTACLE

MANUAL MOTOR STARTER WITH THERMAL OVERLOADS

JUNCTION BOX; CEILING MOUNTED

JUNCTION BOX; WALL MOUNTED

POWER POLE

MOTOR LOAD

FLOORBOX OUTLETLET WITH DUPLEX RECEPTACLE AND (2) DATA OUTLETS UNLESS NOTED OTHERWISE

FLOORBOX OUTLETLET WITH (2) DUPLEX RECEPTACLES AND (4) DATA OUTLETS UNLESS NOTED OTHERWISE

RECESSED TV WALLBOX WITH DUPLEX RECEPTACLE, TV OUTLET AND (2) DATA OUTLETS UNLESS NOTED OTHERWISE

RECESSED TV WALLBOX WITH DUPLEX RECEPTACLE AND (2) CAT 5E OUTLETS UNLESS NOTED OTHERWISE

PANELBOARD: 120/208V, 3Ø, 4W; SURFACE MOUNTED

PANELBOARD: 120/208V, 3Ø, 4W; FLUSH MOUNTED

EXISTING PANELBOARD: 120/208V, 3Ø, 4W

PANELBOARD: 277/480V, 3Ø, 4W; SURFACE MOUNTED

PANELBOARD: 277/480V, 3Ø, 4W; FLUSH MOUNTED

DISCONNECT SWITCH; SIZE AND VOLTAGE AS SCHEDULED

COMBINATION MOTOR STARTER/DISCONNECT SWITCH; SIZE AND VOLTAGE AS SCHEDULED

DRY-TYPE XFMR; SIZE AND VOLTAGE AS SCHEDULED

MOTORIZED DAMPER

SITWORK; UTILITY POLE

SITWORK; MANHOLE

MISC SYMBOLS

NEW WORK

EXISTING WORK

DEMOLITION WORK

UNDERGROUND ELECTRICAL PATHWAY

OVERHEAD ELECTRICAL UTILITY LINES

HOMERUN TO PANELBOARD

CONDUCTOR; (2) WIRE + GND UNLESS NOTED; REFER TO PANEL SCHEDULES FOR WIRE AND PATHWAY SIZE

CONDUCTOR; (3) WIRE + GND UNLESS NOTED; REFER TO PANEL SCHEDULES FOR WIRE AND PATHWAY SIZE

CONDUCTOR; (4) WIRE + GND UNLESS NOTED; REFER TO PANEL SCHEDULES FOR WIRE AND PATHWAY SIZE

KEYED NOTE

CONNECT TO EXISTING

POINT OF DEMOLITION

DETAIL CALLOUT

ELECTRICAL SPECIFICATIONS

- DIVISION 26 - ELECTRICAL
- 26 05 19 - BUILDING ELECTRICAL POWER CONDUCTORS AND CABLES  
 A. COPPER BUILDING WIRE: FLEXIBLE, INSULATED AND UNINSULATED, DRAWN COPPER CURRENT-CARRYING CONDUCTOR WITH AN OVERALL INSULATION LAYER OR JACKET, OR BOTH. RATED 600 V OR LESS. CONDUCTORS SHALL COMPLY WITH ASTM B 3 FOR BARE ANNEALED COPPER AND WITH ASTM B 496 FOR STRANDED CONDUCTORS. CONDUCTORS SHALL NOT HAVE LESS THAN 98% CONDUCTIVITY.  
 B. MINIMUM SIZE FOR POWER CONDUCTORS SHALL BE #12, WIRE SIZES #8 AND LARGER SHALL BE STRANDED, WIRE SIZES #10 AND #12 SHALL BE SOLID CONDUCTORS.  
 C. SHARED NEUTRAL CONDUCTORS SHALL NOT BE PERMITTED, EACH BRANCH CIRCUIT PHASE CONDUCTOR SHALL BE PAIRED WITH A DEDICATED NEUTRAL CONDUCTOR ALONG ITS ENTIRE LENGTH.  
 D. ALUMINUM CONDUCTORS WILL NOT BE PERMITTED.  
