

**Large Recycling Facility Permit Application  
General III, LLC (d/b/a Southside Recycling)  
11554 S. Avenue O - Chicago, Illinois**

**November 11, 2020**

*Prepared for:*

**Southside Recycling  
11600 S. Burley Avenue  
Chicago, Illinois 60617**



**2 South 631 Route 59  
Suite B  
Warrenville, Illinois 60555  
Phone: 630-393-9000  
Fax: 630-393-9111**

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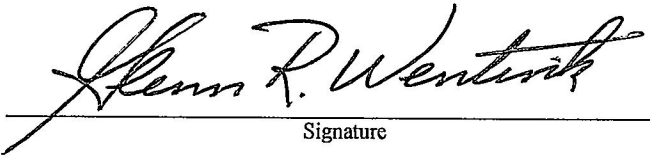
# PROFESSIONAL ENGINEER CERTIFICATION

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I certify under penalty of law that I have reviewed this document and all attachments. Based on my inquiry of the persons who prepared this document, or those persons directly responsible for gathering the information contained in this document, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for known violations.

Glenn R. Wentink

Printed Name

  
Signature



11/12/20  
Date

Company Name: Glenn R. Wentink, P.E.

Street Address: 103 East Cossitt Avenue, Suite 204

City: La Grange

State: IL

Zip: 60525



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## 1.0 INTRODUCTION

### 1.1 Description of Operations

General III, LLC (d/b/a Southside Recycling) will purchase discarded and end of life recyclable scrap metal from a variety of sources including independent recyclers, demolition companies, end-of-life vehicle suppliers, other recycling facilities, etc. Approximately 98 percent of the scrap metal delivered to Southside Recycling will be processed by a hammermill shredder and ferrous material separation system in order to separate ferrous metal (iron/steel) from nonferrous materials (nonferrous metal and nonmetallic material). Recovered ferrous metal will be loaded into barges, trucks and/or rail cars for delivery to steel mills and foundries. Nonferrous material, also known as shredder residue, will be further processed by the nonferrous material separation system to separate nonferrous metals (i.e. aluminum, copper, brass, etc.) from nonmetallic material (i.e. plastic, foam, etc.). Recovered nonferrous metal will be loaded into trucks for delivery to secondary nonferrous metal processing facilities, refiners, smelters, etc. All metals recovered from the process will be re-melted by steel mills, foundries, refiners, smelters, etc. and will eventually be transformed into consumable ferrous and nonferrous products. The nonmetallic material, also known as shredder fluff, will be loaded into trucks and sent to a landfill for use as alternate daily cover.

### 1.2 Applicant Summary

Corporation Name: *General III, LLC (d/b/a Southside Recycling)*

Corporation Address: *11554 S. Avenue O – Chicago, IL 60617*

Corporation Contact Name: *Hal Tolin*

Corporation Phone Number: *773-382-0123*

### 1.3 Facility and Property Summary

Facility Street Address: *11600 S. Burley Avenue – Chicago, IL 60617*

Facility Phone Number: *773-382-0123*

List of other businesses operating on the Property:

- *Reserve Marine Terminals*
- *Napuck Salvage of Waupaca*
- *South Shore Recycling*
- *RSR Partners (Regency Technologies)*

Description of other operations at the Property not covered under Permit:

*The four entities listed above that are currently operating on the Property are all involved in activities associated with the recycling of scrap metal (ferrous and non-ferrous) and electronic devices including material receiving, sorting, shredding, breaking, baling, shearing, torch cutting, metal separation, ferrous/non-ferrous metals recovery, stockpiling, and off-site shipment of finished products. Inbound materials are delivered to the Property campus from a variety of sources including independent recyclers and commercial/industrial accounts via trucks, contract haulers, barge, and rail..*

Following are activities specific to each operation:

- *Napuck Salvage of Waupaca operates an indoor Reserve Marine Terminals operates an indoor foundry sand/scrap recovery process and also conducts outdoor scrap processing activities that include sorting, shearing, breakage and torch cutting.*
- *Napuck Salvage of Waupaca operates an indoor aluminum and cast iron recycling process that includes crushing, shredding, screening, and washing.*
- *South Shore Recycling operates a small indoor/outdoor ferrous/non-ferrous scrap recycling center and also processes scrap metal through sorting, shearing, torch cutting and baling.*
- *RSR Partners (Regency Technologies) operates an indoor electronics recycling process that consists of manual breakdown of electronic materials with some limited baling.*

#### **1.4 Property Owner's Authorization**

A notarized letter, signed by the Owner, authorizing the Operator to use the Property as a Large Recycling Facility is included in Attachment A.

#### **1.5 Property Taxes**

Documentation evidencing the payment of real estate property taxes is included in Attachment B.

#### **1.6 Nature of a Special Use**

A copy of the minutes from the City of Chicago Zoning Board of Appeals documenting approval of a Special Use is included in Attachment C.

## **2.0 DESIGN REPORT**

The following sections document the components of the Design Report for the Facility.

### **2.1 Site Survey**

A site survey prepared by a Professional Surveyor is included in Attachment D.

### **2.2 USGS Site Location Map**

A USGS 7.5 Minute Quadrangle Map is included in Attachment E.

### **2.3 Aerial Photograph Drawing**

An aerial photograph taken within the last year is included in Attachment F.

### **2.4 Residential Setbacks**

No Facility boundary will be within 1,500 feet of the nearest residence.

### **2.5 Lake Michigan**

The Facility will not be located within the Lake Michigan and Chicago Lakefront Protection District. A Lakefront Protection District Map identifying the location of the Facility is included in Attachment G.

### **2.6 One hundred Year Flood Plain**

The Facility will not be located within the 100-year flood plain. A FEMA map identifying the location of Facility in an “*Area of Minimal Flood Hazard*” is included in Attachment H.

### **2.7 Wetlands**

The Facility will not have a negative impact on wetlands. A Wetlands Inventory Map identifying the location of the Facility is included in Attachment I.

### **2.8 Endangered Species**

The Facility will not pose a threat to any endangered species of plant, fish or wildlife. Pollution control measures at the Facility including storm water treatment systems and air emissions control equipment will help ensure that no endangered species are threatened.

## **2.9 Historical and Natural Areas**

The Facility will not pose a threat to any historic site. A Chicago Landmarks and National Register of Historic Places (NHRP) map demonstrating that no landmarks or NHRPs are located within a half mile of the Facility is included in Attachment J.

## **2.10 General Layout of the Facility**

Scaled drawings describing the general layout of the Facility as specified in Sections 3.9.5.1 to 3.9.5.13 of the “*Rules for Large Recycling Facilities Effective June 5, 2020*” are included in Attachment K.

## **2.11 Pavements**

All roads and parking areas within the Facility will be paved with concrete, hot-mix asphalt, gravel or asphalt grindings. Scaled drawings demonstrating that all internal roads and parking areas are designed, constructed, and maintained to accommodate the vehicle flow rates and type of traffic loading expected at the Facility as specified in Sections 3.9.6.1 to 3.9.6.4 of the “*Rules for Large Recycling Facilities Effective June 5, 2020*” are included in Attachment L.

## **2.12 Utilities**

Scaled drawings demonstrating that Utilities are of adequate capacity and are readily available for the operations of the Facility as specified in Sections 3.9.7.1 to 3.9.7.3 of the “*Rules for Large Recycling Facilities Effective June 5, 2020*” are included in Attachment M.

## **2.13 Water Sources**

Water will be used at the Facility for shredder processing, fire suppression, dust control and employee facilities. Water usage will vary based on the season and precipitation levels. The anticipated annual water usage is approximately 50 million gallons per year. Scaled Fire Protection drawings are included in Attachment N.

## **2.14 Site Security**

In order to prevent unauthorized access to the Facility, overseas containers will be placed along the eastern boundary and portions of the northern boundary of the Facility, gates will be closed during off hours and a security camera surveillance system will be installed. Containers will be placed such that the height of the barrier will be between 16 and 24 feet above grade.

## **2.15 Structures and Fixed Equipment**

The City of Chicago Department of Buildings issued Permits for all structures and fixed equipment at the Facility thereby ensuring that the Facility can be operated in a safe manner. Copies of Building Permits are included in Attachment O.

## **2.16 Tipping Floor and Storage Capacity**

Calculations and drawings included in Attachment P demonstrate that sufficient floor and staging capacity exists to accommodate the inspection and unloading of peak volumes of inbound material and the staging and storage of materials.

## **2.17 Water Drainage**

The City of Chicago Department of Buildings approved plans for connection of drains at the Facility to the main sewer thereby demonstrating that adequate systems exist to handle stormwater and wastewater flows from the Facility. A copy of the approval letter and associated drawings are included in Attachment Q.

## **2.18 Traffic**

The size, design and layout of the facility will ensure that unnecessary idling of vehicles and equipment does not occur and that there will be minimal impact to existing traffic flows. According to a Traffic Impact Study performed for the facility, “it is anticipated that Site-generated trips and background traffic growth will be readily accommodated at the study intersections with minimal impacts.” Vehicles anticipated at the Facility will include approximately 5 front end loaders, 5 forklifts, 3 skid steers, 2 fuel trucks, 2 water trucks, 1 street sweeper and 1 maintenance truck. Designated yard personnel will be qualified to operate each vehicle. A drawing depicting anticipated vehicle movement at the Facility along with the Traffic Impact Study referenced above is included in Attachment R.

## **2.19 Expected Waste Generation**

Following is an estimate of the amount of waste to be generated at the Facility:

Used oil: *8,000 gallons per year*

Parts washer solvent: *300 gallons per year*

Shredder fluff (nonhazardous special waste): *150,000 tons per year*

PCB ballast and capacitors (TSCA waste): *15 tons per year*

## **2.20 Parking**

It is anticipated that the Facility will employ approximate 100 people. The total number of available parking spaces will exceed 100. The layout and design of Facility parking was previously approved by the City of Chicago Zoning Department.

## **2.21 Employee Facilities**

A drawing depicting the location of employee facilities is included in Attachment S.

## **2.22 Perimeter Barrier**

Overseas containers stacked 2–3 high (16' – 24') along the eastern boundary and portions of the northern boundary will obscure Facility Operations from the public way and adjacent properties.

## **2.23 Stormwater Pollution Prevention**

The Facility will not be subject to Stormwater Pollution Prevention requirements since all storm water at the Facility will discharge to the Metropolitan Water Reclamation District (MWRD) of Greater Chicago wastewater treatment systems.

## **2.24 Noise Impact Assessment**

A Noise Impact Assessment prepared by Shiner Acoustics is included in Attachment T.

## **2.25 Storage Tanks**

All storage tanks used to store oil, chemicals and flammable liquids will have secondary containment and will be approved by the Office of the Illinois State Fire Marshal and CDPH's Storage Tank Unit. A draft Facility Spill Prevention Control and Countermeasure (SPCC) Plan is included in Attachment U.

## **2.26 Air Quality Impact Assessment**

An Air Quality Impact Assessment including an air dispersion modeling report and a dust monitoring plan is included in Attachment V.

### **3.0 OPERATING PLAN**

The following sections document the components of the Operating Plan for the Facility.

#### **3.1 Types of Recyclable Material**

The Facility will accept ferrous and nonferrous recyclable materials as outlined in the Description of Operations. Material inspection and screening procedures are described in the Feedstock Management Plan which is included in Attachment W. Any hazardous or dangerous materials will be handled by licensed third-party contractors.

#### **3.2 Quantity of Recyclable Material**

Facility is permitted by Illinois EPA to process up to 100,000 tons per month of scrap metal. Facility will implement an electronic receiving/shipping program in order to track and record all information in an electronic database.

#### **3.3 Devices, Apparatus, and Processes**

The Facility will be capable of processing 100,000 tons per month of scrap metal as permitted by Illinois EPA. A description of the Facility Health and Safety Plan and worker air and noise exposure sampling is included in Attachment X.

#### **3.4 Fire Prevention**

Flammable or explosive liquids will be stored in appropriate explosion-proof containers/cabinets. Compressed gas cylinders will be secured and stored in dedicated areas of the Facility away from potential ignition sources. Infrared detection devices will be used to detect potential hot spots in material storage piles. The hammermill shredder will be equipped with a deluge water system to rapidly extinguish a fire that may occur during the shredding process. Designated yard personnel will be trained in fire extinguishing procedures.

#### **3.5 Emergency Communications**

Chain-of-command in the event of an emergency is 1) yard personnel to 2) Environmental Manager to 3) third party contractor (i.e. Hazchem Environmental, Addison, IL).

### **3.6 First Aid Equipment**

Each building at the Facility will be equipped with at least one first aid kit for treatment of minor injuries. First aid kits will be supplied and inspected by a third party contractor (i.e. Cintas) on a regular basis.

### **3.7 Rodent/Vector Control**

A third party vector control specialist will be contracted to provide services required including inspection of Facility on a monthly basis.

### **3.8 Vehicles**

Vehicles anticipated at the Facility will include approximately 5 front end loaders, 5 forklifts, 3 skid steers, 2 fuel trucks, 2 water trucks, 1 street sweeper and 1 maintenance truck. Designated yard personnel will be qualified to operate each vehicle.

### **3.9 Disposal Facilities**

Following are the anticipated disposal facilities to be used by the Facility:

- Shredder fluff: *Newton County Landfill*
- PCB ballasts/capacitors: *Veolia Environmental Services*
- Used oil: *Excel Oil Service*
- Parts washer solvent: *Safety-Kleen*
- Recovered refrigerants: *Hudson Technologies*

### **3.10 Daily Housekeeping and Cleaning**

Facility will operate in accordance with the Fugitive Particulate Operating Program submitted to Illinois EPA.

### **3.11 Hours of Operation**

Facility will operate 24 hours per day, 7 days per week. However, shredding activities will be limited to the hours between 7:00 a.m. and 7:00 p.m. Monday through Friday and between 7:00 a.m. and 5:00 p.m. Saturday.

### **3.12 Closure Plan**

Material to be received and processed at the Facility is a commodity that would be sold upon closure. Purchase and installation of equipment is a significant investment that would also be sold upon closure.





**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment A  
Property Owner Authorization**



**South Chicago Property Management Ltd.  
11600 S. Burley Ave.  
Chicago, IL 60617  
(773) 382-0123**

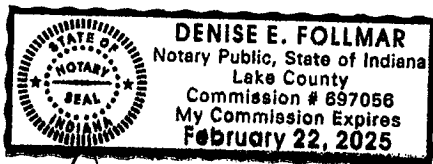
To Whom It May Concern:

South Chicago Property Management Ltd. hereby authorizes General III, LLC to operate a recycling facility in accordance with The City of Chicago Large Recycling Facility Ordinance.

If you have any questions, please feel free to contact me.

Sincerely,  
South Chicago Property Management Ltd.

  
Hal Tolin  
Manager



*Denise E. Follmar*  
9/24/20

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**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment B  
Property Taxes**





26-19-102-020-0000

No Sold or Delinquent Taxes for this PIN as of 10/1/2020

**Data provided reflects only delinquencies for general taxes billed under this property index number. Additional delinquencies may exist for this property index number. For information regarding Special Assessments, please contact our office. Additional delinquencies may exist for this property if parcels have been voided as part of a parcel reconfiguration, such as a parcel division, subdivision or consolidation.**

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26-19-200-023-0000

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26-19-200-021-0000

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26-19-201-017-0000

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26-19-201-018-0000

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26-19-102-018-0000

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26-19-200-024-0000

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26-19-200-027-0000

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**Large Recycling Facility Permit Application  
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11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment C  
Nature of a Special Use**







**140-19-Z ZONING DISTRICT: C1-1 WARD: 21**  
**APPLICANT:** Beverage Art II dba Wild Blossom II Southworks Brewing Co.  
**OWNER:** 9015 S. Hermitage, LLC  
**PREMISES AFFECTED:** 9016-30 S. Hermitage Avenue  
**SUBJECT:** Application for a variation to establish a public place of amusement license to provide live entertainment and retail space within an existing brewery which is located within 125' of a residential district.

- Continued to April 19, 2019 at 9:00 a.m.

**141-19-S ZONING DISTRICT: B3-2 WARD: 22**  
**APPLICANT:** Moreno's Discount Liquors, Inc. dba Osito's Tap  
**OWNER:** Rosemary and Michael Moreno  
**PREMISES AFFECTED:** 2553 S. Ridgeway Avenue  
**SUBJECT:** Application for a special use to establish a tavern.

- Approved

**142-19-S ZONING DISTRICT: B1-1 WARD: 16**  
**APPLICANT:** Antoine Bryant  
**OWNER:** Ray Farhoud  
**PREMISES AFFECTED:** 5956 S. Racine Avenue  
**SUBJECT:** Application for a special use to establish a beauty salon.

- Approved

**143-19-Z ZONING DISTRICT: RS-3 WARD: 25**  
**APPLICANT:** Adolfo Orozco  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 2012 W. Coulter Avenue  
**SUBJECT:** Application for a variation to reduce the front setback from the required 9.44' to 8.4', east setback from 2' to 1.88', west setback from 2' to 1.27', combined side setback from 4.8' to 3.15' to replace the existing basement frame walls with masonry and concrete of the existing single family residence.

- Approved

**144-19-Z ZONING DISTRICT: RS-2 WARD: 41**  
**APPLICANT:** Chi Partners, LLC 5500 Series  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 5500 N. Nottingham Avenue  
**SUBJECT:** Application for a variation to reduce the rear setback from the required 36.60' to 2.62', north setback from 4.36' to 0.36', south setback from 4.36' to 3.55', combined side setback from 13.10' to 3.71' for the subdivision of an existing zoning lot into two lots. The existing single family residence shall remain.

- Approved

**145-19-Z ZONING DISTRICT: RS-2 WARD: 41**  
**APPLICANT:** Chi Partners, LLC 5500 Series  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 5500 N Nottingham Avenue  
**SUBJECT:** Application for a variation to reduce the rear yard open space from the required 400 square feet to 78 square feet to allow the subdivision of an existing zoning lot into two zoning lots. The existing single family residence shall remain.

- **Approved**

**146-19-Z ZONING DISTRICT: RS-2 WARD: 41**  
**APPLICANT:** Chi Partners, LLC 5500 Series  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 5462 N. Nottingham Avenue  
**SUBJECT:** Application for a variation to reduce the front setback from the required 76.21' to 14', north setback from 4.29' to 3' south from 4.29' to 3.08', combined setback from 12.87' to 6.08' for a proposed two-story single family residence with an attached two-car garage.

- **Approved**

**147-19-Z ZONING DISTRICT: RT-4 WARD: 43**  
**APPLICANT:** Marcus Trivedi Declaration of trust dated 9/20/06  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 2224 N. Halsted Street  
**SUBJECT:** Application for a variation to reduce the front setback from the required 15' to 13.83', north from 2' to 0.33', combined side setback from 5' to 3.33' rear for the detached garage from 2' to 1.44' for a proposed three-story, single family residence with a roof deck and detached garage.

- **Approved**

**148-19-S ZONING DISTRICT: B3-5 WARD: 28**  
**APPLICANT:** Chicago Fuel, LLC  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 43 N. Homan Boulevard  
**SUBJECT:** Application for a special use to establish a gas station with nine pumps and a one-story accessory retail building.

- **Continued to April 19, 2019 at 9:00 a.m.**

**149-19-Z ZONING DISTRICT: RT-3.5 WARD: 44**  
**APPLICANT:** Joseph Martin Brown  
**OWNER:** Joseph Martin Brown and Kimberly Susan Deeb  
**PREMISES AFFECTED:** 3735 N. Wayne Avenue  
**SUBJECT:** Application for a variation to reduce the rear setback from the required 34.68' to 2', north setback from 3' to zero, south setback from 3' to zero, combined side setback from 6' to zero for a proposed rear yard connection from the principal building to the garage roof deck.

- **Approved**

**150-19-S**                                 **ZONING DISTRICT: C2-2**                         **WARD: 45**  
**APPLICANT:**                             4031 N. Elston, LLC  
**OWNER:**                                 4031-35 N. Elston, LLC  
**PREMISES AFFECTED:**               4033 N. Elston Avenue  
**SUBJECT:**                               Application for a special use to establish residential use below the second floor for a proposed four-story, four dwelling unit building.

- **Approved**

**151-19-Z**                                 **ZONING DISTRICT: C2-2**                         **WARD: 45**  
**APPLICANT:**                             4031 N. Elston, LLC  
**OWNER:**                                 4031-35 N. Elston, LLC  
**PREMISES AFFECTED:**               4033 N. Elston Avenue  
**SUBJECT:**                               Application for a variation to reduce the minimum lot area from the required 4,000 square feet to 3,794.591 square feet for a proposed four-story, four dwelling unit building.

- **Approved**

**152-19-Z**                                 **ZONING DISTRICT: C2-2**                         **WARD: 45**  
**APPLICANT:**                             4031 N. Elston, LLC  
**OWNER:**                                 4031-35 N. Elston, LLC  
**PREMISES AFFECTED:**               4033 N. Elston Avenue  
**SUBJECT:**                               Application for a variation to increase the maximum allowed height of 45' to 49.29' which is not more than 10% for a proposed four-story, four dwelling unit building.

- **Approved**

**153-19-S**                                 **ZONING DISTRICT: C2-2**                         **WARD: 45**  
**APPLICANT:**                             4031 N. Elston, LLC  
**OWNER:**                                 4031-35 N. Elston, LLC  
**PREMISES AFFECTED:**               4035 N. Elston Avenue  
**SUBJECT:**                               Application for a special use to establish residential use below the second floor for a proposed four-story, four dwelling unit building.

- **Approved**

**154-19-Z**                                 **ZONING DISTRICT: C2-2**                         **WARD: 45**  
**APPLICANT:**                             4031 N. Elston, LLC  
**OWNER:**                                 4031-35 N. Elston, LLC  
**PREMISES AFFECTED:**               4035 N. Elston Avenue  
**SUBJECT:**                               Application for a variation to increase the maximum allowed height from 45' to 49.29' which is not more than 10% for a proposed four-story, four dwelling unit building.

- **Approved**



**160-19-Z**                                 **ZONING DISTRICT: C2-2**                         **WARD: 45**  
**APPLICANT:**                         4031 N. Elston, LLC  
**OWNER:**                                 4031-35 N. Elston, LLC  
**PREMISES AFFECTED:**             4041 N. Elston Avenue  
**SUBJECT:**                             Application for a variation to increase the height from the maximum 45' to 49.29' which is not more than 10% for a proposed four-story, four dwelling unit building.

- **Approved**

**161-19-Z**                                 **ZONING DISTRICT: B2-3**                         **WARD: 33**  
**APPLICANT:**                         GMP Development, LLC  
**OWNER:**                                 Same as applicant  
**PREMISES AFFECTED:**             3253 N. Elston Avenue  
**SUBJECT:**                             Application for a variation to reduce the front setback from the required 8.25' to 0.5', rear setback from 30' to zero on floors containing dwelling units, north and south setbacks from 2' each to zero for a proposed four-story, three dwelling unit building with roof deck, rear open deck and three enclosed parking stalls.

- **Approved**

**162-19-S**                                 **ZONING DISTRICT: C1-2**                         **WARD: 19**  
**APPLICANT:**                         Vidhi Properties, LLC  
**OWNER:**                                 City of Chicago  
**PREMISES AFFECTED:**             1955 W. Monterey Avenue  
**SUBJECT:**                             Application for a special use to establish a one-lane drive through to serve a proposed one-story fast food restaurant.

- **Approved**

**163-19-Z**                                 **ZONING DISTRICT: RS-2**                         **WARD: 39**  
**APPLICANT:**                         Jennifer Nykaza Zwagerman  
**OWNER:**                                 Same as applicant  
**PREMISES AFFECTED:**             5269 N. Laporte Avenue  
**SUBJECT:**                             Application for a variation to reduce the rear setback from the required 34.7' to 2', south setback from 4' to 0.01' ( north to be 0.75'), combined side setback from 9.3' to 0.76' for a proposed second floor addition, a two story addition and a three-car garage with roof deck.

- **Approved**

**164-19-Z**                                 **ZONING DISTRICT: B3-1**                         **WARD: 14**  
**APPLICANT:**                         Chris Araiza  
**OWNER:**                                 Jacel Kozminski  
**PREMISES AFFECTED:**             4758 S. Pulaski Road  
**SUBJECT:**                             Application for a variation to establish a public place of amusement license to provide live entertainment, music, DJ and cover charge within an existing tavern which is located within 125' of a residential district.

- **Continued to May 17, 2019 at 9:00 a.m.**

**165-19-Z**                                  **ZONING DISTRICT: B2-5**                                  **WARD: 27**  
**APPLICANT:** 1511 Sedgwick, LLC  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 1511 N. Sedgwick Street  
**SUBJECT:** Application for a variation to reduce the rear yard setback from the required 30' to 4.50' for a proposed four-story, seven dwelling unit building with two interior parking spaces, roof deck and stair enclosures.

- **Approved**

**166-19-Z**                                  **ZONING DISTRICT: B2-5**                                  **WARD: 27**  
**APPLICANT:** 1511 Sedgwick, LLC  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 1511 N. Sedgwick Street  
**SUBJECT:** Application for a variation to increase the maximum height of 50' to 50.50' which is less than 10% for a proposed four-story, seven dwelling unit building with two interior parking spaces, roof deck and stair enclosures.

- **Withdrawn**

**167-19-S**                                  **ZONING DISTRICT: B3-2**                                  **WARD: 3**  
**APPLICANT:** Diza Taco Properties Dan Ryan, LLC  
**OWNER:** Sasafrasnet, LLC  
**PREMISES AFFECTED:** 255 W. Garfield Boulevard  
**SUBJECT:** Application for a special use to establish a one-lane drive-through facility to serve a proposed fast food restaurant.

- **Approved**

**168-19-S**                                  **ZONING DISTRICT: C1-2**                                  **WARD: 5**  
**APPLICANT:** Raina Stony, LLC  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 7019 S. Stony Island Avenue  
**SUBJECT:** Application for a special use to establish a one-lane drive-through to serve a proposed one-story fast food restaurant.

- **Approved**

**169-19-S**                                  **ZONING DISTRICT: B3-5**                                  **WARD: 27**  
**APPLICANT:** Old Town Luxury Suites, LLC  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 155-59 W. North Avenue  
**SUBJECT:** Application for a special use to reduce the required on-site parking by 100% for a proposed six-story, building with retail on the ground floor, fourteen interior parking spaces, one loading berth and thirty-five dwelling units above which shall be a transit served location.

- **Approved**

**170-19-Z** **ZONING DISTRICT: B3-5** **WARD: 27**  
**APPLICANT:** Old Town Luxury Suites, LLC  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 155-59 W. North Avenue  
**SUBJECT:** Application for a variation to reduce the rear setback from the required 30' to 3.4' on floors containing dwelling units for a proposed six-story building with ground floor retail, fourteen interior parking spaces, one loading berth and thirty-five dwelling units above which shall be a transit served location.

- **Approved**

**171-19-Z** **ZONING DISTRICT: B3-5** **WARD: 27**  
**APPLICANT:** Old Town Luxury Suites, LLC  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 155-59 W. North Avenue  
**SUBJECT:** Application for a variation to increase the maximum height from the permitted 70' to 74.1' which is less than 10% for a proposed six-story building with ground floor retail, fourteen interior parking spaces, one loading berth and thirty-five dwelling units above which shall be a transit served location.

- **Approved**

**172-19-Z** **ZONING DISTRICT: C1-2** **WARD: 30**  
**APPLICANT:** 3741 W. Belmont, LLC  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 3743 W. Belmont Avenue  
**SUBJECT:** Application for a variation to reduce the rear yard setback from the required 30' to 20' on floors containing dwelling units for a proposed four-story building with ground floor retail and fourteen dwelling units above.

- **Continued to April 19, 2019 at 9:00 a.m.**

**173-19-Z** **ZONING DISTRICT: C1-2** **WARD: 30**  
**APPLICANT:** 3741 W. Belmont, LLC  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 3743 W. Belmont Avenue  
**SUBJECT:** Application for a variation to reduce the minimum lot area from the required 14,000 square feet to 13,250 square feet for a proposed four-story building with ground floor retail and fourteen dwelling units above.

- **Continued to April 19, 2019 at 9:00 a.m.**



**174-19-Z**                                **ZONING DISTRICT: RS-3**                                **WARD: 32**  
**APPLICANT:** Ben Feller  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 1712 W. Barry Avenue  
**SUBJECT:** Application for a variation to increase the existing floor area by 175.95 square feet for a proposed two-story front addition to the existing two-story, single family residence with attached garage and roof deck.

- **Approved**

**175-19-Z**                                **ZONING DISTRICT: RS-3**                                **WARD: 32**  
**APPLICANT:** Ben Feller  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 1712 W. Barry Avenue  
**SUBJECT:** Application for a variation to reduce the rear setback from the required 35.04' to 29.89', east setback from 2' to 1.33'\* (west to be 3'), combined side setback from 4.80' to 4.33'\* for a proposed two-story front addition to the existing two-story, single family residence with an attached garage and roof deck.

- **Approved**

**176-19-Z**                                **ZONING DISTRICT: RS-3**                                **WARD: 32**  
**APPLICANT:** Ben Feller  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 1712 W. Barry Avenue  
**SUBJECT:** Application for a variation to increase the height from the maximum 30' to 31.33' for a proposed two story front addition to the existing two-story, single family residence with an attached garage and roof deck.

- **Approved**

**177-19-S**                                **ZONING DISTRICT: RT-3.5**                                **WARD: 32**  
**APPLICANT:** Maryville Academy  
**OWNER:** The Catholic Bishop of Chicago  
**PREMISES AFFECTED:** 1456 W. Oakdale Avenue  
**SUBJECT:** Application for a special use to establish a transitional residence for not more than twenty-five children.

- **Approved**

**178-19-S**                                **ZONING DISTRICT: PMD-6**                                **WARD: 10**  
**APPLICANT:** General III, LLC  
**OWNER:** South Chicago Property Management Ltd.  
**PREMISES AFFECTED:** 11600 S. Burley Avenue  
**SUBJECT:** Application for a special use to expand an existing development to operate a Class IV-B recycling facility.

- **Approved**

\*Amended at hearing





**79-19-Z**  
**APPLICANT:** Shepherd Real Estate Subsidiary, LLC-1901 Halsted Series  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 1877 N. Halsted Street  
**SUBJECT:** Application for a variation to reduce the rear setback from the required 39.38' to 5' for a proposed four-story, twelve dwelling unit building with an attached thirteen car garage with rood decks and access stairs.

- **Approved**

**80-19-Z**  
**APPLICANT:** Shepherd Real Estate Subsidiary, LLC-1901 Halsted Series  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 1877 N. Halsted Street  
**SUBJECT:** Application for a variation to relocate the required 832.35 square feet of rear yard open space to a deck or patio which is more than 4' above grade for a proposed four-story, twelve dwelling unit building with an attached thirteen car garage with roof decks and access stairs.

- **Approved**

**81-19-Z**  
**APPLICANT:** Shepherd Real Estate Subsidiary, LLC- 1901 Halsted Series  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 1877 N. Halsted Street  
**SUBJECT:** Application for a variation to allow a 16' wide driveway along a pedestrian street to access required parking on a lot that does not have alley access for a proposed four-story, twelve dwelling unit building with an attached thirteen car garage with roof decks and stairs for access.

- **Approved**

**82-19-Z**  
**APPLICANT:** Shepherd Real Estate Subsidiary, LLC-1901 Halsted Series  
**OWNER:** Same as applicant  
**PREMISES AFFECTED:** 1877 N. Halsted Street  
**SUBJECT:** Application for a variation to reduce the required 25% of street facing transparent window area from the required 291.6 square feet to 218.7 square feet and to allow a recessed entry along a pedestrian street that is 22.31' in width and 15.13' in depth for a proposed four-story, twelve dwelling unit building with an attached thirteen car garage with roof decks and stairs to access.

- **Approved**

**84-19-S**                                **ZONING DISTRICT: C1-2**                                **WARD: 28**  
**APPLICANT:**                                Thorntons Inc. c/o Drew Zazofsky  
**OWNER:**                                        Crossroads Ogden, LLC  
**PREMISES AFFECTED:**                                2335-61 W. Ogden / 2300-36 W. 13th St. / 1230-52 S. Oakley  
**SUBJECT:**                                        Application for a special use to establish a gas station with a one-story accessory retail building.

- **Continued to April 19, 2019 at 9:00 a.m.**

**89-19-Z**                                **ZONING DISTRICT: RS-2**                                **WARD: 19**  
**APPLICANT:**                                John Difilippo  
**OWNER:**                                        Same as applicant  
**PREMISES AFFECTED:**                                2645 W. 107th Street  
**SUBJECT:**                                        Application for a variation to increase the area occupied by an accessory building in the rear setback from the maximum 1,008 square feet to 1,102.90 square feet (16.34' x 20.10') which serves the existing single family residence.

- **Approved**

**111-19-S**                                **ZONING DISTRICT: M1-2**                                **WARD: 32**  
**APPLICANT:**                                The Night Ministry  
**OWNER:**                                        1735 N Ashland Partners LP  
**PREMISES AFFECTED:**                                1735 N. Ashland Avenue  
**SUBJECT:**                                        Application for a special use to establish a temporary overnight shelter for up to twenty-five homeless youth on the first floor of an existing four-story commercial building.

- **Approved**





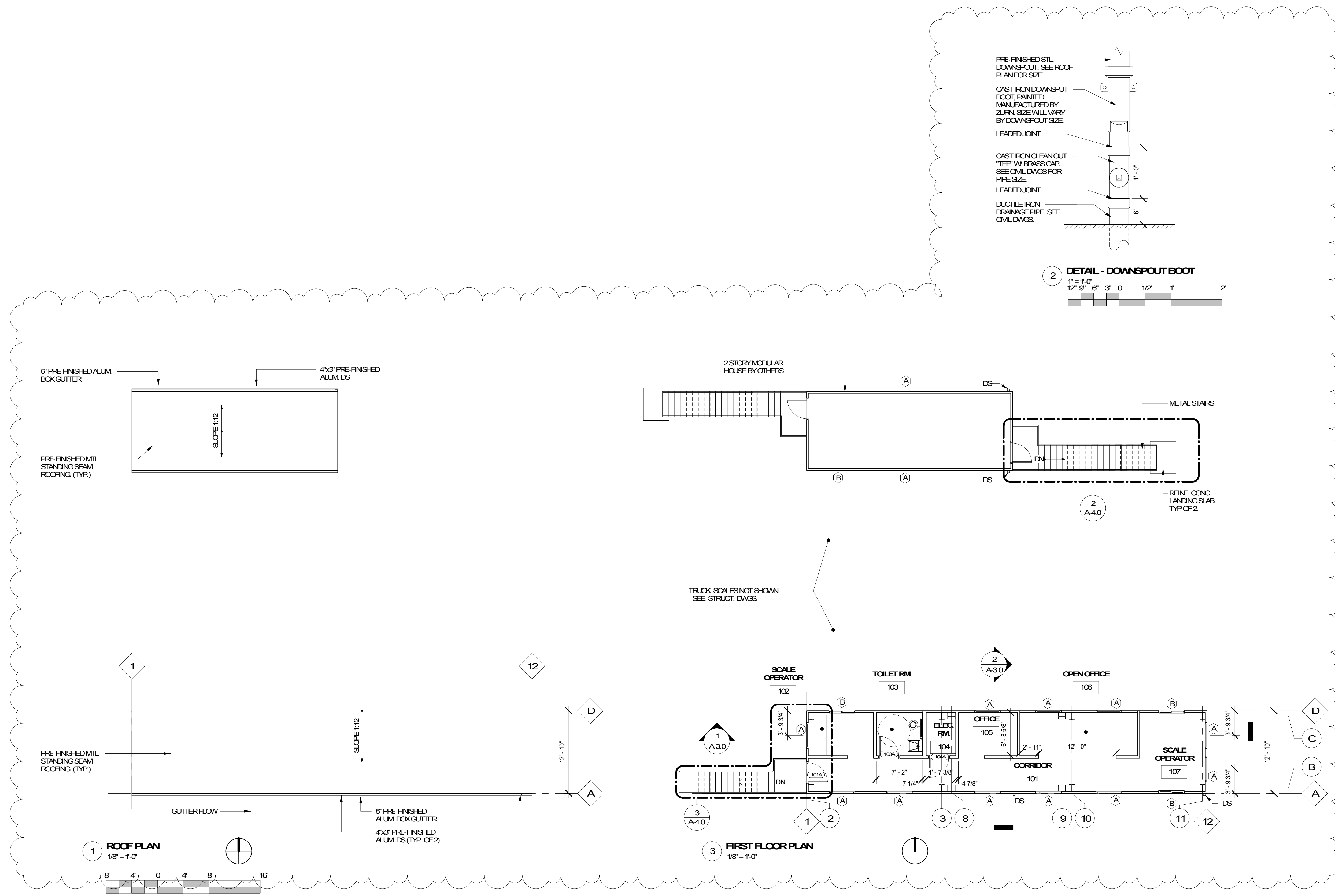
**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment D  
Site Survey**







PROGRESS SET - NOT FOR CONSTRUCTION

**KNIGHT**  
 Engineers & Architects  
 Knight E/A, Inc.  
 221 N. LaSalle Street  
 Suite 300  
 Chicago, IL 60601  
 Phone: (312) 577-3300  
 knightea.com

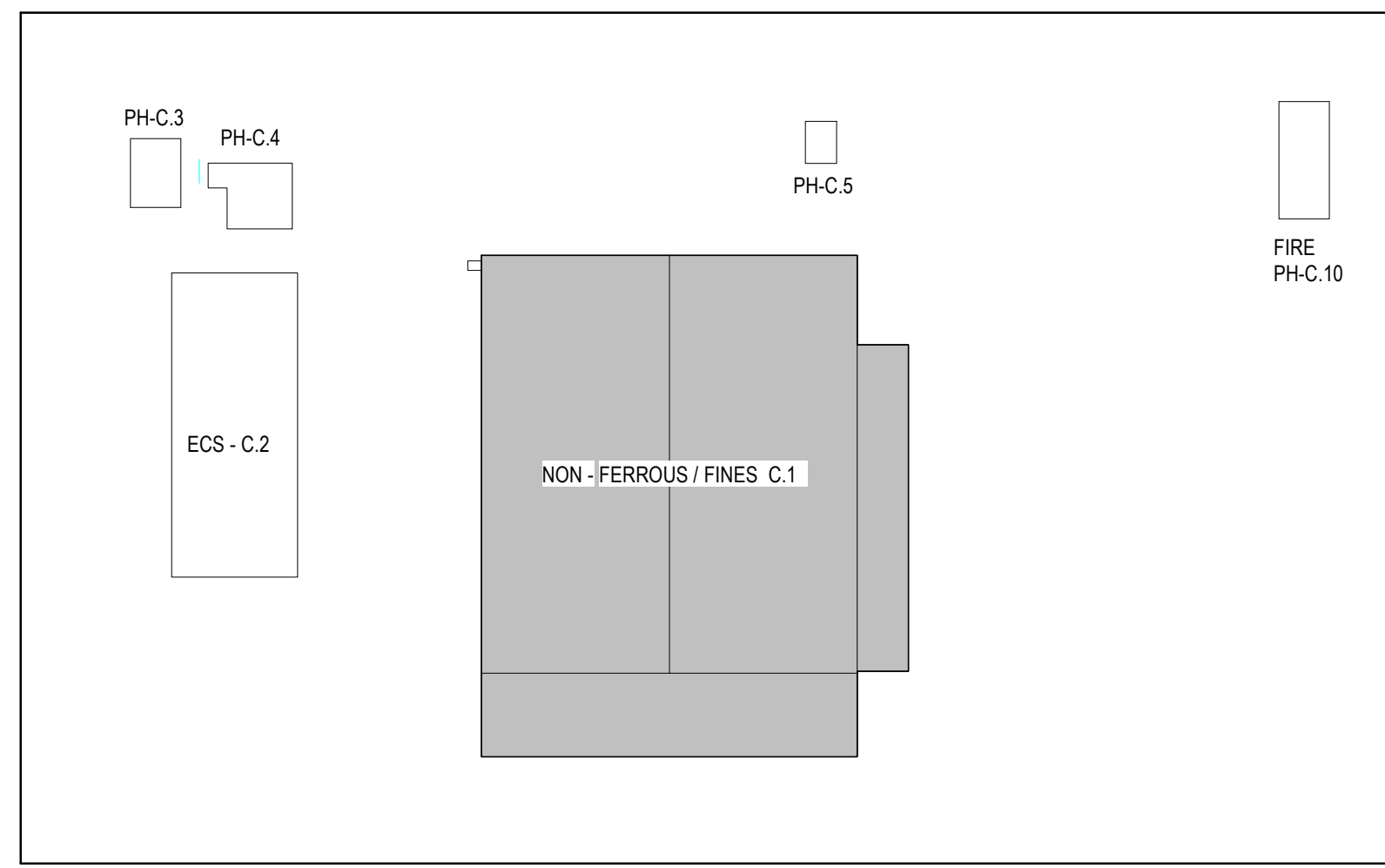
PROJECT:  
**GENERAL III, LLC**  
**STRUCTURE - B SCALE HOUSES**  
 11551 S. AVERUE O  
 CHICAGO, IL., 60617

3	06/22/2020	REVISION TO PERMIT
2	04/01/2020	ISSUE FOR CONSTRUCTION
1	01/10/2020	ISSUE FOR BID
#	DATE	ISSUE

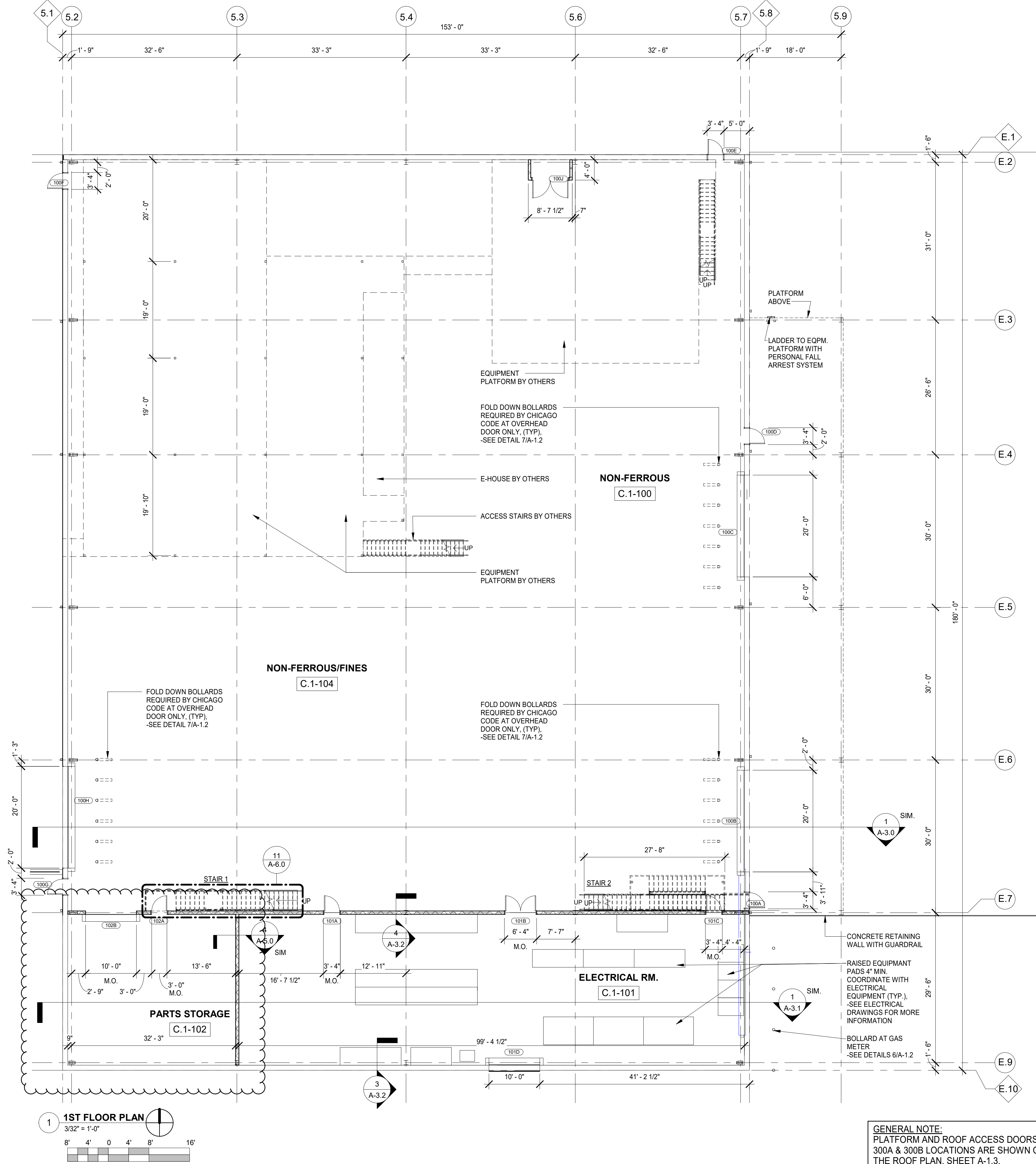
**FIRST FLOOR & ROOF PLAN**

PROJECT #	DATE
Project Number	07/16/2019

**A-10**



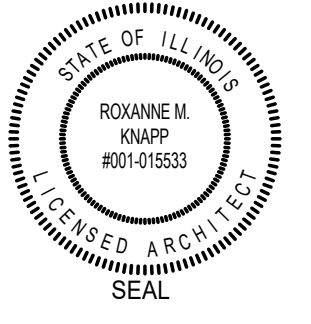
KEY PLAN  
1" = 60'-0"



1 1ST FLOOR PLAN  
3/32" = 1'-0"  
8' 4' 0' 4' 8' 16'

GENERAL NOTE:  
PLATFORM AND ROOF ACCESS DOORS  
300A & 300B LOCATIONS ARE SHOWN ON  
THE ROOF PLAN, SHEET A-1.3.

**KNIGHT**  
Engineers & Architects  
Knight E/A, Inc.  
2271 N. LaSalle Street  
Suite 300  
Chicago, IL 60601  
Phone: (312) 577-3300  
knightea.com



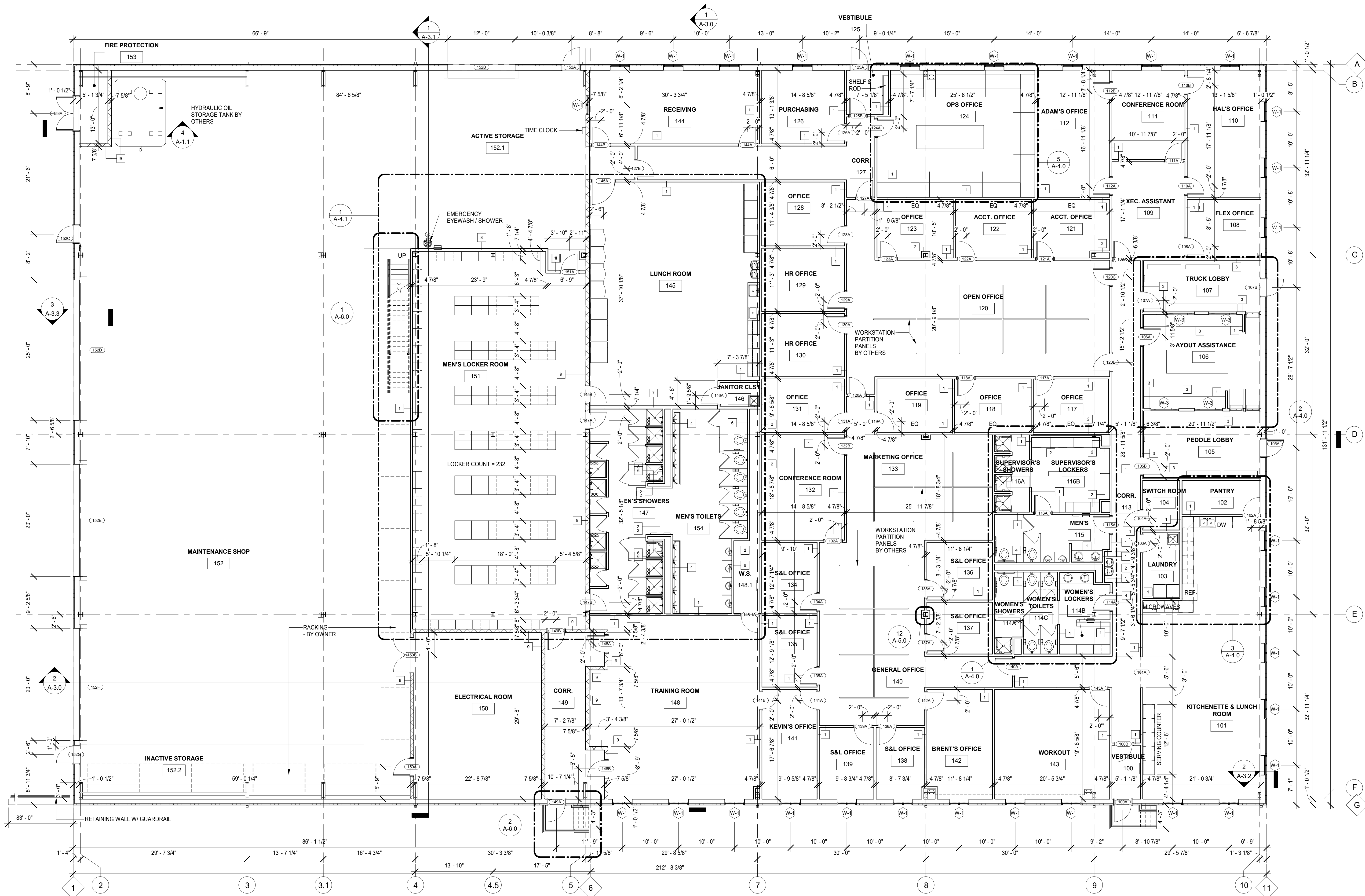
PROJECT:  
**GENERAL III**  
STRUCTURE C - NON-FERROUS BUILDINGS  
11554 S AVE O  
CHICAGO, IL 60617

3	06/22/2020	REVISION TO PERMIT
2	04/01/2020	ISSUE FOR REVISION TO PERMIT
1	08/09/2019	ISSUED FOR PERMIT REVIEW
#	DATE	ISSUE

FIRST FLOOR PLAN

PROJECT #:	DATE:
7563	09/27/19

**A-1.0**



1 OFFICE & MAINTENANCE - FLOOR PLAN  
1/8" = 1'-0"

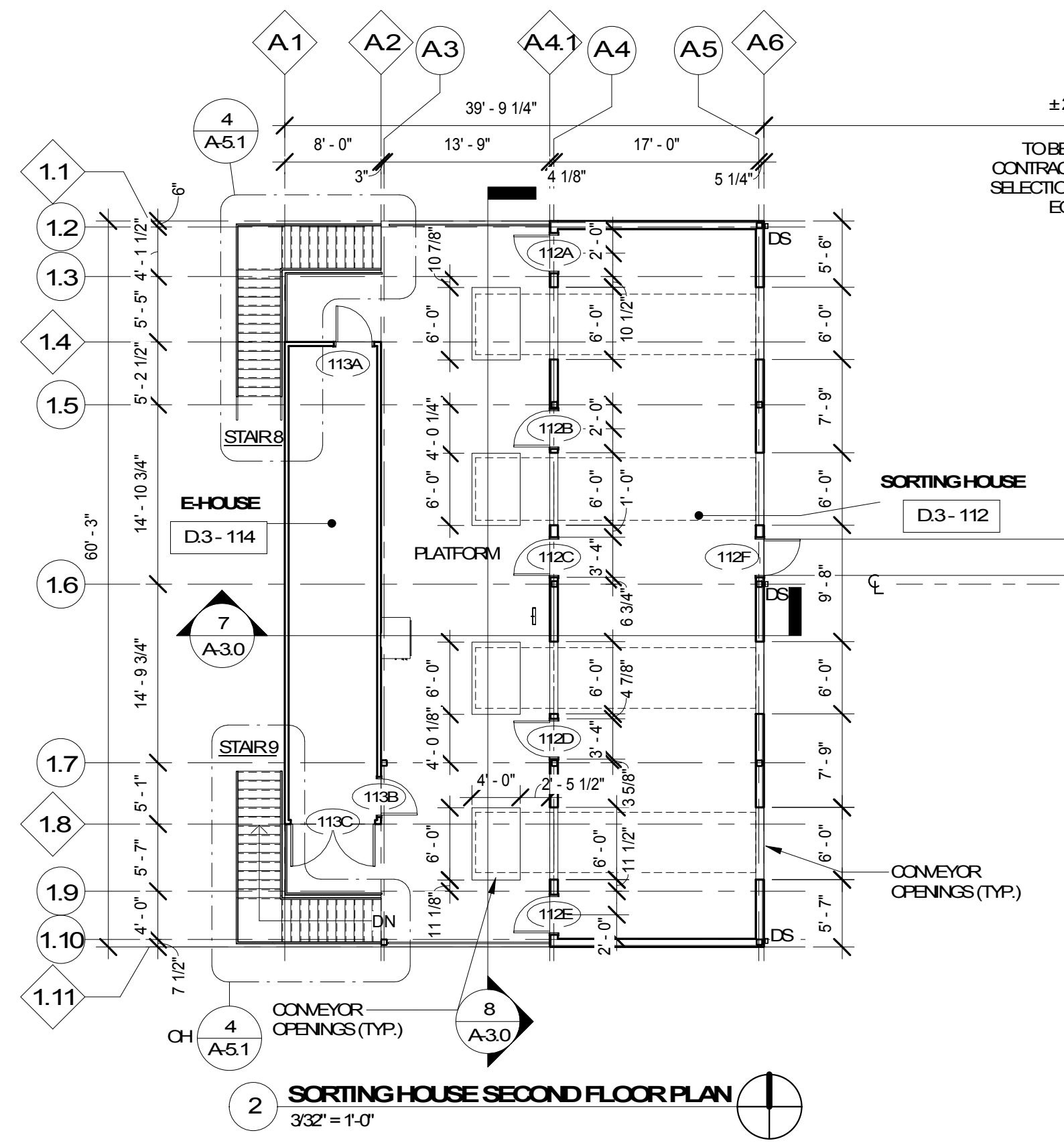
**KNIGHT**  
Engineers & Architects  
Knight E/A, Inc.  
221 N. LaSalle Street  
Suite 300  
Chicago, IL 60601  
Phone: (312) 577-3300  
knightea.com

PROJECT:  
**GENERAL III, LLC**  
STRUCTURE A - OFFICE / MAINTENANCE  
11551 S. AVE. O  
CHICAGO, IL., 60617

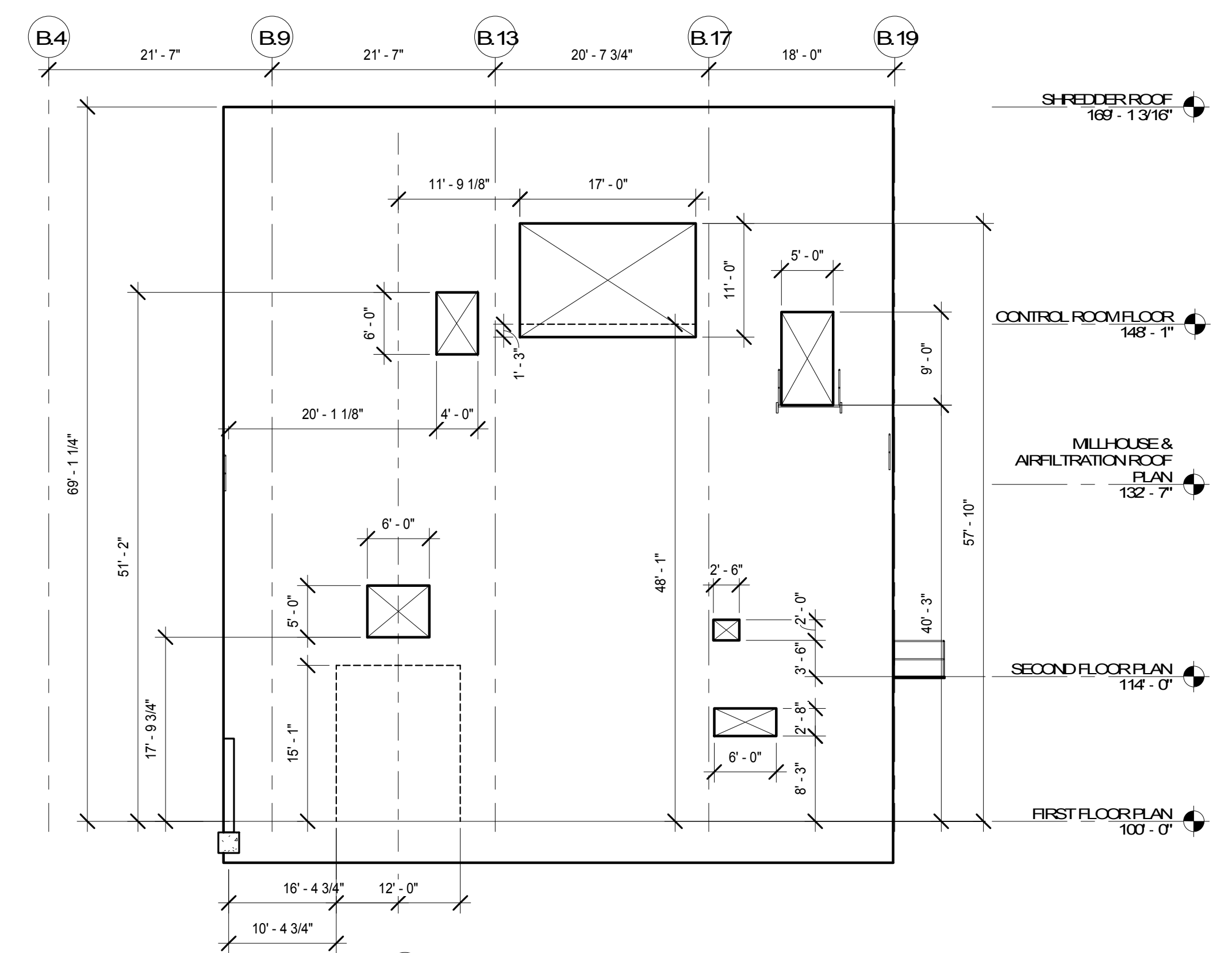
#	DATE	ISSUE
3	06/28/2020	ISSUE FOR PERMIT REVISION
2	04/01/2020	REVISION TO PERMIT
1	07/16/2019	ISSUE FOR PERMIT REVIEW

FLOOR PLAN	
PROJECT #:	DATE:
7563	7/16/19

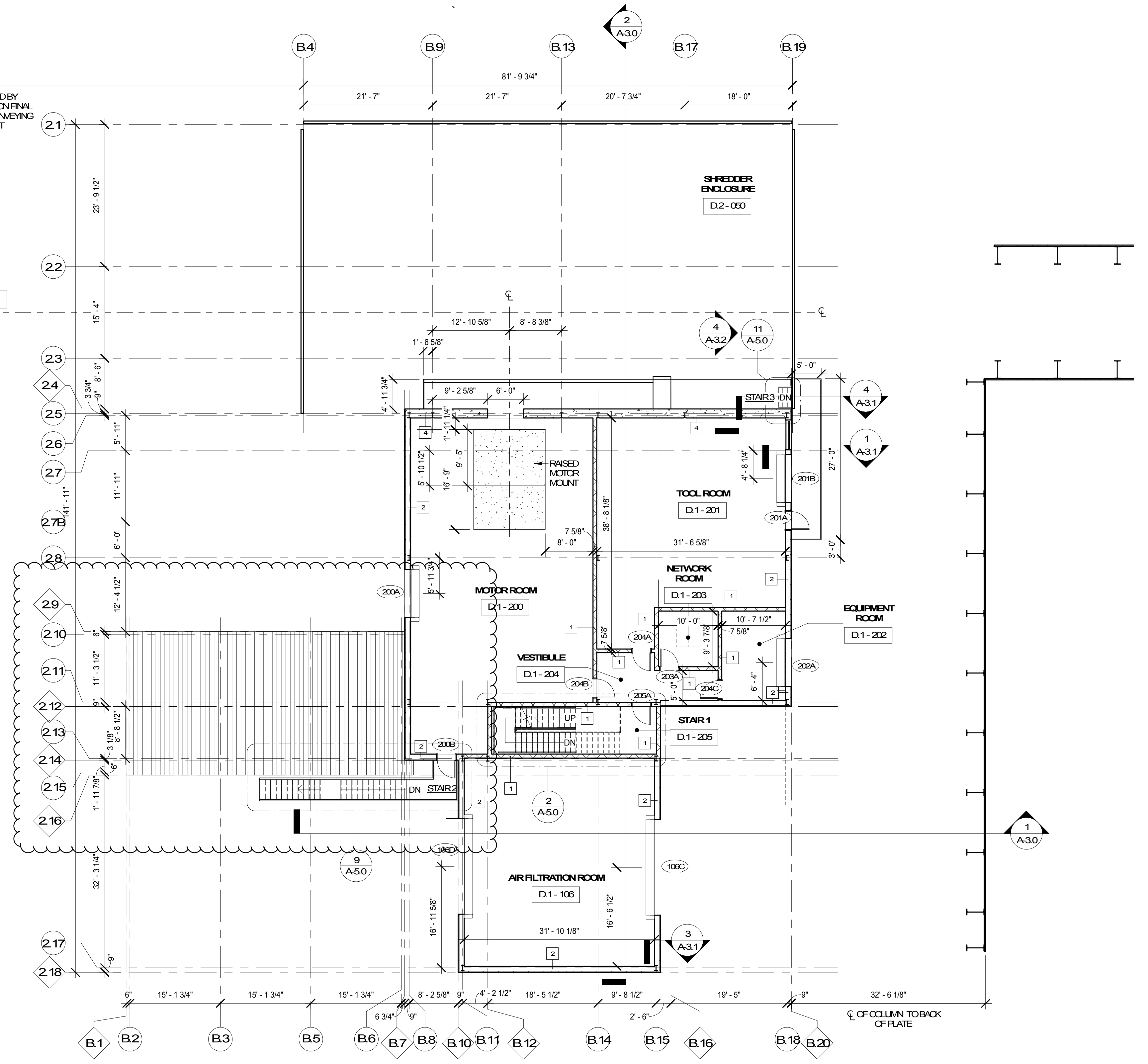
**A-1.0**



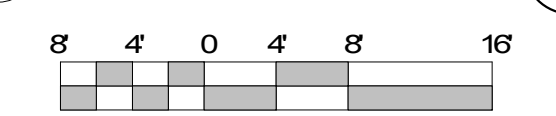
2 SORTING HOUSE SECOND FLOOR PLAN  
3/32" = 1'-0"



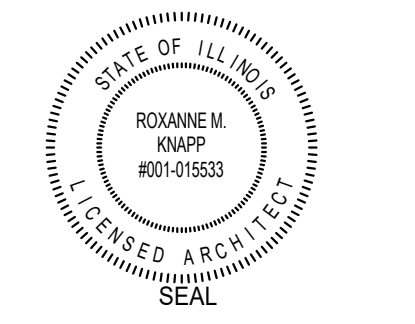
3 ELEVATION - CONC. WALL W OPENINGS  
3/32" = 1'-0"



1 SECOND FLOOR PLAN  
3/32" = 1'-0"



**KNIGHT**  
Engineers & Architects  
Knight E/A, Inc.  
221 N. LaSalle Street  
Suite 300  
Chicago, IL 60601  
Phone: (312) 577-3300  
knightea.com



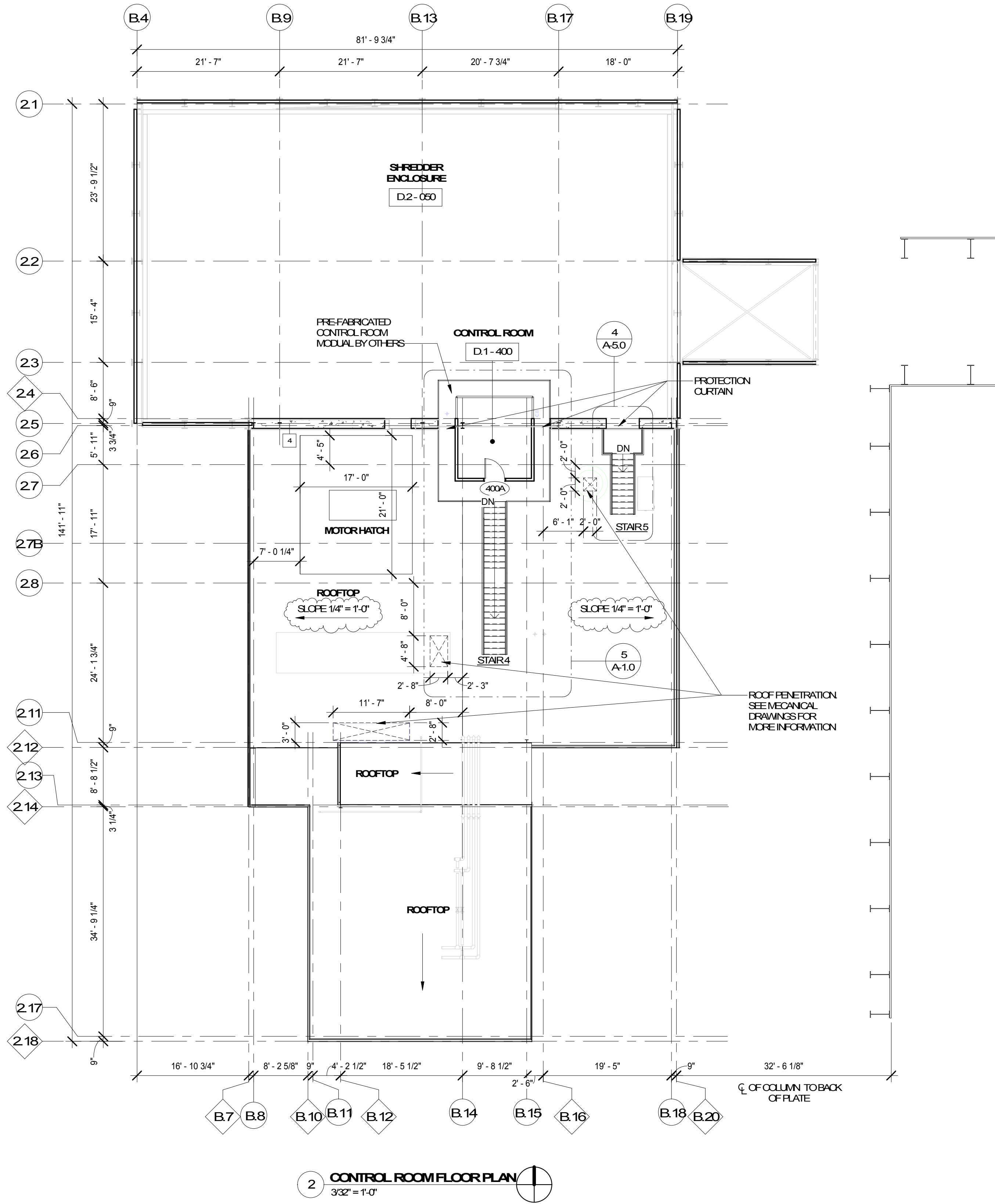
PROJECT:  
**GENERAL III, LLC**  
**STRUCTURE D - SHREDDER SORTING BUILDING**  
11564 S. AVE LEO  
CHICAGO, IL, 60617

