**ENG FORM 6293 (AUGUST 2024) · EM 385-1-1 (Effective 15 March 2024)**

# ACCIDENT PREVENTION PLAN (APP)

Complete Site-Specific Safety & Occupational Health Submittal Package
Including ENG Form 6293 (Parts 1-13), Part 11 Site-Specific Plans, ENG Form 6282 & ENG Form 6206 AHAs

## Fort Mifflin Sewer Lift Replacement Project

| | |
|---|---|
| **Contract Number** | **W912BU27CA002** |
| **USACE District / Office** | W2SD ENDIST PHILADELPHIA |
| **Prime Contractor** | **KASER MECHANICAL LLC** — BURLINGTON, NJ 08016 USA |
| **Project Location** | Fort Mifflin, Philadelphia, PA 19153 |
| **Primary SSHO** | Robert Alvarez, CHST (Level 1) |
| **Corporate Safety Official** | Patricia Reynolds, CSP |
| **Submittal Revision & Date** | **Revision 0** · 2026-12-15 |

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## U.S. ARMY CORPS OF ENGINEERS (USACE) — ACCIDENT PREVENTION PLAN (APP)

ENG FORM 6293, AUG 2024
PREVIOUS EDITIONS ARE OBSOLETE

**For use of this form, see EM 385-1-1 (Effective 15 March 2024); proponent agency is CESO.** Purpose: An APP is a written site-specific Safety & Occupational Health plan developed by a Competent Person, reviewed and approved by the Prime Contractor and Corporate Safety Official, and accepted by the KO/COR prior to performing any work. No contract work may begin without an accepted APP.

### PART 1 - SIGNATURES

| Plan Preparer (CP / QP / SSHO) | Plan Approver (Corporate Safety Official) | Plan Concurrence (Prime PM / QC) |
|---|---|---|
| 1. NAME<br>**Robert Alvarez, CHST**<br>2. TITLE<br>Primary SSHO (Level 1)<br>3. EMAIL / 4. PHONE<br>ralvarez@contractor-safety.us<br>(555) 234-8810<br>Signature _____ Date _____ | 1. NAME<br>**Patricia Reynolds, CSP**<br>2. TITLE<br>Corporate Safety Director<br>3. EMAIL / 4. PHONE<br>safety@contractor-safety.us<br>(555) 234-8800<br>Signature _____ Date _____ | 1. NAME<br>**Jordan Vance, PE**<br>2. TITLE<br>Project Manager<br>3. EMAIL / 4. PHONE<br>pm@contractor-safety.us<br>(555) 234-8820<br>Signature _____ Date _____ |

### PART 2: PROJECT INFORMATION

| 1. PROJECT NAME | 2. PROJECT ADDRESS (ATTACH MAP IN APPENDIX 1) |
|---|---|
| **Fort Mifflin Sewer Lift Replacement Project** | Fort Mifflin, Philadelphia, PA 19153 |
| **3. ESTIMATED PROJECT START DATE**<br>2026-12-15 | **4. ESTIMATED PROJECT COMPLETION DATE**<br>2027-09-30 |

**5. PROJECT DESCRIPTION / DESCRIPTION OF WORK TO BE PERFORMED**

Replacement of existing sewer lift station pumps, wet well entry, underground utility trenching/excavation, electrical disconnect and LOTO, and re-commissioning at Fort Mifflin.

### PART 3: PRIME CONTRACTOR INFORMATION

| 1. PRIME CONTRACTOR NAME | 2. CONTRACT NUMBER |
|---|---|
| **KASER MECHANICAL LLC** | **W912BU27CA002** |
| **3. PROJECT MANAGER NAME**<br>Jordan Vance, PE | **4. QUALITY CONTROL (QC) MANAGER NAME**<br>Elena Morales, CQM-C |
| **5. CONTRACTOR CORPORATE SAFETY OFFICIAL NAME**<br>Patricia Reynolds, CSP | **6. PRIMARY SSHO / 7. ALTERNATE SSHO(S)**<br>Robert Alvarez, CHST / Alt: Sarah Jenkins, OSHA 30 |

### PART 4: SOH COMMITMENT AND POLICY

**1. SAFETY & HEALTH POLICY STATEMENT**

KASER MECHANICAL LLC is committed to executing Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002) with zero preventable injuries, occupational illnesses, or property damage in full compliance with USACE EM 385-1-1 (Effective 15 March 2024) and 29 CFR 1926.

**2. SAFETY PROGRAM GOALS & OBJECTIVES**

Achieve 0.00 DART and 0.00 OSHA Recordable Incident Rate on Fort Mifflin Sewer Lift Replacement Project through 100% pre-task AHA review, daily SSHO inspections, immediate hazard abatement, and empowered employee stop-work authority.

**3. NON-COMPLIANCE POLICIES & PROCEDURES**

Progressive safety enforcement applies to all prime and subcontractor personnel: (1) immediate verbal coaching and hazard correction for minor infractions, (2) written safety violation notice with mandatory retraining for repeat violations, and (3) permanent site removal for willful or imminent-danger violations.

**4. MANAGER & SUPERVISOR ACCOUNTABILITY PROCEDURES**

Project Manager Jordan Vance, PE, QC Manager Elena Morales, CQM-C, and Primary SSHO Robert Alvarez, CHST share direct accountability for safety performance, evaluated through weekly deficiency closure metrics, AHA audit scores, and zero-tolerance enforcement of EM 385-1-1 (2024) standards.

| Mandatory SOH Compliance Affirmations (Items 5-12) | Response |
|---|---|
| 5. Prime contractor is responsible for the implementation and enforcement of the SOH program for contractor employees, subcontractors, suppliers, and visitors at the site of work. | ☑ YES ☐ NO |
| 6. Prime contractor will require subcontractors, suppliers, and visitors to comply with the APP and EM 385-1-1. | ☑ YES ☐ NO |
| 7. No work will be performed unless a designated SSHO is present on the site of work. | ☑ YES ☐ NO |
| 8. A list of all known subcontractor(s) and supplier(s) are listed in Appendix 2. | ☑ YES ☐ NO |
| 9. If all subcontractor(s) and supplier(s) are not known at the time of initial APP submittal, Appendix 2 will be updated and resubmitted to the KO/COR for acceptance prior to the start of any work activities. | ☑ YES ☐ NO |
| 10. All subcontractors will have a copy of the APP, applicable AHAs and will be required to comply with them. | ☑ YES ☐ NO |
| 11. Subcontractors and suppliers at the site of work will abide by the EM 385-1-1, this APP, and all AHAs. | ☑ YES ☐ NO |
| 12. This APP and AHAs will be available to all workers at the site of work. | ☑ YES ☐ NO |

## PART 5: TRAINING

**Site Orientation (Para 2-3):** Every employee, subcontractor worker, and regular supplier must complete a documented site-specific APP orientation led by Robert Alvarez, CHST prior to commencing work on Fort Mifflin Sewer Lift Replacement Project, covering site hazards, emergency egress, hospital route, stop-work authority, and applicable AHAs (EM 385-1-1 Para 2-3).

**Toolbox Meetings:** Weekly documented all-hands safety meetings plus daily pre-shift AHA huddles for every Definable Feature of Work (DFOW).

- Site-Specific APP & Emergency Orientation (All Personnel)
- OSHA 30-Hour Construction (SSHO, Superintendent, Foremen)
- OSHA 10-Hour Construction (Field Craft Workers)
- First Aid / CPR / AED Certification (Minimum 2 Onsite Personnel per Para 3-3.b)
- Task-Specific Competent/Qualified Person Credentials for Applicable Part 11 Plans

**Recordkeeping:** All training certificates, orientation sign-in rosters, and toolbox meeting logs are maintained in the onsite SSHO binder and uploaded to USACE RMS.