 E. INSTALLATION OF CONDUCTORS AND CABLES:
- CONNECTORS AND SPLICES: FACTORY-FABRICATED CONNECTORS, SPLICES, AND LUGS OF SIZE, AMPACITY RATING, MATERIAL TYPE, AND CLASS FOR APPLICATION AND SERVICE INDICATED; LISTED AND LABELED AS DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR INTENDED LOCATION AND USE.
  - MAKE SPLICES, TERMINATIONS, AND TAPS THAT ARE COMPATIBLE WITH CONDUCTOR MATERIAL.
  - TIGHTEN ELECTRICAL CONNECTORS AND TERMINALS ACCORDING TO MANUFACTURER'S PUBLISHED OR THOSE SPECIFIED IN UL 486A-486B.
- 26 05 33 - RACEWAYS AND BOXES FOR ELECTRICAL SYSTEMS  
 A. RACEWAYS:
- INTERIOR BRANCH CIRCUITS CONCEALED IN WALLS AND CEILINGS: ELECTRICAL METALLIC TUBING (EMT).
  - INTERIOR EXPOSED, NOT EXPOSED TO MECHANICAL DAMAGE: ELECTRICAL METALLIC TUBING (EMT).
  - AREA SUBJECT TO MECHANICAL DAMAGE: RIGID METAL CONDUIT (RMC).
  - EXTERIOR, ABOVE GRADE: RIGID METAL CONDUIT (RMC).
  - UNDERGROUND: SCHEDULE 80 PVC.
  - ALL CONDUITS SHALL BE A MINIMUM OF 3/4 INCH.
  - ALL CONDUITS AND WIRING SHALL BE CONCEALED, UNLESS NOTED OTHERWISE.
  - COMPRESSION FITTINGS.
- B. BOXES:
- INTERIOR SHEET METAL PULL BOXES AND JUNCTION BOXES SHALL COMPLY WITH NEMA OS 1.
  - POLYMER-CONCRETE HANDHOLES AND BOXES WITH POLYMER-CONCRETE COVER: MOLDED OF SAND AND AGGREGATE, BOUND TOGETHER WITH POLYMER RESIN, AND REINFORCED WITH STEEL, FIBERGLASS, OR A COMBINATION OF THE TWO, COMPLY WITH SCIE 77, DESIGNED FOR FLUSH BURIAL WITH OPEN BOTTOM, WEATHERPROOF COVER WITH MOLDED LETTERING INDICATING EQUIPMENT WITHIN ("ELECTRICAL", "TELECOMMUNICATIONS", ETC.).
  - UNLESS NOTED OTHERWISE, ALL WIRING IN FINISHED AREAS SHALL BE CONCEALED EITHER IN WALLS, ABOVE THE FINISHED CEILING, BELOW THE FLOOR OR IN SURFACE RACEWAY.
  - MAINTAIN A MINIMUM OF 9'-0" CLEARANCE TO THE UNDERSIDE OF CONDUITS, SUSPENDED EQUIPMENT, ETC. THROUGH-OUT ACCESS ROUTES IN MECHANICAL/ELECTRICAL EQUIPMENT ROOMS.
- 26 05 44 - SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING  
 A. SLEEVES: GALVANIZED RIGID STEEL CONDUIT A MINIMUM OF 2" LARGER THAN THE OUTSIDE DIAMETER OF CONDUIT, CUT SLEEVE SQUARE AND SMOOTH, FLUSH WITH WALL OR FLOOR FINISH ON BOTH SIDES.
- 26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS  
 A. EQUIPMENT NAMEPLATES: LAMINATED PHENOLIC WITH TWO OUTER LAYERS OF BLACK PHENOLIC AND AN INNER LAYER OF WHITE WITH ENGRAVING DEPTH TO THE INNER WHITE LAYER.