NO.	DATE	REVISION
2	04/01/2020	REVISION TO PERMIT
1	09/27/2019	ISSUED FOR PERMIT REVIEW
#		DATE ISSUE

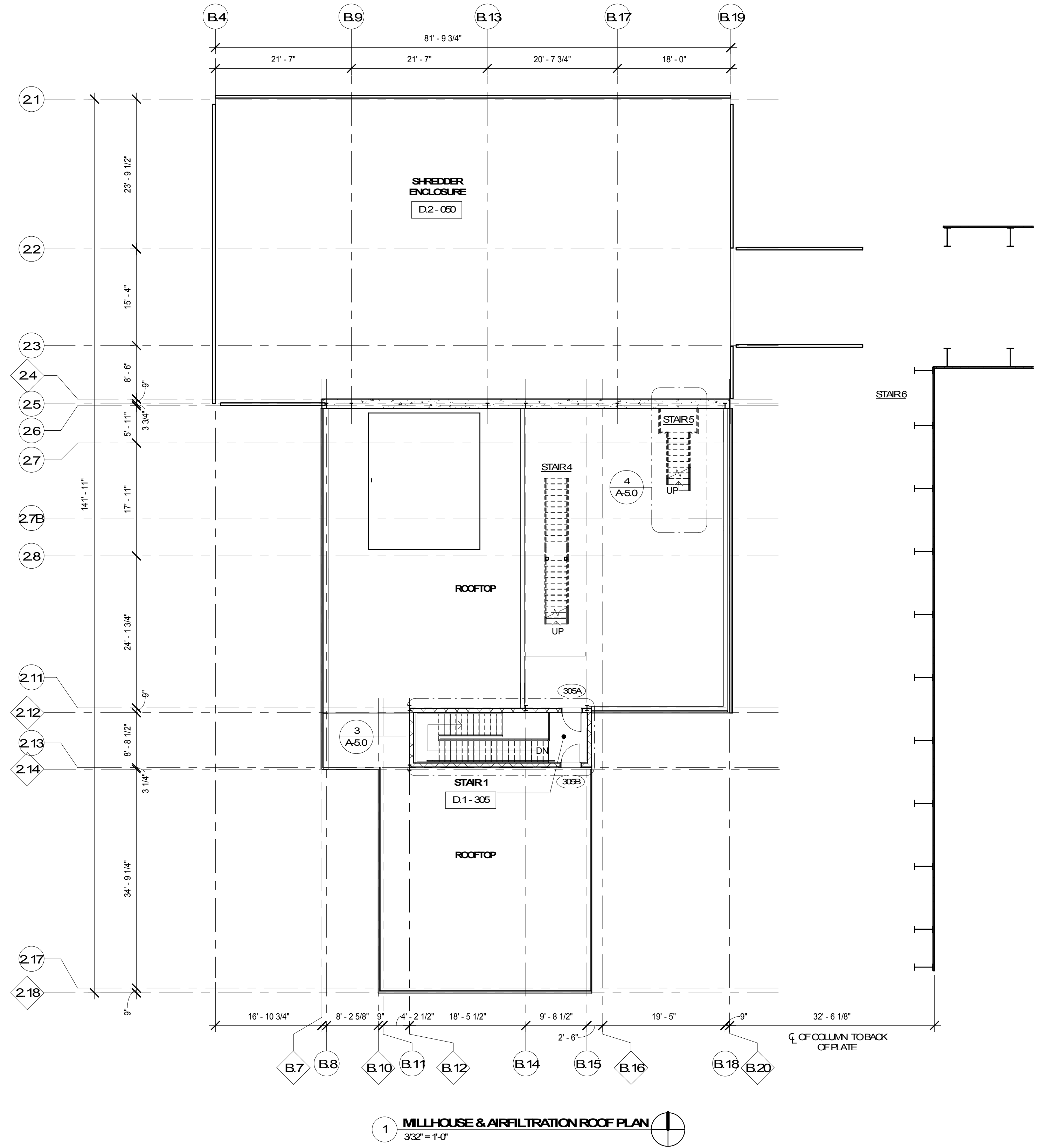
**SECOND FLOOR PLAN**

PROJECT #	DATE
7563	09/27/2019

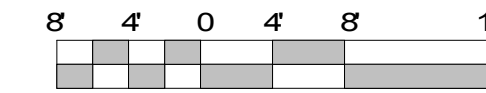
**A-1.1**



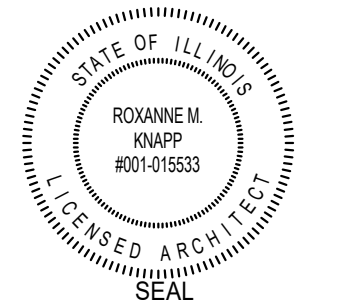
2 CONTROL ROOM FLOOR PLAN  
3/32" = 1'-0"



1 MILLHOUSE & AIR FILTRATION ROOF PLAN  
3/32" = 1'-0"



**KNIGHT**  
Engineers & Architects  
Knight E/A, Inc.  
221 N. LaSalle Street  
Suite 300  
Chicago, IL 60601  
Phone: (312) 577-3300  
knightea.com



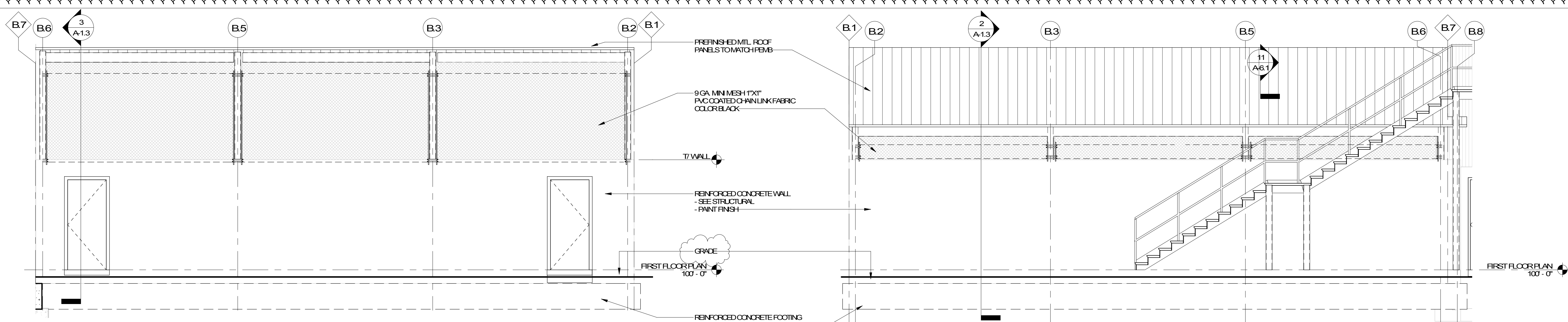
PROJECT:  
**GENERAL III, LLC**  
STRUCTURE D - SHREDDER SORTING BUILDINGS  
11554 S. AVENUE C  
CHICAGO, IL, 60617

3	06/22/2020	ISSUE FOR PERMIT REVISION
2	04/01/2020	REVISION TO PERMIT
1	09/27/2019	ISSUED FOR PERMIT REVIEW
#	DATE	ISSUE

**CONTROL ROOM PLAN**

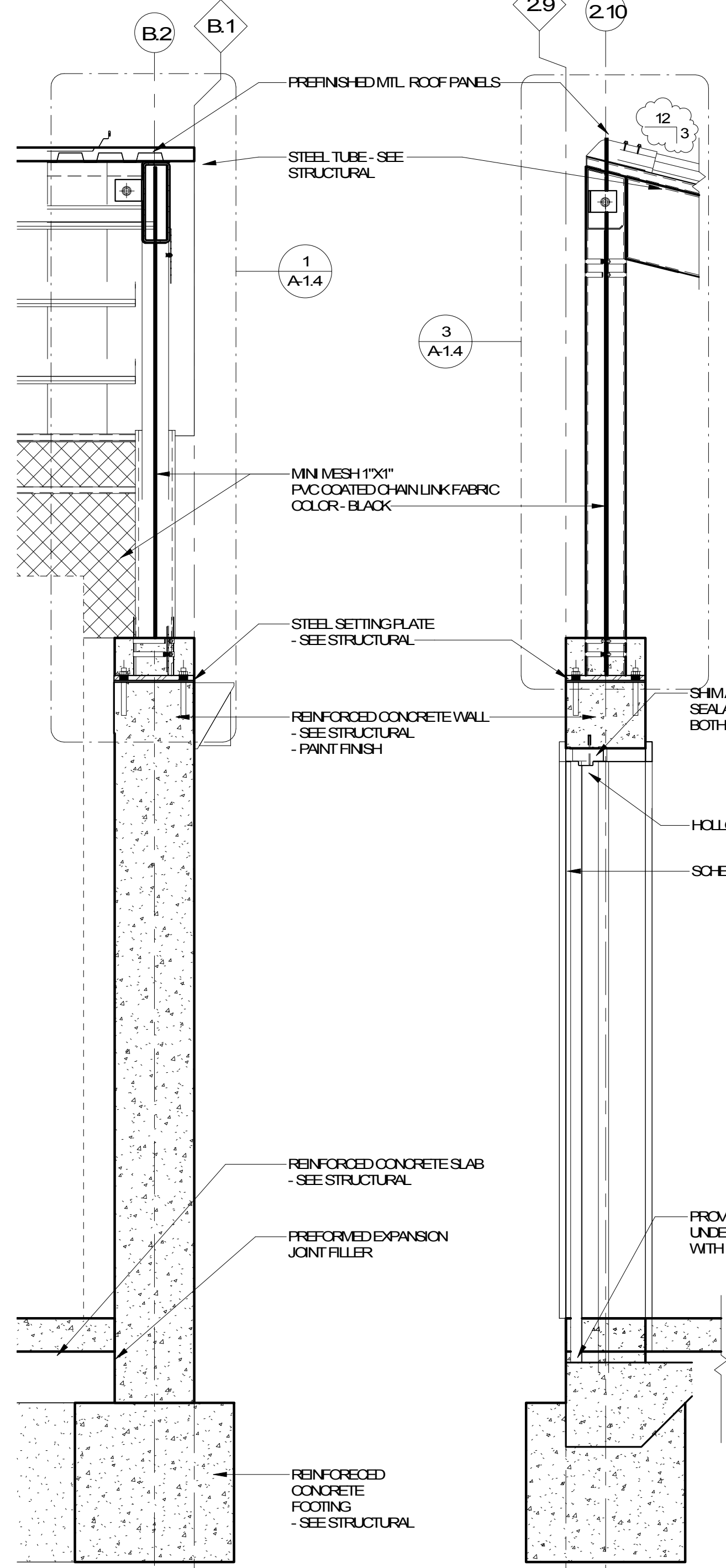
PROJECT #	DATE
7563	09/27/2019

**A-12**

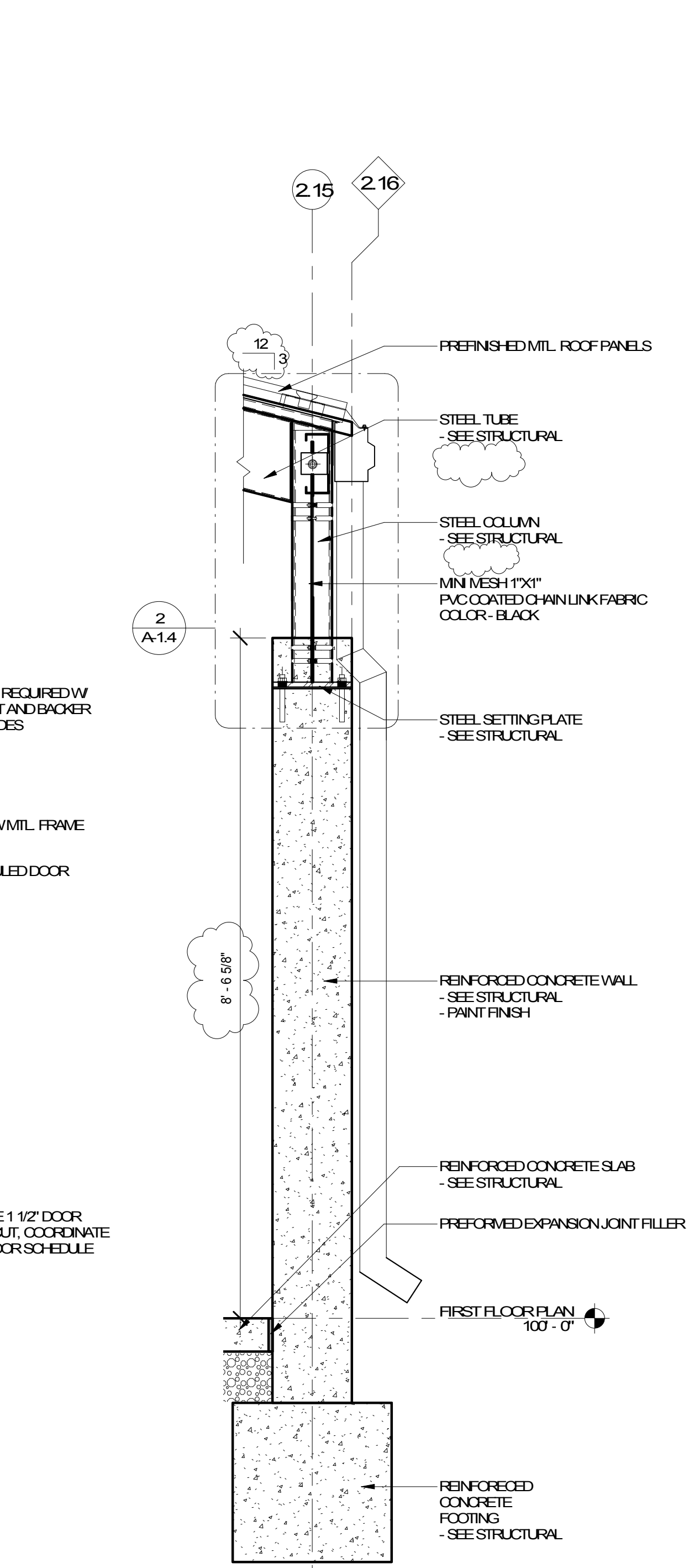


5 TRANS. ENCLOSURE - NORTH ELEVATION  
1/4" = 1'-0"

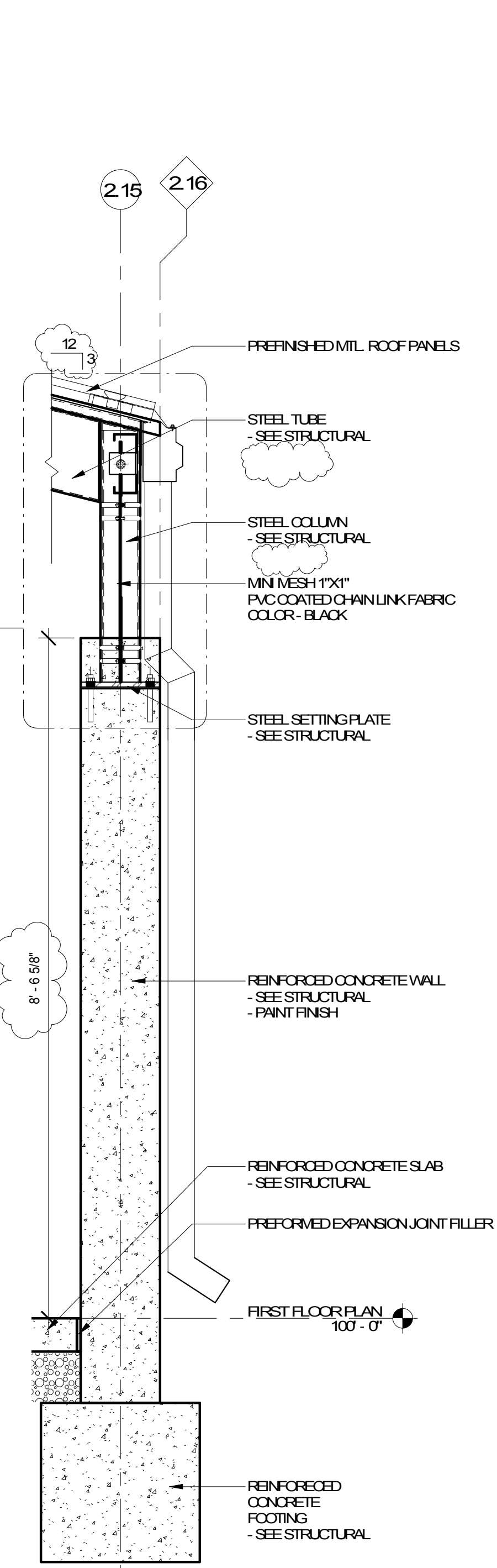
6 TRANS. ENCLOSURE - SOUTH ELEVATION  
1/4" = 1'-0"



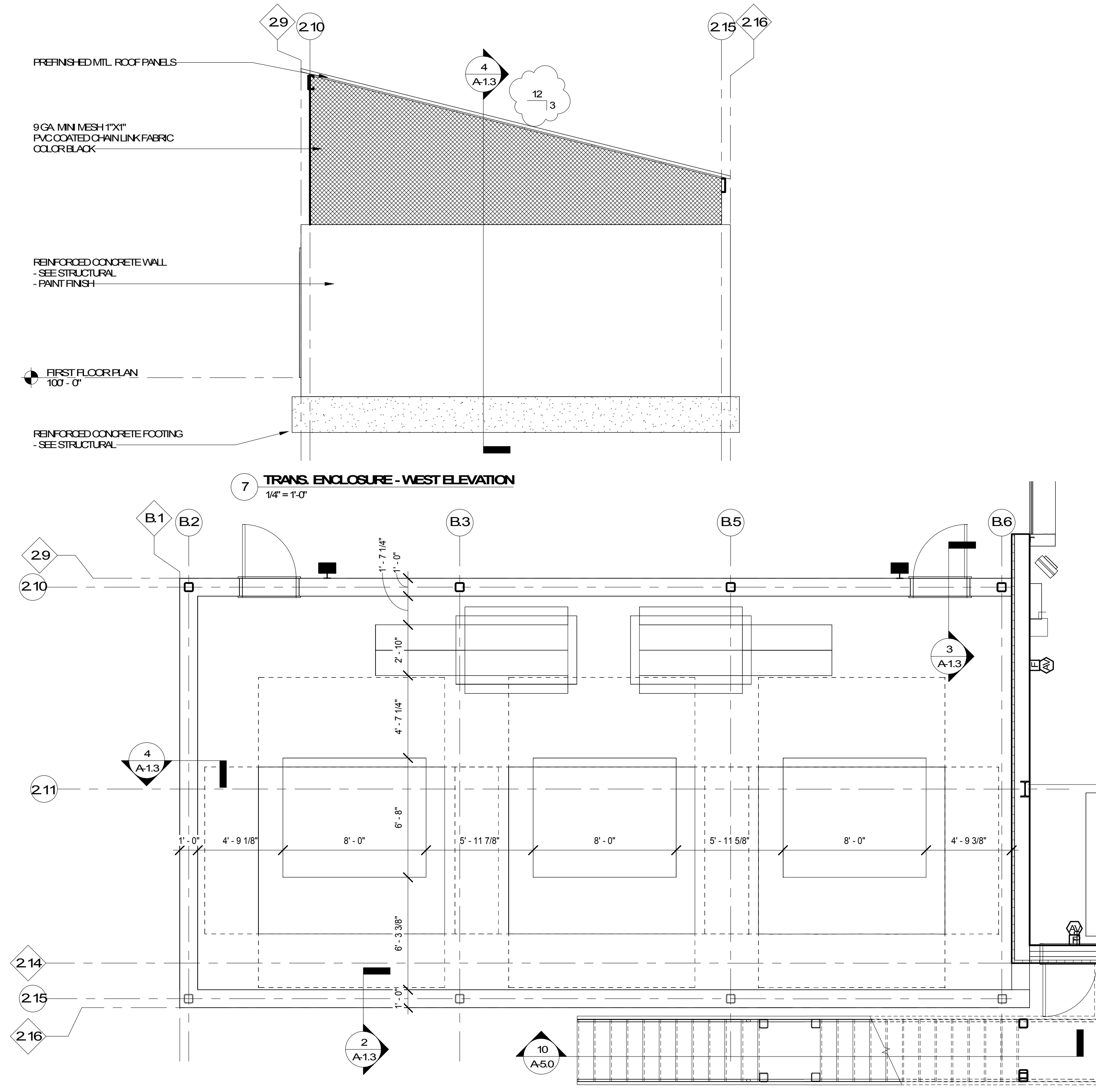
4 TRANS. ENCLOSURE - WALL SECTION 1  
3/4" = 1'-0"



3 TRANS. ENCLOSURE - WALL SECTION 2  
3/4" = 1'-0"

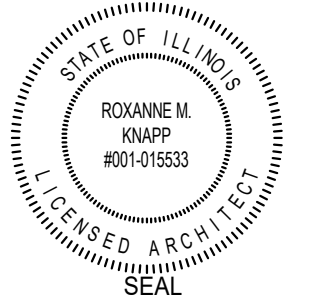


2 TRANS. ENCLOSURE - WALL SECTION 3  
3/4" = 1'-0"



1 TRANSFORMER ENCLOSURE PLAN  
1/4" = 1'-0"

**KNIGHT**  
Engineers & Architects  
Knight E/A, Inc.  
221 N. LaSalle Street  
Suite 300  
Chicago, IL 60601  
Phone: (312) 577-3300  
knightea.com



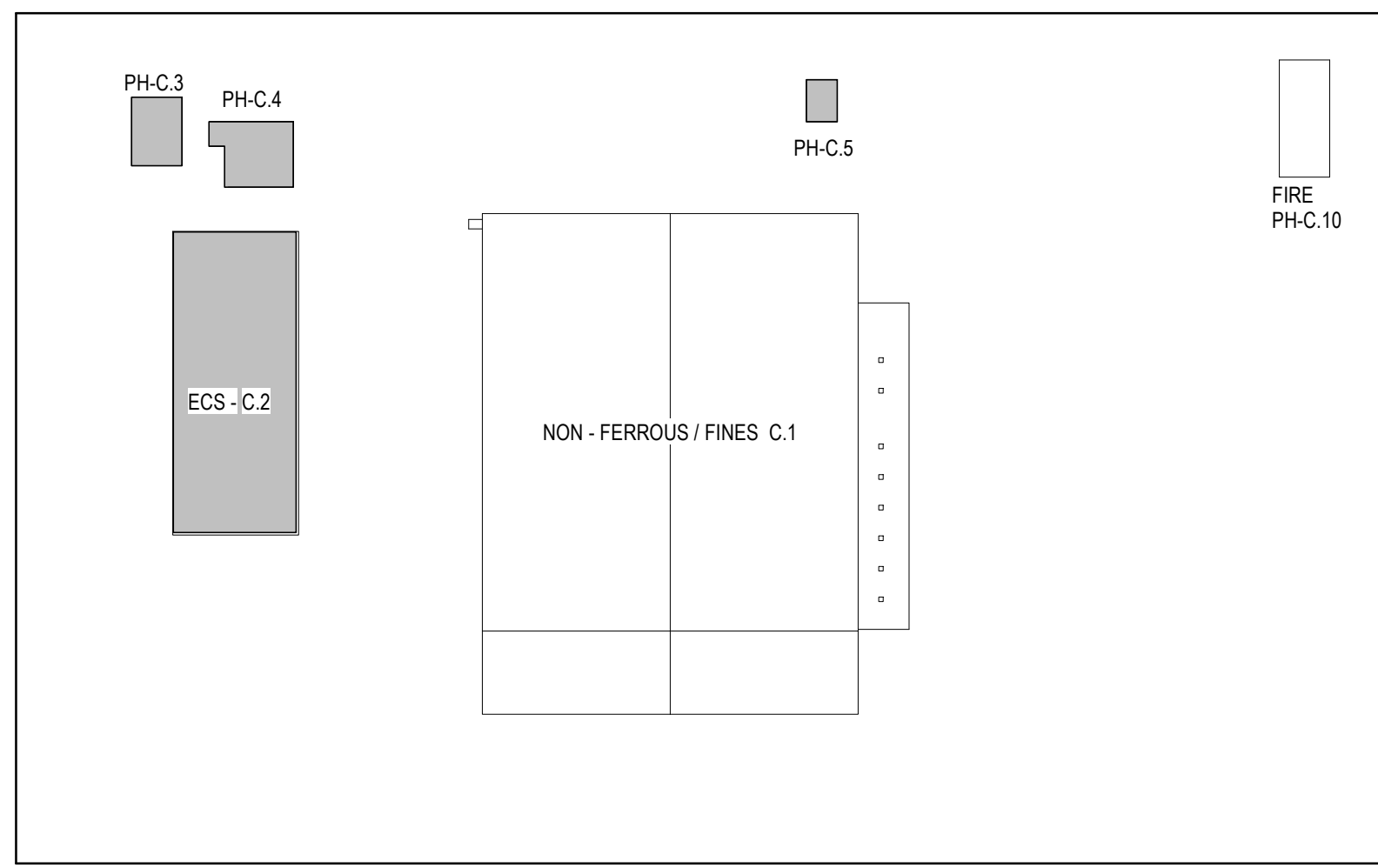
**GENERAL III, LLC**  
STRUCTURE D - SPREADER SORTING BUILDINGS  
11564 S. AVERUE O  
CHICAGO, IL., 60617

06/22/2020 ISSUE FOR PERMIT REVISION  
04/01/2020 REVISION TO PERMIT  
DATE ISSUE

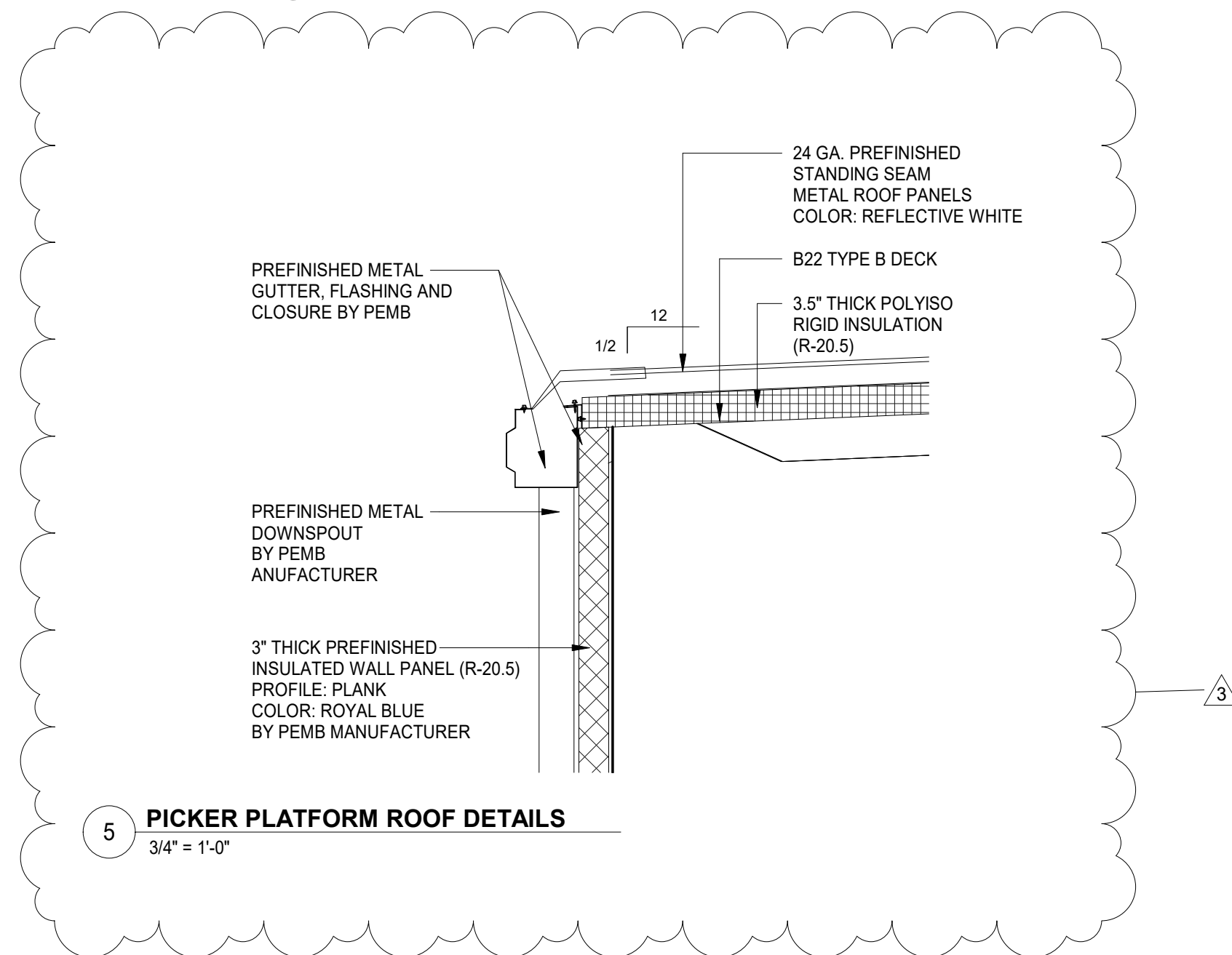
**TRANSFORMER ENCLOSURE**

PROJECT # 7563 DATE 10/15/19

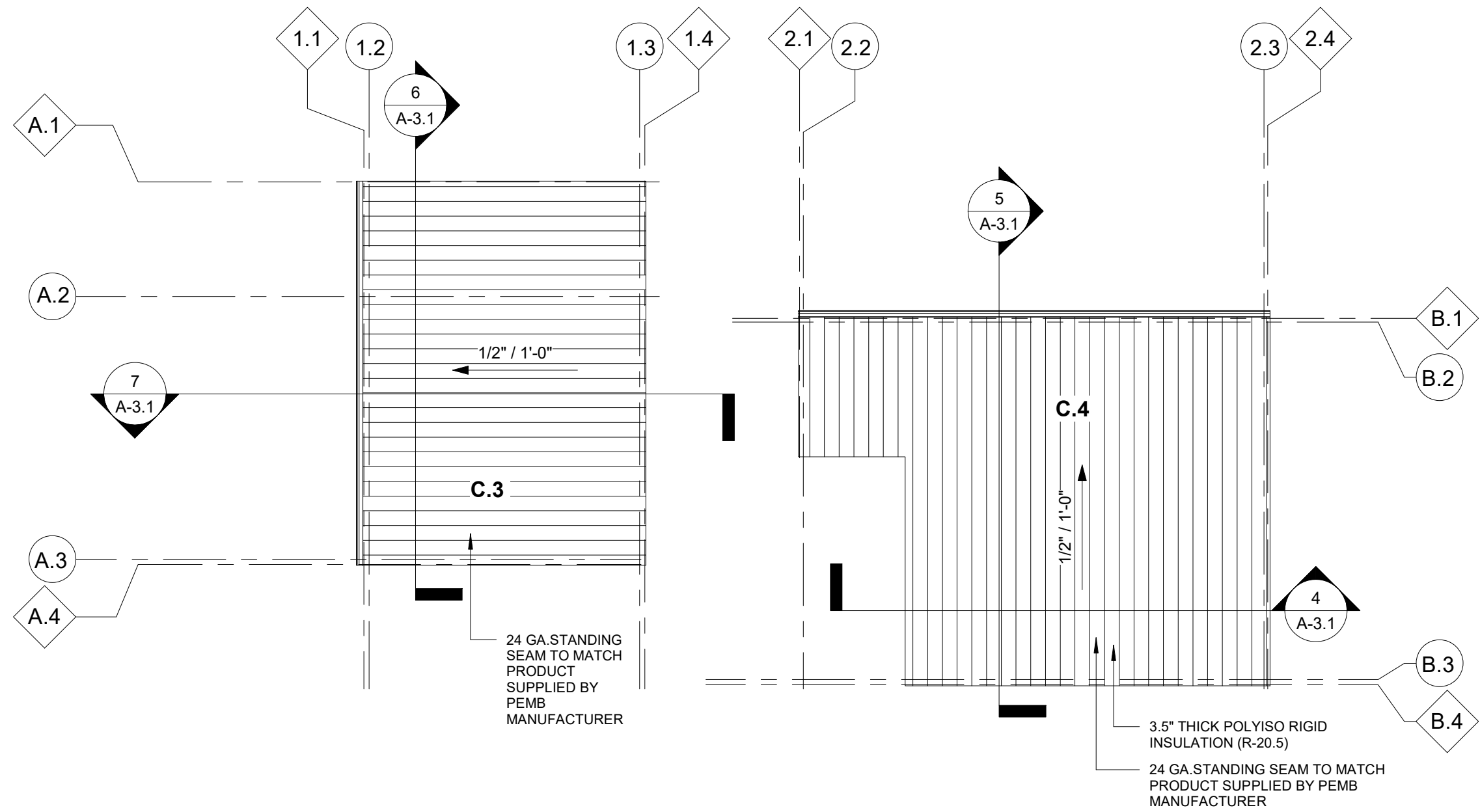
**A-13**



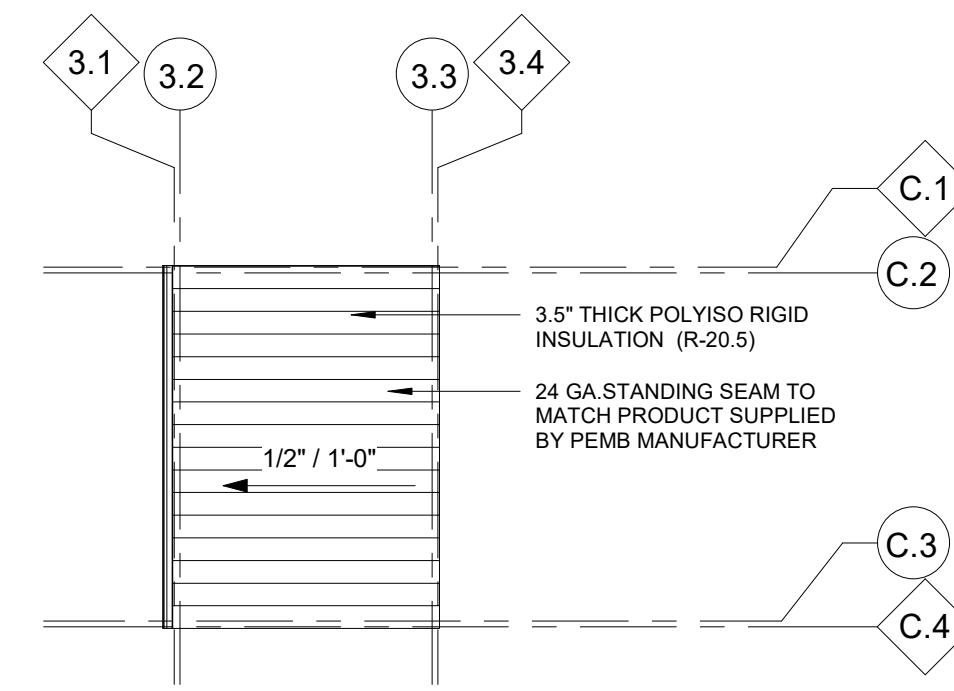
4 KEY PLAN  
1" = 60'-0"



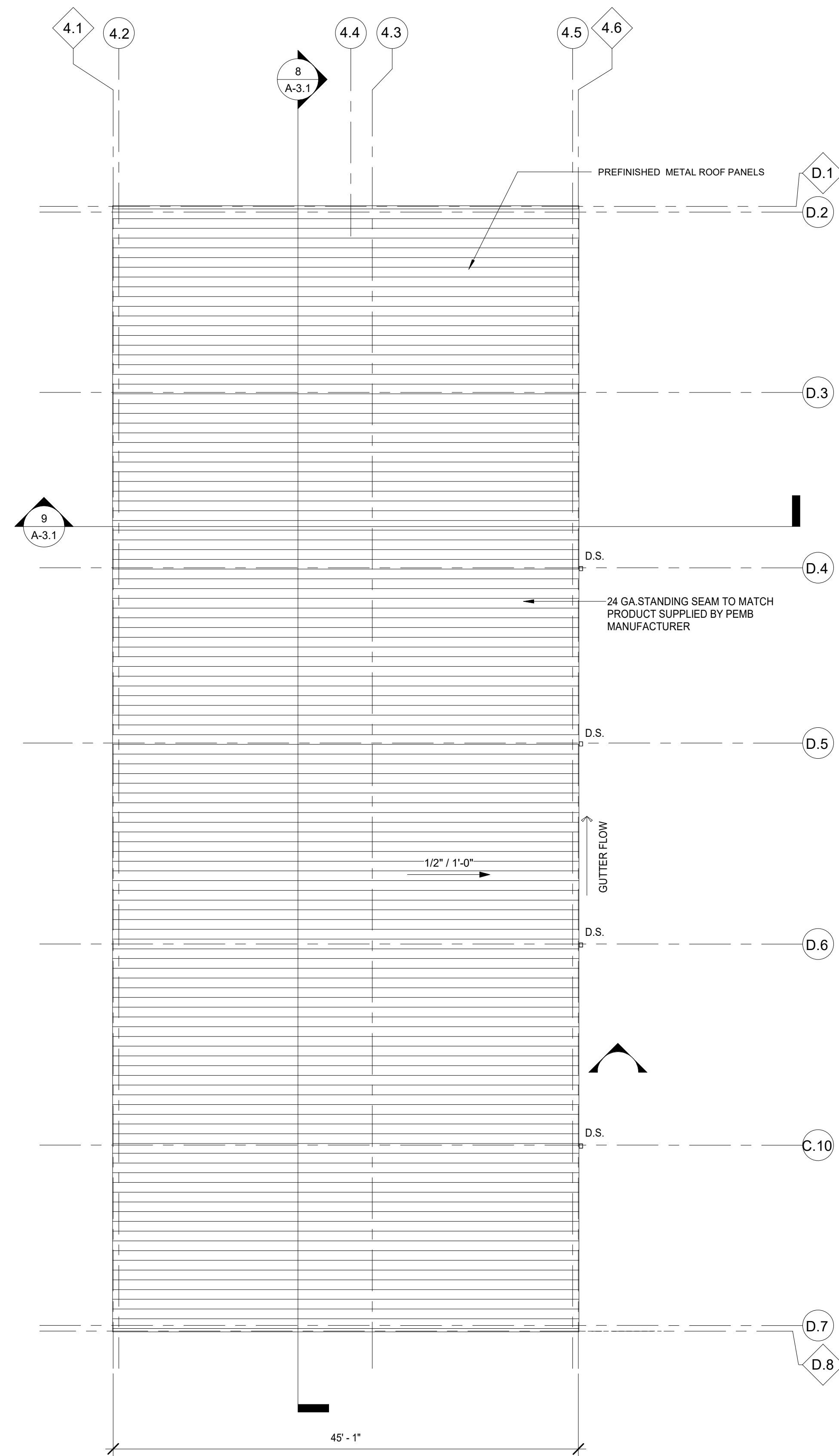
5 PICKER PLATFORM ROOF DETAILS  
3/4" = 1'-0"



2 PICKER PLATFORM C.3 & C.4 ROOF PLAN  
1/8" = 1'-0"

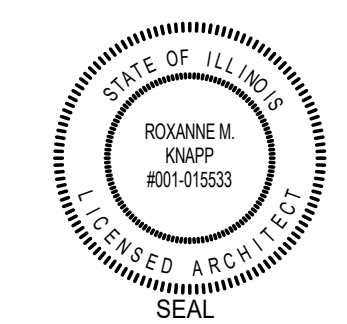


3 PICKER PLATFORM C.5 ROOF PLAN  
1/8" = 1'-0"



1 ECS C.2 PLATFORM ROOF PLAN  
1/8" = 1'-0"

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221 N. LaSalle Street  
Suite 300  
Chicago, IL 60601  
Phone: (312) 577-3300  
knightea.com



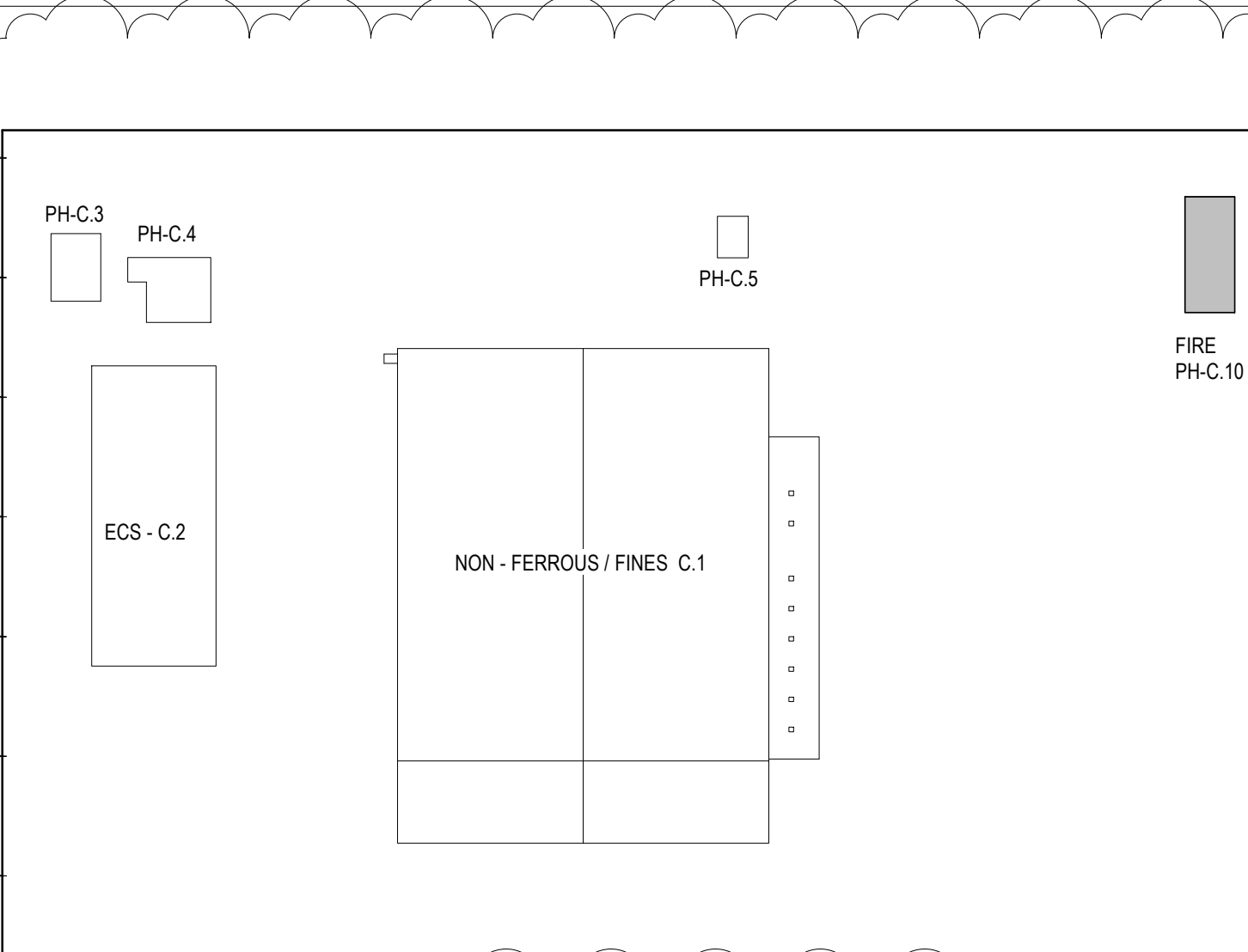
PROJECT:  
**GENERAL III**  
**STRUCTURE C - NON-FERROUS BUILDINGS**  
11554 S AVE. O  
CHICAGO, IL 60617

3	06/22/2020	REVISION TO PERMIT
2	04/01/2020	ISSUE FOR REVISION TO PERMIT
1	08/09/2019	ISSUED FOR PERMIT REVIEW
#	DATE	ISSUE

**EQPM. PLATFORM & PICKER PLATFORM ROOF PLANS**

PROJECT #: 7563  
DATE: 08/21/19

**A-1.4**



10 KEY PLAN  
1" = 60'-0"

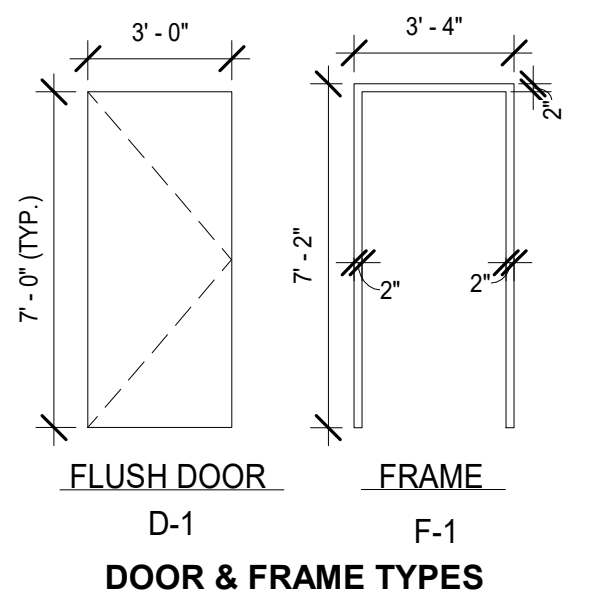
**NOTE:**  
STRUCTURE C.10 IS TO BE PROVIDED  
BY THE PEMB MANUFACTURER.

DOOR SCHEDULE:											
DOOR No.	PANEL				FRAME				HARDWARE SET	CARD READER	COMMENTS
	WIDTH	HEIGHT	THICKNESS	MAT.	CORE	TYPE	MAT.				
100L	8'-0"	7'-0"	-	-	-	-	-	STL	-	-	DOOR BY OTHERS
100M	8'-0"	7'-0"	-	-	-	-	STL	-	-	-	DOOR BY OTHERS
100N	3'-0"	7'-0"	1'-3/4"	HM	INSUL	F-1	HM-18	1	YES	-	
100P	3'-0"	7'-0"	1'-3/4"	HM	INSUL	F-1	HM-18	1	YES	-	

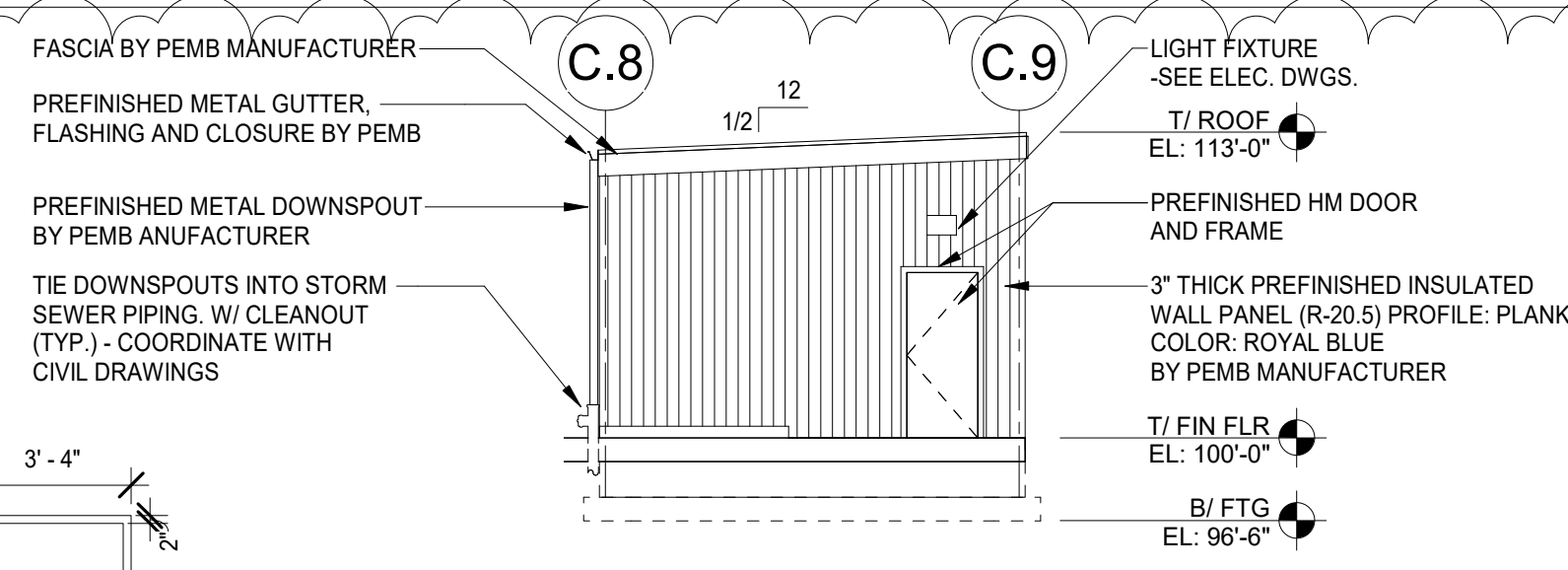
**DOOR & WINDOW ABBREVIATION SCHEDULE:**  
HM = HOLLOW METAL, PAINTED, STL = STEEL

DOOR HARDWARE SCHEDULE		
Set: 1.0		
3 BB Hinge NRP	TA2714 1/2" x 4 1/2"	US32D MK
1 Access Control Mort Lock (SAFE)	1-82270-IPS LNMK	US32D SA
2 Lever Handles (1 ea. side)	Tactile Warning at exterior	US32D SA
1 Door Closer w/ stop arm	CPS7500	689 NO
1 Kick Plate	K1050 6" high 4BE CSK	US32D RO
1 Threshold	2523-3AFC	PE
1 Drip Cap	346C	PE
1 Head Gasketing	2891AS	PE
1 Jamb Gasketing Set	290AS	PE
1 Sweep w/ Drip cap	345ANB	PE
1 Wiring Diagram	By Security Contractor	PE
1 Card reader	DPS-M-BK	SU
1 Position Switch	AQD3	SU
1 Power Supply		

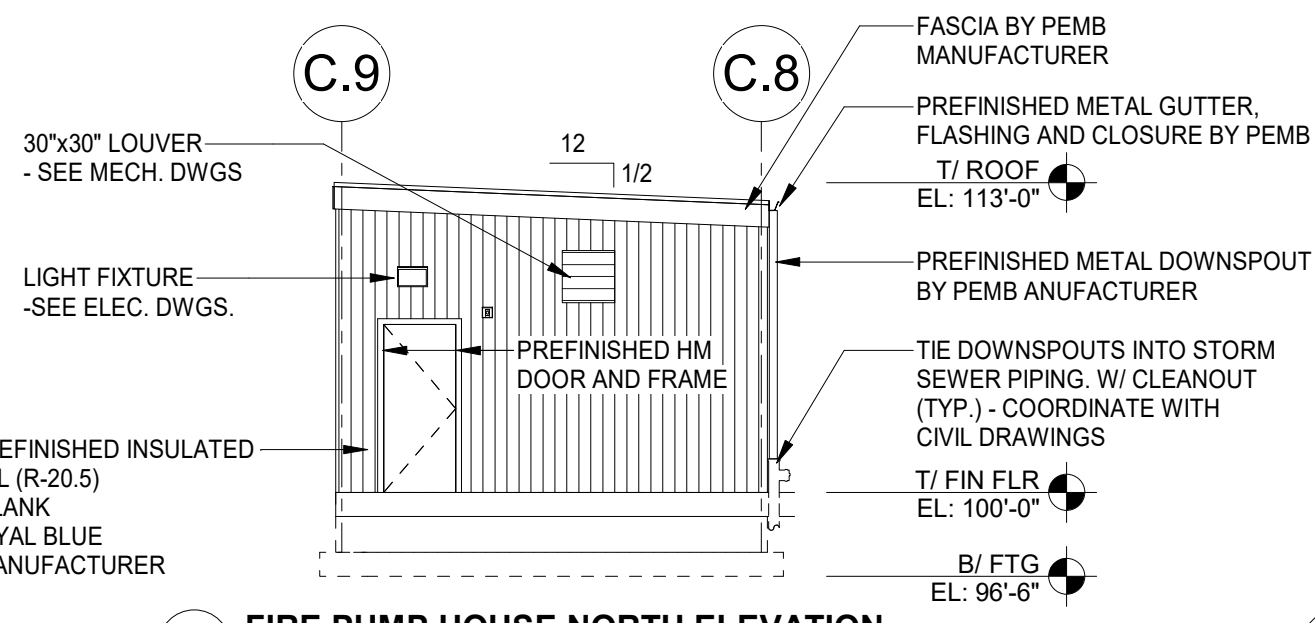
- DOOR SCHEDULE NOTES:**
- IT IS THE RESPONSIBILITY OF THE DOOR HARDWARE CONTRACTOR TO ENSURE THAT ALL DOORS AND DOOR HARDWARE CONFORMS WITH CURRENT ILLINOIS ACCESSIBILITY CODE AND FEDERAL ADA REGULATIONS. NO KEYPED LOCKSETS ALLOWED ON THE MEANS OF EGRESS SIDES OF EXIT DOORS. PROVIDE OPERATING DEVICES CAPABLE OF OPERATION WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF WRIST TO OPERATE. EGRESS DOORS SHALL OPEN READILY FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
  - PROVIDE DETECTABLE WARNINGS (KNURLED HARDWARE) AT ALL DOORS TO HAZARDOUS AREAS INCLUDING BUT NOT LIMITED TO JANITOR'S CLOSET, MECHANICAL & ELECTRICAL ROOMS, IN ACCORDANCE WITH ANSI 427.3.
  - PROVIDE SIGNAGE INDICATING INTERNATIONAL SYMBOL, FOR ACCESSIBILITY AT ACCESSIBLE ENTRANCES IN ACCORDANCE TO ANSI SECTION 428.5.
  - VERIFY ALL DOOR HARDWARE & FINISHES W/ OWNER PRIOR TO CONSTRUCTION.
  - ALL EXTERIOR HOLLOW METAL TO BE INSULATED.
  - ALL FIRE RATED DOORS TO BE U.L. LABELED AND TO HAVE A MAXIMUM TRANSMITTED TEMPERATURE END POINT OF NOT MORE THAN 450 DEGREES F.



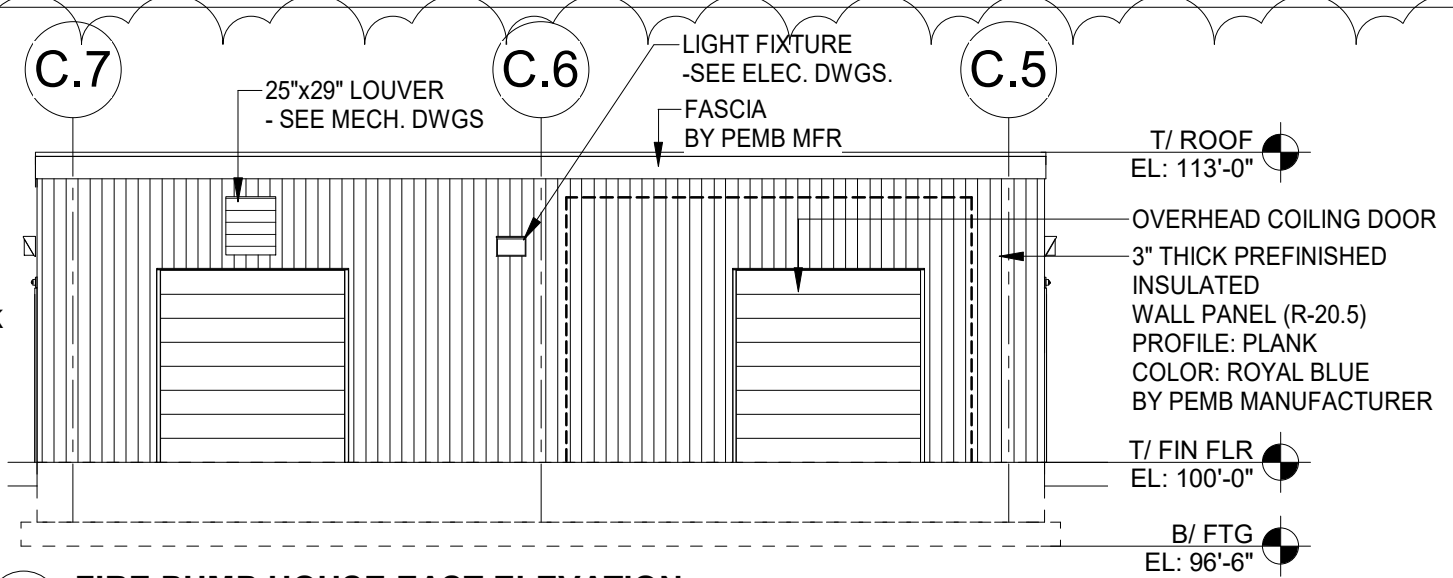
DOOR & FRAME TYPES



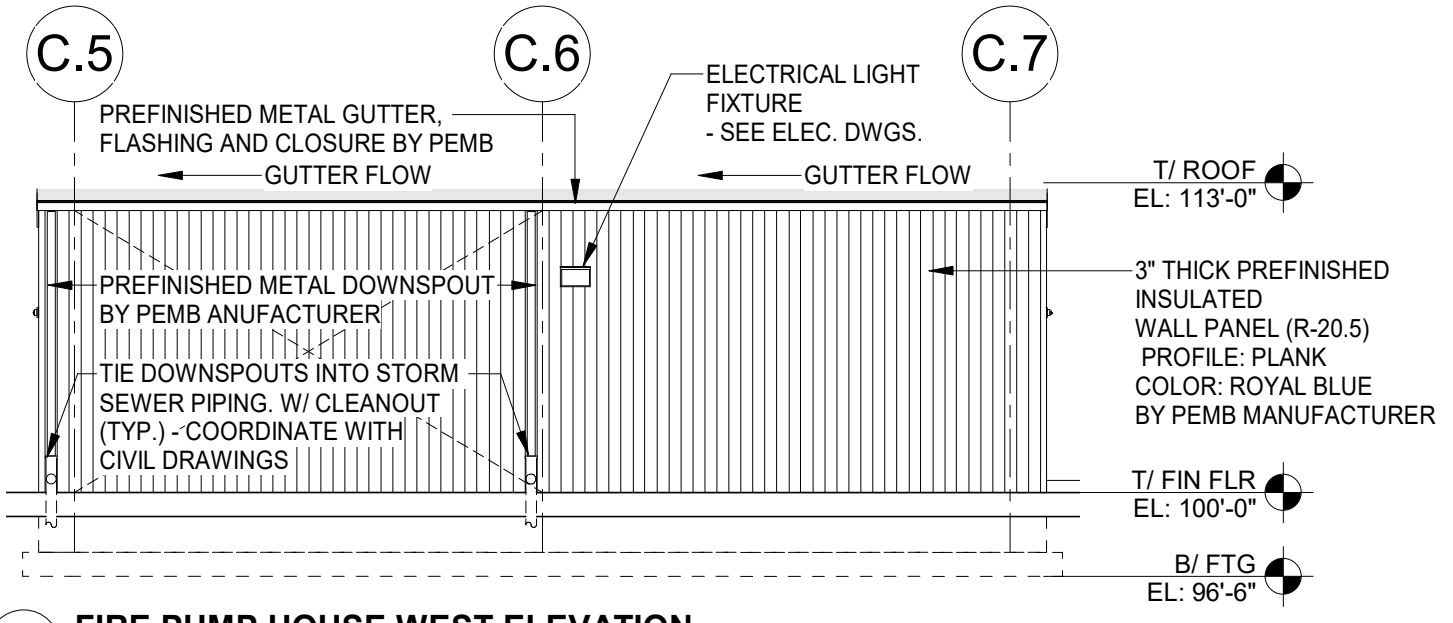
9 FIRE PUMP HOUSE SOUTH ELEVATION  
1/8" = 1'-0"



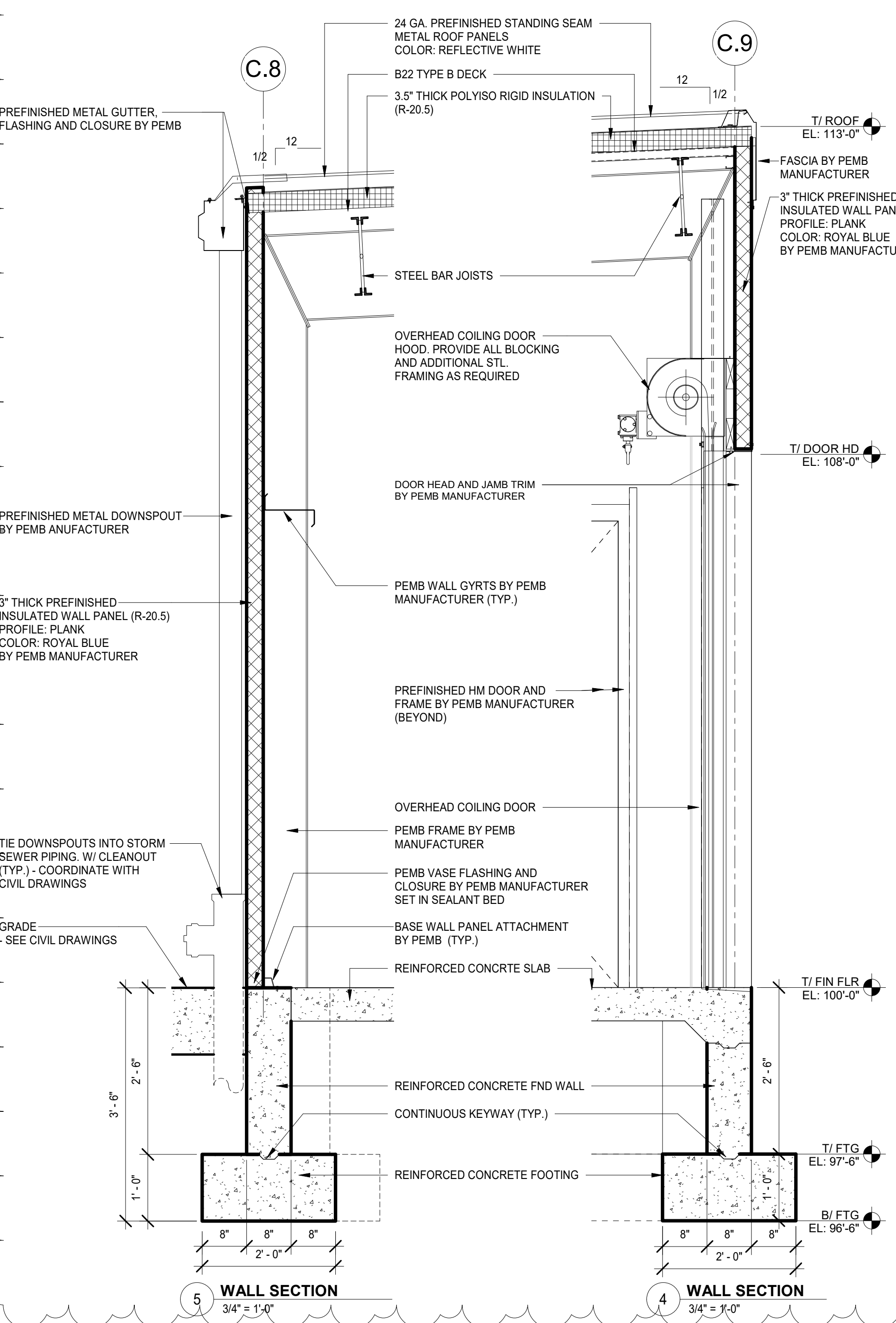
7 FIRE PUMP HOUSE NORTH ELEVATION  
1/8" = 1'-0"