**Onsite CPR / First Aid Certified Personnel (EM 385-1-1 Para 3-3.b · Minimum 2 Required)**

| Employee Name | Phone Number | Certification Expiry |
|---|---|---|
| Robert Alvarez, CHST | (555) 234-8810 | 2028-06-30 |
| Sarah Jenkins, OSHA 30 | (555) 234-8815 | 2028-06-30 |

## PART 6: SOH INSPECTIONS

**Daily Inspections (Para 2-5.b):** Primary SSHO Robert Alvarez, CHST conducts and documents daily safety and occupational health inspections of all active work zones on Fort Mifflin Sewer Lift Replacement Project in accordance with EM 385-1-1 (2024) Para 2-5.b, recording observations on the Daily Quality Control / Safety Report.

**Deficiency Tracking System:** Every identified safety deficiency is logged in the Site Deficiency Tracking Register with risk rating, assigned responsible party, immediate interim abatement, target closure date, and photographic verification prior to closure.

**External Audit Cooperation:** Full cooperation and unobstructed site access will be provided to USACE KO/COR representatives, District Safety Officers, and OSHA inspectors during all announced and unannounced inspections.

- Primary SSHO: Robert Alvarez, CHST (Daily SOH Inspections & RMS Reporting)
- QC Manager: Elena Morales, CQM-C (Three-Phase Control & Preparatory Safety Checks)
- Corporate Safety Official: Patricia Reynolds, CSP (Periodic Corporate SOH Audits)

## PART 7: ACCIDENT REPORTING AND INVESTIGATION

**Immediate Notification (Para 2-4):** All serious accidents, fatalities, in-patient hospitalizations, amputations, eye losses, or property damage >= $5,000 must be reported immediately by telephone to the USACE KO/COR and District Safety Office, securing the scene for investigation (EM 385-1-1 Para 2-4).

**Reporting Timelines:** Immediate verbal notification to KO/COR; written initial report within 24 hours; formal ENG Form 3394 Accident Investigation Report submitted within 5 calendar days (or 24 hours for high-severity events).

**ENGLink / ENG Form 3394:** Exposure man-hours and incident logs are submitted monthly via USACE RMS / ENGLink. Blank ENG Form 3394 templates are staged in Appendix 6 and the SSHO field trailer.

## PART 8: SOH OVERSIGHT

**Subcontractor Accountability:** All subcontractors listed in Appendix 2 are contractually bound to comply with this APP, EM 385-1-1 (2024), and approved AHAs prior to mobilization. Subcontractors must attend Preparatory Phase meetings and designate a site safety representative.

**Disciplinary Program:** Consistent progressive discipline (coaching, written warning, site suspension/removal) is enforced across prime and subcontractor tiers without exception.

**Visitor Escort & PPE (Para 2-8.a):** All visitors must sign in at the field office, receive a brief hazard orientation, wear minimum PPE (hard hat, safety glasses, hi-vis vest, closed-toe boots), and remain escorted by authorized personnel (Para 2-8.a).

**Stop-Work Authority:** Every individual on site—regardless of employer or rank—has full, unquestioned authority and obligation to stop any unsafe act or condition without fear of reprisal.

## PART 9: SEVERE WEATHER PLAN

**Monitoring Sources:** Primary SSHO monitors NOAA National Weather Service alerts, local radar, lightning proximity apps (10-mile radius), and WBGT/Heat Index forecasts continuously throughout each shift.

**Lightning & Wind Thresholds:** All outdoor and elevated work suspends immediately when lightning is detected within 10 miles (30-minute all-clear rule) or when sustained winds exceed crane/scaffold manufacturer limits (20 mph for elevated sheet handling / 30 mph general pause).

**Extreme Temperature Protocol:** Enforce mandatory hydration, shaded rest breaks, and acclimatization during high heat index conditions, and warm-up shelters/wind protection during freezing conditions per EM 385-1-1 Chapter 6.

**Evacuation & Shelter Plan:** Upon severe thunderstorm, tornado, or coastal storm warning, crews secure loose materials, de-energize temporary equipment, and relocate to designated hardened shelter or evacuate per base/local emergency management orders.

## PART 10: ACTIVITY HAZARD ANALYSIS (RISK MANAGEMENT)

A 5-step Risk Management process (Identify Hazards, Assess Hazards, Develop Controls & Make Risk Decisions, Implement Controls, Supervise & Evaluate) is executed for every Definable Feature of Work (DFOW) using 2024 ENG Form 6206 with the Energy Wheel (EM 385-1-1 Para 2-6).

- 1. Elimination — Physically remove the hazard from the task sequence.
- 2. Substitution — Replace hazardous materials or methods with safer alternatives.
- 3. Engineering Controls — Isolate workers via guardrails, shoring, ventilation, or LOTO.
- 4. Administrative Controls — Permits, signage, rotation schedules, and trained spotters.
- 5. Personal Protective Equipment (PPE) — Last line of defense matched to residual hazard.

**RAC Resubmittal Threshold:** Overall AHA Risk Assessment Code (RAC) equals the highest residual step RAC (Para 2-6.a(4)(f)). Any scope change or hazard increase that raises the RAC requires work stoppage, AHA revision, and KO/COR resubmittal prior to resuming work.

**Crew Briefing Procedure:** Every crew member reviews and signs the applicable ENG Form 6206 AHA prior to starting each DFOW; signed AHAs remain posted at the immediate work location.

## PART 11: REQUIRED PROJECT SITE-SPECIFIC PLANS AND PROCEDURES (ALL 66 OFFICIAL ITEMS)

| # | Minimum Plans Required by EM 385-1-1 | 2024 Para. | Selected Option | Justification (Option 2 & 3) / Appendix 5 Location |
|---|---|---|---|---|
| 1 | **Exposure Control Plan** | 3-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve occupational exposure to bloodborne pathogens or clinical biohazards. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 3-7.a will be submitted to the KO/COR prior to proceeding. |
| 2 | **AED Program** | 3-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve contract-mandated automated external defibrillator deployment beyond standard first aid. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 3-7.b will be submitted to the KO/COR prior to proceeding. |
| 3 | **Construction Site Plan** | 4-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve large-scale multi-compound temporary site camp layout. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 4-7.a will be submitted to the KO/COR prior to proceeding. |
| 4 | **Access/Haul Road Plan** | 4-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve dedicated heavy earthmoving haul roads or temporary access road construction. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 4-7.b will be submitted to the KO/COR prior to proceeding. |
| 5 | **Hearing Conservation Program** | 5-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve sustained occupational noise exposures at or above the 85 dBA 8-hour TWA action level. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 5-7.a will be submitted to the KO/COR prior to proceeding. |
| 6 | **Respiratory Protection Program** | 5-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve mandatory tight-fitting or atmosphere-supplying respirator usage. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 5-7.b will be submitted to the KO/COR prior to proceeding. |
| 7 | **Hazard Communication (HazCom) Program** | 6-7.a | ☑ **Option 1** | Applicable to contracted scope. Complete site-specific plan attached in Appendix 5 per EM 385-1-1 (2024) Para 6-7.a. |
| 8 | **Process Safety Management (PSM) Program** | 6-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve highly hazardous chemicals at or above 29 CFR 1910.119 threshold quantities. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 6-7.b will be submitted to the KO/COR prior to proceeding. |
| 9 | **Lead Compliance Plan** | 6-7.c | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve disturbance or abatement of lead-containing coatings or materials above action level. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 6-7.c will be submitted to the KO/COR prior to proceeding. |
| 10 | **Asbestos Management Plan** | 6-7.d | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve asbestos-containing material (ACM) disturbance or abatement. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 6-7.d will be submitted to the KO/COR prior to proceeding. |

