

# REMEDIAL ACTION WORK PLAN

FOR

**5627 NIAGARA FALLS BOULEVARD  
CITY OF NIAGARA FALLS  
NIAGARA COUNTY, NEW YORK**

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**TABLE OF CONTENTS**

<b>EXECUTIVE SUMMARY .....</b>	<b>3</b>
<b>1.0 INTRODUCTION.....</b>	<b>4</b>
1.1 Site Description.....	4
1.2 Site History .....	5
1.3 Site Geography, Geology, and Hydrogeology .....	6
<b>2.0 SUMMARY OF ENVIRONMENTAL CONDITIONS .....</b>	<b>7</b>
2.1 Environmental Reports .....	7
2.2 Nature and Extent of Contamination .....	7
<b>3.0 OBJECTIVES, SCOPE AND RATIONALE .....</b>	<b>8</b>
3.1 Standards, Criteria, and Guidance .....	8
<b>4.0 DESCRIPTION OF REMEDIAL ACTION.....</b>	<b>9</b>
4.1 Site Control.....	9
4.2 Excavation Work Plan .....	9
4.2.1 Soil Screening Methods .....	10
4.2.2 Materials Excavation and Load-Out .....	10
4.2.3 Soil Staging Methods.....	10
4.2.4 Materials Transport Off-Site.....	10
4.2.5 Materials Disposal Off-Site .....	11
4.2.6 Materials Reuse On-Site .....	11
4.3 Backfilling .....	11
4.4 Asbestos Abatement.....	11
4.5 Air Monitoring.....	12
4.6.1 Dust Controls.....	12
4.6 Discussion of Remedial Action.....	12
<b>5.0 CONFIRMATORY SOIL SAMPLING .....</b>	<b>13</b>
5.1 Sampling Plan and Laboratory Analysis.....	13
5.2 Quality Assurance and Quality Control Protocols.....	13
5.3 Sampling Methods, Analytical Procedures and Documentation .....	14
5.3.1 Sampling Methods.....	14
5.3.2 Analytical Procedures.....	14
5.3.3 Documentation.....	15
<b>6.0 HEALTH AND SAFETY.....</b>	<b>16</b>
<b>7.0 REPORTING.....</b>	<b>17</b>
<b>8.0 SCHEDULE .....</b>	<b>18</b>

**FIGURES**

FIGURE 1 ..... SITE LOCATION MAP  
FIGURE 2 ..... SITE PLAN  
FIGURE 3 ..... SITE PLAN WITH EXCAVATION AREAS

**APPENDICES**

APPENDIX A ..... COMMUNITY AIR MONITORING PLAN  
APPENDIX B ..... HEALTH AND SAFETY PLAN

## **EXECUTIVE SUMMARY**

This document presents the Remedial Action Work Plan (RAWP) for 5627 Niagara Falls Boulevard in Niagara Falls, New York (the Site). This RAWP was also designed to address New York State Department of Environmental Conservation (NYSDEC) Spill No. 1808353. Work under this RAWP will be completed between Mark Cerrone, Inc. (MCI), the Site Contractor, and LiRo Engineers, Inc. (LiRo), the remediation oversight consultant. The project details are summarized below.

### *Contaminant Source and Constituents*

Contamination in excess of soil cleanup levels (SCLs) associated with Spill No. 1808353 are located within the former excavation area for Tank #s 2 through #5. Constituents in the excavation requiring remediation include volatile organic compounds (VOCs).

Additionally, Site Building 2 contains asbestos-containing materials (ACMs). Remedial activities as part of the re-habilitation of the building will include removal of ACM impacted building materials.

### *Extent of Contamination*

Analytical results indicate that contaminants are located at elevated concentrations within the west wall of the former tank excavation (7 feet below grade) and within one bottom sample area (13 feet below grade) of the former tank excavation. Based on NYSDEC Commissioner's Policy CP-51 (CP-51) Soil Cleanup Levels (SCLs), two hotspot areas were identified. At this time, the horizontal and vertical extents are assumed until confirmatory soil samples are collected, and results indicate the contaminants of concern in the hot spot excavation following cleanup are below CP-51 SCLs.

### *Proposed Site Redevelopment*

The planned redevelopment for the Site is a job training center.

### *Remedial Action*

The following steps will be implemented to address the known contamination within the subsurface material and inside the existing Site Building 2:

- Additional hot spot excavation along the former western excavation wall to address VOC concentrations in former samples identified as Wall B and Wall C.
- Additional hot spot excavation to address VOC concentrations in former sample identified as Bottom B of the former tank excavation.
- Additional excavation in the area of SB-10/MW-2 to address petroleum odors identified by LaBella Associates (LaBella) during their Phase II investigation in 2018/2019.
- Remove fuel lines and entrenched contaminated soils.
- Removal of ACM from Site Building 2. (Asbestos abatement work was completed in September 2023)

Confirmatory Sampling

Soil samples will be collected from the following locations:

- western sidewall and excavation bottom from hotspot remediation. Samples collected from these locations will be used to confirm that the hotspot remediation was successful at removing remaining VOC impacted soil. At this time, up to five soil samples will be collected (three from the west sidewall and two from the bottom) and submitted for analysis of CP-51 list VOCs and semi-volatile organic compounds (SVOCs);
- along the pipe trench(es). Samples collected from the pipe trench(es) will be used to confirm that the pipe trench excavations were successful at removing VOC and/or SVOC impacted soil. Soil samples will be collected along the trench every 20 linear feet along the pipe trench(es) and submitted for analysis of CP-51 list VOCs and SVOCs; and,
- sidewall and excavation bottom from the area of SB-10/MW-2. Samples collected from these locations will be used to confirm that the remediation was successful at removing remaining impacted soil. Up to five soil samples will be collected (one from each sidewall and one from the bottom) and submitted for analysis of CP-51 list VOCs and SVOCs.

## **1.0 INTRODUCTION**

This RAWP provides proposed methods to address contamination at the former Junior's Truck Stop, 5627 Niagara Falls Boulevard Site (the Site). This RAWP has been prepared to meet NYSDEC requirements for closure of Spill No. 1808353 and removal of ACM in compliance with NYS Department of Labor (NYS DOL) Code Rule 56 requirements. This RAWP discusses the following:

- current and historic site conditions;
- contaminants of concern and the extent of the contamination;
- quality controls and protocols for analytical sampling;
- health and safety procedures to protect site workers and the local community; and,
- proposed remedial measures.

This RAWP was developed to address the NYSDEC Spill No. 1808353. Spill No. 1808353 was reported in November 2018 as a result of indicators of petroleum contamination (elevated photoionization detector (PID) readings, stained soils, etc.) encountered during removal of underground storage tanks (USTs).

The planned redevelopment of the Site is for a job training center.

### **1.1 Site Description**

The Site is located in the City of Niagara Falls, New York (SBL #160.06-5-2). The Site is approximately 1.4 acres and is currently owned by the City of Niagara Falls. Niagara Falls Boulevard is located to the north, Henry Street to the east and south, and 56<sup>th</sup> Street to the west. Land uses immediately adjacent to the Site include commercial uses, retail, and the Republic Services Pine Avenue Landfill to the north. Figure 1 shows the general location of the Site.

The Site is developed with one partial two-story 2,560 square foot vacant convenience store (Site Building 1) that was constructed in at least 1985 and one two-story 14,690 square foot vacant motel and restaurant (Site Building 2) constructed in at least 1958. Two former fueling canopies are located north and west of Site Building 1 and five former USTs were located south of Site Building 1 (see Figure 2).

## **1.2 Site History**

The Site was historically utilized as a filling station and motel/restaurant from at least 1985 through 2016. A NYSDEC Petroleum Bulk Storage (PBS) listing (PBS 9-383902) associated with the Site listed a total of six (Tank #s 1 through 6) USTs. Tank #1 (12,000-gallon diesel) was reportedly closed-remove in 1997.

In March 2018, LaBella issued a Phase I Environmental Site Assessment (ESA) for the Site which identified multiple Recognized Environmental Conditions (RECs) including: the known, registered USTs and the potential for ghost USTs; a nearby historical filling station with several reported spills potentially associated with; and, the proximate location of the historical Electromet and Oldbury Electro-Chemical Company property.

Based on the results of the Phase I ESA, LaBella conducted a Phase II ESA between October 2018 and February 2019. The results of the Phase II investigation were included in the report identified as *Phase II Environmental Site Assessment, April 15, 2019*. Field work conducted by LaBella as part of the Phase II ESA included:

- geophysical survey of the Site;
- radiological screening of Site soil/fill materials;
- subsurface investigation and groundwater investigation;
- asbestos, lead based paint, and mold assessment of the Site buildings; and,
- closure in place of Tank #6 (12,000-gallon diesel UST) due to the proximity of the tank to Site Building 1. Removal of Tank #s 2 through #5 (12,000-gallon diesel, (2) 8,000-gallon gasoline, and 2,000-gallon diesel).

The Phase II ESA concluded the following.

- The geophysical survey identified the presence of five anomalies consistent with the five USTs.
- Radiological screening of subsurface soil/fill across Site did not indicate the presence of Technologically Enhanced Naturally Occurring Radioactive Material (TENORM) bearing fill.
- Soil borings advanced at the Site did not report VOCs or SVOCs at concentrations above CP-51 SCLs.
- No VOCs were reported in groundwater samples collected from temporary monitoring wells at concentrations exceeding NYSDEC Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (AWQSGVs). Several SVOCs in groundwater samples were reported at concentrations above AWQSGVs.
- ACM was identified in Site Building 2. ACM was not identified in Site Building 1.
- Lead-based components were identified on the exterior of Site Building 1 and interior and exterior of Site Building 2.
- No visible mold was observed in Site Building 1; however, spore trap sampling results indicated potential mold concerns. Visible mold and an active water leak were

- observed within Site Building 2.
- During removal of Tank #s 2 through #5, evidence of petroleum impacts (elevated PID readings, stained soils, etc.) were noted and Spill No. 1808353 was assigned to the Site by the NYSDEC.
- Post excavation confirmatory soil samples were collected from the sidewalls and the bottom of the UST tank excavation. Laboratory analytical results identified VOC exceedances of CP-51 SCLs in the two west sidewall samples (Wall B and Wall C) and one bottom sample (Bottom B).
- Three soil samples were collected from the bottom below Tank #6. No exceedances were reported in these three samples.

On January 8, 2020, the NYSDEC issued a letter following review of LaBella's Phase II ESA and indicated that additional remedial measures were required at the Site in order to address Spill No. 1808353. NYSDEC comments included the following with respect to soil remediation.

- Additional remedial measures were required in the areas of excavation soil samples Wall B, Wall C, and Bottom B.

It should be noted that according to LaBella's Phase II ESA report, the City of Niagara Falls reportedly removed the pump islands, capped associated piping, and cleaned out accessible sumps at the Site prior to LaBella's on-site work and closure/removal of Tank #s 2 through #6.

This RAWP will address the NYSDEC's request for additional remedial work associated with the UST excavation along with asbestos abatement (in certain areas) and interior demolition of Site Building 2.

### **1.3 Site Geography, Geology, and Hydrogeology**

Boring logs from the LaBella Phase II ESA indicate below the asphalt or concrete surface cover, non-native (fill material) consisting of gravel, sandy silt was noted from approximately 0.5 feet below ground surface (ft. bgs) to a maximum of 4 ft. bgs. Some observations of brick and slag were noted in a few borings. Below the fill material, native soils were encountered and consisted of a mixture of clayey silt to silty clay grading to clay to boring termination. Soil borings were terminated at depths ranging from 15 to 20 ft. bgs. Groundwater was noted during drilling at depths ranging from 7 to 10 ft. bgs.

In the three temporary groundwater monitoring wells installed, groundwater was measured between 15 and 19 ft. bgs. Groundwater reportedly flows to the south and west across the Site.

## 2.0 SUMMARY OF ENVIRONMENTAL CONDITIONS

### 2.1 Environmental Reports

Site characterization efforts were recently conducted and reported in the LaBella 2019 Phase II ESA.

Analytical results from the Phase II ESA investigation are summarized in Section 2.2 below.

### 2.2 Nature and Extent of Contamination

Contamination at the Site appears to be related to the USTs (Tank #s 2 through 5) located within the same excavation area. Groundwater is not impacted at the Site and is not considered an area of concern.

#### Excavation Soil

Based upon the samples collected from the UST excavation, two western sidewall samples (Wall B [6 ft. bgs] and Wall C [7 ft. bgs]) and one bottom sample, Bottom B (13 ft. bgs), reported VOCs at concentrations above CP-51 SCLs. These included:

VOC	NYSDEC CP-51 SCL (µg/kg)	Wall B (µg/kg)	Wall C (µg/kg)	Bottom B (µg/kg)
Benzene	60	NA	410	ND
Ethylbenzene	1,000	NA	1,500	1,600
Toluene	700	NA	4,200	ND
1,2,4-Trimethylbenzene	3,600	NA	3,900	16,100
m/p-xylene	*(260)	760	6,200	1,300
O-xylene	*(260)	290	2,600	NA

ug/kg=micrograms per kilograms  
 NA=Not applicable (no exceedances)  
 ND=non-detect  
 \*the total SCL for xylene is 260 ug/kg combined (m/p +o).

### **3.0 OBJECTIVES, SCOPE AND RATIONALE**

The goal for the remedial program is to obtain closure of NYSDEC Spill No. 1808353 and to ready Site Building 2 for building redevelopment. At a minimum, the remedy shall mitigate all significant threats to public health and the environment presented by the contamination identified at the Site through the proper application of scientific and engineering principles.

The planned redevelopment includes the use of the Site as a job training center.

#### **3.1 Standards, Criteria, and Guidance**

The remedy must conform to promulgated standards and criteria that are directly applicable or that are relevant and appropriate. The standards, criteria, and guidance's that will be, or will likely be, directly applicable to the Site's remediation include those listed below.

- 12 NYCRR Part 56 - Asbestos
- NYSDEC guidance document "CP-51: Soil Cleanup Guidance Policy", dated October 2010 (CP-51)

## **4.0 DESCRIPTION OF REMEDIAL ACTION**

The following steps will be implemented to address the known contamination and Spill No. 1808353 within the subsurface material and inside the existing Site Building 2:

- extension of the west sidewall (Wall B and Wall C) of the excavation by 3-feet to the west and 12-feet deep;
- excavation of an area of 15-feet by 15-feet by 15-feet centered over previous sample Bottom B;
- excavation of an area of 8-feet by 8-feet by 8-feet centered over the former SB-10/MW-2 to address petroleum odors identified by LaBella during their Phase II investigation in 2018/2019;
- Removal of fuel lines and entrenched contaminated soils;
- removal of ACM in Site Building 2;
- interior demolition within Site Building 2;
- community air monitoring during Site soil remediation; and,
- third party air monitoring during asbestos abatement (City of Niagara Falls); and,

This section of the report will identify the steps to be taken to remediate the Site and how the actions will successfully achieve the stated SCOs.

### **4.1 Site Control**

Site control is an important aspect of this remedial program. In order to safeguard the health and safety of Site workers and the general public, access to all remedial work areas will be restricted. Temporary construction fencing will be erected around accessible excavations and staging areas to prevent unauthorized personnel from entering these areas as appropriate. Caution tape and barriers will be placed around the asbestos abatement area(s) in accordance with 12 NYCRR Part 56.

### **4.2 Excavation Work Plan**

Excavation is planned to occur at the following locations:

- two hotspot areas within the previous excavation area from the removal of Tank #s 2 through #5;
- in the area of former SB-10/MW-2 where petroleum odors were detected; and,
- along pipe trench(es).

Material excavated from the Site will be screened for possible petroleum contamination and segregated into piles for either re-use as backfill or proper disposal. The clean recycled concrete aggregate (RCA) that was used to backfill the original excavation will be removed to access the bottom of the excavation and staged for re-use/backfill for the excavation.

Excavated soil will be screened for evidence of petroleum contamination and confirmatory soil samples will be collected from both the west wall and the bottom.

LiRo's field geologist will provide oversight, conduct soil screening, and coordinate with the Site Contractor, MCI.

#### **4.2.1 Soil Screening Methods**

- Visual, olfactory, and/or instrument-based (e.g., PID) soil screening will be performed by LiRo during all excavations into known or potentially contaminated material.

#### **4.2.2 Materials Excavation and Load-Out**

- The clean RCA fill in the excavation will be removed and stockpiled.
- A LiRo field geologist will observe and screen all excavated material and direct MCI operator to stockpile material in appropriate piles (disposal or re-use).
- MCI will investigate the presence of utilities and easements on the Site. It will be determined whether a risk or impediment to the planned work under this RAWP is posed by utilities or easements on the Site.
- Loaded vehicles leaving the Site will be appropriately covered, manifested, and/or placarded in accordance with appropriate Federal, State, local, and New York State Department of Transportation (NYSDOT) requirements (and all other applicable transportation requirements).
- MCI will be responsible for ensuring that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities.

#### **4.2.3 Soil Staging Methods**

- Excavated soil/fill will be placed on and covered with six millimeter thick plastic sheets.
  - Soil stockpiles will be continuously encircled with a berm and/or silt sock.
  - Stockpiles will be kept covered at all times with appropriately anchored plastic sheets. Stockpiles will be periodically inspected and damaged plastic covers will be promptly replaced.

#### **4.2.4 Materials Transport Off-Site**

- All transport of materials will be performed by licensed haulers in accordance with appropriate Local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed and trucks properly placarded.
- Material transported by trucks exiting the Site will be secured with canvas-type truck covers. If loads contain wet material capable of producing free liquid, truck liners will be used.
- Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during Site remediation.

#### **4.2.5 Materials Disposal Off-Site**

- Contaminated and regulated material will be transported and disposed of in accordance with all Local, State (including 6NYCRR Part 360), and Federal regulations.

#### **4.2.6 Materials Reuse On-Site**

The clean RCA fill used as backfill for the previous excavation will be stockpiled, segregated, and re-used. Likewise any soils showing no evidence of contamination will also be segregated and used as backfill.

### **4.3 Backfilling**

All materials proposed for import onto the Site will be sourced from a facility permitted to supply clean fill. It is anticipated that the imported fill material will be recycled concrete aggregate from a permitted facility.

### **4.4 Asbestos Abatement**

As noted in the LaBella Phase II ESA, ACM was found in samples collected from Site Building 2. A total of seven samples collected from Site Building 2 were determined to contain greater than 1% asbestos. A summary of the Site Building 2 ACM is presented below. All ACM is non-friable.

<b>Type of Material (Sample)</b>	<b>Sample Location</b>	<b>Estimated Amount (Area)</b>	<b>Friability</b>	<b>Condition</b>
Tan 9"x9" Floor Tile	Floor of Motel Rooms 15, 17, and 18	900 square feet (SF)	Non-Friable	Good
Gray Insulation	In Light Fixture of Motel Room 15	1 SF	Friable	Good
Gray 9"x9" Floor Tile	Floor of Motel Rooms 16, 19, 3 <sup>rd</sup> Layer of Bathroom Floor in Motel Room 17	629 SF	Non-Friable	Good
Brown 9"x9" Floor Tile	2 <sup>nd</sup> Layer of Bathroom Floor in Motel Room 17	20 SF	Non-Friable	Good
Black Mastic	Behind Wood Shingles in Room 1	100 SF	Non-Friable	Good
Gray Window Glazing Compound	In Windows of Doors in Room 7 and 19	24 linear feet (LF)/<1LF	Non-Friable	Good
Gray/Black Roofing Cement/Tar	Along Top of Exterior Stone, Around Vents and Pipes on the Roof and Along Shingles Under Roof Top Unit	85 SF	Non-Friable	Good

The abatement work will be completed using amended water and negative air units as per Code Rule 56. A remote decontamination unit will be set up within 50 feet of the building. All asbestos generated will be kept wet and immediately bagged and placed into appropriate containers for disposal.

#### **4.5 Air Monitoring**

Continuous air monitoring will be conducted at upwind and downwind locations during all ground intrusive activities as per DOH Generic Community Air Monitoring Plan (CAMP) included in **Appendix A**.

Code Rule 56 requires third party asbestos air monitoring during abatement. The City of Niagara Falls is contracting an asbestos monitoring firm to conduct the requisite abatement air monitoring.

##### **4.6.1 Dust Controls**

As part of the remedial actions to be performed at the Site, measures will be needed to limit dust generation. Dust suppression techniques will be employed by MCI as necessary to limit fugitive dust generated in disturbed areas during soil remediation. Such techniques may be employed even if the community air monitoring results indicate that particulate levels are below action levels. Techniques may include but are not limited to:

- wetting equipment and excavation surfaces;
- hauling materials in properly tarped or watertight containers;
- limiting the size of excavations; and,
- covering excavated areas and materials following excavation.

Effectiveness of the dust suppression measures will be evaluated based on the results of the air monitoring that will be conducted under the Site-Specific Community Air Monitoring Plan provided in **Appendix A**.

#### **4.6 Discussion of Remedial Action**

The Remedial Action as described above will be effective in remediating the Site soil with the goal of obtaining closure of NYSDEC Spill No. 1808353.

All contaminated material will be properly excavated and disposed of off-site, and the remaining native soil will be analyzed to ensure compliance with the NYSDEC CP-51 SCLs. Backfill materials will meet NYSDEC requirements for backfill at remediation sites.

All asbestos containing materials will be removed from the building and the third party air monitoring firm will be responsible for asbestos clearance testing as per Code Rule 56.

## **5.0 CONFIRMATORY SOIL SAMPLING**

Areas of residual soil contamination remain in the west sidewall excavation (Wall B and Wall C samples) and excavation bottom sample (Bottom B). Contamination may also be present in the area of former SB-10/MW-2 and the pipe trench(es). Figure 3 presents the locations of these features based on LaBella's site plans and indicates the areas of proposed additional excavations. Soil samples will be collected from: the west sidewall and excavation bottom from the hotspot remediation areas; on each excavation sidewall and bottom of former SB-10/MW-02; and, approximately every 20 linear feet of pipe trench(es). Analytical results of samples collected from these locations will be compared to NYSDEC CP-51 SCLs. Confirmatory samples with concentrations below CP-51 SCLs will show that remediation was successful in removing contaminants of concern. Up to six soil samples will be collected between the west excavation sidewall and the excavation bottom. Five soil samples will be collected in the excavation in the area of former SB-10/MW-2. Soil samples will be collected approximately every 20 feet along the pipe trench(es). Samples will be collected and analyzed for the following:

- CP-51 list VOCs
- CP-51 list SVOCs

The results of the endpoint sampling will be forwarded to NYSDEC to determine if acceptable levels have been attained. Additional material will be removed if needed to close the spill.

All analytical data will be submitted to a data validator who will prepare a Data Usability Summary Report (DUSR) that will be included in the Final Engineering Report.

### **5.1 Sampling Plan and Laboratory Analysis**

Additionally, Quality Assurance/Quality Control (QA/QC) samples will be collected, and the following describes the minimum number of samples per media type.

- Soil samples (excluding waste characteristic samples)
  - Blind duplicate – 1 sample for every 20 samples collected
  - Matrix Spike/Matrix Spike Duplicate (MS/MSD) – 1 sample for every 20 samples collected

LiRo will utilize the services of an NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory for analytical testing. The laboratory results for the samples will be reported in a Category B deliverables package to facilitate validation of the data, and a third party validator will review the laboratory data and prepare the DUSR. The validator will evaluate the analytical results for the field samples and QA/QC samples and compare the findings to United States Environmental Protection Agency (USEPA) guidance to determine the accuracy and validity of the results.

### **5.2 Quality Assurance and Quality Control Protocols**

To ensure that suitable and verifiable data results are obtained from the information collected at the Site, the approved USEPA Quality Assurance Project Plan (QAPP) will be implemented.

### **5.3 Sampling Methods, Analytical Procedures and Documentation**

#### **5.3.1 Sampling Methods**

Sampling procedures will be conducted in accordance with the NYSDEC *Sampling Guidelines and Protocols Manual* and LiRo SOP. Collection of representative samples will include the following procedures:

- ensuring that the sample taken is representative of the material being sampled;
- using proper sampling, handling and preservation techniques;
- properly identifying the collected samples and documenting their collection in field records;
- maintaining chain-of-custody; and,
- properly preserving samples after collection.

#### Soil Sampling

Soil sampling will be performed using two methods: (1) field screening using a PID; and, (2) grab samples. Samples will be collected as grab samples using dedicated new scoops or spoons. Grab samples are split and placed into jars supplied by the laboratory as well as into individual zip-lock bags for screening. Screening soil samples will be allowed to sit in sealed zip-lock bag for a short period of time (minimum of five minutes). Head space measurements will then be taken from each zip-lock bag. To prevent cross contamination, zip-lock bags will not be reused and will be disposed of properly. Calibration of all electronic field screening equipment will be completed daily and will be done to manufacturer's specifications.

Grab samples will be placed in 4-ounce or 8-ounce, wide-mouth, glass jars. Sample jars will immediately be placed on ice in a cooler.

#### QA/QC Sampling

Duplicate samples will be collected from a minimum of one sample location and will be selected randomly.

#### **5.3.2 Analytical Procedures**

##### Laboratory Analysis

Laboratory analysis will be conducted by a third-party laboratory that is accredited by the NYSDOH ELAP. Laboratory analytical methods will include the most current NYSDEC Analytical Services Protocol (ASP).

Soil samples sent to a certified laboratory will be analyzed in accordance with USEPA SW-846 methodology for the following contaminants:

- CP-51 List VOCs (EPA Method 8260)
- CP-51 List SVOCs (EPA Method 8270E)

Category B deliverable will be requested to be used in a third-party data validation.

Data Usability

The DUSR will be performed by a third-party data consultant using the most recent methods and criteria from the USEPA. The DUSR will assess all sample analytical data, blanks, duplicates, and laboratory control samples and evaluate the completeness of the data package. The waste characterization samples will not be validated.

**5.3.3 Documentation**

Custody Procedures

As outlined in NYSDEC *Sampling Guidelines and Protocols*, a sample is in custody under the following conditions:

- it is in your actual possession;
- it is in your view after being in your physical possession;
- it was in your possession and then you locked or sealed it up to prevent tampering;  
or,
- it is in a secure area.

The LiRo field geologist will maintain all chain-of-custody documents that will be completed for all samples collected that will leave the Site to be tested in the laboratory.

## 6.0 HEALTH AND SAFETY

To verify the safety of the workers and the local community during the performance of the work, monitoring practices of the work environment will be in place during all phases of the remedial activities. A Health and Safety Plan (HASP) was prepared that details procedures for maintaining safe working conditions and minimizing the potential for exposure to contaminated material. The HASP is provided in **Appendix B**.

Details on air monitoring are provided in the CAMP. The CAMP is provided in **Appendix A**.

## **7.0 REPORTING**

Based on the results of the work described above, LiRo will prepare the Final Engineering Report (FER) that will contain all sections and appendices as required by the NYSDEC guidance. The report will also identify and evaluate additional remedial activities for the Site, if any. The FER will describe and provide the following.

- Inspection/monitoring observations of the remedial measures
- Results of the community air monitoring program
- Analytical results
- Final survey drawings of the excavation
- Copies of Landfill Acknowledgement / Approval Letters for all disposed materials
- Copies of Landfill facility permits/certificates
- Waste hauler permits/certificates
- Tabulated load summaries for all remediation related out-going and in-coming materials
- Waste manifests or bills of lading for all remediation related materials
- Backfill characterization and testing documentation
- Site Monitoring Plan to include guidelines for future excavation work, post-remediation Site monitoring requirements and Engineering and Institutional Controls (EC/IC) that will be implemented (if necessary) to ensure that continuing best management practices will be employed in the future at the Site.