8 FIRE PUMP HOUSE EAST ELEVATION  
1/8" = 1'-0"

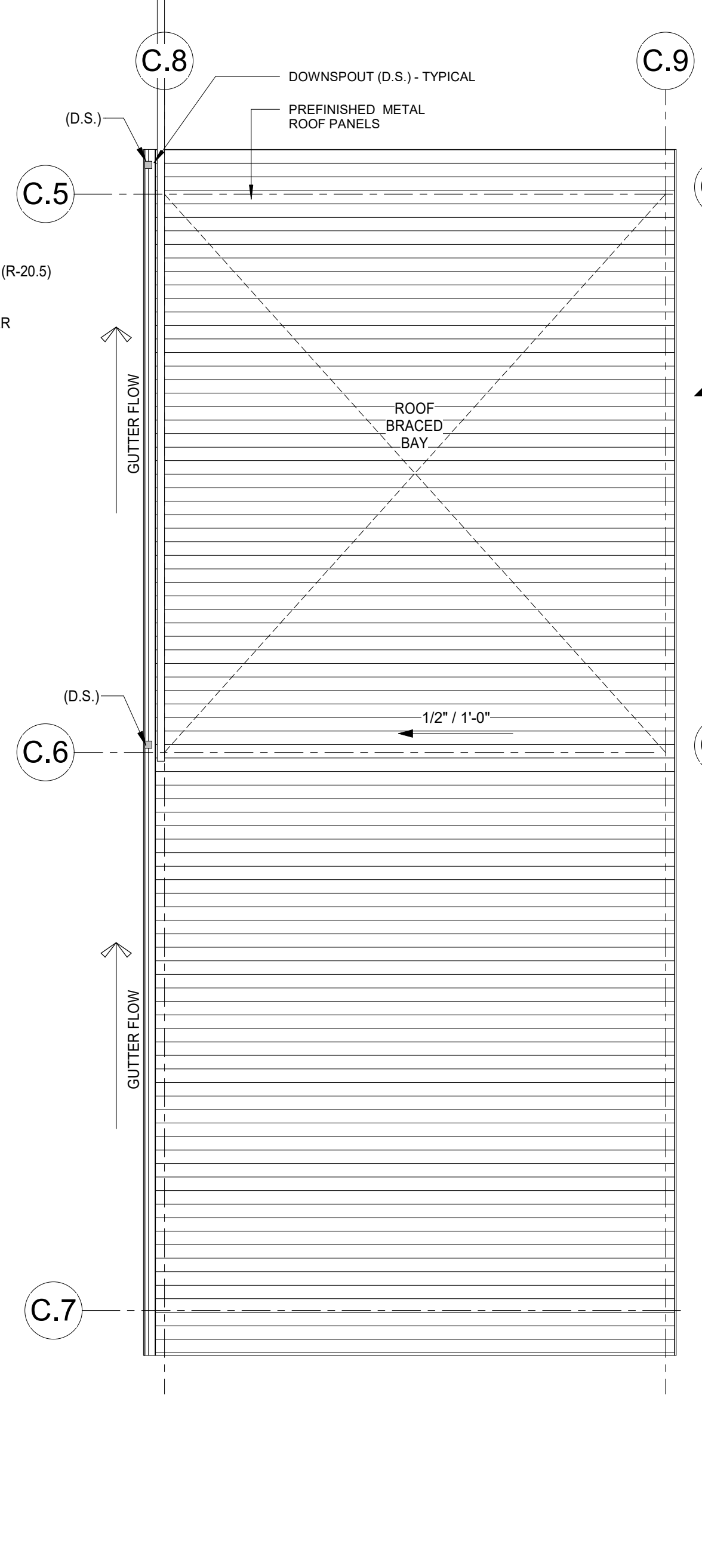


6 FIRE PUMP HOUSE WEST ELEVATION  
1/8" = 1'-0"

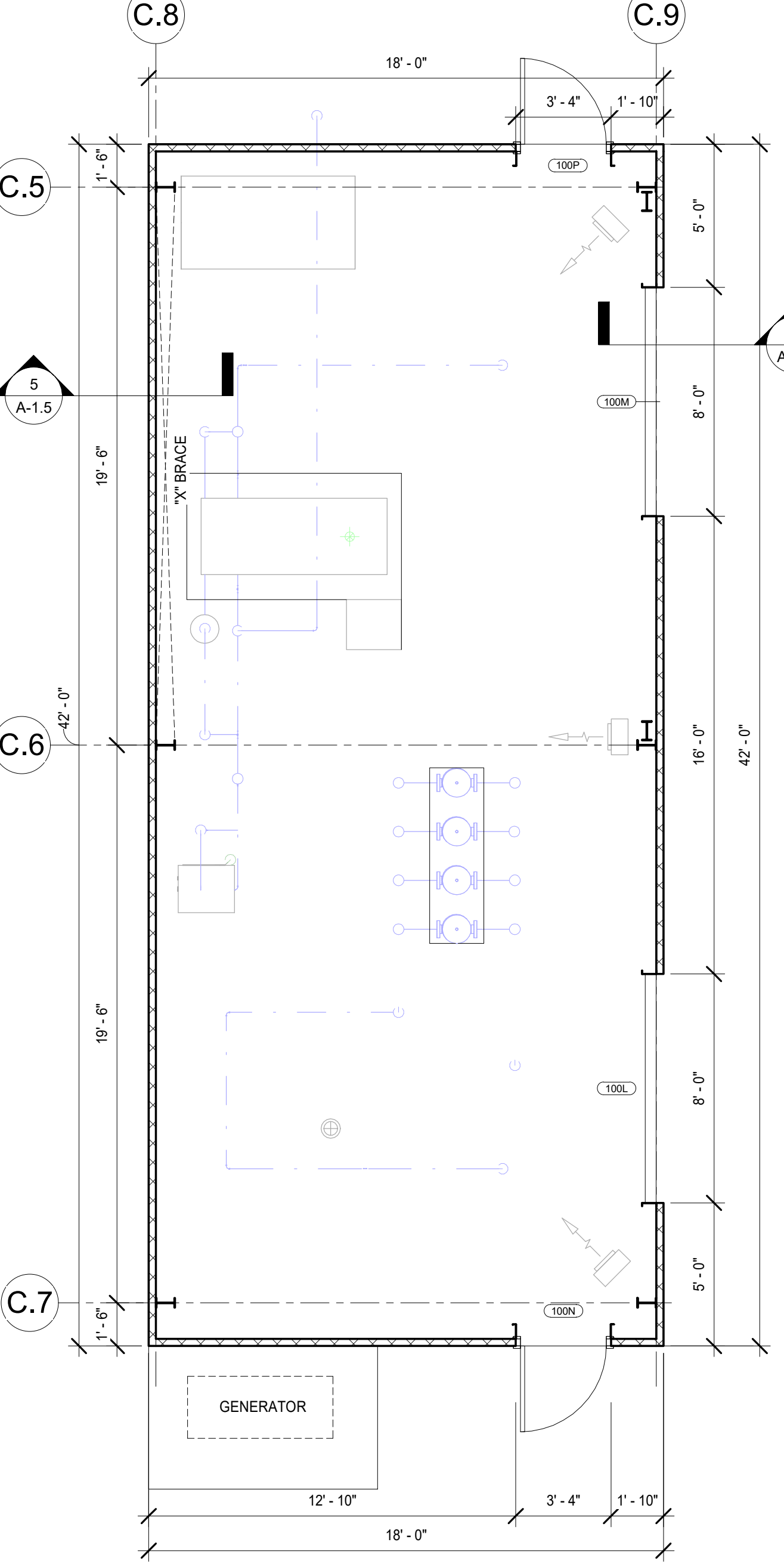


5 WALL SECTION  
3/4" = 1'-0"

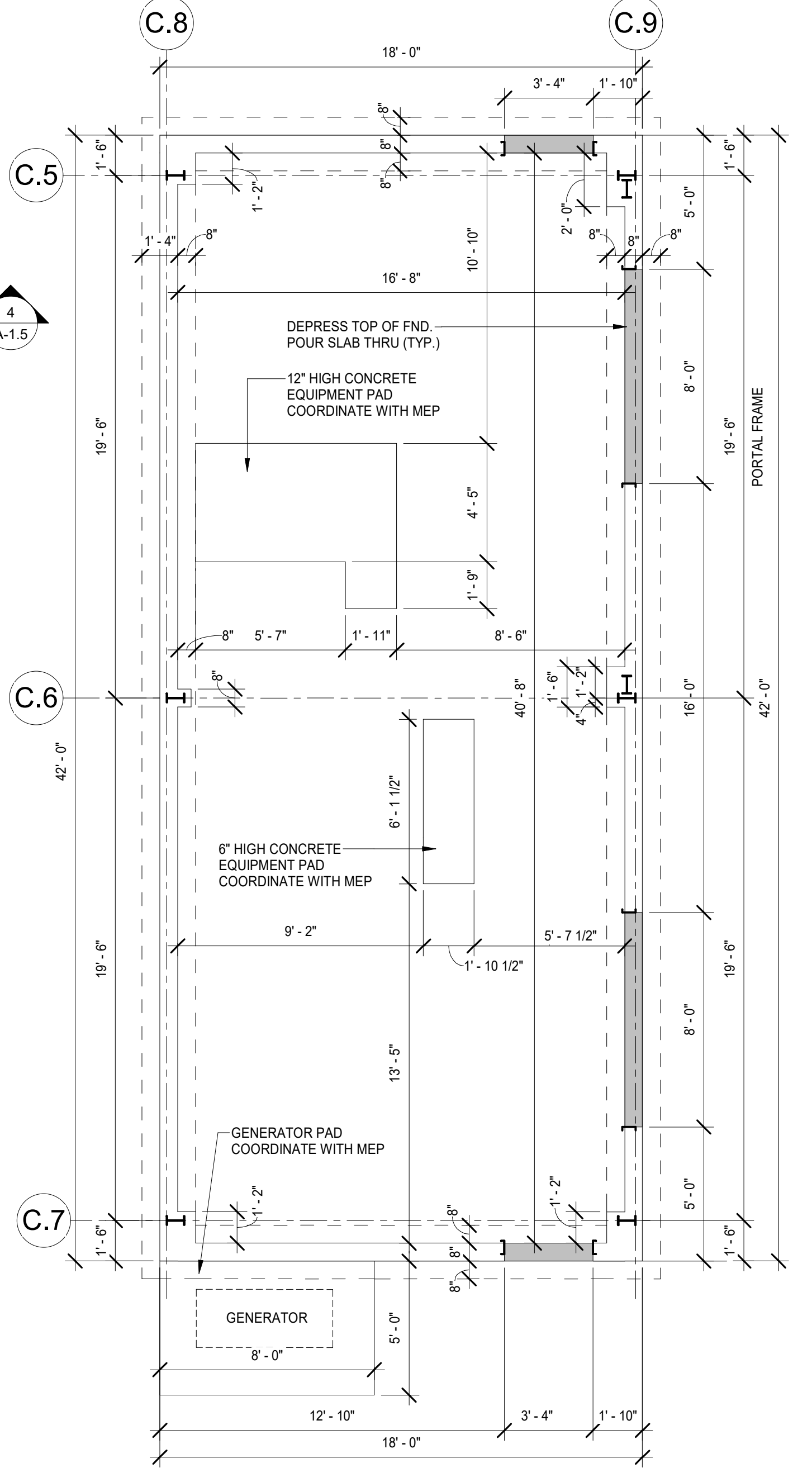
4 WALL SECTION  
3/4" = 1'-0"



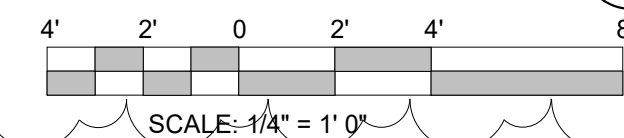
3 FIRE PUMP HOUSE C.10 ROOF PLAN  
1/4" = 1'-0"



2 FIRE PUMP HOUSE C.10 PLAN  
1/4" = 1'-0"



1 FIRE PUMP HOUSE C.10 FND PLAN  
1/4" = 1'-0"



**KNIGHT**  
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Knight E/A, Inc.  
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Chicago, IL 60601  
Phone: (312) 577-3300  
knightea.com



PROJECT: **GENERAL III**  
**STRUCTURE C - NON-FERROUS BUILDINGS**  
11554 S AVE. O  
CHICAGO, IL 60617

3	06/22/2020	REVISION TO PERMIT
2	04/01/2020	ISSUE FOR REVISION TO PERMIT
1	08/09/2019	ISSUED FOR PERMIT REVIEW
#	DATE	ISSUE

**FIRE PUMP HOUSE PLAN, ELEVATION & SECTION**

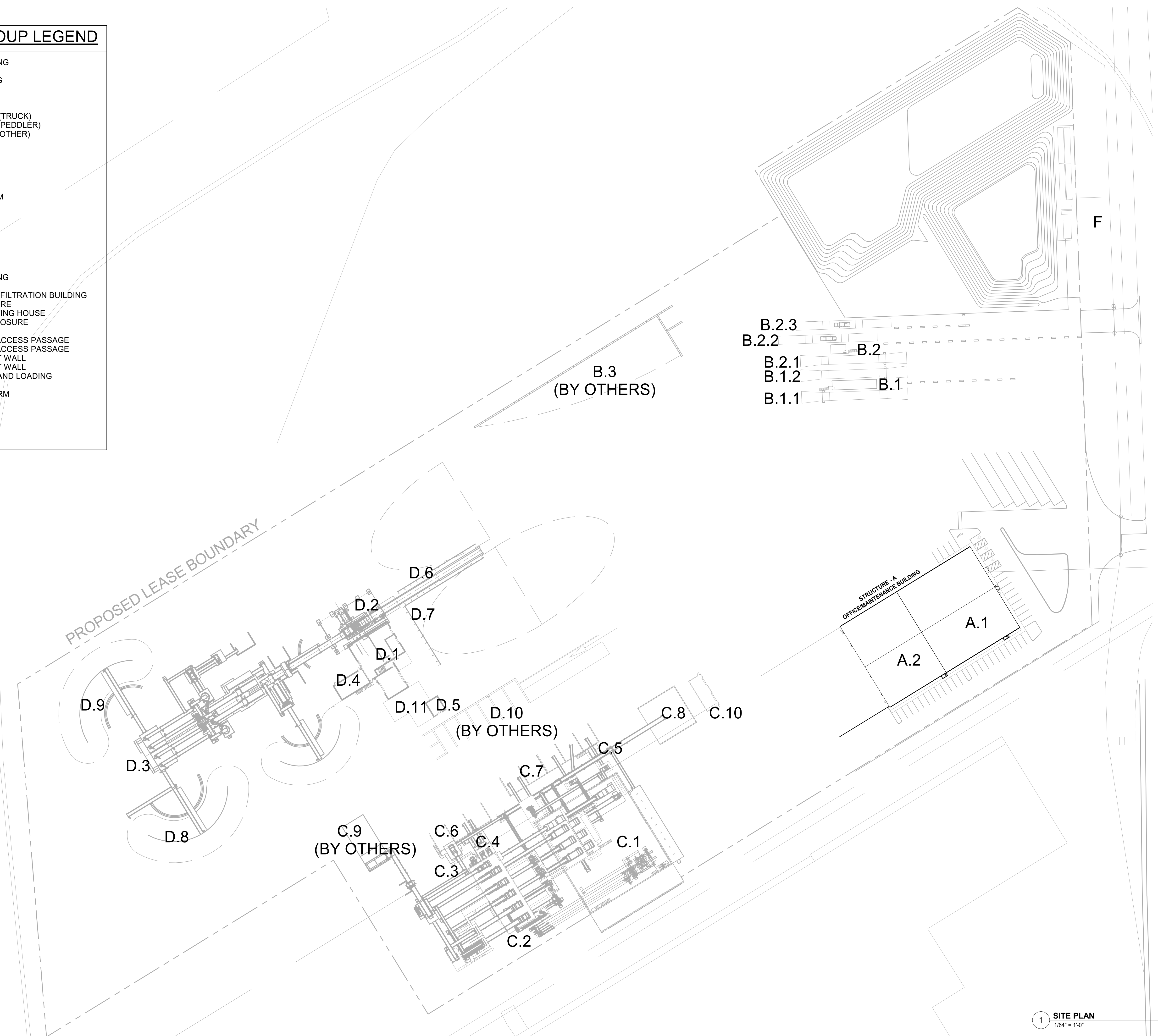
PROJECT #:	DATE:
7563	03/23/20

**A-1.5**

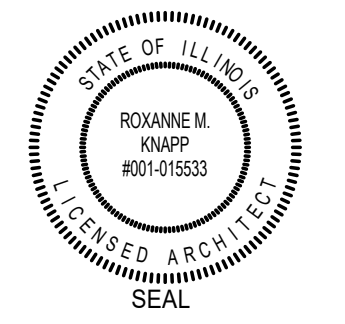


# STRUCTURE GROUP LEGEND

- A - OFFICE / MAINTENANCE BUILDING
  - A.1 - OFFICE BUILDING
  - A.2 - MAINTENANCE BUILDING
- B - SCALE HOUSES
  - B.1 - LARGE SCALE HOUSE (TRUCK)
  - B.2 - SMALL SCALE HOUSE (PEDDLER)
  - B.3 - SCRAP PILE WALL (BY OTHER)
- C - NON-FERROUS BUILDING
  - C.1 - NON-FERROUS / FINES PROCESSING
  - C.2 - ECS PLATFORM
  - C.3 - EQUIPMENT PLATFORM
  - C.4 - SORTING PLATFORM
  - C.5 - SORTING PLATFORM
  - C.6 - MATERIAL BIN WALLS
  - C.7 - MATERIAL BIN WALLS
  - C.8 - MATERIAL BIN WALLS
  - C.9 - RAMP (BY OTHERS)
  - C.10 - FIRE PUMP BUILDING
- D - SHREDDER / SORTING BUILDING
  - D.1 - MILL HOUSE AND AIR FILTRATION BUILDING
  - D.2 - SHREDDER ENCLOSURE
  - D.3 - DOWN STREAM SORTING HOUSE
  - D.4 - TRANSFORMER ENCLOSURE
  - D.5 - PUMP HOUSE
  - D.6 - DEBRIS PILE WALL / ACCESS PASSAGE
  - D.7 - DEBRIS PILE WALL / ACCESS PASSAGE
  - D.8 - CONVEYOR SUPPORT WALL
  - D.9 - CONVEYOR SUPPORT WALL
  - D.10 - MATERIAL BIN WALL AND LOADING RAMP (BY OTHERS)
  - D.11 - RAISED RTO PLATFORM
- E - "NOT USED"
- F - WATER TREATMENT PAD



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 Chicago, IL 60601  
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 knightea.com



PROJECT:  
**GENERAL III, LLC**  
 STRUCTURE A - OFFICE / MAINTENANCE  
 11551 S. AVE. O  
 CHICAGO, IL., 60617

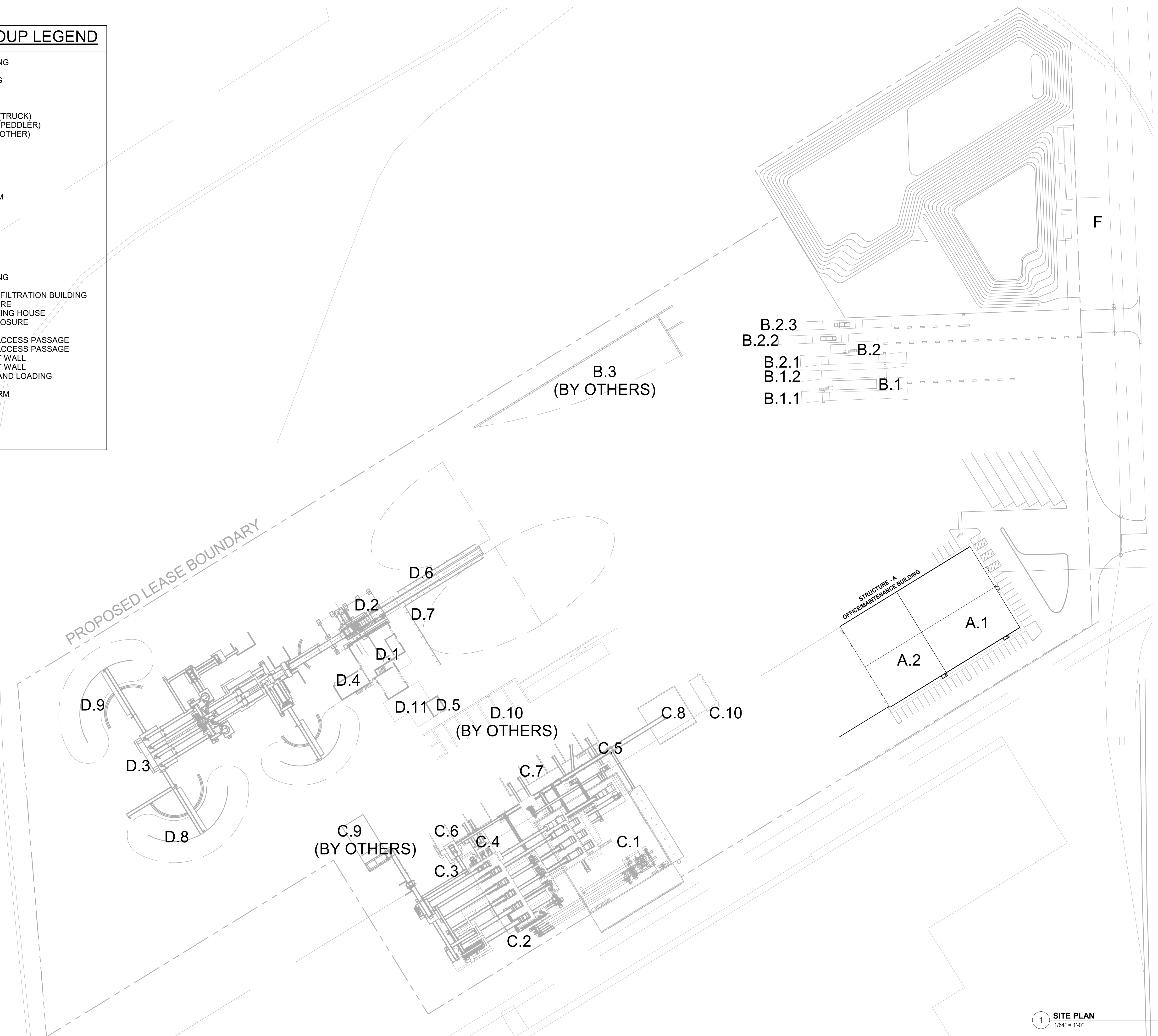
3	06/28/2020	ISSUE FOR PERMIT REVISION
2	04/01/2020	REVISION TO PERMIT
1	07/16/2019	ISSUE FOR PERMIT REVIEW
#	DATE	ISSUE

<b>BUILDING SITE PLAN</b>	
PROJECT #: 7563	DATE: 7/16/2019
<b>G-1.2</b>	

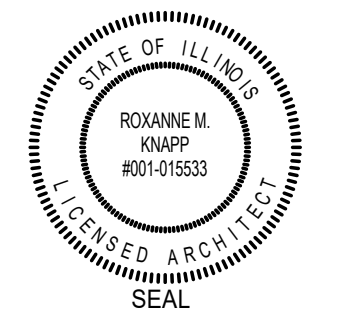
1 SITE PLAN  
 1/64" = 1'-0"

## STRUCTURE GROUP LEGEND

- A - OFFICE / MAINTENANCE BUILDING
  - A.1 - OFFICE BUILDING
  - A.2 - MAINTENANCE BUILDING
- B - SCALE HOUSES
  - B.1 - LARGE SCALE HOUSE (TRUCK)
  - B.2 - SMALL SCALE HOUSE (PEDDLER)
  - B.3 - SCRAP PILE WALL (BY OTHER)
- C - NON-FERROUS BUILDING
  - C.1 - NON-FERROUS / FINES PROCESSING
  - C.2 - ECS PLATFORM
  - C.3 - EQUIPMENT PLATFORM
  - C.4 - SORTING PLATFORM
  - C.5 - SORTING PLATFORM
  - C.6 - MATERIAL BIN WALLS
  - C.7 - MATERIAL BIN WALLS
  - C.8 - MATERIAL BIN WALLS
  - C.9 - RAMP (BY OTHERS)
  - C.10 - FIRE PUMP BUILDING
- D - SHREDDER / SORTING BUILDING
  - D.1 - MILL HOUSE AND AIR FILTRATION BUILDING
  - D.2 - SHREDDER ENCLOSURE
  - D.3 - DOWN STREAM SORTING HOUSE
  - D.4 - TRANSFORMER ENCLOSURE
  - D.5 - PUMP HOUSE
  - D.6 - DEBRIS PILE WALL / ACCESS PASSAGE
  - D.7 - DEBRIS PILE WALL / ACCESS PASSAGE
  - D.8 - CONVEYOR SUPPORT WALL
  - D.9 - CONVEYOR SUPPORT WALL
  - D.10 - MATERIAL BIN WALL AND LOADING RAMP (BY OTHERS)
  - D.11 - RAISED RTO PLATFORM
- E - "NOT USED"
- F - WATER TREATMENT PAD



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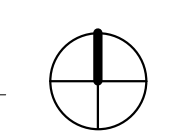


PROJECT:  
**GENERAL III, LLC**  
 STRUCTURE A - OFFICE / MAINTENANCE  
 11551 S. AVE. O  
 CHICAGO, IL., 60617

#	DATE	ISSUE
3	06/28/2020	ISSUE FOR PERMIT REVISION
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<b>BUILDING SITE PLAN</b>	
PROJECT #: 7563	DATE: 7/16/2019
<b>G-1.2</b>	

1 SITE PLAN  
 1/64" = 1'-0"





**SONOC ARCHITECTS & ASSOCIATES**

735 WEST DIVISION STREET  
CHICAGO, ILLINOIS 60610  
312 266-3954  
FAX 266-5968  
SONOC@SONOC.COM  
WWW.SONOC.COM

**GENERAL IRON INDUSTRIES**  
1909 N. CLIFTON AVE.  
CHICAGO, ILLINOIS 60614

DATE	DESCRIPTION
07.14.06	FOR REVIEW
08.29.06	ISSUED FOR PERMIT
10.18.06	ISSUED FOR PERMIT CORRECTIONS

PROJECT  
**GENERAL IRON OFFICE BUILDING**

4550 W. DIVISION ST.  
CHICAGO, ILLINOIS 60651

DESCRIPTION  
**FLOOR PLANS**

DRAWN BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_  
DRAWING NO. \_\_\_\_\_ PROJECT NO. \_\_\_\_\_

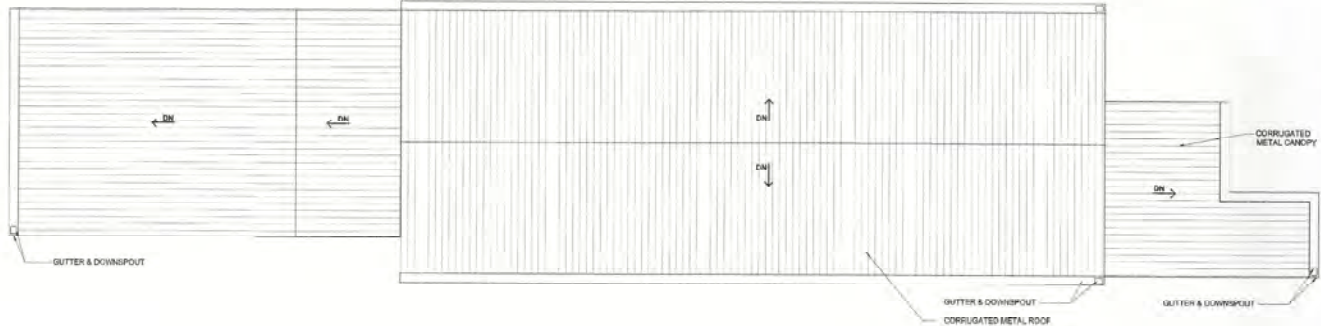
**A1.0**

**FLOOR PLAN NOTES**

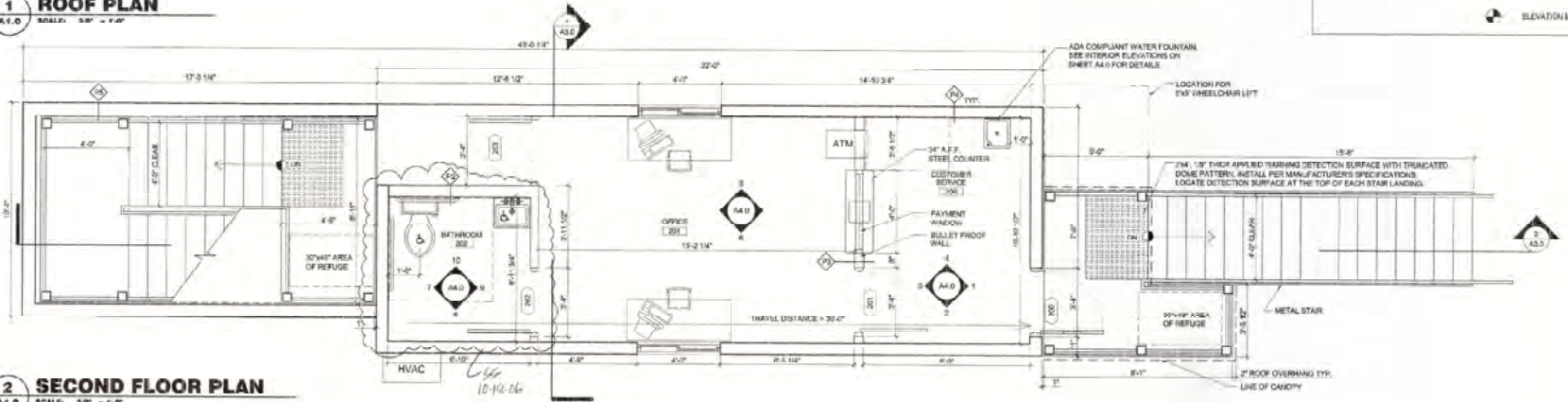
- CONTRACTOR SHALL VERIFY IN THE FIELD ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION AND INSTALLATION OF ALL NEW WORK.
- ALL INTERIOR FINISHES TO BE CLASS 1 OR BETTER.
- ALL INTERIOR PARTITIONS TO BE RATED 1 HOUR OR BETTER.
- ALL INTERIOR PARTITIONS TO BE 2" MIN LINE PER UNLESS OTHERWISE NOTED.

**SYMBOL LEGEND**

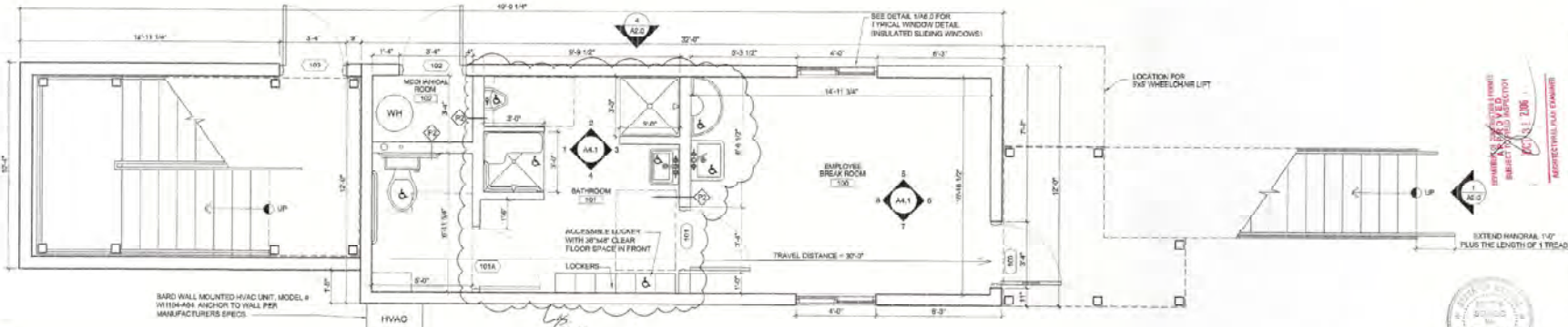
	DETAIL CUT		ELEVATION INDICATION
	SECTION CUT		PARTITION TYPE
	DOOR TYPE		WINDOW TYPE
	REVISION NOTE		ELEVATION MARK



**1 ROOF PLAN**  
SCALE: 3/8" = 1'-0"









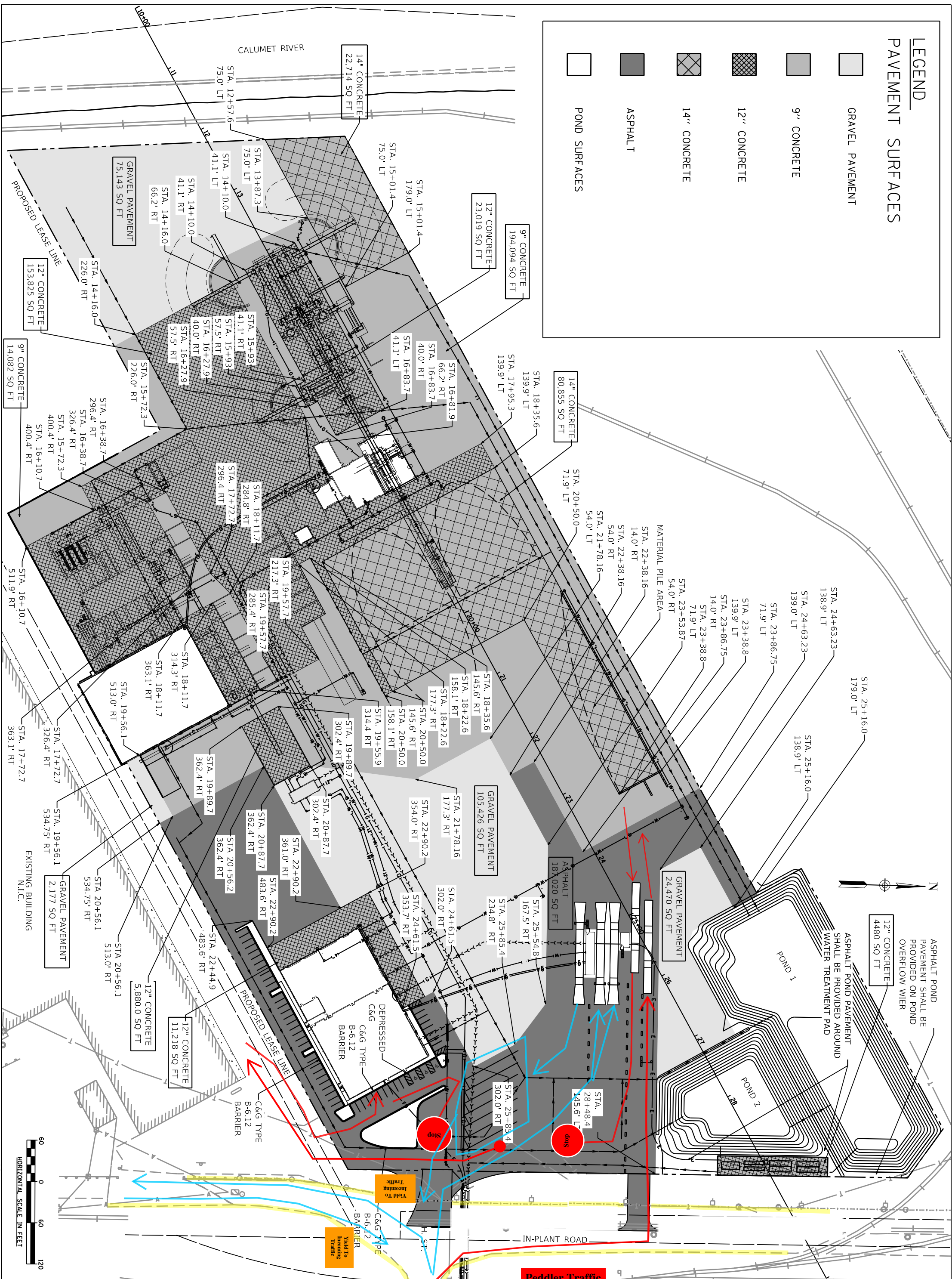
**2 SECOND FLOOR PLAN**  
SCALE: 3/8" = 1'-0"



**3 FIRST FLOOR PLAN**  
SCALE: 3/8" = 1'-0"

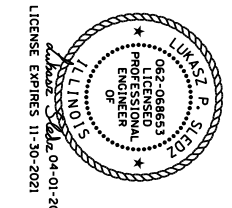
**LEGEND**  
**PAVEMENT SURFACES**

-  GRAVEL PAVEMENT
-  9" CONCRETE
-  12" CONCRETE
-  14" CONCRETE
-  ASPHALT
-  POND SURFACES



**Peddler Traffic**

**Semi Trucks**



**KNIGHT**  
Engineers & Architects

Knight E/A, Inc.  
221 North LaSalle Street  
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Chicago, IL 60601  
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knightea.com

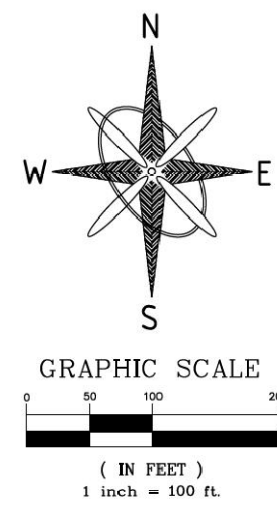
PROJECT:  
**GENERAL III**  
11554 S AVENUE O  
CHICAGO, IL 60617

SITE GEOMETRY  
PAVEMENT PLAN

PROJECT #: 7563  
DATE: 04-01-2020

C-1.5

# ALTA/NSPS LAND TITLE SURVEY



PARCEL 1 (PARCEL 1 IN TITLE COMMITMENT 19000243N04H) P/N: 26-19-102-020-0000  
 THAT PART OF THE WEST 1/2 OF THE NORTHEAST 1/4 AND THE EAST 1/2 OF THE NORTHWEST 1/4 OF SECTION 19, TOWNSHIP 37 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, LYING EAST OF THE EASTERLY CHANNEL LINE OF THE CALUMET RIVER, AS ESTABLISHED BY SURVEY OF THE UNITED STATES ENGINEER'S OFFICE WAR DEPARTMENT (AS SHOWN ON SHEET NO. 6 DATED MARCH 1939 AND SHEET NO. 7 DATED MARCH 1939) TITLED "CONTROL SURVEY CALUMET RIVER", BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 19; THENCE SOUTH 89 DEGREES 38 MINUTES 23 SECONDS WEST ALONG THE NORTH LINE OF SAID SECTION 19 (BASIS OF BEARINGS) 1508.48 FEET, THENCE SOUTH 00 DEGREES 43 MINUTES 42 SECONDS EAST 244.82 FEET ALONG SAID LINE 40 FEET WESTERLY FROM, MEASURED AT RIGHT ANGLES, AND PARALLEL WITH THE WEST RIGHT-OF-WAY LINE OF CONRAIL (FORMERLY THE SOUTH CHICAGO AND SOUTHERN RAILROAD) TO THE POINT OF BEGINNING, THENCE CONTINUING SOUTH 00 DEGREES 43 MINUTES 42 SECONDS EAST 1038.20 FEET ALONG SAID LINE 40 FEET WESTERLY FROM, MEASURED AT RIGHT ANGLES, AND PARALLEL WITH THE PREVIOUSLY MENTIONED WEST RIGHT-OF-WAY LINE OF CONRAIL, THENCE SOUTH 89 DEGREES 38 MINUTES 23 SECONDS WEST 287.71 FEET ALONG THE NORTHERLY LINE OF REPUBLIC ENGINEERED STEELS, INC., THENCE SOUTH 59 DEGREES 48 MINUTES 04 SECONDS WEST 1584.96 FEET ALONG THE NORTHWESTERLY LINE OF REPUBLIC ENGINEERED STEELS, INC., THENCE NORTH 07 DEGREES 51 MINUTES 15 SECONDS WEST 641.95 FEET ALONG SAID EASTERLY CHANNEL LINE OF THE CALUMET RIVER, THENCE NORTH 07 DEGREES 06 MINUTES 41 SECONDS EAST 569.35 FEET ALONG SAID EASTERLY CHANNEL LINE, THENCE NORTH 59 DEGREES 41 MINUTES 01 SECOND EAST 740.33 FEET, THENCE NORTH 13 DEGREES 32 MINUTES 22 SECONDS WEST 124.01 FEET, THENCE NORTH 61 DEGREES 50 MINUTES 14 SECONDS EAST 613.80 FEET, THENCE SOUTH 77 DEGREES 54 SECONDS 07 MINUTES EAST 165.39 FEET, THENCE SOUTH 24 DEGREES 08 MINUTES 50 SECONDS EAST 297.87 FEET, THENCE NORTH 03 DEGREES 56 MINUTES 50 SECONDS EAST 326.13 FEET TO THE POINT OF BEGINNING, CONTAINING 48,778 ACRES, MORE OR LESS, ALL IN COOK COUNTY, ILLINOIS.

PARCEL 2 (PARCEL 2 IN TITLE COMMITMENT 19000243N04H) P/N: 26-19-102-010-0000  
 THAT PART OF THE WEST 1/2 OF THE NORTHEAST 1/4 AND THE EAST 1/2 OF THE NORTHWEST 1/4 OF SECTION 19, TOWNSHIP 37 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, LYING EAST OF THE EASTERLY CHANNEL LINE OF THE CALUMET RIVER, AS ESTABLISHED BY SURVEY OF THE UNITED STATES ENGINEER'S OFFICE WAR DEPARTMENT (AS SHOWN ON SHEET NUMBER 6 DATED MARCH 1939 AND SHEET NUMBER 7 DATED MARCH 1939) TITLED "CONTROL SURVEY CALUMET RIVER BOUNDARY AND DESCRIBED AS FOLLOWS: COMMENCING AT THE INTERSECTION OF THE CENTER LINE OF EAST 111TH STREET (NOW VACATED) AND THE WEST LINE OF SOUTH BURLEY AVENUE, THENCE SOUTH 00 DEGREES 23 MINUTES 08 SECONDS WEST ON THE WEST LINE OF SOUTH BURLEY AVENUE, 1502.00 FEET TO A POINT 31 FEET NORTH OF THE SOUTH LINE OF SECTION 19, THENCE SOUTH 00 DEGREES 23 MINUTES 40 SECONDS WEST, 309.13 FEET TO A MONUMENT, THENCE SOUTH 60 DEGREES 59 MINUTES 26 SECONDS WEST, A DISTANCE OF 133.70 FEET TO A POINT, SAID POINT BEING ON THE WEST RIGHT OF WAY LINE OF SAID SOUTHERN RAILROAD, THENCE SOUTH 00 DEGREES 23 MINUTES 40 SECONDS EAST ON THE WEST LINE OF SAID RAILROAD, 17.23 FEET TO THE POINT OF BEGINNING, THENCE SOUTH 60 DEGREES 55 MINUTES 26 SECONDS WEST, 1743.09 FEET, THENCE SOUTH 85 DEGREES 03 MINUTES 18 SECONDS WEST, 173.49 FEET TO A POINT ON THE EASTERLY CHANNEL LINE OF THE CALUMET RIVER, ESTABLISHED AS APPROXIMATE, THENCE NORTH 08 DEGREES 43 MINUTES 53 SECONDS WEST, 139.50 FEET, THENCE NORTH 60 DEGREES 55 MINUTES 26 SECONDS EAST, 1584.96 FEET TO A POINT ON A LINE 1283.00 FEET SOUTH OF AND PARALLEL TO THE NORTH LINE OF THE NORTHEAST 1/4 OF SECTION 19, THENCE SOUTH 89 DEGREES 14 MINUTES 10 SECONDS EAST ON THE LAST DESCRIBED LINE 327.70 FEET TO A POINT ON THE WEST RIGHT OF WAY LINE OF SAID RAILROAD, THENCE SOUTH 00 DEGREES 23 MINUTES 40 SECONDS WEST ON THE WEST LINE OF SAID RAILROAD 42.44 FEET TO THE POINT OF BEGINNING IN COOK COUNTY, ILLINOIS.

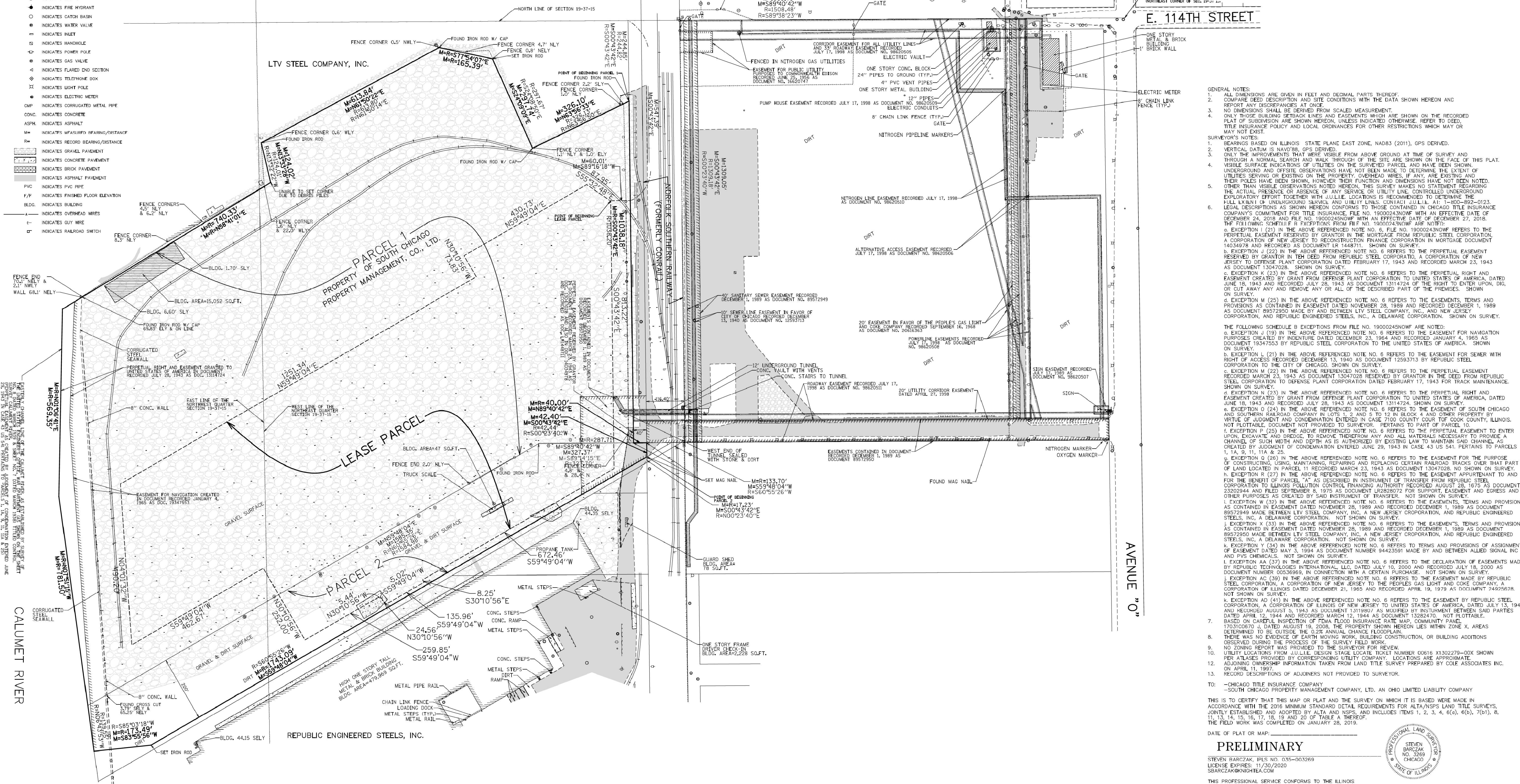
CONTAINING AN APPROXIMATE AREA OF 351,862 SQ.FT. OR 8.08 ACRES, MORE OR LESS.

LEASE PARCEL:  
 THAT PART OF THE WEST 1/2 OF THE NORTHEAST 1/4 AND THE EAST 1/2 OF THE NORTHWEST 1/4 OF SECTION 19, TOWNSHIP 37 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, LYING EAST OF THE EASTERLY CHANNEL LINE OF THE CALUMET RIVER, AS ESTABLISHED BY SURVEY OF THE UNITED STATES ENGINEER'S OFFICE WAR DEPARTMENT (AS SHOWN ON SHEET NO. 6 DATED MARCH 1939 AND SHEET NO. 7 DATED MARCH 1939) TITLED "CONTROL SURVEY CALUMET RIVER", BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 19, THENCE SOUTH 89 DEGREES 40 MINUTES 42 SECONDS WEST (SOUTH 89 DEGREES 38 MINUTES 23 SECONDS WEST RECORD) ALONG THE NORTH LINE OF SAID SECTION 19 (BASIS OF BEARINGS) 1508.78 FEET (1508.48 FEET RECORD); THENCE SOUTH 00 DEGREES 43 MINUTES 42 SECONDS EAST, MEASURED AND RECORDED 547.39 FEET ALONG A LINE 40 FEET WESTERLY FROM, MEASURED AT RIGHT ANGLES, AND PARALLEL WITH THE WEST RIGHT-OF-WAY LINE OF CONRAIL (FORMERLY THE SOUTH CHICAGO AND SOUTHERN RAILROAD); THENCE SOUTH 89 DEGREES 15 MINUTES 18 SECONDS WEST MEASURED AT RIGHT ANGLES TO THE LAST DESCRIBED COURSE, 60.01 FEET TO THE POINT OF BEGINNING, THENCE SOUTH 00 DEGREES 43 MINUTES 42 SECONDS EAST, 813.22 FEET, THENCE SOUTH 59 DEGREES 48 MINUTES 04 SECONDS WEST, 672.46 FEET, THENCE SOUTH 30 DEGREES 10 MINUTES 56 SECONDS EAST, 8.25 FEET, THENCE SOUTH 59 DEGREES 48 MINUTES 04 SECONDS WEST, 135.96 FEET, THENCE NORTH 30 DEGREES 10 MINUTES 56 SECONDS WEST, 24.56 FEET, THENCE SOUTH 59 DEGREES 48 MINUTES 04 SECONDS WEST, 5.02 FEET, THENCE NORTH 30 DEGREES 10 MINUTES 56 SECONDS WEST, 5.44 FEET, THENCE SOUTH 59 DEGREES 48 MINUTES 04 SECONDS WEST, 250.85 FEET, THENCE NORTH 30 DEGREES 10 MINUTES 56 SECONDS WEST, 252.00 FEET, THENCE SOUTH 59 DEGREES 48 MINUTES 04 SECONDS WEST, 462.67 FEET, THENCE NORTH 04 DEGREES 01 MINUTES 32 SECONDS WEST, 400.20 FEET, THENCE NORTH 59 DEGREES 48 MINUTES 04 SECONDS EAST, 1251.34 FEET, THENCE NORTH 30 DEGREES 10 MINUTES 56 SECONDS WEST, 73.83 FEET, THENCE NORTH 59 DEGREES 48 MINUTES 04 SECONDS EAST, 430.73 FEET, THENCE SOUTH 55 DEGREES 32 MINUTES 48 SECONDS EAST, 87.95 FEET TO THE POINT OF BEGINNING, ALL IN COOK COUNTY, ILLINOIS.

CONTAINING AN APPROXIMATE AREA OF 1,094,398.95 SQ.FT. OR 25,124 ACRES, MORE OR LESS.



- LEGEND**
- INDICATES MANHOLE
  - INDICATES FIRE HYDRANT
  - INDICATES CATCH BASIN
  - INDICATES WATER VALVE
  - INDICATES INLET
  - INDICATES HANDHOLE
  - INDICATES POWER POLE
  - INDICATES GAS VALVE
  - INDICATES PLANNED DIO SECTION
  - INDICATES TELEPHONE BOX
  - INDICATES LIGHT POLE
  - INDICATES ELECTRIC METER
  - INDICATES CORRUGATED METAL PIPE
  - INDICATES ASPHALT
  - INDICATES UNFINISHED FINISHING/PAINTING
  - INDICATES RECORD BEARING/DISTANCE
  - INDICATES GRAVEL PAVEMENT
  - INDICATES CONCRETE PAVEMENT
  - INDICATES BRICK PAVEMENT
  - INDICATES ASPHALT PAVEMENT
  - INDICATES PVC PIPE
  - INDICATES FINISHED FLOOR ELEVATION
  - INDICATES BUILDING
  - INDICATES OVERHEAD WIRES
  - INDICATES GUY WIRE
  - INDICATES RAILROAD SWITCH



- GENERAL NOTES:**
- ALL DIMENSIONS ARE GIVEN IN FEET AND DECIMAL PARTS THEREOF.
  - COMPARE DEED DESCRIPTION AND SITE CONDITIONS WITH THE DATA SHOWN HEREON AND REPORT ANY DISCREPANCIES.
  - NO DIMENSIONS SHALL BE DERIVED FROM SCALED MEASUREMENT.
  - ONE OR MORE EASEMENTS AND ENCUMBRANCES WHICH ARE SHOWN ON THE RECORDED PLAT OF SUBDIVISION ARE SHOWN HEREON, UNLESS INDICATED OTHERWISE, REFER TO DEED, TITLE INSURANCE POLICY AND LOCAL ORDINANCES FOR OTHER RESTRICTIONS WHICH MAY OR MAY NOT EXIST.
- SURVEYOR'S NOTES:**
- BEARINGS BASED ON ILLINOIS STATE PLAIN EAST ZONE, NAD83 (2011), GPS DERIVED.
  - VERTICAL DATUM IS NAVD83, GPS DERIVED.
  - ONLY THE IMPROVEMENTS THAT WERE VISIBLE FROM ABOVE GROUND AT TIME OF SURVEY AND THROUGH A NORMAL SEARCH AND WALK THROUGH OF THE SITE ARE SHOWN ON THE FACE OF THIS PLAT.
  - VISIBLE SURFACE INDICATIONS OF UTILITIES ON THE SURVEYED PARCEL AND HAVE BEEN SHOWN. UNDERGROUND AND OPTIC FIBER CABLES HAVE NOT BEEN DETECTED. THE EXTENT OF UTILITIES SERVING OR EXISTING ON THE PROPERTY, OVERHEAD WIRES, IF ANY, ARE EXISTING AND THEIR POLES HAVE BEEN SHOWN, HOWEVER, THEIR FUNCTION AND DIMENSIONS HAVE NOT BEEN NOTED. OTHER THAN VISIBLE OBSERVATIONS NOTED HEREON, THIS SURVEY MAKES NO STATEMENT REGARDING THE ACTUAL PRESENCE OR ABSENCE OF ANY SERVICE OR UTILITY LINE, CONTROLLED UNDERGROUND EXPLORATORY EFFORT TOGETHER WITH LULLIE, LOCATIONS IS RECOMMENDED TO DETERMINE THE FULL EXTENT OF UNDERGROUND SERVICE AND UTILITY LINES. CONTACT JULLIE AT: 1-800-892-1123.
  - LEGAL DESCRIPTIONS AS SHOWN HEREON CONFORMS TO THOSE CONTAINED IN CHICAGO TITLE INSURANCE COMPANY'S COMMITMENT FOR TITLE INSURANCE, FILE NO. 19000243N04H WITH AN EFFECTIVE DATE OF DECEMBER 24, 2018 AND FILE NO. 19000243N04H WITH AN EFFECTIVE DATE OF DECEMBER 27, 2018. THE FOLLOWING SCHEDULE B EXCEPTIONS FROM FILE NO. 19000243N04H ARE NOTED:
  - EXCEPTION (21) IN THE ABOVE REFERENCED NOTE NO. 6, FILE NO. 19000243N04H REFERS TO THE PERPETUAL EASEMENT RESERVED BY GRANTOR IN THE MORTGAGE FROM REPUBLIC STEEL CORPORATION, A CORPORATION OF NEW JERSEY TO RECONSTRUCTION FINANCE CORPORATION IN MORTGAGE DOCUMENT 14038478 AND RECORDED AS DOCUMENT 18-148871 SHOWN ON SURVEY.
  - EXCEPTION J (22) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE PERPETUAL EASEMENT RESERVED BY GRANTOR IN THE DEED FROM REPUBLIC STEEL CORPORATION, A CORPORATION OF NEW JERSEY TO DEFENSE PLANT CORPORATION DATED FEBRUARY 17, 1943 AND RECORDED MARCH 23, 1943 AS DOCUMENT 13047028 SHOWN ON SURVEY.
  - EXCEPTION K (23) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE PERPETUAL RIGHT AND EASEMENT CREATED BY GRANT FROM DEFENSE PLANT CORPORATION TO UNITED STATES OF AMERICA, DATED JUNE 18, 1943 AND RECORDED MARCH 23, 1943 AS DOCUMENT 13147274 OF THE RIGHT OF WATER UPON, DR. OR CUT AWAY ANY AND REMOVE ANY OR ALL OF THE DESCRIBED PART OF THE PREMISES, SHOWN ON SURVEY.
  - EXCEPTION M (25) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE EASEMENTS, TERMS AND PROVISIONS AS CONTAINED IN EASEMENT DATED NOVEMBER 28, 1989 AND RECORDED DECEMBER 1, 1989 AS DOCUMENT 89572949 MADE BETWEEN LTV STEEL COMPANY, INC. A NEW JERSEY CORPORATION, AND REPUBLIC ENGINEERED STEELS, INC., A DELAWARE CORPORATION, NOT SHOWN ON SURVEY.
  - EXCEPTION N (26) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE EASEMENT FOR SEWER WITH RIGHT OF ACCESS RECORDED DECEMBER 13, 1940 AS DOCUMENT 1293713 BY REPUBLIC STEEL CORPORATION TO THE CITY OF CHICAGO, SHOWN ON SURVEY.
  - EXCEPTION O (27) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE PERPETUAL EASEMENT RECORDED MARCH 23, 1943 AS DOCUMENT 13047028 RECEIVED BY GRANTOR IN THE DEED FROM REPUBLIC STEEL CORPORATION TO DEFENSE PLANT CORPORATION DATED FEBRUARY 17, 1943 FOR TRACK MAINTENANCE, SHOWN ON SURVEY.
  - EXCEPTION P (28) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE PERPETUAL RIGHT AND EASEMENT CREATED BY GRANT FROM DEFENSE PLANT CORPORATION TO UNITED STATES OF AMERICA, DATED JUNE 18, 1943 AND RECORDED JULY 28, 1943 AS DOCUMENT 13147274, SHOWN ON SURVEY.
  - EXCEPTION Q (24) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE EASEMENT OF SOUTH CHICAGO AND SOUTHERN RAILROAD IN LOTS 1, 2, AND 5 TO 13 IN BLOCK 4 AND OTHER PROPERTY BY VIRTUE OF JUDGMENT AND CONDEMNATION ENTERED IN CASE 2700 COUNTY COURT COOK COUNTY, ILLINOIS, NOT PLOTTABLE, DOCUMENT NOT PROVIDED TO SURVEYOR, PERTAINS TO PART OF PARCEL.
  - EXCEPTION R (25) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE PERPETUAL EASEMENT TO ENTER UPON, EXCAVATE AND REMOVE THEREFROM ANY AND ALL MATERIALS NECESSARY TO PROVIDE A CHANNEL OF SUCH WIDTH AND DEPTH AS IS AUTHORIZED BY EXISTING LAW TO MAINTAIN SAID CHANNEL, AS CREATED BY JUDGMENT OF CONDEMNATION ENTERED JUNE 29, 1943 IN CASE 43 US 541, PERTAINS TO PARCELS 1A, 2A, 3A, 11A, & 22.
  - EXCEPTION S (26) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE EASEMENT FOR THE PURPOSE OF CONSTRUCTING, MAINTAINING, REPAIRING AND REPLACING RAILROAD TRACKS OVER THAT PART OF LAND LOCATED IN PARCEL 11 RECORDED MARCH 23, 1943 AS DOCUMENT 13047028, NOT SHOWN ON SURVEY.
  - EXCEPTION T (27) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE EASEMENT APPROPRIATE TO AND FOR THE BENEFIT OF PARCEL "A" AS DESCRIBED IN INSTRUMENT OF TRANSFER FROM REPUBLIC STEEL CORPORATION TO ILLINOIS POLLUTION CONTROL FINANCING AUTHORITY RECORDED AUGUST 26, 1975 AS DOCUMENT 2302044 AND FILED SEPTEMBER 18, 1975 AS DOCUMENT 48262072 FOR SUPPORT, EASEMENTS AND EGRESS; AND OTHER PURPOSES AS CREATED BY SAID INSTRUMENT OF TRANSFER, NOT SHOWN ON SURVEY.
  - EXCEPTION U (32) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE EASEMENTS, TERMS AND PROVISIONS AS CONTAINED IN EASEMENT DATED NOVEMBER 28, 1989 AND RECORDED DECEMBER 1, 1989 AS DOCUMENT 89572949 MADE BETWEEN LTV STEEL COMPANY, INC. A NEW JERSEY CORPORATION, AND REPUBLIC ENGINEERED STEELS, INC., A DELAWARE CORPORATION, NOT SHOWN ON SURVEY.
  - EXCEPTION V (34) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO TERMS AND PROVISIONS OF ASSIGNMENT OF EASEMENT DATED MAY 3, 1994 AS DOCUMENT NUMBER 94423591 MADE BY AND BETWEEN ALLIED SIGNAL INC AND PVS CHEMICALS, NOT SHOWN ON SURVEY.
  - EXCEPTION W (37) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE DECLARATION OF EASEMENTS MADE BY REPUBLIC TECHNOLOGIES INTERNATIONAL, LLC, DATED JULY 10, 2000 AND RECORDED JULY 18, 2000 AS DOCUMENT NUMBER 02358989, IN CONNECTION WITH A CERTAIN PURCHASE, NOT SHOWN ON SURVEY.
  - EXCEPTION X (38) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE EASEMENT MADE BY REPUBLIC STEEL CORPORATION, A CORPORATION OF NEW JERSEY TO THE PEOPLES GAS LIGHT AND COKE COMPANY, A CORPORATION OF ILLINOIS DATED DECEMBER 21, 1965 AND RECORDED APRIL 19, 1979 AS DOCUMENT 24925629, NOT SHOWN ON SURVEY.
  - EXCEPTION Y (41) IN THE ABOVE REFERENCED NOTE NO. 6 REFERS TO THE EASEMENT BY REPUBLIC STEEL CORPORATION, A CORPORATION OF ILLINOIS OF NEW JERSEY TO UNITED STATES OF AMERICA DATED JULY 13, 1943 AND RECORDED AUGUST 2, 1943 AS DOCUMENT 13119807 AS MORTGAGED BY INSTRUMENT BETWEEN SAID PARTIES DATED APRIL 12, 1944 AND RECORDED MARCH 12, 1944 AS DOCUMENT 15282470, NOT PLOTTABLE.
  - BASED ON CAREFUL INSPECTION OF FEMA FLOOD INSURANCE RATE MAP, COMMUNITY PANEL 1703102670 J, DATED AUGUST 18, 2008, THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN.
  - THERE WAS NO EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADJUSTMENTS OBSERVED DURING THE COURSE OF THE SURVEY FIELD WORK.
  - NO ZONING REPORT WAS PROVIDED TO THE SURVEYOR FOR REVIEW.
  - UTILITY LOCATIONS FROM LULLIE, REGION NUMBER 00616 X1302729-000 SHOWN PER ATLAS PROVIDED BY CORRESPONDING UTILITY COMPANY. LOCATIONS ARE APPROXIMATE.
  - ADJOINING OWNERSHIP INFORMATION TAKEN FROM LAND TITLE SURVEY PREPARED BY COLE ASSOCIATES INC. ON APRIL 11, 1997.
  - RECORD DESCRIPTIONS OF ADJOINERS NOT PROVIDED TO SURVEYOR.
  - CHICAGO TITLE INSURANCE COMPANY
  - SOUTH CHICAGO PROPERTY MANAGEMENT COMPANY, LTD. AN OHIO LIMITED LIABILITY COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2016 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 6(c), 6(d), 7(b), 8, 11, 13, 14, 15, 16, 17, 18 AND 20 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JANUARY 28, 2019.

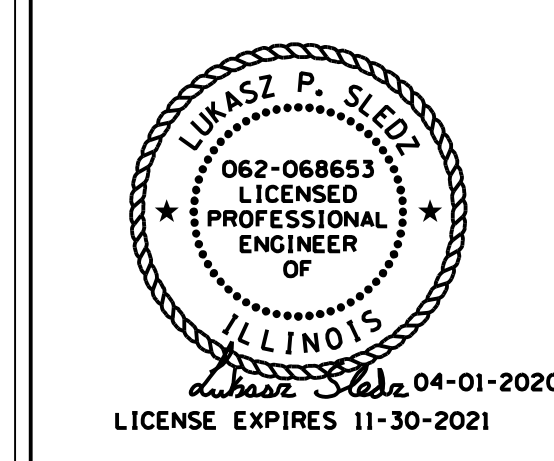
DATE OF PLAT OR MAP: \_\_\_\_\_

**PRELIMINARY**

STEVEN BARCZAK, PLS NO. 035-003268  
 LICENSE EXPIRES: 11/30/2020  
 SBARCZAK@KNIGHTEA.COM

THIS PROFESSIONAL SERVICE CONFORMS TO THE ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

**KNIGHT**  
 Engineers & Architects  
 Knight E/A, Inc.  
 221 North LaSalle Street  
 Suite 300  
 Chicago, IL 60601  
 Phone: (312) 577-3300  
 knightea.com



PROJECT: **GENERAL III**  
 11554 S AVENUE O  
 CHICAGO, IL 60617

2 4-1-2020 ISSUE FOR REVISION TO PERMIT  
 1 01-10-2020 ISSUE FOR BID

TOPOGRAPHIC AND UTILITY SURVEY

PROJECT #: 7563 DATE: 04-00-2020

C-0.2

**KNIGHT**  
 Engineers & Architects  
 Knight E/A, Inc.  
 221 N. LaSalle Street, Suite 300  
 Chicago, Illinois 60601-1211  
 Phone (312) 577-3300  
 Fax (312) 577-3526  
 knightea.com

**11554 S. AVENUE O**  
 PREPARED FOR:  
**GENERAL III, LLC**  
 11600 S. BURLEY AVENUE  
 CHICAGO, IL 60617

Drawn By: JV Designed By: SB Scale: 1"=100'  
**ALTA/NSPS LAND TITLE SURVEY**  
 REVISIONS

# ALTA/NSPS LAND TITLE SURVEY

PARCEL 1: (PARCEL 1 IN TITLE COMMITMENT 19000245NOWF) PIN: 26-19-102-020-0000  
 THAT PART OF THE WEST 1/2 OF THE NORTHEAST 1/4 AND THE EAST 1/2 OF THE NORTHWEST 1/4 OF SECTION 10, TOWNSHIP 37 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, LYING EAST OF THE EASTERLY CHANNEL LINE OF THE CALUMET RIVER, AS ESTABLISHED BY SURVEY OF THE UNITED STATES ENGINEER'S OFFICE, WAR DEPARTMENT (AS SHOWN ON SHEET NO. 6 DATED MARCH 1939 AND SHEET NO. 7 DATED MARCH 1938), TITLED "CONTROL SURVEY CALUMET RIVER", BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 19; THENCE SOUTH 89 DEGREES 38 MINUTES 23 SECONDS WEST ALONG THE NORTH LINE OF SAID SECTION 19 (BASIS OF BEARINGS) 1508.48 FEET; THENCE SOUTH 00 DEGREES 43 MINUTE 40 SECONDS EAST 244.92 FEET ALONG A LINE 40 FEET WESTERLY FROM, MEASURED AT RIGHT ANGLES, AND PARALLEL WITH THE WEST RIGHT-OF-WAY LINE OF CONRAL (FORMERLY THE SOUTH CHICAGO AND SOUTHERN RAILROAD) TO THE POINT OF BEGINNING; THENCE CONTINUING SOUTH 60 DEGREES 43 MINUTES 42 SECONDS EAST 1038.20 FEET ALONG SAID LINE 40 FEET WESTERLY FROM, MEASURED AT RIGHT ANGLES, AND PARALLEL WITH THE PREVIOUSLY MENTIONED WEST RIGHT-OF-WAY LINE OF CONRAL; THENCE SOUTH 89 DEGREES 38 MINUTES 23 SECONDS WEST 287.71 FEET ALONG THE NORTHERLY LINE OF REPUBLIC ENGINEERED STEELS, INC.; THENCE SOUTH 59 DEGREES 48 MINUTES 04 SECONDS WEST 1584.98 FEET ALONG THE NORTHWESTERLY LINE OF REPUBLIC ENGINEERED STEELS, INC.; THENCE NORTH 07 DEGREES 51 MINUTES 15 SECONDS WEST 641.95 FEET ALONG THE EASTERLY CHANNEL LINE OF THE CALUMET RIVER; THENCE NORTH 01 DEGREE 08 MINUTES 41 SECONDS EAST 500.35 FEET ALONG SAID EASTERLY CHANNEL LINE; THENCE NORTH 58 DEGREES 41 MINUTES 01 SECOND EAST 740.33 FEET; THENCE NORTH 13 DEGREES 32 MINUTES 22 SECONDS WEST 124.01 FEET; THENCE NORTH 61 DEGREES 50 MINUTES 14 SECONDS EAST 613.80 FEET; THENCE SOUTH 77 DEGREES 54 SECONDS 07 MINUTES EAST 165.39 FEET; THENCE SOUTH 24 DEGREES 08 MINUTES 50 SECONDS EAST 297.67 FEET; THENCE NORTH 63 DEGREES 56 MINUTES 50 SECONDS EAST 326.13 FEET TO THE POINT OF BEGINNING, CONTAINING 48.778 ACRES, MORE OR LESS, ALL IN COOK COUNTY, ILLINOIS, CONTAINING AN APPROXIMATE AREA OF 2,124,752 SQ.FT. OR 48.778 ACRES, MORE OR LESS.