| # | Minimum Plans Required by EM 385-1-1 | 2024 Para. | Selected Option | Justification (Option 2 & 3) / Appendix 5 Location |
|---|---|---|---|---|
| 11 | **Ionizing Radiation Safety Plan** | 6-7.e | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve ionizing radiation sources such as nuclear density gauges or industrial radiography. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 6-7.e will be submitted to the KO/COR prior to proceeding. |
| 12 | **Radiofrequency Plan** | 6-7.e | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve active high-power RF transmitter or radar antenna exposure zones. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 6-7.e will be submitted to the KO/COR prior to proceeding. |
| 13 | **Abrasive Blasting Plan** | 6-7.f | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve pressurized abrasive blasting operations. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 6-7.f will be submitted to the KO/COR prior to proceeding. |
| 14 | **Thermal Stress Management Plan** | 6-7.g | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve sustained work in extreme heat or cold thermal stress conditions. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 6-7.g will be submitted to the KO/COR prior to proceeding. |
| 15 | **Mold Remediation Plan** | 6-7.h | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve fungal or mold remediation activities. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 6-7.h will be submitted to the KO/COR prior to proceeding. |
| 16 | **Silica Compliance Plan** | 6-7.i | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve cutting, grinding, milling, or jackhammering of crystalline silica-bearing concrete or masonry. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 6-7.i will be submitted to the KO/COR prior to proceeding. |
| 17 | **Fatigue Management Plan** | 6-7.j | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve extended shift schedules exceeding standard work-rest fatigue thresholds. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 6-7.j will be submitted to the KO/COR prior to proceeding. |
| 18 | **Night Operations Lighting Plan** | 7-7 | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve nighttime construction or low-light shift operations. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 7-7 will be submitted to the KO/COR prior to proceeding. |
| 19 | **Traffic Control Plan** | 8-7 | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve lane closures or work impacting public or private vehicular roadways. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 8-7 will be submitted to the KO/COR prior to proceeding. |
| 20 | **Fire Prevention Plan** | 9-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve elevated fire hazards, fuel dispensing, or NFPA 241 building construction fire risk. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 9-7.a will be submitted to the KO/COR prior to proceeding. |

| # | Minimum Plans Required by EM 385-1-1 | 2024 Para. | Selected Option | Justification (Option 2 & 3) / Appendix 5 Location |
|---|---|---|---|---|
| 21 | **Wildland Fire Management Plan** | 9-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve wildland or prescribed burn fire management zones. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 9-7.b will be submitted to the KO/COR prior to proceeding. |
| 22 | **Housekeeping Plan (Welding and Cutting)** | 10-7 | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve welding, torch cutting, brazing, or hot work generating toxic fumes or slag. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 10-7 will be submitted to the KO/COR prior to proceeding. |
| 23 | **Electrical Safety Plan** | 11-7.a | ☑ **Option 1** | Applicable to contracted scope. Complete site-specific plan attached in Appendix 5 per EM 385-1-1 (2024) Para 11-7.a. |
| 24 | **Assured Equipment Grounding Conductor Program** | 11-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve temporary wiring without GFCI protection requiring an AEGCP alternative. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 11-7.b will be submitted to the KO/COR prior to proceeding. |
| 25 | **Site-Specific Energy Control Plan** | 12-7.a | ☑ **Option 1** | Applicable to contracted scope. Complete site-specific plan attached in Appendix 5 per EM 385-1-1 (2024) Para 12-7.a. |
| 26 | **Standard Lift Plan** | 16-7.a & b | ☑ **Option 2**<br>Due: 2027-01-15 | Specialized subcontractor award and equipment certification for 16-7.a & b are in final procurement; complete plan will be submitted to KO/COR by 2027-01-15 (minimum 14 days before mobilization). |
| 27 | **Standard Lift Plan (Floating Plant)** | 16-7.a & c | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve barge-mounted or floating plant crane hoisting. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 16-7.a & c will be submitted to the KO/COR prior to proceeding. |
| 28 | **Critical Lift Plan** | 16-7.a & d | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve critical crane lifts exceeding 75% rated capacity, dual-crane picks, or personnel baskets. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 16-7.a & d will be submitted to the KO/COR prior to proceeding. |
| 29 | **Pile Driving Plan** | 16-7.a & e | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve impact or vibratory pile driving operations. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 16-7.a & e will be submitted to the KO/COR prior to proceeding. |
| 30 | **Structural Demolition Plan** | 17-7 | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve structural demolition of buildings, load-bearing members, or heavy civil structures. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 17-7 will be submitted to the KO/COR prior to proceeding. |
| 31 | **Soft Demolition Plan** | 17-7 | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve interior non-structural soft demolition activities. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 17-7 will be submitted to the KO/COR prior to proceeding. |

| # | Minimum Plans Required by EM 385-1-1 | 2024 Para. | Selected Option | Justification (Option 2 & 3) / Appendix 5 Location |
|---|---|---|---|---|
| 32 | **Emergency Plan for Marine Activities** | 19-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve waterborne, vessel, dredging, or over-water marine construction activities. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 19-7.a will be submitted to the KO/COR prior to proceeding. |
| 33 | **Severe Weather Plan for Marine Activities** | 19-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve marine vessels, floating plant, or coastal jetty storm sheltering. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 19-7.b will be submitted to the KO/COR prior to proceeding. |
| 34 | **Float Plans** | 19-7.c | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve workboat or marine vessel transit requiring USACE float plans. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 19-7.c will be submitted to the KO/COR prior to proceeding. |
| 35 | **Tow Plans** | 19-7.d | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve marine towing of barges, dredges, or floating pipelines. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 19-7.d will be submitted to the KO/COR prior to proceeding. |
| 36 | **Fall Protection and Prevention Plan** | 21-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve unprotected elevated work at or above 6 feet requiring fall protection systems. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 21-7.a will be submitted to the KO/COR prior to proceeding. |
| 37 | **Rescue Plan** | 21-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve personal fall arrest systems (PFAS) requiring suspended-worker rescue procedures. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 21-7.b will be submitted to the KO/COR prior to proceeding. |
| 38 | **Scaffold Work Plan** | 22-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve erection, modification, or use of supported or suspended scaffolding. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 22-7.b will be submitted to the KO/COR prior to proceeding. |
| 39 | **Rope Access Work Plan** | 23-7 | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve industrial two-rope access climbing operations. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 23-7 will be submitted to the KO/COR prior to proceeding. |
| 40 | **Excavation and Trenching Plan** | 25-7 | ☑ **Option 1** | Applicable to contracted scope. Complete site-specific plan attached in Appendix 5 per EM 385-1-1 (2024) Para 25-7. |
| 41 | **Compressed Air Work Plan** | 26-7.a & b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve pressurized hyperbaric underground compressed air work. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 26-7.a & b will be submitted to the KO/COR prior to proceeding. |
| 42 | **Contingency Response Plan** | 26-7.a & c | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve underground tunneling or shaft construction contingency response. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 26-7.a & c will be submitted to the KO/COR prior to proceeding. |