- 26 24 13 - SWITCHBOARDS  
 A. ACCEPTABLE MANUFACTURERS: SQUARE D QED SERIS [MATCH EXISTING].
- COMPLY WITH NEMA PB 2, NFPA 70 AND UL 891.
  - FRONT CONNECTED, FRONT ACCESSIBLE AND FRONT AND REAR ALIGNED SECTIONS.
  - BRANCH OVERCURRENT DEVICES: PANEL MOUNTED.
  - ENCLOSURES: DEAD-FRONT, REMOVABLE REAR DOORS AND COMPARTMENT COVERS; SECURED BY STANDARD BOLTS, FOR ACCESS TO REAR INTERIOR OF SWITCHBOARD.
  - LOAD TERMINALS: INSULATED, RIGIDLY BRACED, RUNBACK BUS EXTENSIONS, OF SAME MATERIAL AS THROUGH BUSES, EQUIPPED WITH MECHANICAL CONNECTORS FOR OUTGOING CIRCUIT CONDUCTORS. PROVIDE LOAD TERMINALS FOR FUTURE CIRCUIT-BREAKER POSITIONS AT FULL-AMPERE RATING OF OVERCURRENT PROTECTION DEVICE POSITION.
  - MAIN-PHASE BUSES AND EQUIPMENT-GROUND BUSES: UNIFORM CAPACITY FOR ENTIRE LENGTH OF SWITCHBOARD'S MAIN AND DISTRIBUTION SECTIONS. PROVIDE FOR FUTURE EXTENSIONS FROM BOTH ENDS.
  - NEUTRAL BUSES: 100 PERCENT OF THE AMPACITY OF PHASE BUSES UNLESS OTHERWISE INDICATED, EQUIPPED WITH MECHANICAL CONNECTORS FOR OUTGOING CIRCUIT NEUTRAL CABLES. BRACE BUS EXTENSIONS FOR BUSWAY FEEDER NEUTRAL BUS.
  - PHASE, NEUTRAL, AND GROUND BUSES: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
  - CONDUCTOR CONNECTORS: SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES.
  - LUG MATERIAL: HARD-DRAWN COPPER, 98 PERCENT CONDUCTIVITY.
    - MAIN AND NEUTRAL LUGS: MECHANICAL TYPE, WITH A LUG ON THE NEUTRAL BAR FOR EACH POLE IN THE PANELBOARD.
    - GROUND LUGS AND BUS-CONFIGURED TERMINATORS: MECHANICAL TYPE, WITH A LUG ON THE BAR FOR EACH POLE IN THE PANELBOARD.
  - FUTURE DEVICES: SWITCHBOARD SHALL HAVE MOUNTING BRACKETS, BUS CONNECTIONS, FILLER PLATES, AND NECESSARY APPURTENANCES REQUIRED FOR FUTURE INSTALLATION OF DEVICES AS INDICATED ON DRAWINGS AS "PROVISIONS".
- B. DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES:
- FUSED SWITCH: NEMA KS 1, TYPE HS; CLIPS TO ACCOMMODATE SPECIFIED FUSES; LOCKABLE HANDLE.
- 26 28 13 - FUSES  
 A. ACCEPTABLE MANUFACTURERS: BUSSMANN, EDISON, LITTLEFUSE, INC., OR MERSEN USA.  
 B. CARTRIDGE FUSES: NEMA FU 1, CURRENT-LIMITING, NONRENEWABLE CARTRIDGE FUSES WITH VOLTAGE RATINGS CONSISTENT WITH CIRCUIT VOLTAGES.
  - Type RK-5: 250-V, zero- to 600-A rating, 200 kAIC.