PARCEL 2: (PARCEL 1 IN TITLE COMMITMENT 19000245NOWF) PIN: 26-19-102-016-0000  
 THAT PART OF THE WEST 1/2 OF THE NORTHEAST 1/4 AND THE EAST 1/2 OF THE NORTHWEST 1/4 OF SECTION 10, TOWNSHIP 37 NORTH, RANGE 15 EAST OF THE THIRD PRINCIPAL MERIDIAN, LYING EAST OF THE EASTERLY CHANNEL LINE OF THE CALUMET RIVER, AS ESTABLISHED BY SURVEY OF THE UNITED STATES ENGINEER'S OFFICE, WAR DEPARTMENT (AS SHOWN ON SHEET NUMBER 6 DATED MARCH 1939 AND SHEET NUMBER 7 DATED MARCH 1938), TITLED "CONTROL SURVEY CALUMET RIVER BOUNDED AND DESCRIBED AS FOLLOWS: COMMENCING AT THE INTERSECTION OF THE CENTER LINE OF EAST 11TH STREET (NOW VACATED) AND THE WEST LINE OF SOUTH BURLEY AVENUE; THENCE SOUTH 00 DEGREES 23 MINUTES 09 SECONDS WEST ON THE WEST LINE OF SOUTH BURLEY AVENUE, 1952.09 FEET TO A POINT 33 FEET NORTH OF THE SOUTH LINE OF SECTION 18; THENCE SOUTH 00 DEGREES 23 MINUTES 40 SECONDS WEST, 1309.13 FEET TO A MONUMENT; THENCE SOUTH 60 DEGREES 55 MINUTES 26 SECONDS WEST, A DISTANCE OF 133.70 FEET TO A POINT; SAID POINT BEING ON THE WEST RIGHT OF WAY LINE OF THE 116.40 FOOT WIDE RIGHT OF WAY OF THE SOUTH CHICAGO AND SOUTHERN RAILROAD; THENCE NORTH 00 DEGREES 23 MINUTES 40 SECONDS EAST ON THE WEST LINE OF SAID RAILROAD, 17.23 FEET TO THE POINT OF BEGINNING; THENCE SOUTH 60 DEGREES 55 MINUTES 26 SECONDS WEST, 1743.09 FEET; THENCE SOUTH 85 DEGREES 03 MINUTES 18 SECONDS WEST, 173.49 FEET TO A POINT ON THE EASTERLY CHANNEL LINE OF THE CALUMET RIVER, ESTABLISHED AS AFORESAID; THENCE NORTH 6 DEGREES 43 MINUTES 43 SECONDS WEST, 139.55 FEET; THENCE NORTH 60 DEGREES 55 MINUTES 26 SECONDS EAST, 1584.98 FEET TO A POINT ON A LINE 1283.00 FEET SOUTH OF AND PARALLEL TO THE NORTH LINE OF THE NORTHEAST 1/4 OF SECTION 19; THENCE SOUTH 89 DEGREES 14 MINUTES 15 SECONDS EAST ON THE LAST DESCRIBED LINE 327.70 FEET TO A POINT ON THE WEST RIGHT OF WAY LINE OF SAID RAILROAD; THENCE SOUTH 00 DEGREES 23 MINUTES 40 SECONDS WEST ON THE WEST LINE OF SAID RAILROAD 42.44 FEET TO THE POINT OF BEGINNING IN COOK COUNTY, ILLINOIS, CONTAINING AN APPROXIMATE AREA OF 351,882 SQ.FT. OR 8.08 ACRES, MORE OR LESS.

- LEGEND
- INDICATES MANHOLE
  - ◆ INDICATES FIRE HYDRANT
  - INDICATES CATCH BASIN
  - ◊ INDICATES WATER VALVE
  - ⊕ INDICATES INLET
  - ⊖ INDICATES MANHOLE
  - ⊗ INDICATES POWER POLE
  - ⊘ INDICATES GAS VALVE
  - ⊙ INDICATES FLARED END SECTION
  - ⊚ INDICATES TELEPHONE BOX
  - ⊛ INDICATES LIGHT POLE
  - ⊜ INDICATES ELECTRIC MILK
  - ⊝ INDICATES CORRUGATED METAL PIPE
  - ⊞ INDICATES CONCRETE
  - ⊟ INDICATES ASPHALT
  - M= INDICATES MEASURED BEARING/DISTANCE
  - R= INDICATES RECORD BEARING/DISTANCE
  - ▨ INDICATES GRAVEL PAVEMENT
  - ▩ INDICATES CONCRETE PAVEMENT
  - INDICATES BRICK PAVEMENT
  - INDICATES ASPHALT PAVEMENT
  - PVC INDICATES PVC PIPE
  - F/F INDICATES FINISHED FLOOR ELEVATION
  - BLDG. INDICATES BUILDING
  - INDICATES OVERHEAD WIRES
  - INDICATES GUY WIRE
  - ⊥ INDICATES RAILROAD SWITCH



SITE LOCATION DETAIL  
N.T.S.

- GENERAL NOTES:
- ALL DIMENSIONS ARE GIVEN IN FEET AND DECIMAL PARTS THEREOF.
  - COMPARE DEED DESCRIPTION AND SITE CONDITIONS WITH THE DATA SHOWN HEREON AND REPORT ANY DISCREPANCIES AT ONCE.
  - NO DIMENSIONS SHALL BE DERIVED FROM SCALED MEASUREMENT.
  - ONLY THOSE BUILDING SETBACK LINES AND EASEMENTS WHICH ARE SHOWN ON THE RECORDED PLAT OF SURVEY HEREON ARE SHOWN HEREON, UNLESS INDICATED OTHERWISE REFER TO DEED, TITLE INSURANCE POLICY AND LOCAL ORDINANCES FOR OTHER RESTRICTIONS WHICH MAY OR MAY NOT EXIST.

SURVEYOR'S NOTES:

- BEARINGS BASED ON ILLINOIS STATE PLANE EAST ZONE, NAD83 (2011), GPS DERIVED.
- VERTICAL DATUM IS NAVD83, GPS DERIVED.
- ONLY THE IMPROVEMENTS THAT WERE VISIBLE FROM ABOVE GROUND AT TIME OF SURVEY AND THROUGH A NORMAL SEARCH AND WALK THROUGH OF THE SITE ARE SHOWN ON THE FACE OF THIS PLAT. VISIBLE SURFACE INDICATIONS OF UTILITIES ON THE SURVEYED PARCEL AND HAVE BEEN SHOWN. UNDERGROUND AND OFFSITE OBSERVATIONS HAVE NOT BEEN MADE TO DETERMINE THE EXTENT OF UTILITIES SERVING OR EXISTING ON THIS PROPERTY, OVERHEAD WIRES, IF ANY, ARE EXISTING AND THEIR POLES HAVE BEEN SHOWN, HOWEVER THEIR FUNCTION AND DIMENSIONS HAVE NOT BEEN NOTED.
- OTHER THAN VISIBLE OBSERVATIONS SHOWN HEREON, THIS SURVEY MAKES NO STATEMENT REGARDING THE ACTUAL PRESENCE OR ABSENCE OF ANY SERVICE OR UTILITY LINE, CONTROLLED UNDERGROUND EXPLORATORY TRENCH TOGETHER WITH JULLIE, THIS SURVEY IS RECOMMENDED TO DETERMINE THE FULL EXTENT OF UNDERGROUND SERVICE AND UTILITY LINES. CONTACT JULLIE, AT: 1-800-892-0123.
- LEGAL DESCRIPTIONS AS SHOWN HEREON CONFORMS TO THOSE CONTAINED IN CHICAGO TITLE INSURANCE COMPANY'S COMMITMENT FOR TITLE INSURANCE, FILE NO. 19000245NOWF WITH AN EFFECTIVE DATE OF DECEMBER 24, 2018 AND FILE NO. 19000245NOWF WITH AN EFFECTIVE DATE OF DECEMBER 27, 2018. THE FOLLOWING SCHEDULE B EXCEPTIONS FROM FILE NO. 19000245NOWF ARE NOTED:
  - a. EXCEPTION I (21) IN THE ABOVE REFERENCED NOTE NO. 6, FILE NO. 19000245NOWF REFERS TO THE PERPETUAL EASEMENT RESERVED BY GRANTOR IN THE MORTGAGE FROM REPUBLIC STEEL CORPORATION, A CORPORATION OF NEW JERSEY TO RECONSTRUCTION FINANCE CORPORATION IN MORTGAGE DOCUMENT 14034978 AND RECORDED AS DOCUMENT LR 1448711, SHOWN ON SURVEY.
  - b. EXCEPTION J (22) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE PERPETUAL EASEMENT RESERVED BY GRANTOR IN THE DEED FROM REPUBLIC STEEL CORPORATION, A CORPORATION OF NEW JERSEY TO DEFENSE PLANT CORPORATION DATED FEBRUARY 17, 1943 AND RECORDED MARCH 23, 1943 AS DOCUMENT 13047028, SHOWN ON SURVEY.
  - c. EXCEPTION K (23) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE PERPETUAL RIGHT AND EASEMENT CREATED BY GRANT FROM DEFENSE PLANT CORPORATION TO UNITED STATES OF AMERICA, DATED JUNE 18, 1943 AND RECORDED JULY 28, 1943 AS DOCUMENT 13114724 OF THE RIGHT TO ENTER UPON, DIG. OR CUT AWAY ANY AND REMOVE ANY OR ALL OF THE DESCRIBED PART OF THE PREMISES, SHOWN ON SURVEY.
  - d. EXCEPTION M (25) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE EASEMENTS, TERMS AND PROVISIONS AS CONTAINED IN EASEMENT DATED NOVEMBER 28, 1989 AND RECORDED DECEMBER 1, 1989 AS DOCUMENT 89572895 MADE BY AND BETWEEN LTV STEEL COMPANY, INC. AND NEW JERSEY CORPORATION, AND REPUBLIC ENGINEERED STEELS, INC., A DELAWARE CORPORATION, NOT SHOWN ON SURVEY.

THE FOLLOWING SCHEDULE B EXCEPTIONS FROM FILE NO. 19000245NOWF ARE NOTED:

- EXCEPTION J (19) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE EASEMENT FOR NAVIGATION PURPOSES CREATED BY INSTRUMENT DATED DECEMBER 23, 1984 AND RECORDED JANUARY 4, 1985 AS DOCUMENT 19347553 BY REPUBLIC STEEL CORPORATION TO THE UNITED STATES OF AMERICA, SHOWN ON SURVEY.
- EXCEPTION L (21) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE EASEMENT FOR SEWER WITH RIGHT OF ACCESS RECORDED DECEMBER 13, 1940 AS DOCUMENT 12593713 BY REPUBLIC STEEL CORPORATION TO THE CITY OF CHICAGO, SHOWN ON SURVEY.
- EXCEPTION M (22) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE PERPETUAL EASEMENT RECORDED MARCH 23, 1943 AS DOCUMENT 13047028 RESERVED BY GRANTOR IN THE DEED FROM REPUBLIC STEEL CORPORATION TO DEFENSE PLANT CORPORATION DATED FEBRUARY 17, 1943 FOR TRACK MAINTENANCE, SHOWN ON SURVEY.
- EXCEPTION N (23) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE PERPETUAL RIGHT AND EASEMENT CREATED BY GRANT FROM DEFENSE PLANT CORPORATION TO UNITED STATES OF AMERICA, DATED JUNE 18, 1943 AND RECORDED JULY 28, 1943 AS DOCUMENT 13114724, SHOWN ON SURVEY.
- EXCEPTION O (24) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE EASEMENT OF SOUTH CHICAGO AND SOUTHERN RAILROAD COMPANY IN LOTS 1, 2 AND 3 TO 12 IN BLOCK 4 AND OTHER PROPERTY BY VESTLE OF JUDGMENT AND CONDEMNATION ENTERED IN CASE 7100 COUNTY COURT COOK COUNTY, ILLINOIS, NOT PLOTTABLE, DOCUMENT NOT PROVIDED TO SURVEYOR, PERTAINS TO PART OF PARCEL 10.
- EXCEPTION P (24) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE PERPETUAL EASEMENT TO ENTER UPON, EXCAVATE AND DREDGE, TO REMOVE THEREFROM ANY AND ALL MATERIALS NECESSARY TO PROVIDE A CHANNEL OF SUCH WIDTH AND DEPTH AS IS AUTHORIZED BY EXISTING LAW TO MAINTAIN SAID CHANNEL AS CREATED BY JUDGMENT OF CONDEMNATION ENTERED JUNE 29, 1943 IN CASE 43 US 541, PERTAINS TO PARCELS 1, 1A, 3, 1A, 8 & 25.
- EXCEPTION Q (26) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE EASEMENT FOR THE PURPOSE OF CONSTRUCTING, USING, MAINTAINING, REPAIRING AND REPLACING CERTAIN RAILROAD TRACKS OVER THAT PART OF LAND LOCATED IN PARCEL 11, RECORDED MARCH 23, 1943 AS DOCUMENT 13047028, NOT SHOWN ON SURVEY.
- EXCEPTION R (27) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE EASEMENT APPURTENANT TO AND FOR THE BENEFIT OF PARCEL 11, AS DESCRIBED IN INSTRUMENT OF TRANSFER FROM REPUBLIC STEEL CORPORATION TO ILLINOIS POLLUTION CONTROL FINANCIAL AUTHORITY RECORDED AUGUST 26, 1979 AS DOCUMENT 23202944 AND FILED SEPTEMBER 8, 1979 AS DOCUMENT LR2828072 FOR SUPPORT, EASEMENT AND EGRESS AND OTHER PURPOSES AS CREATED BY SAID INSTRUMENT OF TRANSFER, NOT SHOWN ON SURVEY.
- EXCEPTION W (32) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE EASEMENTS, TERMS AND PROVISIONS AS CONTAINED IN EASEMENT DATED NOVEMBER 28, 1989 AND RECORDED DECEMBER 1, 1989 AS DOCUMENT 89572849 MADE BETWEEN LTV STEEL COMPANY, INC. A NEW JERSEY CORPORATION, AND REPUBLIC ENGINEERED STEELS, INC. A DELAWARE CORPORATION, NOT SHOWN ON SURVEY.
- EXCEPTION X (33) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE EASEMENTS, TERMS AND PROVISIONS AS CONTAINED IN EASEMENT DATED NOVEMBER 28, 1989 AND RECORDED DECEMBER 1, 1989 AS DOCUMENT 89572895 MADE BETWEEN LTV STEEL COMPANY, INC. A NEW JERSEY CORPORATION, AND REPUBLIC ENGINEERED STEELS, INC. A DELAWARE CORPORATION, NOT SHOWN ON SURVEY.
- EXCEPTION Y (34) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO TERMS AND PROVISIONS OF ASSIGNMENT OF EASEMENT DATED MAY 3, 1994 AS DOCUMENT NUMBER 94423591 MADE BY AND BETWEEN ALLIED SIGNAL INC AND PVS CHEMICALS, NOT SHOWN ON SURVEY.
- EXCEPTION AA (37) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE DECLARATION OF EASEMENTS MADE BY REPUBLIC TECHNOLOGIES INTERNATIONAL, LLC, DATED JULY 10, 2000 AND RECORDED JULY 18, 2000 AS DOCUMENT NUMBER 00536989, IN CONNECTION WITH A CERTAIN PURCHASE, NOT SHOWN ON SURVEY.
- EXCEPTION AC (39) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE EASEMENT MADE BY REPUBLIC STEEL CORPORATION, A CORPORATION OF NEW JERSEY TO THE PEOPLES GAS LIGHT AND COKE COMPANY, A CORPORATION OF ILLINOIS DATED DECEMBER 21, 1985 AND RECORDED APRIL 19, 1979 AS DOCUMENT 24926628, NOT SHOWN ON SURVEY.
- EXCEPTION AD (41) IN THE ABOVE REFERENCED NOTE NO. 6, REFERS TO THE EASEMENT BY REPUBLIC STEEL CORPORATION, A CORPORATION OF ILLINOIS OF NEW JERSEY TO UNITED STATES OF AMERICA, DATED JULY 13, 1943 AND RECORDED AUGUST 5, 1943 AS DOCUMENT 13119071 AS MODIFIED BY INSTRUMENT BETWEEN SAID PARTIES DATED APRIL 12, 1944 AND RECORDED MARCH 12, 1944 AS DOCUMENT 13282470, NOT PLOTTABLE. BASED ON CAREFUL INSPECTION OF FEMA FLOOD INSURANCE RATE MAP, COMMUNITY PANEL 1703100070 J, DATED AUGUST 19, 2008, THE PROPERTY SHOWN HEREON LIES WITHIN ZONE X, AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.
- THERE WAS NO EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED DURING THE PROCESS OF THE SURVEY FIELD WORK.
- NO ZONING REPORT WAS PROVIDED TO THE SURVEYOR FOR REVIEW.
- UTILITY LOCATIONS FROM JULLIE DESIGN STAGE LOCATE TICKET NUMBER 00616 X1302279-00X SHOWN PER ATLAS PROVIDED BY CORRESPONDING UTILITY COMPANY. LOCATIONS ARE APPROXIMATE.
- ADJOINING OWNERSHIP INFORMATION TAKEN FROM LAND TITLE SURVEY PREPARED BY COLE ASSOCIATES INC. ON FEB. 11, 1997.
- RECORD DESCRIPTIONS OF ADJOINERS NOT PROVIDED TO SURVEYOR.
- CHICAGO TITLE INSURANCE COMPANY
- SOUTH CHICAGO PROPERTY MANAGEMENT COMPANY, LTD. AN OHIO LIMITED LIABILITY COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2018 MINIMUM STANDARD REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 6(C), 6(D), 7(B), 8, 11, 13, 14, 15, 16, 17, 18, 19 AND 20 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JANUARY 28, 2019.

DATE OF PLAT OR MAP: \_\_\_\_\_

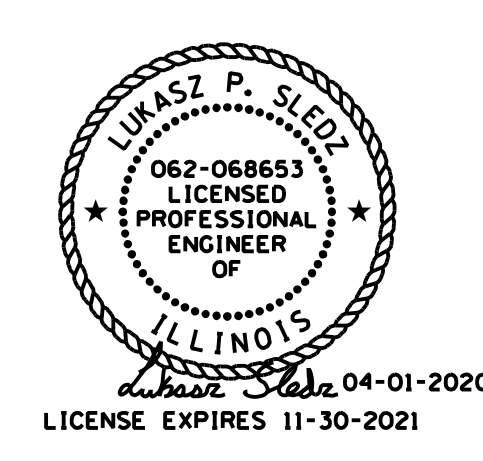
**PRELIMINARY**

STEVEN BARCZAK, IPLS NO. 035-003269  
 LICENSE EXPIRES: 11/30/2020  
 SBARCZAK@KNIGHTEA.COM



THIS PROFESSIONAL SERVICE CONFORMS TO THE ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

**KNIGHT**  
 Engineers & Architects  
 Knight E/A, Inc.  
 221 North LaSalle Street  
 Suite 300  
 Chicago, IL 60601  
 Phone: (312) 577-3300  
 knightea.com



PROJECT: **GENERAL III**  
 11554 S AVENUE O  
 CHICAGO, IL 60617

2 4-1-2020 ISSUE FOR REVISION TO PERMIT  
 1 01-10-2020 ISSUE FOR BID

TOPOGRAPHIC AND UTILITY SURVEY

PROJECT #: 7563 DATE: 04-01-2020

C-0.3

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 221 N. LaSalle Street, Suite 300 Fax (312) 577-3526  
 Chicago, Illinois 60601-1211 knightea.com

11554 S. AVENUE O  
 PREPARED FOR:  
**GENERAL III, LLC**  
 11600 S. BURLEY AVENUE  
 CHICAGO, IL 60617

Drawn By: JV Designed By: SB Scale: 1"=100'

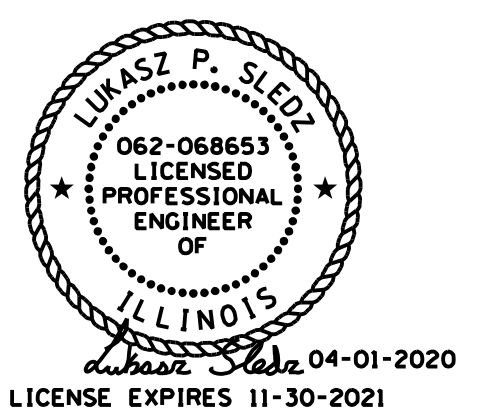
**ALTA/NSPS LAND TITLE SURVEY**

REVISIONS	

SHEET NO. 2  
 DATE: 03/27/19  
 JOB NO. 1586.01



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**GENERAL III**  
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 CHICAGO, IL 60617

2	4-1-2020	ISSUE FOR REVISION TO PERMIT
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TOPOGRAPHIC AND UTILITY SURVEY

PROJECT #:	DATE:
7563	04-01-2020

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**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment E  
USGS Site Location Map**



# USGS 7.5 Minute Quadrangle Map



U.S. DEPARTMENT OF THE INTERIOR  
U.S. GEOLOGICAL SURVEY



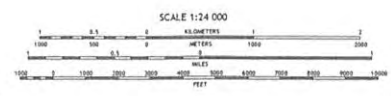
LAKE CALUMET QUADRANGLE  
ILLINOIS - INDIANA  
7.5-MINUTE SERIES



Produced by the United States Geological Survey  
North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84). Projection and  
1:250,000-scale geoid/mean sea level (MSL) datum.  
This map is not a legal document. Boundaries may be  
generalized for this map scale. Private lands within government  
reservations may not be shown. Obtain permission before  
making private lands.

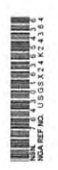
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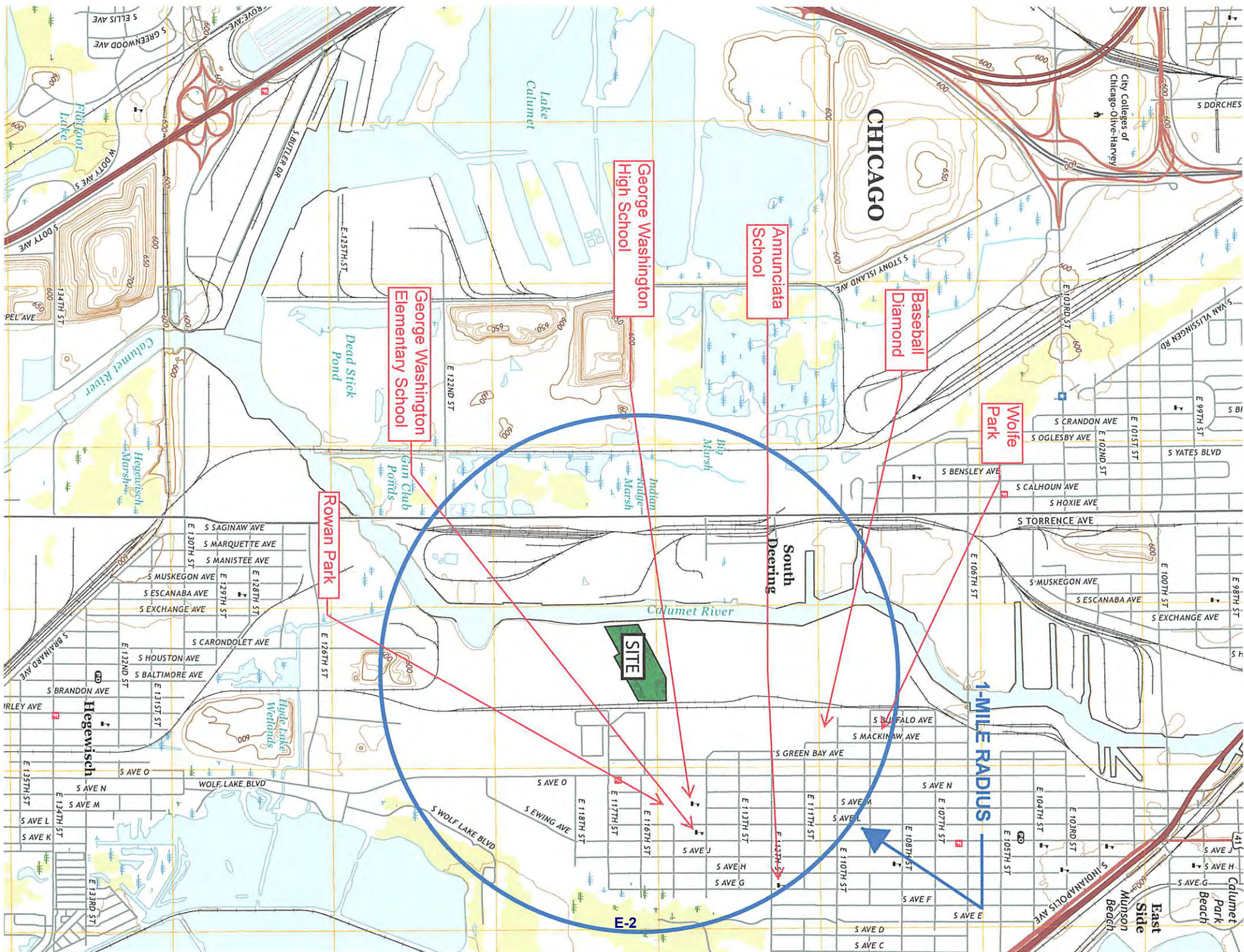
1	2	3	4
5	6	7	8
9	10	11	12



**ROAD CLASSIFICATION**

Expressway	Local Connector
Interstate Route	Local Road
State Route	MSL
US Route	State Route







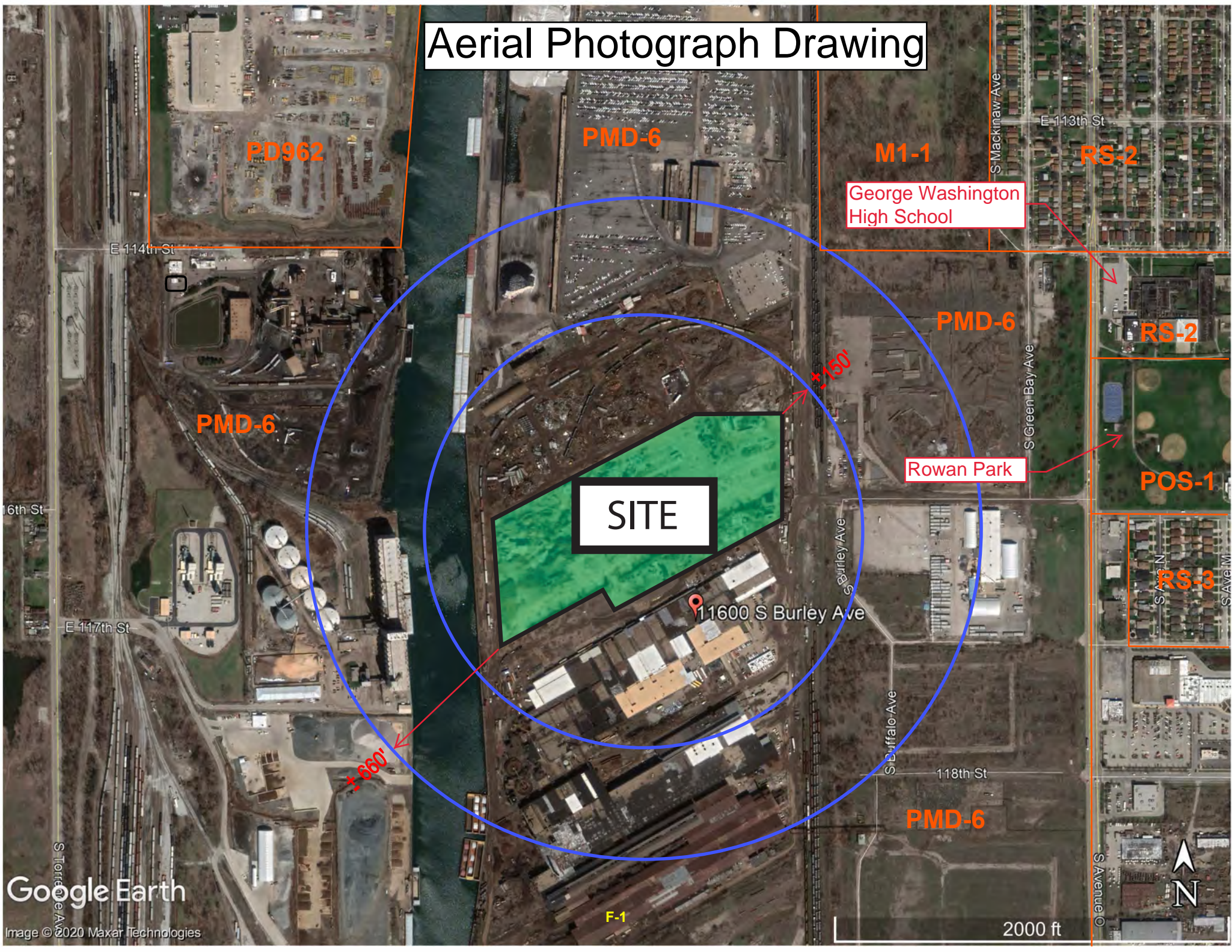
**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment F  
Aerial Photograph Drawing**



# Aerial Photograph Drawing



PD962

PMD-6

M1-1

RS-2

George Washington High School

E 114th St

PMD-6

RS-2

PMD-6

Rowan Park

POS-1

SITE

11600 S Burley Ave

RS-3

16th St

E 117th St

S Burley Ave

S Buffalo Ave

118th St

PMD-6

F-1

2000 ft

Google Earth

Image © 2020 Maxar Technologies



S Avenue ©

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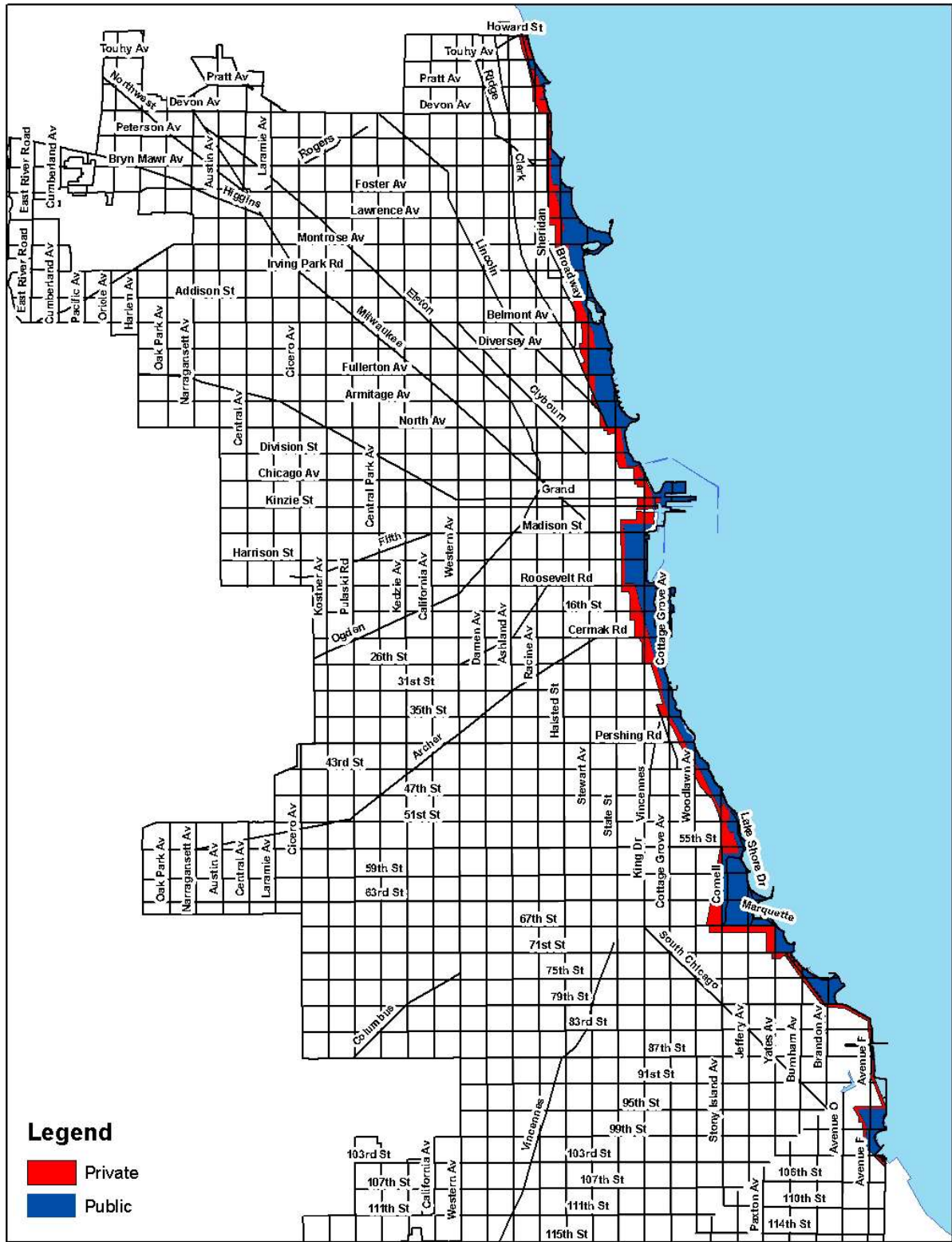
**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment G  
Lake Michigan**



LAKEFRONT PROTECTION DISTRICT



**Legend**  
■ Private  
■ Public

Site Location

16th St  
 Avenue O

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**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment H  
One Hundred Year Flood Plain**



# National Flood Hazard Layer FIRMette



87°33'12"W 41°41'17"N



## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) <i>Zone A, V, A99</i>
		With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i>
		Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>
		Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>
		Area with Flood Risk due to Levee <i>Zone D</i>
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard <i>Zone D</i>
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped
		The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 9/19/2020 at 12:26 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

USGS The National Map: Orthoimagery. Data refreshed April 2020

0 250 500 1,000 1,500 2,000 Feet 1:6,000 H-1

87°32'34"W 41°40'50"N

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**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment I  
Wetlands**





September 19, 2020

**Wetlands**

- |  |                                |  |                                   |  |       |
|--|--------------------------------|--|-----------------------------------|--|-------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake  |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other |
|  | Freshwater Pond                |  | Riverine                          |  |       |

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

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**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment J  
Historical and Natural Areas**



# Chicago Landmarks and NRHP

Chicago Landmarks

■ All items

NRHP

● All items



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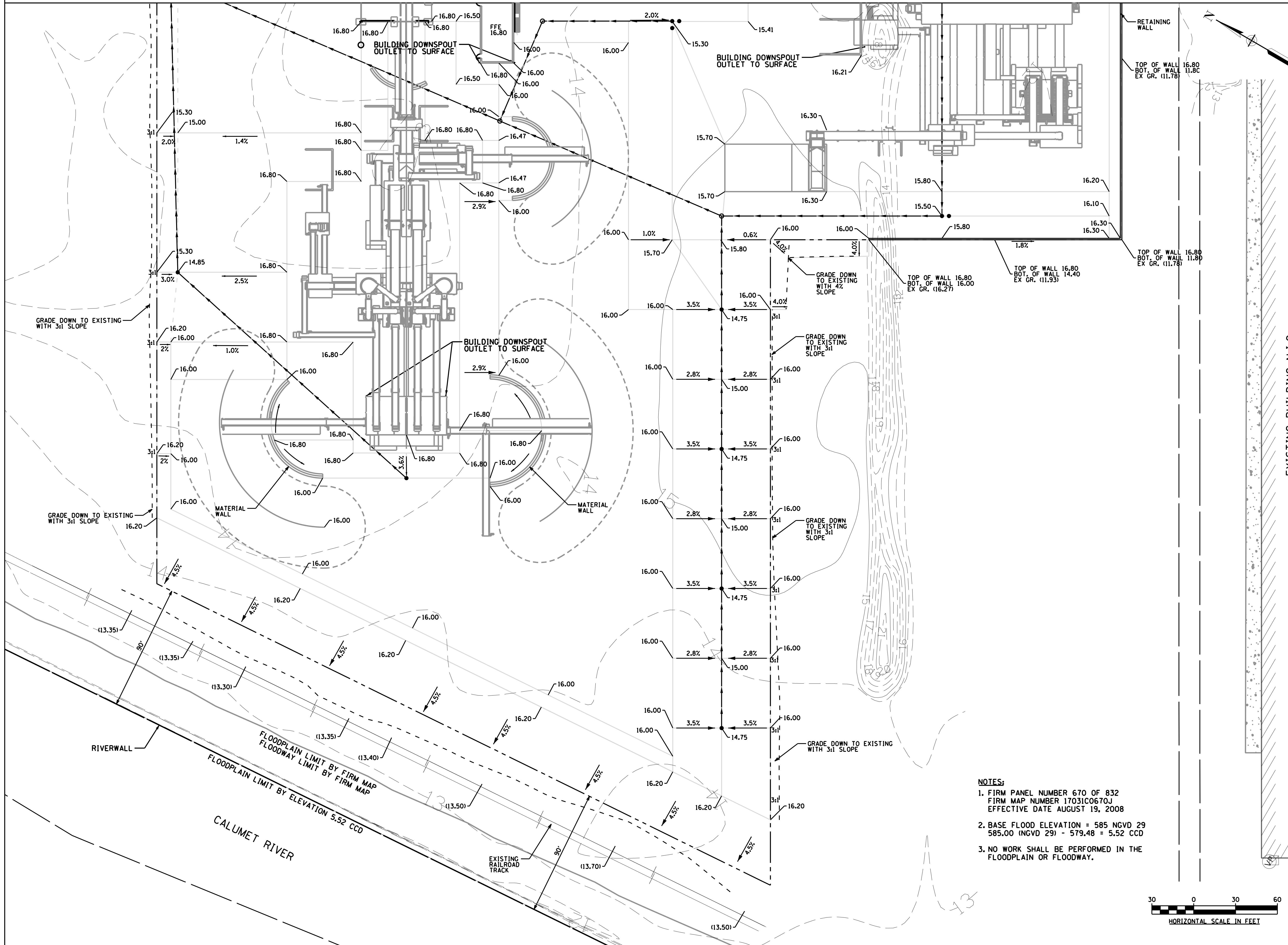
**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

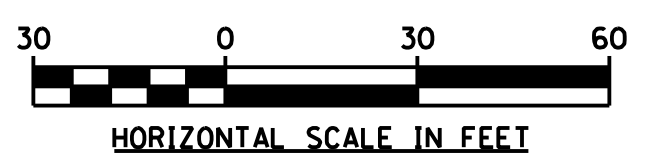
**Attachment K  
General Layout of the Facility**



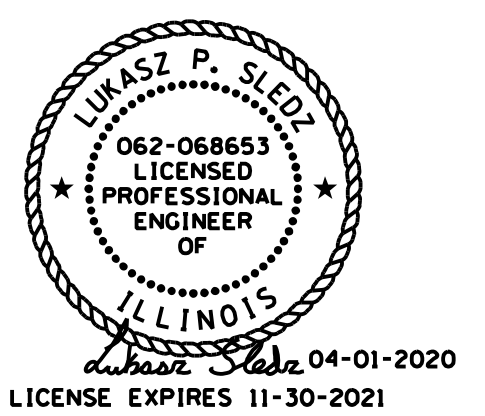
MATCH LINE STA. 17+25



- NOTES:**
1. FIRM PANEL NUMBER 670 OF 832  
FIRM MAP NUMBER 17031C0670J  
EFFECTIVE DATE AUGUST 19, 2008
  2. BASE FLOOD ELEVATION = 585 NGVD 29  
585.00 (NGVD 29) - 579.48 = 5.52 CCD
  3. NO WORK SHALL BE PERFORMED IN THE FLOODPLAIN OR FLOODWAY.



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EXISTING BUILDING N.I.C.

PROJECT:  
**GENERAL III**  
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CHICAGO, IL 60617

2	4-1-2020	ISSUE FOR REVISION TO PERMIT
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GRADING PLAN

PROJECT #: 7563	DATE: 04-01-2020
--------------------	---------------------

C-2.1

MATCH LINE STA. 23+75

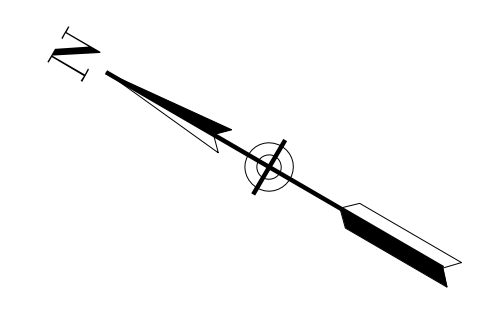
BUILDING DOWNSPOUT  
OUTLET TO  
LANDSCAPE AREA

BUILDING DOWNSPOUT  
OUTLET TO LANDSCAPE AREA

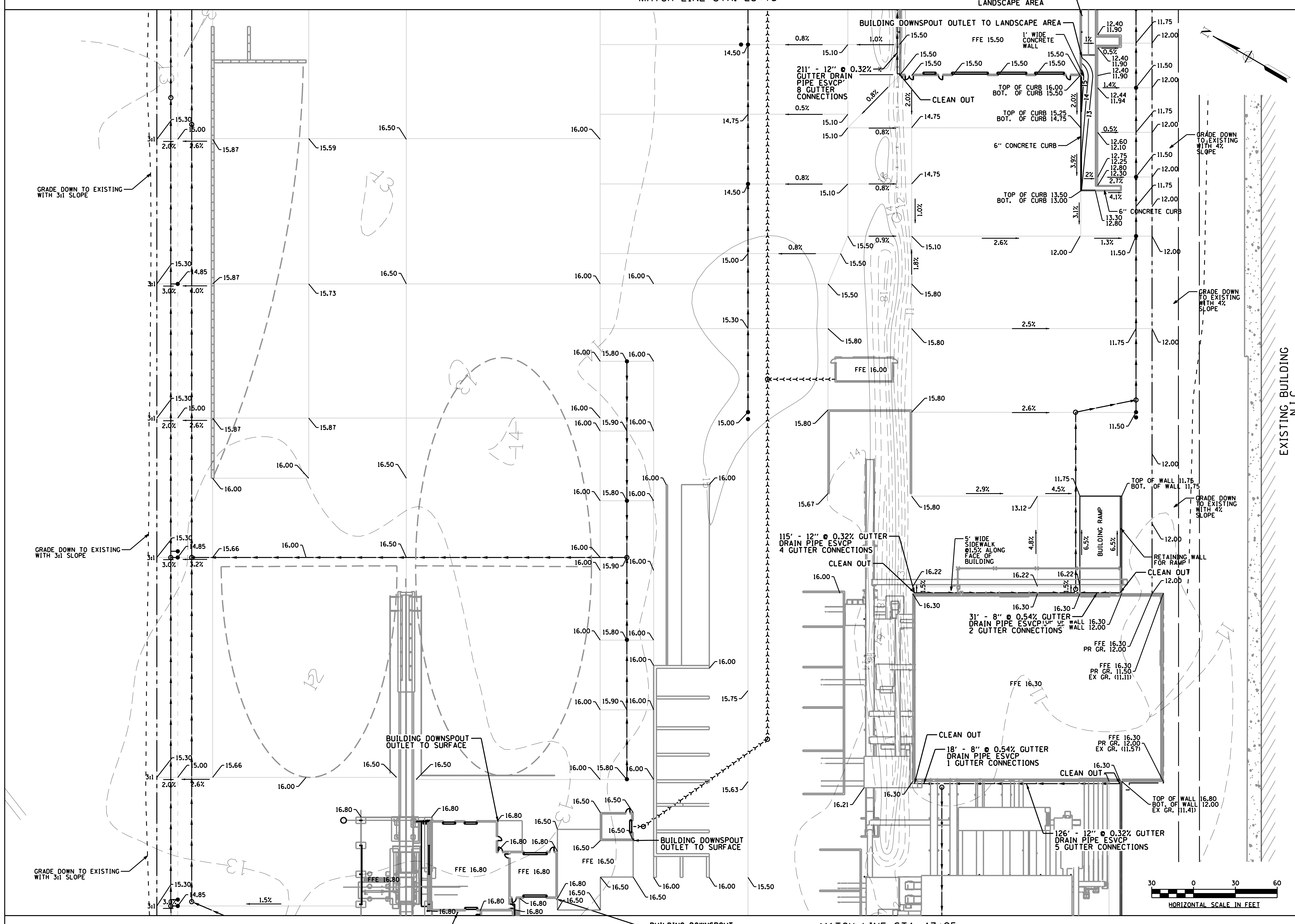
GRADE DOWN TO EXISTING  
WITH 3:1 SLOPE

GRADE DOWN TO EXISTING  
WITH 3:1 SLOPE

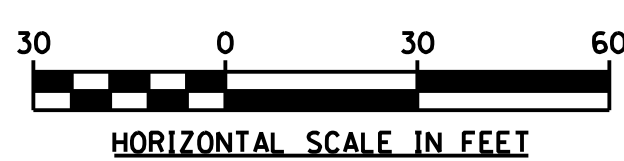
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WITH 3:1 SLOPE



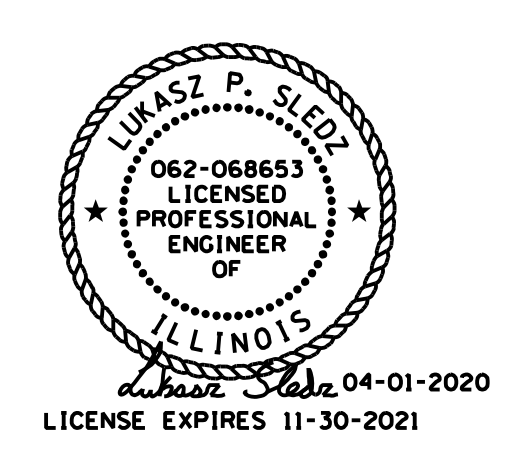
EXISTING BUILDING  
N.I.C.



MATCH LINE STA. 17+25



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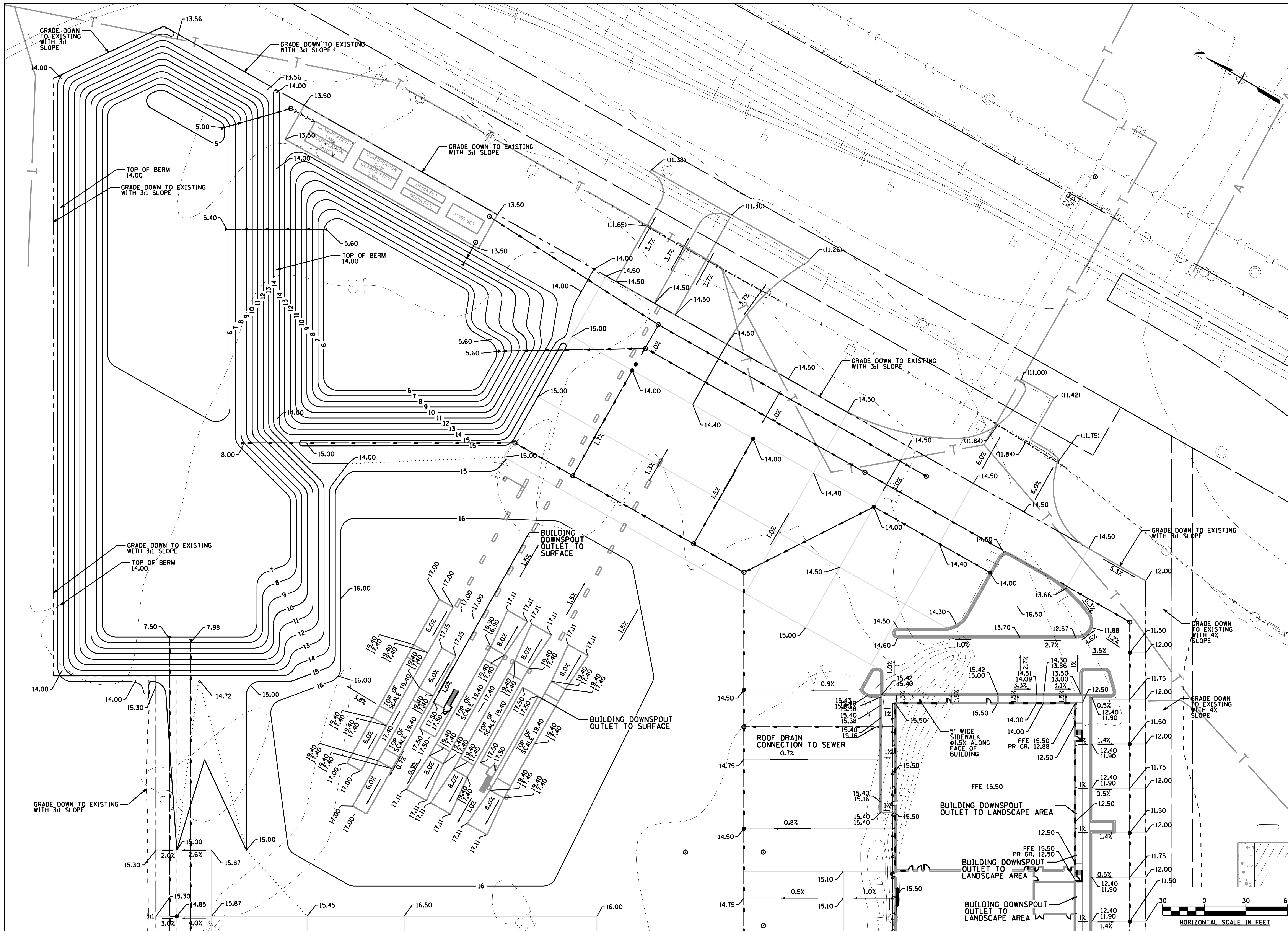
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CHICAGO, IL 60617

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GRADING PLAN

PROJECT #: 7563 DATE: 04-01-2020

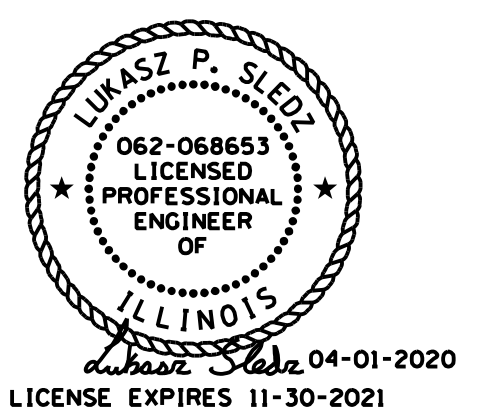
C-2.2



MATCH LINE STA. 23+75

K-3

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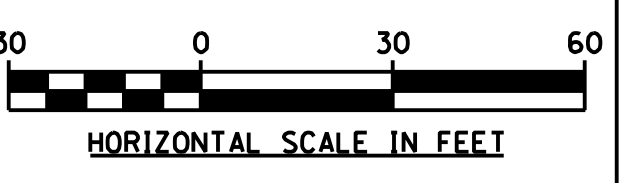
PROJECT:  
**GENERAL III**  
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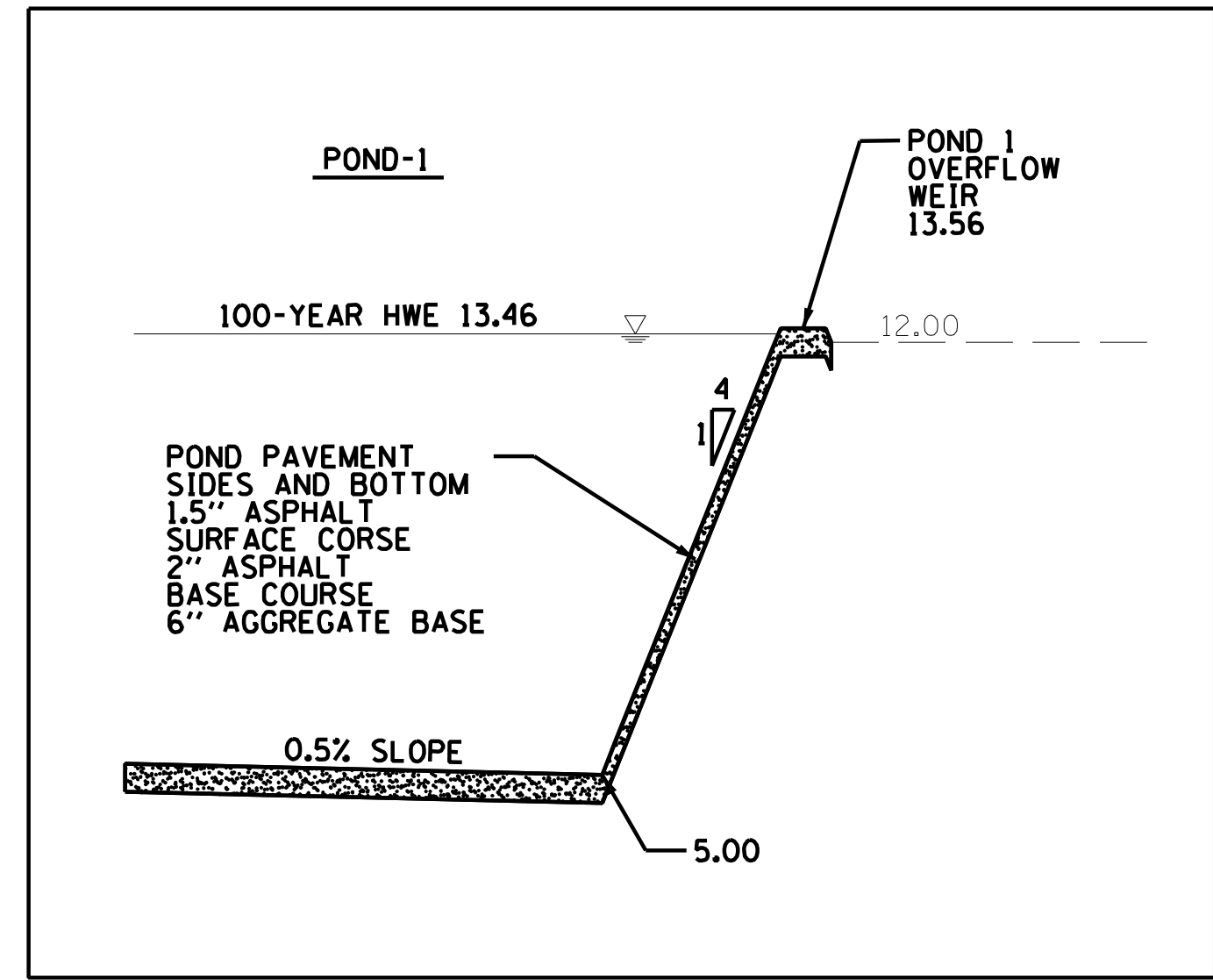
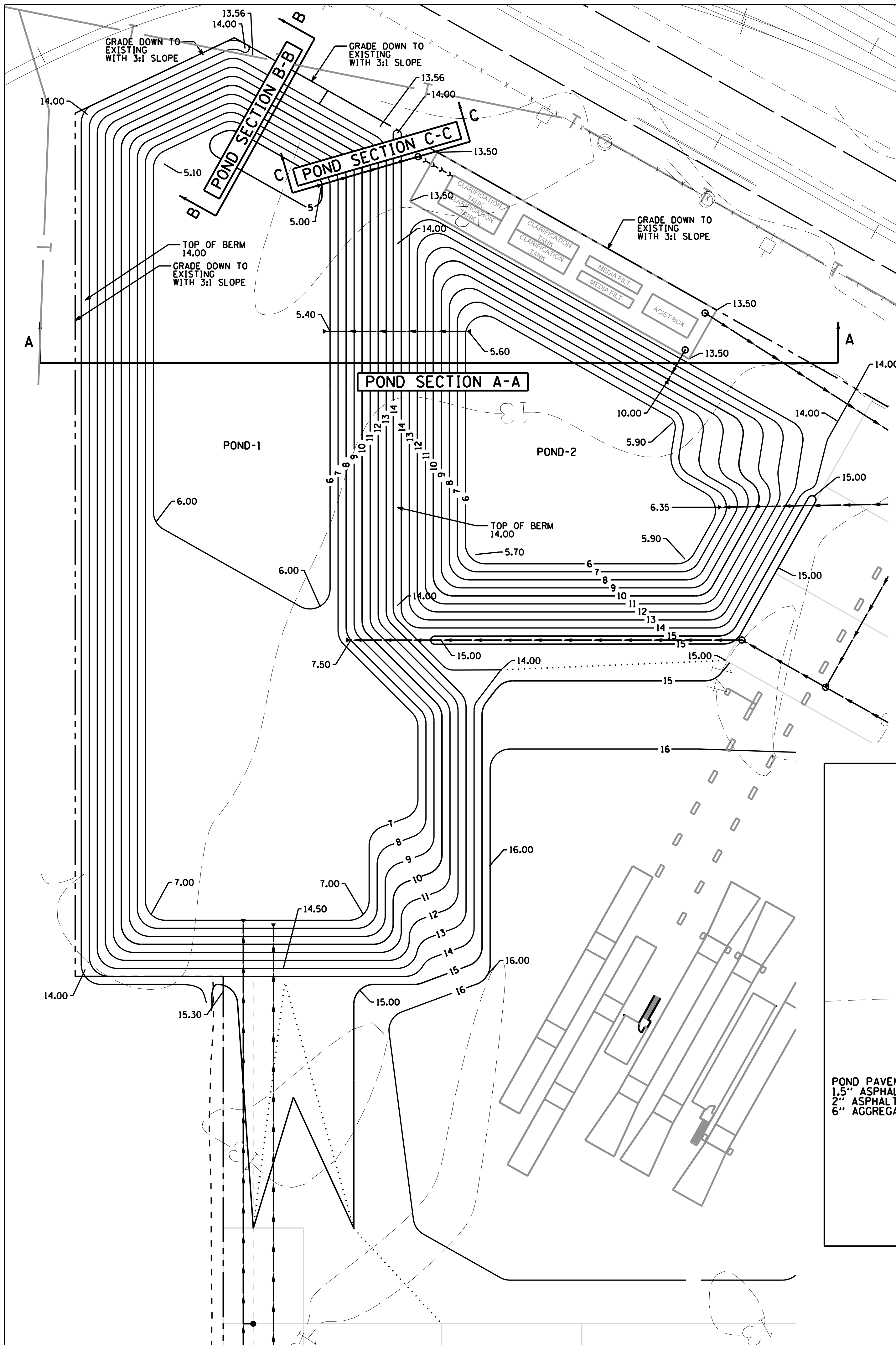
2 4-1-2020 ISSUE FOR REVISION TO PERMIT  
 1 01-10-2020 ISSUE FOR BID

GRADING PLAN

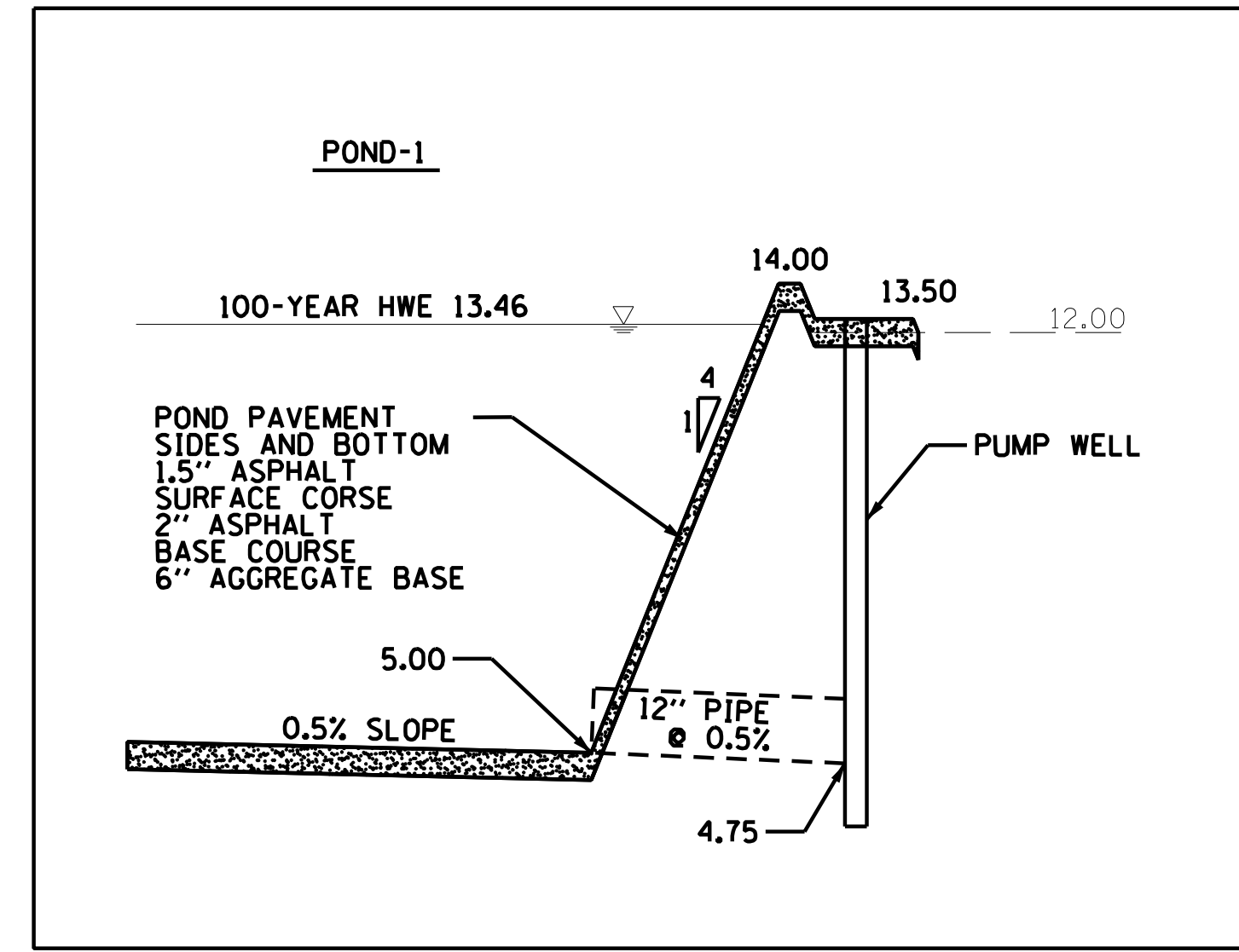
PROJECT #: 7563 DATE: 04-01-2020

C-2.3

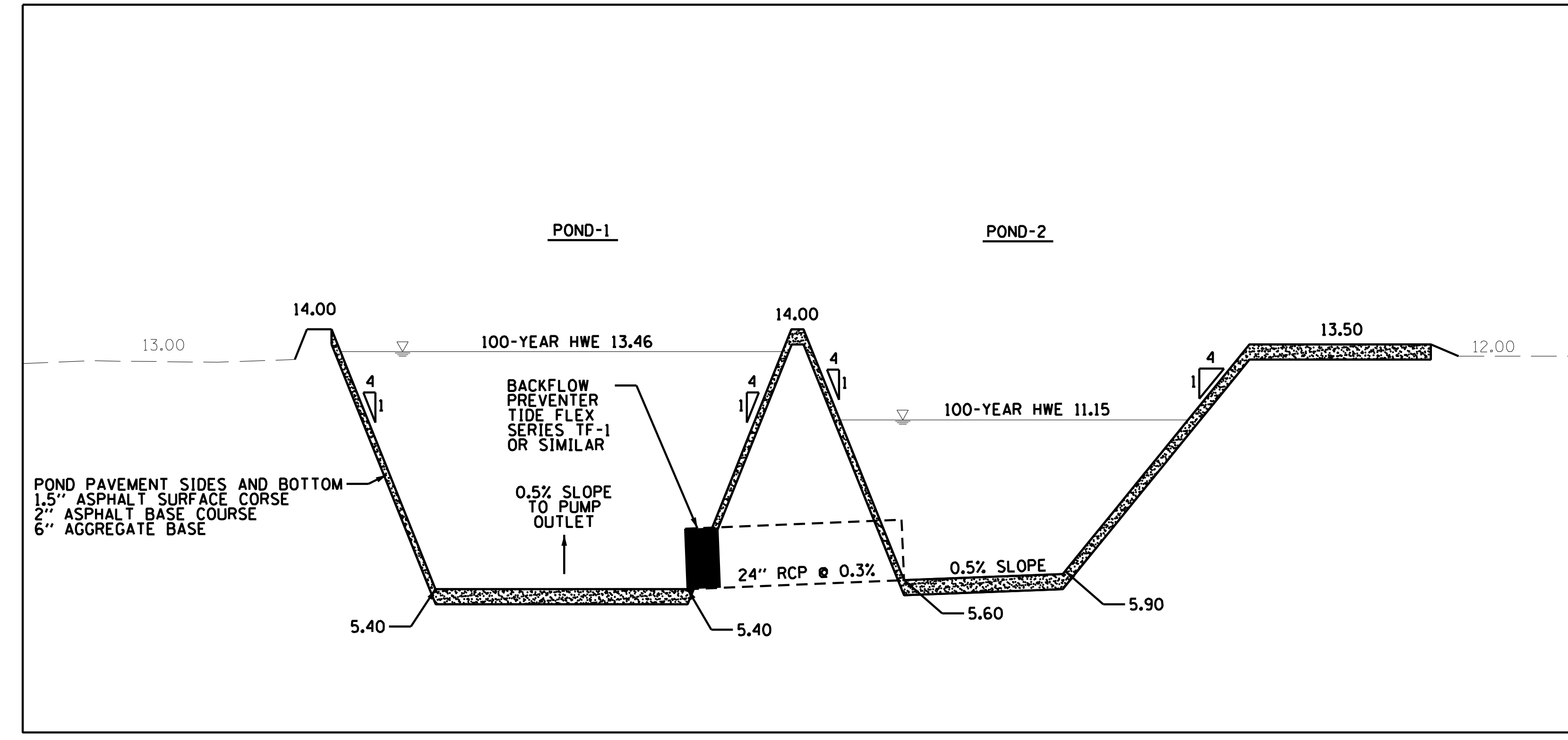




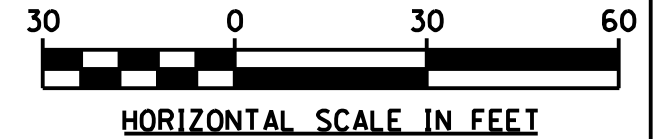
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N.T.S.