| # | Minimum Plans Required by EM 385-1-1 | 2024 Para. | Selected Option | Justification (Option 2 & 3) / Appendix 5 Location |
|---|---|---|---|---|
| 43 | **Emergency Rescue Plans and Equipment** | 26-7.a & d | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve underground tunnel or shaft rescue team operations. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 26-7.a & d will be submitted to the KO/COR prior to proceeding. |
| 44 | **Ventilation and Dust Control Plan** | 26-7.a & e | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve underground tunneling mechanical ventilation systems. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 26-7.a & e will be submitted to the KO/COR prior to proceeding. |
| 45 | **Fire Prevention and Protection Plan** | 26-7.a & f | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve underground tunnel or cavern fire protection systems. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 26-7.a & f will be submitted to the KO/COR prior to proceeding. |
| 46 | **Formwork and Shoring Plan** | 27-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve engineered cast-in-place concrete formwork or vertical shoring systems. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 27-7.a will be submitted to the KO/COR prior to proceeding. |
| 47 | **Precast Concrete Plan** | 27-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve precast structural concrete panel erection or tilt-up rigging. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 27-7.b will be submitted to the KO/COR prior to proceeding. |
| 48 | **Masonry Erection Plan** | 27-7.c | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve structural masonry wall erection exceeding 8 feet requiring bracing. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 27-7.c will be submitted to the KO/COR prior to proceeding. |
| 49 | **Steel Erection Plan** | 28-7 | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve structural steel framing, column, beam, joist, or decking erection. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 28-7 will be submitted to the KO/COR prior to proceeding. |
| 50 | **Explosive Site Safety Plan** | 29-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve storage, handling, or detonation of commercial explosives. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 29-7.a will be submitted to the KO/COR prior to proceeding. |
| 51 | **Master Blasting Plan** | 29-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve controlled rock or structural blasting operations. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 29-7.b will be submitted to the KO/COR prior to proceeding. |
| 52 | **Vibration Monitoring Plan** | 29-7.c | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve blasting-induced ground vibration seismograph monitoring. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 29-7.c will be submitted to the KO/COR prior to proceeding. |

| # | Minimum Plans Required by EM 385-1-1 | 2024 Para. | Selected Option | Justification (Option 2 & 3) / Appendix 5 Location |
|---|---|---|---|---|
| 53 | **Safe Practices Plan** | 30-7.a & b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve commercial surface-supplied or SCUBA diving operations. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 30-7.a & b will be submitted to the KO/COR prior to proceeding. |
| 54 | **Dive Operations Plan** | 30-7.a & c | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve underwater commercial diving tasks. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 30-7.a & c will be submitted to the KO/COR prior to proceeding. |
| 55 | **Emergency Management Manual** | 30-7.a & d | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve hyperbaric diving casualty emergency management. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 30-7.a & d will be submitted to the KO/COR prior to proceeding. |
| 56 | **Snorkeling Plan** | 30-7.a & e | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve scientific or inspection snorkeling in water bodies. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 30-7.a & e will be submitted to the KO/COR prior to proceeding. |
| 57 | **Tree Maintenance and Removal Plan** | 31-7 | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve arboricultural tree felling, climbing, or heavy timber clearing. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 31-7 will be submitted to the KO/COR prior to proceeding. |
| 58 | **Construction Safety and Phasing Plan** | 32-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve active airfield or airport movement area construction phasing. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 32-7.a will be submitted to the KO/COR prior to proceeding. |
| 59 | **Safety Plan Compliance Document** | 32-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve FAA/DoD airfield safety compliance documentation. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 32-7.b will be submitted to the KO/COR prior to proceeding. |
| 60 | **Aviation Pre-Accident Plan** | 33-7.f | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve contracted helicopter or fixed-wing aviation operations. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 33-7.f will be submitted to the KO/COR prior to proceeding. |
| 61 | **Confined Space Plan** | 34-7.b & c | ☑ **Option 1** | Applicable to contracted scope. Complete site-specific plan attached in Appendix 5 per EM 385-1-1 (2024) Para 34-7.b & c. |
| 62 | **Housekeeping Plan (Sanitation)** | 35-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve specialized sanitation housekeeping for toxic dusts, mists, or remote camp hygiene. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 35-7.a will be submitted to the KO/COR prior to proceeding. |
| 63 | **Extermination Plan** | 35-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve pest, rodent, or vector extermination operations. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 35-7.b will be submitted to the KO/COR prior to proceeding. |

| # | Minimum Plans Required by EM 385-1-1 | 2024 Para. | Selected Option | Justification (Option 2 & 3) / Appendix 5 Location |
|---|---|---|---|---|
| 64 | **Site Safety and Health Plan** | 36-7.a | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve hazardous, toxic, and radioactive waste (HTRW) remediation under 29 CFR 1910.120. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 36-7.a will be submitted to the KO/COR prior to proceeding. |
| 65 | **Comprehensive Work Plan** | 36-7.b | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve HTRW site characterization and comprehensive remediation work plans. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 36-7.b will be submitted to the KO/COR prior to proceeding. |
| 66 | **Emergency Response Plan** | 36-7.c | ☑ **Option 3** | Not applicable to Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002): the contracted scope of work does not involve HTRW hazardous substance emergency response operations. If field conditions change, work will pause and a compliant plan per EM 385-1-1 (2024) Para 36-7.c will be submitted to the KO/COR prior to proceeding. |

## PART 12: PROJECT SITE COORDINATION

Prime Contractor KASER MECHANICAL LLC coordinates daily work sequencing, laydown areas, utility outages, emergency access lanes, and multi-trade hazard interfaces at Fort Mifflin, Philadelphia, PA 19153 through daily foreman huddles and weekly USACE progress meetings. Emergency medical transport routes to St. Mary Regional Emergency Medical Center (Fort Mifflin) ((800) 555-0199) remain unobstructed at all times and are posted on the SOH bulletin board.

## PART 13: REQUIRED APPENDICES (INDICATE IF ATTACHED TO THIS PLAN)

| Appendix | Required Submittal Item | Attached |
|---|---|---|
| **Appendix 1** | Project Map & Nearest 24/7 Emergency Hospital Route | ☑ **YES** ☐ **NO** |
| **Appendix 2** | Subcontractor / Suppliers Listing | ☑ **YES** ☐ **NO** |
| **Appendix 3** | Personnel Qualifications & ENG Form 6282 SSHO Designation Letter | ☑ **YES** ☐ **NO** |
| **Appendix 4** | Activity Hazard Analyses (2024 ENG Form 6206 with Energy Wheel) | ☑ **YES** ☐ **NO** |
| **Appendix 5** | Site-Specific Plans and Procedures (5 Option 1 Plans) | ☑ **YES** ☐ **NO** |
| **Appendix 6** | Additional Plans / Procedures & ENG Form 3394 | ☑ **YES** ☐ **NO** |

## APPENDIX 1: PROJECT MAP & EMERGENCY HOSPITAL ROUTE



**[A] PROJECT JOBSITE**
Fort Mifflin, Philadelphia, PA 19153

**5.8 mi · ~12 min**
PRIMARY EMS CORRIDOR

**[H] 24/7 EMERGENCY ROOM**
**St. Mary Regional Emergency Medical Center (Fort Mifflin)**
ER Tel: (800) 555-0199 · CALL 911 FIRST

| JOBSITE LOCATION | NEAREST 24/7 EMERGENCY HOSPITAL |
|---|---|
| Fort Mifflin, Philadelphia, PA 19153 | **St. Mary Regional Emergency Medical Center (Fort Mifflin) (5.8 mi · 12 min)** |
| **HOSPITAL ADDRESS** | **EMERGENCY DEPARTMENT TELEPHONE** |
| 100 Medical Center Blvd, Fort Mifflin, Philadelphia, PA 19153 | **(800) 555-0199** |