EMERGENCY POWER REVISIONS

PATTON TOWNSHIP

MUNICIPAL BUILDING

100 PATTON PLAZA

STATE COLLEGE, PA 16803

Fernsler  
Hutchinson

ARCHITECTURE LLC

State College, PA 16801

521 East Beaver Ave.

814-234-6606

ef: fhain@aoi.com

EMERGENCY POWER REVISIONS

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DATE	NO	REVISIONS

DATE: **FEBRUARY 27, 2016**

PROJECT NO: **1727**

SHEET NAME:

ELECTRICAL LEGEND

SHEET NO: **E0**

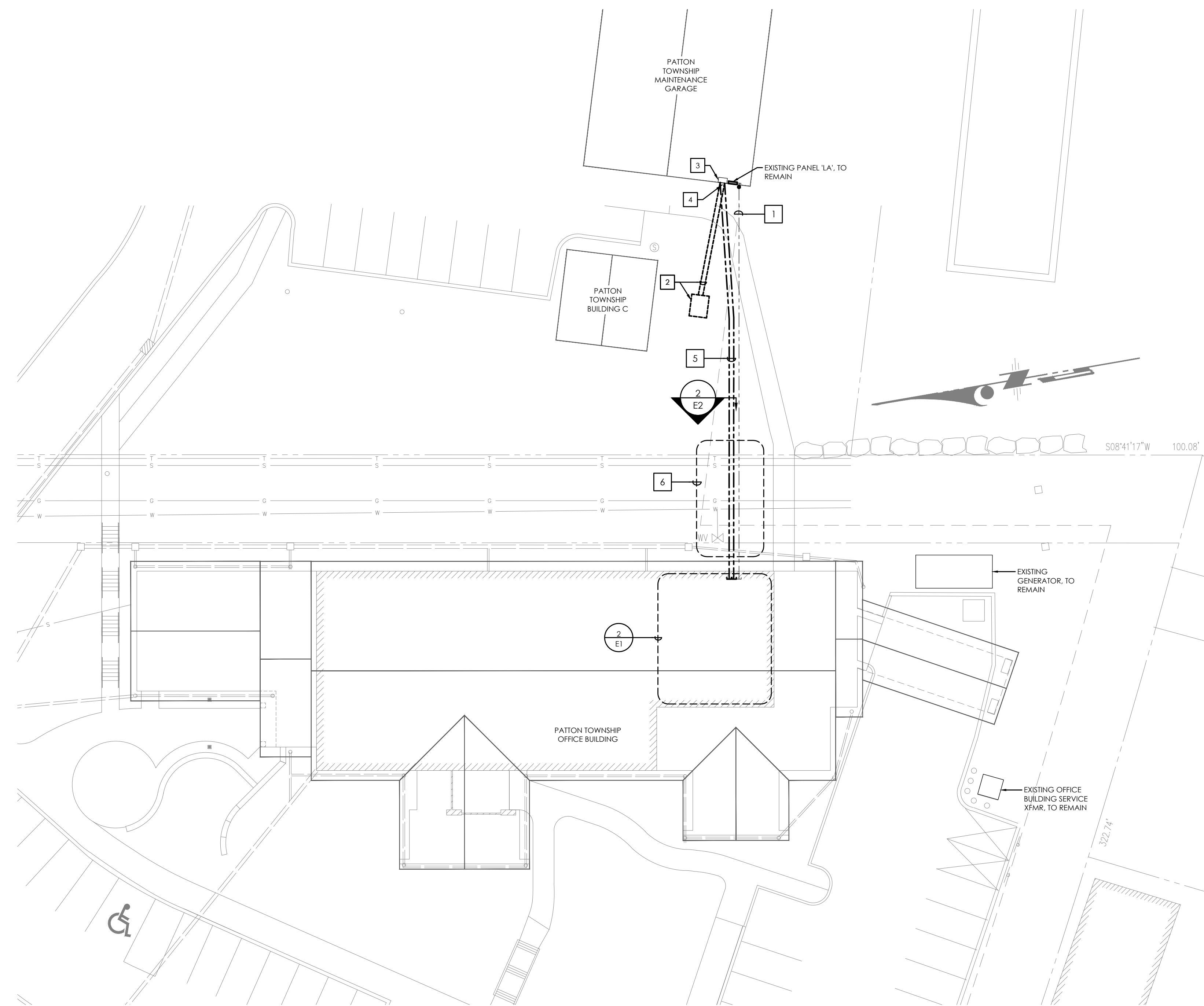
**PENO ENGINEERING**

MECHANICAL & ELECTRICAL CONSULTANTS

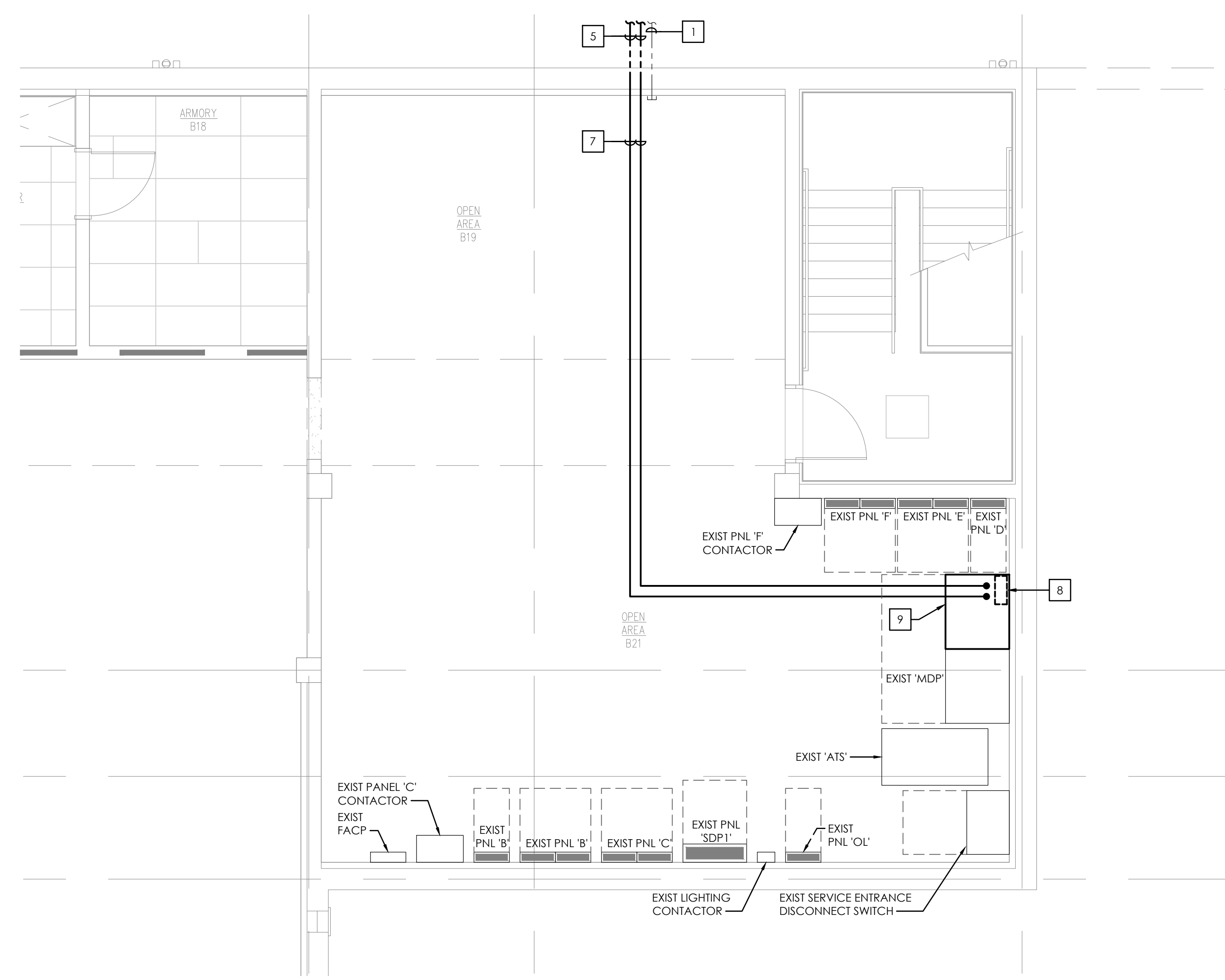
2746 WEST COLLEGE AVENUE    PROJECT NO: E37081