The documents will be submitted to the NYS DEC and USEPA for review and approval.

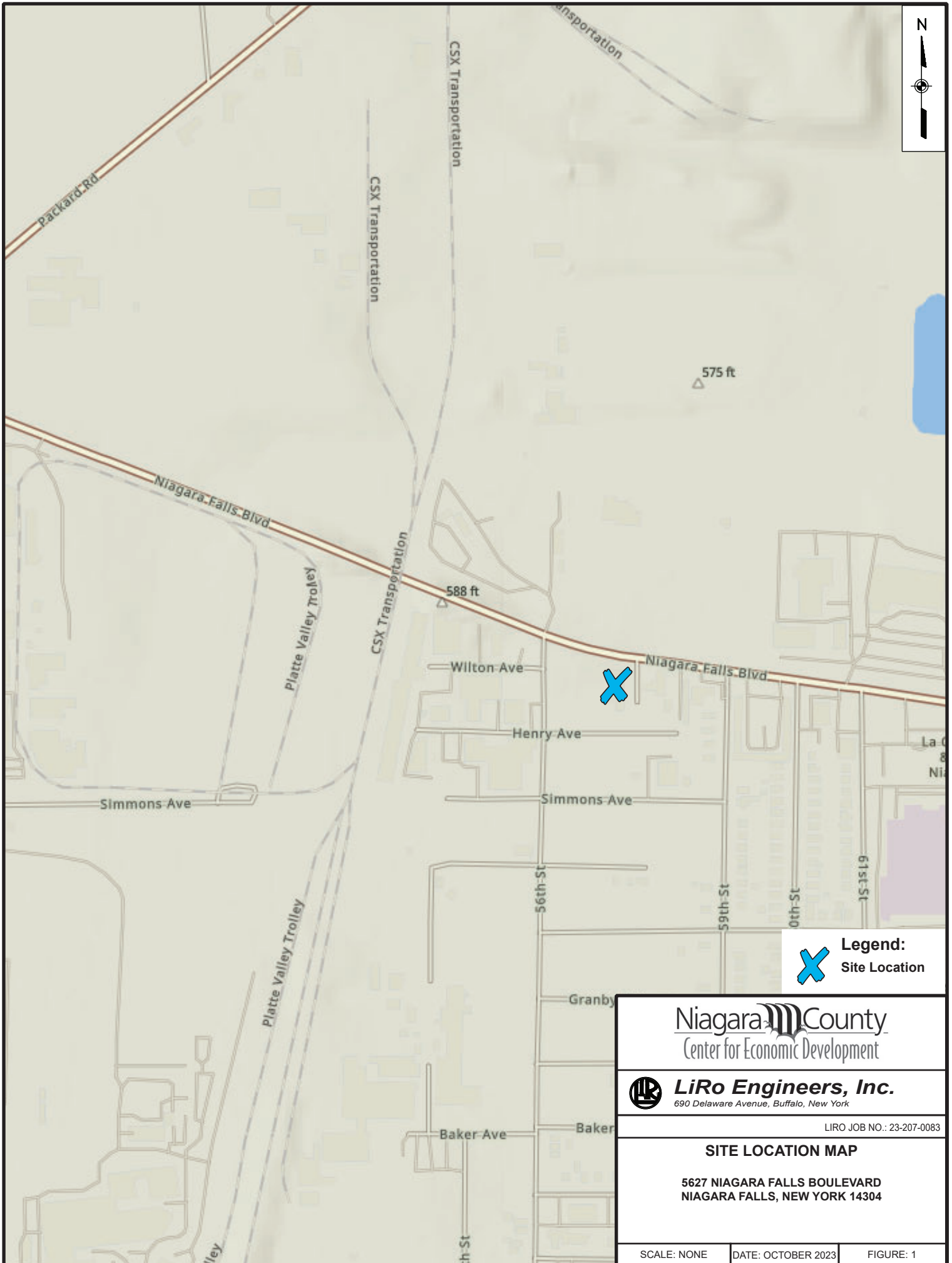
## **8.0 SCHEDULE**

USEPA documents have been submitted and approved and the asbestos remediation work completed. NYSDEC will be notified at least five days in advance of starting the soil remediation work. It is anticipated that the soil excavation work will take approximately two weeks to complete and that the site remediation report will be completed approximately eight weeks after the excavation work is completed.

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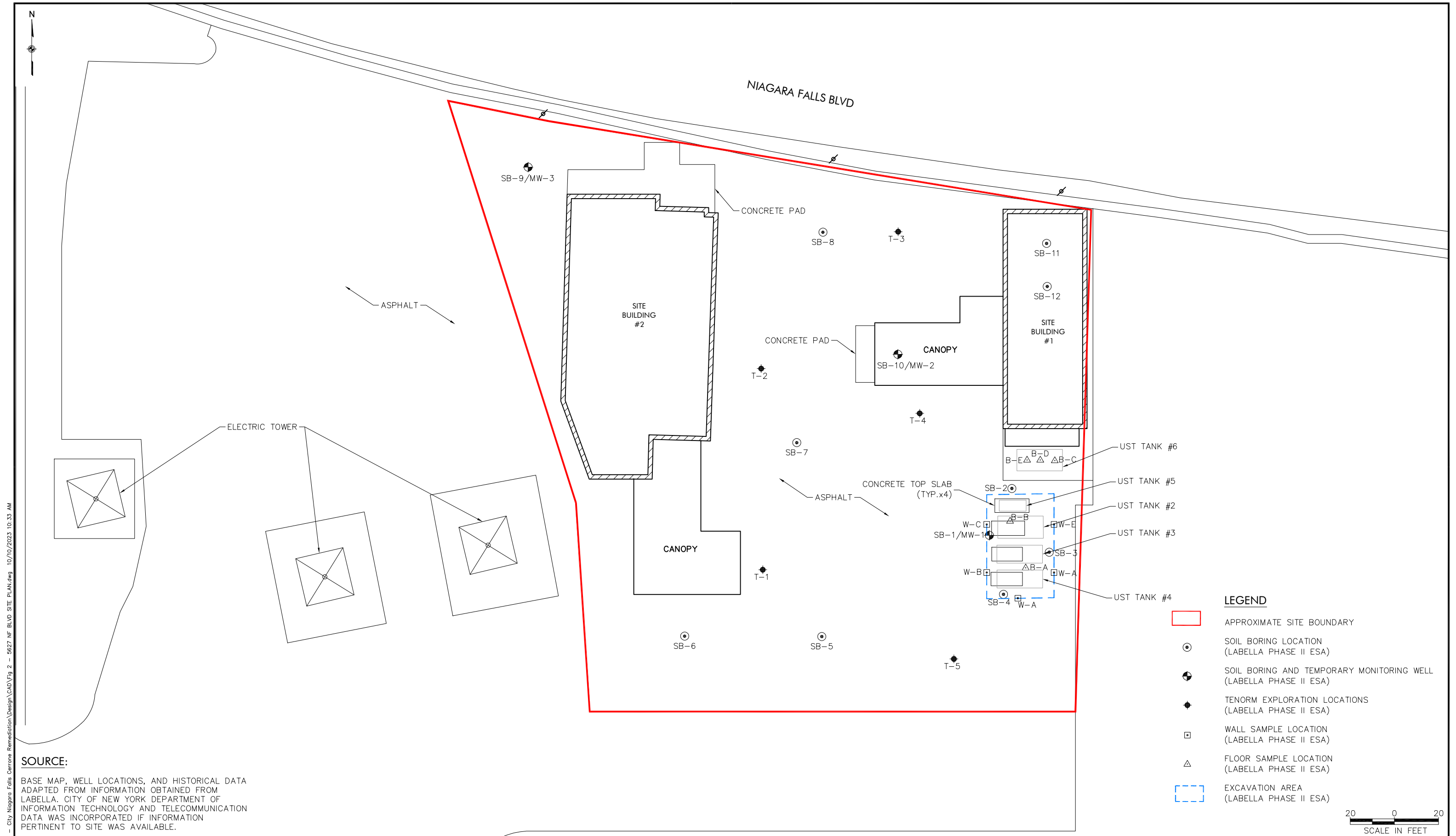
# FIGURES

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 **Legend:**  
Site Location

 <b>Niagara County</b> Center for Economic Development	
 <b>LiRo Engineers, Inc.</b> 690 Delaware Avenue, Buffalo, New York	
LIRO JOB NO.: 23-207-0083	
<b>SITE LOCATION MAP</b>  <b>5627 NIAGARA FALLS BOULEVARD</b> <b>NIAGARA FALLS, NEW YORK 14304</b>	
SCALE: NONE	DATE: OCTOBER 2023
FIGURE: 1	



W:\Niagara County\23-207-0083 - City Niagara Falls Cerrone Remediation\Design\CAD\Fig 2 - 5627 NF Blvd Site Plan.dwg 10/10/2023 10:33 AM

**SOURCE:**  
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- LEGEND**
- APPROXIMATE SITE BOUNDARY
  - SOIL BORING LOCATION (LABELLA PHASE II ESA)
  - SOIL BORING AND TEMPORARY MONITORING WELL (LABELLA PHASE II ESA)
  - TENORM EXPLORATION LOCATIONS (LABELLA PHASE II ESA)
  - WALL SAMPLE LOCATION (LABELLA PHASE II ESA)
  - FLOOR SAMPLE LOCATION (LABELLA PHASE II ESA)
  - EXCAVATION AREA (LABELLA PHASE II ESA)

20 0 20  
 SCALE IN FEET

**WARNING**  
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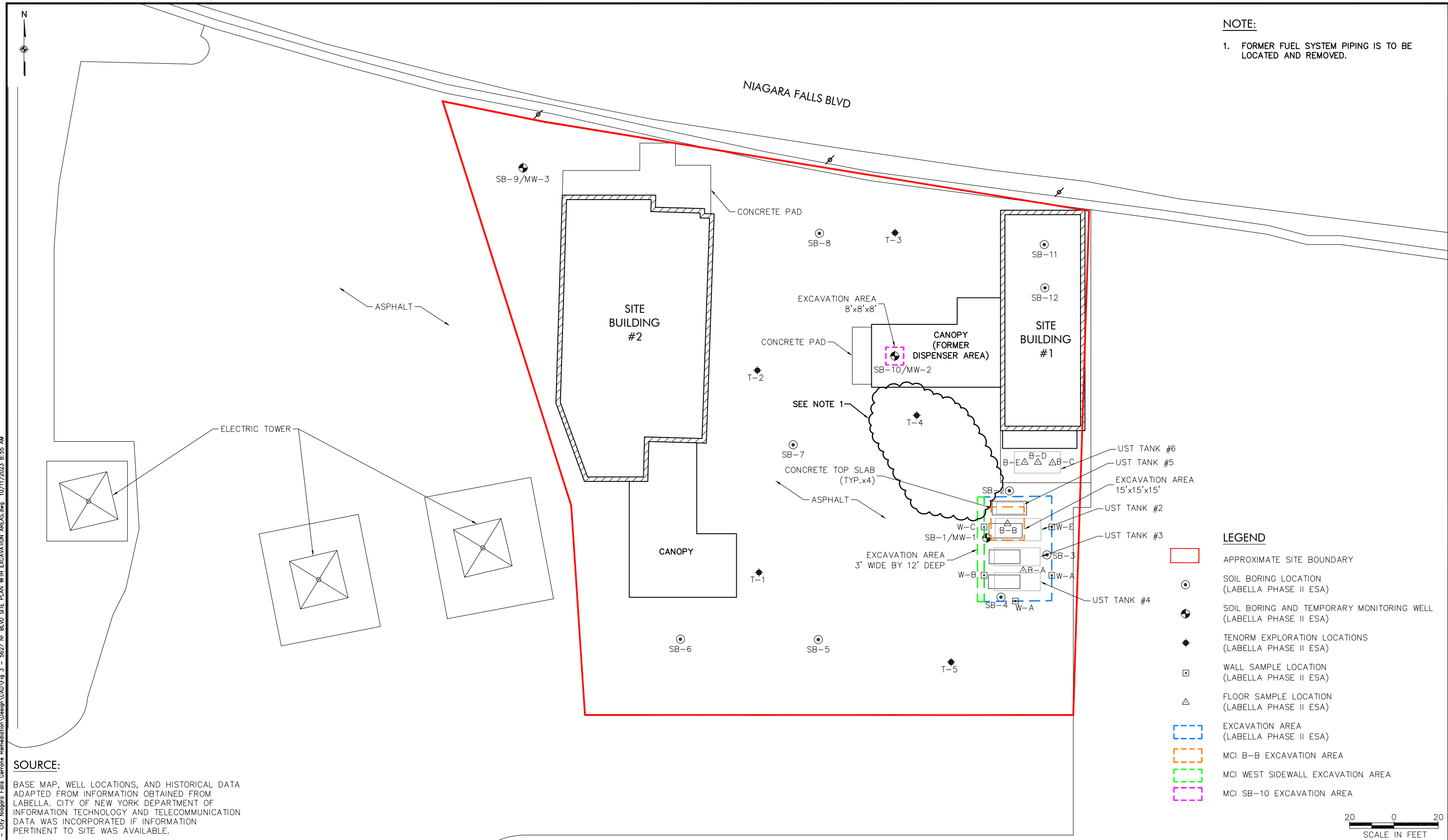
NO.	DATE	DESCRIPTION
REVISIONS		



PROJ. ENG.:	CLIENT:
DESIGNED BY:	
CHECKED BY:	
DRAWN BY:	DATE: OCTOBER 2023
	SCALE: AS SHOWN

JOB TITLE AND LOCATION:	5627 NIAGARA FALLS BOULEVARD NIAGARA FALLS, NEW YORK 14304	LIRO JOB NO.: 23-207-0083
DRAWING TITLE:	SITE PLAN	SHEET OF 2 OF 3
		FIGURE NO. 2

**NOTE:**  
 1. FORMER FUEL SYSTEM PIPING IS TO BE LOCATED AND REMOVED.



- LEGEND**
- APPROXIMATE SITE BOUNDARY
  - SOIL BORING LOCATION (LABELLA PHASE II ESA)
  - SOIL BORING AND TEMPORARY MONITORING WELL (LABELLA PHASE II ESA)
  - TENORM EXPLORATION LOCATIONS (LABELLA PHASE II ESA)
  - WALL SAMPLE LOCATION (LABELLA PHASE II ESA)
  - FLOOR SAMPLE LOCATION (LABELLA PHASE II ESA)
  - EXCAVATION AREA (LABELLA PHASE II ESA)
  - MCI B-B EXCAVATION AREA
  - MCI WEST SIDEWALL EXCAVATION AREA
  - MCI SB-10 EXCAVATION AREA

20 0 20  
 SCALE IN FEET

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NO.	DATE	DESCRIPTION
REVISIONS		



PROJ. ENG.:	CLIENT:
DESIGNED BY:	<b>Niagara County</b> Center for Economic Development
CHECKED BY:	
DRAWN BY:	DATE: OCTOBER 2023
	SCALE: AS SHOWN

JOB TITLE AND LOCATION:	LIRO JOB NO.:
5627 NIAGARA FALLS BOULEVARD NIAGARA FALLS, NEW YORK 14304	23-207-0083
DRAWING TITLE:	SHEET OF
SITE PLAN WITH EXCAVATION AREAS	3 3
	FIGURE NO.
	3

V:\Niagara County\23-207-0083 - City Niagara Falls Carrara Remediation\Design\CAD\Fig 3 - 5627 NF BLVD SITE PLAN WITH EXCAVATION AREAS.dwg 10/11/2023 8:55 AM

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# APPENDIX A

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**Community Air Monitoring Plan for**  
**Juniors Truck Stop Property**  
**5627 Niagara Falls Boulevard**  
**Niagara Falls, Niagara County, New York**

**June 2023**

## Community Air Monitoring Plan

### Overview

A Community Air Monitoring Plan (CAMP) requires real-time monitoring for volatile organic compounds (VOCs) and particulates (i.e., dust) at the downwind and upwind perimeter of the designated work area when certain activities are in progress at contaminated sites. The CAMP is not intended for use in establishing action levels for worker respiratory protection. Rather, its intent is to provide a measure of protection for the downwind community (i.e., off-site receptors including businesses and on-site workers not directly involved with the subject work activities) from potential airborne contaminant releases as a direct result of the remedial work activities. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown. Additionally, the CAMP helps to confirm that work activities did not spread contamination off-site through the air.

Real-time air monitoring for VOCs (including methane) and particulate levels at the perimeter of the exclusion zone or work area will be performed. Continuous monitoring will be performed for all ground intrusive activities and during the handling of contaminated or potentially contaminated media. Ground intrusive activities include, but are not limited to, soil/waste excavation and handling. Exceedances of action levels observed during performance of the CAMP will be reported to the New York State Department of Environmental Protection (NYSDEC) Project Manager and included in the Daily Report.

### VOC Monitoring, Response Levels, and Actions

VOCs will be monitored at the downwind perimeter of the immediate work area (i.e., the exclusion zone) during invasive work. Upwind concentrations will be measured at the start of each workday and periodically thereafter to establish background conditions. The monitoring work will be performed using equipment appropriate to measure the types of contaminants known or suspected to be present. The equipment will be calibrated at least daily for the contaminant(s) of concern or for an appropriate surrogate. The equipment will be capable of calculating 15-minute running average concentrations, which will be compared to the levels specified below.

Instrument	Action Level <sup>1</sup>	Response Action
Volatile Organic Compound Monitoring	Exceeds 5 parts per million (ppm)	Work activities temporarily halted. Monitoring continued until the total organic vapor level readily decreases below 5 ppm over background, in which work activities may resume.
	Exceeds 5 ppm over background but less than 25 ppm	Work activities will be halted, the source of the vapors identified, corrective actions to abate emissions, and monitoring continued. Resume work provided that the total organic vapor level 200 feet downwind of the exclusion zone or half the distance to the nearest potential receptor or residential/commercial structure, whichever is less - but in no case less than 20 feet, is below 5 ppm over background for the 15-minute average.
Note <sup>1</sup> : The ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone for the 15-minute average, in ppm.		

All 15-minute readings must be recorded and be available for the NYSDEC personnel to review. Instantaneous readings, if any, used for decision purposes will also be recorded.

Particulate Monitoring, Response Levels, and Actions

Particulate concentrations will be monitored at the upwind and downwind perimeters of the exclusion zone at temporary particulate monitoring stations. The particulate monitoring will be performed using real-time monitoring equipment capable of measuring particulate matter less than 10 micrometers (µm) in size (PM-10) and capable of integrating over a period of 15 minutes (or less) for comparison to the airborne particulate action level. The equipment will be equipped with an audible alarm to indicate exceedance of the action level as noted in the table below. In addition, fugitive dust migration should be visually assessed during all work activities.

Instrument	Action Level <sup>1</sup>	Response Action
Particulate Monitoring	Between 100 micrograms (one-millionth of a gram) per cubic meter (mcg/m <sup>3</sup> ) and 150 mcg/m <sup>3</sup>	Dust suppression techniques employed. Work will continue provided that downwind PM-10 particulate levels do not exceed 150 mcg/m <sup>3</sup> above the upwind level and provided that no visible dust is migrating from the work area.
	Exceeds 150 mcg/m <sup>3</sup>	Work activities will be halted, and activities re-evaluated. Work will resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m <sup>3</sup> of the upwind level and in preventing visible dust migration.
Note <sup>1</sup> : The ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone for the 15-minute average, mg/m <sup>3</sup> .		

All readings will be recorded and be available for the NYSDEC personnel to review.

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# APPENDIX B

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**SITE-SPECIFIC HEALTH and SAFETY PLAN**

**For**

**Niagara County Development of Economic  
Development**

**Environmental Remediation  
at**

**5627 Niagara Falls Blvd.  
Niagara Falls, NY 14304**

**SSHASP – REV. 0**

**June 1, 2023**

---

## **EMERGENCY CONTACTS**

***(24/7 RESPONSE)***

Mark Cerrone, Inc.  
2368 Maryland Avenue  
Niagara Falls, NY 14305

**MCI Office Phone Number - (716) 282-5244**  
***(M-F, 8:00am – 5:30pm)***

**1. George Churakos – *President***

Cell Phone: (716) 695-4660

**2. Lyle Hewitt – *Asbestos Superintendent***

Cell Phone: (716) 570-8953

**3. Tom Johnston – *General Superintendent***

Cell Phone: (716) 213-3101

**4. John McCune, CHMM – *Project Manager***

Cell Phone: (716) 525-6630

**5. Mike Pauly – *Safety Manager***

Cell Phone: (716) 913-5041

### **EMERGENCY NUMBERS**

## **FIRE/RESCUE/POLICE 911**

<b>POISON CONTROL</b>	<b>1-800-888-7655</b>
<b>GAS EMERGENCY</b>	<b>1-800-444-3130</b>
<b>DIG SAFETY NEW YORK</b>	<b>1-800-962-7962</b>
<b>OSHA</b>	<b>716-551-3100</b>
<b>NYS DEC SPILL HOTLINE</b>	<b>1-800-457-7362</b>
<b>CENTER OF OCCUPATIONAL MEDICINE</b>	<b>716-898-5858</b>

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**Environmental Health & Safety Plan**

**For**

**Niagara County Development of Economic Development**

**Environmental Remediation**

**at**

**5627 Niagara Falls Blvd.  
Niagara Falls, NY 14304**

**SSHASP – REV. 0**

**June 1, 2023**

**Prepared & Approved by:**

\_\_\_\_\_  
Paul Hoyt  
Mark Cerrone Inc. Site Foreman

\_\_\_\_\_  
Date

\_\_\_\_\_  
Tommy Johnston  
Mark Cerrone Inc. General Superintendent

\_\_\_\_\_  
Date



\_\_\_\_\_  
06/02/2023

\_\_\_\_\_  
John McCune, CHMM  
Mark Cerrone Inc. Project Manager

\_\_\_\_\_  
Date



\_\_\_\_\_  
06/01/2023

\_\_\_\_\_  
Mike Pauly  
Mark Cerrone Inc. EH&S Manager

\_\_\_\_\_  
Date

**ACRONYMS**

ACGIH	American Conference of Governmental Industrial Hygienists
ACM	Asbestos Containing Material
AHA	Activity Hazard Assessment
AIHA	American Industrial Hygiene Association
ANSI	American National Standards Institute
BCP	Brownfield Cleanup Program
BZA	Breathing zone air
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CIH	Certified Industrial Hygienist
CPR	Cardiopulmonary resuscitation
CWA	Clean Water Act
dBA	Decibels A-weighted
DOT	U.S. Department of Transportation
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ES&H	Environmental, Safety, and Health
f/cc	Fibers per cubic centimeter
GFCI	Ground fault circuit interrupter
HAZWOPER	Hazardous Waste Operations and Emergency Response
HPD	Hearing protection devices
HEPA	High-efficiency particulate air
HMIS	Hazardous Material Inventory System
ISMS	Integrated Safety Management System
IWD	Integrated Work Document
mg/M <sup>3</sup>	Milligrams per cubic meter
MMMF	Man-made mineral fibers
SDS	Safety Data Sheet
NEA	Negative Exposure Assessment
NEC	National Electric Codes
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NIOSH	National Institute for Occupational Safety and Health
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated biphenyl
PEL	Permissible exposure limit
POD	Plan of Day
PLHCP	Physician or other licensed health care professional
PPE	Personal protective equipment
RCRA	Resource Conservation and Recovery Act
ROPS	Roll-Over Protective Structure
SOW	Statement of Work
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time-weighted average

**TABLE OF CONTENTS**

<b>TOPIC</b>	<b>PAGE</b>
<b>1.0 INTRODUCTION .....</b>	<b>8</b>
<b>2.0 APPLICABILITY .....</b>	<b>9</b>
<b>3.0 SAFETY POLICY.....</b>	<b>9</b>
<b>4.0 KEY POSITIONS – ROLES &amp; RESPONSIBILITIES .....</b>	<b>9</b>
4.1.    PROJECT MANAGER / SITE SUPERINTENDENT/ SITE FOREMAN / COMPETENT PERSON .....	9
4.2.    ENVIRONMENTAL SAFETY AND HEALTH MANAGER (ESHM) .....	10
4.3.    COMPETENT PERSONS .....	11
<b>5.0 SITE ACCESS .....</b>	<b>12</b>
<b>6.0 HAZARD ASSESSMENT .....</b>	<b>12</b>
<b>7.0 INTEGRATED SAFETY MANAGEMENT.....</b>	<b>13</b>
7.1.    WORK CONTROL / DAILY PRE-TASK PLANNING .....	13
7.2.    EMPLOYEE EMPOWERMENT .....	13
7.3.    EMPLOYEE FEEDBACK AND INVOLVEMENT .....	13
7.4.    LESSONS LEARNED .....	13
7.5.    CONTINUOUS IMPROVEMENT .....	14
7.6.    FLOW DOWN OF SAFETY REQUIREMENTS .....	14
7.7.    RETURN TO WORK POLICY.....	14
7.8.    ASBESTOS REMOVAL .....	14
7.9.    EXCAVATION SAFETY .....	15
7.10.    BLOODBORNE PATHOGENS.....	16
7.1.    MOLD / BIOLOGICAL HAZARDS.....	17
7.2.    INFECTIOUS DISEASE PREVENTION AND CONTROL / COVID 19 .....	17
7.3.    ELECTRICAL HAZARDS .....	17
7.4.    LOCKOUT/TAGOUT .....	18
7.5.    FALL PREVENTION/ELEVATED WORK.....	19
7.6.    SLIP, TRIP, AND FALL HAZARDS .....	19
7.7.    TAGGING OF DEFECTIVE TOOLS, MATERIALS, OR EQUIPMENT .....	19
7.8.    INSPECTION OF TOOLS AND EQUIPMENT .....	20
7.9.    MATERIAL HANDLING AND STORAGE.....	20
7.10.    FLAMMABLE MATERIALS.....	21
7.11.    HOISTING AND RIGGING.....	21
7.12.    SILICA DUST CONTROL DURING SITE WORK ACTIVITIES .....	21
7.13.    BIOLOGICAL HAZARDS .....	23
7.14.    HOUSEKEEPING .....	23
7.15.    SANITATION.....	23
7.16.    FIRE PROTECTION AND PREVENTION.....	23
7.17.    MOTOR VEHICLE, AND HEAVY EQUIPMENT, WORK ZONE TRAFFIC CONTROL .....	24
7.18.    BACK INJURY PREVENTION.....	25
7.19.    LADDERS.....	25
<b>8.0 MEDICAL SURVEILLANCE PROGRAM.....</b>	<b>26</b>