**TURN-BY-TURN EMERGENCY DRIVING DIRECTIONS**

1. Depart Fort Mifflin, Philadelphia, PA 19153 jobsite entrance heading toward main state route.
2. Follow emergency route corridor 5.2 miles to Medical Center Blvd.
3. Turn right into 24/7 Emergency Department Trauma entrance.

| Emergency Contact / Agency | Telephone |
|---|---|
| Emergency Fire / EMS / Police | **911** |
| Nearest ER — St. Mary Regional Emergency Medical Center (Fort Mifflin) | **(800) 555-0199** |
| Primary SSHO — Robert Alvarez, CHST | **(555) 234-8810** |
| Project Manager — Jordan Vance, PE | **(555) 234-8820** |
| National Response Center (Spills) | **(800) 424-8802** |

## APPENDIX 2: SUBCONTRACTORS & SUPPLIERS

| Company Name | Trade / Contract Scope | Point of Contact | Phone |
|---|---|---|---|
| KASER MECHANICAL LLC (Prime Self-Perform) | General Construction & Safety Oversight | Jordan Vance, PE | (555) 234-8820 |

## APPENDIX 3: SITE SAFETY & HEALTH OFFICER (SSHO) DESIGNATION LETTER

ENG FORM 6282, AUG 2024
EM 385-1-1 PARA 2-8.b(1)

| | |
|---|---|
| **CONTRACT NUMBER**<br>**W912BU27CA002** | **PROJECT NAME**<br>**Fort Mifflin Sewer Lift Replacement Project** |
| **DESIGNATED PRIMARY SSHO**<br>**Robert Alvarez, CHST (Level 1)** | **SSHO CONTACT**<br>(555) 234-8810 · ralvarez@contractor-safety.us |
| **ALTERNATE SSHO(S)**<br>Sarah Jenkins, OSHA 30 | **CORPORATE SAFETY OFFICIAL**<br>Patricia Reynolds, CSP |

**DESIGNATED SSHO AUTHORITIES & RESPONSIBILITIES (EM 385-1-1 PARA 2-8.b)**

- Maintain full-time physical presence at the project site during all active work operations (EM 385-1-1 Para 2-8.b).
- Conduct and document daily SOH inspections, manage the Deficiency Tracking Log, and verify AHA compliance.
- Exercise independent Stop-Work Authority for any imminent danger or EM 385-1-1 non-compliance.
- Deliver site-specific safety orientations, verify CPR/First Aid coverage, and coordinate KO/COR incident notifications.

SSHO resume, OSHA 30-Hour card, EM 385-1-1 40-Hour training certificate, and current CPR/First Aid cards for Robert Alvarez, CHST & Sarah Jenkins, OSHA 30 are compiled directly behind ENG Form 6282 in Appendix 3.

| **Corporate Safety Official Signature** | | **Designated SSHO Acceptance Signature** | |
|---|---|---|---|
| **Patricia Reynolds, CSP** | | **Robert Alvarez, CHST** | |
| Signature | Date | Signature | Date |

| **AHA-001: Utility Trenching, Excavation Shoring & Backfill — Fort Mifflin Sewer Lift Replacement Project**<br>DFOW: 31 23 00 — Excavation & Trenching · Contract: W912BU27CA002 | **OVERALL RAC: H** |
|---|---|
| **2024 Energy Wheel Hazard Sources:** Gravity \| Mechanical \| Motion \| Electrical \| Pressure | |

| Job Step | Hazards | Controls (EM 385-1-1 2024) | RAC |
|---|---|---|---|
| **1.** Obtain 811/base dig permit, pothole marked utilities, and verify underground shutoffs | Buried electrical electrocution, gas line rupture/explosion, water main flooding | Secure signed dig permit per Para 25-8.f, hand-dig or vacuum-excavate within 24 inches of utility marks, confirm emergency shutoff valve locations. | H |
| **2.** Excavate trench, classify soil (Table 25-2), and set spoil piles at least 2 ft back | Cave-in engulfment, excavator swing struck-by, spoil collapse onto trench wall | Default to Type C sloping (1.5H:1V) or install tabulated trench box before any entry >= 5 ft (Para 25-7), barricade excavator swing radius, keep spoil >= 2 ft from edge. | H |
| **3.** Place access ladder within 25 ft travel and monitor trench atmosphere when near utilities | Oxygen deficiency, H2S/methane accumulation, fall entering or exiting trench | Secure ladder extending 3 ft above landing within 25 ft lateral travel (Para 25-8.h), test O2/LEL/CO/H2S prior to entry near sewers or landfills. | M |
| **4.** Backfill in lifts, compact soil, and extract trench protective system sequentially | Compactor vibration/crush hazards, trench wall collapse during box pull | Clear all personnel from trench before pulling shoring box, maintain visual contact with operator during backfill and compaction. | M |

| Equipment to Be Used | Inspection Requirements | Training Requirements |
|---|---|---|
| Engineered Trench Box / Hydraulic Shores; Extension Access Ladder; Calibrated 4-Gas Meter; ANSI Class 2 Vests; Utility Marking Flags | Daily and post-rain Excavation Competent Person inspection logged prior to worker entry (EM 385-1-1 Para 25-7.e). | Excavation Competent Person (Para 25-3); Underground Utility Damage Prevention; Trench Rescue Briefing (Para 25-7.i) |

| **AHA-002: Wet Well & Permit-Required Confined Space (PRCS) Entry — Fort Mifflin Sewer Lift Replacement Project**<br>DFOW: 33 32 00 — Permit-Required Confined Space / Wet Well Entry · Contract: W912BU27CA002 | **OVERALL RAC: H** |
|---|---|
| **2024 Energy Wheel Hazard Sources:** Chemical \| Biological \| Gravity \| Mechanical \| Electrical | |

| Job Step | Hazards | Controls (EM 385-1-1 2024) | RAC |
|---|---|---|---|
| **1.** Isolate influent flow/pumps (LOTO), ventilate space, and perform pre-entry atmospheric testing | Engulfment by sewage surge, toxic H2S/CO gas, explosive LEL atmosphere, oxygen deficiency | Plug/bypass influent line, apply LOTO to lift pumps (Para 12-7.a), purge space with forced-air blower, verify O2 19.5%-23.5%, LEL < 10%, H2S < 10 ppm, CO < 25 ppm. | **H** |
| **2.** Issue written PRCS Entry Permit, rig retrieval tripod, and station dedicated Attendant | Delayed rescue during collapse, unauthorized entry, communication loss | Position inspected tripod/winch over hatch, connect entrant dorsal D-ring to retrieval line, keep dedicated Attendant topside with continuous radio/voice contact (Para 34-7.b). | **H** |
| **3.** Execute pump/piping removal and servicing inside wet well with continuous air monitoring | Sudden gas release from disturbed sludge, slip on wet ladder, biological contamination | Clip personal 4-gas monitor to breathing zone, wear Tyvek/nitrile gloves and face shield, evacuate immediately if any alarm sounds or conditions change (Para 34-7.c). | **H** |
| **4.** Exit space, account for all personnel/tools, close PRCS permit, and decontaminate gear | Left-behind entrant, pathogen cross-contamination, open hatch fall hazard | Verify entrant headcount against permit log, reinstall bolted hatch cover immediately, wash hands/tools before eating or drinking. | **M** |