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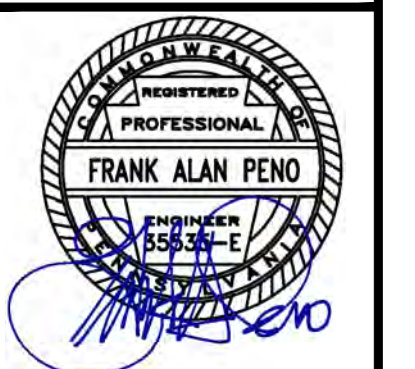
**1 ELECTRICAL SITE PLAN**  
SCALE: 1" = 20'-0"



**2 PARTIAL BASEMENT ELECTRICAL PLAN**  
SCALE: 1/4" = 1'-0"

**KEY NOTES:**

1. EXISTING UNDERGROUND TELECOMMUNICATIONS CONDUIT FROM OFFICE BUILDING TO MAINTENANCE GARAGE, TO REMAIN.
2. EXISTING MAINTENANCE GARAGE ELECTRICAL SERVICE TRANSFORMER AND CONCRETE PAD, TO BE REMOVED. COORDINATE DISCONNECTION AND REMOVAL OF TRANSFORMER AND CONCRETE PAD WITH ELECTRICAL SERVICE PROVIDER. PROVIDE BACKFILL AND GRASS AS REQUIRED TO REGRADE SITE TO MATCH EXISTING SLOPE. REMOVE SECONDARY CONDUIT AND WIRING FROM TRANSFORMER TO EXISTING CT CABINET IN MAINTENANCE GARAGE.
3. EXISTING CT ENCLOSURE, TO REMAIN. REMOVE EXISTING CTS AND MAINTAIN BOX AS PULLBOX FOR PANEL 'LA' FEEDER CONDUCTORS FROM 'MDP' IN OFFICE BUILDING.
4. EXISTING MAINTENANCE GARAGE ELECTRICAL METER AND ENCLOSURE, TO BE REMOVED. COORDINATE REMOVAL WITH ELECTRICAL SERVICE PROVIDER.
5. FURNISH AND INSTALL UNDERGROUND DUCTBANK WITH (2) 4" SCHEDULE 80 PVC CONDUITS FROM 'MDP' IN OFFICE BUILDING TO PANEL 'LA' IN MAINTENANCE GARAGE.
6. ROUTE DUCTBANK UNDER EXISTING UTILITIES (WATER, GAS, TELECOM, SANITARY, STORM, ETC.) IN THIS AREA. HAND DIGGING WILL BE REQUIRED.
7. ROUTE PANEL 'LA' FEEDER CONDUITS EXPOSED, OVERHEAD IN THIS ROOM.
8. FURNISH AND INSTALL NEW VERTICAL SECTION ONTO EXISTING SWITCHBOARD 'MDP'. REFER TO ONE-LINE DIAGRAM FOR DETAILS. FURNISH AND INSTALL CONCRETE HOUSEKEEPING PAD FOR NEW VERTICAL SWITCHBOARD SECTION (HEIGHT OF PAD SHALL MATCH EXISTING). EXTEND HOUSEKEEPING PAD 2" BEYOND FOOTPRINT OF SWITCHBOARD.
9. EXISTING REMOTE TVSS UNIT FOR 'MDP', TO BE RELOCATED. DISCONNECT AND REMOVE DEVICE, AND REINSTALL IN NEW VERTICAL SECTION OF 'MDP'.