8.1.	RESPIRATORY MEDICAL MONITORING .....	27
8.2.	AUDIOMETRIC TESTING.....	27
8.3.	ADDITIONAL OSHA-SPECIFIC MEDICAL MONITORING REQUIREMENTS .....	27
8.4.	MEDICAL EXAMINATION .....	27
8.4.1.	<i>Initial Examinations</i> .....	27
8.4.2.	<i>Periodic Physicals</i> .....	28
8.4.3.	<i>Specific Evaluations Related to Job Duties</i> .....	28
8.4.4.	<i>Lower-tier Subcontract Employees</i> .....	28
8.5.	SUBSTANCE ABUSE TESTING .....	28
<b>9.0</b>	<b>GENERAL TRAINING REQUIREMENTS.....</b>	<b>29</b>
9.1.	COMPETENT PERSON .....	29
9.2.	EMPLOYEES .....	30
9.3.	SITE SPECIFIC TRAINING .....	30
9.4.	HAZARD COMMUNICATION PROGRAM AND TRAINING .....	30
9.5.	HAZARDOUS NOISE EXPOSURE .....	31
9.6.	PERMIT REQUIRED CONFINED SPACE TRAINING .....	32
9.7.	BLOOD BORNE PATHOGEN TRAINING .....	32
9.8.	FIRST AID/CPR TRAINING .....	32
9.9.	FIRE EXTINGUISHER TRAINING .....	32
9.10.	FIRE WATCH TRAINING.....	32
9.11.	LOCKOUT/TAGOUT TRAINING (CONTROL OF HAZARDOUS ENERGY).....	32
9.12.	EMERGENCY RESPONSE TRAINING.....	32
9.13.	SITE VISITOR TRAINING.....	33
<b>10.0</b>	<b>PERSONAL PROTECTIVE EQUIPMENT .....</b>	<b>33</b>
10.1.	PPE SELECTION.....	33
10.2.	LEVELS OF PROTECTION .....	34
10.3.	EYE AND FACE PROTECTION.....	35
10.4.	HAND PROTECTION.....	35
10.5.	REFLECTORIZED APPAREL .....	35
10.6.	HEARING PROTECTION.....	36
10.7.	RESPIRATORY PROTECTION .....	36
<b>11.0</b>	<b>HAZARD COMMUNICATION PROGRAM .....</b>	<b>36</b>
11.1.	HAZARDOUS MATERIAL INVENTORY SYSTEM (HMIS).....	37
11.2.	HAZARD DETERMINATION .....	37
11.3.	SAFETY DATA SHEETS (SDS).....	37
11.4.	LABELS AND OTHER FORMS OF WARNING .....	38
11.5.	EMPLOYEE INFORMATION AND TRAINING .....	38
<b>12.0</b>	<b>EXPOSURE MONITORING AND AIR SAMPLING .....</b>	<b>38</b>
12.1.	SUSPECTED METALS MONITORING.....	39
12.2.	NOISE MONITORING .....	39
12.3.	CARBON MONOXIDE MONITORING.....	39
12.4.	DUST CONTROL.....	39
12.5.	CERTIFICATION/CALIBRATION OF MONITORING INSTRUMENTS .....	40
<b>13.0</b>	<b>RESPIRATORY PROTECTION PROGRAM.....</b>	<b>40</b>
13.1.	PROGRAM ADMINISTRATION .....	40
13.2.	USE OF APPROVED RESPIRATORS .....	40

13.3.	HAZARD EVALUATION FOR RESPIRATOR SELECTION .....	40
13.4.	RESPIRATOR FITTING .....	41
13.5.	RESPIRATORY TRAINING .....	41
13.6.	FACIAL HAIR .....	41
13.7.	EYE AND FACE PROTECTION .....	41
13.8.	USING GLASSES WITH RESPIRATORS .....	41
13.9.	ISSUANCE OF RESPIRATORS .....	41
13.10.	RESPIRATOR INSPECTION .....	42
13.11.	RESPIRATOR MAINTENANCE.....	42
13.12.	RESPONSIBILITIES DURING RESPIRATOR USE .....	42
<b>14.0</b>	<b>EMERGENCY RESPONSE / ACTION PLAN.....</b>	<b>42</b>
14.1.	FIRST AID/MEDICAL CARE FOR INJURIES .....	43
14.2.	FIRES.....	43
14.3.	INCLEMENT WEATHER .....	43
14.4.	SPILLS.....	43
14.5.	MEDICAL EMERGENCY.....	44
14.6.	REPORTING AN EMERGENCY .....	44
14.7.	EMERGENCY EQUIPMENT .....	44
<b>15.0</b>	<b>HAZARD ASSESSMENT DOCUMENTATION.....</b>	<b>45</b>
<b>16.0</b>	<b>HEALTH AND SAFETY RECORDS .....</b>	<b>45</b>
<b>17.0</b>	<b>INCIDENT REPORTING .....</b>	<b>45</b>
<b>18.0</b>	<b>EMERGENCY ASSISTANCE.....</b>	<b>45</b>
<b>19.0</b>	<b>SAFETY MEETINGS AND RECORDS.....</b>	<b>46</b>

Attachments

Emergency Contact List  
Mark Cerrone Inc. – Index & AHA's  
MCI – Daily PTSP

Adopted for Reference

LaBella Environmental Management Plan

Dated: April 25, 2019

## 1.0 INTRODUCTION

### Purpose

The purpose of this Project Safety Plan is to establish appropriate health and safety procedures to be followed by Mark Cerrone, Inc. and its Subcontractors for the Asbestos Abatement and Remediation of 5627 Niagara Falls Blvd., Niagara Falls, NY.

### Background

The Site is approximately 1.42 acres in size and is located south of Niagara Falls Boulevard, between 56th Street and 59th Street. It is currently developed with a two-story 14,690 sqft vacant motel and restaurant located on the western portion of the Site which was constructed in 1958 ("Building 1"), and a two-story 2,560 sqft vacant convenience store along with associated canopies located on the eastern portion of the Site which was constructed in 1985 ("Building 2"). The Site was formerly occupied by Junior's Truck Stop, a filling station was present on-site from at least 1985 to 2016, which included two (2) fuel canopies, seven (7) pump islands, and eight (8) dispensers surrounding Building 2. In addition, the Site contained five (5) diesel and gasoline underground storage tanks ("UST") which were previously located south of Building 2.

### Scope of Work

The basic Scope of Work includes the Environmental Remediation at 5627 Niagara Falls Blvd, Niagara Falls, NY to include:

- Perform Pre-mobilization Required Notifications, Obtain Required Permits,
- Mobilization of equipment, tools and safety supplies
- Perform Asbestos Abatement / Remediation in accordance to NYS-Code Rule 56.
- Perform Interior Demolition, Removal and Disposal,
- Perform Waste Containment and Disposal
- Perform subsurface material removal and disposal following EMP Plan
- Perform Site Restoration - Backfill
- Demobilize

This Plan applies Mark Cerrone Inc.'s more general construction health and safety procedures to the unique hazards of this project under the following basic principles:

- To conduct work in a safe manner
- Stop work immediately to correct any unsafe conditions that is encountered.
- To take corrective action so that work may proceed in a safe manner.
- Basic health and safety policies and programs are in place and enforced.
- Hazards have been identified and addressed at this site from the project specification and from Mark Cerrone Inc.'s experience with these types of projects.
- A Competent Person has been given the authority and responsibility of monitoring compliance with the Plan at the site, identifying any additional hazards as the work proceeds, and making adjustments as necessary.

## **2.0 APPLICABILITY**

This Environmental Safety and Health (ES&H) Plan has been written to meet the requirements of Title 29 of the Code of Federal Regulations (CFR) Part 1926.

The following Codes, Standards, and Regulations are applicable to this project. Mark Cerrone, Inc. shall demonstrate compliance with these standards and Project Requirements;

- U.S. Department of Labor, Occupational Safety & Health Administration (OSHA)
- OSHA 29 CFR 1926, Safety and Health Standards for Construction Industry
- New York State Code Rule 56
- United States Environmental Protection Agency (EPA)
- American National Standards Institute (ANSI)

This Plan applies to Mark Cerrone, Inc., its subcontractors, includes visitors, who access the jobsite.

## **3.0 SAFETY POLICY**

Mark Cerrone Inc.'s Environmental, Safety, and Health Policy is that the health and safety of all personnel and the public is of primary importance. To this end, the safety of the workers, the public and the environment will have precedence over cost and schedule. The policy is based on a sincere desire to eliminate occupationally induced injuries and illnesses. The prevention of injuries and illnesses is of such consequences that it will be given precedence over operating productivity or schedule pressures to the greatest extent possible. Mark Cerrone Inc. will provide training, monitoring, personal protective equipment, and facilities required for personal health and safety. Mark Cerrone Inc. will fully implement and embrace the Integrated Safety Management System (ISMS) by: involving all workers in work planning, hazard identification and analysis, development of controls, task execution and encouraging feedback and suggestions. Mark Cerrone Inc. pledges to commit its human and material resources to achieving and sustaining Zero Accident Performance and Zero unplanned discharges or releases with respect to the environment.

Mark Cerrone Inc. will make every effort to ensure that all personnel fully comply with our "Safety & Quality First" Policy. No person will be required to work in surroundings or under working conditions, which are unsafe or dangerous to his/her, health.

## **4.0 KEY POSITIONS – ROLES & RESPONSIBILITIES**

The following positions have been identified as Key Positions for the Project.

### **4.1. Project Manager / Site Superintendent/ Site Foreman / Competent Person**

The Project Manager/Site Superintendent is responsible for overall project performance,

quality, safety, and environmental compliance.

The Project Manager/Site Superintendent will be involved in project oversight, inspection, coordination, review of subcontractor's activities, and provide direct interface with MCI Site project staff and contracting officers. He will be responsible and accountable for the following:

- Primary point of contact and overall project implementation.
- Overall responsibility and management accountability for project performance, safety, environmental compliance, and the well-being of project employees, including subcontractors
- Ensuring project is completed to MCI requirements as well as consistent with cost, schedule, and contractual requirements
- Organizing project staffing, coordinating overall operations, and directing/delegating project team members and subcontractors
- Planning, scheduling, and monitoring project related activities

#### **4.2. Environmental Safety and Health Manager (ESHM)**

The ESHM / Competent Person is responsible for implementing the Health and Safety Program as outlined in the Site Specific Environment, Health and Safety Plan and Mark Cerrone Inc.'s Corp. HASP. The ES&H Manager defines and implements industrial safety plans and procedures.

The ES&H will be responsible for the following:

- Cease work, remove worker from hazardous area if safety or health of worker, other site personnel, or third parties is jeopardized by workers activities.
- Ensuring personnel are appropriately trained and contribute to safety briefings and orientation to all personnel,
- He is the only individual authorized to review and restart operations after a work stoppage due to safety concerns,
- Subcontractor safety plans are approved and provide oversight to their safety practices,
- Ensure equipment and conditions are inspected, and work in progress complies with applicable health and safety standards and specifications, and
- Provide project guidance is provided and directions for OSHA 1926 and 1910 Standards are followed.
- Stop work and remove personnel from the Site if the safety or health of Mark Cerrone Inc. personnel, other Site personnel, or third parties is jeopardized by work activities;
- Ensure that a daily pre-job briefing and weekly toolbox safety meeting have been conducted;
- Provide project-specific training for new employees and visitors;
- Establish and implement applicable ES&H procedures;

- Ensure compliance with warning systems for the project (including evacuation alarms, accountability rosters, assembly points, etc.);
- Ensure that the Site map includes safety information such as locations of fire extinguishers and eye wash stations, and ensure that the first-aid kits are kept current;
- Ensure that proper chemical and safety postings are in place and legible;
- Ensure that all operations are conducted so as to mitigate adverse environmental impacts (e.g., spill containment, erosion control, etc.) and comply with environmental requirements;
- Post and keep current all employee right-to-know information;
- Establish and maintain the hazard communications program (including Safety Data Sheets, training, etc.);
- Evaluate the Site for any hazards not identified in the JHA, initiate safety measures required to protect personnel, and revise documents accordingly;
- Ensure that all wastes generated are managed in compliance with applicable state and federal laws and Subcontract requirements;
- Establish and maintain programs required to mitigate hazards identified in the AHA;
- Maintain first-aid and OSHA 300 logs, report accidents and injuries through the appropriate channels, and conduct accident/incident investigations as required, including the completion of appropriate forms; and
- Coordinate with offsite emergency responders and medical service organizations to establish provided services and verify that phone numbers, addresses, and contacts are current and accurate.

**4.3. Competent Persons**

Mark Cerrone Inc. will provide Competent Persons, as needed, for evaluation and inspection of excavations, fall protection, scaffolding, ladders, hoisting and rigging, and abatement of hazardous materials as needed. The Competent Persons will meet the OSHA requirements for such work, and will be responsible for approving all pertinent activities and conducting inspections. The list of these competent persons will be compiled prior to the start of onsite work and inserted into this SSHASP.

The following key personnel may be contacted for assistance:

<b>Name</b>	<b>Responsibilities</b>	<b>Phone Number</b>
Paul Hoyt	Site Foreman – Competent Person	716-523-6194
Tommy Johnston	General Superintendent	716-213-3101
Mike Pauly	EH&S Manager	716-913-5041
John McCune	Project Manager	716-525-6630

## **5.0 SITE ACCESS**

### Workers

All workers are required to participate in a Daily pre-task coordination meeting starting at 7AM sharp. This is in addition to and prior to MCI led toolbox talks and pre-task planning. All Workers will be required to participate in the MCI Site Specific Safety Orientation that will include the review and Acknowledgement of this Safety Plan and the JSA.

Employees must sign a declaration stating that they have read and understand the Site Safety Rules.

### Visitors

Visitors must have approval from the MCI Project Manager to enter project area and must receive an access briefing prior to entry. Visitors requesting to enter work areas shall wear all appropriate Level D - PPE to include gloves for entry and abide by the appropriate work rules.

### Unauthorized

Unauthorized distraught, emotionally disturbed persons and or homeless persons shall be reported immediately the site Competent Person. Any unauthorized personnel will be asked to leave the jobsite immediately. Supervisory personnel shall make every effort to defuse any hostile situation and will call law enforcement to remove any persons who will not exit the jobsite upon request. As part of MCI's commitment to preventing workplace violence, MCI will provide training for all employees through both its orientation program and weekly toolbox training.

## **6.0 HAZARD ASSESSMENT**

The development of an Environmental, Safety, and Health Plan (ESHP) requires the concurrent development of Integrated Work Plans. The Integrated Work Document (IWD) identifies the work scope in sufficient detail to allow the assessment of the work and preparation of the JSA. The Competent Person evaluates the IWD tasks and requirements from the ESHP and incorporates the necessary controls into the JSA.

The JSAs are developed at the activity/task level and provide a detailed, job-specific, hazard assessment that addresses each step of the work process, hazards involved, and the controls for those hazards. Multiple IWDs are developed for complex work or when it is necessary to distinguish between different phases of work that may involve different hazards and/or controls. IWDs clearly identify each step of the work process in sufficient detail to provide assurance that all hazards, including those introduced by the method of accomplishment of the work, have been identified and that appropriate controls have been developed and are in place to eliminate or mitigate those hazards. The IWD process includes the following steps:

- Walk-down of work area to observe the actual condition of the equipment and the area (workers will be included in a walk-down);

- Review work scope and determine how to accomplish each task;
- Develop JSA (s) with input and review from workers and subject matter experts;
- Develop JSA (s) that describes each task (compare to Work Plan to ensure no conflicts and potential hazards have been addressed);
- Modify whenever a new hazard is identified or it is determined that a hazard does not have adequate controls.

## **7.0 INTEGRATED SAFETY MANAGEMENT**

Mark Cerrone Inc. is dedicated to establishing a work culture that comprises the elements advocated in the principles of its Integrated Safety Management System (ISMS). Mark Cerrone Inc. and supporting subcontractors will implement the ISMS core values and principles and make Environmental Safety and Health (ES&H) issues that affect our workers, the public, and the environment our chief concern when planning and fulfilling project tasks.

### **7.1. Work Control / Daily Pre-Task Planning**

Mark Cerrone will embrace the Pre-Task Planning and utilize a combination of MCI AHA's (attached) and Complete daily Job Safety Analyses Documentation.

### **7.2. Employee Empowerment**

Workers will be obligated to meet all ES&H requirements as a condition of employment. Site - managers will give all workers the authority and the personal responsibility to report unsafe conditions or suspend/stop work that they feel endangers themselves or others. Workers may do this without fear of reprisal from management. No worker will be required to perform a task he or she feels is unsafe or that will endanger the environment. All workers have stop work authority.

### **7.3. Employee Feedback and Involvement**

Employee feedback and involvement will be encouraged in all aspects of work planning to enhance the safety and efficiency of the work performed under this contract. Pre-job briefings will provide workers the opportunity to ask questions and offer suggestions. Safety/toolbox meetings will be conducted on a daily and weekly basis to review task requirements and to solicit worker feedback and suggestions.

### **7.4. Lessons Learned**

Lessons Learned judged to be pertinent to the scope of work will be obtained from applicable sources within the industry (i.e. Mark Cerrone Inc. Corporate Health and Safety, Industry Publications, and workers own real life experiences in the Construction Trades.) as well as the MCI Safety Advocate. Pertinent Lessons Learned will be discussed as a topic for pre-job briefings, toolbox meetings and, if needed, "back to

work” morning sessions. Workers will be encouraged to share personal experiences as an interactive Lessons Learned process during these reviews.

### **7.5. Continuous Improvement**

Feedback and suggestions contributed by workers during pre-job briefing, walk downs, toolbox meetings and back to work meetings will be documented. Items that are identified as immediately dangerous to life and health will be documented and corrected before work is to proceed further. Issues and items that are not immediately dangerous to life and health will be documented and status reviewed for progress during back to work morning sessions.

### **7.6. Flow Down of Safety Requirements**

Mark Cerrone Inc. and lower-tier workers involved in the project will be required to attend pre-job briefings, toolbox meetings, and the back to work sessions. In addition to the above meetings, all workers will be required to review the AHA and work package prior to commencement of each task element and document their participation with a signature. All visitors and lower-tier subcontractors will also be required to review and discuss the AHA and document their participation in the review process.

### **7.7. Return to Work Policy**

If an employee is injured on the job, every reasonable effort will be made to return them to work, with medical approval, at the earliest possible time. By doing so, we show our commitment to our employees to work together to minimize the human and financial loss associated with employee injury.

- Light duty work will be made available for employees injured on the job. Restricted duty assignments will be established as a standard part of handling employee injury claims. Mark Cerrone Inc. management will identify light duty jobs and/or activities in preparation for employees who need transitional duty before full duty assignment.
- Mark Cerrone Inc. will work with employees and be a part of the recovery immediately after an injury occurs, throughout, and up to the return to work. This assistance will help minimize the human and financial loss of on-the-job injuries.

### **7.8. Asbestos Removal**

Mark Cerrone Inc. shall conduct all asbestos removal and related work in accordance with the provisions of NYCRR 56, the approved NYS Variance and applicable EPA NESHAPS, and OSHA Standards. Where differences in protocols and/or procedures occur, Mark Cerrone Inc. shall utilize the more stringent for the purpose of this Project. In general the following procedures will be followed:

- The work shall be conducted during normal working hours beginning at 7am until 3:00pm on weekdays. Mark Cerrone Inc. shall coordinate all work activities with the Owner's Representative prior to commencement of work.
- Notification and permits to the NYS DOL, and USEPA have been submitted.

### **7.9. Excavation Safety**

No excavation shall commence on site, regardless of size, depth, or equipment used unless the operation has been authorized by MCI through a Daily Dig Permitting procedure. It is understood that excavation depth is specified in contract and the following safety measures are incorporated if depths exceed these specifications.

Mark Cerrone Inc. understands that excavation and trenching are one of construction's most hazardous activities. Therefore, this Section provides procedures to ensure the safety of all workers who are required to work in and around excavations, and to provide guidelines for locating existing underground utilities.

The Competent Person has the primary health and safety responsibilities during excavating. These include completing the Mark Cerrone Inc. Excavation Preplanning Worksheet to identify hazards and Daily Excavation Report, as well as implementing hazard controls which include, but are not limited to:

- Ensure all workers are trained and conduct a pre-excavation briefing.
- Determine the soil classification.
- Identify any potential electrical hazards, surface encumbrances, and underground installations.
- Ensure safe access and egress, exposure to vehicles, and protection from falling loads.
- Installation of shoring and other protective systems.
- Identify and provide hazard controls associated with accumulating water, and the stability of adjacent structures.
- Ensure that necessary emergency and rescue equipment are available.
- Complete the daily inspection report.

#### Soil Classification

Mark Cerrone Inc. intends to classify all soils as Type C. Type C soil means soil with an unconfined compressive strength of 0.5 tons per square foot or less. Therefore, all excavations in these soils will be sloped 1 1/2:1 (horizontal to vertical), benched or shored when any excavation exceeds 4 feet in depth.

#### Surface Encumbrances

All surface encumbrances that present a potential hazard to workers will be removed or supported, as necessary, to safeguard workers in the excavation.

#### Underground Installations

The estimated location of utility installations such as sewer, telephone, fuel, electric, water lines, or any other underground installations that reasonably may be expected to be encountered during excavation work, must be determined prior to opening any excavation. This is accomplished by using Dig Safety New York, and 3rd party locators. When excavation operations approach the estimated location of underground installations, the exact location of the installations will be determined by safe and acceptable means.

While the excavation is open, underground installations will be protected, supported or removed as necessary to safeguard workers.

#### Worker Access

Mark Cerrone Inc. will provide a stairway, ladder, ramp, or other safe means of egress within 25 feet of any employee for excavations 4 feet in depth or greater. Step ladders are not permissible.

#### Confined Space

Mark Cerrone Inc. understands that excavated areas are often confined spaces (> 4 feet in depth). They are not intended for human occupation and can be difficult to exit. This includes work in utility manholes.

Prior to entry, the entry supervisor (Competent Person) will complete and sign the MCI Confined Space Checklist and Entry Permit. The completed and signed Entry Permit and Checklist is valid for one shift only. A new completed and signed Entry Permit must be issued for each new workday, or crew of entrants and attendants.

The Entry Permit will be revoked and all entrants evacuated whenever the direct reading instruments being used to monitor atmospheric conditions in the confined space indicate hazardous atmospheric concentrations as below:

Oxygen content for all excavation entry must be 19.5 to 23.5%

Combustible gas or vapor must not exceed 10% of its lower explosive limit (LEL).

Hydrogen sulfide (H<sub>2</sub>S) must not exceed 10 ppm.

Carbon Monoxide (CO) must not exceed 35 ppm.

Monitoring will be conducted with a Honeywell 4-gas (LEL, O<sub>2</sub>, CO, and H<sub>2</sub>S) direct reading instrument.

### **7.10. Bloodborne Pathogens**

Employees whose job responsibilities include emergency response [e.g., designated first aid and cardiopulmonary resuscitation (CPR) qualified] that have the potential for occupational exposure to bodily fluids and tissue shall be trained in accordance with the OSHA 29 CFR 1910.1030 Bloodborne Pathogen requirements. Hepatitis B vaccination or a Vaccination Declination Form will be required for these employees. Potentially exposed personnel (First Aid or CPR providers) will be required to attend an annual

review of the Bloodborne Pathogens requirements.

### **7.1. Mold / Biological Hazards**

Mold / microbial growth was observed in various spaces throughout the building.

The building has been vacant for a number of years with apparent failures in the building envelope.

Signs of water intrusion such as fallen ceiling tiles, spalling wall and ceiling plaster, and water-stained building materials are present throughout the building. As the intent of the project is for complete interior renovation, NYS Mold Article 32 would not apply.

However, building occupants involved in the renovation project should pay special attention to the possibility of microbial growth in the building and take appropriate measures to protect workers from exposure, specifically through the use of Personal Protective Equipment (PPE).

### **7.2. Infectious Disease Prevention and Control / COVID 19**

#### **MCI's Required Strategies**

This interim guidance is based on what is currently known about the COVID-19 disease. This information and guidance were obtained by the Centers of Disease Control & Prevention (CDC) and the Department of Health (DOH). As this issue progresses or recedes, we will update this guidance. This guidance will be implemented by MCI on a company-wide basis and our expectation is that our subcontractor partners will implement measures at least as protective as those outlined in this interim guidance. Please follow all direction given by the CDC, DOH and Local, State and Federal Agencies. In addition, many of our project owners have issued their own guidelines for their employees and those working on their properties. MCI's expectation is that all parties will adhere to the most stringent requirements to ensure project compliance and the safest possible working conditions for all.

### **7.3. Electrical Hazards**

To prevent injuries from contact with energized sources, applicable requirements in OSHA 29 CFR 1926, Subpart K, and the National Electric Code (NEC) will be followed.

Mark Cerrone Inc. understands that electricity may pose a particular hazard to workers due to the use of portable electrical equipment. General electrical safety requirements include:

- All electrical wiring and equipment will be a type listed by UL, Factory Mutual Engineering Corporation (FM), or other recognized testing or listing agency.
- Portable and semi portable tools and equipment will be grounded by a multi conductor cord having an identified (type "S") grounding conductor and a multi-

contact polarized plug-in receptacle.

- Tools protected by an approved system of double insulation, or its equivalent, need not be grounded. Double insulated tools will be distinctly marked and listed by UL or FM.
- Live parts of wiring or equipment will be guarded to prevent persons or objects from touching them.
- Electric wire or flexible cord passing through work areas will be covered or elevated to protect it from damage by foot traffic, vehicles, sharp corners, projections, or pinching.
- All circuits will be protected from overload.
- Temporary power lines, switch boxes, receptacle boxes, metal cabinets, and enclosures around equipment will be marked to indicate the maximum operating voltage.
- Plugs and receptacles will be kept out of water unless of an approved submersible construction.
- All extension outlets will be equipped with ground fault circuit interrupters (GFCI).
- Attachment plugs or other connectors will be equipped with a cord grip and be constructed to endure rough treatment.
- Extension cords or cables will be inspected prior to each use, and replaced if worn or damaged. Cords and cables will not be fastened with staples, hung from nails, or suspended by bare wire.
- Electrical minimum clearances are to be as required by the municipality or 10 feet, whichever is greater.

Portable generators may be used on-site. All generators will be GFCI protected.

All work areas shall be evaluated for overhead utility hazards and distances maintained as necessary.

#### **7.4. Lockout/Tagout**

All equipment that may have a potential energy source must be locked and/or tagged out in accordance with the training provided by Mark Cerrone Inc. Safety Manager. Energy sources can be electrical, pneumatic, hydraulic, or mechanical. The Project Manager must be notified prior to performing any repairs or maintenance to equipment that requires Lockout/Tagout. Employees who will be working under Lockout/Tagout activities must complete Lockout/Tagout training prior to performing these function(s).

##### **7.12.1 Lockout / Tag Out Procedure**

- Employees will be trained before LOTO.
- All employees that will be effected will be notified.

- Equipment is operating it will be shut down by normal means.
- De-activate and isolate energy source.
- Lock out with assigned tag or lock which will be signed by a competent person (Superintendent) who is overseeing the work.
- Stored or residual energy, if any, must be dissipated by methods such as grounding bleeding, blocking or repositioning.
- Ensure equipment is then disconnect from energy source.
- **You are now Locked Out**

#### **7.12.2 Restoring Equipment to service**

- Check equipment and immediate area to ensure nonessential items have been removed and that equipment components are operationally intact.
- Check the work area to ensure that all employees have been safely positioned or removed from the area.
- Verify that the controls are in neutral
- Remove the lockout devices and reenergize equipment.
- Notify affected employees that the servicing or maintenance is completed and the machine is ready for use.

#### **7.5. Fall Prevention/Elevated Work**

All personnel working on site that may be exposed to fall hazards shall have completed Fall Protection/Prevention training as required by OSHA 29 CFR 1926.502 and shall follow the fall protection requirements set forth in OSHA 29 CFR 1926.502 and the Mark Cerrone Inc.'s Procedure "Working Surfaces and /Fall Prevention". Fall protection is covered in more detail in the Mark Cerrone Inc. HASP and Mark Cerrone Inc. AHA-08 Elevated Work Fall Protection.

"Controlled Access Zones", "Decking Access Zones", "Safety Monitoring Programs" and "Warning Lines" are not permitted as primary means of fall protection.