| Equipment to Be Used | Inspection Requirements | Training Requirements |
|---|---|---|
| Calibrated 4-Gas Meter (O2/LEL/CO/H2S); Forced-Air Ventilation Blower & Duct; Tripod/Davit Non-Entry Retrieval Winch; Full-Body Retrieval Harness; Intrinsic-Safe Radios | Bump-test 4-gas meter before every entry; Entry Supervisor signs PRCS permit and logs continuous readings (Para 34-7.b). | PRCS Entry Supervisor, Attendant & Entrant Training (Para 34-3); Non-Entry Retrieval Drill; Bloodborne/Sewage Hygiene Briefing |

| **AHA-003: Equipment Lockout/Tagout (LOTO) & Zero-Energy Verification — Fort Mifflin Sewer Lift Replacement Project**<br>DFOW: 26 05 00 — Hazardous Energy Control (LOTO) · Contract: W912BU27CA002 | **OVERALL RAC: H** |
|---|---|
| **2024 Energy Wheel Hazard Sources:** Electrical \| Mechanical \| Pressure \| Temperature | |

| Job Step | Hazards | Controls (EM 385-1-1 2024) | RAC |
|---|---|---|---|
| **1.** Notify affected USACE facility operators and review equipment-specific Hazardous Isolation Procedure (HIP) | Unexpected facility outage, missed secondary feed or backfeed source | Coordinate outage window with COR and facility engineer, trace all electrical, hydraulic, pneumatic, and gravity energy sources on current HIP (Para 12-7.a). | **M** |
| **2.** De-energize disconnects, close isolation valves, and apply personal locks/tags on every isolation point | Arc flash during switch operation, improper lock transfer across shifts | Stand to hinged side while throwing disconnect wearing arc-rated PPE, apply individual lock and photo/name danger tag (one lock per worker; use group lockbox for crews). | **H** |
| **3.** Bleed stored energy and perform Live-Dead-Live zero-voltage and try-start verification | Hidden capacitor charge, trapped line pressure, faulty meter false-zero reading | Bleed pressure gauges to zero, test voltage meter on known live source, test de-energized conductors phase-to-phase and phase-to-ground, re-verify meter on live source (Para 11-8.d). | **H** |
| **4.** Clear tools/personnel, remove personal locks in order, and perform controlled re-energization | Equipment start-up with worker in pinch zone, short circuit upon re-energizing | Account for all crew and guards replaced, each worker removes only their own lock, notify facility operator prior to restoring power. | **M** |

| Equipment to Be Used | Inspection Requirements | Training Requirements |
|---|---|---|
| Personal Keyed Red LOTO Padlocks & Danger Tags; Group Lockbox & Multi-Lock Hasps; CAT III/IV Calibrated Voltage Tester; Arc-Rated PPE Kit; Insulated Voltage-Rated Gloves | Verify HIP index accuracy and daily LOTO log inspection per EM 385-1-1 Para 12-7.a(11) & Para 12-5. | Authorized LOTO Employee Training (Para 12-3); NFPA 70E Qualified Electrical Person (Para 11-3); Shock Safe-Release Annual Refresher |

| AHA-004: CIPP Sewer Lining, Resin Curing & Bypass Pumping — Fort Mifflin Sewer Lift Replacement Project<br>DFOW: 33 01 30 — Cured-In-Place Pipe (CIPP) Sewer Rehabilitation · Contract: W912BU27CA002 | OVERALL RAC: H |
|---|---|
| **2024 Energy Wheel Hazard Sources:** Chemical \| Temperature \| Pressure \| Motion \| Biological | |

| Job Step | Hazards | Controls (EM 385-1-1 2024) | RAC |
|---|---|---|---|
| **1.** Establish roadway traffic control zone and deploy sewer bypass pumping around active segment | Public vehicle struck-by, sewage spill from hose separation, trip hazard over bypass hoses | Deploy MUTCD lane closure taper and certified flaggers (Para 8-7), cam-lock and whip-check all bypass hoses, install ADA/vehicle hose ramps. | H |
| **2.** Clean sewer main with hydro-jetter and inspect host pipe via CCTV crawler | High-pressure water jet laceration, flying debris from manhole, H2S gas release | Keep hands away from jet nozzle, throttle pressure down before pulling nozzle from pipe, ventilate manhole and monitor 4-gas levels continuously. | M |
| **3.** Invert resin-impregnated felt tube and cure via steam/hot water/UV system | Styrene vapor overexposure, steam scald burns, pressurized manifold burst | Enforce organic vapor respirator zone per Para 5-7.b when styrene exceeds action level, isolate curing manifold exclusion zone, wear thermal gloves and face shield. | H |
| **4.** Cool liner, reinstate lateral connections via robotic cutter, and demobilize bypass | Residual hot water/condensate burns, styrene odor migration into adjacent buildings | Verify condensate temperature < 120 deg F before discharge, flush laterals, remove plugs in sequence, restore roadway pavement and signage. | M |

| Equipment to Be Used | Inspection Requirements | Training Requirements |
|---|---|---|
| Organic Vapor APR Respirators (NIOSH); PID/Styrene & 4-Gas Air Monitors; Bypass Pump & Hose Ramps; Thermal Burn Gloves & Face Shield; MUTCD Traffic Cones & Flagger Signs | Verify styrene vapor levels downwind and at manholes; inspect steam/hot-water curing hoses and pressure relief valves before pressurizing. | Respiratory Protection & Fit Test (Para 5-7.b); HazCom Styrene/Resin SDS Training (Para 6-3.b); MUTCD Traffic Control (Para 8-3) |

## APPENDIX 5: SITE-SPECIFIC PLANS AND PROCEDURES (5 ATTACHED OPTION 1 PLANS)

## APPENDIX 5.1: Hazard Communication (HazCom) Program — EM 385-1-1 (2024) PARA 6-7.a

| | |
|---|---|
| **Regulatory Authority:** EM 385-1-1 (2024) Para 6-7.a and 29 CFR 1910.1200 | **Prepared By:** Competent Person / SSHO (Robert Alvarez, CHST) |

**Project-Specific Scope & Applicability (Para 6-7.a)**

This Hazard Communication (HazCom) Program is prepared specifically for Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002, W2SD ENDIST PHILADELPHIA) located at Fort Mifflin, Philadelphia, PA 19153. Prime Contractor KASER MECHANICAL LLC will implement all controls required under EM 385-1-1 (2024) Para 6-7.a and 29 CFR 1910.1200 across the defined work scope: Replacement of existing sewer lift station pumps, wet well entry, underground utility trenching/excavation, electrical disconnect and LOTO, and re-commissioning at Fort Mifflin.

**6-7.a(1) — Hazardous Chemical Inventory & Site Storage Map**

Maintain a current site-specific inventory of all hazardous or toxic agents (fuels, sealants, adhesives, curing resins, glycol, lubricants) detailing project usage, approximate onsite quantities (gallons/pounds), and an attached site map marking storage areas for emergency responders. Field verification on Fort Mifflin Sewer Lift Replacement Project is led by Primary SSHO Robert Alvarez, CHST during Preparatory Phase reviews prior to authorizing crew mobilization.

**6-7.a(2) — Container Labeling Procedures**

Ensure every manufacturer and secondary workplace container bears intact GHS labels with product identifier, signal word (Danger/Warning), hazard statements, pictograms, precautionary statements, and supplier contact information. All inspection records, permits, and control checklists for 6-7.a(2) will be maintained in the onsite SOH binder and uploaded to USACE RMS under Contract W912BU27CA002.