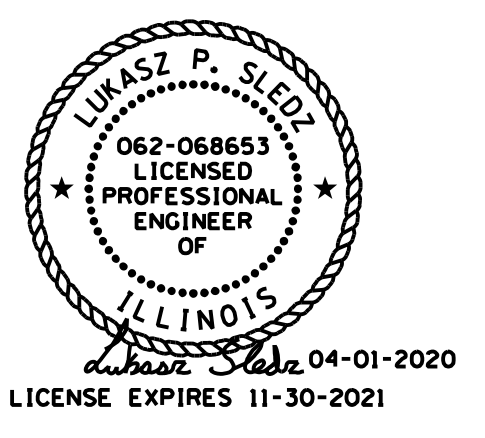
POND SECTION C-C  
N.T.S.



POND SECTION A-A  
N.T.S.



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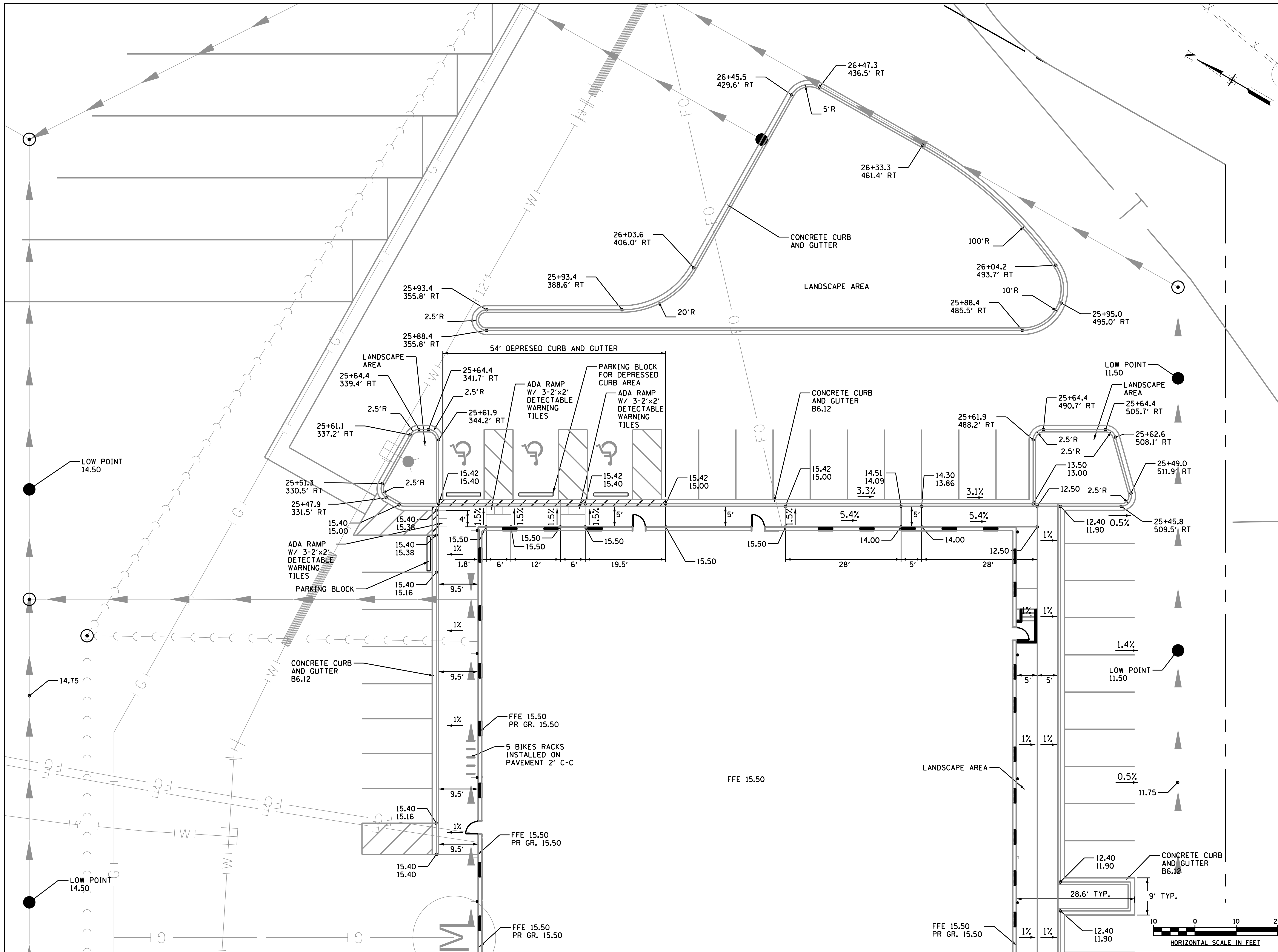
PROJECT:  
**GENERAL III**  
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CHICAGO, IL 60617

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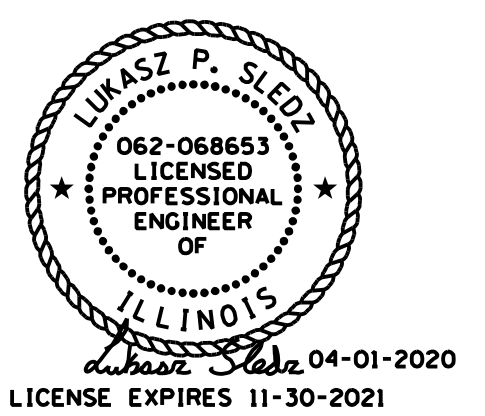
GRADING PLAN  
POND SECTION

PROJECT #: 7563 DATE: 04-01-2020

C-2.4



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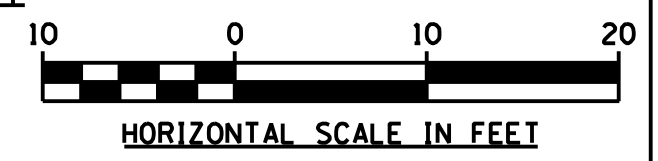
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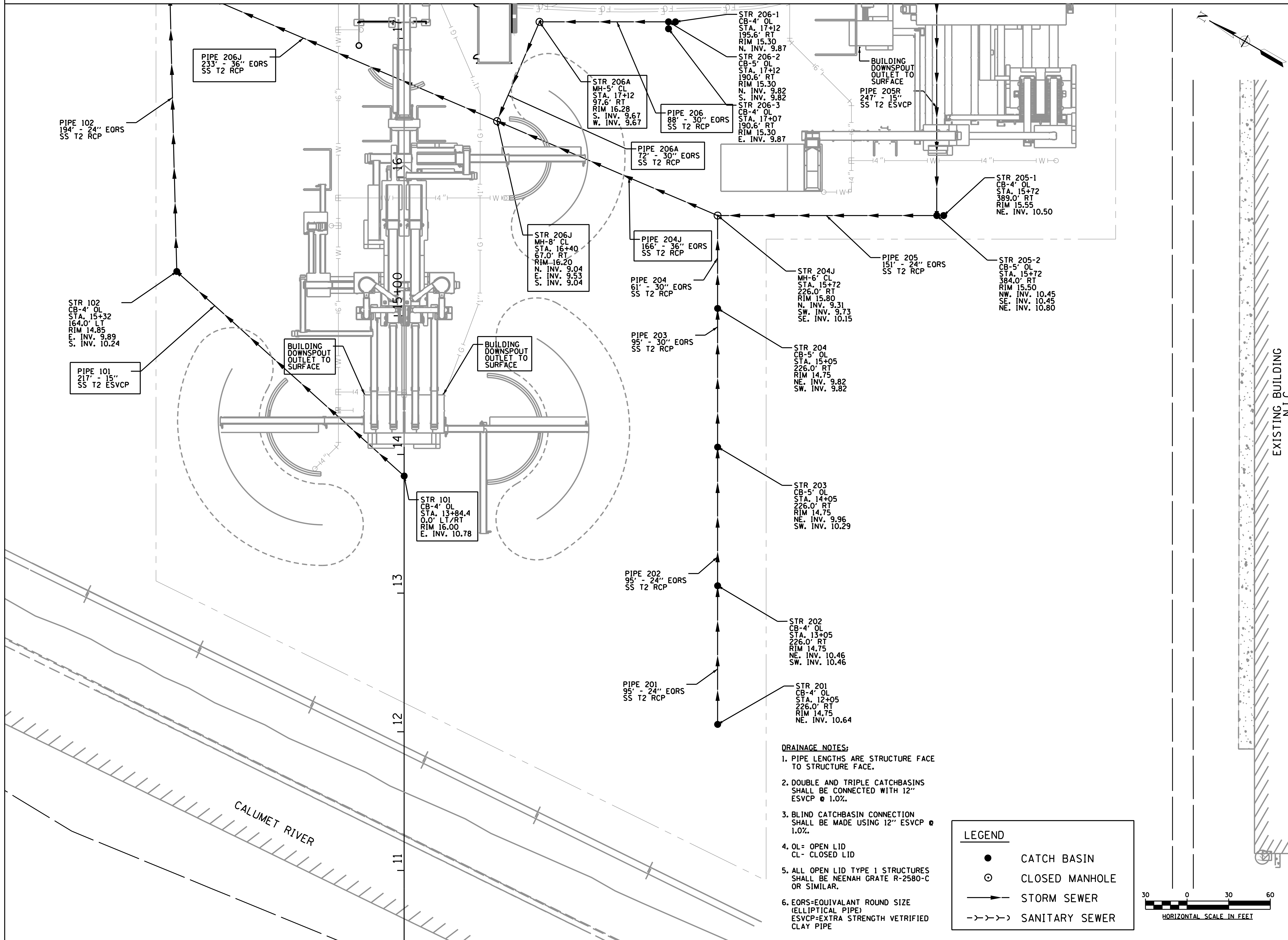
GRADING PLAN  
 DETAILS

PROJECT #: 7563 DATE: 04-01-2020

C-2.5



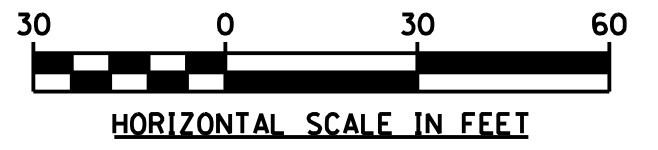
MATCH LINE STA. 17+25



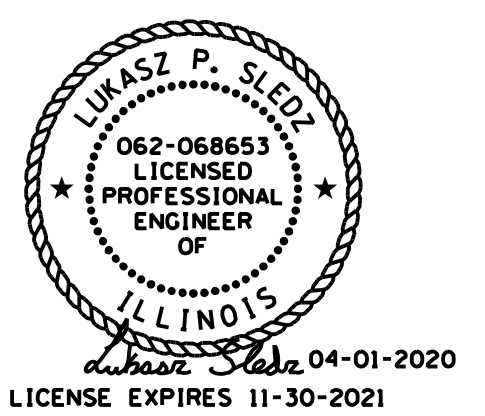
- DRAINAGE NOTES:**
1. PIPE LENGTHS ARE STRUCTURE FACE TO STRUCTURE FACE.
  2. DOUBLE AND TRIPLE CATCHBASINS SHALL BE CONNECTED WITH 12" ESVCP @ 1.0%.
  3. BLIND CATCHBASIN CONNECTION SHALL BE MADE USING 12" ESVCP @ 1.0%.
  4. OL= OPEN LID  
CL- CLOSED LID
  5. ALL OPEN LID TYPE 1 STRUCTURES SHALL BE NEENAH GRATE R-2580-C OR SIMILAR.
  6. EORS=EQUIVALANT ROUND SIZE  
ESVCP=EXTRA STRENGTH VETRIFIED CLAY PIPE

**LEGEND**

- CATCH BASIN
- ⊙ CLOSED MANHOLE
- STORM SEWER
- - - - SANITARY SEWER



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**GENERAL III**  
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DRAINAGE PLAN  
PROJECT #: 7563 DATE: 04-01-2020

C-3.1



MATCH LINE STA. 23+75

STR 106J  
MH-A-5-T1 CL  
STA. 21+78  
164.0' LT  
RIM 14.85  
NE. INV. 7.98  
SW. INV. 7.98

STR 210J  
MH-A-7-T1 CL  
STA. 22+93  
153.9' LT  
RIM 15.50  
NE. INV. 7.79  
SW. INV. 7.79

STR 105  
CB-4' OL  
STA. 21+78  
164.0' LT  
RIM 14.85  
NE. INV. 8.72  
SW. INV. 8.72

PIPE 209J  
305' - 42" EORS  
SS T2 RCP

PIPE 104  
325' - 30" EORS  
SS T2 RCP

STR 104-1  
CB-4' OL  
STA. 19+82  
226.0' RT  
RIM 14.95  
NE. INV. 9.42

STR 104  
MH-A-5-T1 CL  
STA. 19+82  
169.0' LT  
RIM 14.85  
NE. INV. 8.92  
SW. INV. 8.92

PIPE 207J  
240' - 36" EORS  
SS T2 RCP

PIPE 103  
245' - 24" EORS  
SS T2 RCP

STR 103-2  
CB-4' OL  
STA. 17+37  
168.9' LT  
RIM 14.95  
SE. INV. 10.00

STR 103-1  
CB-4' OL  
STA. 17+32  
164.0' LT  
RIM 14.85  
SW. INV. 10.00

STR 103  
MH-A-5-T1 CL  
STA. 17+32  
169.0' LT  
RIM 14.85  
NE. INV. 9.50  
SW. INV. 9.50

STR 207J  
MH-A-7-T1 CL  
STA. 17+35  
153.9' LT  
RIM 15.34  
NE. INV. 8.81  
S. INV. 8.81

N.E.R. AREA

**DRAINAGE NOTES:**

1. PIPE LENGTHS ARE STRUCTURE FACE TO STRUCTURE FACE.
2. DOUBLE AND TRIPLE CATCHBASINS SHALL BE CONNECTED WITH 12" ESVCP @ 1.0%.
3. BLIND CATCHBASIN CONNECTION SHALL BE MADE USING 12" ESVCP @ 1.0%.
4. OL= OPEN LID  
CL= CLOSED LID
5. ALL OPEN LID TYPE 1 STRUCTURES SHALL BE NEENAH GRATE R-2580-C OR SIMILAR.
6. EORS=EQUIVALANT ROUND SIZE (ELLIPTICAL PIPE) ESVCP=EXTRA STRENGTH VETRIFIED CLAY PIPE

STR 210  
CB-4' OL  
STA. 21+23  
158.2' RT  
RIM 15.80  
E. INV. 10.19

STR 209  
CB-4' OL  
STA. 20+23  
158.2' RT  
RIM 10.51  
NE. INV. 10.00  
SW. INV. 10.00

PIPE 209  
37' - 24" EORS  
SS T2 RCP

STR 208J  
MH-A-6-T1 CL  
STA. 19+82  
158.2' RT  
RIM 15.90  
NW. INV. 9.49  
SE. INV. 10.91  
SW. INV. 9.92

PIPE 208  
53' - 24" EORS  
SS T2 RCP

STR 208  
CB-4' OL  
STA. 19+23  
158.2' RT  
RIM 15.80  
SE. INV. 10.03  
SW. INV. 10.03

PIPE 207  
96' - 24" EORS  
SS T2 RCP

STR 207  
CB-4' OL  
STA. 18+23  
158.2' RT  
RIM 15.80  
SE. INV. 10.23

STR 303-2  
CB-4' OL  
STA. 23+50  
226.0' RT  
RIM 14.50  
SE. INV. 9.70

PIPE 302  
95' - 30" EORS  
SS T2 RCP

STR 302  
MH-6' OL  
STA. 22+50  
245.0' RT  
RIM 14.50  
NE. INV. 9.35  
SW. INV. 9.78

PIPE 301  
159' - 24" EORS  
SS T2 RCP

STR 301-1  
CB-5' OL  
STA. 20+86  
245.0' RT  
RIM 15.00  
NE. INV. 10.10  
SW. INV. 10.10

PIPE 210  
96' - 24" EORS  
SS T2 RCP

STR 301-2  
CB-4' OL  
STA. 20+81  
245.0' RT  
RIM 15.00  
NE. INV. 10.10

PIPE 901  
5' - 6" SANITARY SEWER  
SAN T1 DIP  
@ 0.79%

STR 901  
MH-A-4-T1 CL  
STA. 17+64  
170.4' RT  
RIM 14.25  
E. INV. 6.96  
N. INV. 6.96

STR 303-1  
MH-6' OL  
STA. 23+50  
245.0' RT  
RIM 14.50  
NE. INV. 8.78  
SW. INV. 9.20

211' - 12" @ 0.32%  
GUTTER DRAIN  
PIPE ESVCP  
8 GUTTER CONNECTIONS

CLEAN OUT  
RIM 15.50  
INV. 12.00

PIPE 906  
266' - 8" SANITARY SEWER  
SAN ESVCP  
@ 0.54%

STR 904  
MH-A-4-T1 CL  
STA. 21+10  
259.0' RT  
RIM 14.25  
NE. INV. 5.03  
SW. INV. 5.03

PIPE 904  
46' - 6" SANITARY SEWER  
SAN ESVCP  
@ 0.79%

PIPE 905  
154' - 8" SAN SEWER  
SAN ESVCP  
@ 0.54%

STR 903  
MH-A-4-T1 CL  
STA. 18+52  
259.0' RT  
RIM 14.25  
NE. INV. 6.39  
SW. INV. 6.39  
SE. INV. 6.39

PIPE 904  
100' - 6" SAN SEWER  
SAN MJ DIP  
@ 0.79%

STR 205R  
MH-4' OL  
STA. 18+19  
384.0' RT  
RIM 16.30  
SW. INV. 11.44  
SE. INV. 11.44  
NW. INV. 11.44

BUILDING DOWNSPOUT  
OUTLET TO  
LANDSCAPE AREA

BUILDING DOWNSPOUT  
OUTLET TO  
LANDSCAPE AREA

CLEAN OUT  
RIM 15.50  
INV. 12.00

BUILDING DOWNSPOUT  
OUTLET TO SURFACE

ELEC. ELEV. 9.80-10.50  
SS ELEV. 8.00-9.10  
MIN. CLEARANCE 12"

PIPE 401  
129' - 12" SS T2 ESVCP

GAS ELEV. 8-8.25  
SS ELEV. 9.75-10.75  
MIN. CLEARANCE 18"

STR 401  
MH-4' CL  
FLAT TOP  
STA. 19+59  
480.0' RT  
RIM 14.46  
NE. INV. 9.97  
NW. INV. 9.97  
SE. INV. 9.97

WM ELEV. 8.8-9.8  
SAN ELEV. 6.4-7.0  
CLEARANCE 18"

PIPE 904  
100' - 6" SAN SEWER  
SAN MJ DIP  
@ 0.79%

CLEAN OUT  
RIM 16.30  
INV. 11.50

18' - 8" @ 0.54% GUTTER  
DRAIN PIPE ESVCP  
1 GUTTER CONNECTIONS

BUILDING DOWNSPOUT  
OUTLET TO SURFACE

BUILDING DOWNSPOUT  
OUTLET TO SURFACE

STR 501  
CB-4' OL  
FLAT TOP  
STA. 22+55  
523.3' RT  
RIM 11.50  
NE. INV. 7.39  
NW. INV. 7.39

PIPE 502  
60' - 30" EORS  
SS T2 RCP

PIPE 403  
38' - 24" EORS  
SS T2 RCP

STR 403  
CB-4' OL  
FLAT TOP  
STA. 22+12  
523.3' RT  
RIM 11.50  
NE. INV. 7.48  
NW. INV. 7.48

STR 402J  
MH-4' CL  
FLAT TOP  
STA. 20+86  
480.0' RT  
RIM 12.26  
SE. INV. 7.86  
SW. INV. 8.02

PIPE 402  
113' - 24" EORS  
SS T2 RCP

STR 401  
MH-4' CL  
FLAT TOP  
STA. 19+59  
480.0' RT  
RIM 14.46  
NE. INV. 9.97  
NW. INV. 9.97  
SE. INV. 9.97

PIPE 402J  
40' - 15" SS T2 ESVCP

STR 402A  
MH-4' CL  
FLAT TOP  
STA. 20+96  
529.8' RT  
RIM 12.26  
NE. INV. 7.70  
NW. INV. 7.70

STR 402-1  
CB-4' OL  
FLAT TOP  
STA. 20+86  
523.3' RT  
RIM 11.50  
NE. INV. 8.52  
NW. INV. 8.52

STR 402-2  
CB-4' OL  
FLAT TOP  
STA. 20+82  
523.3' RT  
RIM 11.50  
NE. INV. 8.52

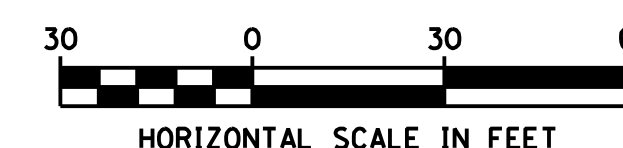
126' - 12" @ 0.32% GUTTER  
DRAIN PIPE ESVCP  
5 GUTTER CONNECTIONS

CLEAN OUT  
RIM 16.30  
INV. 11.84

BUILDING DOWNSPOUT  
OUTLET TO SURFACE

**LEGEND**

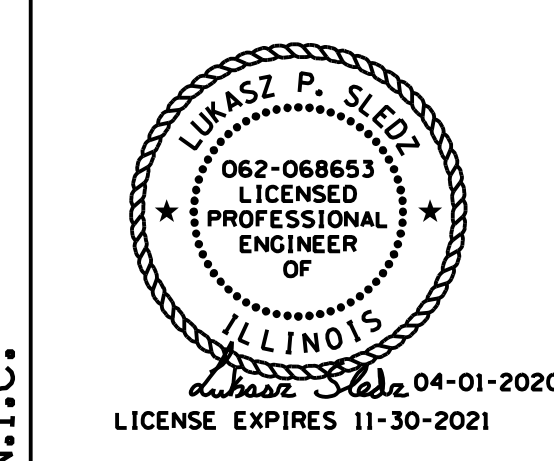
- CATCH BASIN
- CLOSED MANHOLE
- STORM SEWER
- - - - SANITARY SEWER



EXISTING BUILDING  
N.I.C.

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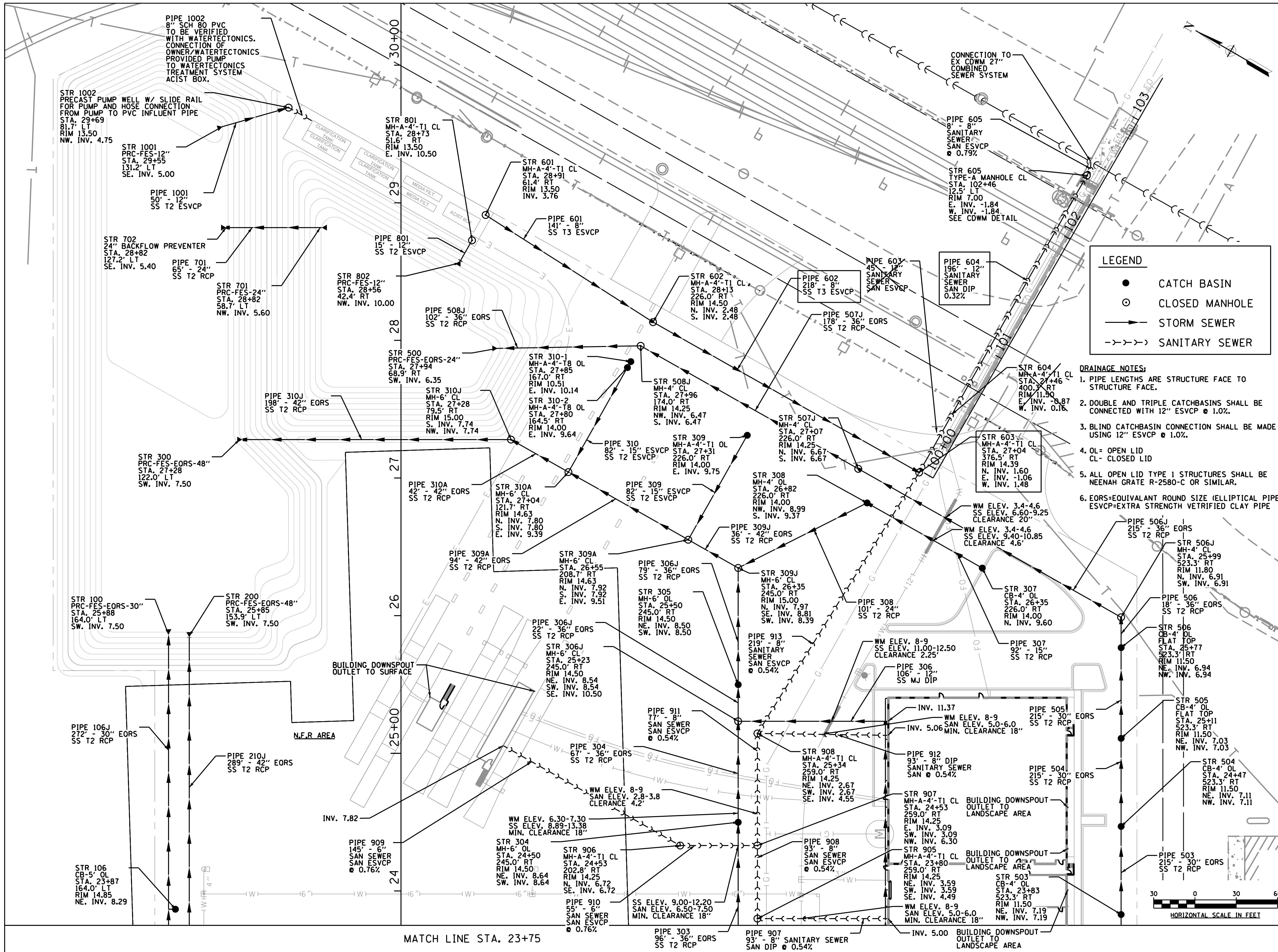
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DRAINAGE PLAN

PROJECT #: 7563 DATE: 04-01-2020

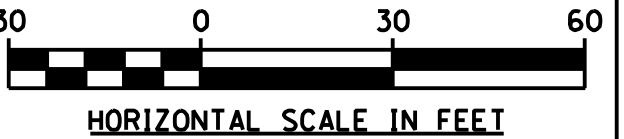
C-3.2



**LEGEND**

- CATCH BASIN
- ⊙ CLOSED MANHOLE
- STORM SEWER
- - - - SANITARY SEWER

- DRAINAGE NOTES:**
1. PIPE LENGTHS ARE STRUCTURE FACE TO STRUCTURE FACE.
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  3. BLIND CATCHBASIN CONNECTION SHALL BE MADE USING 12" ESVCP @ 1.0%.
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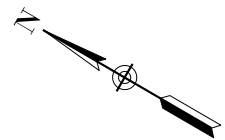
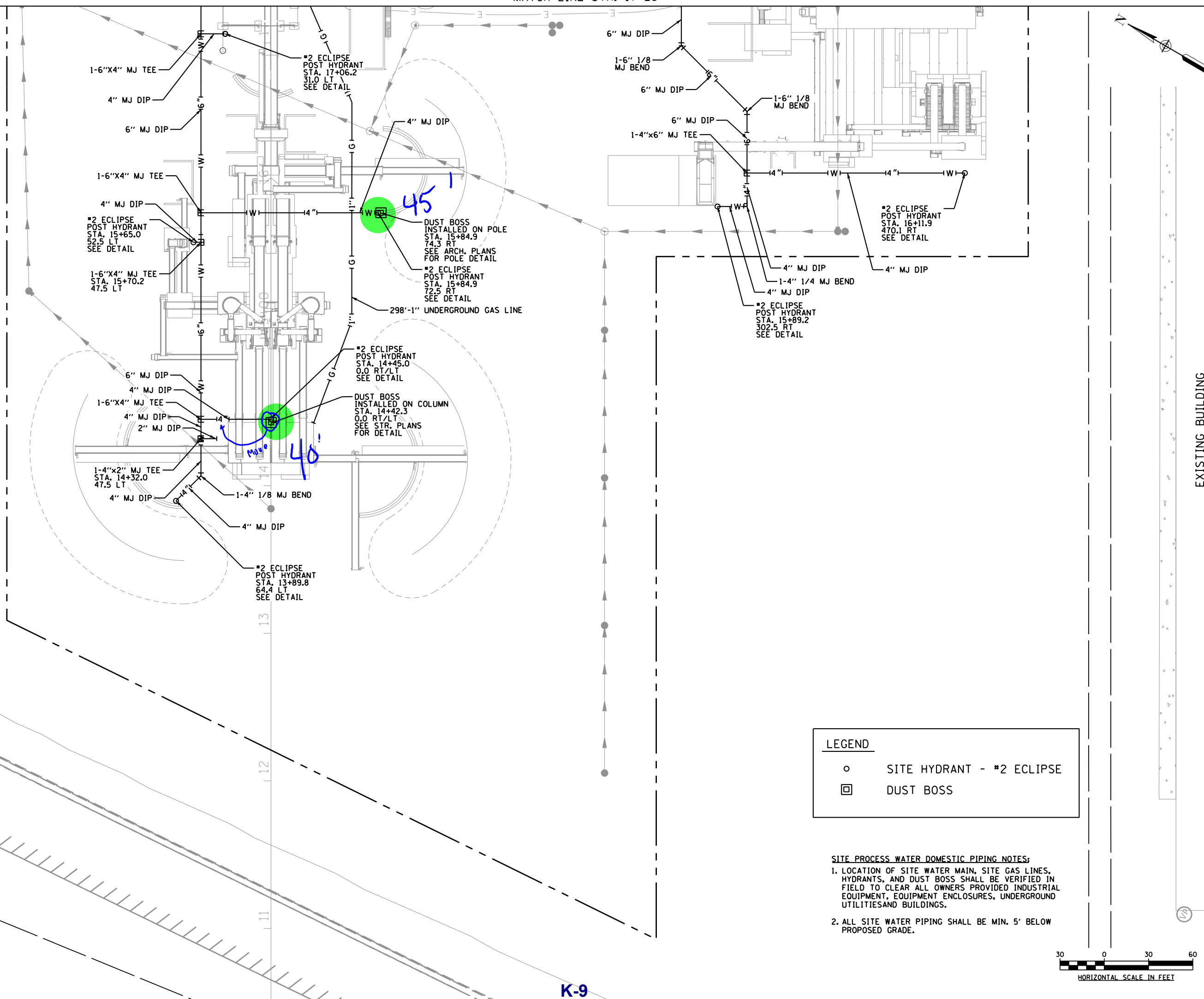
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DRAINAGE PLAN

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C-3.3

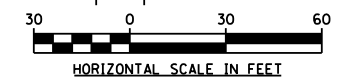
MATCH LINE STA. 17+25



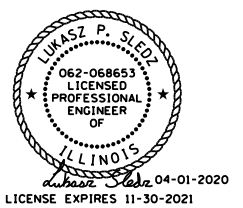
EXISTING BUILDING  
N.I.C.

LEGEND	
○	SITE HYDRANT - #2 ECLIPSE
□	DUST BOSS

- SITE PROCESS WATER DOMESTIC PIPING NOTES:**
1. LOCATION OF SITE WATER MAIN, SITE GAS LINES, HYDRANTS, AND DUST BOSS SHALL BE VERIFIED IN FIELD TO CLEAR ALL OWNERS PROVIDED INDUSTRIAL EQUIPMENT, EQUIPMENT ENCLOSURES, UNDERGROUND UTILITIES AND BUILDINGS.
  2. ALL SITE WATER PIPING SHALL BE MIN. 5' BELOW PROPOSED GRADE.



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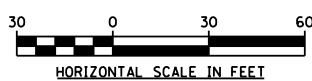
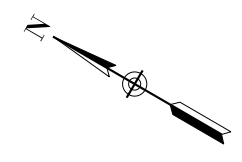
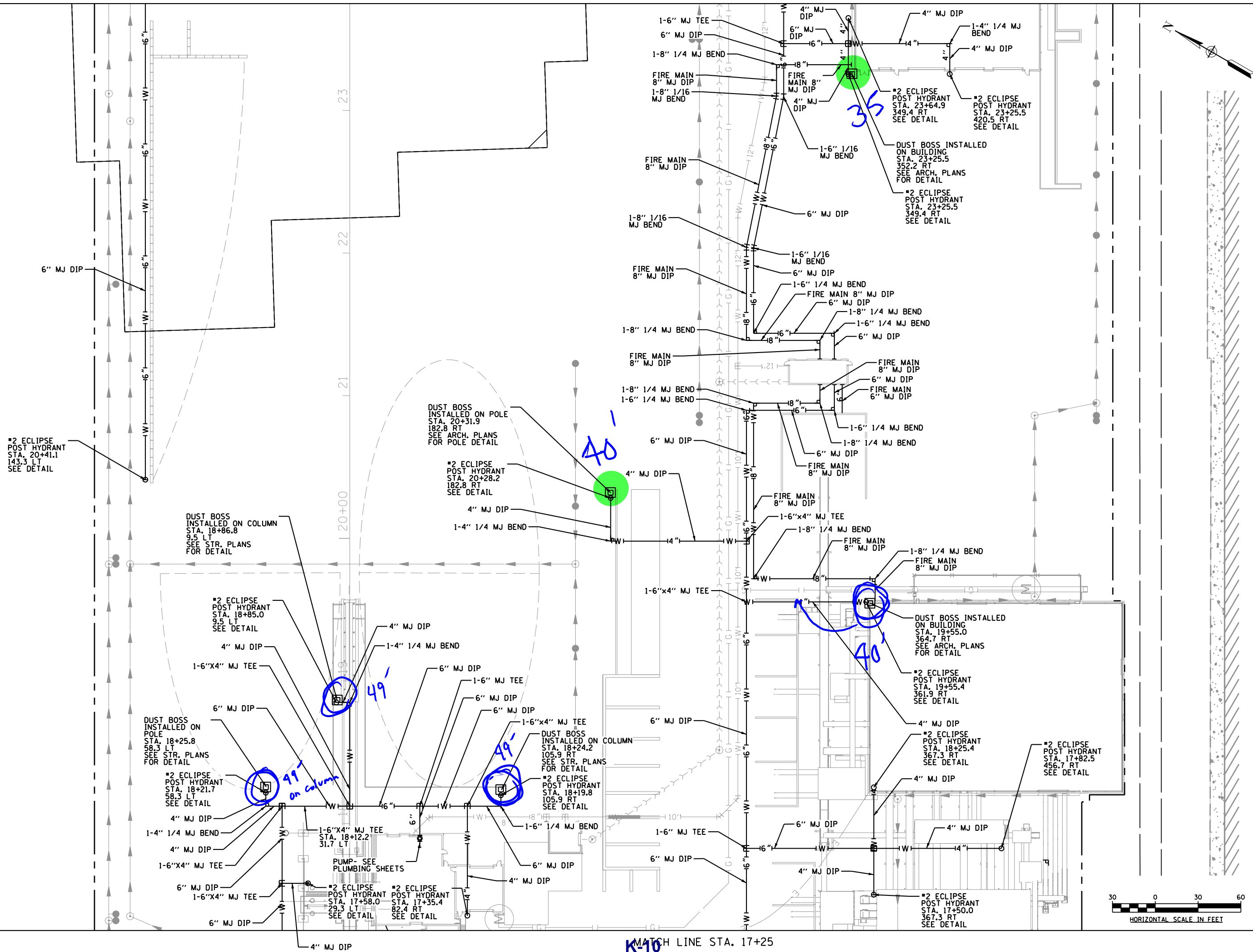
PRIVATE SITE  
PIPING PLAN

PROJECT #:	DATE:
7563	04-01-2020

C-5.1

K-9

MATCH LINE STA. 23+75



MATCH LINE STA. 17+25

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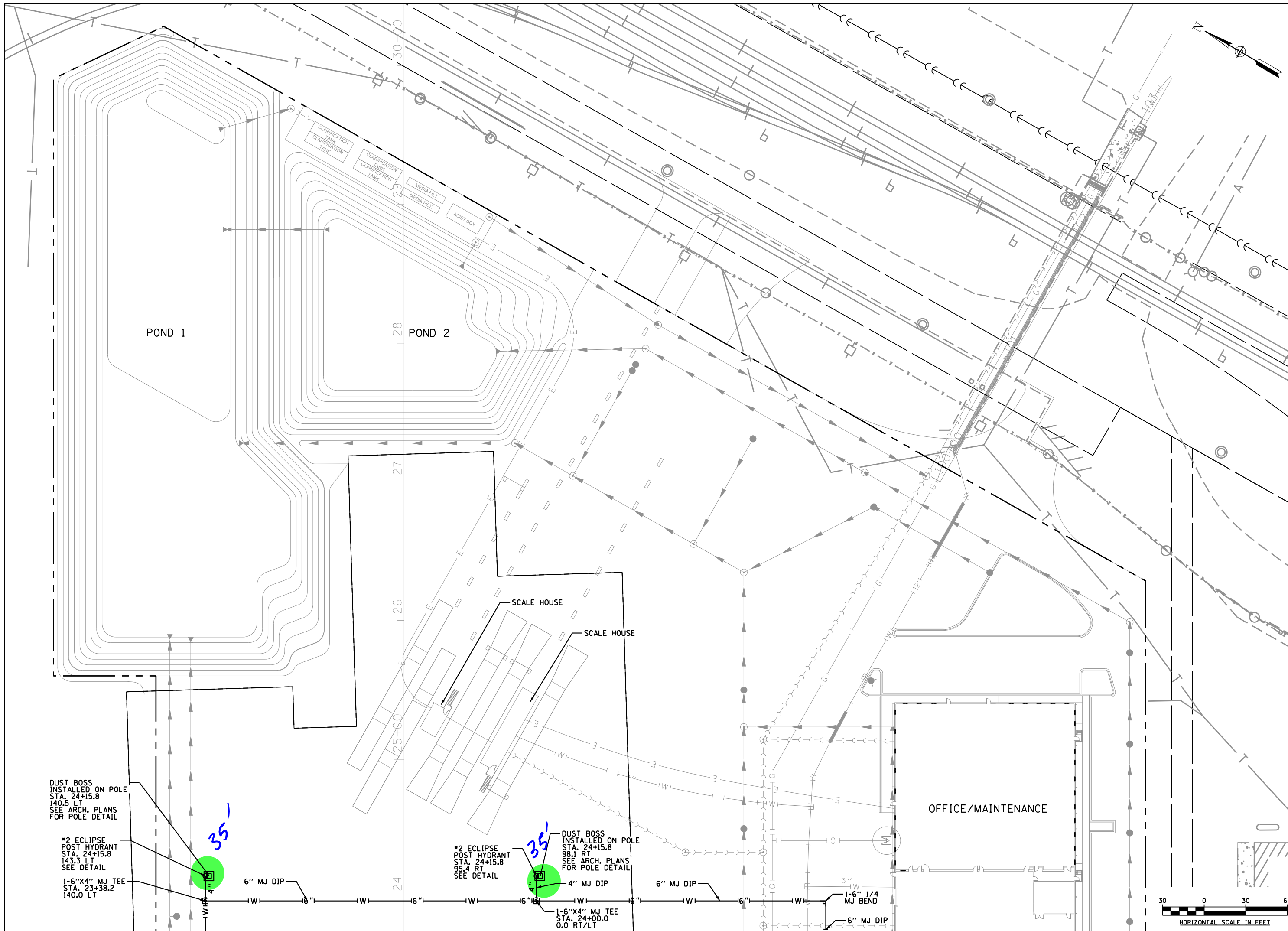
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PRIVATE SITE  
 PIPING PLAN

PROJECT #: 7563 DATE: 04-01-2020

C-5.2



DUST BOSS  
INSTALLED ON POLE  
STA. 24+15.8  
140.5 LT  
SEE ARCH. PLANS  
FOR POLE DETAIL

#2 ECLIPSE  
POST HYDRANT  
STA. 24+15.8  
143.3 LT  
SEE DETAIL

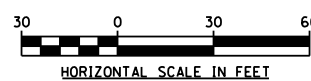
1-6"X4" MJ TEE  
STA. 23+38.2  
140.0 LT

#2 ECLIPSE  
POST HYDRANT  
STA. 24+15.8  
95.4 RT  
SEE DETAIL

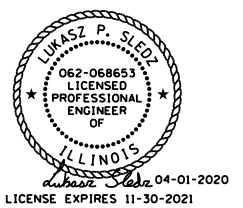
DUST BOSS  
INSTALLED ON POLE  
STA. 24+15.8  
98.1 RT  
SEE ARCH. PLANS  
FOR POLE DETAIL

1-6"X4" MJ TEE  
STA. 24+00.0  
0.0 RT/LT

MATCH LINE STA. 23+75



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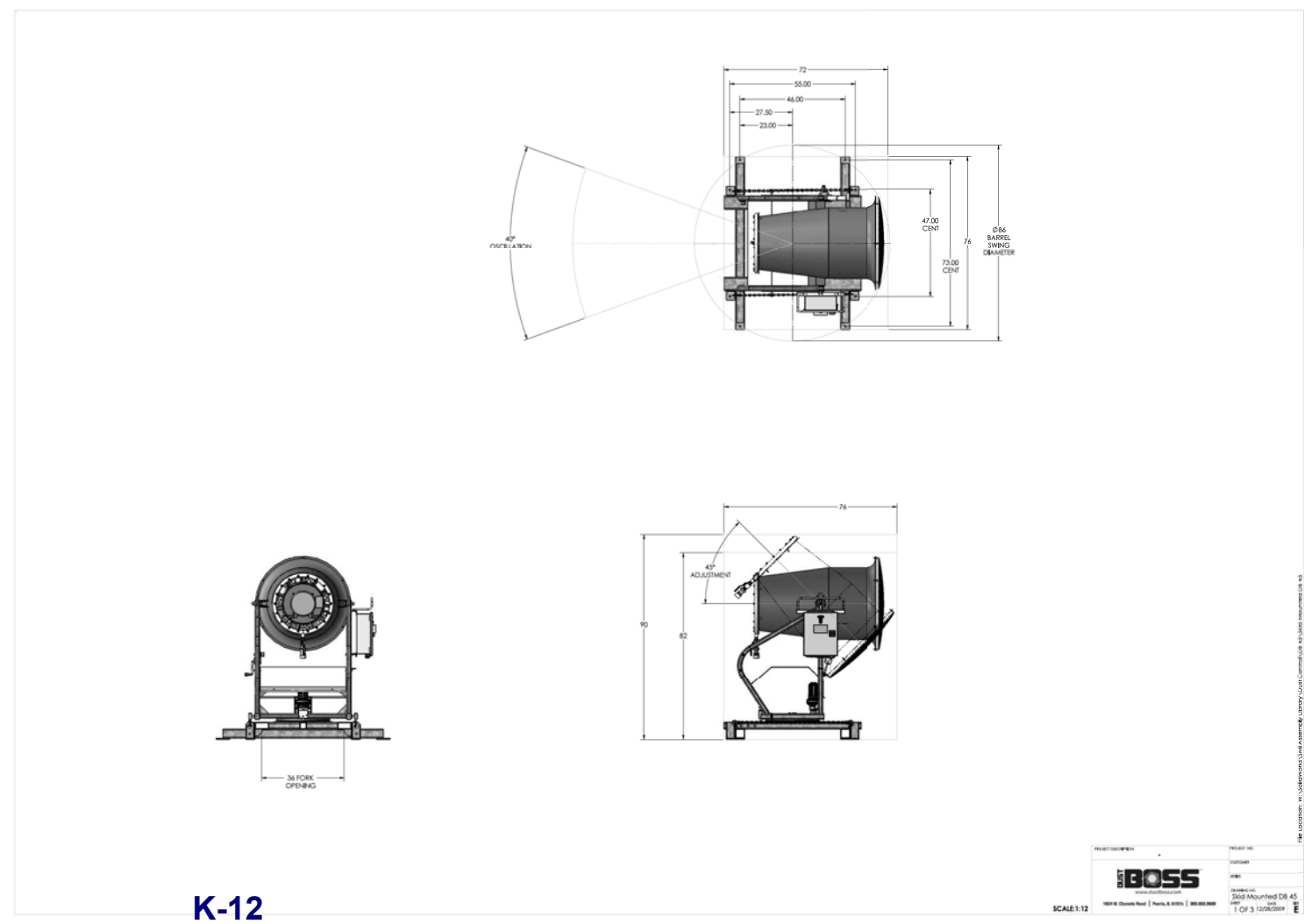
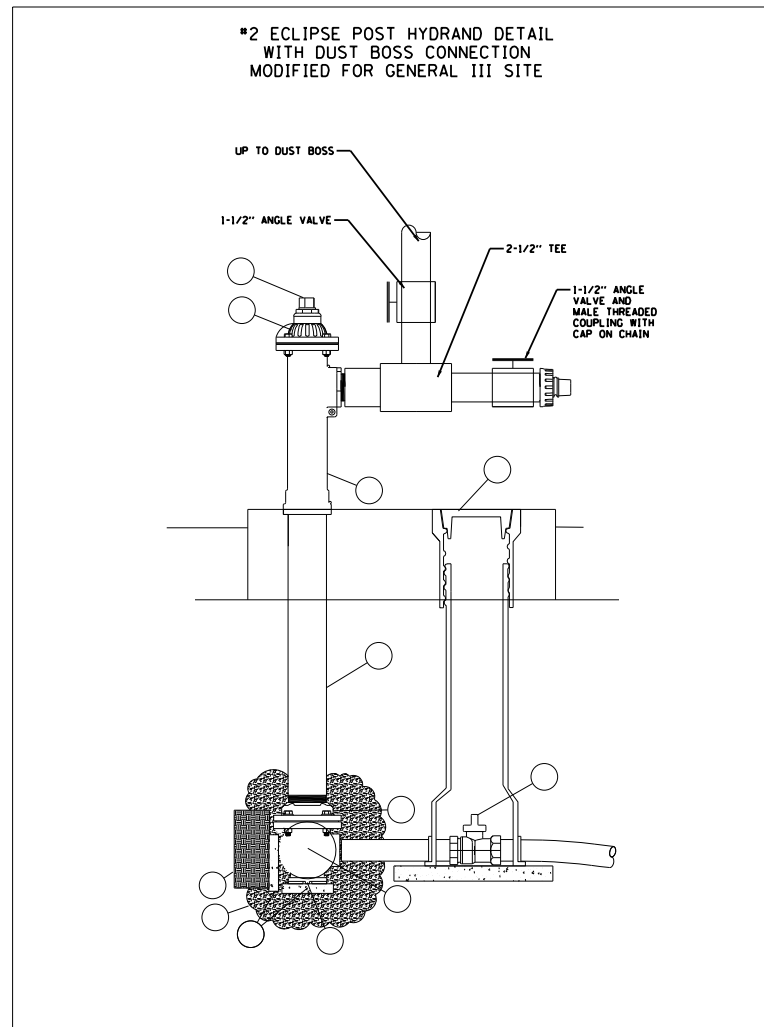
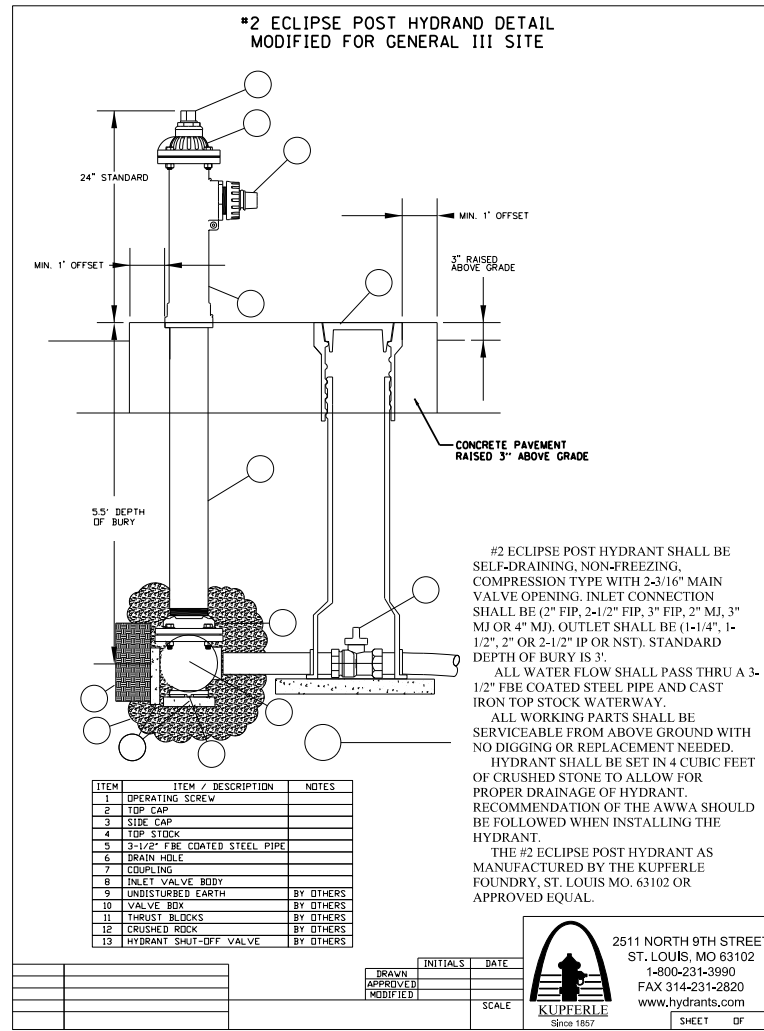
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PRIVATE SITE  
PIPING PLAN

PROJECT #: 7563 DATE: 04-01-2020

C-5.3



# dust BOSS DB-60

## SPECIFICATIONS

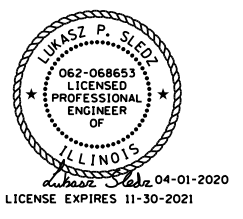
- #### GENERAL SPECIFICATIONS
- Throw: 200 feet (60 meters).
  - Fan: 30,000 CFM (849.50 CMM) generated by 25 HP fan.
  - Coverage with standard 0°-40° oscillation: 14,000 square feet (1,300 square meters).
  - Coverage with optional 359° user-definable oscillation: 125,000 square feet (11,612 square meters).
  - Adjustable throw angle: 0°-50°.
  - Nozzles: 30, brass (also available in stainless and nylon).
  - Droplet size: of 50-200 microns.
  - Premium efficiency direct-drive motor.
- #### WATER REQUIREMENTS
- 10 PSI (0.69 BAR) constant pressure must be delivered to booster pump.
  - Maximum inlet water pressure should not exceed 100 PSI (6.89 BAR) when operating the booster pump.
  - Maximum PSI delivered by booster pump is 250 PSI (17.24 BAR).
  - In-line 30 mesh (595 micron) filter system is included and should be used at all times.
  - Contact us for recommendations if using non-potable water.
  - Connection: 1-1/2" (38.10 mm) cam-and-groove quick disconnect female coupling for fire hose provided on machine.
- #### NOISE
- Between 86 and 100 decibels at 6 feet.
- #### OPTIONS
- Unit is available with optional user-definable oscillation to allow up to 359° of movement. Standard oscillation provides 0°-40° of movement.
  - Available on frame with skid mount or on a tower. Standard unit comes on three-wheeled carriage.
  - Dosing pump can be added to unit for chemical applications.
- #### MAINTENANCE
- If using potable water, nozzles need to be inspected once a year.
  - Fan motor and high pressure pump should be greased every 10,000 hours.
  - Turntable bearing should be greased on a regular maintenance schedule, or as needed.
- #### ELECTRICAL SPECIFICATIONS
- U.S.: 3 Phase / 25 HP fan / 480 Volt / 60 Hertz. Full load current: 46 amps. 60 Kw gen set is recommended.
  - Other motor options available, including all international electrical motors.
  - 10 HP (7.5 Kw) high-pressure booster pump with no lift.
  - Oscillator: 1/8 HP (0.10 Kw).
  - 150 foot (45.72 meters) 8/4 type W electrical cord.
  - Bare wired electrical cord (no male plug).
  - NEMA 3R cabinet with control panel.
- #### ENGLISH UNITS
- |                                   | 40   | 60   | 80   | 100  |
|-----------------------------------|------|------|------|------|
| Supplied Water Pressure, psi      |      |      |      |      |
| Water Flow with Booster Pump, gpm | 22.2 | 23.9 | 25.4 | 26.7 |
| Water Flow, no Booster Pump, gpm  | 12   | 14.6 | 16.9 | 18.9 |
- #### METRIC UNITS
- |                                   | 2.8  | 4.14 | 5.5  | 6.89  |
|-----------------------------------|------|------|------|-------|
| Supplied Water Pressure, bar      |      |      |      |       |
| Water Flow with Booster Pump, lpm | 84   | 90.5 | 96.1 | 101.1 |
| Water Flow, no Booster Pump, lpm  | 45.4 | 55.3 | 64   | 71.5  |
- 1 1/2" Fire Hose Water Supply

**OUR WARRANTY**  
3-year/3,000-hour warranty.

**BOSS TEK**  
309.693.8600 | 1607 W. Chanute Road | Peoria, IL 61615 | BossTek.com

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Engineers & Architects

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Suite 300  
Chicago, IL 60601  
Phone: (312) 577-3300  
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PROJECT:  
**GENERAL III**  
11554 S AVENUE O  
CHICAGO, IL 60617

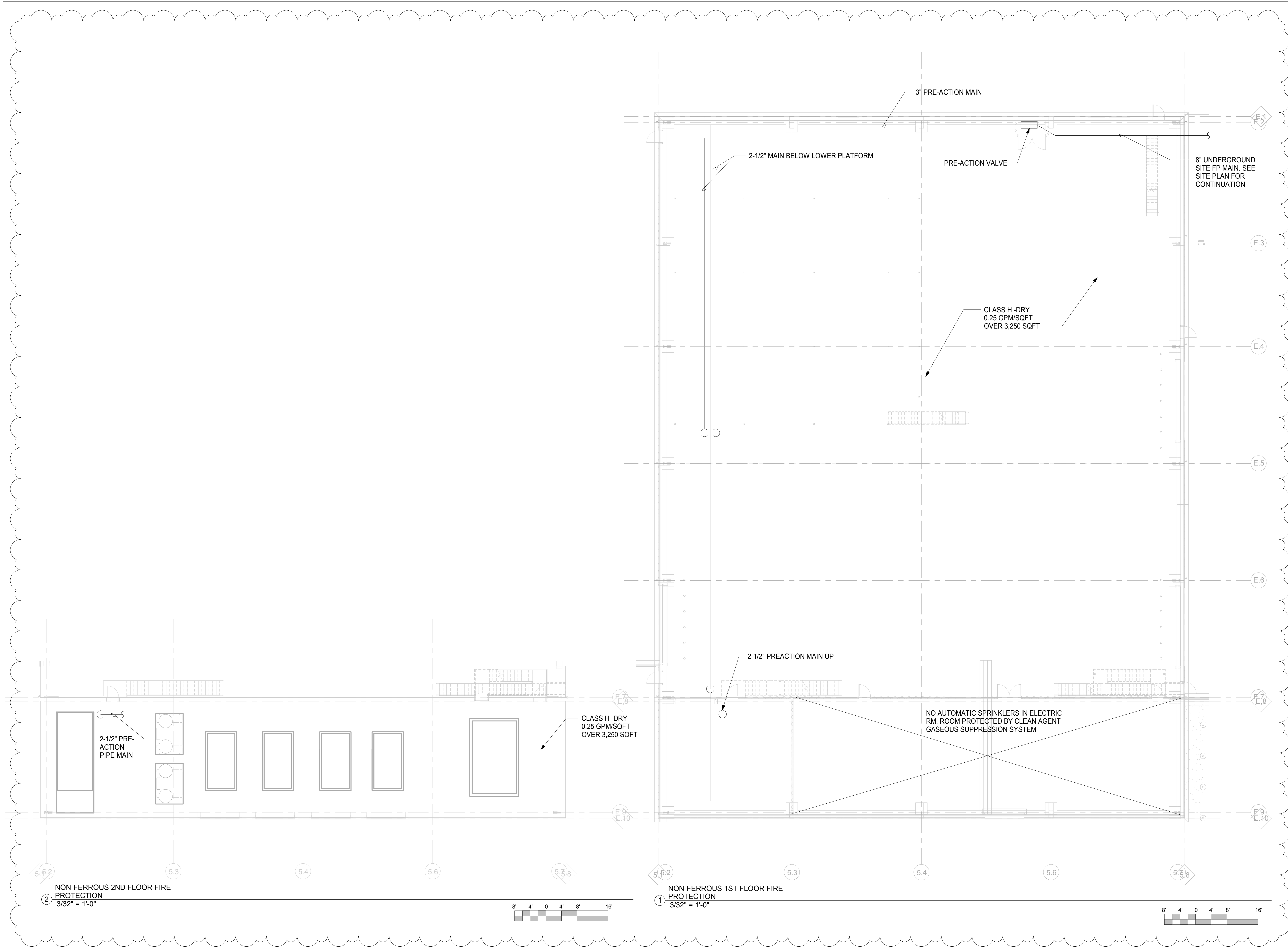
2 4-1-2020 ISSUE FOR REVISION TO PERMIT  
1 01-10-2020 ISSUE FOR BID

PRIVATE SITE  
PIPING PLAN DETAILS

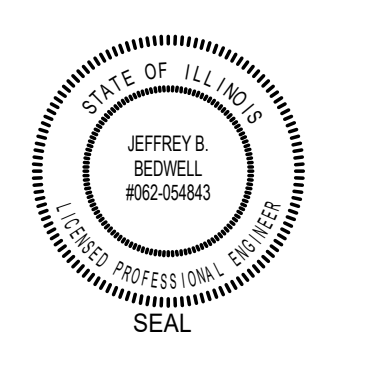
PROJECT #: 7563 DATE: 04-01-2020

C-5.4

K-12



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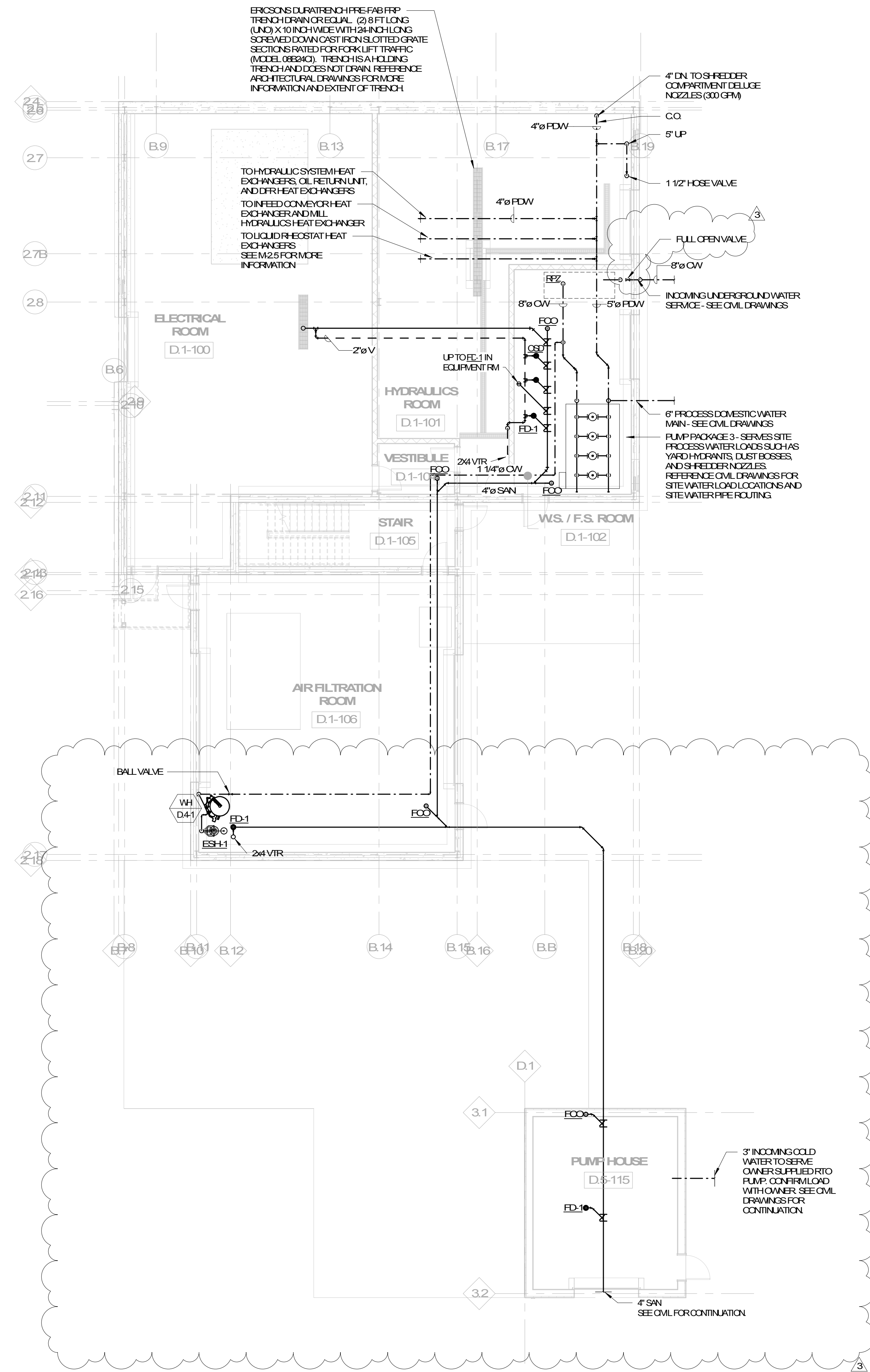
PROJECT:  
**GENERAL III, LLC**  
**STRUCTURE C - NON-FERROUS BUILDINGS**  
 11551 S. AVENUE O  
 CHICAGO, IL., 60617

#	DATE	ISSUE
3	06/22/2020	REVISION TO PERMIT
2	01/06/2020	ISSUE FOR BID
1	09/27/2019	ISSUE FOR PERMIT REVIEW

**NON-FERROUS BUILDING FIRE PROTECTION PLAN**

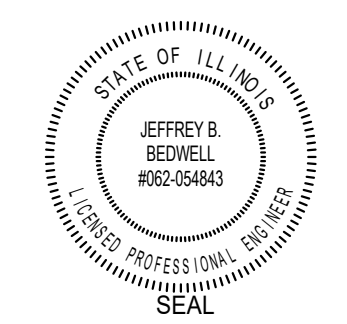
PROJECT #: 7563.01	DATE: 06/22/20
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**FP-1.1**



1ST FLOOR SHREDDER PLUMBING  
 PLAN  
 1/8" = 1'-0"

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PROJECT:  
**GENERAL III, LLC**  
**STRUCTURE D - SHREDDER BUILDING**  
 11551 S. AVENUE O  
 CHICAGO, IL, 60617

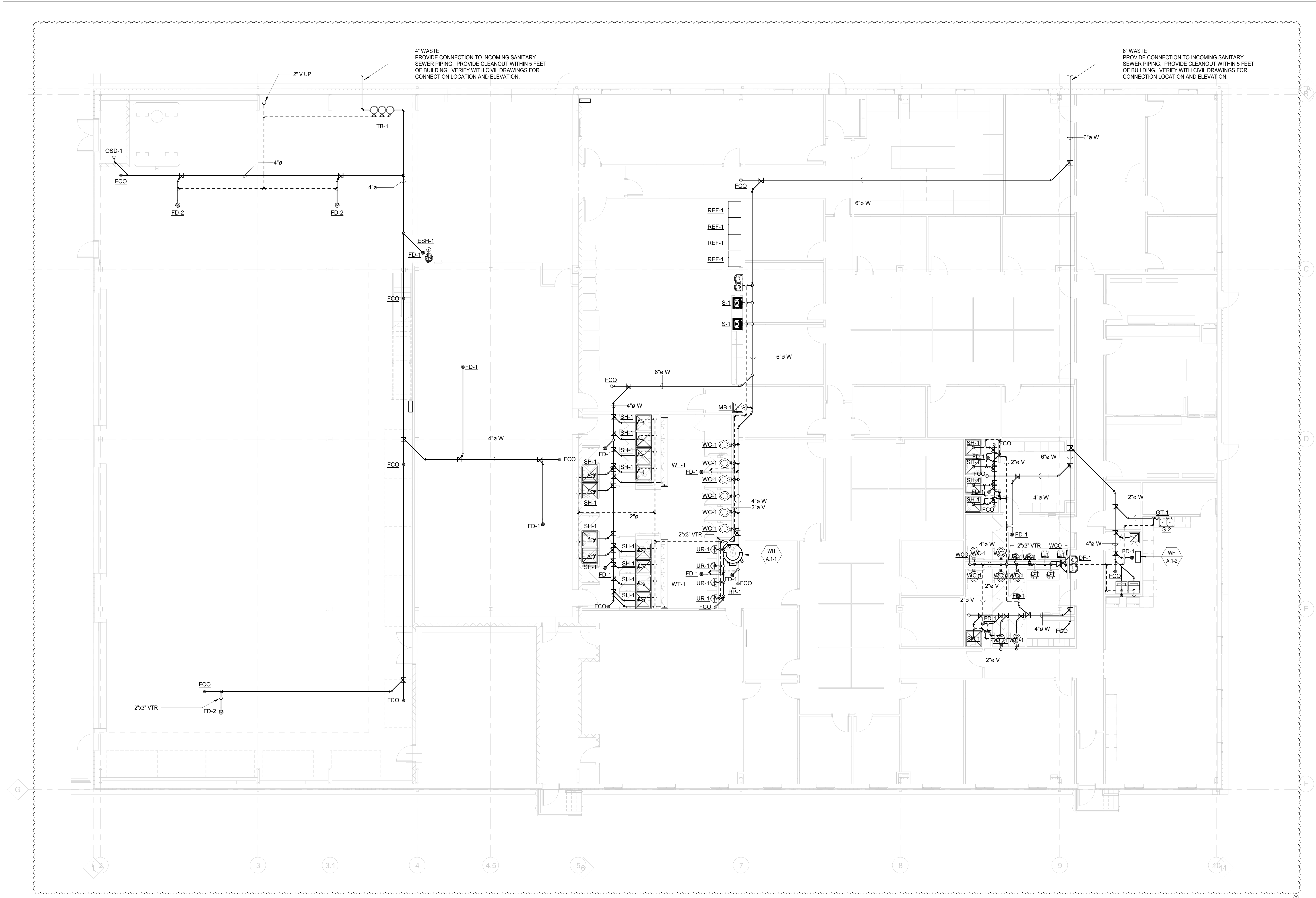
3	06/22/2020	ISSUE FOR PERMIT REVISION
2	01/06/2020	ISSUE FOR BID
1	09/27/2019	ISSUE FOR PERMIT REVIEW
#	DATE	ISSUE

**1ST FLOOR SHREDDER PLUMBING PLANS**

PROJECT #	DATE
7563.01	07/24/19

**P-1.1**

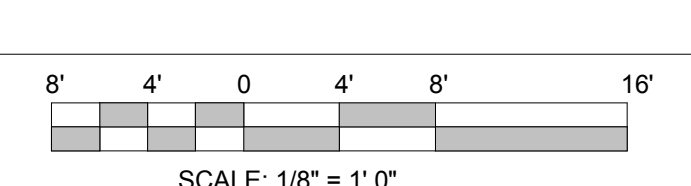




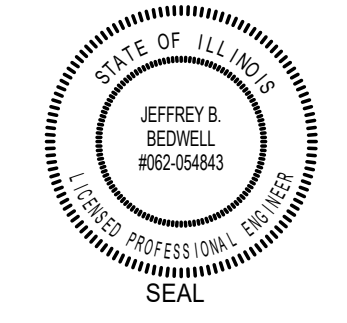
4" WASTE  
 PROVIDE CONNECTION TO INCOMING SANITARY  
 SEWER PIPING. PROVIDE CLEANOUT WITHIN 5 FEET  
 OF BUILDING. VERIFY WITH CIVIL DRAWINGS FOR  
 CONNECTION LOCATION AND ELEVATION.