#### **7.6. Slip, Trip, and Fall Hazards**

The facility/site, especially roadways, access ways, aisles, stairways, scaffolds, and ladders shall be kept clean and clear of hoses, extension cords, welding leads, and other obstructions that may cause tripping or other accident hazards. Grease, oil, water, ice, snow, or other liquids shall be cleaned up or eliminated on walkways, ladders, scaffolds, or other access ways or work areas. If slipping and/or tripping hazards cannot be eliminated, the area shall be barricaded and posted with applicable hazard postings.

#### **7.7. Tagging of Defective Tools, Materials, or Equipment**

Defective tools, materials, and equipment shall not be used. Defective tools, materials, and/or equipment will be taken out of service immediately by tagging, destroying, or

removing them from the project site. A “DO NOT USE” tag shall be removed only when the equipment has been properly repaired and is declared serviceable. Defective equipment tags shall be dated and signed by the person tagging the equipment. Defective equipment tags shall also contain a description of the problem that requires the equipment, tools, or materials to be tagged. Defective equipment will be removed from service, repaired, and made acceptable prior to use.

### **7.8. Inspection of Tools and Equipment**

The Competent Person will inspect tools and equipment to ensure that they are safe, environmentally acceptable, and adequate for the purpose intended.

- Only tools in good condition will be issued or permitted on the job.
- The user before use shall inspect tools and equipment, with special attention given to power cords. If a power cord has been damaged, the tool shall be tagged defective and not used until a new power cord is installed. Personnel shall be trained in the safe operation of tools. Tools shall be kept in good condition and properly stored. Tools shall not be altered, and they shall be used only for their intended purposes and within the manufacturer’s guidelines. Guards shall not be removed from tools. All nip points, open drums, and flywheels shall be guarded.
- Power tools shall be equipped with constant pressure switches that will shut the tool off when the switch is released. All power tools and electrical equipment shall be double insulated or be equipped with ground plugs.
- Impact tools shall be free of mushroomed heads and cracks.
- Workbenches and sawhorses shall be provided when needed.
- All cords, hoses, and leads must be kept out of walkways. They must be strung over walkways or along the sides of walkways. Cords, hoses, and leads are not to be exposed to vehicle or equipment traffic unless protected. Cords, hoses, or leads must never be attached to the handrails of any type of man lift; scissors lift, or scaffold unless breakaway attachment is used. They must never be supported by a conductive material or run through doorways, man ways, or other wall or floor openings unless protected from damage. Any damage detected on cords, hoses, and leads will require removal from the project.

### **7.9. Material Handling and Storage**

- All new material shall be stored on dunnage (off the ground) and secured as necessary to prevent blowing, falling, sliding, or collapsing. Debris and scrap material need not be stored on dunnage if the material is not to be moved with rigging and can be maintained in a stable manner.
- Walkways and aisles shall be kept clear at all times, and laydown areas shall be

neat and orderly. Material shall be stored on level ground, and the boundaries of laydown areas shall be identified. Poles, pipe, and other stock that may roll shall be wedged to prevent spreading and rolling.

- No material, tools, or equipment shall be leaned against other objects or walls unless they are secured from movement. Employees moving material by hand shall use proper lifting techniques and gloves.
- The use of proper lifting techniques should be used and assistance and/or mechanical or powered equipment should be obtained for handling heavy loads. Proper PPE such as gloves, hardhat, safety glasses, etc. should be used when handling material.

### **7.10. Flammable Materials**

All flammable liquid tank trucks, refueling vehicles, and other vehicles transporting flammable liquids or gases will be inspected before entering the site. Fire extinguishers will be provided at the work site. Flammable liquids will be stored in fire resistant cabinets when not in use.

### **7.11. Hoisting and Rigging**

All hoisting and rigging will be conducted in accordance with 29 CFR 1926 Subpart N, Cranes, Derricks, Hoists, Elevators, and Conveyors and Mark Cerrone Inc.'s Procedure, "Hoisting and Rigging." The following requirements will be strictly adhered to:

- Only qualified personnel will be permitted to conduct hoisting and rigging activities.
- Slings, chokers and other similar devices shall have permanently affixed tag listing the maximum load rating of the device.
- All lifts will be evaluated by the Competent Person and classified as either a critical, pre-engineered, or ordinary lift. A lift plan will be prepared for all critical and pre-engineered lifts. No critical lifts are anticipated for this project.
- Verify that appropriate owner's manuals, operation instructions, load charts, and checklists are readily available.
- The user shall inspect all equipment for safe operation prior to placing in use and verify that all periodic inspections have been conducted in accordance with the manufacturers operating manuals.

### **7.12. Silica Dust Control during Site Work Activities**

Crystalline silica can be a hazard during concrete cutting, jackhammering, building demolition or using impact or rotary drills on concrete surfaces.

MCI shall control employee exposure to crystalline silica when exposures are at or above the ACGIH TLV and the OSHA action level of 0.025 mg/m<sup>3</sup> by submitting for review and approval a crystalline silica exposure monitoring plan. The elements of an exposure monitoring plan include, but are not limited to the following:

- A bulk sample representative of the material to be demolished must be sent with the air monitoring sample media for analysis;
- Initial monitoring and personal air sampling must be conducted to determine the potential worker exposure to respirable crystalline silica;
- Real-time particulate monitors with a 10 micron respirable size fraction attachment may be used as part of the initial and ongoing monitoring plan to evaluate the potential worker exposure. This must include an action level established by their corporate or site health and safety professional and include actions required (e.g., implement engineering, administrative controls, respiratory protection);

Other exposure control measures include:

- Follow the engineering controls and PPE requirements for tasks called out under 29 CFR 1926.1153, Table 1 (e.g., use of jackhammers, walk behind or hand-held saws, hand-held and rig-mounted core saws or drills, among others);
- Workers shall use power tools with dust suppression controls such as a water spray or local exhaust ventilation connected to a HEPA vacuum system when cutting concrete;
- When using handheld and stand-mounted drills (including impact and rotary hammer drills) (e.g., for soil vapor probe installation):
  - Use a drill equipped with commercially available shroud or cowling with dust collection system
  - Operate and maintain tool in accordance with manufacturer's instructions to minimize dust emissions
  - The dust collector must provide the air flow recommended by the tool manufacturer, or greater, and have a filter with 99% or greater efficiency and a filter-cleaning mechanism
  - Use a HEPA-filtered vacuum when cleaning holes.
- Maintaining surfaces as clean as practicable to minimize accumulation of crystalline silica containing particulate material;
- Apply dust control products or water on dry, dusty roads or piles of materials;
- Utilize heavy equipment with pressurized cabs and HEPA filter systems;
- Clean surfaces with a HEPA-filter vacuum or equivalent method;
- Implement dust suppression during demolition;
- An area on the worksite must be designated to be free of crystalline silica for workers to consume food or beverages;
- Restricting access to the work area where crystalline silica exposure may exist to only those authorized to perform work or enter the area;

- Do not eat, drink, smoke, chew tobacco or gum, or apply cosmetics in these areas; and
- Respiratory protection and other exposure controls selection shall be based on the most recent exposure monitoring results obtained from the competent person.

### **7.13. Biological Hazards**

Since the work area consists primarily of sludge removal and disposal the potential for vermin, snakes, and insects exists. Additionally, poisonous plants, such as poison ivy, may be found on the jobsite.

### **7.14. Housekeeping**

All material, tools and toolboxes, and other equipment shall be stored in a neat and orderly fashion. Trash and scrap should be removed from the work area on a regular basis.

### **7.15. Sanitation**

Sanitary toilets, wash water, and soap will be provided. Potable and non-potable water containers and portable toilets shall comply with OSHA 29 CFR 1910.141 requirements. In addition to these requirements, single-use cup dispensers shall be provided adjacent to all potable water dispensers. Water shall not be dipped from containers. Water dispensers shall be clearly identified as drinking water. Water dispensers in use shall be cleaned daily. Rest areas shall be kept clean, and trash shall be removed from them daily. Trash receptacles shall be stationed in all eating areas and emptied regularly. All sanitary waste will be disposed of at an off-site sanitary landfill.

### **7.16. Fire Protection and Prevention**

Storage and use of fuels will conform to the following standards and work practices:

- Practice good housekeeping to ensure that combustibles do not accumulate where they may help a fire to start, or add fuel once started.
- During refueling, all possible sources of ignition, sparks, open flames, electrical equipment, will be eliminated. The fuel container will be grounded to the tank to prevent static electrical sparks. A "No Smoking or Open Flames" sign will be posted conspicuously in the vicinity of all refueling operations.
- No Smoking signs will be posted and enforced wherever flammable materials are stored or used, or in other areas where fire risks are present.
- Fire extinguisher inspections are to be conducted daily.

- Fire watch will be present during and one hour after any spark or fire producing activity.

Fire extinguishers will be provided throughout the job site maintained in good condition, and inspected monthly. Size, type and number of fire extinguishers will conform to the requirements in OSHA Part 1926 Subpart F.

Flammable or combustible liquid storage shall comply with NFPA 30 and OSHA 1926.152. Gas cans shall be free of deformities and constructed of metal, with self-closing lids and flame arrestors. Fuel cans shall be labeled as to their contents. Fuel cans shall not be transported in vehicle passenger enclosures (i.e., vans, truck cabs, inside vehicles, etc.). Fuel cans must be secured during transport.

FM or UL-listed portable fire extinguishers will be available during welding, burning, and hot work activities. Fire extinguishers shall be placed as required by OSHA and NFPA in facilities, storage areas, vehicles, and equipment. Fire extinguishers will be inspected as required by OSHA and NFPA.

#### **7.17. Motor Vehicle, and Heavy Equipment, Work Zone Traffic Control**

Operators of motor vehicles shall have a current and valid driver's license and be certified and/or qualified to operate each industrial truck or heavy equipment. All industrial trucks and heavy equipment shall be inspected prior to entering the site to ensure all safety equipment is in working order and all hoses are not leaking fluids. Industrial trucks and heavy equipment provided by a rental company shall have a safety inspection prior to entering the site. No equipment shall be used without an inspection form on file.

Drivers and/or operators of vehicles and heavy equipment shall use caution when operating in close proximity to other equipment and tools (e.g., vehicles, heavy equipment, scaffolding, hoses, cords, etc.).

Drivers shall be responsible for the safety of all passengers and the stability of materials being hauled. Personnel shall not mount or dismount moving vehicles. Riding in vehicle bed, on loads, hooks, hammers, buckets, or material hoist is prohibited. Vehicles used to transport employees shall have seats firmly secured and adequate for the number of employees to be carried. The use of seat belts shall be mandatory when operating or riding in vehicles.

Machinery will not be operated in a manner that would endanger persons or property nor will the safe operating speeds or loads be exceeded. Controls will be in a neutral position, with the engines stopped and brakes set, unless work being performed requires otherwise. Rubber-tired heavy equipment shall not be left running unless the wheels are chocked and the parking brake set. Workers may not work under or between machinery, equipment, or parts of machinery or equipment until the material is physically blocked or otherwise supported.

Heavy equipment shall be maintained in proper operating condition at all times and shall be equipped with Roll-Over Protective Structure (ROPS) cabs as identified by 29 CFR

1926.1000.

All heavy equipment with ROPS cabs shall be labeled as required by 29 CFR 1926.1000. Seat belts shall be used in all equipment when installed by the manufacturer. All heavy equipment shall be equipped with functioning back-up alarm systems that are clearly audible above surrounding noise.

Operators shall perform daily documented inspections of machinery and equipment. Defective equipment that could potentially endanger personnel or the environment shall be tagged defective and immediately repaired or removed from service. Equipment may not run over hoses, grating covers, debris, or other similar material.

Blind backing is inherently dangerous, especially in areas where workers or pedestrian traffic is present. Flaggers or spotters will be used in these situations. Where a potential conflict between backing equipment and workers or pedestrians creates an exposure, a spotter will be provided.

Oils or other fluids (except water) that leak onto the ground shall be immediately contained and cleaned up and the contaminated soil shall be disposed of in accordance with Mark Cerrone Inc.'s Waste Management Plan.

### **7.18. Back Injury Prevention**

Proper lifting techniques will be used when moving heavy objects. The back should remain fairly straight, pick up the item by bending at the knees, and lift with the legs. No individual should lift items that weigh over 50 pounds by themselves. Anything over 50 pounds should be lifted by 2 or more people. Never twist the torso when moving heavy objects from one side to the other. Always turn your body and place the item where it needs to be.

### **7.19. Ladders**

Ladders used on this project shall be inspected before use. Ladders with broken steps or other damage shall be taken out of service.

Below are the hazard controls and safe work practices to follow when using stairways and ladders. Ensure the requirements in the referenced SOP are followed.

- Stairway or ladder is generally required when a break in elevation of 19 inches (48.3 cm) or greater exists.
- Personnel should avoid using both hands to carry objects while on stairways; if unavoidable, use extra precautions.
- Personnel must not use pan and skeleton metal stairs until permanent or temporary treads and landings are provided the full width and depth of each step and landing.
- Ladders must be inspected by a competent person for visible defects prior to each day's use. Defective ladders must be tagged and removed from service.

- Always obey and pay attention to warning labels or stickers on the specific ladder being used.
- Ladders must be used only for the purpose for which they were designed and shall not be loaded beyond their rated capacity.
- Ladder Training will be administered during Initial Orientation and continually throughout the project.
- Only one person at a time shall climb on or work from an individual ladder.
- User must face the ladder when climbing; keep belt buckle between side rails.
- Ladders shall not be moved, shifted, or extended while in use.
- User must use both hands to climb; use rope to raise and lower equipment and materials.
- Straight and extension ladders must be tied off to prevent displacement.
- Ladders that may be displaced by work activities or traffic must be secured or barricaded.
- Personnel climbing ladders shall face the ladder and maintain 3 points of contact with the ladder.
- Portable ladders must extend at least 3 feet (91.5 cm) above landing surface.
- Straight and extension ladders must be positioned at such an angle that the ladder base to the wall is one-fourth of the working length of the ladder.
- Stepladders are to be used in the fully opened and locked position.
- Users are not to stand on the top two steps of a stepladder; nor are users to sit on top or straddle a stepladder.
- Fixed ladders: 24 feet (7.3 meters) in height must be provided with fall protection devices.
- Fall protection should be considered when working from extension, straight, or fixed ladders greater than six feet (1.8 meters) from lower levels and both hands are needed to perform the work, or when reaching or working outside of the plane of ladder side rails.

## **8.0 MEDICAL SURVEILLANCE PROGRAM**

The medical surveillance program is designed to ensure that an individual's fitness is adequate for the type of work to be performed and Personal Protective Equipment (PPE) to be worn. Project personnel who are determined to be medically unfit to perform a specific activity/task will not be assigned that activity/task. A qualified medical provider makes this determination. The Program shall meet the requirements specified in 29 CFR 1926.65 and as outlined in the Mark Cerrone Inc. Corp. HASP.

## **8.1. Respiratory Medical Monitoring**

Personnel wearing respirators during the course of the project shall participate in a medical surveillance program that meets the requirements of OSHA 29 CFR 1910.134, *Respiratory Protection*. This regulation requires an evaluation by a physician or other licensed health care professional (PLHCP) to determine what physiological and psychological conditions are pertinent to wearing respirators and whether an individual is medically suited to be assigned to a task requiring a respirator. This determination can be made by: (a) review of responses to a medical questionnaire in accordance with Appendix C of the OSHA 29 CFR 1910.134 standard and (b) a physical examination when deemed necessary by PLHCP. A written opinion signed by PLHCP shall state, positively or negatively, whether the individual evaluated is medically qualified to wear respiratory protection. The opinion shall also include a description of any recommended work limitations placed on the individual as a result of medical conditions detected from the evaluation. Evaluations shall be provided more frequently under the following circumstances:

- if determined necessary by PLHCP,
- if an employee is injured or becomes ill or develops signs or symptoms possibly due to an overexposure;
- if an individual develops a condition that may affect his/her ability to wear a respirator, such as respiratory or cardiovascular disease, diabetes, fear of tight or enclosed spaces, ruptured eardrum, defective vision, etc.; and as soon as possible following an emergency incident.

## **8.2. Audiometric Testing**

Personnel who may be exposed to noise levels at or above 90 dBA 8-hour time weighted average, without regard to hearing protection devices, are required to participate in an audiometric testing program.

## **8.3. Additional OSHA-Specific Medical Monitoring Requirements**

Not Anticipated

## **8.4. Medical Examination**

### **8.4.1. Initial Examinations**

The initial examination is intended to provide baseline data of the individual's physical condition and to ensure that the individual's fitness is adequate for the type of work to be performed and PPE to be used. An initial examination is required for all employees that do not have appropriate current examinations within the last 12 months. The level of the examination to be determined by the employees job function, potential for being exposed to hazardous/asbestos materials, and the need for use of PPE. Personnel without appropriate medical certifications will require initial physical examinations.

Office personnel with no potential for exposure to hazardous substance will have a modified initial physical examination.

#### 8.4.2. Periodic Physicals

Periodic physicals are provided to all workers excluding office personnel, with the frequency based upon job function, potential for being exposed to hazardous and or asbestos materials, and the need for use of PPE. The physical provides the individual with periodic information on their physiologic trends, along with ensuring that they are in sufficient health status and physical condition to permit them to meet job requirements.

#### 8.4.3. Specific Evaluations Related to Job Duties

Several types of medical evaluations may be required by individual employees according to job duties, including:

- Employees wearing PPE;
- Employees wearing respirators require a pulmonary function test and a physician statement of respiratory fitness;
- Employees that work with hazardous substances (regulated by substance-specific standards) with airborne exposures exceeding applicable action limits.

#### 8.4.4. Lower-tier Subcontract Employees

Lower-tier subcontract personnel must meet the medical requirements of OSHA (29 Code of Federal Regulations (CFR) 1910.120) and those specific to this ES&H Plan.

### **8.5. Substance Abuse Testing**

Prior to having employees perform work on the site, Mark Cerrone Inc. employees have undergone and passed a screening test for illegal/unauthorized substances (alcohol, marijuana, cocaine, opiates, amphetamines and phencyclidine) prior to their initial assignment for work at the Site.

This drug screening program and reporting will be in accordance with Parts 382 and 40 of the Federal Motor Carrier Safety Regulations, Department of Transportation. This includes, but is not limited:

Breath, specimen and/or blood sample collection procedures are consistent with Part 40 of the Department of Transportation (DOT) requirements.

A Department of Health and Human Services (DHHS) certified laboratory performs (Part 40.39) the screening; and the laboratory results are evaluated by a qualified medical evaluation officer (occupational physician) (Part 382.407 and Part 40.29 (g)).

Illegal/unauthorized substances tested for and cut off levels will be consistent with DOT requirements as provided in Part 40.29. Alcohol cut-off levels shall be consistent with

parts 382.201 and 382.301.

In addition, Mark Cerrone Inc. will provide for Reasonable Suspicion and Post-accident Testing if any worker who reports to work appears to be "under the influence" as follows:

Whenever the Company has a reasonable suspicion that an employee's performance or on the job behavior may have been affected in any way by alcohol, drugs or controlled substances, Mark Cerrone Inc. will require the employee to submit a urine and/or blood sample for alcohol and drug testing.

Whenever an employee may have contributed to an accident, at the Site, or on Company time, so long, as the accident involves a fatality, bodily injury, or damage to property on Company time, the Company will require the employee to submit a urine and/or blood sample for alcohol testing and drug testing.

Mark Cerrone Inc. will endeavor to provide applicants and employees who test positive an opportunity to list all prescription and non-prescription drugs they have used, and to explain the circumstances surrounding the use of such drugs.

## **9.0 GENERAL TRAINING REQUIREMENTS**

Training requirements will vary depending upon the proposed activity, the proximity to the actual work being performed, and the potential for exposure. Personnel entering the actual barricaded work area may be subject to potential hazards associated with the work and therefore will be required to meet more rigid training requirements. Visitors who do not enter the work area are therefore not subject to hazards associated with the work and do not require the complete spectrum of training.

### **9.1. Competent Person**

The Mark Cerrone Inc. Project Competent Person – must have training that includes, but is not limited to:

- OSHA 30-hour Construction Supervisor Safety Training
- Knowledge of applicable OSHA standards in 29 CFR including, but not limited to: 1926.650, 651, 652 (Excavation Safety), 1910.134 (Respiratory Protection), 1910.146 (Permit Required Confined Spaces), 1926.21 (Safety Training and Education), and 1926.59 (Hazard Communication).
- An understanding of the Company's health and safety policies and procedures including hazard evaluation and risk assessment, and selection and use of personal protective equipment (PPE).
- Site health & safety plan development and management including selection, use, and care of monitoring equipment, accident causation and prevention, and accident investigation.

## **9.2. Employees**

Each Mark Cerrone Inc. employee must have the following training:

- OSHA 10-hour Construction Safety Training
- Knowledge of applicable OSHA standards in 29 CFR including, but not limited to: 1926.650, 651, 652 (Excavation Safety), 1910.134 (Respiratory Protection), 1910.146 (Permit Required Confined Spaces), 1926.21 (Safety Training and Education), and 1926.59 (Hazard Communication) as applicable.

## **9.3. Site Specific Training**

Prior to starting work on the project, all employees are required to participate in the MCI Safety Orientation provided by MCI. The orientation will cover general safety and health rules, regulations, and site specific policies and hazards.

All personnel will receive an on-site Pre-Job Briefing given by the Competent Person prior to participating in onsite fieldwork. In addition, all personnel, including any subcontractors, will participate in daily "Daily Briefing" meetings conducted by the Competent Person with emphasis on the following:

- The proper observance of daily health and safety practices.
- The need for vigilance in personal protection, and the importance of attention to proper use, fit, and care of personal protective equipment.
- The effectiveness and limitations of personal protective equipment.
- Site control, including work zones, access, and security.
- Recognition in oneself or in others of physical conditions requiring immediate medical attention, and application of simple first aid measures.
- Emergency procedures to be followed.

## **9.4. Hazard Communication Program and Training**

Site-Specific Hazard Communication Training is required for anyone who may be potentially exposed to hazardous materials. This requirement is met by completing a job-specific hazard communication briefing that is included as part of the Site Access Briefing. It will be tailored to the individual based on the potential for exposure.

Mark Cerrone Inc. understands that the objective of hazard communication is to provide information to employees about chemicals in the workplace so that they may understand the hazards involved in working with them. This training teaches the basic skills of hazard recognition as well as reading and understanding Safety Data Sheets (SDS). The goal of the training is help employees use this information to reduce the risk of injury or illness to themselves. To be effective, a hazard communication program must be a dynamic process that includes continuous updating of information and training, program audits, quality control, and continued management commitment.

Safety Data Sheets for all chemicals used at the job site will be procured and

transmitted to the on-site Competent Person. The SDS's will be bound separately with a Table of Contents, maintained by the Competent Person, and be available to all employees during each work shift. When a new chemical is obtained for use, each employee who could be exposed will be given the information and training as described below, and a copy of the SDS for the chemical will be obtained and distributed to those who actually use the chemical in the work place.

### Training

The Competent Person will instruct employees in the specific hazards of the hazardous materials used on- site and will maintain the material safety data sheets for them. The information and training will include, but is not limited to, the following topics:

- The symptoms of overexposure to the chemicals.
- How to determine the hazardous presence or release of a chemical in the work place.
- Methods to reduce or prevent the exposure to hazardous chemicals, such as control procedures, work practices, or personal protective equipment.
- Procedures to follow in the event of an exposure to hazardous chemicals.
- The location of the log containing the SDS's.
- How to review an SDS and how to read the labels, which are required on the chemical containers.
- Proper disposal procedures of waste materials will be enforced.
- Labeling of waste containers and disposal of all hazardous materials by a licensed disposal facility is required.

### Container Labeling

All chemical containers at the site will be clearly labeled by the Competent Person as to the contents, the hazards involved, and the name and address of the manufacturer. All secondary containers of hazardous chemicals will also be clearly labeled with the same information as the original container.

## **9.5. Hazardous Noise Exposure**

Training shall include, at a minimum, a description of the effects of noise on hearing and the purposes, advantages, disadvantages, and attenuation of various types of hearing protective devices (HPDs). Instructions should also include selection, fitting, use, and care of HPDs. Finally, training shall address the purpose of audiometric testing and an explanation of the test procedures. Annual training is required.

Sound level monitoring will be conducted as required on equipment suspected of exceeding the 85 dBA level of noise control. Engineering controls are the preferred method for protection against high noise levels. If engineering controls are not feasible, employees exposed to noise levels equal to or above 85dBA shall be required to wear

appropriate hearing protection that may include ear plugs, ear muffs or in some cases double hearing protection (ear plugs and ear muffs). Noise dosimetry may be conducted to evaluate the TWA as required by the SESHR. Areas where sound level measurements indicate noise levels may exceed 85 dBA will be posted as requiring hearing protection.

All noise monitoring equipment will be calibrated in accordance with the manufacturer instructions and 29 CFR 1910.95. All employees exposed to 85 decibels (dBA) Time Weighted Average (TWA) over 8 hours per day shall be enrolled in a hearing conservation program and receive training in accordance with OSHA regulation 29 CFR 1910.95.

#### **9.6. Permit Required Confined Space Training**

Workers will be trained according to their responsibilities outlined in OSHA 29 CFR 1910.146 whenever entry into confined spaces is to be performed. Confined space entries are not anticipated on this project.

#### **9.7. Blood Borne Pathogen Training**

Blood Borne Pathogen Training is required for anyone designated to provide first aid or CPR. This training may be provided during CPR and First Aid instruction.

#### **9.8. First Aid/CPR Training**

First Aid/CPR training is required for anyone designated to provide First Aid or CPR.

#### **9.9. Fire Extinguisher Training**

Fire Extinguisher training is required for workers who may use a fire extinguisher.

#### **9.10. Fire Watch Training**

Fire Watch Training is required for all welders and for persons designated to serve as fire watch. It is required on an annual basis.

#### **9.11. Lockout/Tagout Training (Control of Hazardous Energy)**

Not Anticipated with Project - Lockout/Tagout training will be required for any persons who may need to work under the protection of a lock-and-tag program.

#### **9.12. Emergency Response Training**

Project workers will be trained in site emergency action plans, including response to

incidental releases of materials that occur within the boundary of the project site. An incidental release is one that can be controlled at the time of the release by employees in the immediate release area or by maintenance personnel. As a minimum, this Procedure will include the following information:

- Protective actions
- Shelter-in-place
- Evacuation of personnel
- Notifications
- Emergency signals
- Evacuation routes
- Assembly areas
- Personnel accountability

### **9.13.Site Visitor Training**

Visitors, who enter the job site on an infrequent basis, do not conduct hands-on work, and have a limited potential for exposure to chemical or physical hazards are subject to different training requirements than site workers. Examples of this type of visitor may include quality control officers and health and safety personnel. Visitors who will be escorted by fully trained site workers. The competent person on-site will determine the level of training required for site visitors based on activities and hazards.

## **10.0 PERSONAL PROTECTIVE EQUIPMENT**

The selection of PPE for job tasks is based on potential physical, chemical, and asbestos. In cases where multiple hazards are present, a combination of protective equipment will be selected so that adequate protection is provided for each hazard. When a conflict exists with the PPE requirements, the more restrictive shall apply. Other hazards such as heat stress will be taken into consideration when selecting PPE.