**6-7.a(3) — Safety Data Sheet (SDS) Management**

Maintain an indexed physical SDS binder and digital backup at the SSHO trailer accessible to all personnel and subcontractors prior to chemical arrival; enforce SDS hazard controls and disposal rules. Subcontractor foremen and affected craft workers must review these requirements during pre-shift AHA briefings conducted by Robert Alvarez, CHST before work commences.

**6-7.a(4) — Employee Information and Training (Para 6-3.b)**

Conduct documented HazCom orientation per para 6-3.b covering chemical hazards, SDS retrieval, GHS pictograms, spill response, and PPE prior to initial assignment or introduction of new chemicals. Project Manager Jordan Vance, PE and QC Manager Elena Morales, CQM-C will audit ongoing conformance during Three-Phase Control inspections and enforce immediate abatement of any deviation.

## APPENDIX 5.2: Electrical Safety Plan — EM 385-1-1 (2024) PARA 11-7.a

| | |
|---|---|
| **Regulatory Authority:** EM 385-1-1 (2024) Para 11-7.a, NFPA 70E, and UFC 3-560-01 | **Prepared By:** Qualified Electrical Person (QP) / SSHO (Robert Alvarez, CHST) |

**Project-Specific Scope & Applicability (Para 11-7.a)**

This Electrical Safety Plan is prepared specifically for Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002, W2SD ENDIST PHILADELPHIA) located at Fort Mifflin, Philadelphia, PA 19153. Prime Contractor KASER MECHANICAL LLC will implement all controls required under EM 385-1-1 (2024) Para 11-7.a, NFPA 70E, and UFC 3-560-01 across the defined work scope: Replacement of existing sewer lift station pumps, wet well entry, underground utility trenching/excavation, electrical disconnect and LOTO, and re-commissioning at Fort Mifflin.

**11-7.a(1)-(2) — Roles, Responsibilities (QP) & Qualified/Unqualified Training (Para 11-3)**

Designate Qualified Electrical Persons (QPs) with documented licensing/NFPA 70E training per para 11-3, maintain training provider records, and restrict unqualified workers outside limited approach boundaries. Field verification on Fort Mifflin Sewer Lift Replacement Project is led by Primary SSHO Robert Alvarez, CHST during Preparatory Phase reviews prior to authorizing crew mobilization.

**11-7.a(3)-(4) — Electrical Emergency Response, Safe Release & Hazard Awareness**

Establish shock/arc flash rescue plan with insulated rescue hooks, train exposed workers and responders annually in safe release methods per para 11-3.d, and brief crews on shock, arc flash, and blast boundaries. All inspection records, permits, and control checklists for 11-7.a(3)-(4) will be maintained in the onsite SOH binder and uploaded to USACE RMS under Contract W912BU27CA002.

**11-7.a(5)-(7) — Job Safety Planning (AHA/EEWP), NFPA 70E Annex E Principles & Controls**

Develop electrical AHAs per paras 1-6, 2-6, and 11-6; require Energized Electrical Work Permits (EEWP) per para 11-8.e(4) only when de-energizing is infeasible; treat every conductor as energized until absence of voltage is verified per para 11-8.d (Live-Dead-Live). Subcontractor foremen and affected craft workers must review these requirements during pre-shift AHA briefings conducted by Robert Alvarez, CHST before work commences.

**11-7.a(8)-(13) — Risk Assessment Hierarchy of Controls, Equipment Inspection, Maintenance Condition, Incident Investigation & Auditing**

Apply the 6-level Hierarchy of Controls (Elimination, Substitution, Engineering, Awareness, Administrative, PPE); inspect new/modified installations before energizing; evaluate equipment maintenance condition; investigate near misses; conduct annual field work audits and 3-year program audits. Project Manager Jordan Vance, PE and QC Manager Elena Morales, CQM-C will audit ongoing conformance during Three-Phase Control inspections and enforce immediate abatement of any deviation.

**11-7.a(14) — Lithium-Containing Batteries Inventory, Hazard Analysis, Training & Storage**

Inventory all primary and secondary lithium-based batteries onsite (quantities, charging/storage locations, labeling, fire protection) with a location map submitted to KO/COR for fire officials; complete storage/charging hazard analysis, para 11-3.e training, and NFPA/NRTL-compliant charging containers. Equipment certifications, calibration logs, and Competent/Qualified Person credentials supporting this section will be verified onsite by Robert Alvarez, CHST prior to task startup.

## APPENDIX 5.3: Site-Specific Energy Control Plan — EM 385-1-1 (2024) PARA 12-7.a

| | |
|---|---|
| **Regulatory Authority:** EM 385-1-1 (2024) Para 12-7.a, Figure 12-1, ANSI Z244.4, and NFPA 70E | **Prepared By:** Authorized LOTO Coordinator / SSHO (Robert Alvarez, CHST) |

**Project-Specific Scope & Applicability (Para 12-7.a)**

This Site-Specific Energy Control Plan is prepared specifically for Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002, W2SD ENDIST PHILADELPHIA) located at Fort Mifflin, Philadelphia, PA 19153. Prime Contractor KASER MECHANICAL LLC will implement all controls required under EM 385-1-1 (2024) Para 12-7.a, Figure 12-1, ANSI Z244.4, and NFPA 70E across the defined work scope: Replacement of existing sewer lift station pumps, wet well entry, underground utility trenching/excavation, electrical disconnect and LOTO, and re-commissioning at Fort Mifflin.

**12-7.a(1)-(4) — Hazardous Energy Control (HEC) & Equipment-Specific HIP Index**

Establish procedures for authoring/revising equipment-specific Hazardous Isolation Procedures (HIPs) for new or modified machinery/utilities, maintain a dated HIP inventory/validation index, and identify shared-HIP equipment energy differences. Field verification on Fort Mifflin Sewer Lift Replacement Project is led by Primary SSHO Robert Alvarez, CHST during Preparatory Phase reviews prior to authorizing crew mobilization.

**12-7.a(5)-(7) — Site Coordination, Lock/Tag Application & Temporary Protective Grounds**

Coordinate all LOTO/HEC isolations across prime, subcontractors, USACE facility operators, and visitors; define individual lock/tag ownership, group lockbox transfer, and accounting for temporary protective grounds. All inspection records, permits, and control checklists for 12-7.a(5)-(7) will be maintained in the onsite SOH binder and uploaded to USACE RMS under Contract W912BU27CA002.

**12-7.a(8)-(10) — Zero-Energy Verification Testing, Shift Transfer & Emergency Lock Removal**

Require documented zero-energy verification (try-start, pressure bleed, Live-Dead-Live voltage check) before work; enforce shift-change lock continuity and formal SSHO/PM emergency lock removal procedures. Subcontractor foremen and affected craft workers must review these requirements during pre-shift AHA briefings conducted by Robert Alvarez, CHST before work commences.

**12-7.a(11)-(12) — Daily/Periodic HIP Inspections (Para 12-5) & Enforcement**

Perform and log daily and periodic LOTO/HIP compliance inspections (system, date, participants, deficiencies) per para 12-5 and enforce immediate stop-work discipline for any lock/tag violation. Project Manager Jordan Vance, PE and QC Manager Elena Morales, CQM-C will audit ongoing conformance during Three-Phase Control inspections and enforce immediate abatement of any deviation.