6" WASTE  
 PROVIDE CONNECTION TO INCOMING SANITARY  
 SEWER PIPING. PROVIDE CLEANOUT WITHIN 5 FEET  
 OF BUILDING. VERIFY WITH CIVIL DRAWINGS FOR  
 CONNECTION LOCATION AND ELEVATION.

1 PLUMBING SANITARY WASTE AND VENT  
 PLAN  
 1/8" = 1'-0"



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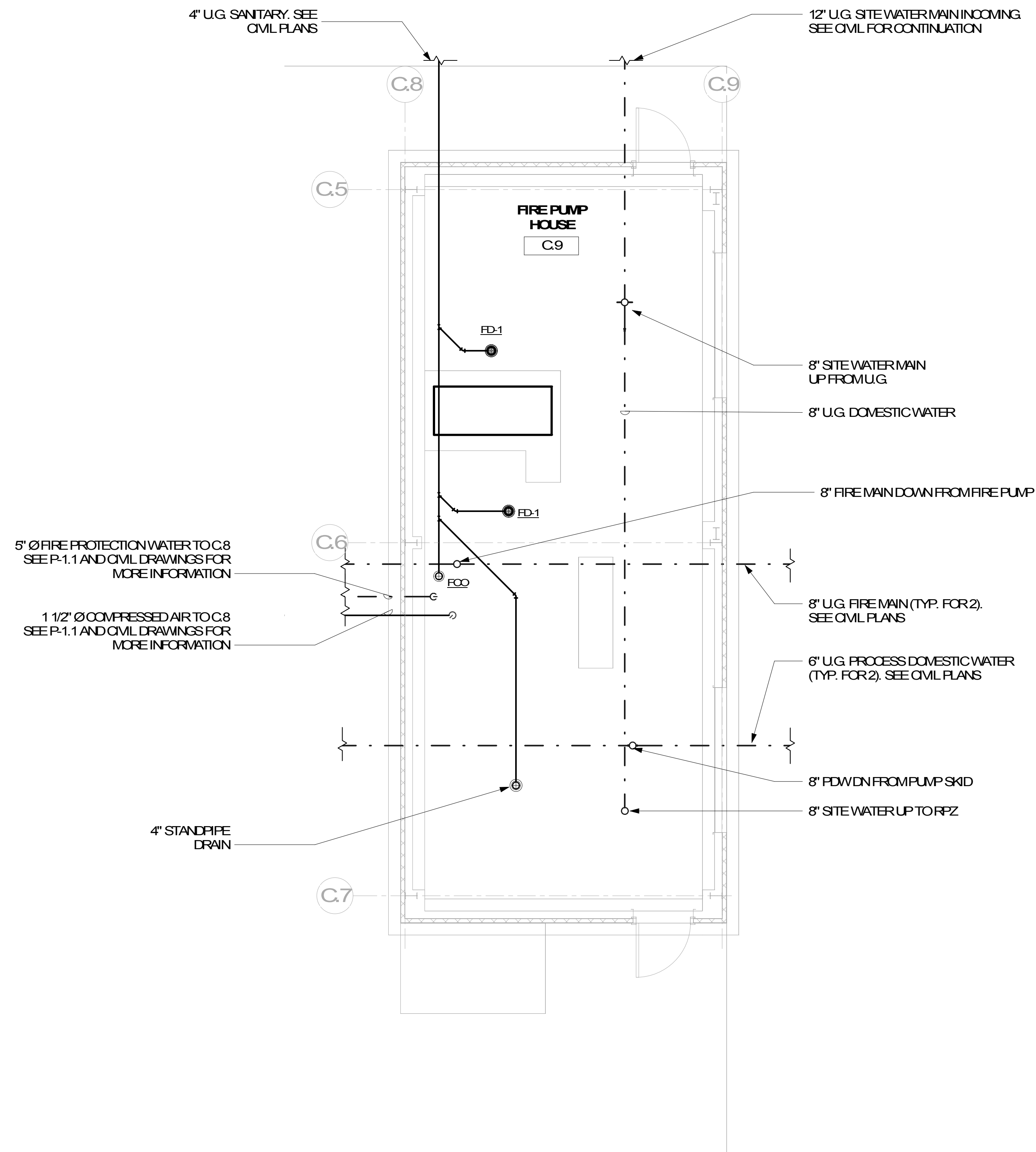
PROJECT:  
**GENERAL III, LLC**  
**STRUCTURE A - OFFICE / MAINTENANCE**  
 11551 S. AVENUE O  
 CHICAGO, IL., 60617

#	DATE	ISSUE
3	06/30/2020	REVISION TO PERMIT
1	07/16/2019	ISSUE FOR PERMIT REVIEW

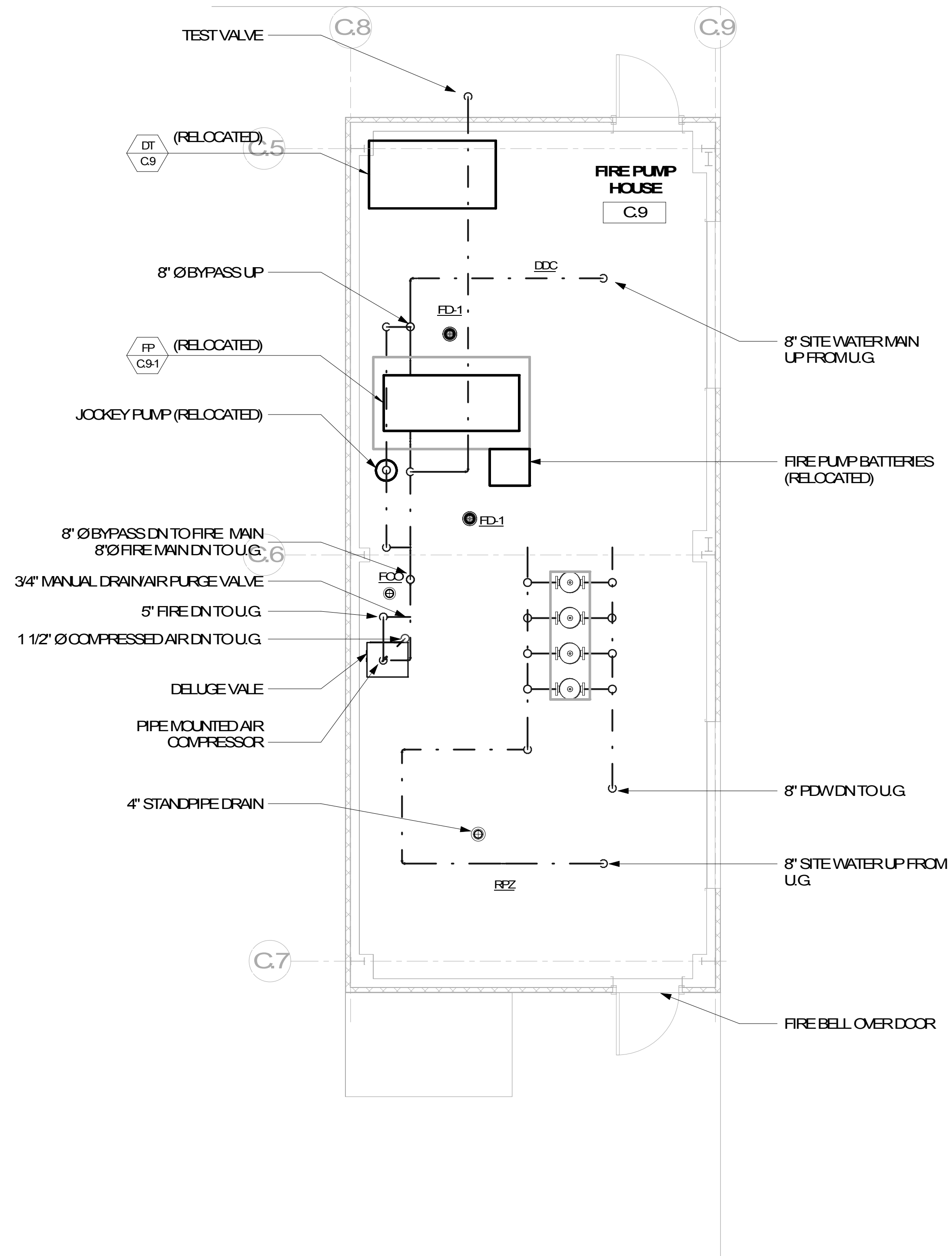
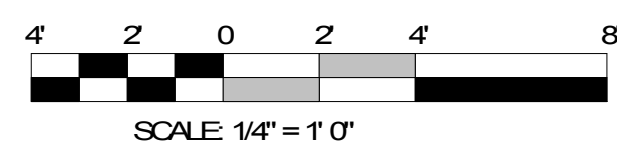
**PLUMBING SANITARY WASTE AND VENT PLAN**

PROJECT #: 7563 DATE: 06-30-2020

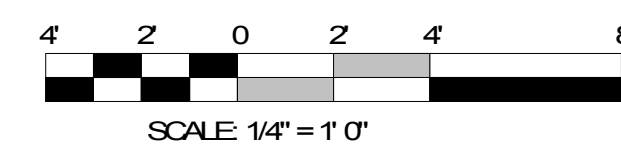
**P-1.1**



② C.9 FIRE PUMP HOUSE UNDERGROUND  
PLUMBING  
1/4" = 1'-0"

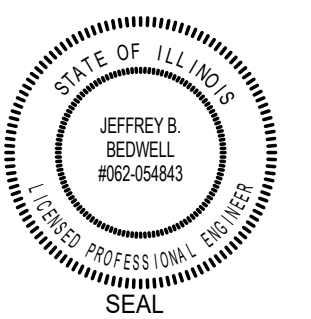


① C.9 FIRE PUMP HOUSE ABOVE GROUND  
PLUMBING  
1/4" = 1'-0"



③ KEY PLAN PLUMBING C.9  
1" = 80'-0"

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PROJECT:  
**GENERAL III, LLC**  
STRUCTURE C - NON-FERROUS BUILDINGS  
11551 S. AVERLE O  
CHICAGO, IL., 60617

#	DATE	ISSUE
3	06/22/2020	REVISION TO PERMIT

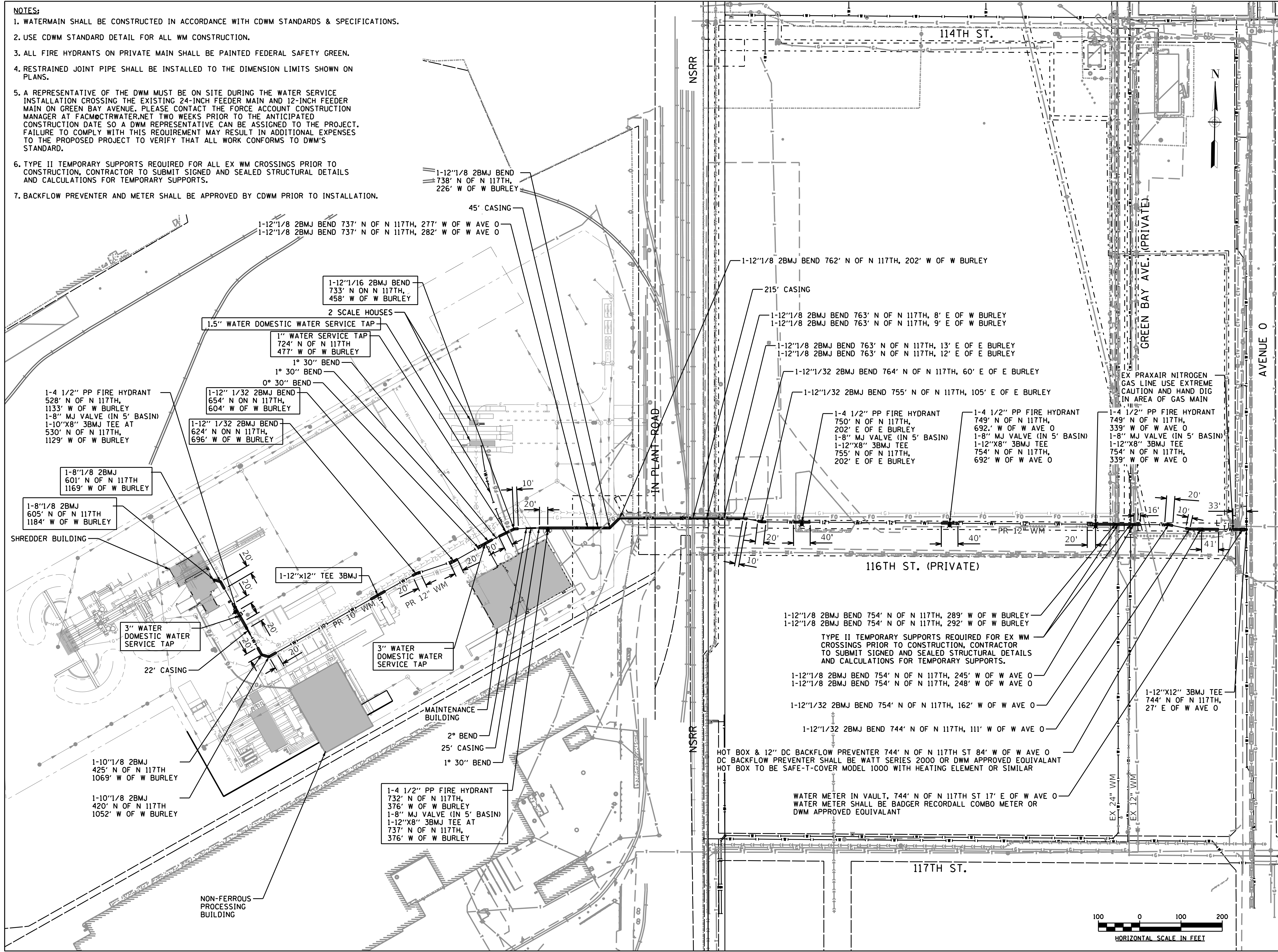
**FIRE PUMP HOUSE PLUMBING PLANS**

PROJECT #	DATE
7563.01	07/24/19

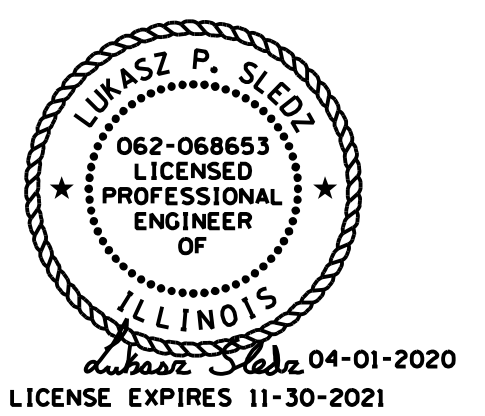
**P-12**

**NOTES:**

1. WATERMAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH CDWM STANDARDS & SPECIFICATIONS.
2. USE CDWM STANDARD DETAIL FOR ALL WM CONSTRUCTION.
3. ALL FIRE HYDRANTS ON PRIVATE MAIN SHALL BE PAINTED FEDERAL SAFETY GREEN.
4. RESTRAINED JOINT PIPE SHALL BE INSTALLED TO THE DIMENSION LIMITS SHOWN ON PLANS.
5. A REPRESENTATIVE OF THE DWM MUST BE ON SITE DURING THE WATER SERVICE INSTALLATION CROSSING THE EXISTING 24-INCH FEEDER MAIN AND 12-INCH FEEDER MAIN ON GREEN BAY AVENUE. PLEASE CONTACT THE FORCE ACCOUNT CONSTRUCTION MANAGER AT FACM@CTRWATER.NET TWO WEEKS PRIOR TO THE ANTICIPATED CONSTRUCTION DATE SO A DWM REPRESENTATIVE CAN BE ASSIGNED TO THE PROJECT. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN ADDITIONAL EXPENSES TO THE PROPOSED PROJECT TO VERIFY THAT ALL WORK CONFORMS TO DWM'S STANDARD.
6. TYPE II TEMPORARY SUPPORTS REQUIRED FOR ALL EX WM CROSSINGS PRIOR TO CONSTRUCTION, CONTRACTOR TO SUBMIT SIGNED AND SEALED STRUCTURAL DETAILS AND CALCULATIONS FOR TEMPORARY SUPPORTS.
7. BACKFLOW PREVENTER AND METER SHALL BE APPROVED BY CDWM PRIOR TO INSTALLATION.



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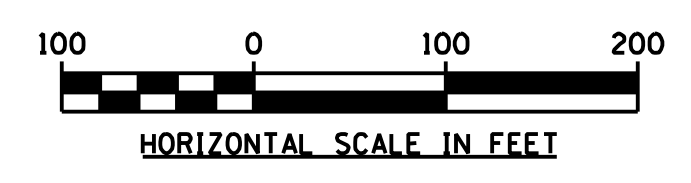
PROJECT:  
**GENERAL III**  
 11554 S AVENUE O  
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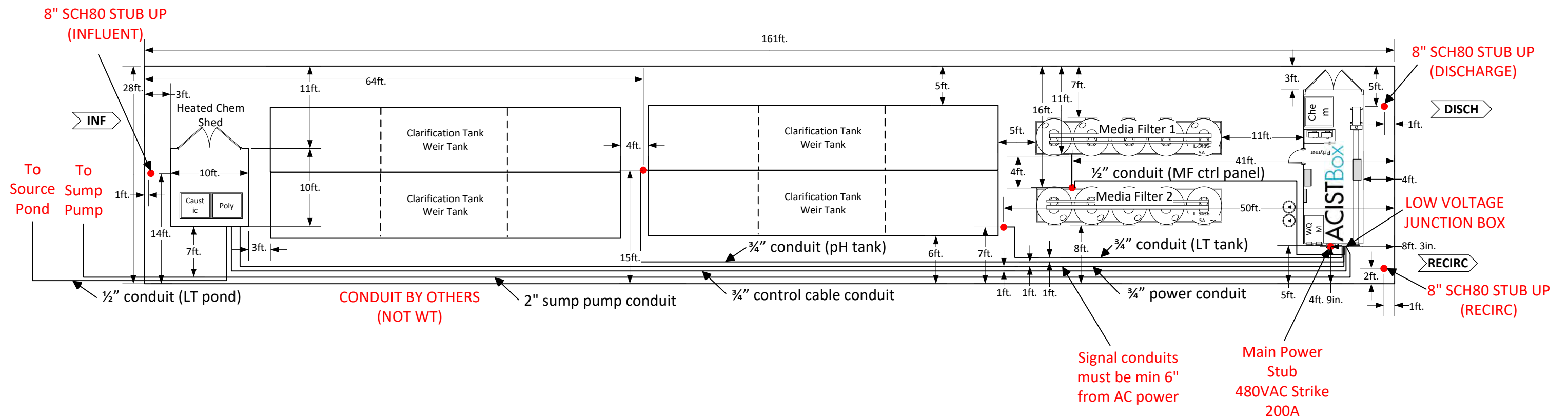
WATER MAIN PLAN

PROJECT #: 7563 DATE: 04-01-2020

C-4.1



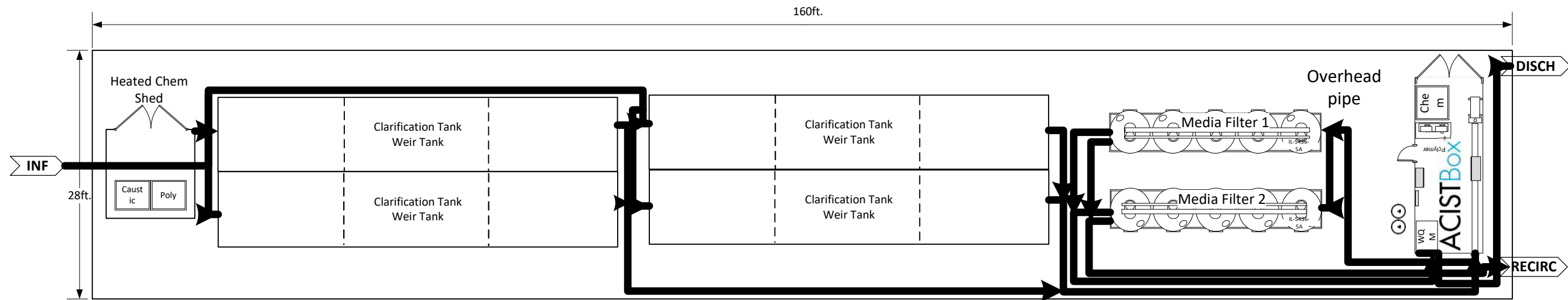
REVISIONS			
REV	DESCRIPTION	DATE	INITIALS
1	AB725 Layout	06/01/20	KOH
2	Revision 2	06/04/20	KOH
3	Revision 3	06/08/20	KOH
4	Revision 4	06/23/20	NAM



REVIEWED		BDM		PG SIZE	DWG NO	PROJECT NAME	REV
REVIEWED		NAM		11x17		General III AB725 Site Layout	4
APPROVED		K-18	EH	ISSUED	6/23/2020	SCALE	3/32"=1' 0"
						SHEET	1 OF 2

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REVISIONS			
REV	DESCRIPTION	DATE	INITIALS
1	AB725 Layout	06/01/20	KOH
2	Revision 2	06/04/20	KOH
3	Revision 3	06/08/20	KOH
4	Revision 4	06/23/20	NAM



REVIEWED		BDM		PG SIZE	DWG NO	PROJECT NAME	REV
REVIEWED		NAM		DRAWN	11x17		General III AB725 Site Layout
APPROVED		EH	ISSUED	SCALE	3/32"=1' 0"	SHEET	2 OF 2

**K-19**

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**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

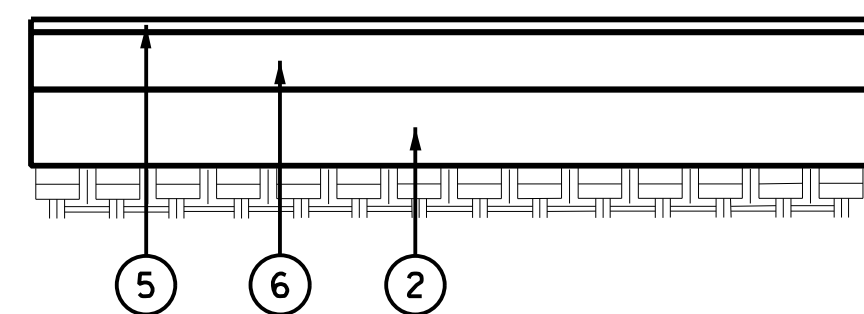
**Attachment L  
Pavements**



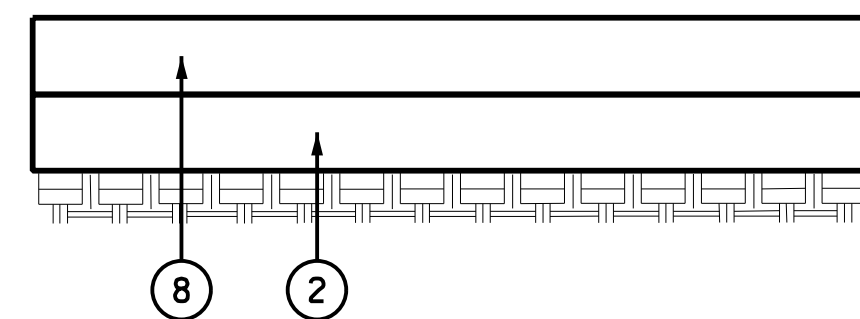


**PCC PAVEMENT JOINT NOTES:**

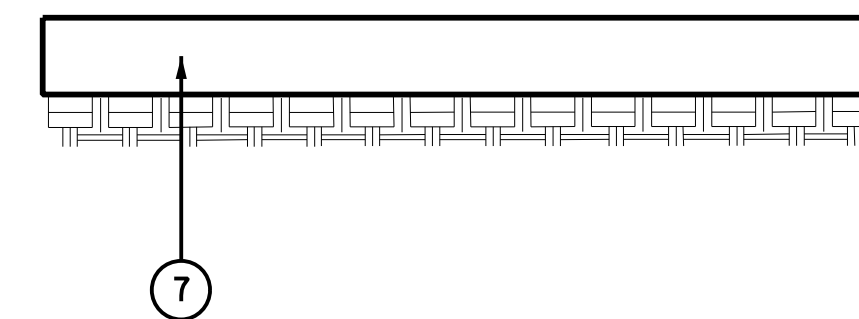
1. CONTRACTOR SHALL PROVIDE PAVEMENT JOINTING PLAN TO BE REVIEWED BY ENGINEER THAT ARE IN CONFORMANCE WITH STANDARD DETAILS.
2. PAVEMENT JOINTS SHALL BE IN ACCORDANCE WITH IDOT STANDARD DETAIL 420001-09 AND 420111-04. SEE SHEET C-9.16 AND C-9-17 FOR STANDARD DETAIL. ALL JOINTS SHALL BE TRANSVERSE CONTRACTION JOINTS AS SHOWN ON DETAIL ON STANDARD DETAIL 420001-09.
3. ALL JOINTS SHALL BE SPACED NO MORE THAN 15 FEET APART. 18 INCH LONG DOWEL BARS AT 12 INCH CENTERS SHALL BE PLACED AT JOINTS. DOWELS SHALL BE NO LESS THAN 5 INCHES HIGH (6 INCHES PREFERRED).
4. CONCRETE SLABS SHALL NOT BE LESS THAN 2 FEET IN WIDTH.
5. JOINT ANGLES SHALL BE GRATER THAN 60° (90° IS PREFERRED) USE "DOG LEG" JOINTS THROUGH CURVE RADIUS POINTS.
6. ISOLATION JOINTS SHALL BE PROVIDED FOR ALL STRUCTURES INCLUDING ALL PROPOSED BUILDINGS. CONTRACTOR SHALL COORDINATE LOCATION OF OWNER PROVIDED STRUCTURES WITH VENDERS IN FIELD, AND PROVIDE ISOLATION JOINTS FOR THESE STRUCTURES.



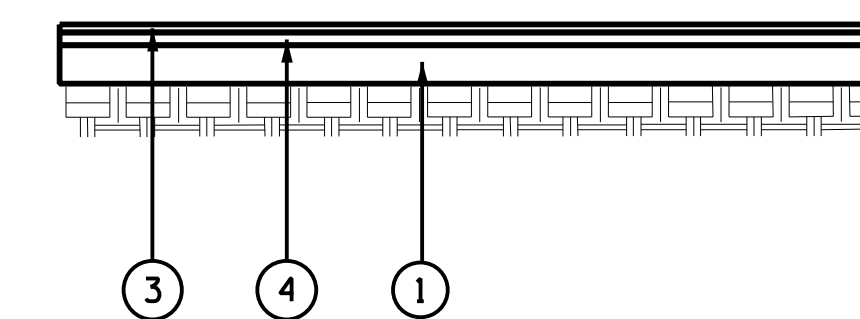
ASPHALT  
PAVEMENT SECTION



CONCRETE  
PAVEMENT SECTION



GRAVEL  
PAVEMENT SECTION



DETENTION POND  
PAVEMENT SECTION

**PROPOSED LEGEND:**

- ① SUBBASE GRANULAR MATERIAL TYPE B, 6"
- ② SUBBASE GRANULAR MATERIAL TYPE B, 12"
- ③ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N 501 1/2"
- ④ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5, N80 2"
- ⑤ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5, MIX "F", N80 2"
- ⑥ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5, N80 8 3/4"
- ⑦ GRAVEL PAVEMENT 12"
- ⑧ CONCRETE PAVEMENT 9", 12", 14"

**MIX DESIGN TABLE**

ITEM	DESCRIPTION	MIX TYPE	AC TYPE	DESIGN AIR VOIDS	MIN. LIFT THICKNESS
POND ASPHALT	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50 1 1/2"	IL 9.5mm	PG 64-22	4% @ 50 GYR.	1 1/2"
	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5, N80 2"	SMA 12.5mm	SBS/SBR PG 76-22	3.5% @ 80 GYR.	2"
SITE ASPHALT	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5, MIX "F", N80 2"	SMA 12.5mm	SBS/SBR PG 76-22	3.5% @ 80 GYR.	2"
	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, 12.5, N80 8 3/4"	SMA 12.5mm	SBS/SBR PG 76-22	3.5% @ 80 GYR.	2"

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT MIXTURES IS 112 LBS/SQ YD/IN.

ASPHALT MATERIAL AND INSTALLATION SHALL BE IN CONFORMANCE WITH SECTION 402, 403, 406 OF THE IDOT SSRBC  
 CONCRETE MATERIAL AND INSTALLATION SHALL BE IN CONFORMANCE WITH SECTION 420, 424 OF THE IDOT SSRBC  
 SUBBASE GRANULAR MATERIAL (COARSE AGGREGATE) SHALL BE IN CONFORMANCE WITH SECTION 1004 OF THE IDOR SSRBC

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PROJECT:  
**GENERAL III**  
 11554 S AVENUE O  
 CHICAGO, IL 60617

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TYPICAL SECTION  
 PAVEMENT DESIGN

PROJECT #: 7563 DATE: 04-01-2020

C-1.7

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**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment M  
Utilities**



CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	PANEL SHRED-DP-4	3"	600V CABLE	
2	SHRED-XFMR-6	2"	600V CABLE	
3	SHRED-MCC-4	4"	600V CABLE	
4	SHRED-MCC-4	4"	600V CABLE	
5	SHRED-MCC-4	4"	600V CABLE	
6	SHRED-MCC-4	4"	600V CABLE	
7	SHRED-MCC-4	4"	600V CABLE	
8	SHRED-MCC-4	4"	600V CABLE	
9	SPARE	4"	N/A	NOTE 6
10	SPARE	3"	N/A	NOTE 6
11	FIBER	2"	FIBER OPTIC	
12	BACKUP FIBER	2"	FIBER OPTIC	NOTE 13

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	PANEL SHRED-SP-2A	2"	600V CABLE	
2	PANEL SHRED-DP-3	3"	600V CABLE	
3	PANEL SHRED-DP-3	3"	600V CABLE	
4	SHRED-MCC-3	4"	600V CABLE	
5	SHRED-MCC-3	4"	600V CABLE	
6	SHRED-MCC-3	4"	600V CABLE	
7	SHRED-MCC-3	4"	600V CABLE	
8	SHRED-MCC-3	4"	600V CABLE	
9	SHRED-MCC-3	4"	600V CABLE	
10	SPARE	4"	N/A	NOTE 6
11	FIBER	2"	FIBER OPTIC	
12	BACKUP FIBER	2"	FIBER OPTIC	NOTE 13

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	PANEL BGE-DP	3"	600V CABLE	
2	SPARE	3"	N/A	NOTE 6
3	FIBER	2"	FIBER OPTIC	
4	BACKUP FIBER	2"	FIBER OPTIC	NOTE 13

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	LIGHTING	2"	600V CABLE	
2	SPARE	2"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	LIGHTING	2"	600V CABLE	
2	DUSTBOSS	2"	600V CABLE	
3	SPARE	2"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	PANEL WTR-DP	4"	600V CABLE	
2	LIGHTING	2"	600V CABLE	
3	SPARE	4"	N/A	NOTE 6
4	FIBER	2"	FIBER OPTIC	
5	BACKUP FIBER	2"	FIBER OPTIC	NOTE 13

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	LIGHTING	2"	600V CABLE	
2	SPARE	2"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	PANEL SHRED-SP-1B	2"	600V CABLE	
2	SPARE	2"	N/A	NOTE 6
3	FIBER	2"	FIBER OPTIC	
4	BACKUP FIBER	2"	FIBER OPTIC	NOTE 13

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	LIGHTING	2"	600V CABLE	
2	DUSTBOSS	2"	600V CABLE	
3	SPARE	2"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	LIGHTING	2"	600V CABLE	
2	DUSTBOSS	2"	600V CABLE	
3	SPARE	2"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	PANEL TWS-DP	4"	600V CABLE	
2	PANEL TWS-DP	4"	600V CABLE	
3	SPPANEL TWS-SDP	3"	600V CABLE	
4	SPARE	4"	N/A	
5	SPARE	4"	N/A	
6	MAIN FIBER TRUNK	2"	FIBER OPTIC	NOTE 3
7	BACKUP FIBER	2"	FIBER OPTIC	NOTE 3

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	SHAKER MOTOR	4"	600V	
2	SHRED-XFMR-1-2-3	4"	15 KV CABLE	
3	SHRED-XFMR-1-2-3	4"	15 KV CABLE	
4	SPARE	4"	N/A	NOTE 6
5	SPARE	4"	N/A	NOTE 6 & 11
6	MAIN FIBER TRUNK	2"	FIBER OPTIC	
7	BACKUP FIBER	2"	FIBER OPTIC	NOTE 11

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	PANEL NF-PP-2D	2"	600V CABLE	
2	SPARE	2"	N/A	NOTE 6
3	FIBER	2"	FIBER OPTIC	
4	BACKUP FIBER	2"	FIBER OPTIC	NOTE 13

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	LIGHT POLE	2"	600V CABLE	
2	SPARE	2"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	LIGHTING	2"	600V CABLE	
2	SPARE	2"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	PANEL NF-PP-2B	2"	600V CABLES	
2	SPARE	2"	N/A	NOTE 6
3	FIBER	2"	FIBER OPTIC	
4	BACKUP FIBER	2"	FIBER OPTIC	NOTE 13

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	PANEL NF-PP-2C	2"	600V CABLE	
2	SPARE	2"	N/A	NOTE 6
3	FIBER	2"	FIBER OPTIC	
4	BACKUP FIBER	2"	FIBER OPTIC	NOTE 13

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	PANEL NF-PP-2A	2"	600V CABLE	
2	SPARE	2"	N/A	NOTE 6
3	MAIN FIBER TRUNK	2"	FIBER OPTIC	
4	BACKUP FIBER	2"	FIBER OPTIC	NOTE 6

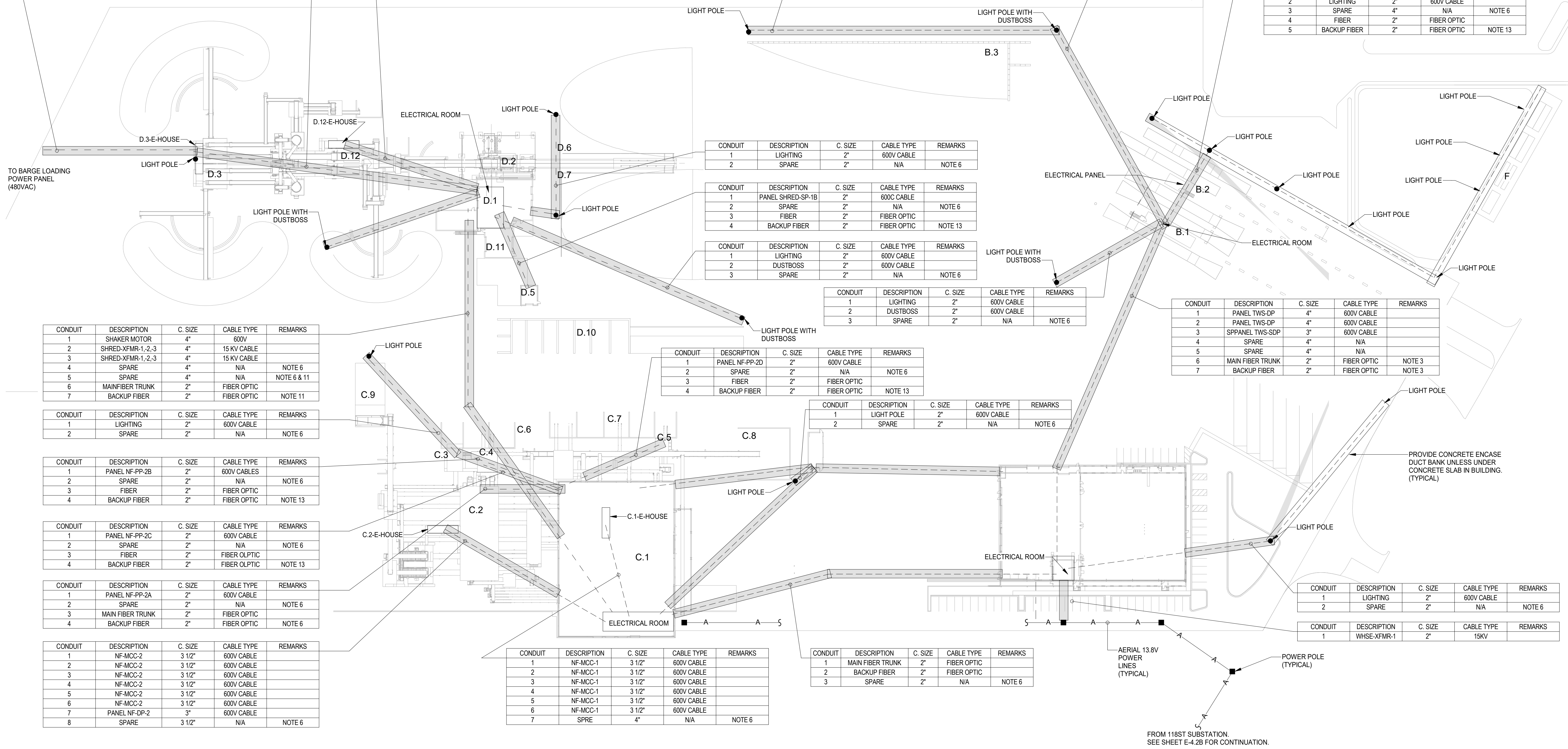
CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	NF-MCC-2	3 1/2"	600V CABLE	
2	NF-MCC-2	3 1/2"	600V CABLE	
3	NF-MCC-2	3 1/2"	600V CABLE	
4	NF-MCC-2	3 1/2"	600V CABLE	
5	NF-MCC-2	3 1/2"	600V CABLE	
6	NF-MCC-2	3 1/2"	600V CABLE	
7	PANEL NF-DP-2	3"	600V CABLE	
8	SPARE	3 1/2"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	NF-MCC-1	3 1/2"	600V CABLE	
2	NF-MCC-1	3 1/2"	600V CABLE	
3	NF-MCC-1	3 1/2"	600V CABLE	
4	NF-MCC-1	3 1/2"	600V CABLE	
5	NF-MCC-1	3 1/2"	600V CABLE	
6	NF-MCC-1	3 1/2"	600V CABLE	
7	SPRE	4"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	MAIN FIBER TRUNK	2"	FIBER OPTIC	
2	BACKUP FIBER	2"	FIBER OPTIC	
3	SPARE	2"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	LIGHTING	2"	600V CABLE	
2	SPARE	2"	N/A	NOTE 6

CONDUIT	DESCRIPTION	C. SIZE	CABLE TYPE	REMARKS
1	WHSE-XFMR-1	2"	15KV	



1 ELECTRICAL POWER SITE PLAN  
1" = 60'-0"

REMARKS:

- VERTICAL DISTANCES ARE NOT INCLUDED IN ESTIMATIONS. DESIGNED LOCATION OF ELECTRICAL EQUIPMENT ROOM IS STILL IN PROGRESS AND FINAL LOCATION OF EQUIPMENT MAY CHANGE AS THE SITE IS DEVELOPED. ASSUMES 90°C CABLES
- ASSUMES 90°C CABLES
- GENERAL III TO PROVIDE TYPE (SM OR MM) AND # OF FIBERS (12F / 24F / ETC) AND NUMBER OF FIBER CABLES (1 X 12F / 2 X 12F / ETC)
- ASSUMES LIGHTS ARE EATON STREETWORKS @ 640 W EACH - 4 USED IN THIS CIRCUIT (2,560W)
- NOT USED
- GENERAL III HAS NOT PROVIDED DIRECTION IF SPARE CONDUITS ARE TO BE INSTALLED. ESTIMATOR TO PRICE WITH AND WITHOUT SPARES FOR EACH CONFIGURATION
- PVC SCH 40 DUCTBANK ENCASED IN CONCRETE MEETING HS-20 AASTO RATING
- ASSUMES PUMP STATION IS 50 HP (53,976 W) MOTOR + LIGHTING (640W X 4)
- VOLTAGE DROP FOR LONGER RUNS HAS NOT BEEN ACCOUNTED FOR AT THIS TIME. MAY CAUSE CABLE SIZE TO BUMP UP
- NOT USED
- BACKUP FIBER MAY NOT BE REQUIRED IF INNERDUCT IS USED IN CONJUNCTION WITH FIBER CONDUIT.
- DUCTBANK ASSUMES 3" MINIMUM CONCRETE COVER IN ALL DIRECTIONS (TOP / BOTTOM / EACH SIDE). THE NECESSITY OF REBAR IN THE DUCTBANK TO BE DETERMINED BY STRUCTURAL.
- GENERAL IIIQW MAY REQUEST INNERDUCTS TO BE INSTALLED FOR BACKUP FIBER CONDUIT.

**KNIGHT**  
Engineers & Architects  
Knight E/A, Inc.  
221 N. LaSalle Street  
Suite 300  
Chicago, IL 60601  
Phone: (312) 577-3300  
knightea.com

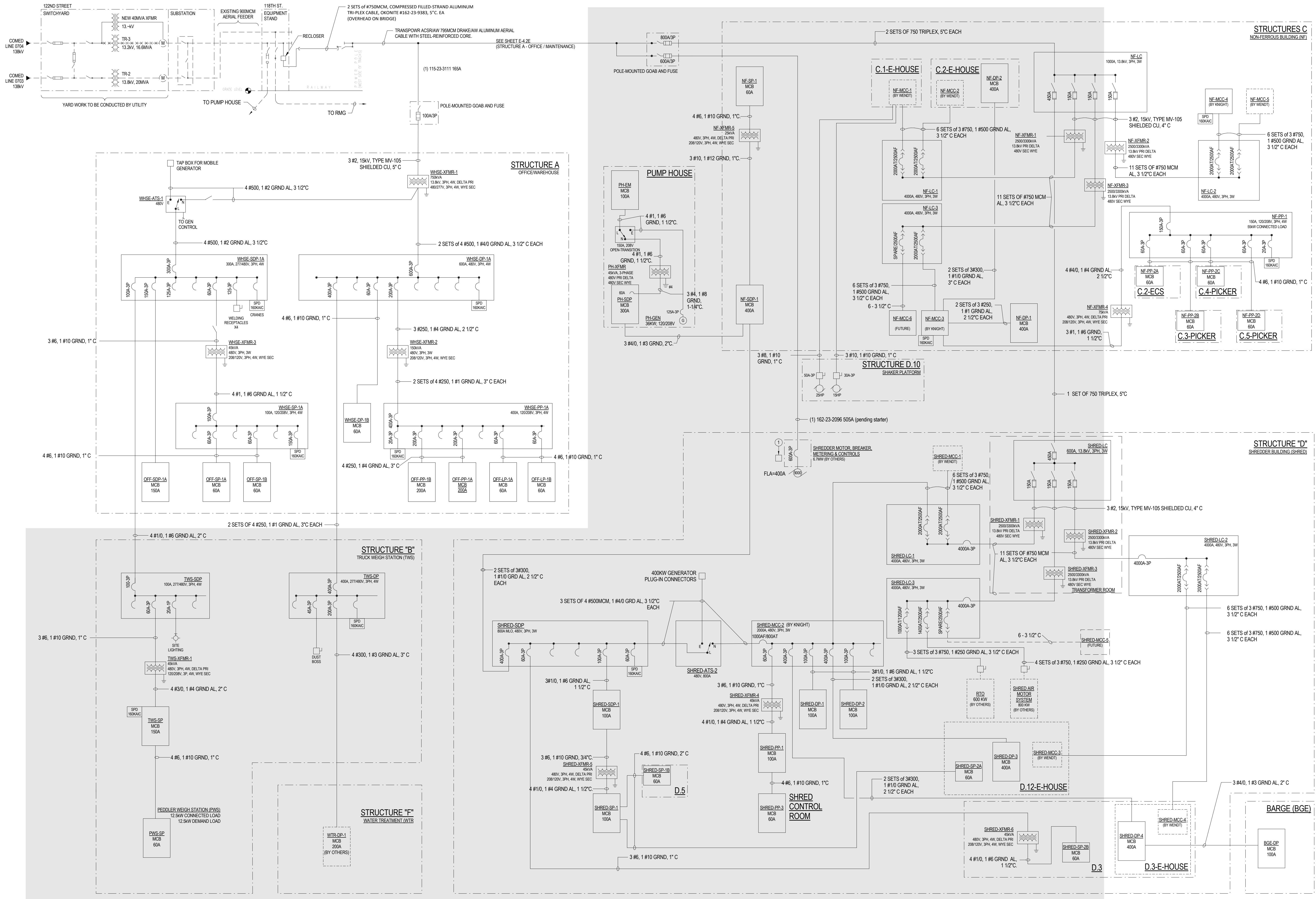


PROJECT:  
**GENERAL III, LLC**  
STRUCTURE A - OFFICE / MAINTENANCE  
11600 S. BURLY AVE  
CHICAGO, IL 60617

#	DATE	ISSUE
3	06/26/2020	REVISION TO PERMIT
2	04/01/2020	ISSUE FOR PERMIT REVIEW
1	01/10/2020	ISSUE FOR BID

SITE - POWER PLAN

PROJECT #:	DATE:
7563	12/04/18



**LEGEND**

- STRUCTURE/BUILDING AREA
- PROVIDED BY OTHERS
- EXISTING EQUIPMENT

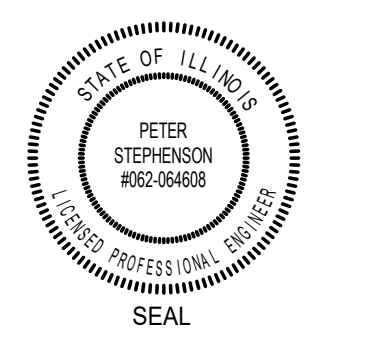
**KEYNOTES**

- ADDITIVE ALTERNATE: VERIFY WITH MANUFACTURER ALLOWANCE REQUIRED A FOR STATIC SYNCHRONOUS COMPENSATOR (CAPACITOR) CAPABLE OF SUPPLYING UP TO 7.15MVAR, OR AS REQUIRED BY SHREDDER MANUFACTURER, COORDINATE WITH UTILITY FOR POWER FLOW AND TRANSIENT STABILITY.

**GENERAL ONE-LINE NOTES**

- CONTRACTOR SHALL PROVIDE ARC FLASH LABELS CLEARLY VISIBLE ON EQUIPMENT PER NEC ARTICLE 110.16
- GREYED-OUT AREAS SHOWN FOR REFERENCE.
- CABLES WITH THIS NOTE TO BE COPPER @ 90°C.
- FEEDERS 100A AND/OR HIGHER TO BE ALUMINUM.

**KNIGHT**  
 Engineers & Architects  
 Knight E/A, Inc.  
 221 N. LaSalle Street  
 Suite 300  
 Chicago, IL 60601  
 Phone: (312) 577-3300  
 knightea.com

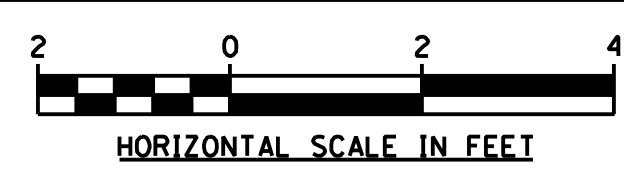
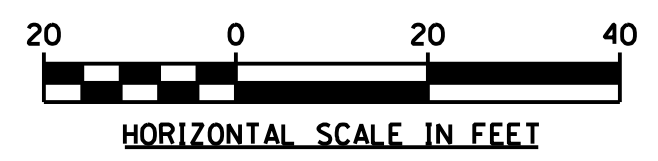
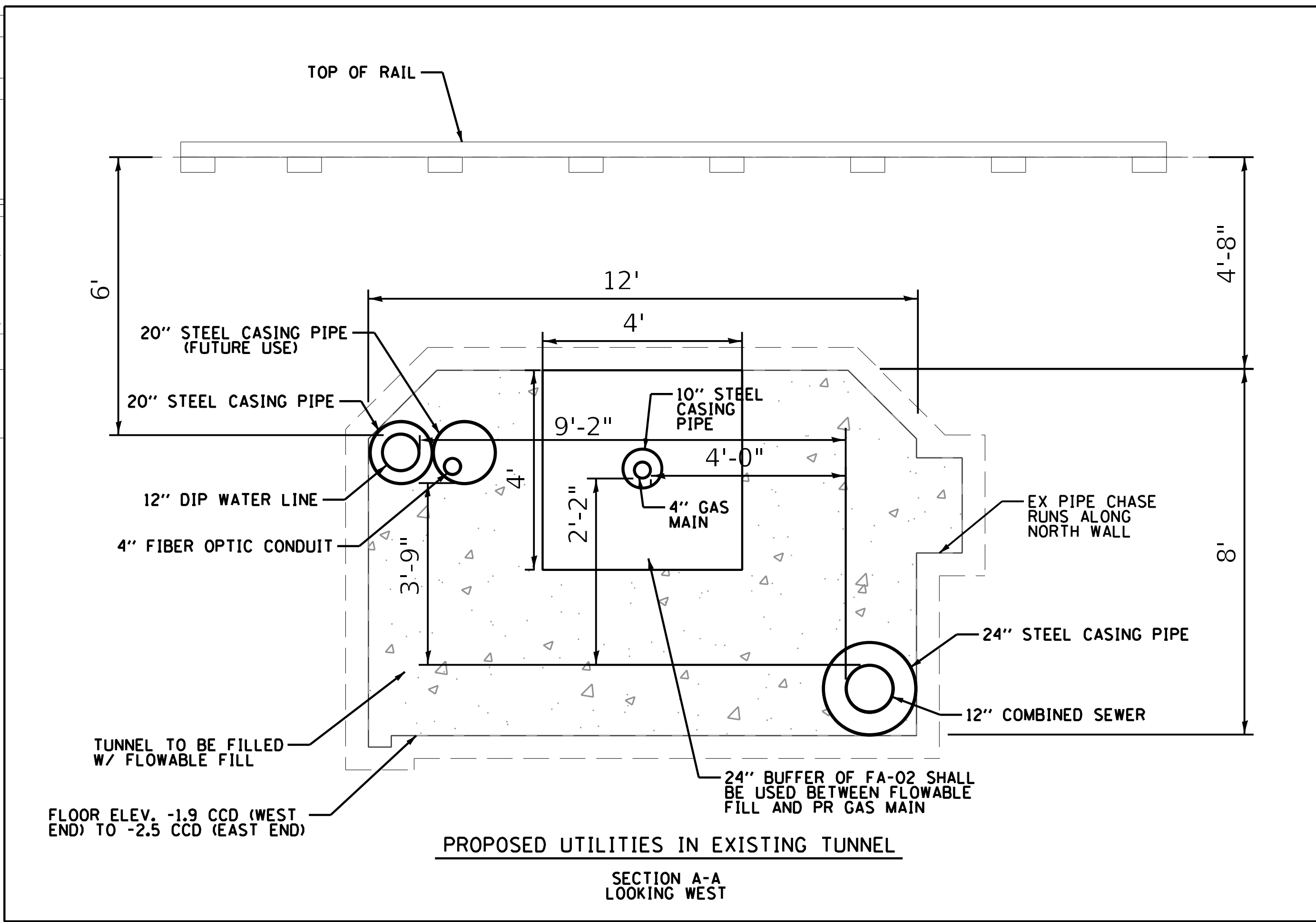
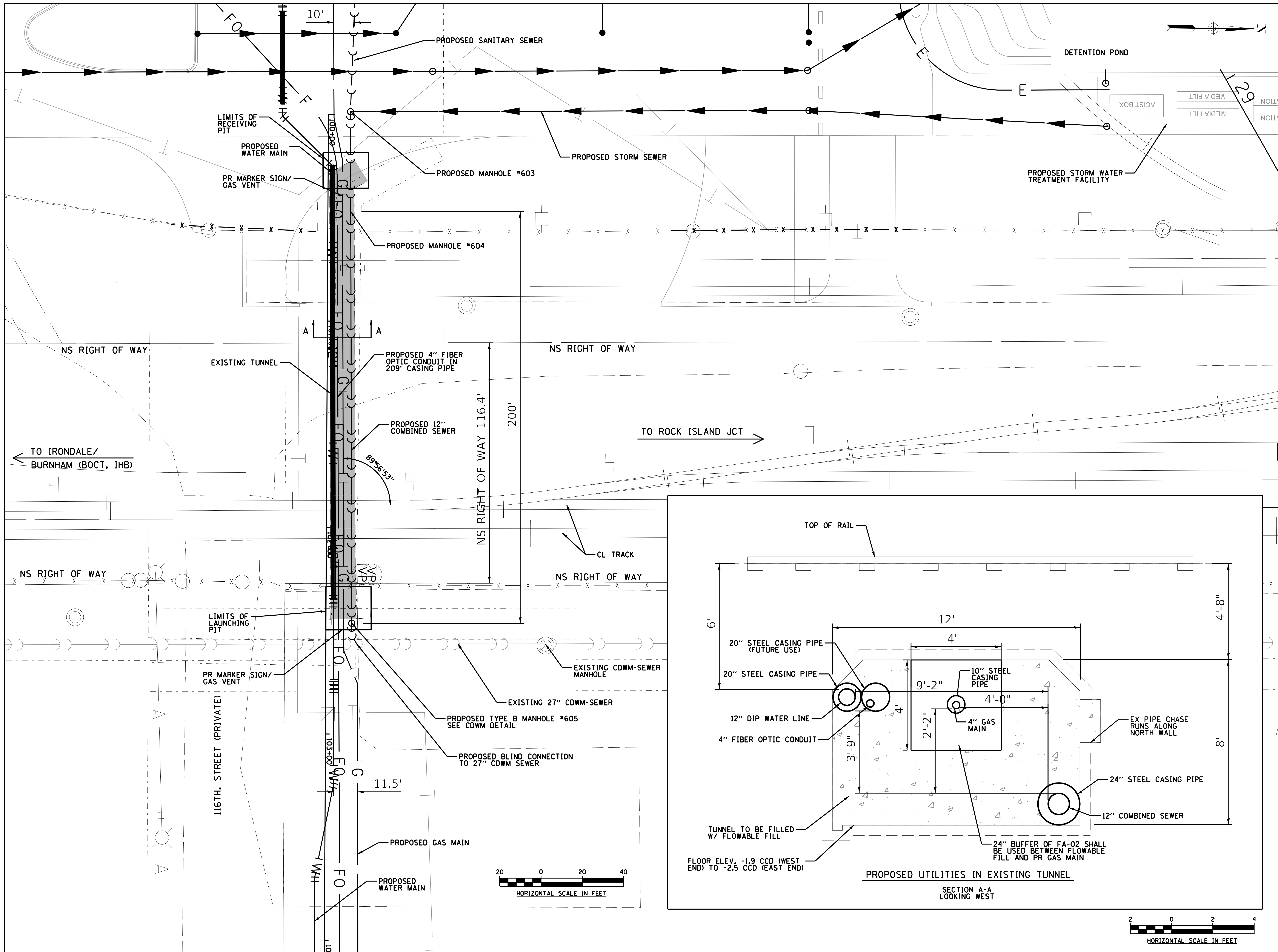


**PROJECT:**  
**GENERAL III, LLC**  
**STRUCTURE A - OFFICE / MAINTENANCE**  
 11600 S. BURLY AVE  
 CHICAGO, IL 60617

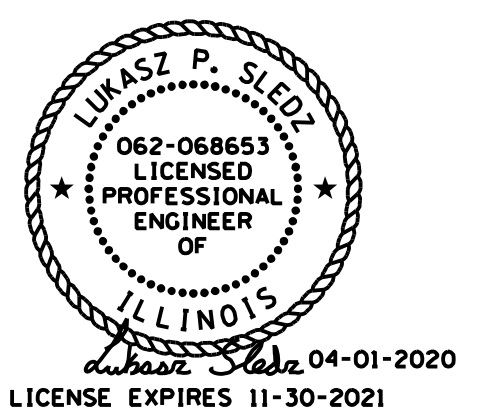
#	DATE	ISSUE
3	06/28/2020	REVISION TO PERMIT
2	04/10/2020	ISSUE FOR PERMIT REVIEW
1	01/10/2020	ISSUE FOR BID
	09/13/2019	PLAN REVIEW RESPONSE
	07/16/2019	ISSUE FOR PERMIT REVIEW

**ONE-LINE DIAGRAM**

PROJECT #:	DATE:
7563	7/16/2019



**KNIGHT**  
 Engineers & Architects  
 Knight E/A, Inc.  
 221 North LaSalle Street  
 Suite 300  
 Chicago, IL 60601  
 Phone: (312) 577-3300  
 knightea.com



PROJECT:  
**GENERAL III**  
 11554 S AVENUE O  
 CHICAGO, IL 60617

2 4-1-2020 ISSUE FOR REVISION TO PERMIT  
 1 01-10-2020 ISSUE FOR BID

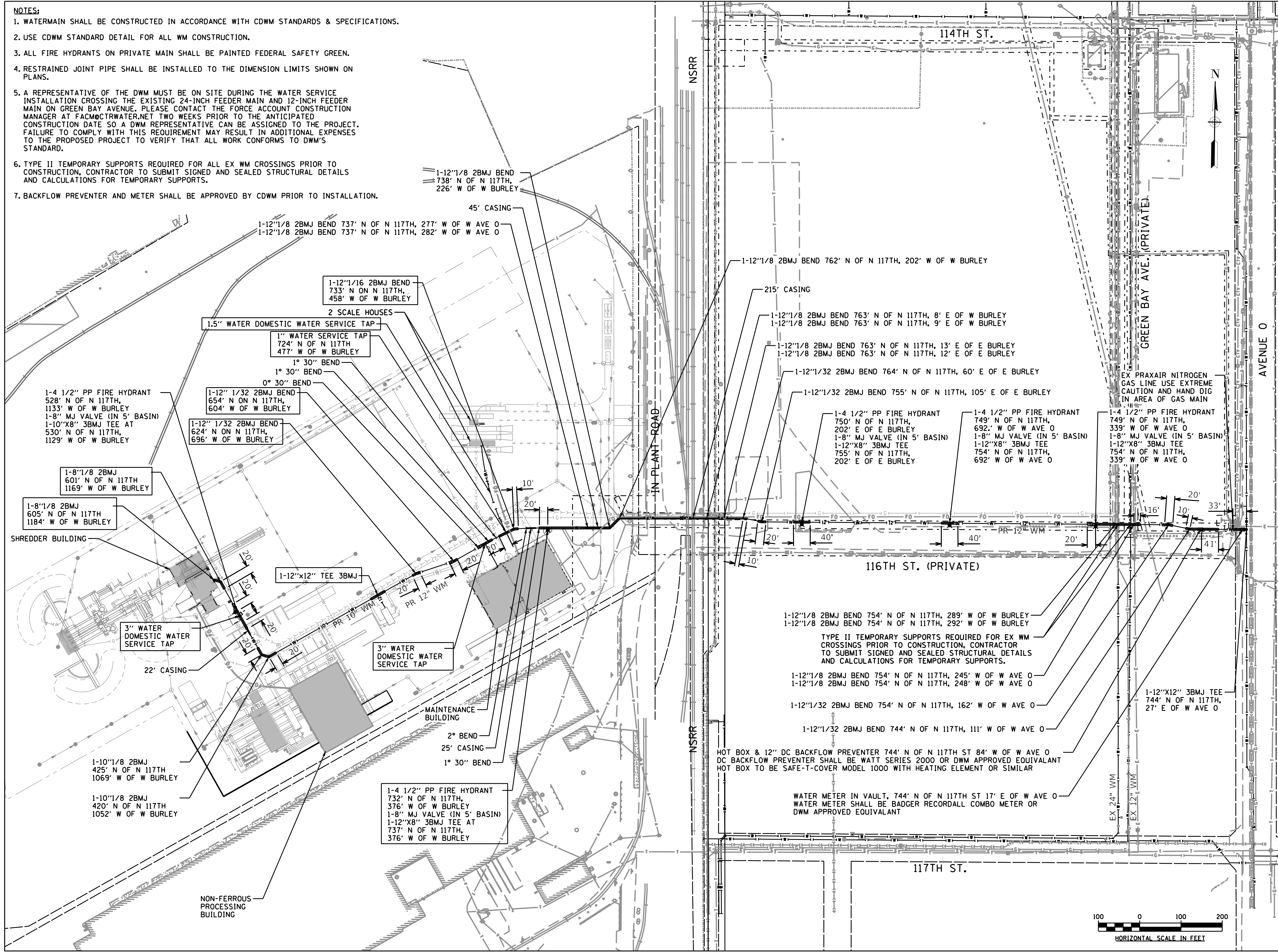
EXISTING TUNNEL  
 UTILITY DETAIL

PROJECT #: 7563 DATE: 04-01-2020

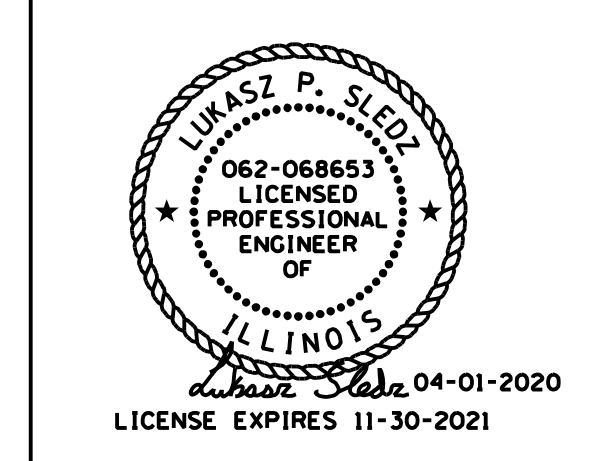
C-9.1

**NOTES:**

1. WATERMAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH CDWM STANDARDS & SPECIFICATIONS.
2. USE CDWM STANDARD DETAIL FOR ALL WM CONSTRUCTION.
3. ALL FIRE HYDRANTS ON PRIVATE MAIN SHALL BE PAINTED FEDERAL SAFETY GREEN.
4. RESTRAINED JOINT PIPE SHALL BE INSTALLED TO THE DIMENSION LIMITS SHOWN ON PLANS.
5. A REPRESENTATIVE OF THE DWM MUST BE ON SITE DURING THE WATER SERVICE INSTALLATION CROSSING THE EXISTING 24-INCH FEEDER MAIN AND 12-INCH FEEDER MAIN ON GREEN BAY AVENUE. PLEASE CONTACT THE FORCE ACCOUNT CONSTRUCTION MANAGER AT FACM@CTRWATER.NET TWO WEEKS PRIOR TO THE ANTICIPATED CONSTRUCTION DATE SO A DWM REPRESENTATIVE CAN BE ASSIGNED TO THE PROJECT. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY RESULT IN ADDITIONAL EXPENSES TO THE PROPOSED PROJECT TO VERIFY THAT ALL WORK CONFORMS TO DWM'S STANDARD.
6. TYPE II TEMPORARY SUPPORTS REQUIRED FOR ALL EX WM CROSSINGS PRIOR TO CONSTRUCTION, CONTRACTOR TO SUBMIT SIGNED AND SEALED STRUCTURAL DETAILS AND CALCULATIONS FOR TEMPORARY SUPPORTS.
7. BACKFLOW PREVENTER AND METER SHALL BE APPROVED BY CDWM PRIOR TO INSTALLATION.