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REVISIONS	DATE	NO.	DESCRIPTION

DATE: FEBRUARY 27, 2018

PROJECT NO: 1727

SHEET NAME:

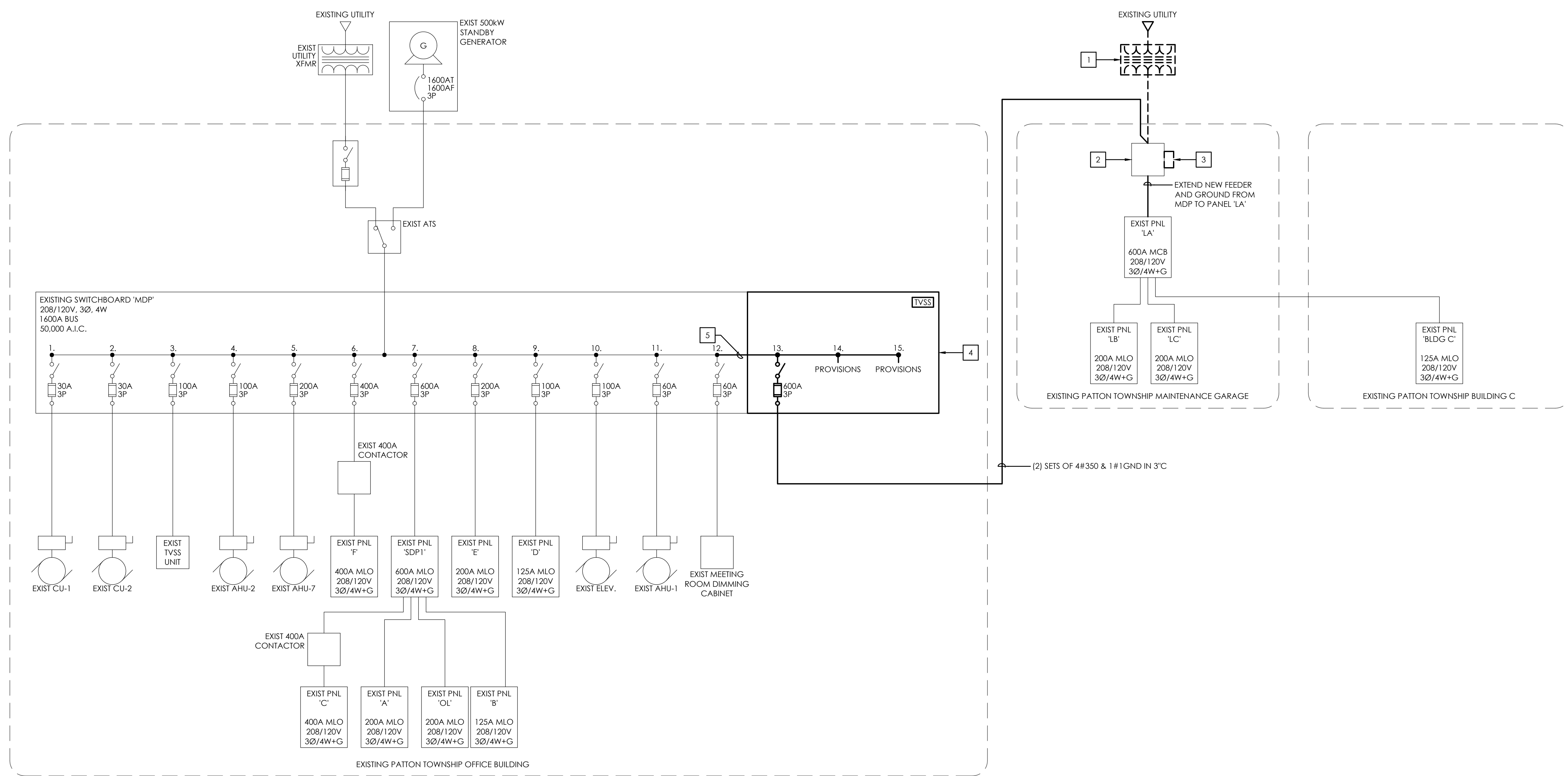
PLANES - ELECTRICAL

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**E1**

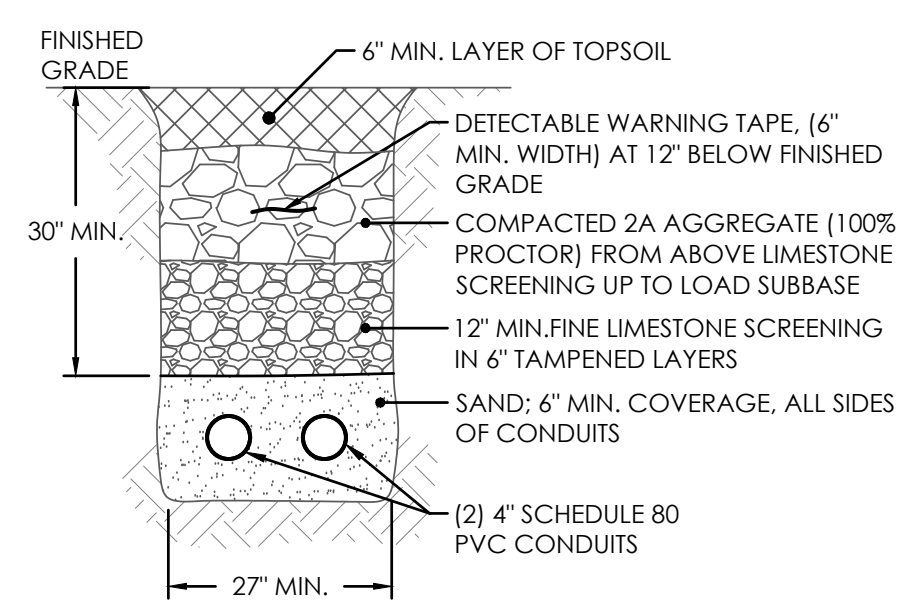
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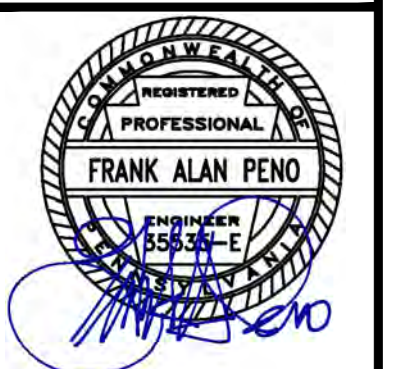


- KEY NOTES:**
- EXISTING MAINTENANCE GARAGE SERVICE TRANSFORMER, TO BE REMOVED. COORDINATE DISCONNECTION AND REMOVAL OF TRANSFORMER WITH ELECTRICAL SERVICE PROVIDER. REMOVE EXISTING TRANSFORMER PAD/VAULT, AND PROVIDE BACKFILL AND GRASS AS REQUIRED TO REGRADE SITE TO MATCH EXISTING SLOPE. REMOVE SECONDARY CONDUIT AND WIRING FROM TRANSFORMER TO EXISTING CT CABINET IN MAINTENANCE GARAGE.
  - EXISTING CT ENCLOSURE, TO REMAIN. REMOVE EXISTING CT'S AND MAINTAIN BOX AS PULLBOX FOR PANEL 'LA' FEEDER CONDUCTORS FROM 'MDP' IN OFFICE BUILDING.
  - EXISTING MAINTENANCE GARAGE ELECTRICAL METER AND ENCLOSURE, TO BE REMOVED. COORDINATE REMOVAL WITH ELECTRICAL SERVICE PROVIDER.
  - FURNISH AND INSTALL NEW VERTICAL DISTRIBUTION SECTION ON EXISTING SWITCHBOARD 'MDP'. VERTICAL SECTION SHALL MATCH EXISTING SWITCHBOARD MAKE/MODEL (MANUFACTURER ORDER LOOKUP #17819079-001).
  - FURNISH AND INSTALL COOPER DENSITY-RATED 2KA THROUGH BUS TO CONNECT EXISTING SWITCHBOARD TO NEW VERTICAL SECTION.

1 ONE-LINE DIAGRAM - ELECTRICAL  
E2 SCALE: NO SCALE



2 DUCTBANK DETAIL  
E2 SCALE: NO SCALE



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SHEET NAME:

DETAILS - ELECTRICAL

SHEET NO:

E2