### **10.1.PPE Selection**

Several general rules apply to the selection of protective clothing. The type of protection selected for a particular task is based on the following:

- Potential for exposure because of work being done;
- Route of exposure;
- Measured or anticipated concentration in the medium of concern;
- Toxicity, reactivity, or other measure of adverse effect; and
- Physical hazards such as falling objects, flying projectiles, etc.

In situations where the type of chemical or the concentration, and the probability of contact are not known, the appropriate level of protection must be selected based on professional experience and judgment until the hazards are further evaluated. Criteria

indicating a possible need for reassessment of the PPE selection include the following:

- Commencement of an unplanned (hazard not previously assessed) work phase;
- Working in unanticipated temperature extremes;
- Encountering new hazards;
- Exceeding the action limits of chemical hazards; or
- Changing the work scope so that the degree of contact with contaminants changes.

## **10.2.Levels of Protection**

It is initially planned that Level D will be required for all remediation activities. Although Levels A, B & C are not planned, site conditions may be encountered that require their use. The following sections describe the requirements of each level of protection.

**Level D** protection will be worn for initial entry on-site and when completing non-intrusive activities. Level D protection will consist of:

Standard work clothes, Steel-toe safety boots

Safety glasses or goggles must be worn when splash hazard is present

Nitrile outer gloves and PVC or nitrile inner gloves must be worn during all sampling activities.

Hard hat (must be worn during all activities)

Hi-Vis Vests

**Modified Level D** protection may be required under conditions where potential contact of the skin or clothes with significant contamination occurs. Modified Level D is the same as Level D but includes Tyvek coveralls and disposable polyethylene over boots.

**Level C** protection will initially be worn when completing intrusive activities. Level C protection consists of Level D equipment and the following additional equipment:

Full-face air-purifying respirator (APR) P-100 cartridges

Tyvek coveralls

PE-Coated Tyvek coverall if liquid contamination present PVC or nitrile inner and nitrile outer gloves.

**Level B** protection is not anticipated for this project based on existing conditions, but would consist of Level D equipment and the following additional equipment:

Hard hat

Positive Pressure SCBA or positive pressure airline and respirator with escape SCBA  
PE-Coated Tyvek coverall

Nitrile outer and PVC or nitrile inner gloves

Nitrile boot covers

Hard Soled work boots must be worn at all times on the job site. Open toe, canvas, or

athletic shoes will not be permitted.

Employees and/or visitors, without exception, are required to wear hard hats that meet ANSI Z89.1 requirements, safety glasses with side shields, Hi-Vis Vests, and safety shoes while inside the Project site. Hard hats may not be damaged, painted, deformed, or marked in any way except for markings required to identify the employee, company, craft or title.

### **10.3. Eye and Face Protection**

Eye protection will, at a minimum, consist of safety glasses with side shields that meet the ANSI Z 87.1 standard and will be worn, at all times, in the work area. Prescription glasses must also meet the ANSI standard and be provided with side shields.

### **10.4. Hand Protection**

Through a hazard assessment, the proper PPE (gloves) shall be selected dependent upon the anticipated risks and protection level needed.

Leather or Kevlar gloves shall be worn when handling sharp objects, rough material, or during activities that pose a pinch point hazard. The proper selection of hand protection / gloves shall be worn onsite at all times.

MCI shall select, provide, and require employees to use appropriate hand protection when employees' hands are exposed to hazards such as those from skin absorption of harmful substances; severe cuts or lacerations; severe abrasions; punctures; chemical burns; thermal burns; and harmful temperature extremes. All gloves shall have a minimum ASTM/ISEA/ANSI Level 4 cut resistance and are required 100% of the time while on-site. Any deviation must be reviewed by the Safety Department.

MCI shall base the selection of the appropriate hand protection on an evaluation of the performance characteristics of the hand protection relative to the task(s) to be performed, conditions present, duration of use, and the hazards and potential hazards identified. All gloves shall have a minimum ASTM/ISEA/ANSI Level 4 cut resistance. In addition, gloves shall be worn as specified by manufacturer recommendations of tools, equipment, and material SDS.

Knife use and protection. Trades shall work to reduce their reliance on knife use. Identifying the proper tool for the job is fundamental to safety. If trades discover through the pre-task planning process that knives are the safest choice then special permissions must be obtained prior use.

### **10.5. Reflectorized Apparel**

Reflective vests / high visibility clothing (Level 2) are to be worn on site at all times.

- Vests and high visibility apparel will be orange, yellow, or strong yellow-green in color or fluorescent versions of these colors (flaggers will wear orange) and will include reflective material, white or silver in color, visible for a minimum of 300 m in all directions under headlight illumination.
- Reflective clothing will be designed to clearly identify the wearer as a person and be visible through a full range of body motions.
- Reflective clothing and vests will be closed front and rear. Open front vests will not be permitted.
- All reflective clothing and vests will be in clean condition or replaced as necessary to maintain visibility and reflectivity.

All flaggers will wear Dual Colored Class II Reflective Vests.

### **10.6.Hearing Protection**

Hearing protection will be in accordance with OSHA 29 CFR 1926.52, OSHA 29 CFR 1926.101, and the American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV) booklet section on noise. Hearing protection devices will be provided and worn whenever noise levels are equal to or greater than 85 dBA. Hearing protection requirements will be determined by the SESHR and by posting of signs at the work location.

### **10.7.Respiratory Protection**

The Mark Cerrone Inc. respiratory protection program meets the requirements of 29 CFR 1910.134, Respiratory Protection and Mark Cerrone Inc.'s Respiratory Procedure that covers respirator use. The program defines responsibilities and program methods to minimize personnel exposures to airborne hazards. This program applies to all personnel who are required to use or supervise the use of respiratory protective equipment. Section 15.0 presents the Respiratory Program to be used for project activities.

## **11.0 HAZARD COMMUNICATION PROGRAM**

The OSHA Hazard Communication Standard was promulgated to ensure that all chemicals would be evaluated and that information regarding the hazards would be communicated to employers and employees. The goal of the standard is to reduce the number of chemically related occupational illnesses and injuries.

In order to comply with the Hazard Communication Standard, this written program has been established and will be available for review by any employee.

Basic components of the program include:

- Hazardous Material Inventory System (HMIS);
- Safety Data Sheets;

- Labels and Other Forms of Warning;
- Employee Information and Training;
- Non-routine Tasks; and
- Program Review.

This Hazard Communication Program complies with OSHA 29 CFR 1910.1200 and 29 CFR 1926.59. All workers on the job site will be trained to the program. The Hazard Communication Program is the Worker's Right to Know of the hazards that they may face in their work place. Workers shall be informed of these hazards by the following:

- General Hazard Communication Training included in GET training, that covers how to recognize hazards, identify labels, and read SDS sheets.
- Pre-job safety briefings by the SESHM will identify specific hazards that may be encountered at each work location and with each job task. If a new type of substance is introduced, workers will be trained on its hazards and controls prior to use.
- Hazardous chemicals that employees may be potentially exposed to must be identified and the hazards, warning signs, etc., controls, PPE, will be communicated to the employees.
- SDS sheets will be readily available for all hazardous chemicals used on the site. The SESHM will make them available upon request.

**Every employee should remember that they have the right to ask and receive an answer regarding workplace hazards and exposures without fear of reprisal. Everyone has stop work authority.**

### **11.1. Hazardous Material Inventory System (HMIS)**

A list of known hazardous chemicals (products) used on this project will be prepared and maintained. All chemicals used on this project are purchased materials; there are no manufactured or intermediate hazardous chemicals. This list will be updated as new chemicals are introduced and entered into the inventory.

### **11.2. Hazard Determination**

The Competent Person will evaluate all work activities and associated materials used or to be removed from the site for potential hazards to the worker or environment.

### **11.3. Safety Data Sheets (SDS)**

When chemicals are ordered, the purchaser will request corresponding SDS sheets.

When SDSs arrive, the SESHM will review them for completeness. Should any SDS be incomplete, the manufacturer will be notified and requested to provide additional information.

SDSs for hazardous chemicals will be kept in labeled binders at the job site. SDSs will be available for employees during each work shift.

#### **11.4.Labels and Other Forms of Warning**

All chemical containers at the site will be clearly labeled by the Competent Person as to the contents, the hazards involved, and the name and address of the manufacturer. All secondary containers of hazardous chemicals will also be clearly labeled with the same information as the original container.

#### **11.5.Employee Information and Training**

Prior to starting work, new employees will attend a health and safety orientation program. The Competent Person / ESHM will be responsible for organizing and conducting all phases of HAZCOM training.

The following topics will be covered:

- An overview of the requirements of the Hazard Communication Standard;
- The labeling system and how to use it;
- How to review SDSs and where they are kept;
- Chemicals present in work operations;
- Physical and health effects of hazardous chemicals;
- Methods and observation techniques used to determine the presence or release of hazardous chemicals in the area;
- Personal protective equipment and work practices to lessen or prevent exposure to chemicals;
- Steps the company has taken to lessen or prevent exposure to chemicals;
- Safety/emergency procedures to follow if exposure occurs; and
- Location and availability of the written program.

Following each training session, the employee is required to sign and date the training record verifying attendance.

Before any new employee can begin work that requires the use of or potential exposure to hazardous chemicals, training as indicated above must be completed.

Additional training will be provided with the introduction of each new hazard. Records of this additional training will be maintained on-site.

## **12.0 EXPOSURE MONITORING AND AIR SAMPLING**

Exposure monitoring, and air sampling for potential hazards may be performed and documented during site operations. As required by OSHA, by the ESHM or trained and qualified personnel to detect and control exposures in the workplace. All records will become legal exposure documents that are controlled under 29 CFR 1910.1101. Access to employee exposure and medical records will be limited to the employee,

designated medical personnel, the employee's designated representative and those persons with a need to know origin. The basic approach for monitoring and sampling will be managed by Mark Cerrone Inc.'s CIH / Mark Cotter and will be based on:

- Determining the potential hazard based on site history;
- Selecting sample medium based on professional judgment or standard procedure;
- Identify laboratories certified to analyze the samples;
- Make contractual arrangements;
- Perform both direct – reading and integrated personal exposure (IPE) sampling;
- Submit IPE samples for analysis;
- Analyze data to include % of allowable exposure limits and variation between samples;
- If results are above the allowable limits, controls shall be implemented or re-evaluated.

### **12.1.Suspected Metals Monitoring**

Not anticipated.

### **12.2.Noise Monitoring**

Noise levels will be monitored when loud conditions exist. This monitoring will be accomplished with the use of a sound level meter operated by the SESHM or trained alternate. When threshold levels are reached, hearing protection will be required, and signs delineating the high noise area will be posted.

### **12.3.Carbon Monoxide Monitoring**

The Competent Person will monitor for carbon monoxide (CO) when propane powered forklift, bobcat, or any other internal combustion engine is in operation in excavations as defined by Excavation Permit and/or Confined Space Checklist. Typically, a three- or four-gas meter will be used for monitoring. If initial or subsequent monitoring determines the potential for CO build-up, consideration will be given to providing continuous monitoring.

### **12.4.Dust Control**

Mark Cerrone Inc. will control the dust and particulate emission from the excavation activities utilizing best management practices. All applicable Code of Federal Regulations (CFR) and State of NY Air quality standards and regulations shall be complied with. Dust suppression techniques, during excavation, will be identified in the Environmental Plan.

Mark Cerrone Inc. will review the monitoring results of the airborne particulate dispersion calculations and design the dust suppression system(s) accordingly.

### **12.5.Certification/Calibration of Monitoring Instruments**

All sampling/monitoring equipment will be calibrated by the manufacturer (or calibrating service) and maintained to the manufacturers' specifications, as outlined in the operators' manual. The ESHM, or other trained and qualified personnel, will perform pre-use calibration according to specifications using certified gases or calibration equipment.

## **13.0 RESPIRATORY PROTECTION PROGRAM**

It is Mark Cerrone Inc.'s policy to provide its employees with a safe and healthful working environment. This is accomplished as far as feasible with accepted engineering controls and administrative controls. Where these methods are not feasible, respiratory protection is provided at no cost to the employees to reduce employee exposure to harmful airborne particulates and/or gases and vapors to concentrations, which are predictably non-injurious to most individuals according to standards established by regulatory and/or professional organizations.

Mark Cerrone Inc. has made a commitment to establish and maintain a respiratory protection program consistent with the goal of protecting our employees. Therefore, it is the policy of this company that all employees, when using respirators in the workplace, or administering the respiratory protection program, will adhere to the letter and intent of the outlined in this plan and the Mark Cerrone Inc. HASP.

### **13.1.Program Administration**

The ESHM has total and complete responsibility for the administration of the respiratory protection program in accordance with 29 CFR 1910.134 and ANSI Z88.2-1992.

The ESHM has the authority to act on any and all matters relating to the operation and administration of the respiratory protection program, and all employees.

Respirators will not be issued without medical certification stating the employee is physically fit for respirator use.

### **13.2.Use of Approved Respirators**

Only those respirators jointly approved by the National Institute for Occupational Safety and Health (NIOSH) and the Mine Safety and Health Administration (MSHA) are purchased and used by project personnel. N-95 Dust Masks may be used on a voluntary basis.

### **13.3.Hazard Evaluation for Respirator Selection**

Selection of the proper respirator(s) and filters is made on the basis of hazards to which the employees are exposed only after a determination has been made as to the real and/or potential exposure of employees to harmful concentrations of contaminants in

the workplace atmosphere. This determination is under the direction of the ESHM.

Periodically thereafter, but not less than every 12 months, a review of the real and/or potential exposures is made to determine if respiratory protection continues to be required, and, if so, if the previously chosen respirators still provide adequate protection.

Respirators and filters, appropriate to the hazard, are used only in those locations and/or job functions indicated in this selection documentation.

#### **13.4. Respirator Fitting**

Respirator fitting is done initially upon employment of all new employees whose work will require the use of respirators and annually thereafter or when an employee changes into a job classification requiring respirator protection.

#### **13.5. Respiratory Training**

Training of respirator wearers regarding the use, field maintenance, capabilities, and limitations of respirators is given initially upon employment to all new employees and annually thereafter, whose work will require the use of respirators, or when an employee changes into a job classification that requires respiratory protection.

No employee will be allowed to wear a respirator in a work situation until they have been trained.

#### **13.6. Facial Hair**

No employee is allowed to wear a respirator in the workplace for any work if they have facial hair that comes between the sealing periphery of the face piece and the face, or if facial hair interferes with normal functioning of the exhalation valve of the face piece. Employees must be "clean shaven" prior to donning a respirator for work activities.

#### **13.7. Eye and Face Protection**

Goggles, a face shield, or a welder's helmet may be worn with a respirator, provided that the device does not interfere with the normal positioning on the face.

#### **13.8. Using Glasses with Respirators**

ANSI 87.1 approved corrective lenses or safety glasses may be worn with a half mask respirator provided that the glasses do not interfere with the normal positioning of the respirator on the face.

#### **13.9. Issuance of Respirators**

The ESHM, or Alternate, will issue respiratory protective devices. Respirators will only

be issued to those employees who have in their possession a valid respirator-fitting card. Only a respirator type on which an employee has been currently fit tested and trained will be issued. Respirator cartridges will be selected for the appropriate hazard(s) by the ESHM.

### **13.10. Respirator Inspection**

Prior to each donning of a respirator, the wearer will inspect the device for defects according to the training received. No respirator with a known defect will be permitted to be worn. If found defective during inspection, return the respirator to the ESHM.

During the cleaning and maintenance, all respirators are inspected for defects and worn or deteriorated parts will be replaced prior to reuse. No respirator with a known defect will be reissued for use. No attempt will be made to make repairs on any respirator beyond those repairs recommended by the manufacturer.

### **13.11. Respirator Maintenance**

Respirators will be cleaned after each days use or when soiled by the assigned individual. Respirators are to be cleaned to NIOSH recommendations. Filters for non-routinely used respirators will be disposed of per Waste Management Procedures and manufacturer's instructions. Only original replacement parts may be used on respirators.

### **13.12. Responsibilities during Respirator Use**

It is the responsibility of the Competent Person to supervise the use of respirators and to ensure that respirators are used when they are required and in the manner in which the wearers have been trained.

It is the responsibility of each respirator wearer to wear their respirator when and where it is required, and in the manner in which they were trained. It is the responsibility of each respirator wearer to ensure that the respirator is fully functional at all times and to report any malfunction of the respirator to the Competent Person.

It is the responsibility of each respirator wearer to guard against mechanical damage to the respirator and to ensure that when worn intermittently, the respirator is kept in a clean and sanitary location between wearing.

It is the responsibility of each respirator wearer to ensure that the respirator is properly cleaned and maintained as instructed.

## **14.0 EMERGENCY RESPONSE / ACTION PLAN**

All personnel will be briefed on this plan and will indicate so by signing the briefing roster.

A cellular telephone will be maintained by the Competent Person, or other on-site

crewmembers with health and safety responsibilities.

#### **14.1. First Aid/Medical Care for Injuries**

First aid kits will be maintained by the Competent Person. First aid kits will be 50-unit (kits containing 50 unit-type first aid packages) in accordance with OSHA 1926.50. Kits must be constructed of weatherproof containers easily accessible to all workers. Suitable facilities for quick drenching or flushing of the eyes will also be provided and maintained for immediate use.

#### **14.2. Fires**

A means of egress will be maintained at all times. Vehicles and equipment will be positioned so they will not block access to any exit or main thoroughfare.

Fire protection equipment will be readily available and in working order as required by OSHA 29 CFR 1926.150. All regulations of the OSHA 29 CFR 1926, Subpart F will be followed. Fire protection will be implemented through the use of measures to include effective housekeeping, providing adequate numbers of fire extinguishers, and controlled storage of flammable liquids and other combustible materials.

In the event of a fire, the designated fire protection facility is to be notified immediately. If it is safe to do so and they are properly trained, on-site personnel will attempt to extinguish the fire with the available fire extinguishers and isolate any nearby flammable materials. If a fire occurs in an area where combustible or flammable materials are present, the first action shall be evacuation of all personnel from the area to a remote location upwind of the fire. If there is any doubt about the safety of extinguishing the fire, site personnel will evacuate. The supervisor or knowledgeable employee will provide the fire department with relevant information.

#### **14.3. Inclement Weather**

Exterior work - In the event of an emergency condition, personal injury, or other unusual incident that results in or could have resulted in a personal injury, environmental release, or property damage, the ESHM will be promptly notified. A complete report of all incidents, outlining the causes, corrective actions, and measures taken to prevent recurrence will be prepared.

To ensure immediate notification for reporting of emergencies, radios and/or telephones will be available at the work site.

#### **14.4. Spills**

In the event of a spill or leak, the employee making the discovery will immediately notify his/her supervisor. The supervisor will determine whether the leak is an incidental spill

or whether an emergency response is required. An emergency response is defined in 29 CFR 1910.120 (a) (3) as a response effort by employees from outside the immediate release area or by other designated responders. Responses to incidental releases of hazardous substances where the substance can be absorbed, neutralized, or otherwise controlled at the time of release by employees in the immediate release area, or by maintenance personnel are not considered to be emergency response operations. Incidental releases will be contained and cleaned up by personnel in the area. Instruction will be provided in the cleanup of spills, including the use of spill kits for non-emergency spills.

#### **14.5. Medical Emergency**

In the event of a medical emergency, the Site Superintendent and MCI Safety Manager will be notified immediately. Any event that results in potential employee exposure to blood borne pathogens will require a post-exposure evaluation and follow up as required by 29 CFR 1910.1030. The supervisor will be notified as soon as practical after notifying the SESHM.

#### **14.6. Reporting an Emergency**

Site personnel will be able to communicate by two-way hand-held radio, cellular telephone, or hard-wired phone at the site office.

Telephone

- Dial **911 in event of an emergency.**
- Identify the type and exact location of the emergency.
- Identify who is calling.
- Identify the number on the phone being used.
- Tell whether an ambulance is needed.
- Listen to and follow any instructions that are given.
- Report the type and location of the emergency.
- Identify who is calling.
- Tell whether an ambulance is needed.
- Listen to and follow any instructions.

#### **14.7. Emergency Equipment**

Several items of emergency equipment will be maintained at the work site. These include:

- Cellular telephone and radios;
- Fire extinguisher(s);
- Basic spill kit suitable to handle small spills of hydraulic fluid or fuel; and

- First-aid kit

## **15.0 HAZARD ASSESSMENT DOCUMENTATION**

The work associated with each project phase will be evaluated to identify specific hazards to which personnel may potentially be exposed and will also identify the appropriate control measures for those hazards. Mark Cerrone Inc. will document the hazards and control measures to be taken as prescribed in the AHA's.

## **16.0 HEALTH AND SAFETY RECORDS**

All health and safety documents and records generated from the requirements of the contract will be maintained at the job site and immediately available for inspection by Customer, (e.g., OSHA 300 Log of Occupational Injury and Illness).

In addition, records of pre-job briefings, safety meetings, training records, site inspections, SDS', and other sampling and analysis records will be maintained on site.

## **17.0 INCIDENT REPORTING**

MCI Construction will be immediately notified of any employee injury/illness and any accident, incident, near-miss (potential bodily injury/illness or damage to equipment and facilities), potential Price Anderson Amendment Act (PAAA) noncompliance, environmental release, or any other unplanned event that may be a violation of a regulatory requirement or that may be viewed negatively by the public. Mark Cerrone Inc. shall investigate each injury/illness, accident, incident, near miss, or environmental noncompliance. Incident reports and other applicable reports (i.e., First Reports of Injury) shall be completed and submitted to MCI within 24 hours after occurrence of the incident.

## **18.0 EMERGENCY ASSISTANCE**

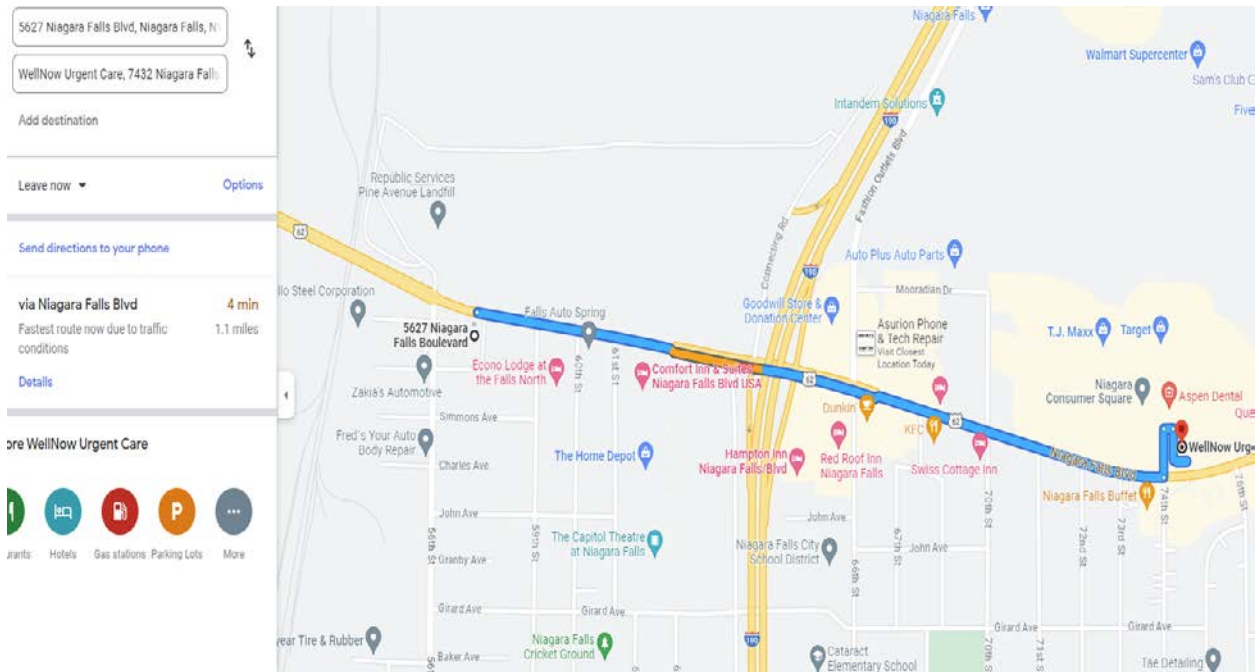
The Competent Person will maintain a Company vehicle on-site to transfer an injured worker to:

The below medical facilities have been designated as the closest primary care facilities for this project. The name, telephone, address, map and driving directions shall be posted on the jobsite and available to all employees and subcontractors.

- 1) The designated occupational emergency medical facility for this project:

**# 911**

**Wellnow Urgent Care  
743 Niagara Falls Blvd, NF NY**



Evacuation - In the event of an emergency, all personnel shall leave work site and assemble at parking lot gate.

## 19.0 SAFETY MEETINGS AND RECORDS

Mark Cerrone Inc. will provide a Daily Pre-task Hazard Review/Job Hazard Analysis briefing for their personnel that specifically address the hazards and mitigating controls for work to be performed that day. In addition, Mark Cerrone Inc. will conduct formal weekly employee safety and health meetings.

A record of attendance and topics covered at Pre- and Post-Job briefings, Daily Pre-task Hazard Review/Job Safety Analysis briefings, and weekly employee safety and health meetings shall be documented and maintained on the job site for the duration of the subcontract.

**WORKER SSHASP AKNOWLEDGEMENT CERTIFICATION - FORM #1.0**

All Contractor personnel, Subcontractor personnel, visitors, and other qualified persons requesting entry to the MCI work areas are required to complete Worker HASP Certification Form to acknowledge their understanding of this HASP.

NOTE: A copy of this HASP will be maintained by Mark Cerrone, Inc. in the field office for review by Government, Contractor, and/or Subcontractor personnel.

I hereby confirm that site-specific health and safety training has been conducted by the site Competent Person that included:

- Names of personnel responsible for site safety and health
- Safety, health, and other hazards at the site
- PPE Requirements and Proper use of personal protective equipment
- Work practices by which the employee can minimize risk from hazards
- Safe use of engineering controls and equipment on the site
- Acute effects of compounds at the site
- Infectious Disease Control / Decontamination procedures

**The following undersigned certify that this Site-Specific Health and Safety Plan (SSHASP) has been communicated and I understand the Site Safety Rules for worker protection and maintain regulatory compliance**

Printed Name	Signature	Company	Date

**INDEX OF ACTIVITY HAZARD ANALYSIS (AHA)  
FOR  
MCI – NCDEP PROJECT**

<b>NUMBER</b>	<b>DESCRIPTION OF ACTIVITY HAZARD ANALYSIS</b>	<b>REVISION</b>
AHA-01	Aerial Lift Safety Requirements (Personnel and Equipment)	0
AHA-02	POWERED MOBILE EQUIPMENT (Forklift)	0
AHA-03	Nuisance Dust and Hazardous Air Contaminants	0
AHA-04	Confined Space Entry (Permit Required Spaces)	0
AHA-05	Hoisting/Crane Operations	0
AHA-06	Basic Electrical Safety (Tools, Cords and Temporary Lighting)	0
AHA-07	Electrical Safety: Work On or Near Energized Circuits	0
AHA-08	Elevated Work/Fall Protection	0
AHA-09	Excavation/Trenching	2
AHA-10	Working with Man-Made Fibers (Fiberglass Insulation)	0
AHA-11	Flammable and Combustible Material Handling and Storage	0
AHA-12	General Safety Requirements	2
AHA-13	Hand/Power Tools and Portable Equipment	0
AHA-14	General Demolition	0
AHA-15	Ladder Safety	0
AHA-16	Lead Exposure	0
AHA-17	Control of Hazardous Energy – Lockout/Tagout	0
AHA-18	Rigging Safety	0
AHA-19	Material Handling	0
AHA-20	Operation of Mobile Equipment (Bobcat, Skid Steer Loader, etc.)	0
AHA-21	Safeguards for Floor and Wall Openings	0
AHA-22	High Pressure Washing	0
AHA-23	Asbestos	0
AHA-24	Track Excavator Hydraulic Shear/Grapppler/ Bucket Use	0
AHA-25	Signs and Barricades (General Requirements)	0
AHA-26	Welding/Cutting	0
AHA-27	Scaffold Safety	0
AHA-28	Assembly of Equipment on Site	0
AHA-29	Explosive Control	0
AHA-30	Universal Waste Handling	0
AHA-31	Fueling of Equipment on Site	0
AHA-32	Working Near or Over Water	0
AHA-33	Terminal Cleaning of Infectious areas – COVID-19	0
AHA-34	Construction Work Infectious Disease COVID-19 Control	3
AHA-35	Office, Warehouse Work Infectious Disease COVID-19 Control	3

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title:** Nuisance Dust and Hazardous Air Contaminants

**Number:** AHA-03      **Revision No:** 1

**Reviewed by/date:** MP 2019

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
Personnel and Area Monitoring Pumps to establish exposure assessments. Dust suppression equipment, water truck, water extinguishers, etc.	Continuous evaluations of work practices will be conducted to monitor nuisance dust and hazardous air contaminants. These evaluations will be supported by exposure assessments.	Awareness Training will be administered during Initial Site Orientation and Dust suppression activities will be On the Job Training (OJT).