**KNIGHT**  
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 221 North LaSalle Street  
 Suite 300  
 Chicago, IL 60601  
 Phone: (312) 577-3300  
 knightea.com



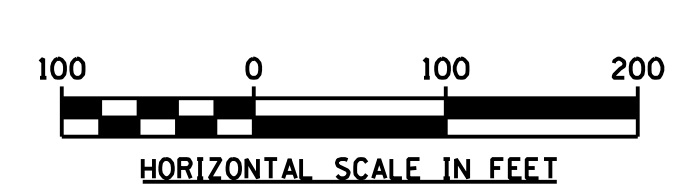
PROJECT:  
**GENERAL III**  
 11554 S AVENUE O  
 CHICAGO, IL 60617

2 4-1-2020 ISSUE FOR REVISION TO PERMIT  
 1 01-10-2020 ISSUE FOR BID

WATER MAIN PLAN

PROJECT #: 7563 DATE: 04-01-2020

C-4.1







**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment N  
Water Sources**



**FIRE PROTECTION NOTES**

- ALL FIRE PROTECTION WORK TO BE EXECUTED IN ACCORDANCE WITH THE MOST RECENT VERSION OF ALL APPLICABLE LOCAL, STATE, NATIONAL CODES, INCLUDING NFPA AND LOCAL BUILDING CODE AS WELL AS THE DRAWINGS. MOST STRINGENT REQUIREMENT OF ANY OF THE ABOVE SHALL APPLY.
- OBTAIN AND PAY FOR ALL PERMITS AND INSPECTION FEES AS REQUIRED FOR THIS WORK.
- VISIT THE SITE TO VERIFY THE FULL EXTENT OF THE WORK, AND THE EXACT LOCATION, ELEVATION, ETC., OF EXISTING PIPING. COORDINATE ALL NEW WORK WITH THE EXISTING WORK AND THE RESPECTIVE TRADES.
- PROVIDE ALL REQUIRED CUTTING, DRILLING AND PATCHING FOR THE NEW WORK. NO STRUCTURAL WORK TO BE CUT WITHOUT PREVIOUS APPROVAL OF THE ARCHITECT. PATCH ALL DISTURBED WALLS, CEILINGS AND FLOORS TO MATCH ADJACENT SURFACES AS NECESSARY AND/OR REQUIRED.
- ALL MATERIALS REQUIRED FOR THE NEW WORK SUCH AS PIPING, SLEEVES, SPRINKLER HEADS, SUPPORTS, ETC., SHALL BE SIMILAR TO EXISTING BUILDING STANDARDS AND SHALL BE INSTALLED IN A SIMILAR MANNER.
- FIREPROOF AND SEAL ALL OPENINGS IN FLOORS, WALLS AND PARTITIONS IN ORDER TO MAINTAIN AND IN ACCORDANCE WITH U.L. FIRE STOP RATINGS.
- MAINTAIN MINIMUM CLEARANCE OF 18" INCHES OR GREATER BETWEEN SPRINKLER HEAD DEFLECTOR AND THE TOP OF STORAGE.
- ALL NEW WORK TO BE TESTED UNDER OPERATING CONDITIONS AS REQUIRED. ALL NEW WORK FOUND TO BE DEFICIENT BY THE ARCHITECT OR CODE AUTHORITY SHALL BE CORRECTED AND RETESTED AS NECESSARY FOR ACCEPTANCE WITHOUT ANY COST TO THE OWNER.
- GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF WORK BY THE OWNER.
- THIS CONTRACTOR IS RESPONSIBLE FOR SLEEVE INSTALLATION AND SEALING AIR TIGHT PENETRATIONS INTO THE COMPUTER ROOM.
- SPRINKLER PIPE SIZING SHALL BE HYDRAULICALLY CALCULATED.
- SUBMIT FIRE PROTECTION PRODUCT AND LAYOUT SHOP DRAWINGS SIGNED APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND OWNER'S INSURANCE AGENCY, TO THE ARCHITECT/ENGINEER FOR THEIR REVIEW PRIOR TO FABRICATION AND INSTALLATION OF THE FIRE PROTECTION SYSTEM.
- FIRE PROTECTION CONTRACTOR TO COORDINATE WITH THE LATEST ARCHITECTURAL REFLECTED CEILING PLANS AS DETERMINED BY THE ARCHITECT AND SUBMIT AS-BUILT DRAWINGS UPON COMPLETION FOR APPROVAL.
- FIRE EXTINGUISHER (FE): SHALL BE "POTTER-ROEMER" #3010, 10# ABC MULTI-PURPOSE DRY CHEMICAL U/L-FM, EXTINGUISHER, RED ENAMEL FINISH.
- CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AUTOMATIC PRE-ACTION SPRINKLER SYSTEM FOR COMPUTER AND EXISTING UPS ROOM. DOUBLE INTERLOCK CONCEALED TYPE HEADS SHALL BE FURNISHED AND INSTALLED FOR ALL CEILING AREAS. REFER TO THE ARCHITECTURAL REFLECTED CEILING DRAWINGS TO DETERMINE TYPES OF SUSPENDED CEILING AREAS AND EXPOSED CEILING AREAS. UPRIGHT HEADS SHALL BE PROVIDED FOR NON-CEILING AREAS. THE ENTIRE SYSTEM SHALL BE IN FULL COMPLIANCE WITH NFPA 13 AND THE LOCAL FIRE MARSHALS REQUIREMENTS.
- NO BRANCH PIPE TO A SPRINKLER HEAD SHALL BE LESS THAN 1".
- CONTRACTOR SHALL MEET AND COORDINATE WITH ALL TRADES BEFORE PREPARING SHOP DWGS.
- THESE FIRE PROTECTION DRAWINGS ARE TO BE USED AS A GUIDE FOR THE FIRE PROTECTION CONTRACTOR IN COORDINATING BETWEEN TRADES. THEY ARE NOT MEANT TO BE SHOP DWGS. OR EVEN REFLECT AN ENTIRE AUTOMATIC SPRINKLER SYSTEM. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING COMPLETE SHOP DWGS. AND HYDRAULIC CALCULATIONS TO THE ARCHITECT AND TO THE LOCAL CODE AUTHORITIES FOR PERMIT.

**FIRE PROTECTION SYMBOL LIST**

- EXISTING CONCEALED PENDENT SPRINKLER HEAD
- ⊙ EXISTING EXPOSED UPRIGHT OR PENDENT SPRINKLER
- ✕ EXISTING HEAD TO BE REMOVED
- NEW CONCEALED PENDENT SPRINKLER HEAD
- ⊙ NEW UPRIGHT OR PENDENT SPRINKLER
- WC "WATER CURTAIN" SPRINKLER HEAD. TYCO MODEL. WS OR EQUAL, INSTALLED PER MANUFACTURERS REQUIREMENTS
- ▶ SIDE WALL SPRINKLER
- ✕ ⊙ RELOCATED UPRIGHT OR PENDENT SPRINKLER
- ✕ ● RELOCATED CONCEALED PENDENT SPRINKLER HEAD
- EXISTING SP MAIN PIPE TO REMAIN
- EXISTING BRANCH PIPE TO REMAIN
- ✕ ✕ ✕ EXISTING PIPING TO BE REMOVED
- NEW PIPING
- ⊙ FSP FIRE STANDPIPE
- ⊙ CSP COMB. FIRE STANDPIPE/SPRINKLER RISER
- ⊙ FDV FIRE DEPT. STANDPIPE & HOSE VALVE
- ⊙ FE FIRE EXTINGUISHER
- ⊙ FEC FIRE EXTINGUISHER CABINET
- FEC/FHV COMBINATION FIRE EXTINGUISHER & FIRE HOSE VALVE CABINET
- ⊙ → POINT OF NEW CONNECTION TO EXISTING
- (E) EXISTING TO REMAIN
- (ED) EXISTING TO BE REMOVED/DEMOLISHED
- (ER) EXISTING DEVICE RELOCATED FROM ADJACENT POSITION, U.N.O.
- (EC) EXISTING J-BOX/CONDUIT TO BE CAPPED
- (EM) EXISTING TO BE MODIFIED

NOTE: ALL SYMBOLS MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO DRAWINGS.

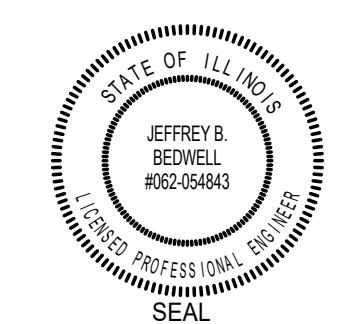
**FIRE PUMP SCHEDULE**

ITEM TAG	MANUFACTURER AND MODEL	GPM	PRESSURE (PSI)	ELECTRICAL DATA			NOTES:
				VOLT-PH-HZ	HP OR NOTED	RPM	
FP	OWNER PROVIDED	1,500	100	120/3/60	157	1780	-
JP	OWNER PROVIDED	10	110	480/3/60	2	3500	-

REMARKS:

- POTENTIAL 35 FEET STORAGE IN ONE OF THE NON-FERROUS BUILDINGS IS THE HIGHEST HAZARD.
- PER CBC 9(15-16-600) & 3(13-56-17) THE OCCUPANCY CLASS IS CLASS H WITH CEILING HEIGHT OVER 14 FEET: SPRINKLERS: 0.25 GPM/SQ FT OVER 2,500 SQ FT DUE TO THE SYSTEM BEING DRY PIPE - COVERAGE MUST BE INCREASED BY 30% TO 3,250 SQ FT SPRINKLER DESIGN FLOW RATE: 0.25 X 3,250 = 813 GPM "OVERAGE FACTOR" FOR INCREASE IN SYSTEM PRESSURE DUE TO FRICTION LOSS = 20% 813 GPM X 120% = 976 GPM
- PER NFPA 13 TABLE 11.2.3.1.2: HOSE DEMAND = 250 GPM.
- REQUIRED FIRE PUMP FLOW: 976 GPM + 250 GPM = 1,226 GPM. NEXT NOMINAL FIRE PUMP SIZE IS RATED AT 1,500 GPM.

**KNIGHT** Engineers & Architects  
 Knight E/A, Inc.  
 221 North LaSalle Street  
 Chicago, IL 60601  
 Phone: (312) 744-6595  
 knightea.com



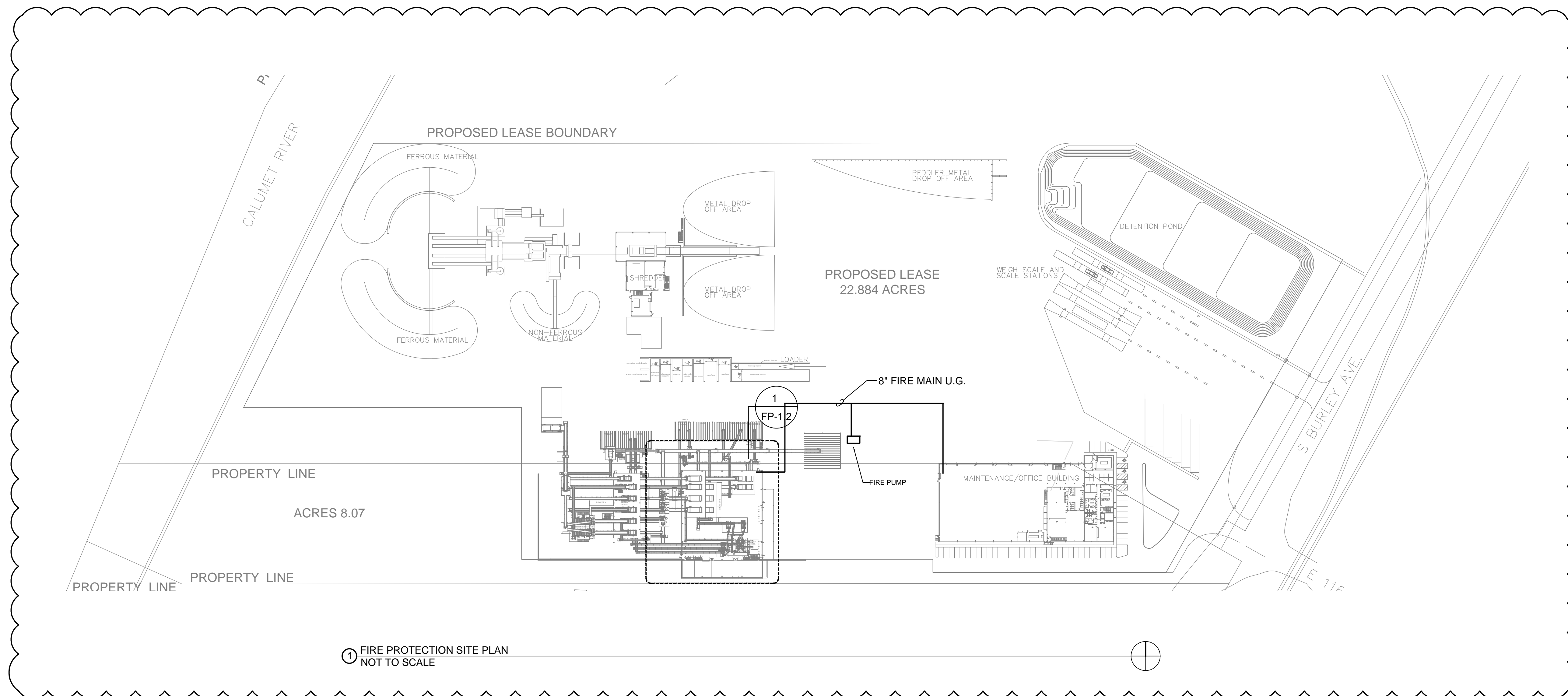
PROJECT:  
**GENERAL III, LLC**  
**STRUCTURE C - NON-FERROUS BUILDINGS**  
 11551 S AVENUE C  
 CHICAGO, IL 60617

3	06/22/2020	REVISION TO PERMIT
2	01/06/2020	ISSUE FOR BID
1	09/27/2019	ISSUED FOR PERMIT REVIEW
#	DATE	ISSUED FOR

**FIRE PROTECTION NOTES AND SYMBOLS**

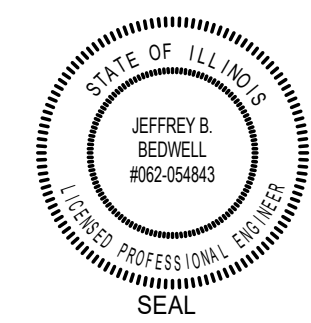
PROJECT #: 7563 DATE: 06-22-20

**FP-0.1**



1 FIRE PROTECTION SITE PLAN  
NOT TO SCALE

**KNIGHT**  
Engineers & Architects  
Knight E/A, Inc.  
221 North LaSalle Street  
Chicago, IL 60601  
Phone: (312) 744-6595  
knightea.com



PROJECT:  
**GENERAL III, LLC**  
**STRUCTURE C - NON-FERROUS BUILDINGS**  
11551 S AVENUE O  
CHICAGO, IL 60617

3	06/22/2020	REVISION TO PERMIT
2	01/06/2020	ISSUE FOR BID
1	09/27/2019	ISSUED FOR PERMIT REVIEW
#	DATE	ISSUED FOR

**FIRE PROTECTION SITE PLAN**

PROJECT #:	DATE:
7563	06-22-20

**FP-3.1**



**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment O  
Structures and Fixed Equipment**



### **3.10.3 Devices, Apparatus and Processes**

#### **Health and safety plan that includes all job hazard assessments and a description of the OSHA-required safety devices or procedures employed for all processing equipment (i.e. guarding, lockout devices, etc.)**

General III, LLC is committed to conducting all operations in a safe and responsible manner that respects the environment, our employees, customers and the community where we operate. We will comply with all applicable regulatory requirements at a minimum, and implement programs and processes to achieve greater protection, where appropriate.

General III, LLC will work to eliminate unsafe conditions and actions in our workplaces so as to prevent the occurrence of all work-related injuries, illnesses and property losses.

Employees are responsible for performing their job activities in a safe and reasonable manner in accordance with local safety rules, any safety related instructions given to them, and the training they have received. The training an employee receives is specific to his/her job responsibilities and may include, but not be limited to: Control of Hazardous Energy, Powered Industrial Truck Operation, Hazard Communication and Right to Know, Hearing Conservation, Machine Guarding, etc.

General III, LLC will conduct job safety analyses of its operations at the commencement of its operations and will use the information attained during this process to improve its Health and Safety Plan.

#### **Description and results of any OSHA-required worker air and noise exposure sampling for Facility activities (i.e. welding, torching, etc.)**

In accordance with OSHA 29 CFR 1910.95, Occupational Noise, General III, LLC, will conduct a noise monitoring evaluation at the commencement of its operations to implement an accurate Hearing Conservation Program.

General III, LLC, will conduct an air monitoring evaluation at the commencement of its operations to determine if it needs to implement OSHA 29 CFR 1910.134; Respiratory Protection Program.

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# City of Chicago

## Department of Buildings - Permits

# Building Permit

**Permit:** 100849993

**Issued:** 2/25/20

**For Work at:** 11554 S AVENUE O

**Description of permitted work:**

DIRECT DEVELOPER SERVICES - NEW CONSTRUCTION 2 STORY ACCESSIBLE OFFICE SPACE FOR THE ADMINISTRATIVE OPERATIONS. THE OFFICE FUNCTION IS CONNECTED AT THE WEST TO THE MAINTENANCE FUNCTION CLASSIFIED AS HAZARDOUS USE AS IT HOUSES THE PARTS STORAGE FOR THE EQUIPMENT ON THE CAMPUS AS WELL AS BEING THE VEHICLE SERVING AREA. STRUCTURE IS ACCESSORY USES TO SERVE AN EXISTING CLASS IV-4 RECYCLING FACILITY.

**In an Emergency Contact:** RAY SOWA JR. (773)491-3157

**Owner:**

HAL TOLIN  
11551 S AVENUE O  
CHICAGO IL 60617  
(773)382-0123 x

**Contractor:**

THE GEORGE SOLLITT CONSTRUCTIO  
790 N CENTRAL AVE  
WOOD DALE IL 60191-  
(630)860-7333 x

Lori E Lightfoot  
Mayor

Judith Frydland  
Commissioner

Fees Paid and Application Submitted for Review on:	11/20/2019	Total Permit Processing Time: 97 days
Permit Issued on:	2/25/2020	Time for City Review: 33 days
		Time With Applicant for Document Submittal and Corrections: 64 days

Permit must be displayed on job site at all times. Permit is NOT transferable. Plans must be kept on site during construction. Any changes in contractor or deviation from approved plans must be authorized by the Department of Buildings. Permit may be revoked for violation of any of the above provisions and/or all other applicable laws.



0-3



# City of Chicago

## Department of Buildings - Permits

# Building Permit

**Permit:** 100851448

**Issued:** 2/25/20

**For Work at:** 11554 S AVENUE O

**Description of permitted work:**

DIRECT DEVELOPER SERVICES - NEW CONSTRUCTION OF ONE STORY TYPE II - ACCESSORY SCALE HOUSE TO SERVE AN EXISTING CLASS IV-4 RECYCLING FACILITY.

**In an Emergency Contact:** HAL TOLIN (773)382-0123 x

**Owner:**

HAL TOLIN  
11551 S AVENUE O  
CHICAGO IL 60617  
(773)382-0123 x

**Contractor:**

THE GEORGE SOLLITT CONSTRUCTIO  
790 N CENTRAL AVE  
WOOD DALE IL 60191-  
(630)860-7333 x

Lori E Lightfoot  
Mayor

Judith Frydland  
Commissioner

Fees Paid and Application Submitted for Review on:	11/20/2019	Total Permit Processing Time: 97 days
Permit Issued on:	2/25/2020	Time for City Review: 49 days
		Time With Applicant for Document Submittal and Corrections 48 days

Permit must be displayed on job site at all times. Permit is NOT transferable. Plans must be kept on site during construction. Any changes in contractor or deviation from approved plans must be authorized by the Department of Buildings. Permit may be revoked for violation of any of the above provisions and/or all other applicable laws.





# City of Chicago

## Department of Buildings - Permits

# Building Permit

103841

Permit No. 100866826

Issued 03/25/2020

For Work at: 11554 S AVENUE ©

**Description of permitted work:**

- \*DIRECT DEVELOPER SERVICES
- \* NEW CONSTRUCTION - PREFABRICATED METAL FRAME BUILDING BUILDING ON CONCRETE FOUNDATION FOR PROCESS EQUIPMENT; CLASS IV-A RECYCLING FACILITY.

**In an Emergency Contact:** HAL TOLIN (773)382-0123 x

**Owner:**

HAL TOLIN  
11600 S BURLEY AVE  
CHICAGO, IL 60617  
(773)382-0123 x

Lori E. Lightfoot  
Mayor

**Contractor:**

JAMES MCHUGH CONSTRUCTION  
CO  
1737 SOUTH MICHIGAN AVENUE  
CHICAGO, IL 60616-  
(312)986-8000 x

Judith Frydland  
Commissioner

Permit must be displayed on job site at all times. Permit is NOT transferrable. Plans must be kept on site during construction. Any changes in contractor or deviation from approved plans must be approved by the Department of Buildings. Permit may be revoked for violation of any of the above provisions and/or all other applicable laws.





# City of Chicago

## Department of Buildings - Permits

# Building Permit

Permit No. 100873689

Issued 05/08/2020

For Work at: 11554 S AVENUE O

**Description of permitted work:**

\*DIRECT DEVELOPER SERVICES\* NEW CONSTRUCTION BUILDING PERMIT FOR A PROPOSED TWO STORY 9000HP SHREDDER-MOTOR ROOM AND ELECTRICAL ENCLOSURE. THE 2STORY ENCLOSURE IS CONNECTED AT THE NORTH TO THE SHREDDER ENCLOSURE RECYCLING FUNCTION.

**In an Emergency Contact:** HAL TOLIN (773)382-0123 x

**Owner:**

HAL TOLIN  
11600 S BURLEY AVE  
CHICAGO, IL 60617  
(773)382-0123 x

*Lori E. Lightfoot*

Lori E. Lightfoot  
Mayor

**Contractor:**

JAMES MCHUGH CONSTRUCTION  
CO  
1737 SOUTH MICHIGAN AVENUE  
CHICAGO, IL 60616-  
(312)986-8000 x

*Judith Frydland*

Judith Frydland  
Commissioner

108377

Permit must be displayed on job site at all times. Permit is NOT transferrable. Plans must be kept on site during construction. Any changes in contractor or deviation from approved plans must be approved by the Department of Buildings. Permit may be revoked for violation of any of the above provisions and/or all other applicable laws.





**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment P  
Tipping Floor and Storage Capacity**



## **Tipping Floor & Staging Capacity Calculations**

### **Volume available for unloading inbound materials:**

$$80,855 \text{ ft}^2 \text{ (tipping floor area)} \times 30 \text{ ft (height of raw material)} \div 27 \text{ ft}^3/\text{yd}^3 =$$
$$\mathbf{89,839 \text{ yds}^3}$$

### **Volume available for processed ferrous materials:**

$$12,500 \text{ ft}^2 \text{ (tipping floor area)} \times 20 \text{ ft (height of raw material)} \div 27 \text{ ft}^3/\text{yd}^3 =$$
$$\mathbf{9,259 \text{ yds}^3}$$

### **Volume available for processed shredder residue:**

$$7,500 \text{ ft}^2 \text{ (tipping floor area)} \times 20 \text{ ft (height of raw material)} \div 27 \text{ ft}^3/\text{yd}^3 =$$
$$\mathbf{5,556 \text{ yds}^3}$$

### **Volume available for processed nonferrous materials:**

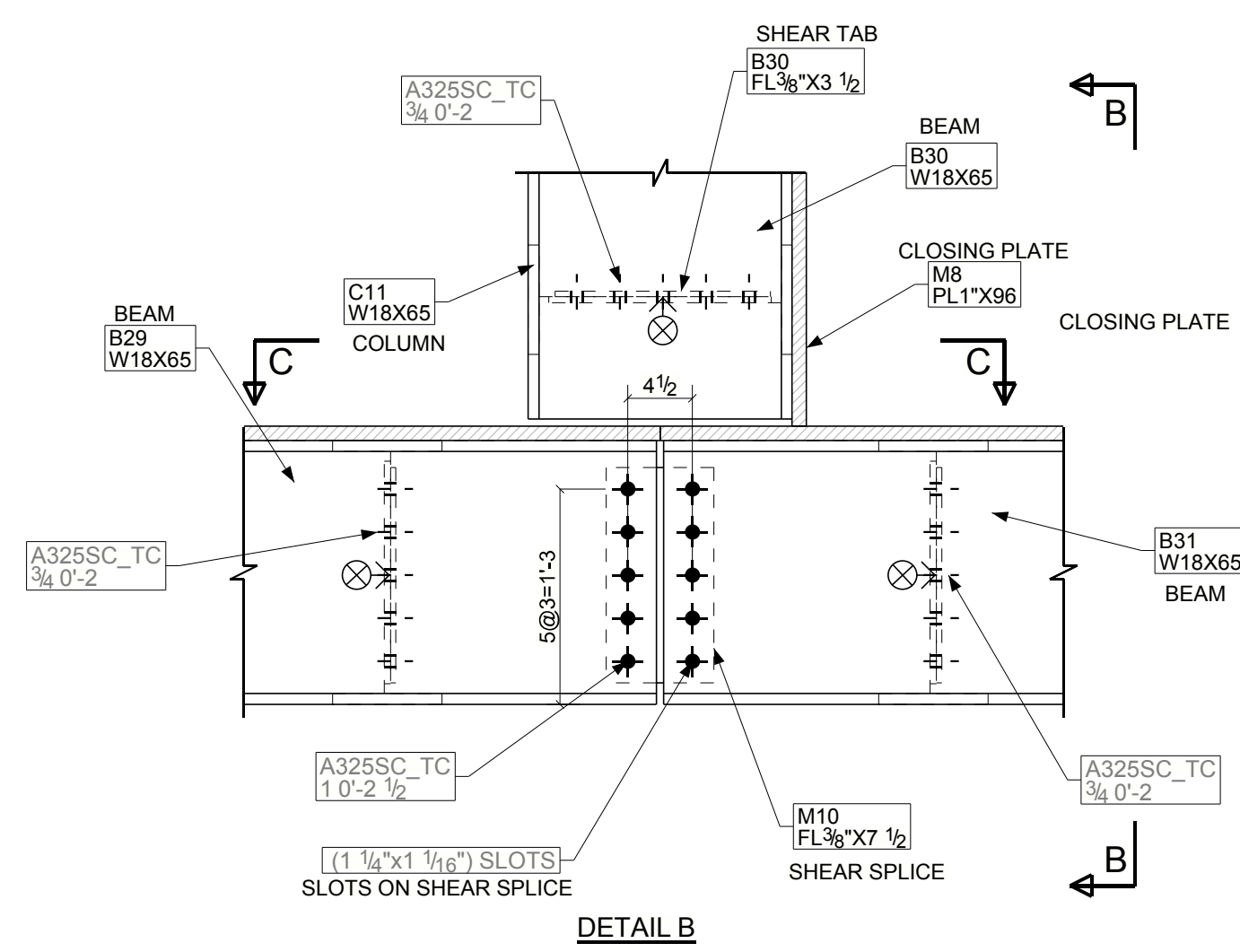
$$13 \text{ storage bins} \times 416 \text{ ft}^3 / \text{storage bin} = \mathbf{5,408 \text{ yds}^3}$$

### **Volume available for shredder fluff:**

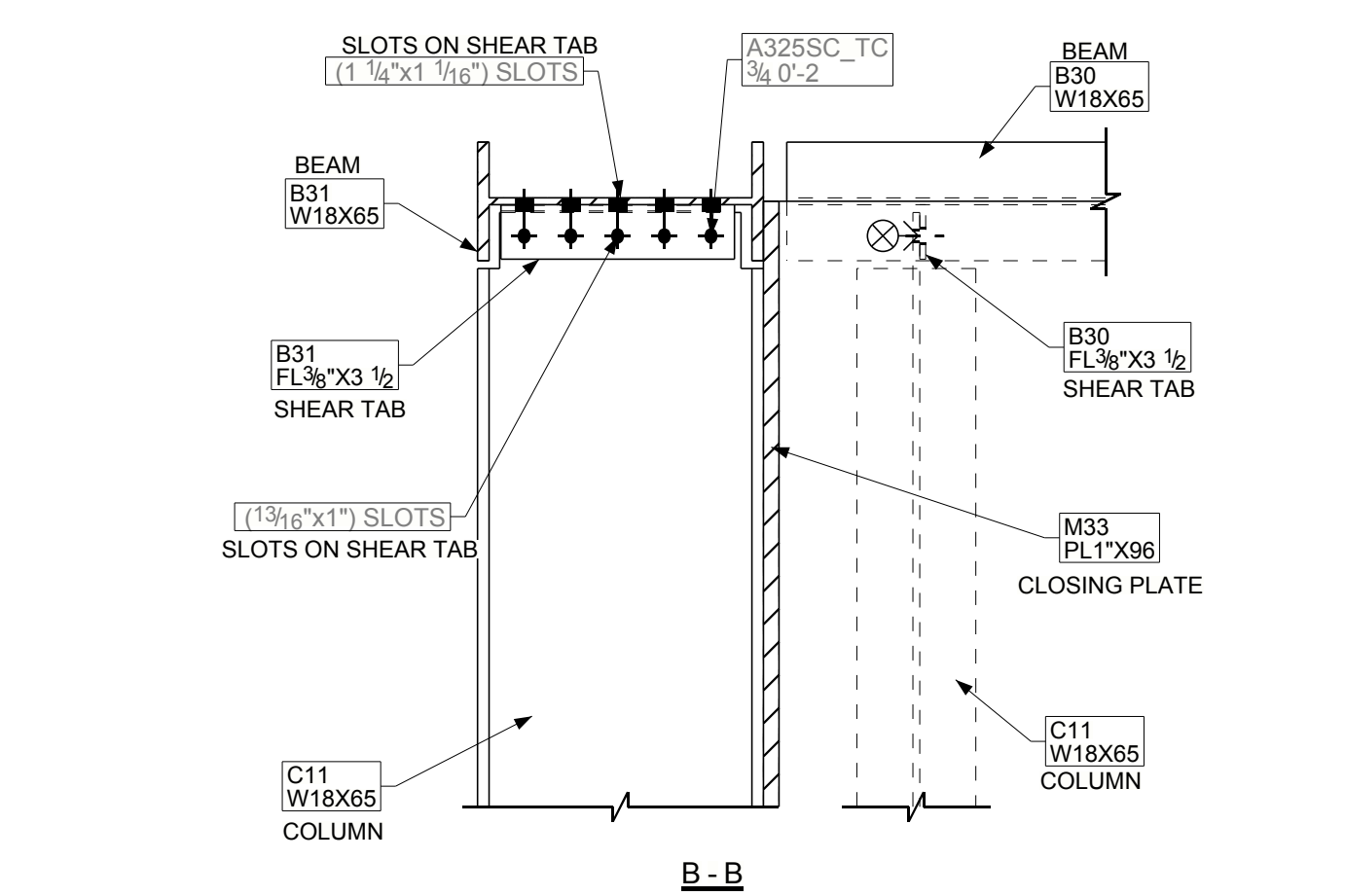
$$[2,310 \text{ ft}^2 \text{ (covered fluff bin area)} \times 21 \text{ ft (height of fluff)} \div 27 \text{ ft}^3/\text{yd}^3] + 250$$
$$\text{yds}^3 \text{ (area of cone)} = \mathbf{2,047 \text{ yds}^3}$$

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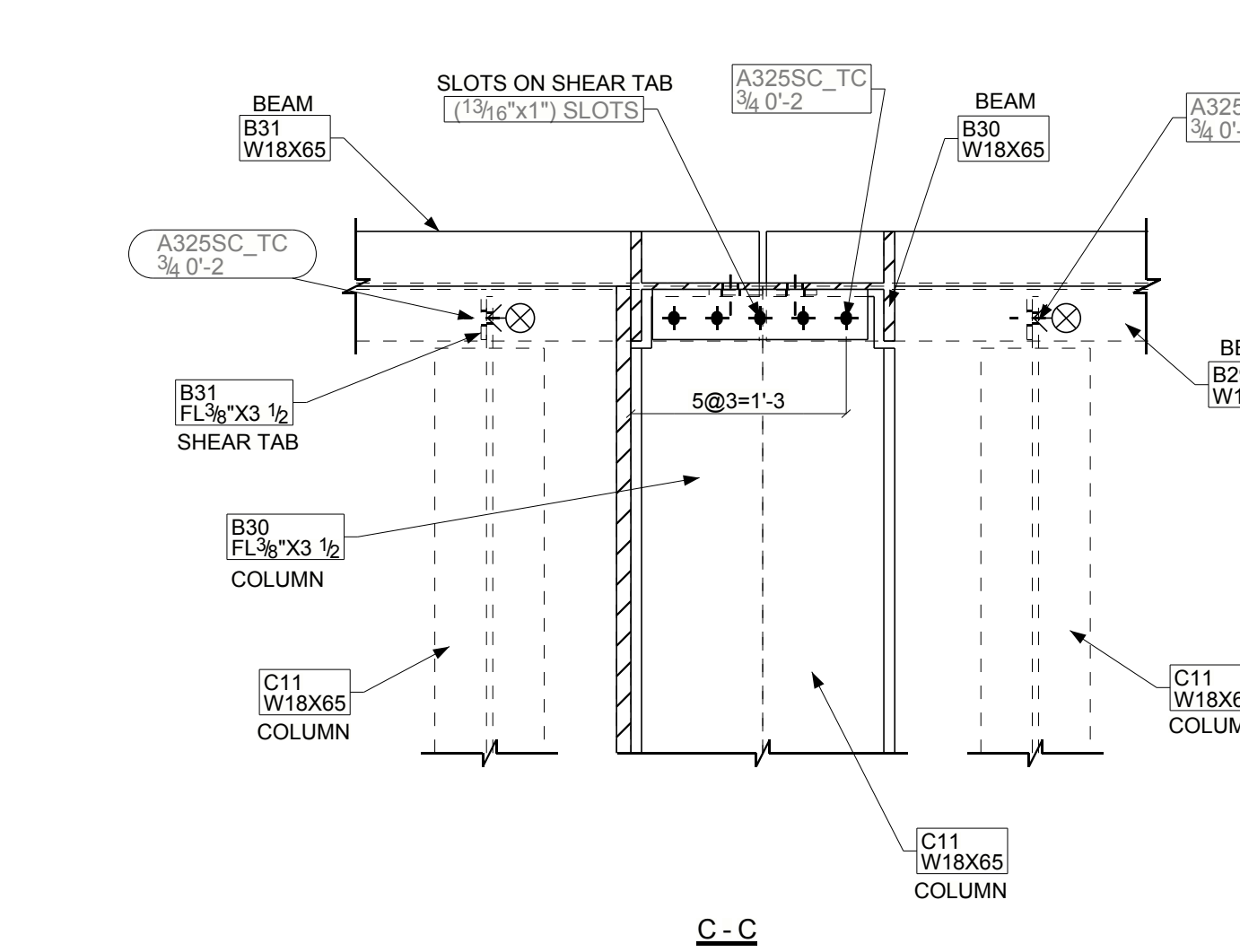




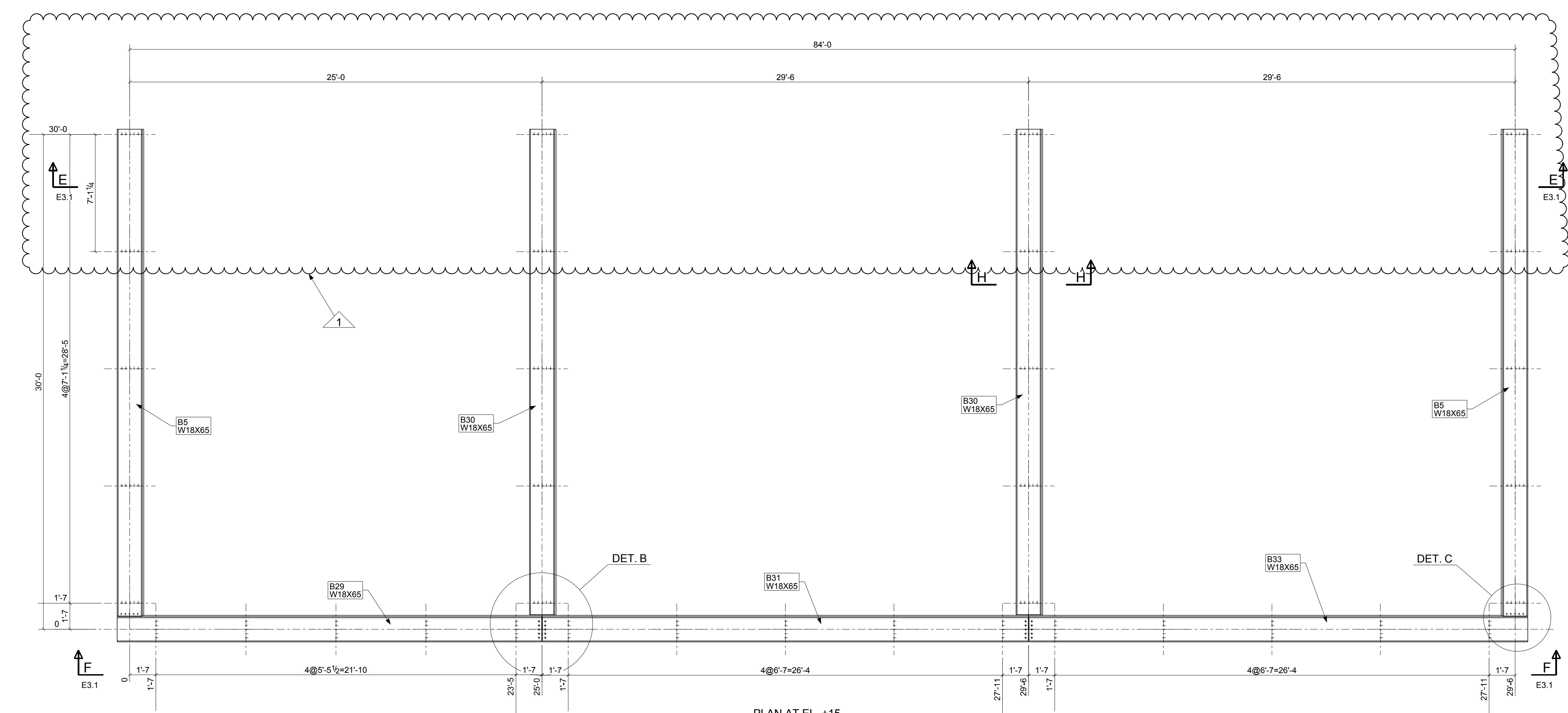
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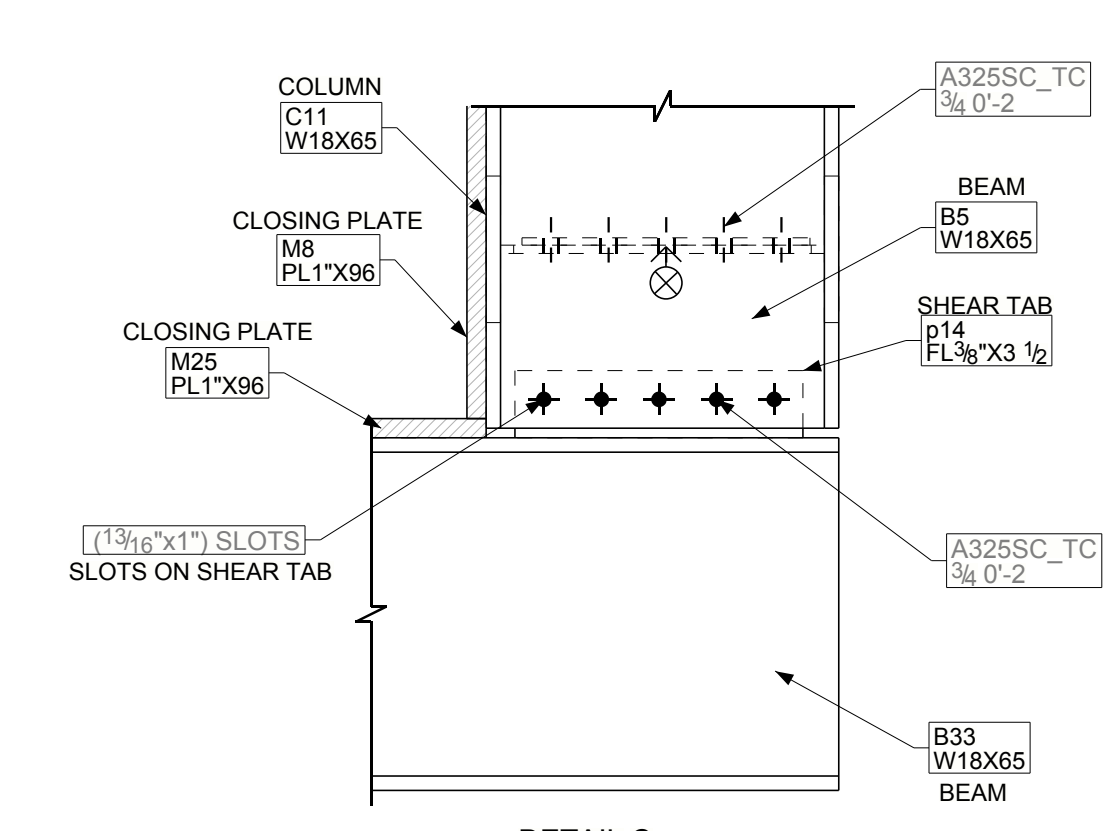
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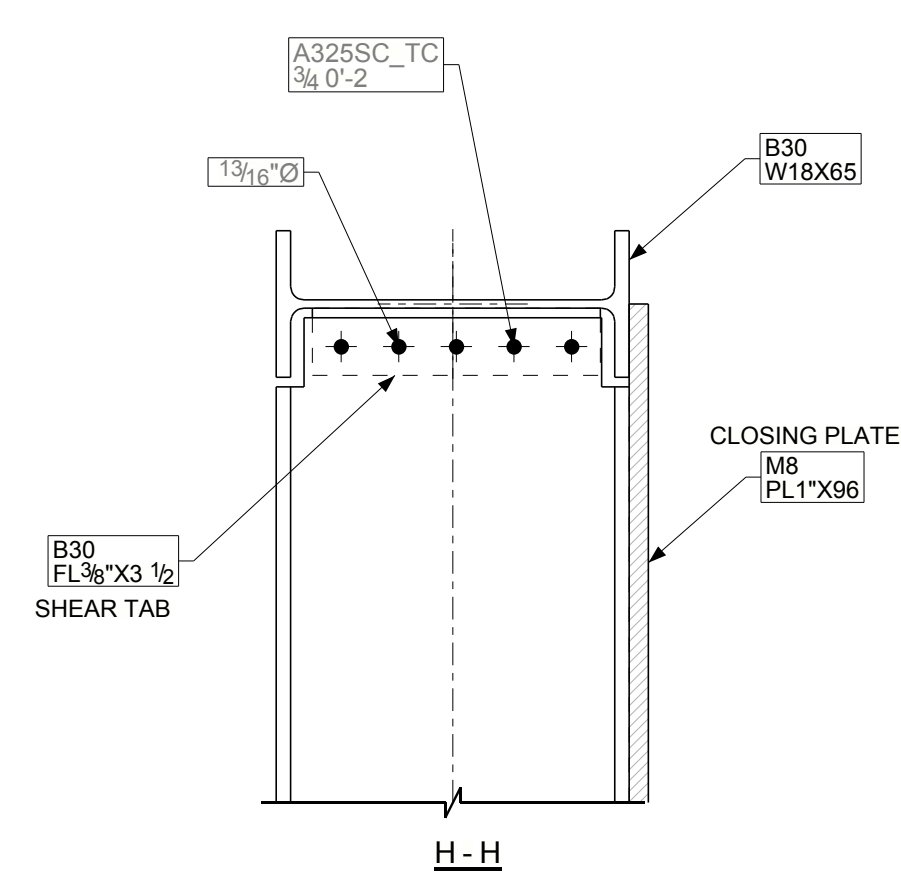
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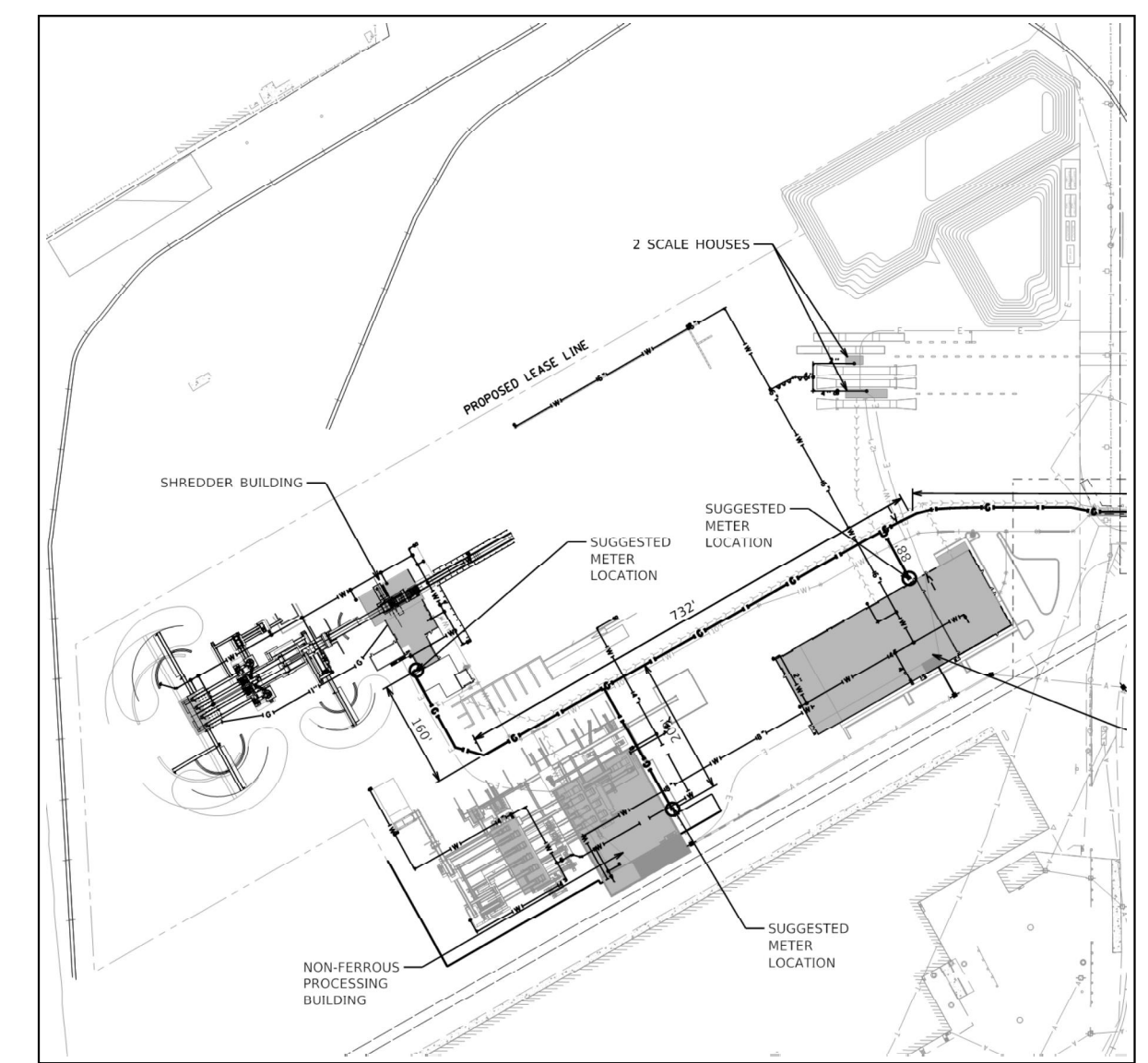
PLAN AT EL. +15



DETAIL C



H-H



KEY PLAN

APPROVER VERIFY ALL DIMENSIONS  
 PROVIDE GRID REFERENCE AT THESE STEEL BINS.  
 FINISH PRIMED.  
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**TRASH BIN- PLAN VIEW  
 3- MODULE BATTERY**

DATE	NO	DESCRIPTION	BY	CHECK
09/03/2020	1	After Return drawings 09-03-2020	HH	

**Great Lakes Stair & Steel, Inc.**  
 10130 Virginia Ave. Phone 708-430-2323  
 Chicago Ridge, IL 60415 Fax 708-430-2929  
 www.GLstair.com



**Architect:**  
 Knight

**Contractor:**  
 George Sollitt

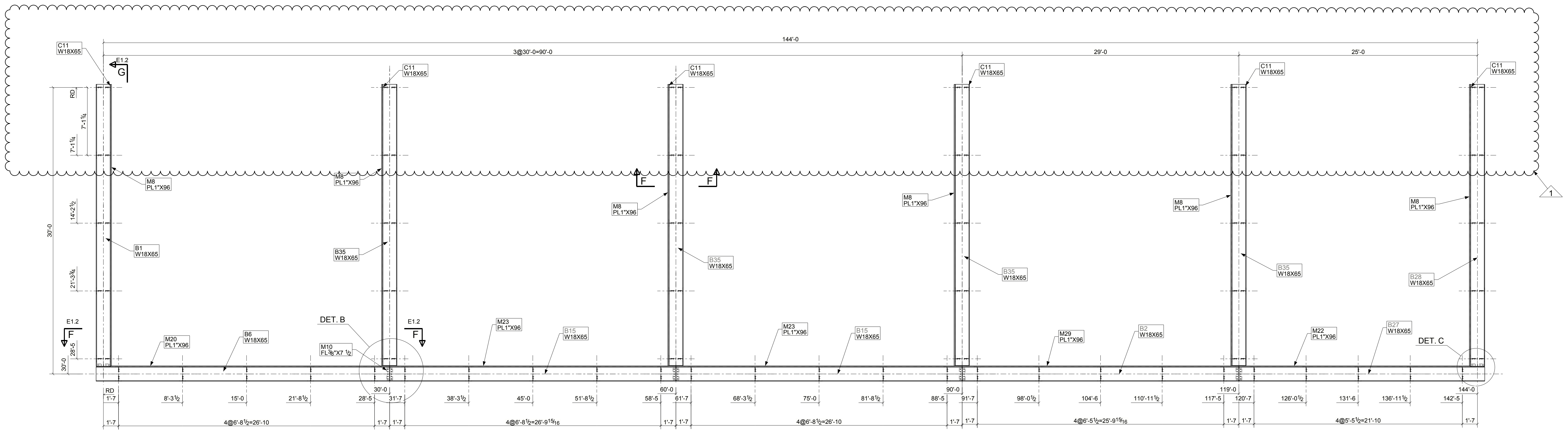
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 11551 S Ave. O Chicago IL 60617

**DESCRIPTION :** TRASH BINS (3)

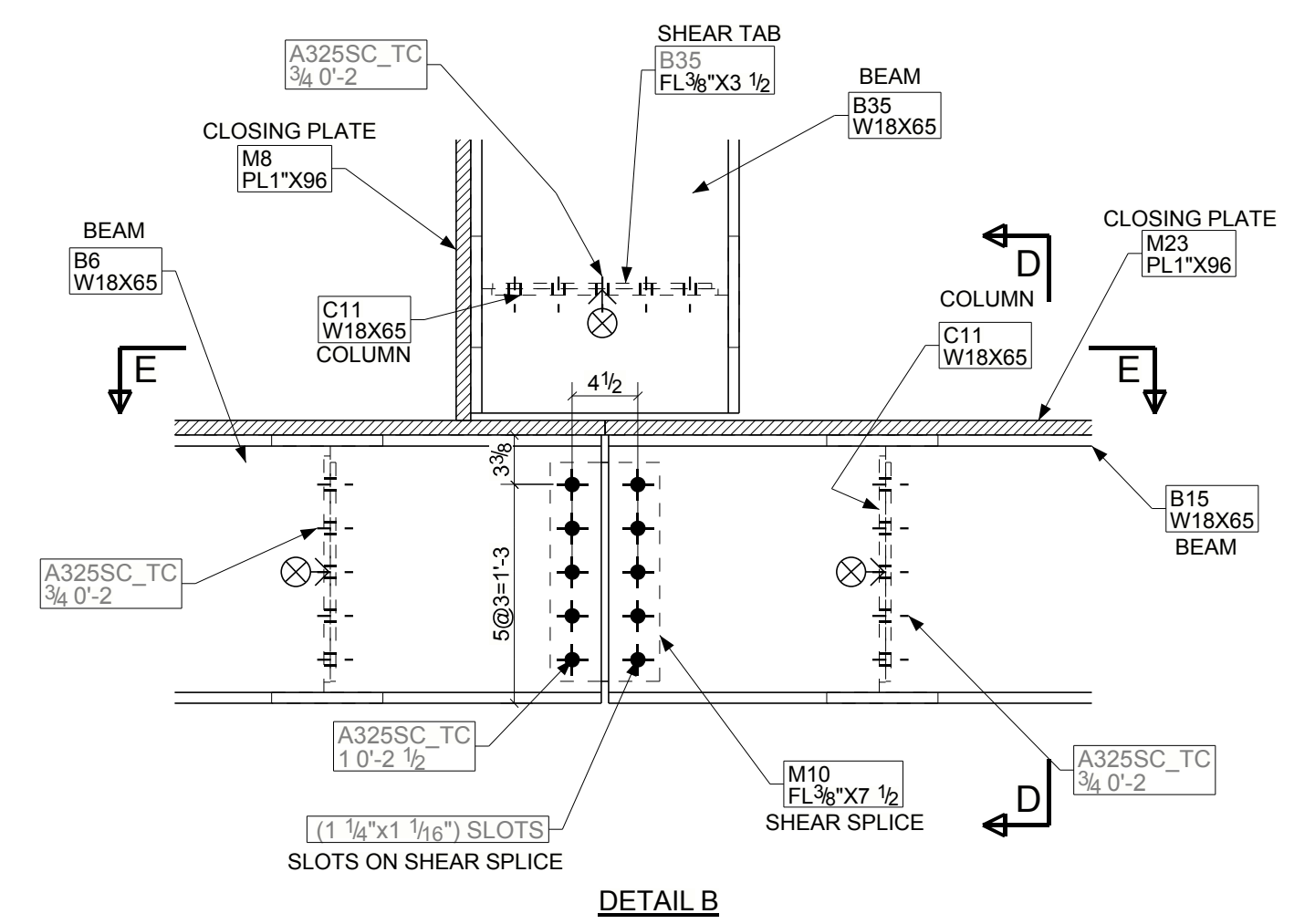
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 HH/WK

**ORIGINAL DATE:**  
 09/08/2020

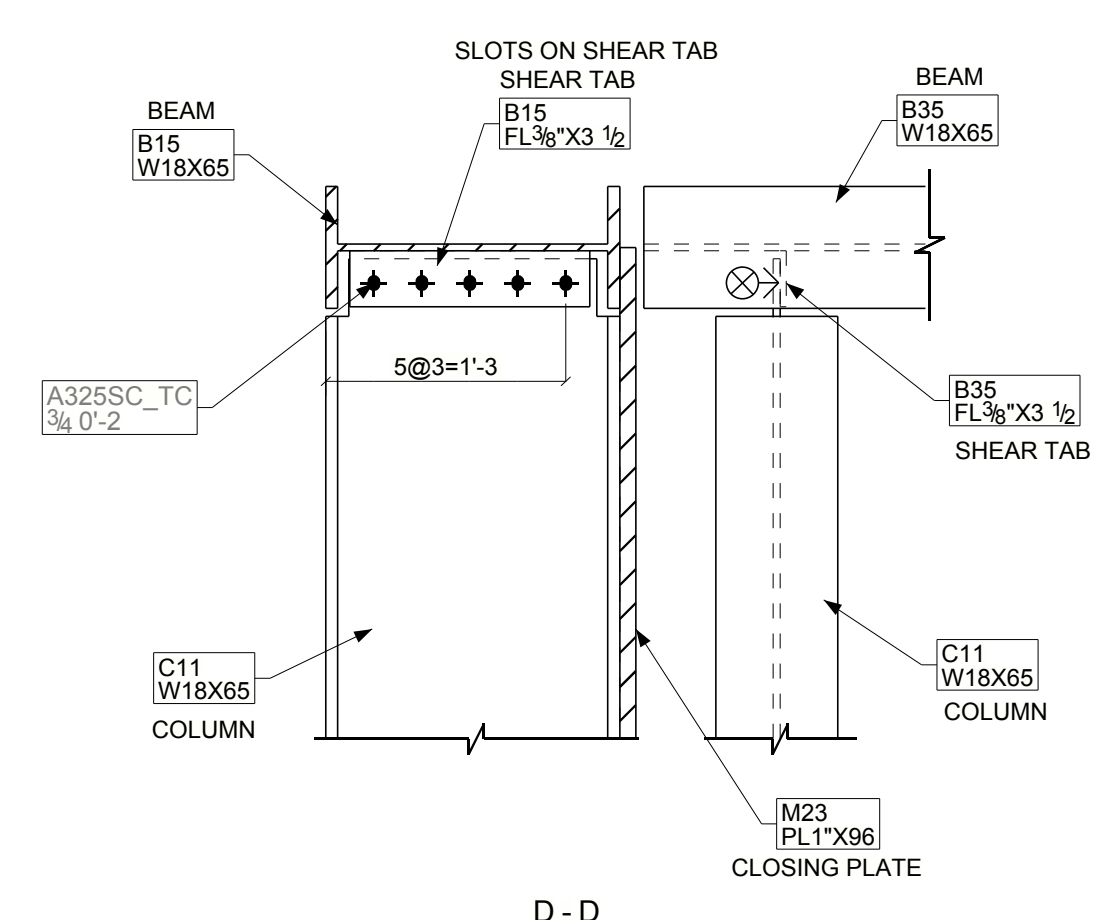
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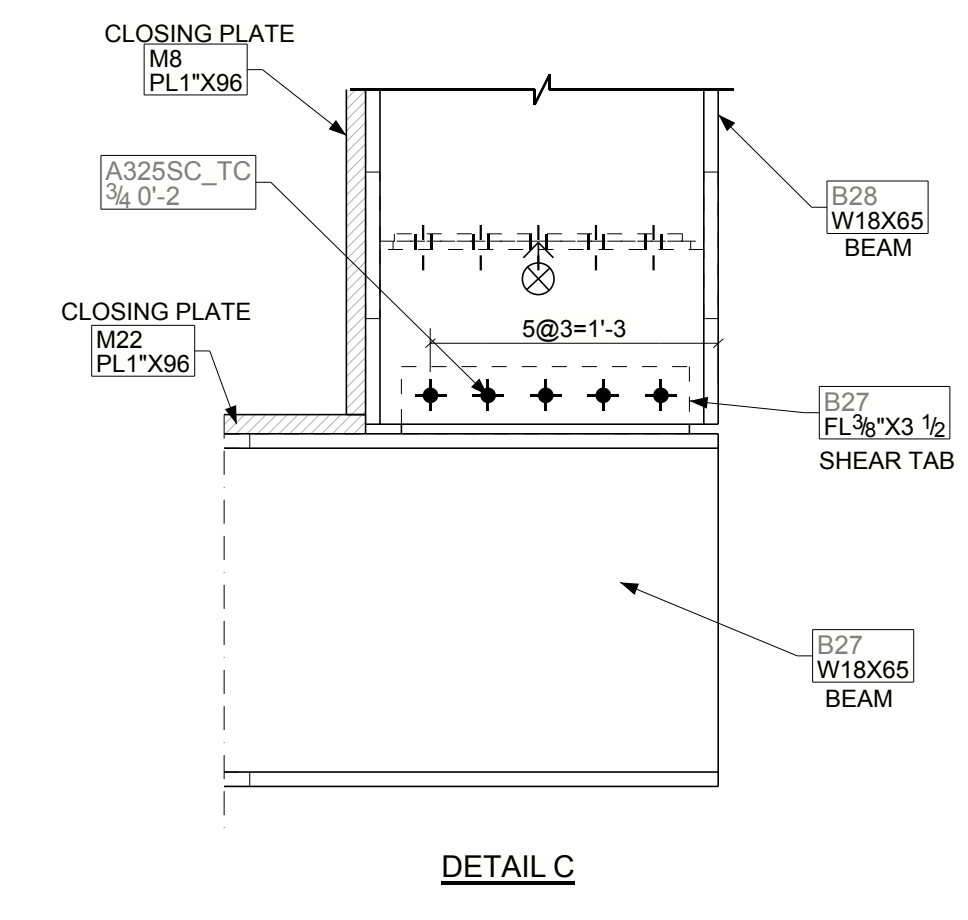
PLAN AT EL. +16'



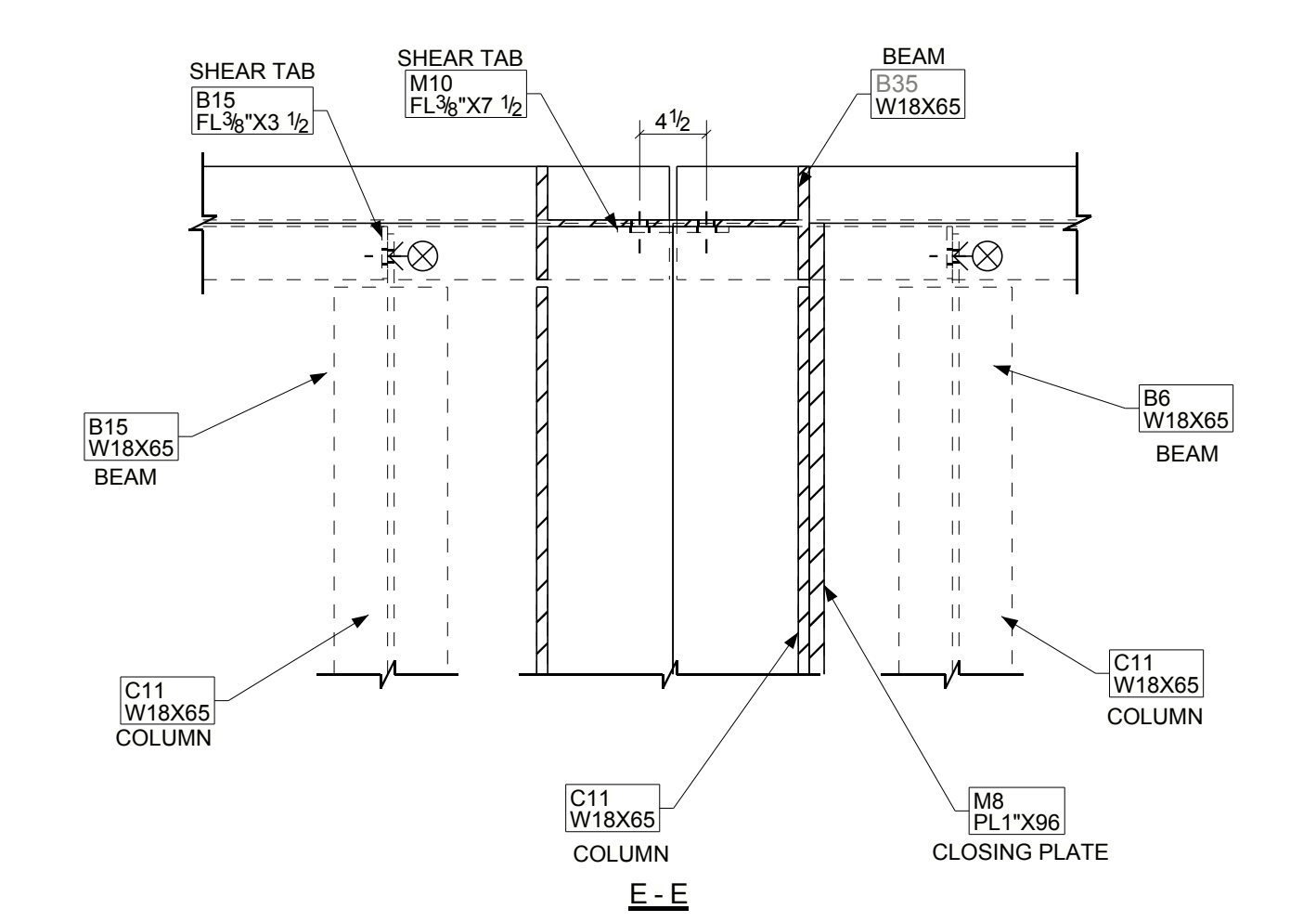
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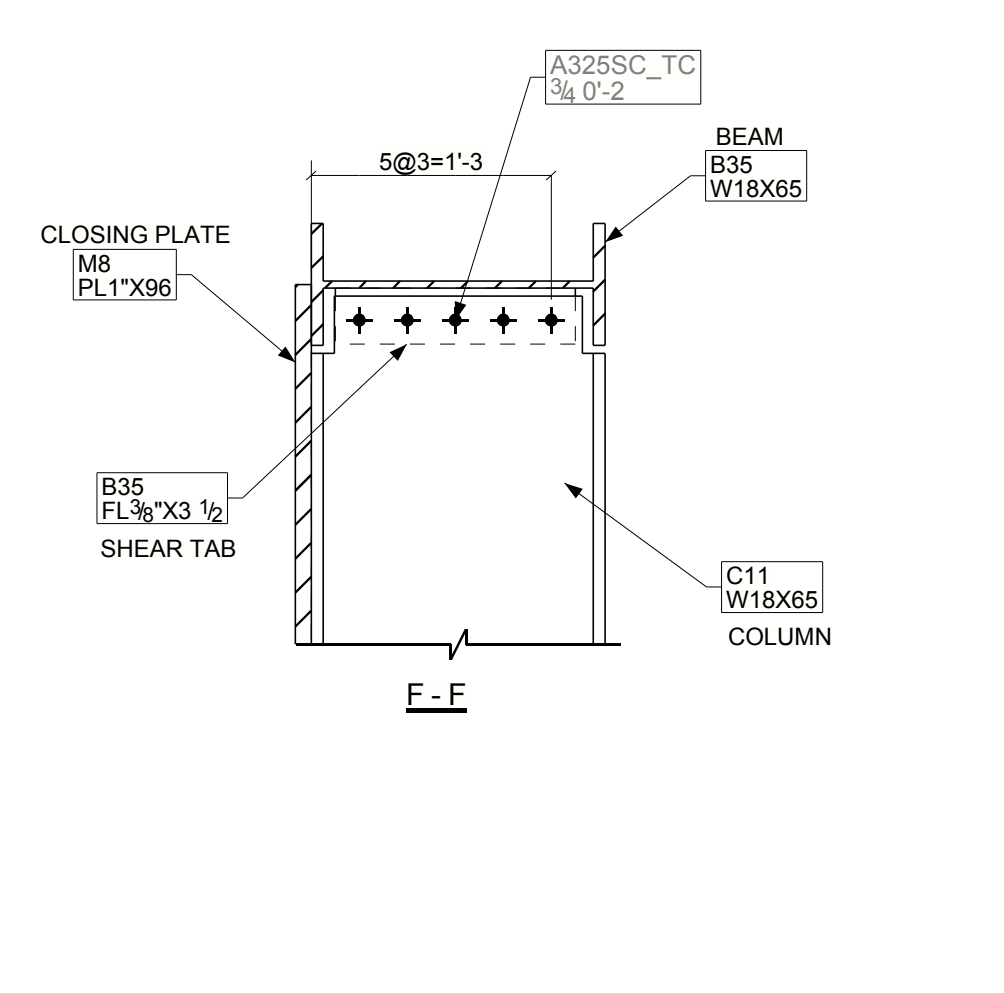
D-D