## APPENDIX 5.4: Excavation and Trenching Plan — EM 385-1-1 (2024) PARA 25-7

| | |
|---|---|
| **Regulatory Authority:** EM 385-1-1 (2024) Para 25-7 (25-7.a through 25-7.i) | **Prepared By:** Competent Person (Excavations) / RPE if > 20 ft depth (Robert Alvarez, CHST) |

**Project-Specific Scope & Applicability (Para 25-7)**

This Excavation and Trenching Plan is prepared specifically for Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002, W2SD ENDIST PHILADELPHIA) located at Fort Mifflin, Philadelphia, PA 19153. Prime Contractor KASER MECHANICAL LLC will implement all controls required under EM 385-1-1 (2024) Para 25-7 (25-7.a through 25-7.i) across the defined work scope: Replacement of existing sewer lift station pumps, wet well entry, underground utility trenching/excavation, electrical disconnect and LOTO, and re-commissioning at Fort Mifflin.

**25-7.a-b — Excavation AHA (Para 25-6) & Site Diagram with Utility Shutoffs**

Attach task-specific excavation AHA per para 25-6 and a site sketch marking trench limits, adjacent structures, spoil setback (>= 2 ft), and emergency utility shutoff locations. Field verification on Fort Mifflin Sewer Lift Replacement Project is led by Primary SSHO Robert Alvarez, CHST during Preparatory Phase reviews prior to authorizing crew mobilization.

**25-7.c — Soil Classification (Table 25-2), Shoring/Sloping, Spoil Management, Access, Utilities, Traffic & Atmospheric Testing**

Perform visual and manual soil tests (Table 25-2; default Type C unless verified), specify trench boxes/sloping/RPE design (> 20 ft), manage excavated spoil, provide ladders within 25 ft travel (para 25-8.h), protect overhead/buried utilities, coordinate traffic control, and conduct atmospheric testing where hazardous atmospheres may exist. All inspection records, permits, and control checklists for 25-7.c will be maintained in the onsite SOH binder and uploaded to USACE RMS under Contract W912BU27CA002.

**25-7.d-g — Personnel Qualifications, Daily Inspections, Dig Permits (Para 25-8.f) & UXO Clearance**

Assign Excavation CP (paras 18-3, 25-3, 34-3), log daily and post-rain inspections, secure 811/base dig permits prior to breaking ground (para 25-8.f), and confirm UXO clearance where applicable (para 25-8.g). Subcontractor foremen and affected craft workers must review these requirements during pre-shift AHA briefings conducted by Robert Alvarez, CHST before work commences.

**25-7.h-i — Cofferdam Controlled Flooding (if applicable) & Cave-In Rescue Procedures**

Address controlled flooding if cofferdams apply; detail immediate cave-in self/assisted rescue equipment, local Fire/EMS trench rescue contact protocols, and MOU/MOA verification with local responders. Project Manager Jordan Vance, PE and QC Manager Elena Morales, CQM-C will audit ongoing conformance during Three-Phase Control inspections and enforce immediate abatement of any deviation.

## APPENDIX 5.5: Confined Space Plan — EM 385-1-1 (2024) PARA 34-7.b & c

| | |
|---|---|
| **Regulatory Authority:** EM 385-1-1 (2024) Para 34-7.b & c and 29 CFR 1926 Subpart AA | **Prepared By:** Entry Supervisor / Competent Person (Robert Alvarez, CHST) |

**Project-Specific Scope & Applicability (Para 34-7.b & c)**

This Confined Space Plan is prepared specifically for Fort Mifflin Sewer Lift Replacement Project (Contract W912BU27CA002, W2SD ENDIST PHILADELPHIA) located at Fort Mifflin, Philadelphia, PA 19153. Prime Contractor KASER MECHANICAL LLC will implement all controls required under EM 385-1-1 (2024) Para 34-7.b & c and 29 CFR 1926 Subpart AA across the defined work scope: Replacement of existing sewer lift station pumps, wet well entry, underground utility trenching/excavation, electrical disconnect and LOTO, and re-commissioning at Fort Mifflin.

**34-7.b(1)-(4) — Activity Description, Permit Process, Roles/Qualifications & Inspection Oversight**

Define permit-required confined space (PRCS) entry scope, written entry permit authorization workflow, Entry Supervisor/Attendant/Entrant roles and training qualifications, and continuous supervisory oversight. Field verification on Fort Mifflin Sewer Lift Replacement Project is led by Primary SSHO Robert Alvarez, CHST during Preparatory Phase reviews prior to authorizing crew mobilization.

**34-7.b(5)-(7) — Entry Equipment, 4-Gas Atmospheric Monitoring & Communications**

Specify tripod/davit retrieval systems, forced-air ventilation blowers, calibrated 4-gas meters (O2 19.5%-23.5%, LEL < 10%, CO, H2S) with pre-entry and continuous logging, and dedicated entrant-attendant voice/radio communications. All inspection records, permits, and control checklists for 34-7.b(5)-(7) will be maintained in the onsite SOH binder and uploaded to USACE RMS under Contract W912BU27CA002.

**34-7.b(8)-(10) — Confined Space Inventory, Labeling & Rescue Plan**

Maintain a project Confined Space Inventory, post "DANGER — PERMIT-REQUIRED CONFINED SPACE" signage, and maintain non-entry retrieval + verified rescue service procedures matching anticipated hazard levels. Subcontractor foremen and affected craft workers must review these requirements during pre-shift AHA briefings conducted by Robert Alvarez, CHST before work commences.

**34-7.c(1)-(6) — Mandatory Stop-Work, Update & Resubmittal Triggers**

Immediately stop all confined space entry, update this plan, and resubmit to KO/COR for acceptance if: (1) additional hazards appear, (2) space configuration/contents change, (3) assigned duties change, (4) evacuation occurs or hazards increase, (5) a new confined space is discovered/created, or (6) an accident or near miss occurs. Project Manager Jordan Vance, PE and QC Manager Elena Morales, CQM-C will audit ongoing conformance during Three-Phase Control inspections and enforce immediate abatement of any deviation.

## APPENDIX 6: ADDITIONAL PLANS / PROCEDURES & ENG FORM 3394

USACE ENG Form 3394 (Safety & Occupational Health Mishap Notification & Investigation) blank reporting template and monthly exposure man-hour log included for immediate field deployment.

- ENG Form 3394 — Mishap Notification & Investigation Form Reference
- Daily SOH Inspection & Deficiency Tracking Log
- Weekly Toolbox Safety Meeting Sign-In Roster
- Hot Work / Confined Space / Excavation Pre-Task Permit Checklist

Prepared for W2SD ENDIST PHILADELPHIA RMS electronic submittal (Contract W912BU27CA002). Blank field logs and reporting forms in this appendix are staged at the onsite SSHO trailer for active project use.

## FIELD FORM 6A: WEEKLY TOOLBOX SAFETY MEETING SIGN-IN ROSTER (EM 385-1-1 PARA 2-3)

| CONTRACT NUMBER | MEETING DATE & TIME | PRESENTER (SSHO / FOREMAN) |
|---|---|---|
| W912BU27CA002 | | Robert Alvarez, CHST |

SAFETY TOPIC / APPLICABLE AHA & DFOW DISCUSSED

| # | Employee Printed Name | Company / Trade | Signature |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |
| 5 | | | |
| 6 | | | |

## FIELD FORM 6B: DAILY SOH INSPECTION & DEFICIENCY TRACKING LOG (EM 385-1-1 PARA 2-5.b)

| Date | Location / DFOW | Deficiency Observed | RAC | Corrective Action & Owner | Closed / Init. |
|---|---|---|---|---|---|
| | | | | | |
| | | | | | |
| | | | | | |
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