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Concrete work  Demolition	<ul style="list-style-type: none"> <li>Respiratory – Possible Contaminates based on site evaluation.               <ol style="list-style-type: none"> <li>Lead</li> <li>Silica</li> <li>PCB</li> <li>Dust</li> <li>Coal Dust</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>Before entering an area which contains, or may contain poisonous or noxious gases, fumes, harmful particulates, and particulate matter based on prior air monitoring data an approved respirator for the specific hazard shall be worn unless the hazard can be controlled or eliminated by Engineering or Administrative controls.</li> <li>All activities that may generate a Respiratory hazard will be evaluated by Health and Safety and specific safe work practices shall be implemented.</li> <li>MCI Health and Safety shall perform air monitoring for activities that may generate respiratory hazards.</li> <li>All structures to be demolished shall be surveyed for the presence of hazardous material.</li> <li>Water spray / misting / ventilation shall be used during Excavation / Demolition to suppress nuisance dust and hazardous air contaminants.</li> </ul>
	<ul style="list-style-type: none"> <li>Eye</li> </ul>	<ul style="list-style-type: none"> <li>Safety glasses are worn as a minimum site requirement, while goggles and/or face shields used in combination as needed.</li> </ul>

NOTES:

- Employees have stop work authority for safety concerns.
- Applicable sections of this AHA shall be covered during Pre-Job Briefings.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title:** BASIC ELECTRICAL SAFETY (TOOLS, CORDS AND TEMPORARY LIGHTING)  
**Number:** AHA-06      **Revision No:** 0      **Reviewed by/date:** MP 2020

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
Electrical Tools / Equipment in accordance with 29 CFR 1926.400	Inspections shall take place prior to each use and will be conducted by the user One or more competent persons must be designated (as defined in 1926.32(f) to implement the program.	Basic electrical safety will be administered during Initial Site Orientation and throughout the project in Tool Box Meetings. On the Job Training for specialty tools will be as needed.

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Work involving electrical tools and/or equipment	<ul style="list-style-type: none"> <li>Injury caused by use of defective equipment</li> <li>Electrocution</li> </ul>	<ul style="list-style-type: none"> <li>Only qualified electricians shall perform electrical installations, repairs, and maintenance operations.</li> <li>Employees shall inspect cords and tools prior to use. Damaged tools/cords shall be tagged "Do Not Use", "Out of Service", or with a tag of similar wording and removed from service.</li> <li>Portable electric tools and all cord and plug connected equipment shall be protected by a Ground Fault Circuit Interrupter (GFCI) device.</li> <li>GFCIs shall be tested daily by pressing the test button with a minimal load attached to verify that the GFCI cuts power to the load when the "test" button is pressed and restores power when the "reset" button is pressed.</li> <li>No more than 3 cords can be plugged into each GFCI run. GFCIs cannot be piggy backed together. Cord length shall not exceed 300 feet per GFCI run.</li> </ul>
	<ul style="list-style-type: none"> <li>Damage to cords, shock</li> </ul>	<ul style="list-style-type: none"> <li>Cords shall be protected from damage from sharp edges, projections, pinch points and vehicular traffic.</li> <li>Cords shall be kept out of standing water, except for those devices designed for use in water.</li> <li>Non-conductive ties (rope, plastic) shall be used to hang/secure cords.</li> <li>Cords shall not be placed over sharp or rough surfaces. To prevent cord damage, softeners should be used.</li> </ul>
Office Trailer electric set-up	<ul style="list-style-type: none"> <li>Damage to cords, tripping, shock, fire</li> </ul>	<ul style="list-style-type: none"> <li>Extension cords shall not be used within office trailers. If necessary Trailers are to be wired with enough outlets and in locates needed.</li> <li>Refrigerators, microwave ovens, and coffee makers shall not be plugged into "power strips". Power strips are only to be used for computers, printers, air monitoring charging, and similar low-load equipment.</li> </ul>
Hanging temporary lighting	<ul style="list-style-type: none"> <li>Short circuit, shock</li> </ul>	<ul style="list-style-type: none"> <li>All bulbs on temporary lighting systems shall have a protective cage.</li> <li>Temporary lighting shall be plugged into a GFCI. Where possible, cords should be suspended using non-conductive hangers (rope, plastic ties, etc.)</li> </ul>
	<ul style="list-style-type: none"> <li>Coming into contact with buried electrical lines</li> </ul>	<ul style="list-style-type: none"> <li>An excavation/penetration permit is required before driving ground rods.</li> <li>The location of buried electrical and utility lines shall be identified and marked. Penetrations shall not come within 3' of buried lines. Penetrations within 3' of buried lines shall be dug by hand.</li> </ul>

**NOTES:** Employees have stop work authority for safety concerns and Applicable sections of this AHA shall be covered during Pre-Job Briefings.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: ELECTRICAL SAFETY: WORK ON OR NEAR ENERGIZED CIRCUITS**

**Number: AHA-07      Revision No: 1**

**Reviewed by/date: MP 2021**

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
All Tools and Equipment shall be in accordance with 29 CFR 1926-950	All safeguards for work on or near energized circuits shall be inspected prior to each shift One or more competent persons must be designated (as defined in 1926.32(f) to implement the program.	Training for working on or near energized lines shall be administered during Initial Orientation and throughout the project

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Work on or near energized circuits	<ul style="list-style-type: none"> <li>Unqualified personnel performing work</li> </ul>	<ul style="list-style-type: none"> <li>Only trained and qualified electricians shall be allowed to work on or near energized circuits.</li> <li>All employees who perform electrical work shall comply with the PPE and safe work requirements.</li> <li>PPE requirements are dependent upon the type of work to be performed and the voltage and may include: flame resistant coveralls, dielectric gloves, rubber mats, safety glasses, non-conductive hard hat. Hoods and face shields will be required for additional protection from arc flash.</li> </ul>
	<ul style="list-style-type: none"> <li>Contact with energized circuits</li> </ul>	<ul style="list-style-type: none"> <li>All equipment and circuits shall be treated as energized until Lockout/Tagout protection is in place and the equipment or circuit has been tested to verify no voltage by an electrician.</li> <li>The work area shall be cleared of all unnecessary materials and equipment. Access to the immediate area shall be restricted by establishing a Flash Protection Boundary. For systems 600 v and below, the Flash Protection Boundary distance is 4 feet. For systems above 600 v, the Flash Protection Boundary must be calculated by an electrical engineer in accordance with NFPA 70E.</li> <li>All structures shall be verified cold &amp; dark before demolition begins.</li> <li>Additional safety controls (insulating blankets, insulated tools, etc.) should be used whenever possible.</li> <li>Only non-conductive ladders (fiberglass) are approved for electrical work.</li> <li>Conductive items such as: watches, jewelry, non-insulated tools and other materials shall not be worn or placed on or around energized equipment and circuits.</li> </ul>
Resetting circuit breakers and switches	<ul style="list-style-type: none"> <li>Electrical system failure</li> </ul>	<ul style="list-style-type: none"> <li>When a circuit breaker or GFCI trips or fails the foreman shall attempt to determine the cause of the trip or failure. An electrician should determine the failure cause if not apparent or if 240 v or greater is involved.</li> </ul>
Penetrations	<ul style="list-style-type: none"> <li>Contacting energized circuits</li> </ul>	<ul style="list-style-type: none"> <li>A search for possible energized circuits shall be performed prior to making any penetration. Visual inspections, drawing search and utility location shall be conducted, as necessary. Instruments such as electronic tracers or ground penetrating radar may be used.</li> <li>If surface is drywall over studs, visual or mechanical stops shall be used on drill bits, saw or other tool to limit penetration to the thickness of the drywall. Exploratory measures shall be taken before deeper penetrations are made. Use of a "drill stop" or battery powered tools is recommended. Safety glasses and 00 gloves shall be used as a minimum.</li> </ul>
Electrical strip-out	<ul style="list-style-type: none"> <li>Cutting wires thought to be de-energized</li> </ul>	<ul style="list-style-type: none"> <li>Before cutting wires ensure that Lockout/Tagout is in place and a no voltage verification check has been made. Ensure that each wire is de-energized individually. Verification for this check may be performed with a proximity device (tic tracer, etc.).</li> <li>Use electrical PPE when cutting the wires. Electrical PPE requirements shall be determined by the electrical supervisor/lead.</li> </ul>
Vehicle, equipment and personnel clearances	<ul style="list-style-type: none"> <li>Accidental contact with energized lines</li> </ul>	<ul style="list-style-type: none"> <li>Vehicle or mechanical equipment shall maintain a clearance of 10 feet from energized overhead lines. Clearance distances may be adjusted downward under the following circumstances: equipment is insulated for the voltage involved; insulating barriers rated for the voltage to be encountered are used; and work is being performed by a trained and qualified electrician.</li> <li>Employees on ground shall not come into contact with the vehicle or equipment.</li> </ul>
<p><b>NOTES:</b></p> <ol style="list-style-type: none"> <li>Employees have stop work authority for safety concerns.</li> <li>Applicable sections of this AHA shall be covered during the Pre-Job Briefings.</li> </ol>		

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: ELEVATED WORK/FALL PROTECTION**

**Number: AHA-08 Revision No: 2**

**Reviewed by/date MP 2022**

**PREREQUISITES**

EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Designated Fall Protection Equipment, pre-approved by the Site Safety & Health Manager (SSHM).	All designated Fall Protection Equipment will have been quarterly inspected by the SSHM and daily inspected by user prior to each usage.	General Fall Protection Training will be administered during Initial Orientation. Specific training will be conducted for designed systems as documented in the Site Specific Fall Protection Plan

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
Working at elevated heights	<ul style="list-style-type: none"> <li>Falls from heights at 4 feet or greater</li> <li>Inadequate anchorage points</li> </ul>	<ul style="list-style-type: none"> <li>Employees involved with elevated work and fall protection systems shall be trained accordingly.</li> <li>Fall protection is required for employees exposed to a potential fall of 4 feet or greater.</li> <li>Fall protection may consist of one of the following: guardrail systems, personal fall arrest systems, fall restraint systems, warning line systems, and safety monitoring systems (spotter).</li> <li>Walking/working surfaces shall be protected to prevent employees from falling through holes more than 6 feet above lower levels by personal fall arrest systems, covers, or guard rail systems around the holes. Covers and guardrail systems shall have a sign posted, identifying the hazard.</li> <li>Anchorage for attachment of fall arrest and fall restraint systems shall be capable of supporting 5000 pounds per worker attached. Anchorages shall be installed according to the manufacturer's instructions to ensure that the installation supports the required load rating.</li> <li>Self-retracting double leg lanyards shall be provided &amp; used when fall prevention at heights of less than 18 FT.</li> </ul>
	<ul style="list-style-type: none"> <li>Falling objects</li> </ul>	<ul style="list-style-type: none"> <li>Elevated work areas/platforms shall use toeboards, screens, barricades or canopies to prevent objects from falling from higher levels. Employees below shall wear hard hats.</li> <li>If necessary, barricade and post the area below to which objects could fall onto. Restrict access to the area.</li> </ul>
	<ul style="list-style-type: none"> <li>Equipment failure</li> </ul>	<ul style="list-style-type: none"> <li>Fall protection equipment, including temporary guard-rail systems shall be inspected prior to each use for wear, damage, and other deterioration.   Anchor points for fall arrest, such as beam clamps shall be inspected prior to each use. Defective components shall be tagged and removed from service.</li> <li>Personal fall arrest and restraint systems shall not be repaired. If found defective, equipment shall be discarded and replaced.</li> </ul>
Roof work	<ul style="list-style-type: none"> <li>Fall from roof</li> </ul>	<ul style="list-style-type: none"> <li>Employees engaged in roofing activities (low slope roofs) with unprotected sides and working at heights above 6 feet shall be protected any of the following: personal fall arrest system, fall restraint system, guard rail, warning line system, or safety monitoring system.</li> <li>If a warning line system is used, the line shall be erected around all sides of the roof work area.</li> <li>The line shall be erected no less than 15 feet from the roof edge.</li> <li>If a safety monitoring system is used, the person monitoring shall be competent to recognize fall hazards and be located close enough to the worker to communicate verbally. This person shall have no other responsibilities other than to keep the worker a safe distance from the edge.</li> </ul>
	<ul style="list-style-type: none"> <li>Damage to fall protection equipment due to improper storage or maintenance</li> </ul>	<ul style="list-style-type: none"> <li>Fall protection equipment shall not be modified or repaired. Synthetic materials shall not be painted.</li> <li>Fall protection equipment shall be stored and maintained per manufacturer's recommendations.</li> </ul>

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
	<ul style="list-style-type: none"> <li>• Failure of standard railings</li> </ul>	<ul style="list-style-type: none"> <li>• All standard railings shall be constructed to withstand a load of 200 lbs in any direction with minimal deflection. Where guardrail systems are in place – the top edge height of top rails, or equivalent guardrail system members, shall be 42 inches, plus or minus 3 inches, above the walking/working level. Mid-rails, screens, mesh shall be installed between the top edge of the guardrail system and the walking/working surface when there is no wall at least 21 inches high.</li> </ul>

**NOTES:**

1. Employees have stop work authority for safety concerns.
2. Applicable sections of this AHA shall be covered during the Pre-Job Briefings and in MCI Site Specific Fall Protection Plan.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title:** EXCAVATION / TRENCHING  
**Number:** AHA-09 **Revision No:** 2

**Reviewed by/date:** MP 2020

PREREQUISITES		
EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Various Size hydraulic Excavators with bucket attachment. Shoring boxes Ladders, Road Plates Pumps	Completion of Equipment Inspection Form for Incoming Inspection and subsequent daily pre-use inspections thereafter. Excavation / Trench Inspections shall be completed & documented by competent person prior entering excavation.  If Sloping system options on 20 foot + excavation depth are used, slope shall be calculated by specific States Professional Engineer under 29CFR1926.650(b).	Only trained and qualified personnel will be allowed to operate equipment.  OSHA-10 hr. taken within past 5 years.

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
Excavation/Trenching	• No Competent Person in charge	• All excavations/trenches must have a competent person in charge that is capable of identifying existing and predictable hazards and has authorization to take prompt corrective actions.
	• Electrical	• GFCI's, assured grounding, daily inspection of all cords and cord connected tools. • Keep cords out of water. Keep extensions cords off electrically conductive items.
	• Surface Encumbrances	• Remove or support all surface encumbrances that could be hazardous.
	• Underground Utilities	• Contact Utility Companies (One Call / Dig Safe) to determine locations of underground utilities.
	• Access and Egress	• Provide safe access and egress for excavations and trenches that are four feet or more in depth. • For trenches, a stairway, ladder or ramp must be provided for every 25 feet of lateral travel.
	• Vehicular Traffic	• Personnel exposed to vehicular traffic shall wear high visibility reflective vests.
	• Falling Loads	• Personnel shall not stand underneath loads handled by lifting or digging equipment. • Personnel shall not stand next to vehicles being loaded or unloaded.
	• Mobile Equipment	• Warning systems such as barricades, hand or mechanical signals, or stop logs shall be utilized when mobile equipment is operated adjacent to or at the edge of an excavation. Obtain visual contact with operator prior approaching operating equipment.
	• Hazardous Atmospheres	• Atmospheres in excavations and trenches that are four feet or deeper shall be tested if an atmospheric hazard can be reasonably expected. This will be determined by the competent person. Stop work & Notify client if unforeseen conditions are found.
• Accumulated Water	• Personnel are prohibited from entering excavations and trenches that have accumulated water. • Water must be controlled to prevent accumulation before personnel can enter. • Excavations subject to run off from heavy rains must be re-inspected immediately by the competent person	
• Adjacent Structures	• Adjacent structures shall be evaluated to determine if shoring, bracing, or underpinning is needed to ensure stability.	

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
	<ul style="list-style-type: none"> <li>Loose Soil and Rock</li> </ul>	<ul style="list-style-type: none"> <li>Personnel shall be protected from loose rock and soil that could pose a hazard by falling or rolling from an excavation face.</li> <li>Excavated or other material and equipment shall be placed at least two feet from the edge of the excavation or retaining devices shall be used.</li> <li>Personnel shall not be permitted to work on the faces of sloped or benched excavations at levels above other personnel, unless personnel at the lower level are protected from falling, rolling, or sliding material or equipment.</li> </ul>
	<ul style="list-style-type: none"> <li>No Inspections</li> </ul>	<ul style="list-style-type: none"> <li>Daily inspections shall be performed by the competent person in charge of the excavation.</li> </ul>
	<ul style="list-style-type: none"> <li>Falls</li> </ul>	<ul style="list-style-type: none"> <li>Standard guardrails shall be used for all walkways and bridges that cross over an excavation at or above six feet.</li> <li>All remotely located excavations and excavations not readily seen shall be barricaded or covered.</li> <li>All temporary wells, pits, shafts and similar exploratory operations shall be back filled upon completion.</li> <li>Open sided excavations/trenches where there is an exposure to a fall of six feet or more to a lower level shall be barricaded or guarded with a standard guard rail system.</li> </ul>
	<ul style="list-style-type: none"> <li>Confined Spaces</li> </ul>	<ul style="list-style-type: none"> <li>All excavations/trenches shall be evaluated at four feet in depth to determine if they meet the definition of a confined space by the Safety Department.</li> <li>If the space is determined to be a permit required confined space, MCI HASP shall be followed.</li> </ul>
	<ul style="list-style-type: none"> <li>Cave Ins</li> </ul>	<ul style="list-style-type: none"> <li>Protective systems or walls cut back to protect workers shall be used for all excavations/trenches that are 5 feet or more in depth.</li> </ul>
	<ul style="list-style-type: none"> <li>Soil Classification</li> </ul>	<ul style="list-style-type: none"> <li>All soil on site is classified Type C, unless deemed otherwise by the Competent Person.</li> </ul>
	<ul style="list-style-type: none"> <li>Training/Briefing</li> </ul>	<ul style="list-style-type: none"> <li>All entrants into an excavation/trench shall be properly briefed and trained for the task they will be performing.</li> </ul>

**NOTES:**

- Employees have stop work authority for safety concerns.
- Applicable sections of this AHA shall be covered during Pre-Job Briefings.
- 20 foot + excavation depth shall have slope calculated by States Professional Engineer under 29CFR1926.650(b)

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: FLAMMABLE AND COMBUSTIBLE MATERIAL HANDLING / USE AND STORAGE**

**Number: AHA-11 Revision No: 1**

**Reviewed by/date: MP 2021**

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
All equipment will be in accordance with 29 CFR 1926.152-153	Weekly Documented Inspections shall occur for storage cabinets and daily evaluations shall take place for work practices	Initial Site Orientation and throughout the project with Prejob Briefings / POD - Plan of Day

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Handling flammable and combustible materials	<ul style="list-style-type: none"> <li>• Presence of ignition sources</li> </ul>	<ul style="list-style-type: none"> <li>• Flammable and combustible materials shall be kept 35 feet from any hot work, open flames, or spark producing equipment.</li> <li>• Signs prohibiting smoking or open flame shall be posted near flammable material storage areas.</li> </ul>
	<ul style="list-style-type: none"> <li>• Improper storage</li> </ul>	<ul style="list-style-type: none"> <li>• Only UL or NFPA approved containers shall be use for the storage of flammable or combustible liquids.</li> <li>• Storage areas shall be kept free of unnecessary combustible materials.</li> <li>• Flammable and combustible materials shall be stored in flammable safety cabinets.</li> <li>• Flammable or combustible liquids shall not be stored in areas used for exits, stairways, or normally used for the safe passage of people.</li> <li>• Compressed gas cylinders and flammable or combustible liquids SHALL be removed from any material drop exclusion zone.</li> <li>• Oxygen shall be separated from fuel gas by 20 feet when in storage.</li> <li>• Compressed gas cylinders shall be kept from heat sources and flammable liquids.</li> <li>• Cylinders shall be stored off the ground and positioned upright and secured.</li> <li>• Adequate ventilation shall be provided where flammable liquids are stored.</li> </ul>
	<ul style="list-style-type: none"> <li>• Improper labeling</li> </ul>	<ul style="list-style-type: none"> <li>• Containers shall identify the contents and provide appropriate hazard warnings.</li> </ul>
	<ul style="list-style-type: none"> <li>• Fire at storage sites</li> </ul>	<ul style="list-style-type: none"> <li>• A fire extinguisher shall be mounted in close proximity (20 feet-50 feet) to storage areas and on all vehicles dispensing flammable/combustible materials.</li> <li>• The location of fire extinguishers shall be easily identifiable, unobstructed and mounted (if possible) with sign posted.</li> </ul>
	<ul style="list-style-type: none"> <li>• Fire during refueling</li> </ul>	<ul style="list-style-type: none"> <li>• Engines shall be turned off during refueling.</li> <li>• Smoking is PROHIBITED while refueling.</li> </ul>
	<ul style="list-style-type: none"> <li>• Personal injury due to handling</li> </ul>	<ul style="list-style-type: none"> <li>• Personnel shall use appropriate PPE, as outlined on the SDS, when handling combustible or flammable materials (i.e. gloves and safety glasses), as necessary.</li> </ul>
	<ul style="list-style-type: none"> <li>• Spills or leaks</li> </ul>	<ul style="list-style-type: none"> <li>• Leakage or spillage of flammable or combustible liquids shall be contained, cleaned up and disposed of promptly and safely in accordance with applicable site disposal criteria. Spill kits shall be onsite prior equipment mobilization. Customer contact is to be immediately notified.</li> </ul>
	<ul style="list-style-type: none"> <li>• Fire/Burns/injuries</li> </ul>	<ul style="list-style-type: none"> <li>• All personnel handling flammable/combustible materials shall be properly trained with valid certificates in the safe handling, use and storage of the materials.</li> </ul>

**NOTES:**

1. Employees have stop work authority for safety concerns.
2. Applicable sections of this AHA shall be covered during Pre-Job Briefings.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

Title: GENERAL SAFETY REQUIREMENTS  
Number: AHA-12 Revision No: 2

Reviewed by/date: MP 2022

PREREQUISITES		
EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Hardhat, Safety Glasses w/ Sideshields, Safety Toed Work Boots and Glove are the minimum requirement. Ear Plugs, respirators, additional lighting, etc., will be prescribed as needed on the Job Safety Analysis (JSA).	All Personal Protective Equipment shall be inspected prior to each use.	PPE Training will be administered by the Competent Person during the Initial Site Orientation. OSHA-10 hr. taken within past 5 years.

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
General Site Activities	• Head injury	• Hard hats shall be worn at all times in the construction/demolition area, unless otherwise specified.
General Labor, Equipment Operator, Surveyor, Inspector, All Tasks.	• Eye injury	• Protective eyewear with side shields which meets ANSI Z-87.1 specifications shall be worn at all times in the construction/demolition area. The only exception being when wearing a full-face respirator or goggles. • Safety glasses with Dark tint may not be worn in conditions of limited lighting. Clear or amber lenses are acceptable for indoor or low light conditions.
	• Hearing loss	• Hearing protection shall be worn when noise levels exceed 85 dB(A). Areas requiring hearing protections shall be posted. Only hearing protection approved by Health and Safety shall be used.
	• Foot injury	• Protective footwear shall be worn at all times in construction areas and shall meet ANSI Z-41 requirements.
	• Hand injury	• Nails from scrap lumber shall be pulled or bent over. • Leather or Kevlar gloves shall be worn when handling sharp objects, rough material, or during activities that pose a pinch point hazard.
	• Back injury	• Employees shall use proper lifting techniques when handling tools / materials and shall not lift more than 50 lbs, unassisted.
	• Struck by	• Approved Reflective vests shall be work on site.
	• Inadequate lighting	• Temporary lighting shall be used in dark work areas. The minimum illumination for exterior pathways and access is 3 foot-candles. Required illumination in general work areas is 5 foot-candles. In potentially flammable areas the LEL shall be 10% or less and use only intrinsically safe equipment.
	• Slip/trip/fall hazards	• Precautions shall be taken to minimize slippery conditions when working in wet or snowy weather. • Basic housekeeping requirements shall apply to all construction sites. Egress routes shall be kept clear and clutter minimized. • Employees involved with elevated work and fall protection systems shall be trained accordingly. • Fall protection is required for employees exposed to a potential fall of 6 feet or greater. • Fall protection may consist of one of the following: guardrail systems, personal fall arrest systems, fall restraint systems, warning line systems, and safety monitoring systems (spotter). • Floor holes 2"X2" must be covered, secured and labeled. • Personnel shall use caution during the covering of debris piles due to the possible tripping hazards extending from the debris pile.
	• Visitors/support personnel exposed to potential jobsite hazards	• Visitors shall be briefed of safety requirements and hazards prior to entering the work area. • Appropriate clothing, shoes, and other required PPE shall be worn as necessary.
	• Heat and Cold Stress	• Employees shall be trained in the recognition of heat and cold stress symptoms and appropriate precautions to include staying hydrated and taking breaks.
	• Respiratory	• Respiratory Protection will be evaluated by Health & Safety and if required employee shall adhere to MCI's Respiratory Protection Program.
	• Access Hazards	• All access to scaffolds, ladders and work areas must have safe access.
	• No Training	• All employees shall receive specific training for their work activities and attend MCI's Safety Orientation. NOTE: Certain individuals will be required to have OJT training (On the Job Training).

NOTES:

1. Employees have stop work authority for safety concerns.
2. Applicable sections of this AHA shall be covered during Pre-Job Briefings.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOSITES**

**Title:** HAND/POWER TOOLS AND PORTABLE EQUIPMENT

**Number:** AHA-13      **Revision No:** 2

**Reviewed by/date:** MP 2021

PREREQUISITES		
EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Site Approved tools and equipment used for the purpose the manufacturer intended. Manufactures Instructions shall be followed.	All Tools and Portable Equipment shall be inspected prior to each use.	On the Job Training (OJT) will be conducted for all Tools and Portable Equipment. This OJT will be administered by a Mark Cerrone Inc. assigned competent person.

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
Using Hand and Power Tools  Grinders, Chop-saws, Reciprocating saws, Circular saws, Band Saws, Chain Saws, All types of power tools.	<ul style="list-style-type: none"> <li>Injury due to equipment misuse, use of damaged/defective equipment</li> </ul>	<ul style="list-style-type: none"> <li>All tools (hand and power) and equipment shall be inspected prior to use and used only for the purpose for which they were designed. Equipment, which is damaged, or defective shall be tagged and removed from service.</li> <li>Avoid accidental starting. Be sure the on/off switch is in the off position before plugging the cord in. Carrying tools with your finger on the switch or plugging in tools with the switch in the "ON" position can lead to an accident.</li> <li>Maintain hand and power tools in good repair, with all required safety devices installed and properly adjusted. Tools shall be used only for their intended purpose.</li> <li>Guards and switches shall be maintained and used in accordance with the manufacturer's instructions.</li> <li>Electric tools shall be unplugged when changing attachments or performing maintenance.</li> <li>Sections of air hoses, which are not equipped with quick release fittings, shall be secured with a safety chain or tie.</li> <li>Operator will have full control of hand and power tools at all times when in use. Do not overreach. Keep proper footing and balance at all times.</li> <li>Pneumatic tools shall be disconnected and air pressure released before repair or adjustments are made.</li> <li>Manufacturers' safe operating pressures for hydraulic hoses, valves, pipes, filters and other fittings shall not be exceeded.</li> <li>Only non-sparking tools shall be used in locations where sources of ignition may cause fire or explosion.</li> <li>Fuel powered tools (generators, tamps, pumps, etc.) shall be turned off during refueling.</li> <li>The rated capacity of hydraulic jacks shall not be exceeded.</li> </ul>
	<ul style="list-style-type: none"> <li>Electric Shock</li> </ul>	<ul style="list-style-type: none"> <li>Electric tools with missing ground prongs or cut or frayed cords shall be removed from service and tagged.</li> <li>Electric tools used in highly conductive locations, such as where the employee may contact water, shall be approved for use in those locations.</li> <li>Power for portable electric tools shall be supplied from a GFCI receptacle.</li> <li>Electric tools must be grounded, except tools, which are equipped with double insulation.</li> <li>Electric tools shall not be used in hazardous locations such as flammable or explosive atmospheres unless they are approved for such locations.</li> </ul>

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOSITES**

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
Fuel Powered Equipment: Indoor use / Minimal ventilation	<ul style="list-style-type: none"> <li>Asphyxiation/carbon monoxide poisoning</li> </ul>	<ul style="list-style-type: none"> <li>The use of fuel powered tools in confined spaces or areas with minimal ventilation shall be prohibited unless special approval has been received from Health and Safety. Gasoline, diesel and propane powered equipment shall only be used in well-ventilated areas to prevent the buildup of carbon monoxide gas.</li> <li>Carbon monoxide concentrations shall be monitored when gasoline, diesel or propane powered equipment is operating in the building or areas with limited ventilation.</li> </ul>
	<ul style="list-style-type: none"> <li>Face &amp; Eye hazards from flying debris</li> </ul>	<ul style="list-style-type: none"> <li>Eye protection shall be worn at all times when working with hand and portable power tools.</li> <li>Face Shields shall be worn while using grinders and chop saws.</li> <li>Tools should be selected that are designed to keep wrists straight to help avoid repetitive motion.</li> </ul>
Powder actuated tools	<ul style="list-style-type: none"> <li>Eye Hazards/ Hearing/ Injury due to misuse/explosive charges</li> </ul>	<ul style="list-style-type: none"> <li>Only employees who have been trained in the operation of the particular tool in use shall be allowed to operate a powder actuated tool.</li> <li>The tool shall be tested each day prior to loading in accordance with manufacturer recommendations.</li> <li>Any tool not found in proper working order shall be removed from service.</li> <li>Tools shall not be loaded until just prior to the intended firing time.</li> <li>Tools should not be pointed at employees at any time; hands shall be kept clear of the open barrel.</li> <li>Loaded tools shall not be left unattended.</li> <li>Tools should not be used in an explosive or flammable atmosphere.</li> <li>Fasteners shall not be driven into very hard or brittle materials including, but not limited to, cast iron, glazed tile, surface-hardened steel, glass block, live rock, face brick or hollow tile.</li> <li>Driving into materials easily penetrated shall be avoided unless such materials are backed by a substance that will prevent the pin or the fastener from passing completely through and creating a flying missile hazard on the other side.</li> <li>No fastener shall be driven into a spalled area caused by an unsatisfactory fastening.</li> <li>Eye protection: safety glasses and face shield shall be worn at all times.</li> <li>Hearing protection is required.</li> <li>Less than 100 powder cartridges shall be transported at any time and only the maximum daily cartridges used shall be purchased. No cartridges shall be stored onsite.</li> </ul>

**NOTES:**

- Employees have stop work authority for safety reasons.
- Applicable sections of this AHA shall be covered during the Pre-Job Briefings.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: LADDER SAFETY**

**Number: AHA-15 Revision No: 0**

**Reviewed by/date: MP 2020**

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
OSHA Approved Fiberglass Ladders; Type 1A rated at 300 lbs.	Ladders shall be inspected each day prior to use and thoroughly following any potentially damaging incident.	Ladder Training will be administered during Initial Orientation and continually throughout the project.

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Accessing elevated work areas or surfaces	<ul style="list-style-type: none"> <li>• Fall or strain trying to reach work area or surface</li> </ul>	<ul style="list-style-type: none"> <li>• Stairs or ladders shall be provided for any change in elevation 19" high or greater where no ramp or other access is provided.</li> <li>• OSHA / ANSI approved fiberglass ladders; Type 1A, rated at 300 pounds should be purchased and used.</li> </ul>
	<ul style="list-style-type: none"> <li>• Fall from unsafe work practices</li> </ul>	<ul style="list-style-type: none"> <li>• Ladder safety training is required for all project personnel using ladders.</li> <li>• Ladders shall be inspected each day prior to use and after any potentially damaging incident. Ladders shall be checked for structural damage as follows: broken or missing rungs/rails and corroded or missing components. Damaged ladders shall be tagged out and removed from service.</li> <li>• Ladders shall be free of oil, grease or other material which could cause a potential slipping hazard.</li> <li>• Ladders shall be secured to hold them in position.</li> <li>• Ladders shall extend 3' above the landing and shall be secured against movement at the top. Ladders shall be positioned using 4:1 slope ratio, height over distance. Ladders shall be equipped with no-slip feet.</li> <li>• Ladders shall not be placed in aisles or doorways where they may be displaced, unless protected by a barricade or spotter.</li> <li>• Employees shall keep their body inside the side rails while climbing or working.</li> <li>• Ladders are generally used to access a desired work location, but under certain circumstances may be used to perform work. The need for fall protection shall be evaluated by Health and Safety. Manlifts or other more stable work platforms should be used for elevated work activities.</li> <li>• Employees shall maintain 3 points of contact when ascending, descending or when working directly within the confines of the ladder. Tools or other materials shall not be carried in worker's hands when going up or down ladders. Use a tool belt to carry tools. Hoist the objects using a rope after the desired work position has been reached.</li> <li>• Work performed outside the confines of the ladder will require fall protection.</li> <li>• Ladders shall be used on stable and level surfaces unless secured to prevent displacement.</li> <li>• The top two rungs of ladders shall not be used while conducting work. Use a bigger ladder to maintain a 3<sup>rd</sup> point of contact using the body.</li> <li>• During ladder decent – stop at first rung and visually verify ground level / surface grade level prior step off.</li> </ul>
	<ul style="list-style-type: none"> <li>• Electric shock</li> </ul>	<ul style="list-style-type: none"> <li>• Portable metal ladders are not permitted.</li> </ul>
	<ul style="list-style-type: none"> <li>• Improper use of ladders</li> </ul>	<ul style="list-style-type: none"> <li>• Ladders shall only be used for the purpose for which they were designed.</li> <li>• The rated load capacity of ladders shall not be exceeded.</li> <li>• Ladders shall be stored in a manner that does not create a hazard to personnel or cause damage to the ladder.</li> </ul>

**NOTES:**

1. Employees have stop work authority for safety concerns.
2. Applicable sections of this AHA shall be covered during Pre-Job Briefings.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: LEAD EXPOSURE**

**Number: AHA-16      Revision No: 1**

**Reviewed by/date: MP 2020**

PREREQUISITES		
EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
All Lead work shall be in accordance with 29 CFR 1926.62	All PPE shall be inspected prior to each use	Lead awareness training shall be a minimum site requirement, while more advanced training shall be in accordance with 29 CFR 1926.62

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
Cutting, grinding, handling materials containing LEAD paint or other LEAD containing compounds	<ul style="list-style-type: none"> <li>Exposure to LEAD through inhalation, injection, ingestion or absorption.</li> </ul>	<ul style="list-style-type: none"> <li>Work activities with the potential for LEAD exposure shall be conducted in accordance with the MCI HASP Section 11. Paint finish coating shall be sampled and initially characterized to determine potential for exposure to airborne lead contamination as compared historical data to task specific activity.</li> <li>Workers with potential exposure must have LEAD awareness training.</li> <li>Medical surveillance shall be conducted in accordance with 29 CFR 1926.62. LEAD workers must have baseline blood LEAD and ZPP analysis performed, as part of their pre-employment physical</li> <li>All workers must have the required OSHA LEAD training when actually working with LEAD.</li> <li>LEAD hazards: Acute exposure can cause encephalopathy (a condition affecting the brain). Chronic exposure can cause damage to blood forming, nervous, urinary, and reproductive systems. Symptoms include: loss of appetite, metallic taste in mouth, anxiety, weakness, muscle and joint soreness.</li> <li>Painted surfaces on steel surfaces, piping, ductwork and other suspect surfaces shall be assumed to be LEAD containing until a positive determination is made. Appropriate measures to prevent the spread of contamination and exposure shall be implemented.</li> <li>Additional minimum PPE requirements include: Coveralls, shoe covers, gloves and 1/2-face respirators with Combination HEPA/P-100 / Organic Vapor cartridges.</li> <li>Site Specific personnel Air monitoring shall be conducted and evaluated by MCI's CIH to insure administrative and engineering controls are successfully keeping the OSHA Action Level below 30 ug/m3.</li> <li>If the PEL has been exceeded, additional PPE will be required.</li> <li>A Regulated Area shall be established in areas where airborne LEAD concentrations exceed the PEL (50 ug/m3). Warning signs which read "WARNING-LEAD WORK AREA POISON NO SMOKING OR EATING" shall be posted.</li> <li>Engineering controls shall be implemented to include the use of 3ft cutting torches. Administrative controls shall include body positioning. Where/when feasible increased ventilation and use of local HEPA exhaust ventilation can be added.</li> <li>Food, beverages, tobacco products, and cosmetics shall be prohibited in all areas where LEAD exposure is possible.</li> <li>At NO times will respiratory protection be reduced to less than 1/2 face respirators while performing thermal-cutting task.</li> </ul>
	<ul style="list-style-type: none"> <li>Poor Housekeeping</li> </ul>	<ul style="list-style-type: none"> <li>Accumulated LEAD containing debris shall be kept to a minimum.</li> <li>Compressed air shall not be used to clean PPE or other surfaces.</li> <li>Shoveling, sweeping, and brushing shall be used only where vacuuming or other methods are ineffective. Wet methods shall apply.</li> <li>Vacuums shall be equipped with High Efficiency Particulate Air (HEPA) filters.</li> </ul>

**NOTES:**

- Workers have stop work authority for safety concerns.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
2.	Applicable sections of this AHA shall be covered during the Pre-Job Briefings.	
3.	Representative Sampling duration will be determined under the direction of MCI's CIH	

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: Rigging Safety**

**Number: AHA-18**

**Revision No. 1**

**Reviewed by/date:** MP 2021

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
All rigging equipment shall be approved by a competent person. All rigging for Critical Lifts shall be approved by the Project Engineer	Rigging equipment shall be inspected prior to each use on each shift.	Rigging training will be administered / Qualified through On the Job Training (OJT) and shall be done by a Competent Person as per 29CFR 1926.1404( r )(1)

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Rigging	<ul style="list-style-type: none"> <li>• Rigging Failure</li> </ul>	<ul style="list-style-type: none"> <li>• Inspect all Rigging equipment prior to use. Refer to Material Handling &amp; Rigging Program HASP Sect. 16.</li> <li>• Rigging equipment cannot be modified.</li> <li>• All lifting hooks shall have safety latches.</li> <li>• Slings: (to include: ropes, wire, and cable) shall not be used with loads in excess of rated capacity. Load identification shall be attached to the rigging.</li> <li>• Tag lines shall be used unless their use creates an unsafe condition</li> <li>• Chain slings are not permitted</li> <li>• Slings shall be padded or protected from sharp edges of a load.</li> <li>• Know / calculate in writing the weight of the load.</li> <li>• All rigging must be performed by a competent person.</li> <li>• No person shall be allowed under a suspended load.</li> <li>• All personnel shall be kept clear of a suspended load or lift.</li> </ul>
	<ul style="list-style-type: none"> <li>• Back injury</li> </ul>	<ul style="list-style-type: none"> <li>• Get help when moving and attaching heavy rigging. Practice proper lifting techniques.</li> </ul>
	<ul style="list-style-type: none"> <li>• Falls, Trips</li> </ul>	<ul style="list-style-type: none"> <li>• Personal fall arrest system is required during rigging activities at or above 6 feet. Rigging equipment not in use shall be removed from the immediate work area so as not to present a hazard to employees.</li> </ul>
	<ul style="list-style-type: none"> <li>• Finger/Hand injury</li> </ul>	<ul style="list-style-type: none"> <li>• Fingers or hands shall not be placed between the sling and its load while the sling is being tightened around the load. Wear gloves when handling slings.</li> </ul>

**NOTES:**

1. Employees have stop work authority for safety concerns.
2. Applicable sections of this AHA shall be covered during Pre-Job Briefings.
3. Refer to AHA-05 Hoisting Crane Operations regarding Critical Lifts and Crane Use and use of Master Rigger Certification.

**Title: MATERIAL HANDLING**  
**Number: AHA-19      Revision No: 1**

**Reviewed by/date: MP 2020**

<b>PREREQUISITES</b>		
<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
Only equipment use for the purpose in which it was designed to be used.	Completion of Equipment Inspection Form for Incoming Inspection and subsequent daily pre-use inspections there after. Prior to equipment demobilization, an Outgoing Inspection will be completed and documented.	Only trained and qualified personnel will be allowed to operate equipment.

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Material Handling	<ul style="list-style-type: none"> <li>Injuries resulting from manually lifting materials</li> </ul>	<ul style="list-style-type: none"> <li>Gloves (leather or Kevlar) shall be worn when handling materials with rough edges/surfaces.</li> <li>Employees should communicate and coordinate actions to prevent injury to hands or other bodily parts. Sudden or unplanned release of the item being handled could pinch or crush hands, fingers, or feet.</li> <li>Employees should practice safe lifting techniques. Keep back straight, bend at knees, load close to your body, lift straight up with legs and do not use twisting motions.</li> <li>Employees shall use mechanical lifting equipment whenever possible.</li> <li>A worker shall not lift more than 50 lbs. without assistance</li> </ul>
	<ul style="list-style-type: none"> <li>Injuries to employees during failed lift</li> </ul>	<ul style="list-style-type: none"> <li>Only essential employees shall be allowed in the immediate area of the object being lifted.</li> <li>Only stable and safely arranged loads shall be hoisted.</li> <li>Only trained and qualified operators shall be allowed to operate lifting equipment.</li> <li>Work to be performed in accordance with applicable permits, as required.</li> <li>A spotter shall be used in high traffic areas or where visibility is limited. Spotters/flagmen shall wear a red or orange reflective safety vest.</li> </ul>
	<ul style="list-style-type: none"> <li>Injuries resulting in equipment failure</li> </ul>	<ul style="list-style-type: none"> <li>All equipment shall be checked by operators before attempting lifts.</li> <li>Weight of item(s) being lifted shall not exceed lifting capacity of equipment throughout all possible lifting angles.</li> <li>At no time will personnel be allowed under suspended loads.</li> </ul>

**NOTES:**

- All employees have stop work authority for safety concerns.
- Applicable sections of this AHA shall be covered during Pre-Job Briefings.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: OPERATION OF MOBILE EQUIPMENT**

**Number: AHA-20 Revision No: 2**

**Reviewed by/date: MP 2022**

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
Skid Steer Loaders, Loaders, Telescopic Boom Lifts, etc.	Prior to equipment demobilization, an Outgoing Inspection will be completed and documented. Completion of Equipment Inspection for Incoming Inspection and subsequent daily pre-use inspections there after.	Only trained and qualified personnel will be allowed to operate equipment.  OJT Training will be basic requirement.

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Vehicles and Mechanical Equipment	<ul style="list-style-type: none"> <li>Vehicles and equipment being operated in an unsafe mechanical condition</li> </ul>	<ul style="list-style-type: none"> <li>Operators of equipment shall document daily inspections on the "Daily Equipment Operator Checklist."</li> <li>Operators shall wear seat belts, if so equipped, when operating mobile equipment.</li> <li>Only trained and qualified personnel will be allowed to operate equipment/machinery.</li> <li>Equipment found to be in need of repair, defective, or unsafe in any way, shall be tagged and taken out of service. Equipment shall not be placed back into service until repaired and inspected and authorized to do so by Health and Safety.</li> <li>Loads shall be lowered and power shut off when equipment is left unattended.</li> </ul>
	<ul style="list-style-type: none"> <li>Vehicles not having required safety equipment</li> </ul>	<ul style="list-style-type: none"> <li>Equipment shall have properly functioning: brake system, brake lights, audible horn, and all other safety systems specified in the operator's manual.</li> <li>Back up alarms shall be functional.</li> </ul>
	<ul style="list-style-type: none"> <li>Fire</li> </ul>	<ul style="list-style-type: none"> <li>Fire extinguishers shall be mounted on diesel and propane powered mobile equipment.</li> <li>Equipment shall be shut-off prior to refueling.</li> <li>No smoking or spark sources shall be allowed near refueling or battery maintenance areas.</li> </ul>
	<ul style="list-style-type: none"> <li>Hearing loss</li> </ul>	<ul style="list-style-type: none"> <li>Noise levels exceeding 85 dB(A) inside the cab will require hearing protection.</li> </ul>
	<ul style="list-style-type: none"> <li>Electric shock</li> </ul>	<ul style="list-style-type: none"> <li>No work may be performed within 10' of energized electrical lines.</li> <li>Contact MCI's Health and Safety if any work is to be conducted within 10' of an energized electrical source.</li> </ul>
Indoor or confined area Operation	<ul style="list-style-type: none"> <li>Health</li> </ul>	<ul style="list-style-type: none"> <li><b>Diesel Emissions:</b> The diesel powered equipment shall be equipped with an emissions control device (scrubber or catalytic converter) if working within an enclosed area. Health and Safety shall monitor ambient Carbon Monoxide (CO) levels in the work area and surrounding work areas while the equipment is in operation. The use of fans and/or air movers shall be considered to dilute/remove contaminants from the work area.</li> </ul>
	<ul style="list-style-type: none"> <li>Damaged windshield or glass / Operator being injured from material coming into cab</li> </ul>	<ul style="list-style-type: none"> <li>Cracked or broken windshields or glass shall be reported to a supervisor.</li> <li>Equipment shall not be operated with damaged windshield or glass.</li> <li>Equipment shall be operated at safe speeds to ensure complete control at all times.</li> </ul>
	<ul style="list-style-type: none"> <li>Struck by Mobile equipment</li> </ul>	<ul style="list-style-type: none"> <li>A spotter shall be used in high traffic areas or where visibility is limited.</li> <li>Areas shall be barricaded off when deemed necessary by Supervision.</li> </ul>

NOTES:

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
1. All employees have stop work authority for safety concerns. 2. Applicable sections of this AHA shall be covered during Pre-Job Briefings. 3. Workers are NOT permitted to work from /or ride in equipment buckets.		

**Title: SAFEGUARDS FOR FLOOR AND WALL OPENINGS**

**Number: AHA-21      Revision No: 01**

**Reviewed by/date: MP 2022**

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
OSHA Approved materials per CFR 1926.850	All safeguards will be inspected daily to insure the integrity for which they were installed.	All personnel installing safeguards will be instructed by the SSHM on the requirements for installation.

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Activities in areas with floor or wall openings	<ul style="list-style-type: none"> <li>Falls from open sided floors or platforms greater than 6'</li> </ul>	<ul style="list-style-type: none"> <li>Open sided floors or platforms greater than 6' in elevation shall be guarded by standard railings or the equivalent.</li> <li>Personnel working within 6' of an unguarded edge shall have full body harnesses attached to a lifeline capable of supporting 5000 lbs.</li> </ul>
	<ul style="list-style-type: none"> <li>Fall through an unguarded wall openings from which there is a drop of 4' or more</li> </ul>	<ul style="list-style-type: none"> <li>Wall openings in which the bottom of the opening is less than 3' above the working surface shall be provided with either an intermediate or standard rail.</li> </ul>
	<ul style="list-style-type: none"> <li>Materials or tools being dropped or knocked through wall openings</li> </ul>	<ul style="list-style-type: none"> <li>Wall openings from which the bottom is less than 4" above the working surface shall be provided with a standard toeboard or protective screen.</li> </ul>
	<ul style="list-style-type: none"> <li>Falls through unguarded floor openings or holes</li> </ul>	<ul style="list-style-type: none"> <li>All floor openings or holes shall be guarded by either a standard railing or a floor opening cover capable of supporting twice the intended load and designed to protect displacement.</li> <li>Floor holes 2"x2" must be covered, secured and labeled.</li> </ul>
	<ul style="list-style-type: none"> <li>Fall from a runway 4' or more above ground level</li> </ul>	<ul style="list-style-type: none"> <li>Runways shall be guarded by standard railings on all open sides.</li> </ul>
	<ul style="list-style-type: none"> <li>Falling debris</li> </ul>	<ul style="list-style-type: none"> <li>Wall openings created for passage/traffic shall have overhead obstructions and hanging debris removed.</li> </ul>

**NOTES:**

- All employees have stop work authority for safety concerns.
- Applicable sections of this AHA shall be covered during Pre-Job Briefings.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: ASBESTOS ABATEMENT**  
**Number: AHA-23      Revision No: 0**

**Reviewed by/date: MP 2020**

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
All equipment used shall be in accordance with 29 CFR 1926.1101	All PPE used shall be inspected prior to each use, while ACM Containment Structures shall be inspected prior to each shift	Asbestos worker training shall be a minimum site requirement, while those working directly with asbestos shall be trained per 29 CFR 1926.1101 & NYSCR 56

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Asbestos Removal to include:  <ul style="list-style-type: none"> <li>• Non Friable floor tile &amp; mastic</li> <li>• Glove-bag / rap &amp; cut pipe D&amp;R.</li> <li>• Ceiling tile &amp; window caulk (if applicable)</li> </ul>	<ul style="list-style-type: none"> <li>• Exposure to others during asbestos removal operations</li> </ul>	<ul style="list-style-type: none"> <li>• Both "Control" and "Regulated Area" zones will be set up around abatement area. The control area shall be located outside the regulated area. The purpose of the control zone is to prohibit unauthorized personnel from entering the regulated area, and to prevent exposure of unprotected personnel.</li> <li>• Access to regulated areas is limited to essential personnel only and entrants must meet PPE (including respirator qualified and fit test), training and medical surveillance requirements.</li> <li>• Required PPE during abatement activities includes: Tyvek coverall with hood, 1/2 face respirator with HEPA/P-100 cartridges, gloves and shoe covers.</li> <li>• Entrances and approaches to abatement area(s) must be identified with "ASBESTOS-DANGER" signs.</li> <li>• Smoking, chewing tobacco or gum, eating, drinking, or the use of cosmetics is prohibited in regulated areas.</li> <li>• All Asbestos work shall be performed in accordance with Federal and NY State Asbestos Regulations and Statutes.</li> </ul>
	<ul style="list-style-type: none"> <li>• Material of unknown composition</li> </ul>	<ul style="list-style-type: none"> <li>• Material of unknown composition shall be treated as Asbestos Containing Material until positive confirmation is made.</li> </ul>
	<ul style="list-style-type: none"> <li>• Failure of HEPA vacuums or negative pressure equipment</li> </ul>	<ul style="list-style-type: none"> <li>• Necessary HEPA vacuums and negative pressure equipment must available and tested for operability by the abatement supervisor or designee prior to abatement activities. Faulty equipment shall be tagged with "Do Not Use or Do Not Operate" tags and removed from service.</li> </ul>
	<ul style="list-style-type: none"> <li>• Spread of contamination outside of the regulated area</li> </ul>	<ul style="list-style-type: none"> <li>• Personnel performing abatement shall shower before leaving the jobsite.</li> <li>• All tools and equipment used in regulated areas shall be decontaminated before removal by HEPA vacuuming and/or wet wiped.</li> <li>• Air intake/return vents to building ventilation system, in abatement areas, shall be sealed as necessary.</li> </ul>
	<ul style="list-style-type: none"> <li>• Personal exposure due to tears or rips in protective clothing</li> </ul>	<ul style="list-style-type: none"> <li>• Immediately mend the tear with duct-tape. If the tear is significant (integrity of coverall cannot be maintained even with the repair) exit the containment and replace the coverall.</li> </ul>

**NOTES:**

1. Employees have stop work authority for safety concerns.
2. Applicable sections of this AHA shall be covered during Pre-Job Briefings.
3. NYS DOL Code Rule 56 to be followed.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: TRACK EXCAVATOR HYDRAULIC SHEAR/GRAPPLER/BUCKET USE**

**Number: AHA-24 Revision No: 0**

**Reviewed by/date: MP 2017**

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
All Excavators	Completion of Equipment Inspection Form for Incoming Inspection and subsequent daily pre-use inspections there after.	Only trained and qualified personnel will be allowed to operate equipment.

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Track Excavator Hydraulic Shear/Grapppler use	<ul style="list-style-type: none"> <li>Accident(s) due to untrained operators</li> </ul>	<ul style="list-style-type: none"> <li>Only trained and qualified individuals shall be allowed to operate Track Excavator mounted hydraulic shear/grapppler.</li> <li>Operators of equipment shall document daily inspections on the "Daily Equipment Operator Checklist."</li> <li>Prior to the commencement of work, the shearing supervisor and operator will determine that cords and/or hoses will not be damaged by falling debris or rotating equipment.</li> </ul>
	<ul style="list-style-type: none"> <li>Shear/grapppler in need of repair</li> </ul>	<ul style="list-style-type: none"> <li>Any Track Excavator mounted hydraulic shear/grapppler found to be in need of repair, defective, or unsafe in any way, shall be taken out of service. Use ladders or arial lifts for boom maintenance at heights greater than 6'.</li> </ul>
	<ul style="list-style-type: none"> <li>Load falling on personnel, projectiles, clearance</li> </ul>	<ul style="list-style-type: none"> <li>Employees shall not pass under elevated shear/grapppler/bucket, whether loaded or not.</li> <li>Space permitting, an area of approximately 75' from the point of operation will be vacated of ground personnel to control the work area. Personnel may not be within this designated area when shearing or cutting is being performed.</li> <li>Personnel working near the shear will be cautioned to stay clear of the swing radius of the counterweight.</li> <li>Equipment involved with demolition to be equipped with metal protection.</li> </ul>
	<ul style="list-style-type: none"> <li>Collision with personnel</li> </ul>	<ul style="list-style-type: none"> <li>Loads shall be lowered and power shut off when shears/grapplers are to be left unattended for an extended period of time.</li> <li><b>Exception:</b> during warm-up, equipment may be left idling.</li> <li>Portable lighting will be provided as necessary.</li> </ul>
	<ul style="list-style-type: none"> <li>Injuries to personnel during refueling of shear/grapppler units</li> </ul>	<ul style="list-style-type: none"> <li>Excavator must be shut off prior to refueling.</li> <li>No smoking, open flames or spark sources shall be allowed near refueling operations.</li> <li>Fire extinguishers shall be mounted on all mobile equipment.</li> </ul>
	<ul style="list-style-type: none"> <li>Tipping/rolling equipment</li> </ul>	<ul style="list-style-type: none"> <li>Verify that the shear/grapppler in on secure footing prior to lowering/shearing loads overhead or structures.</li> <li>Do not overload shear.</li> </ul>
	<ul style="list-style-type: none"> <li>Slips/trips/falls</li> </ul>	<ul style="list-style-type: none"> <li>Due to the use of water in dust suppression, "ice melt" may be needed to control icing during cold weather.</li> <li>Use hand grabs and steps installed on machinery.</li> </ul>
	<ul style="list-style-type: none"> <li>Personnel exposed to hazardous noise</li> </ul>	<ul style="list-style-type: none"> <li>Hearing protection will be required above 85 dBA during the shearing operations for ground personnel.</li> </ul>
	<ul style="list-style-type: none"> <li>Personnel exposed to hazardous atmosphere</li> <li>Contact with energized power lines</li> </ul>	<ul style="list-style-type: none"> <li>Use water for dust suppression.</li> <li>Health and Safety will evaluate and monitor for hazardous airborne contaminants.</li> <li>No work maybe performed within 10' of energized power lines.</li> <li>Contact MCI's Health and Safety if any work is to be conducted within 10' of an energized electrical source.</li> </ul>

**NOTES:**

- Employees have stop work authority for safety reasons.
- Applicable sections of this AHA shall be covered during Pre-Job Briefings.
- Equipment Tracks must be cleaned of dirt and debris prior transport

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: SIGNS AND BARRICADES (General Requirements)**

**Number: AHA-25      Revision No: 1**

**Reviewed by/date: MP 2023**

<b>PREREQUISITES</b>		
<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
OSHA Approved Signs and Barricades per CFR 1926.200-203	Signs and Barricades will be inspected daily to insure their effectiveness in preventing exposure to recognized hazards.	Training for Signs and Barricades will be administered during initial orientation.

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Placing signs and barricades	<ul style="list-style-type: none"> <li>Unrestricted access to areas with potential hazards</li> </ul>	<ul style="list-style-type: none"> <li>Required signs shall be visible at all times when work is being performed and shall be removed or covered when the hazards no longer exist.</li> <li>Demolition/construction work areas shall be barricaded off restricting access to essential personnel and those authorized to enter. General safety and PPE requirements for entry shall be specified, as necessary.</li> <li>There shall be no variation in the design of safety signs. Barricades, signs and tags shall meet the requirements stated in OSHA's General Industry and Construction standards.</li> <li>Danger signs and tape shall be posted where an immediate hazard exists and shall be predominately red in color.</li> <li>An individual may be stationed as a safety monitor in lieu of a sign or barricade or additionally to prevent personnel from entering a hazard area. The safety monitor SHALL communicate the hazard and specific requirements, such as "Do not enter."</li> <li>Caution signs and tape shall be used to warn against potential hazards, or to caution against unsafe operations. Caution signs shall be predominantly yellow with black "CAUTION" letters on a yellow panel.</li> <li>Signs and tape shall be posted with a Contact name and the Hazard(s) listed.</li> <li>Areas where airborne lead concentrations could exceed the PEL shall be posted identifying lead as a hazard and PPE requirements for entry.</li> <li>Asbestos abatement/regulated areas shall be posted in accordance with Asbestos Abatement Work Package.</li> <li>High noise areas (greater than 85 dBA) shall be posted requiring hearing protection prior to entry.</li> </ul>

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
Use of Safety Monitors:	<ul style="list-style-type: none"> <li>• Safety monitors, which are normally used for roofing work, can also be used to control access to hazardous work areas where personnel access is restricted to only those involved in the work activity.</li> <li>• The safety monitor system for non-roofing work is to be used under the following condition.</li> </ul>	<ul style="list-style-type: none"> <li>• With the exception of emergency situations, the safety monitor is always required to wear a reflective vest.</li> <li>• The safety monitor can perform NO other activities while assigned the role of safety monitor.</li> <li>• The safety monitor is required to clearly communicate all hazards and precautions to other site personnel.</li> <li>• The safety monitor may be used as the equivalent of a safety sign or barricade for jobs and SHALL be adhered to in the same manner as a safety barricade.</li> <li>• Safety monitor SHALL not be stationed in an area that is too large for them to effectively monitor.</li> <li>• Personnel that encounter a safety monitor SHALL abide by the directions of the safety monitor.</li> </ul>
	<ul style="list-style-type: none"> <li>• Inadequate protection or warning provided to employees or other personnel</li> </ul>	<ul style="list-style-type: none"> <li>• Barriers shall be used to protect employees from vehicular traffic when necessary.</li> <li>• Barriers shall be used to guard excavations adjacent to streets or roadways.</li> <li>• Flagging shall not be used as a substitute for barricades or barriers. When there is no imminent danger to personnel, flagging may be used for the short term (less than 24hrs) to identify hazards until proper barricades or barriers are provided.</li> <li>• Where possible, a notice shall be posted near the sign/barricade identifying a point of contact for further information.</li> </ul>
	<ul style="list-style-type: none"> <li>• Vehicular traffic</li> </ul>	<ul style="list-style-type: none"> <li>• Street signs shall be used to advise motorist of construction activity or hazards on or adjacent to the roadway.</li> <li>• When flagmen are used, they shall wear a red or orange safety vest. Vests worn in low light conditions shall be reflective.</li> </ul>

**NOTES:**

1. Employees have stop work authority for safety concerns.
2. Applicable sections of this AHA shall be covered during Pre-Job Briefings.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title:** ASSEMBLY OF EQUIPMENT ON SITE

**Number:** AHA-28      **Revision No.** 0

**Reviewed by/date:** MP 2021

PREREQUISITES		
EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Hardhat, Safety Glasses w/ Sideshields, Safety Toed Work Boots and Glove are the minimum requirement. Ear Plugs, respirators, additional lighting, etc., will be prescribed as needed on the Job Safety Analysis (JSA).	All Personal Protective Equipment shall be inspected prior to each use.	Assembly of Equipment shall be performed as specified by manufacture. All Personal Protective Equipment shall be inspected prior to each use.

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
Assembly of equipment on site.	<ul style="list-style-type: none"> <li>• Struck by – Control of Hazardous Energy</li> </ul>	<ul style="list-style-type: none"> <li>• .Equipment hydraulics shall be connected as per specifications identified in manufactures manual. Reflective vests shall be worn for additional visibility.</li> </ul>
	<ul style="list-style-type: none"> <li>• Head Injury</li> </ul>	<ul style="list-style-type: none"> <li>• Hard hats will be worn at all times.</li> <li>• When equipment is operating, operator shall remain at the controls of the equipment.</li> </ul>
	<ul style="list-style-type: none"> <li>• Eye injury</li> </ul>	<ul style="list-style-type: none"> <li>• Safety glasses with side shields shall be worn at all times.</li> <li>• Face shield and safety glasses required for driving wrist pins into place and when handling hydraulic systems.</li> </ul>
	<ul style="list-style-type: none"> <li>• Hearing Damage</li> </ul>	<ul style="list-style-type: none"> <li>• Hearing protection shall be worn when noise levels exceed 85 dBA.</li> </ul>
	<ul style="list-style-type: none"> <li>• Foot Injury</li> </ul>	<ul style="list-style-type: none"> <li>• Safety shoes shall be worn at all times on the job site.</li> </ul>
	<ul style="list-style-type: none"> <li>• Hand Injury</li> </ul>	<ul style="list-style-type: none"> <li>• Keep hands out of pinch point areas. Ensure work activities are covered in a Pre-Job Briefing are on-going communication is maintained when moving or positioning equipment. Gloves (leather or Kevlar) to be worn when handling material with rough surfaces.</li> </ul>
	<ul style="list-style-type: none"> <li>• Falls</li> </ul>	<ul style="list-style-type: none"> <li>• Fall protection is required for employees exposed to a potential fall of 6 feet or greater.</li> <li>• Fall protection may consist of one of the following: guardrail systems, personal fall arrest systems, fall restraint systems, warning line systems, and safety monitoring systems (spotter).</li> </ul>
	<ul style="list-style-type: none"> <li>• Crushing</li> </ul>	<ul style="list-style-type: none"> <li>• Equipment shall be assembled by trained and qualified personnel.</li> </ul>
	<ul style="list-style-type: none"> <li>• Fluid spills</li> </ul>	<ul style="list-style-type: none"> <li>• Containment-i.e. buckets, tarps, speedy dry, etc.. Notify customer Representatives on site immediately.</li> </ul>
<p>NOTES:</p> <ol style="list-style-type: none"> <li>1. Employees have stop work authority for safety concerns.</li> <li>2. Applicable sections of this AHA shall be covered during Pre-Job Briefings.</li> </ol>		

**Title: Universal and Non-Hazardous Waste Handling**

**Number: AHA-30 Revision No: 01**

**Reviewed by/date: MP 2022**

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
Mechanical equipment, Hand tools , Containment materials, spill kits	All PPE shall be inspected prior to each use. Satellite Waste Storage shall be established, posted and inspected daily in conformance with 40 CFR 273.36	All workers shall have been HAZCOM trained. HAZWOPER training may be required based on contractual requirements and /or material handled.

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Collecting: • Universal Wastes: Batteries, Mercury Switches • Mercury lamps and fluorescent tubes • PCB Ballasts	<ul style="list-style-type: none"> <li>• Burns from acids in batteries</li> <li>• Cuts from broken lights</li> <li>• Environmental release from mercury switches</li> <li>• Environmental spill from PCB ballasts</li> <li>• PCB contamination on worker</li> </ul>	<ul style="list-style-type: none"> <li>• All work will be performed in accordance with 40 CFR 273.36</li> <li>• All lights will be packed in approved shipping containers</li> <li>• Extra care will be taken when removing mercury switches</li> <li>• Batteries will be removed in such a way as not to damage the battery case and spill the battery acid.</li> <li>• The batteries will be properly packaged for disposal.</li> <li>• Prior to ballasts removal ballast will be checked. for leaks prior handling.</li> </ul>
Non-Hazardous Solid Waste: <ul style="list-style-type: none"> <li>• Lumber</li> <li>• Brick</li> <li>• Concrete</li> <li>• Glass</li> <li>• Asphalt roofing</li> </ul>	<ul style="list-style-type: none"> <li>• Fire from combustibles</li> <li>• Silica dust from concrete</li> <li>• Cuts from glass</li> <li>• Trip hazards</li> </ul>	<ul style="list-style-type: none"> <li>• Fire watch shall be present during demolition.</li> <li>• Water will be used to minimize dust</li> <li>• Engineering controls will be established to keep workers up wind.</li> <li>• Maintain Good housekeeping practices</li> </ul>
Scrap Metal	<ul style="list-style-type: none"> <li>• Process residues caustic, flammable</li> </ul>	<ul style="list-style-type: none"> <li>• Spill clean-up kit shall kept in the work area at all times in case of residues</li> <li>• All piping and tanks with residues will be decontaminated.</li> <li>• Fire watch shall be present during demolition.</li> <li>• All workers will wear the proper PPE/Leather palm gloves</li> </ul>
Decontamination Equipment / Piping	<ul style="list-style-type: none"> <li>• Exposure through inhalation, injection, ingestion or absorption.</li> <li>• Fire</li> <li>• Caustic burns</li> <li>• Environmental burns or release</li> </ul>	<ul style="list-style-type: none"> <li>• All piping and equipment that to be decontaminated will be transported to the decontamination areas</li> <li>• All workers will wear the proper PPE as specified in SSHASP.</li> <li>• Any rinstate and sludge generated will be properly classified and disposed.</li> <li>• Spill clean-up kits shall be kept in the work area at all times in case of residues.</li> </ul>

**NOTES:**

1. Employees have stop work authority for safety concerns.
2. Applicable sections of this AHA shall be covered during the Pre-Job Briefings.

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title: FUELING OF EQUIPMENT ON SITE**

**Number: AHA-31 Revision No. 1**

**Reviewed by/date: MP 2021**

PREREQUISITES		
EQUIPMENT TO BE USED	INSPECTION REQUIREMENTS	TRAINING REQUIREMENTS
Hardhat, Safety Glasses w/ Sideshields, Safety Toed Work Boots and Glove are the minimum requirement. Ear Plugs, respirators, additional lighting, etc., will be prescribed as needed on the Job Safety Analysis (JSA).	All Personal Protective Equipment shall be inspected prior to each use.	All Personal Protective Equipment shall be inspected prior to each use.

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
Fueling of equipment on site.	<ul style="list-style-type: none"> <li>• Head Injury</li> <li>• Eye injury</li> <li>• Foot Injury</li> </ul>	<ul style="list-style-type: none"> <li>• Hard hats will be worn at all times.</li> <li>• Equipment SHALL be Turned OFF while refueling</li> <li>• Safety glasses with side shields shall be worn at all times.</li> <li>• Safety shoes shall be worn at all times on the job site.</li> </ul>
	<ul style="list-style-type: none"> <li>• Hand Injury</li> </ul>	<ul style="list-style-type: none"> <li>• Keep hands out of pinch point areas. Ensure work activities are covered in a Pre-Job Briefing are on-going communication is maintained when moving or positioning equipment.</li> </ul>
	<ul style="list-style-type: none"> <li>• Falls</li> </ul>	<ul style="list-style-type: none"> <li>• Fall protection is required for employees exposed to a potential fall of 6 feet or greater.</li> <li>• Fall protection may consist of one of the following: guardrail systems, personal fall arrest systems, fall restraint systems, warning line systems, and safety monitoring systems (spotter).</li> </ul>
	<ul style="list-style-type: none"> <li>• Fire</li> </ul>	<ul style="list-style-type: none"> <li>• No Smoking Permitted while fueling, Refer to AHA-11 Flammable and Combustible Material Handling.</li> </ul>
	<ul style="list-style-type: none"> <li>• Crushing</li> </ul>	<ul style="list-style-type: none"> <li>• Fuel Truck Shall be brought to the equipment when possible</li> </ul>
	<ul style="list-style-type: none"> <li>• Fluid spills</li> </ul>	<ul style="list-style-type: none"> <li>• Containment materials to be easy accessible in work area -i.e. buckets, tarps, speedy dry, etc.</li> <li>• Manually hold onto nozzle to insure connection, and don't rely on automatic fuel shut offs or other types of control devises not specified by nozzle manufacture.</li> </ul>

**NOTES:**

1. Employees have stop work authority for safety concerns.
2. Applicable sections of this AHA shall be covered during Pre-Job Briefings.
3. Refer to AHA-11 Flammable and Combustible Material Handling

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

**Title:** Construction Work Infectious Disease COVID-19 Controls

**Number:** AHA-34 **Revision No:** 4 **Rev. by/date:** MP 03/31/2020, Rev 1: 04/02/2020, Rev 2: 04/03/2020, Rev 3 04/07/2020, Rev 4 09/02/2021

**PREREQUISITES**

<b>EQUIPMENT TO BE USED</b>	<b>INSPECTION REQUIREMENTS</b>	<b>TRAINING REQUIREMENTS</b>
All equipment used shall be in accordance with 29 CFR 1926, CDC NYS DOH & WHO Guidance	All PPE used shall be inspected prior to each use.	Worker training shall adhere to OSHA 3990 & 3989 Guidance Requirements. PPE use Decontamination of PPE

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Essential Construction Work determined by NYS DOL:  Continuation of essential work and / or make jobsite safe do to temporary shut-down.	Infectious Diseases Coronavirus – COVID-19	<ul style="list-style-type: none"> <li>• <b>Social distancing</b> (maintaining at least six-foot social distance from other individuals) is a project requirement. Special attention should be made to limit the number of individuals in close contact or in small, confined spaces so that the maximum amount of space between individuals can be maintained.</li> <li>• Break and lunch times shall be staggered on site to prevent all workers from taking break at the same time. MCI also requires that workers separate during break and do not congregate in groups larger than two to three people.</li> <li>• Avoid close contact with individuals who are sick. The CDC defines “close contact” as (a) being within approximately 6 feet of a COVID-19 case for a prolonged period of time (and can occur while caring for, living with, visiting or sharing a health care waiting room or area with a COVID-19 case) or (b) having direct contact with infectious secretions of a COVID-19 case (e.g., being coughed on).</li> <li>• Work crews / teams will be limited and co-mingling with other subcontractors and inspectors shall be controlled.</li> <li>• Non-essential personnel should not be on the project.</li> <li>• Handshakes and other contact greetings are not permitted.</li> </ul>
Before Leaving home for Work	• Spread of Infectious virus	<ul style="list-style-type: none"> <li>• <b>All workers must self-check</b> his or her temperature daily prior to coming to work. If any temperature reading is above 100.4° F [37.8° C], the worker must stay home. All workers must be fever free for at least 72 hours and show no other symptoms associated with COVID-19. By coming to work and onto the project site, workers are self-certifying that they are not sick and able to work within the guidelines of the CDC. MCI may require any worker to affirmatively state he/she is fever-free before entering the Project site.</li> </ul>

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

WORK ACTIVITY	POTENTIAL HAZARD	REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE
	<ul style="list-style-type: none"> <li>• Dermal Exposure / Pour Hygiene / Cross contamination</li> </ul>	<ul style="list-style-type: none"> <li>• MCI employees are to clean their hands often with an alcohol-based hand sanitizer that contains at least 80% alcohol or wash their hands with soap and water for at least 20 seconds. Soap and water should be used preferentially if hands are visibly dirty.</li> <li>• Routine cleaning shall be performed of all frequently touched surfaces on the jobsite. This includes, but is not limited to: workstations, countertops, handles, doorknobs, gang boxes, shared tools and equipment. Cleaning agents are expected to be used per the directions. Contractors are to ensure their employees are trained on the hazards associated with cleaning chemicals in accordance with OSHA’s Hazard Communication Standard. Additionally, MCI will supply their employees with proper additional PPE – gloves, face shields, etc.</li> <li>• Port-a-johns will be serviced 2 to 3 times per week depending on use. Additional port-a-johns might be added and all spaced 6-feet apart. Have hand sanitizers refilled.</li> <li>• Project trailers/offices/shanties are to be cleaned daily.</li> <li>• Tool sharing is discouraged.</li> <li>• Workers need to be cognizant of their work clothing when arriving at home and are encouraged to change clothes daily or wash clothes daily in hot water.</li> <li>• Empty trash containers daily supplying gloves to the affected workers.</li> <li>• Avoid pressurized air cleaning techniques, such as using pressurized air or water sprays that may result in the generation of bioaerosols.</li> <li>• Clean surfaces of service/fleet vehicles, steering wheels, gear shifts, instrument panels.</li> <li>• All jobsites and vehicles are equipped with hand sanitizers, gloves, N95 masks and cleaning supplies.</li> </ul>
	<ul style="list-style-type: none"> <li>• Sick at work</li> </ul>	<p>CDC recommends that employees who appear to have acute respiratory illness symptoms (i.e., cough, shortness of breath, etc.) and/or fever (100.4° F [37.8° C] or greater using an oral thermometer) upon arrival to work or who become sick during the day be separated from other employees and be sent home immediately. All employees should cover their noses and mouths with a tissue when coughing or sneezing (or an elbow or shoulder if no tissue is available). If any individual on this project site has:</p> <ul style="list-style-type: none"> <li>• Tested positive for COVID-19;</li> <li>• Encountered someone known to have tested positive for COVID-19; or exhibiting symptoms consistent with COVID-19;</li> <li>• Been sent home (or who did not come to the project) because they have symptoms of acute respiratory illness, signs of a fever, and any other symptom consistent with COVID-19; or</li> <li>• Completed a trip to a CDC-categorized Coronavirus Warning Level 3 location.</li> </ul> <p>then MCI will immediately notify the Project Owner / its clients, subcontractors and suppliers of the situation. Likewise, MCI expects that its subcontractors and/or the Project Owner will similarly immediately notify MCI if they are aware of individuals that meet any of the three categories above. MCI will then follow the CDC, World Health Organization (WHO), local state and federal health agencies’ recommendations for remediation.</p>
	<ul style="list-style-type: none"> <li>• Asymptomatic Transmission</li> </ul>	<p>Cover face (mouth &amp; nose) with mask, bandana, or piece of cloth when N-95 respirators are unavailable or in short supply.</p> <p>The Centers for Disease Control and Prevention (CDC) recommends wearing cloth face coverings in public settings where other social distancing measures are difficult to maintain, especially in areas of significant community-based transmission. MCI personnel and sub-contractors are strongly encouraged to follow CDC guidelines on the use of cloth face coverings in public settings or where other social distancing measures are difficult to maintain.</p>

**ACTIVITY HAZARD ANALYSIS (AHA)  
FOR MCI JOBSITES**

<b>WORK ACTIVITY</b>	<b>POTENTIAL HAZARD</b>	<b>REQUIRED ACTIONS, CONTROLS, OR METHODS OF COMPLIANCE</b>
Signing out truck deliveries / loads	<ul style="list-style-type: none"> <li>• Spread of Infectious virus</li> </ul>	<ul style="list-style-type: none"> <li>• Truck Drivers will sign out load tickets themselves and visually show site worker from a distance 6ft or more.</li> </ul>
	<ul style="list-style-type: none"> <li>• Lack of Communication</li> </ul>	<ul style="list-style-type: none"> <li>• MCI will continue to discuss best practices with on all projected at morning Daily Briefs.</li> <li>• Where possible find alternatives to group meetings including phone and or video conferencing. Where group meetings are necessary, limit number of attendees to those necessary.</li> <li>• Every jobsite will receive an AGC COVID-19 Best Practices poster. This should be posted in a prominent location.</li> <li>• Toolbox talks to large groups need to be broken up into smaller groups to promote social distancing recommendations. The superintendent/foreman should sign in all attendees.</li> </ul>
1.		
<p>NOTES:</p> <p>2. Review all Interim Guidance Documents as this is a fluid situation.</p> <p>3. Employees have stop work authority for safety concerns. Applicable sections of this AHA shall be covered during Pre-Job Briefings.</p>		

## Daily Safety Meeting & Pre-Task Safety Plan (PTSPs)

<b>PROJECT NAME:</b> Niagara Co. Economic Dev. <b>PROJECT NUMBER:</b> 23-1165	<b>Contractor:</b> Mark Cerrone Inc.	<b>Date:</b>	<b>Time:</b>
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**Job/Task to be performed:** \_\_\_\_\_

**Location of Work:** \_\_\_\_\_ **Weekly Toolbox Safety Topic:** \_\_\_\_\_

**Completed by Supervisor/Foreman/Competent Person:** \_\_\_\_\_

**Instructions: Complete / check box applicable to the work to be performed**

Permit Required Work Today?	Demolition	Site Work / Excavation	Rail Work
<input type="checkbox"/> Asbestos notification per NYSCR56 <input type="checkbox"/> Fire Impairment <input type="checkbox"/> Excavation <input type="checkbox"/> Hot Work <input type="checkbox"/> Working at Height <input type="checkbox"/> Permitted Confined Space <input type="checkbox"/> Crane Operations <input type="checkbox"/> Lock Out Tag Out Energy Isolation <input type="checkbox"/> Road Closure / Flagger Required <input type="checkbox"/> Rail Closure / Flagger Required  <input type="checkbox"/> Other _____	<input type="checkbox"/> Engineering survey Completed/ Available on site <input type="checkbox"/> AHA-14 General Demolition Reviewed <input type="checkbox"/> Utilities Turned Off/LIVE Marked <input type="checkbox"/> Demolition of structures should start from the top going down <input type="checkbox"/> Fall Hazards mitigated and/or plan in place <input type="checkbox"/> Hazardous Material mitigated and/or plan in place <input type="checkbox"/> Rescue Plan discussed and in place <input type="checkbox"/> Dust and Noise Mitigation Plan in place	<input type="checkbox"/> NYDIG Safety Verification /Utilities Marked <input type="checkbox"/> AHA-07 Excavation Reviewed <input type="checkbox"/> Competent Person Inspect prior entry on daily basis <input type="checkbox"/> Access provided when 4 ft and deeper every 25 ft of lateral travel <input type="checkbox"/> Shoring / step backs provided when 5ft or more in depth. <input type="checkbox"/> Guardrail / fencing / road plates used for barricading <input type="checkbox"/> Atmospheric testing over 4 ft in depth if atmospheric hazards are expected.	<input type="checkbox"/> Rail Closure / Certified Flagger Required <input type="checkbox"/> On-Track Protection. <input type="checkbox"/> Catenary Outage Requirements <input type="checkbox"/> Deraill Required <input type="checkbox"/> Blue Flag Required

Elevated Work / Ladder/ Scaffold	Hand Tools	PPE Minimum	Housekeeping
<b>Ladder Use:</b> <input type="checkbox"/> Type I-A 300 lbs. rating or above <input type="checkbox"/> Non-conductive (fiberglass) <input type="checkbox"/> Do not use a broken or dented ladder <input type="checkbox"/> 24" clear at base of Ladder  <b>Scaffold Use:</b> <input type="checkbox"/> Inspect daily before use: <input type="checkbox"/> Lateral support when two sections installed <input type="checkbox"/> Railing installed above 6 feet <input type="checkbox"/> Inspection tag current ( <b>RED TAG OR GREEN TAG</b> ) <input type="checkbox"/> All wheels locked <input type="checkbox"/> Fall arrest protection <input type="checkbox"/> Top/Mid-Rails/Toe-boards present	<input type="checkbox"/> All guards in place <input type="checkbox"/> Not damaged <input type="checkbox"/> No modification <input type="checkbox"/> Inspected before use <input type="checkbox"/> Proper tool for the job <input type="checkbox"/> No make shift cutting surfaces	<input type="checkbox"/> Hardhat to be worn at all times unless otherwise specified. <input type="checkbox"/> Steel Toed footwear <input type="checkbox"/> Safety Glasses meets Z-87.1 and worn at all times in construction area. <input type="checkbox"/> Cut Resistant Level 4 gloves <input type="checkbox"/> High Visibility Shirts or Vest <b>Other Considerations:</b> <input type="checkbox"/> Hearing Protection <input type="checkbox"/> Dust Mask <input type="checkbox"/> Respirator <input type="checkbox"/> Chemical handling PPE <input type="checkbox"/> Face Shield <input type="checkbox"/> Face Cover – COVID 19 <input type="checkbox"/> PFAS Fall Protection <input type="checkbox"/> Harness ( <b>No&lt;5yrs old</b> ) <input type="checkbox"/> Lanyard ( <b>No&lt;5yrs old</b> ) <input type="checkbox"/> 5000lb anchorage point	<input type="checkbox"/> Clean as you go <input type="checkbox"/> All areas left neat and clean at the end of the day <input type="checkbox"/> Ventilation needed <input type="checkbox"/> Flammable storage addressed <input type="checkbox"/> Combustible Material addressed <input type="checkbox"/> Doors closed to public <input type="checkbox"/> Floor hallways clear <input type="checkbox"/> Room exit egress clear <input type="checkbox"/> 28" min continuous egress clearance