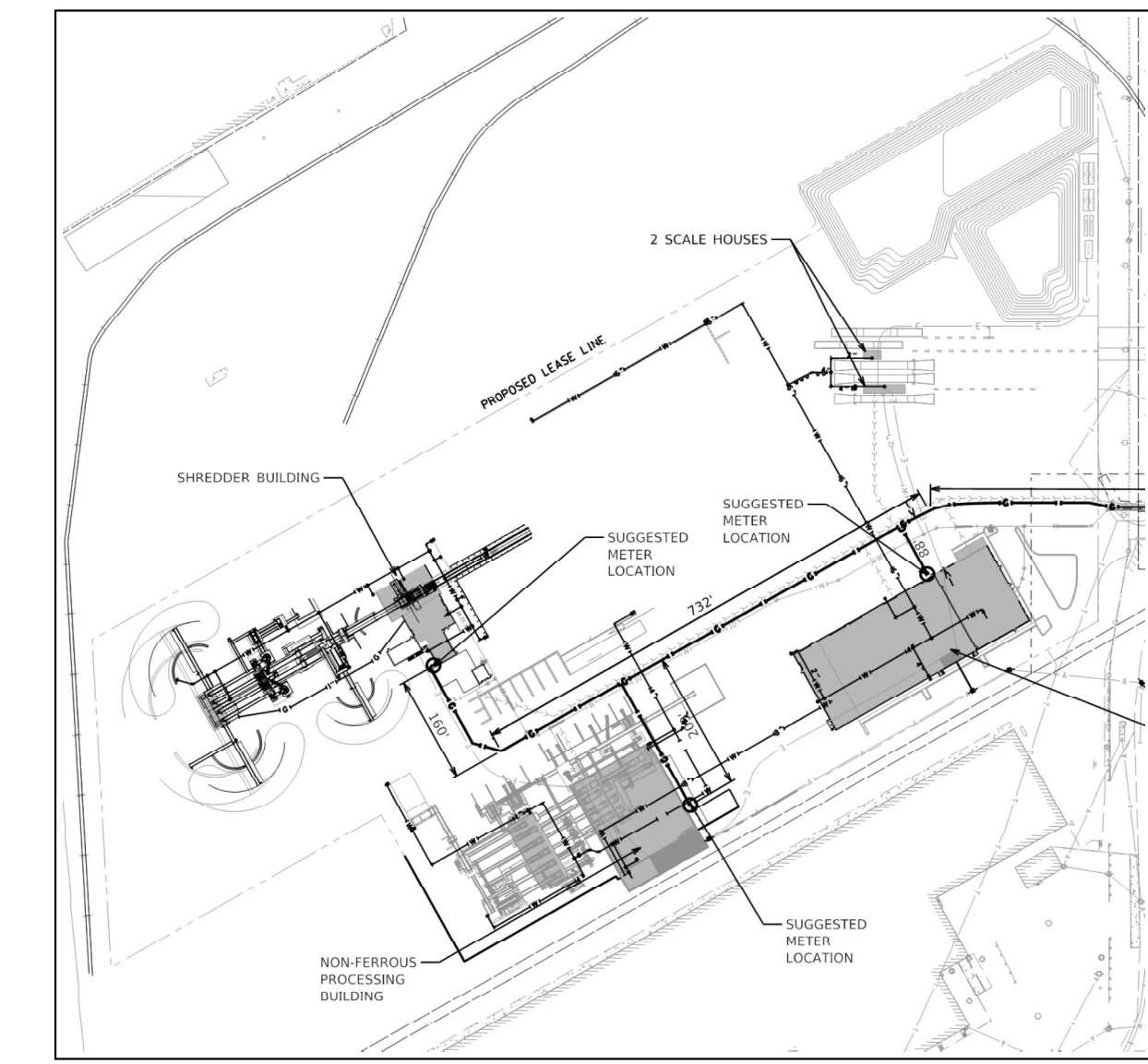
DETAIL C



E-E



F-F



KEY PLAN

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 FINISH PRIMED.  
 1\"/>

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 C:\Users\Hugo\Documents\Job Log  
 2018\MATERIALS 1.rtf

**TRASH BIN- PLAN VIEW  
 5- MODULE BATTERY**

DATE	NO	DESCRIPTION	BY	CHECK
09/03/2020	1	After return drawings 09-03-2020	HH	

**Great Lakes Stair & Steel, Inc.**  
 10130 Virginia Ave. Phone 708-430-2323  
 Chicago Ridge, IL 60415 Fax 708-430-2929  
 www.GLstair.com



**Architect:**  
 Knight

**Contractor:**  
 George Sollitt

**PROJECT :** 20026 General Iron G3  
 11551 S Ave. O Chicago IL 60617

**DESCRIPTION :** TRASH BINS

**DRAWN BY:**  
 HH/WK

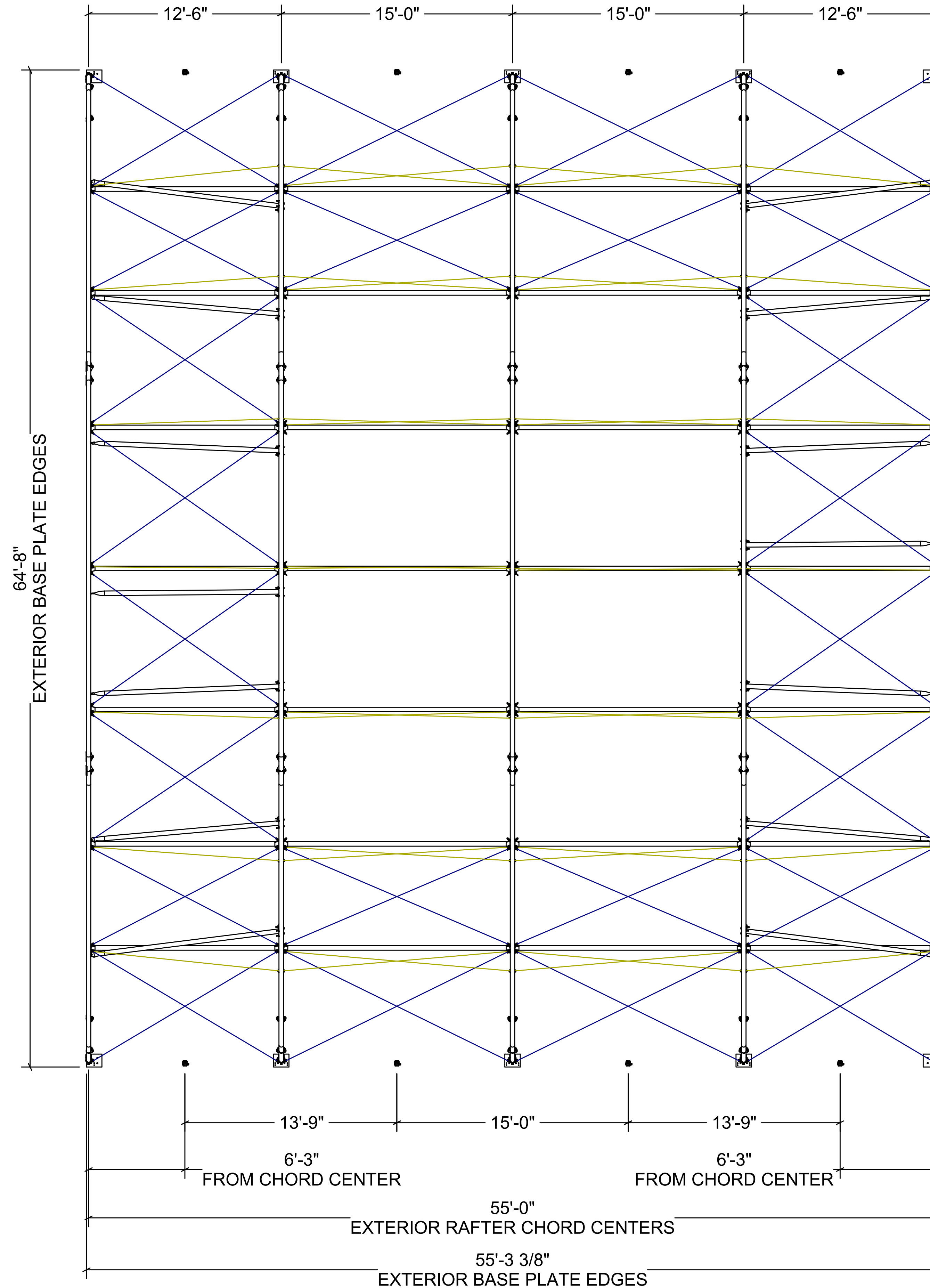
**ORIGINAL DATE:**  
 09/08/2020

**DRG No:**  
 E1.0

FRONT ENDWALL (OPEN)

RAFTER SPACING

LEFT SIDE - SEE SHEET [F1-1.0] FOR ELEVATION VIEW



WINCH LAYOUT

RIGHT SIDE - SEE SHEET [F1-1.0] FOR ELEVATION VIEW

BUILDING PLAN VIEW

- CABLE PATTERN
- SWAY CABLE PATTERN
- BUILDING DIMENSIONS
- RAFTER SPACING
- WINCH LAYOUT

BACK ENDWALL: EW065RDS2250DNF  
SEE SHEET [M1-1.0] FOR ELEVATION VIEW



ORDER #: 5178415  
CUSTOMER #: 5781347

CUSTOMER INFORMATION: <b>GENERAL IRON INDUSTRIES INC</b> 1909 N CLIFTON AVE CHICAGO, IL 60614-4803	STRUCTURE SKU #: <b>T065RDM017055NF</b>	STRUCTURE SIZE: <b>65' X 55'</b>	STRUCTURE DESCRIPTION: <b>65X55 RDM TRS 12FR GRN 2PKT+6"</b>
CUSTOMER CONTACT: <b>KEVIN TRANT</b>	CONTACT PHONE: <b>773-327-1118</b>	SHEET TITLE: <b>BUILDING PLAN VIEW</b>	

DRAWING DETAILS		
DRAWN BY: CKM	CREATION DATE: 7/19/2012	
REVISIONS:		
NO.	BY:	REVISION DATE:
1	TS	7/26/2012
2		
3		
4		

NOT TO SCALE SHEET SIZE: 11X17  
SHEET: **C1-1.0**

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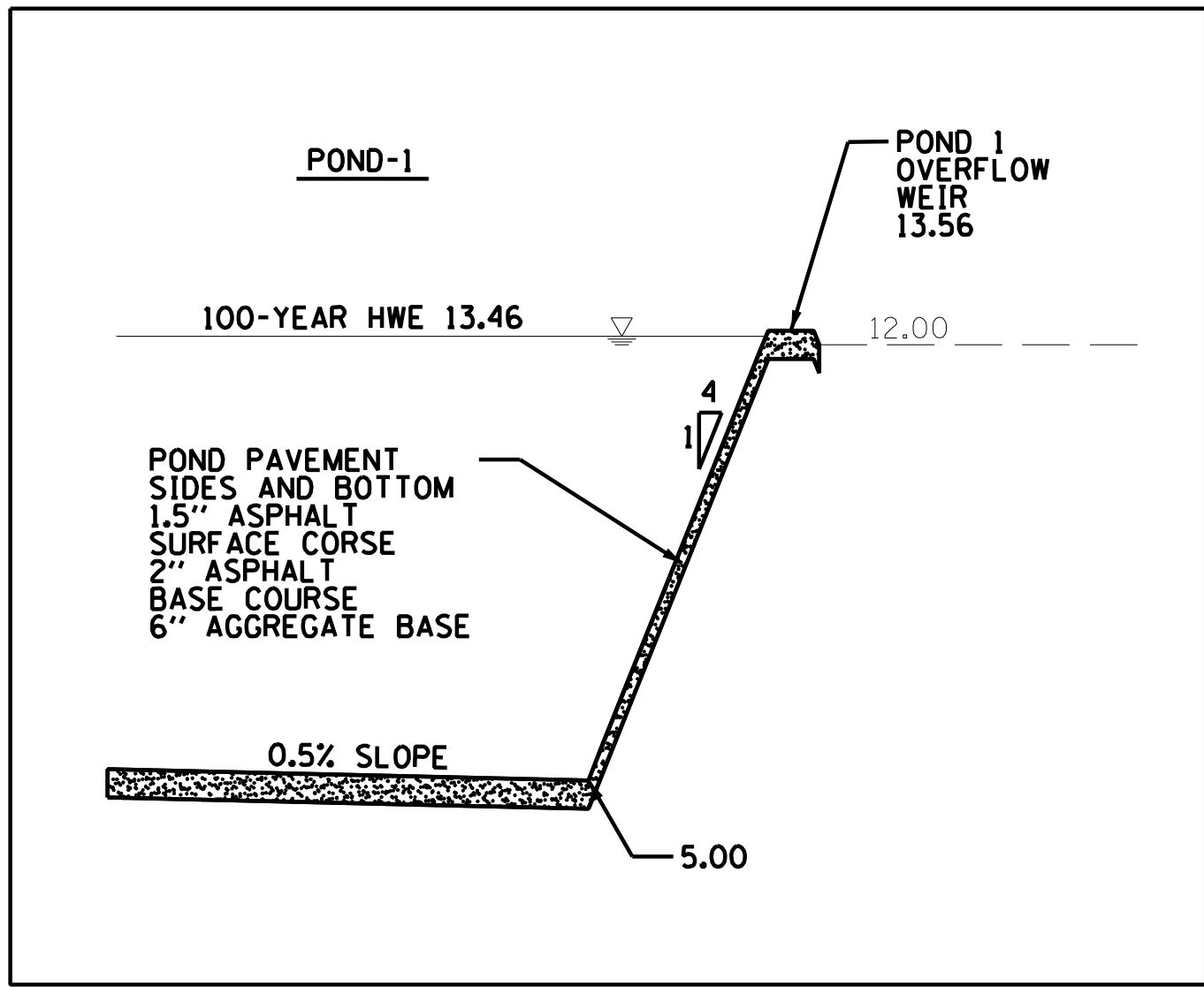
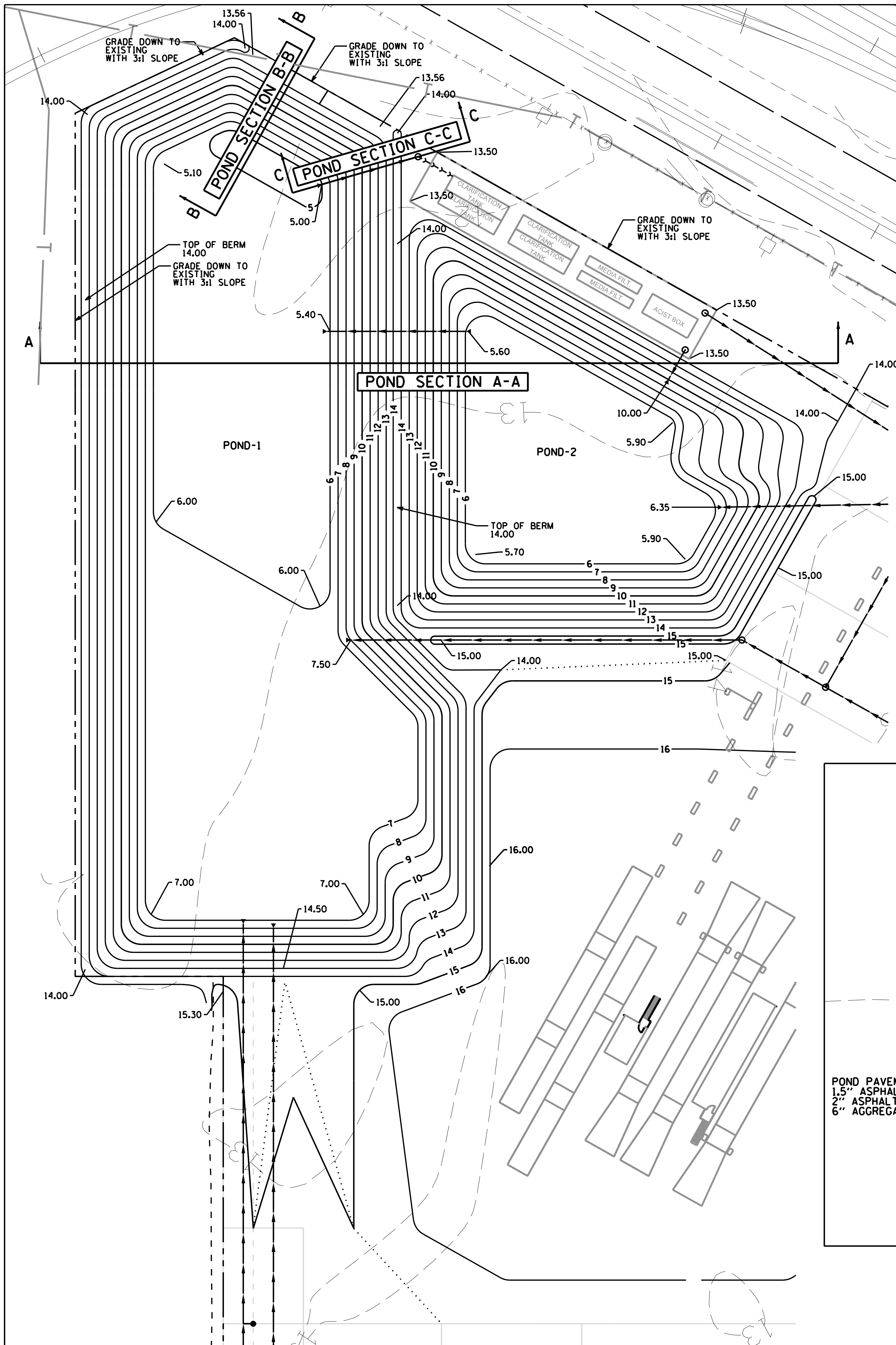


**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

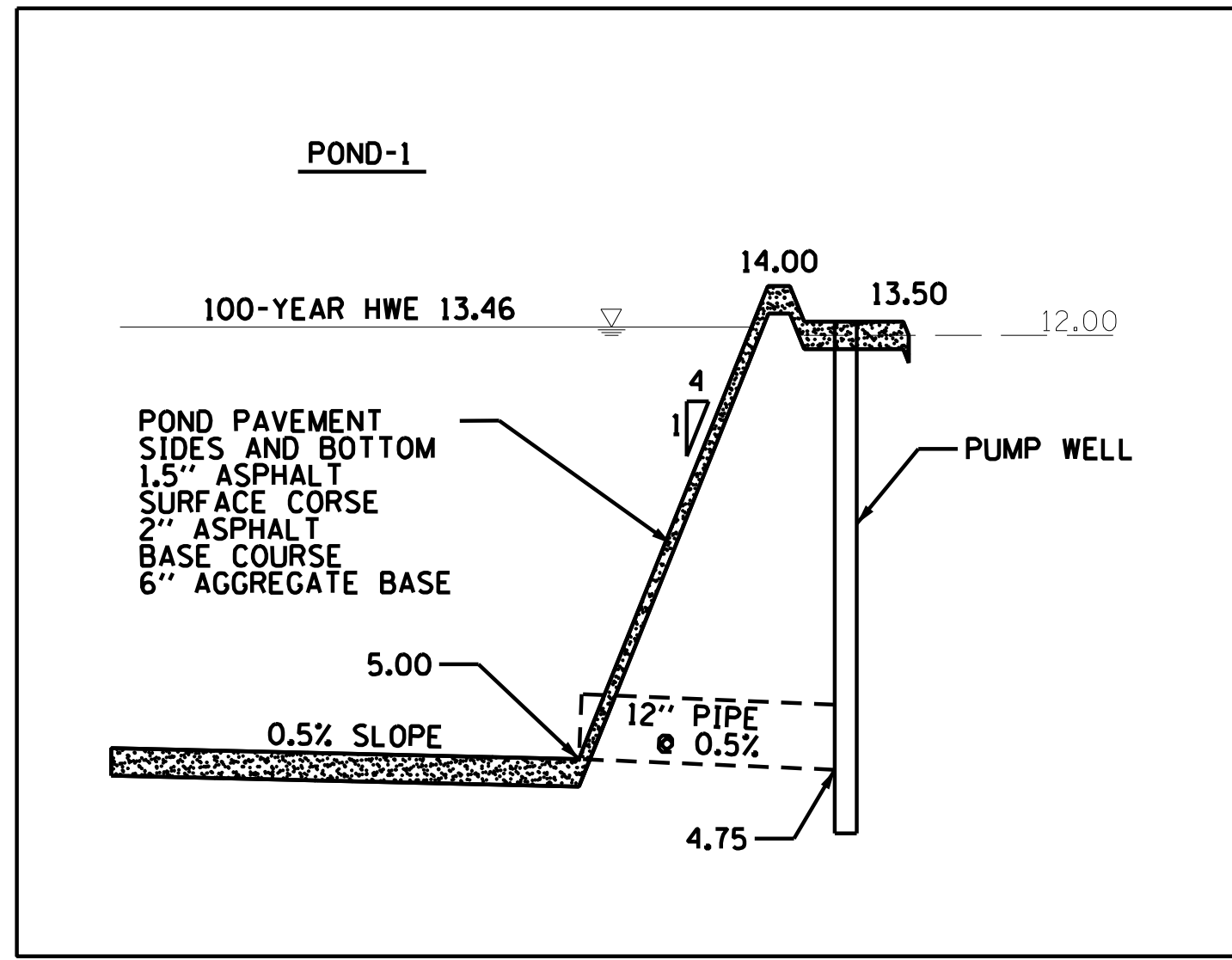
**November 2020**

**Attachment Q  
Water Drainage**

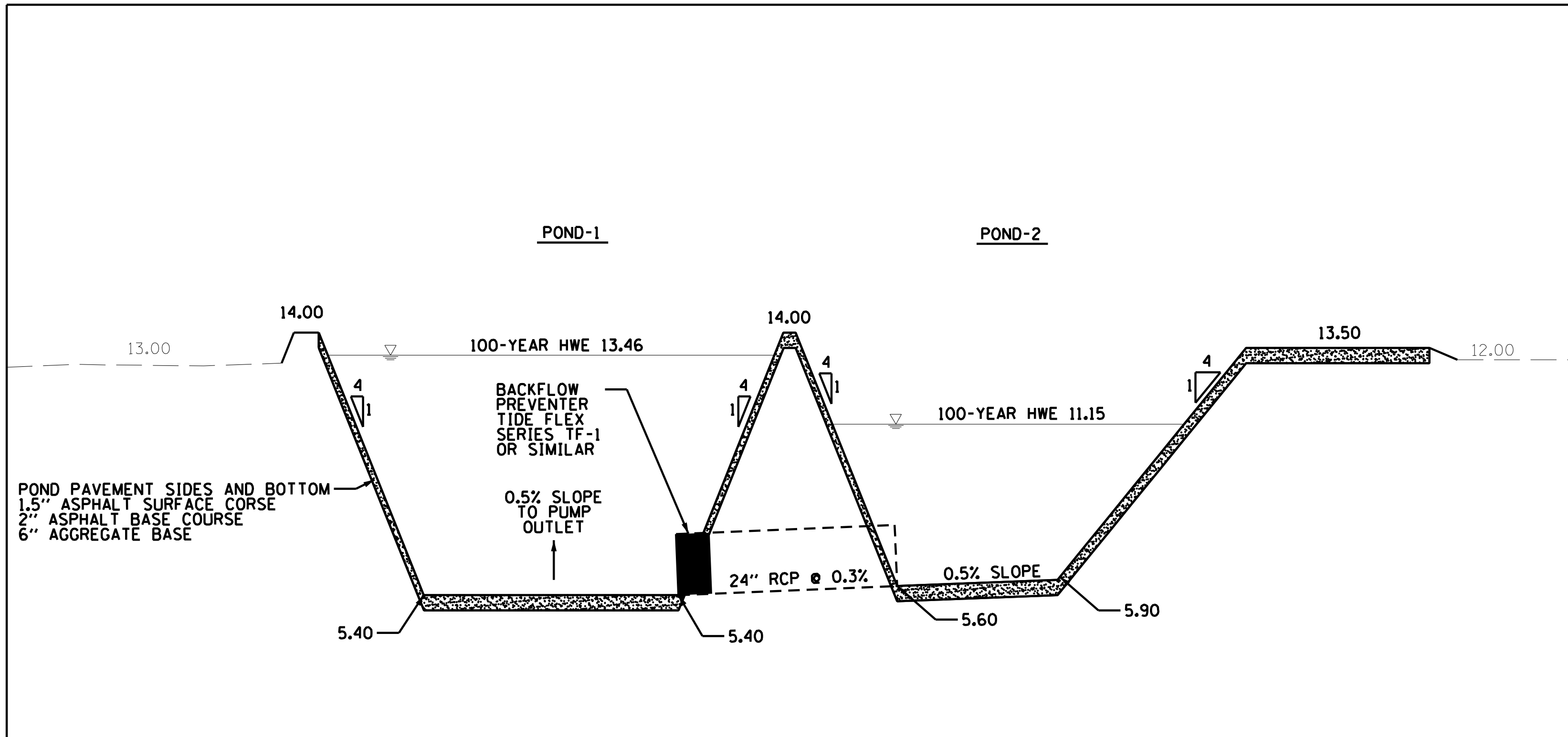




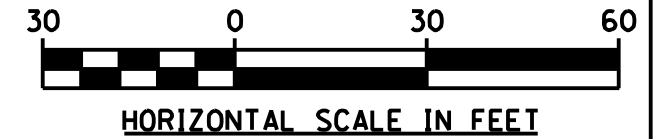
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N.T.S.



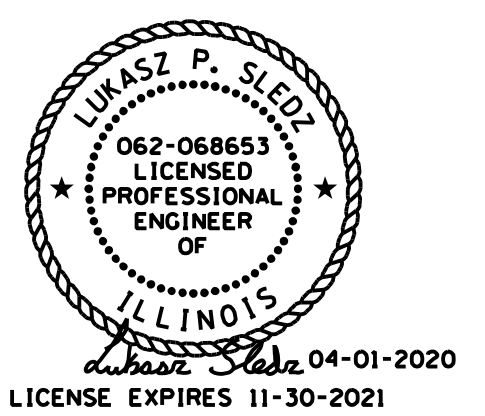
POND SECTION C-C  
N.T.S.



POND SECTION A-A  
N.T.S.



**KNIGHT**  
Engineers & Architects  
Knight E/A, Inc.  
221 North LaSalle Street  
Suite 300  
Chicago, IL 60601  
Phone: (312) 577-3300  
knightea.com



PROJECT:  
**GENERAL III**  
11554 S AVENUE O  
CHICAGO, IL 60617

2 4-1-2020 ISSUE FOR REVISION TO PERMIT  
1 01-10-2020 ISSUE FOR BID

GRADING PLAN  
POND SECTION

PROJECT #: 7563 DATE: 04-01-2020

C-2.4

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**DEPARTMENT OF BUILDINGS  
CITY OF CHICAGO**

DATE: 1/9/2020  
TO: Patrick Maloney, PE, Assistant Chief Engineer  
FROM: Andrew Billing, PE, Lead Stormwater Reviewer *AB*  
SUBJECT: Approval of Design Plans, dated: 12/27/2019

Project Name: **General III Recycling Facility**  
Project Address: **11554 S Avenue O**  
Tracking Number: **N/A**  
Designer/Developer: **Knight Engineers & Architects**

- Plan Approval.** The following size(s) of drain connection(s) to the main sewer(s) is/are acceptable for the subject property. Please check the plans for other permit requirements inside private property including covenants for joint maintenance.
- Conditional Plan Approval.** The following size(s) of drain connection(s) to the main sewer(s) is/are acceptable for the subject property. However, the attached comments/mark-ups as noted **must** be incorporated into the final plans. Please verify that the plans have been revised as noted and check other permit requirements inside private property including covenants for joint maintenance.

**Connection size and location:**

One 8-inch combined connection to 27-inch sewer in vacated Burley Ave

**Restrictor size and catch basin number and location:**

Pump sized to release maximum allowable release rate of 1.62 cfs.

**Rate Control BMPs:**

A total of 491,611 cubic feet of storage is provided in two asphalt-lined detention basins. 22,128 cubic feet is provided in storm sewer. A total of 513,739 cubic feet is provided. 513,391 cubic feet is required (includes 45,557 cubic feet of volume control storage).

**Volume Control BMPs:**

The required 45,557 cubic feet of storage is provided in asphalt-lined detention basins (23,784 cubic feet) and storm sewer (22,128 cubic feet).

**Plan modifications described below (or shown on attached sheets) are required on the following sheet numbers:**

Sheet(s) \_\_\_\_\_  
\_\_\_\_\_

**Notes:**

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

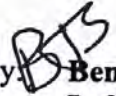
**Stormwater Management Plan Review Fees:**

The following stormwater review fee has been paid prior to this stormwater approval. (See Stormwater Ordinance, Article 11-18-080, for review fees.)

- \$1,000.00 for regulated developments < 50,000 sq. ft.
- \$3,000.00 for regulated developments >= 50,000 sq. ft.
- \$1,500.00 for a variance request < 50,000 sq. ft.
- \$4,500.00 for a variance request >= 50,000 sq. ft.
- \$350.00 for a plan amendment submitted within one year of plan approval
- \$500.00 for a plan amendment submitted over one year after plan approval
- No Fee Required, reason:

Departmental requirements are subject to change. This record of approval is **valid for one year** from the date of issue indicated above. It is the designer's/developer's responsibility to field check the size, location, and invert elevation of existing sewers and other city-owned or private utilities prior to the start of construction.

Please be advised: this document is a stormwater design approval; **this is not a permit** to perform the work shown on the plans. The contractor must obtain all required permits prior to beginning construction including, but not limited to, the sewer permit, street opening permit, driveway permit, etc.

Originated by  Benjamin Stammers, PE, V3 Companies, Consultant Reviewer  
cc-Designer: Lukasz Sledz, PE, Knight Engineers & Architects

PD Approval

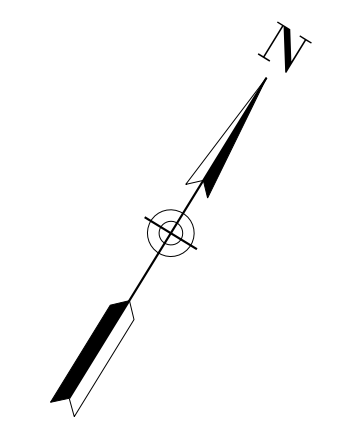


**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

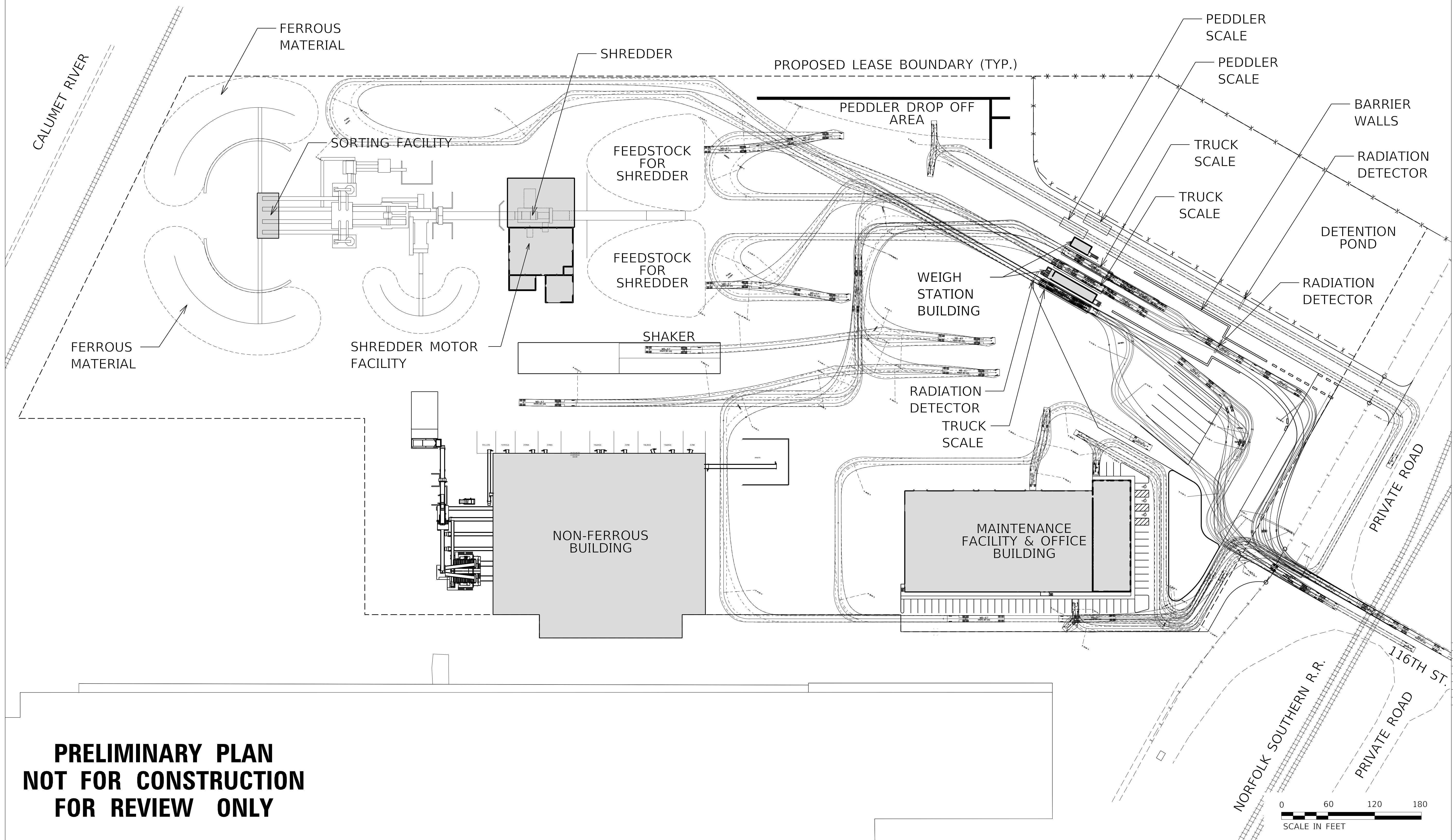
**November 2020**

**Attachment R  
Traffic**





**KNIGHT**  
 Engineers & Architects  
 Knight E/A, Inc.  
 221 North LaSalle Street  
 Suite 300  
 Chicago, IL 60601  
 Phone: (312) 577-3300  
 knightea.com



**PRELIMINARY PLAN  
 NOT FOR CONSTRUCTION  
 FOR REVIEW ONLY**

**ON-SITE VEHICLE MOVEMENTS**

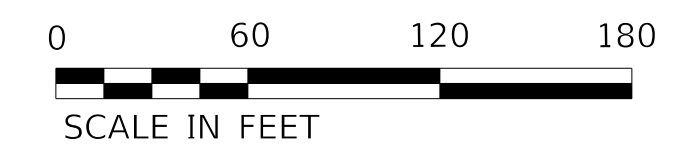
PROJECT:  
**GENERAL III**  
 11600 S BURLEY AVE  
 CHICAGO, IL 60617

XX-XX-XX ISSUE FOR REVIEW

GENERAL III  
 PROPOSED SITE PLAN  
 ON-SITE VEHICLE MOVEMENTS

PROJECT #: 7563      DATE: 01-18-2018

TM-01



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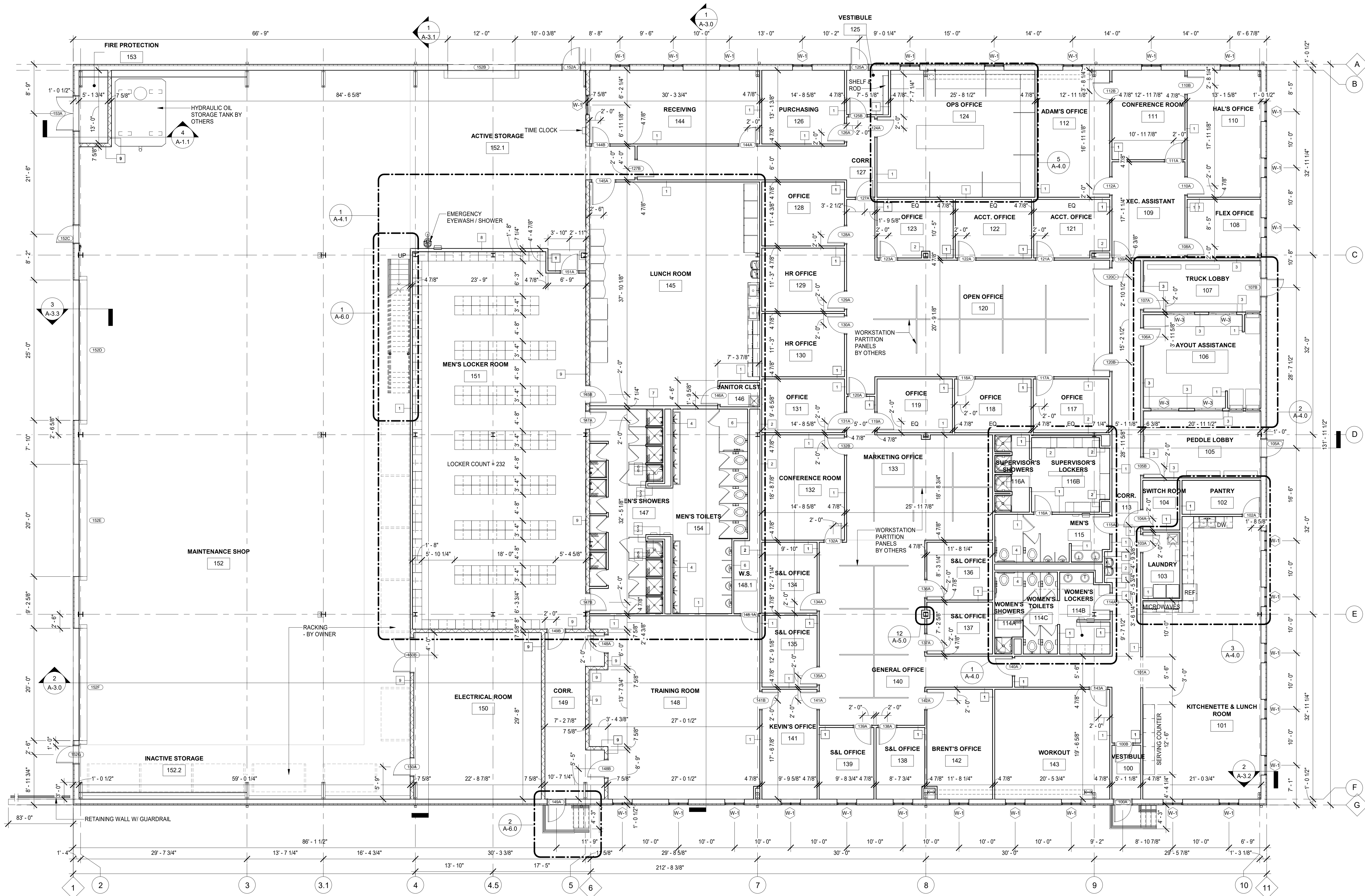
**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment S  
Employee Facilities**







1 OFFICE & MAINTENANCE - FLOOR PLAN  
1/8" = 1'-0"

**KNIGHT**  
Engineers & Architects  
Knight E/A, Inc.  
221 N. LaSalle Street  
Suite 300  
Chicago, IL 60601  
Phone: (312) 577-3300  
knightea.com

PROJECT:  
**GENERAL III, LLC**  
**STRUCTURE A - OFFICE / MAINTENANCE**  
11551 S. AVE. O  
CHICAGO, IL., 60617

3	06/28/2020	ISSUE FOR PERMIT REVISION
2	04/01/2020	REVISION TO PERMIT
1	07/16/2019	ISSUE FOR PERMIT REVIEW
#	DATE	ISSUE

FLOOR PLAN

PROJECT #: 7563  
DATE: 7/16/19

A-1.0

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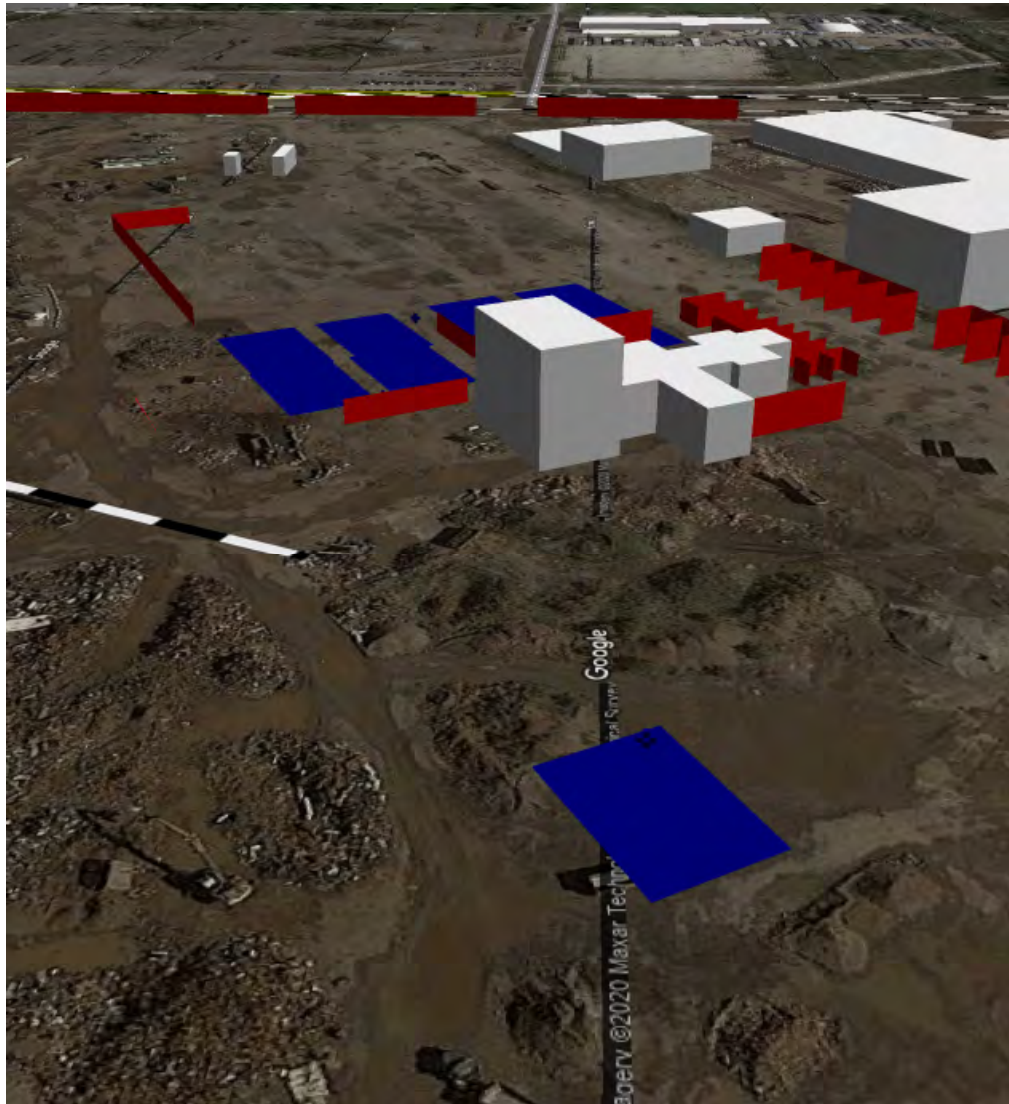
**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment T  
Noise Impact Assessment**



## Southside Recycling Environmental Noise Assessment



SAI project 1201003

Revision B  
November 12, 2020

Shiner Acoustics, LLC  
225 West Washington Street, Suite 1625  
Chicago, Illinois 60606

Prepared for  
Southside Recycling  
11554 S. Avenue O  
Chicago, Illinois, 60617

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3. Criteria .....2

4. Noise-Sensitive Receivers .....2

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Appendix B. Outdoor Sound Modeling Methodology .....8

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## 1. Summary

Shiner Acoustics, LLC conducted a noise evaluation for the proposed Southside Recycling facility. The evaluation concerned predictions of the project's outdoor sound levels at noise-sensitive receivers. The project consisted of measurements at the existing GII, LLC Lincoln Park facility, reviewing documents, developing an acoustical model of the Southside Recycling facility, and predicting environmental noise levels.

The Chicago noise ordinance requires meeting 55 dBA at the nearest adjacent public way or nearest adjacent property, whichever is closer to the source.

Facility noise sources and outdoor sound propagation to the receivers were modeled with acoustical software. The facility's design includes noise mitigation such as locating noise equipment away from residences, enclosing noise sources such as the shredder and fans, multiple obstacles to sound propagation within the site, and a sound barrier at the east and northeast site boundary.

We analyzed environmental noise with the preceding equipment and general arrangement. The site is predicted to comply with the Chicago noise ordinance. No additional mitigation is recommended.

## 2. Equipment and Site Description

A large recycling facility with a shredder and material handling operations is currently located at GII in the Lincoln Park neighborhood of Chicago. A new, similarly-sized facility (Southside Recycling) will be located at the former Republic Steel site on the southeast side of the city in the South Deering neighborhood at 11600 S. Burley Ave. The new property will be about 700 ft by 1,700 ft.

For sound mitigation, the GII Lincoln Park shredder has rubber curtains and a partial roof. The Southside Recycling shredder will have an acoustical enclosure with a roof. There will be multiple pieces of noise-generating equipment on the site: material handlers or grapples, front end loaders, dump trucks, a shearing machine, conveyors, and large industrial fans for pollution control. The shredder will be located in an insulated industrial building.

The plant site and surrounding parcels are essentially flat in every direction. The properties in the vicinity of the facility are as follows and are shown in Figure 1:

1. To the north: industrial land in the same manufacturing district (PMD-6) as the proposed facility;
2. To the east: industrial land in PMD-6, noise-sensitive properties, including a residential neighborhood about 1,150 ft to the northeast and the high school about 1,700 ft to the east, and commercial facilities;
3. To the south: industrial properties in PMD-6; and
4. To the west: Calumet River, industrial properties in PMD-6 to the west of the river, and a wetland marsh about 2,200 ft away.

### **3. Criteria**

Facility noise limits are derived from the City of Chicago noise ordinance. The ordinance states that sound levels due to mechanical stationary sources must meet 55 dBA at 100 ft or more from the source.

The measurement location is specified as the nearest adjacent public way or nearest adjacent property, whichever is closer to the source. The limitation applies from 8:00 p.m. to 8:00 a.m. unless the mechanical stationary source is subject to other operating hours pursuant to a permit or other written authorization issued by the Chicago Department of Public Health.

The Southside Recycling facility will be located in the manufacturing district PMD-6, as shown in Figure 1. There is an important exemption in that the limit does not apply to sound measured within the manufacturing district.

Based on the preceding, the site must meet 55 dBA at properties north of E. 114 St. and east of S. Avenue O.

### **4. Noise Sources**

Shiner Acoustics personnel took sound measurements of equipment at the GII Lincoln Park facility on October 21 and 22, 2020. The measurements were taken for the sources shown in Table 1 at a variety of distances, as shown in the table. For intermittent sources, GII provided the number of operations in a typical working day and these were normalized to the number of minutes of operation per hour.

Appendix B shows the equipment noise emissions in terms of sound power levels. Sound power levels are independent of measurement distance and enable the acoustic emissions of different sources to be compared.



Table 1. Noise Sources

Operation	Source type	Sound Pressure Level (Leq, dB re 20 µPa, A-weighted)	Measurement Distance (ft)	Operating Time (min/hr)
Material handler unloading a truck	Intermittent	71	95	22.5
Truck dumping highest noise	Intermittent	80	95	4.3
Truck dumping - remainder of operation	Intermittent	70	95	9.0
Front end loader pushing material	Intermittent	76	50	5.3
Front end loader loading dump truck	Intermittent	89	30	2.0
Material handler feeding infeed	Continuous	76	148	60.0
Shearing	Continuous	79	64	60.0
Shredder infeed	Continuous	66	47	60.0
RTO and filter fan	Continuous	69	130	60.0
Scrap being dumped	Continuous	79	95	60.0

## 5. Noise-Sensitive Receivers and Modeling Methodology

Noise-sensitive receivers were chosen to quantify noise from the plant at parcels surrounding the site, as shown in Figure 2.

Outdoor sound propagation calculations are based on the International Organization for Standardization (ISO) standard 9613-2. The standard considers sound sources, receivers, and factors that influence sound propagation, such as distance, ground attenuation, and screening. CadnaA software from DataKustik GmbH implements the standard and our acoustical model uses this software and standard acoustical calculations. The methodology is described in more detail in Appendix B.

The receiver grid is at a height of 1.5m (5') and all receivers are at a height of 1.5m (5').

## 6. Modeling Results

Shiner Acoustics predicted sound pressure levels at noise-sensitive receivers for the site layout shown in Figure 2.

This scenario is based on the following site plan and mitigation:

- A. Noise-producing operations in the western half of the site, as far as possible from the residences and high school to the east and northeast;
- B. Shredder with an acoustical enclosure and roof. Whereas the existing GII Lincoln Park shredder has rubber curtains and a partial roof, the proposed Southside Recycling shredder enclosure will be constructed from panels that absorb sound within the enclosure and isolate shredder noise. The panels will be 160 mm [6.3 in] thick and their construction will be a steel outer panel, batt insulation, and an inner perforated panel with 50% open area. The manufacturer (ILG) claims that the panel sound isolation is  $R_w$  48, which is approximately equivalent to sound transmission

class (STC) 48. The panels should provide good sound isolation. This source is included in the acoustical model as part of infeed noise;

- C. Multiple buildings, bins, barriers and other sound obstructions located between sound sources and receivers;
- D. The 800 hp filter fan will be enclosed; and
- E. Shipping containers used as sound barriers located to the northeast and east of the site. The containers will be stacked two to three high for a total height of 16 ft or 24 ft, respectively. There will be only two openings in the shipping container sound wall to allow for truck ingress and egress from the site.

Table 2 shows the facility’s predicted sound levels at noise-sensitive receivers. Figure 2 shows the facility site plan, noise sources, sound barriers, receivers, and sound level contours overlaid on an aerial photo.

Table 2. Predicted Facility Sound Levels

Receiver	Sound Pressure Levels (dB re 20 µPa), A-weighted	Receiver	Sound Pressure Levels (dB re 20 µPa), A-weighted
Residence 1	48	Residence 6	50
Residence 2	48	Residence 7	50
Residence 3	47	Residence 8	49
Residence 4	48	Residence 9	50
Residence 5	49	Residence 10	49

## 7. Discussion

The predictions show compliance with the Chicago noise ordinance at noise-sensitive receivers located to the east and northeast of the proposed facility.

There will likely be multiple scrap piles up to 30 ft high located to the north and east of the Southside Recycling site. Since these obstacles to sound propagation were not modelled, the predictions are conservative.

As noted in Appendix B, there is prediction uncertainty due to source noise levels, the propagation standard (ISO 9613-2), and assumptions. In addition, there are measurement uncertainties due to actual meteorological conditions, instrumentation, etc. In most cases, the predicted sound levels will be higher than measured sound levels. In other words, the prediction is generally conservative.

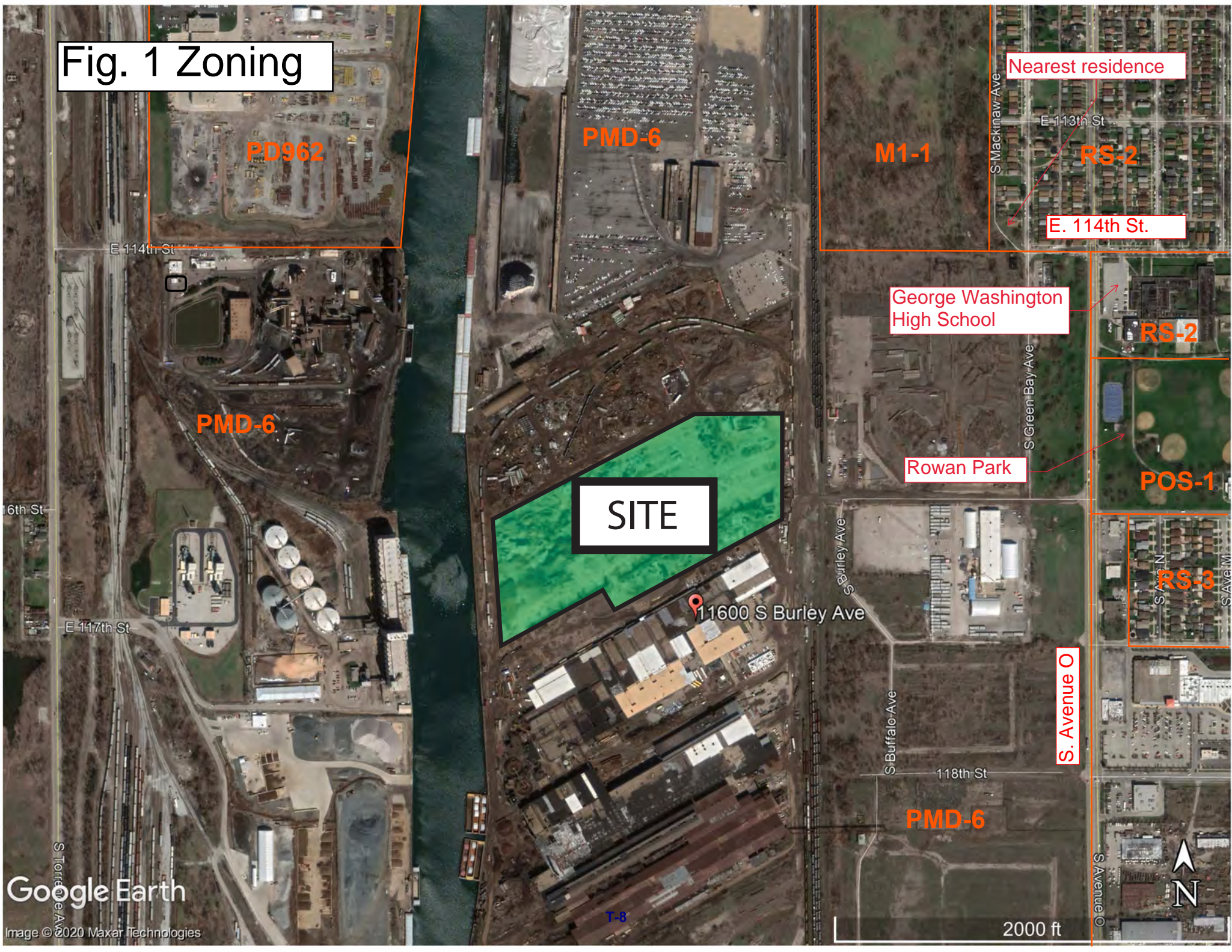
## 8. Recommendations

The proposed site plan and sound mitigation described in section 6, items A through E, is predicted to comply with the Chicago noise ordinance. No additional mitigation is recommended.

## **9. Conclusion**

The Chicago noise ordinance sets a criterion for outdoor sound levels. The analysis predicts that noise levels due to the facility with the proposed design will comply with the noise ordinance.

# Fig. 1 Zoning



T-8

Nearest residence

E. 114th St.

George Washington High School

Rowan Park

S. Avenue O



2000 ft

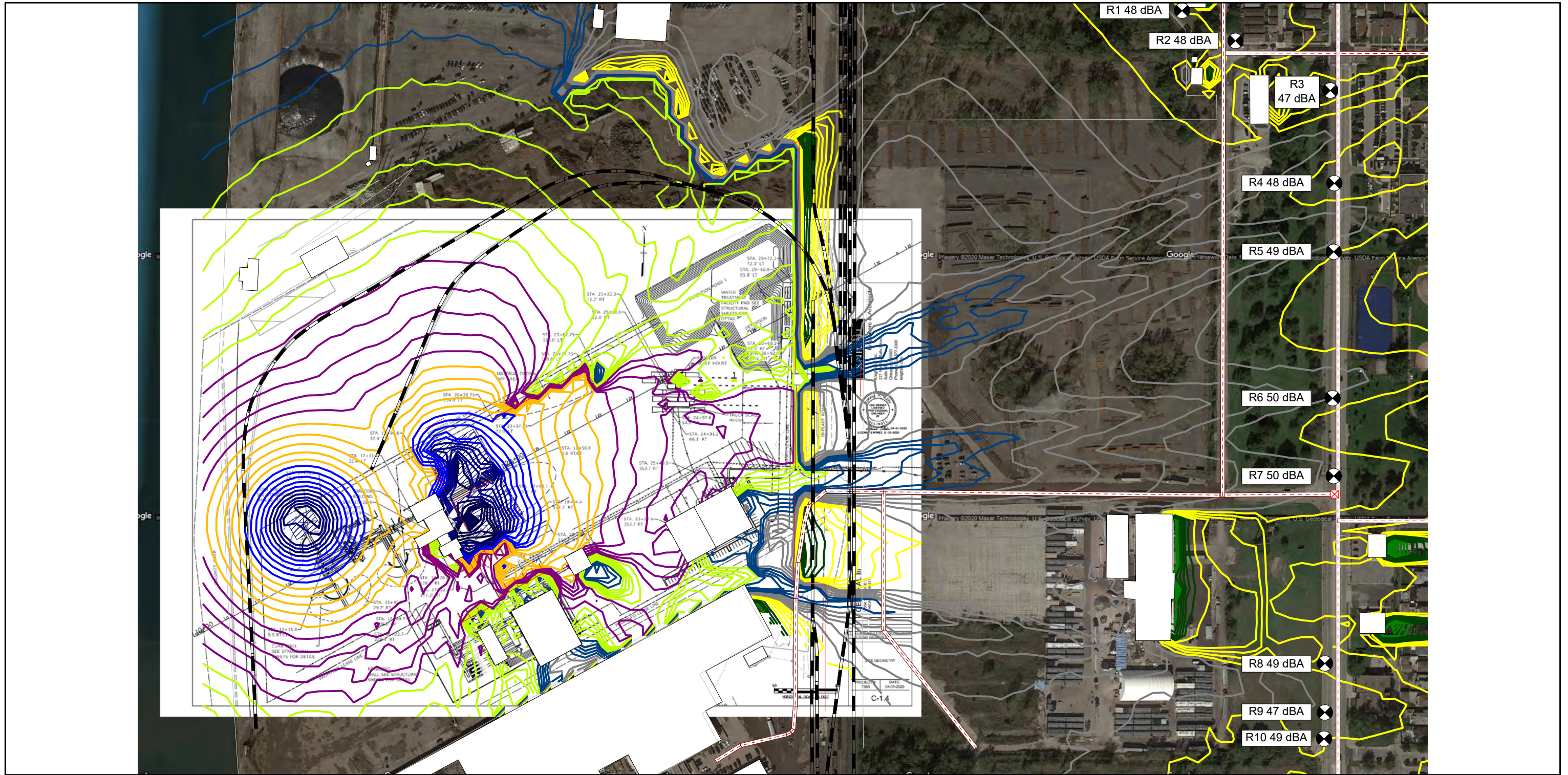


Figure 2. Southside Recycling Predicted Sound Levels  
One-hour typical operation

Noise Limit: 55 dBA

- 35 <= ... < 40 dBA
- 40 <= ... < 45 dBA
- 45 <= ... < 50 dBA
- 50 <= ... < 55 dBA
- 55 <= ... < 60 dBA
- 60 <= ... < 65 dBA
- 65 <= ... < 70 dBA
- 70 <= ... < 75 dBA
- 75 <= ... < 80 dBA
- 80 <= ... < 85 dBA
- 85 <= ... dBA

- + Point Source
- Area Source
- Road
- Crossing
- Railway
- Building
- Barrier
- Ground Absorption
- ⊗ Receiver
- Calculation Area

Scale 1 : 3003  
Units in meters  
UTM Zone 16  
Datum WGS84



Rev	Date
A	11/12/20
0	11/10/20

**Shiner Acoustics, LLC**

Appendix A. Equipment Noise Emissions

Operation	Source type	Operating Time (min/hr)	Sound Power Level (Leq, dB re 10 <sup>-12</sup> W, A-weighted)	
			Continuous Operation	Intermittent Operation
Material handler unloading a truck	Intermittent	22.5	108	104
Truck dumping highest noise	Intermittent	4.3	117	105
Truck dumping - remainder of operation	Intermittent	9.0	107	99
Front end loader pushing material	Intermittent	5.3	107	97
Front end loader loading dump truck	Intermittent	2.0	116	102
Material handler feeding infeed	Continuous	60.0	117	117
Shearing	Continuous	60.0	113	113
Shredder infeed	Continuous	60.0	97	97
RTO and filter fan	Continuous	60.0	109	109
Scrap being dumped	Continuous	60.0	119	119

## Appendix B. Outdoor Sound Modeling Methodology

Outdoor sound propagation calculations are based on the International Organization for Standardization (ISO) 9613-2. The standard predicts sound pressure levels under conditions favorable to sound propagation. The standard considers sound sources, receivers and factors that influence sound propagation: distance, screening by obstacles, ground effects, atmospheric absorption, source directivity, and reflection from surfaces. CadnaA software from DataKustik GmbH implements the standard and our acoustical model is based on this software and standard acoustical calculations.

Three sound ray reflections were used in the model to account for reflections from buildings and obstacles. The terrain surrounding the plant was modeled. We entered the essential acoustical features of the plant, such as significant obstructions and noise sources, into the program, as well as noise-sensitive receivers.

Atmospheric attenuation was based on conservative atmospheric conditions of 10°C [50°F] and 70% relative humidity. We set the ground attenuation factor G at a conservative value of 0.4 for mixed gravel inside the plant, 0.1 for concrete and asphalt paved inside the plant, and 0.3 for porous ground outside the plant; this factor can vary from 0 for water to 1 for soft, porous ground.

ISO 9613-2 specifies methods to calculate long-term average receiver sound levels under conditions favorable to sound propagation, namely downwind from the source or clear and calm nighttime conditions, to a distance of 1,000m/3,280 ft. There may be deviation between the CadnaA prediction and measured levels, however, in most cases, CadnaA will yield conservative results. The prediction uncertainty is much smaller than the uncertainty associated with source noise levels and actual meteorological conditions.

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**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment U  
Storage Tanks**



## Tier I Qualified Facility SPCC Plan

This template constitutes the SPCC Plan for the facility, when completed and signed by the owner or operator of a facility that meets the applicability criteria in §112.3(g)(1). This template addresses the requirements of 40 CFR Part 112. Maintain a complete copy of the Plan at the facility if the facility is normally attended at least four hours per day, or for a facility attended fewer than four hours per day, at the nearest field office. When making operational changes at a facility that are necessary to comply with the rule requirements, the owner/operator should follow state and local requirements (such as for permitting, design and construction) and obtain professional assistance, as appropriate.

### Facility Description

Facility Name Southside Recycling

Facility Address 11554 S. Avenue O

City Chicago State IL ZIP 60617

County Cook Tel. Number (847) 508-9170

Owner or Operator Name General III, LLC

Owner or Operator Address 11554 S. Avenue O

City Chicago State IL ZIP 60617

County Cook Tel. Number (773) 382-0123

Owner or operator Name Same as above

Owner or Operator Address Same as above

City \_\_\_\_\_ State \_\_\_\_\_ ZIP \_\_\_\_\_

County \_\_\_\_\_ Tel. Number \_\_\_\_\_

### I. Self-Certification Statement (§112.6(a)(1))

The owner or operator of a facility certifies that each of the following is true in order to utilize this template to comply with the SPCC requirements:

- I James Kallas certify that the following is accurate:
1. I am familiar with the applicable requirements of 40 CFR part 112;
  2. I have visited and examined the facility;
  3. This Plan was prepared in accordance with accepted and sound industry practices and standards;
  4. Procedures for required inspections and testing have been established in accordance with industry inspection and testing standards or recommended practices;
  5. I will fully implement the Plan;
  6. This facility meets the following qualification criteria (under §112.3(g)(1)):
    - a. The aggregate aboveground oil storage capacity of the facility is 10,000 U.S. gallons or less; and
    - b. The facility has had no single discharge as described in §112.1(b) exceeding 1,000 U.S. gallons and no two discharges as described in §112.1(b) each exceeding 42 U.S. gallons within any twelve month period in the three years prior to the SPCC Plan self-certification date, or since becoming subject to 40 CFR part 112 if the facility has been in operation for less than three years (not including oil discharges as described in §112.1(b) that are the result of natural disasters, acts of war, or terrorism); and
    - c. There is no individual oil storage container at the facility with an aboveground capacity greater than 5,000 U.S. gallons.
  7. This Plan does not deviate from any requirement of 40 CFR part 112 as allowed by §112.7(a)(2) (environmental equivalence) and §112.7(d) (impracticability of secondary containment) or include any measures pursuant to §112.9(c)(6) for produced water containers and any associated piping;
  8. This Plan and individual(s) responsible for implementing this Plan have the full approval of management and I have committed the necessary resources to fully implement this Plan.

I also understand my other obligations relating to the storage of oil at this facility, including, among others:

1. To report any oil discharge to navigable waters or adjoining shorelines to the appropriate authorities. Notification information is included in this Plan.
2. To review and amend this Plan whenever there is a material change at the facility that affects the potential for an oil discharge, and at least once every five years. Reviews and amendments are recorded in an attached log. [See Five Year Review Log and Technical Amendment Log in Attachments 1.1 and 1.2.]
3. Optional use of a contingency plan. A contingency plan:
  - a. May be used in lieu of secondary containment for qualified oil-filled operational equipment, in accordance with the requirements under §112.7(k), and;
  - b. Must be prepared for flowlines and/or intra-facility gathering lines which do not have secondary containment at an oil production facility, and;
  - c. Must include an established and documented inspection or monitoring program; must follow the provisions of 40 CFR part 109; and must include a written commitment of manpower, equipment and materials to expeditiously remove any quantity of oil discharged that may be harmful. If applicable, a copy of the contingency plan and any additional documentation will be attached to this Plan as Attachment 2.

I certify that I have satisfied the requirement to prepare and implement a Plan under §112.3 and all of the requirements under §112.6(a). I certify that the information contained in this Plan is true.

Signature \_\_\_\_\_  
 Name James Kallas

Title: Environmental Manager  
 Date: 09/29/20

## II. Record of Plan Review and Amendments

### Five Year Review (§112.5(b)):

Complete a review and evaluation of this SPCC Plan at least once every five years. As a result of the review, amend this Plan within six months to include more effective prevention and control measures for the facility, if applicable. Implement any SPCC Plan amendment as soon as possible, but no later than six months following Plan amendment. Document completion of the review and evaluation, and complete the Five Year Review Log in Attachment 1.1. If the facility no longer meets Tier I qualified facility eligibility, the owner or operator must revise the Plan to meet Tier II qualified facility requirements, or complete a full PE certified Plan.

Table G-1 Technical Amendments (§§112.5(a), (c) and 112.6(a)(2))	
This SPCC Plan will be amended when there is a change in the facility design, construction, operation, or maintenance that materially affects the potential for a discharge to navigable waters or adjoining shorelines. Examples include adding or removing containers, reconstruction, replacement, or installation of piping systems, changes to secondary containment systems, changes in product stored at this facility, or revisions to standard operating procedures.	<input checked="" type="checkbox"/>
Any technical amendments to this Plan will be re-certified in accordance with Section I of this Plan template. [§112.6(a)(2)] [See Technical Amendment Log in Attachment 1.2]	<input checked="" type="checkbox"/>

### III. Plan Requirements

#### 1. Oil Storage Containers (§112.7(a)(3)(i)):

Table G-2 Oil Storage Containers and Capacities		
This table includes a complete list of all oil storage containers (aboveground containers <sup>a</sup> and completely buried tanks <sup>b</sup> ) with capacity of 55 U.S. gallons or more, unless otherwise exempt from the rule. For mobile/portable containers, an estimated number of containers, types of oil, and anticipated capacities are provided.		<input checked="" type="checkbox"/>
Oil Storage Container (indicate whether aboveground (A) or completely buried (B))	Type of Oil	Shell Capacity (gallons)
A – Horizontal, steel tank #1	New motor oil	550
A – Horizontal, steel tank #2	New motor oil	550
A – Horizontal, steel tank #3	Used oil	275
A – Horizontal, steel tank #4	Used oil	275
A – Horizontal, steel tank #5	Hydraulic oil	500
A – Steel drums (55 gallon)	New motor oil	550 total
A – Oil filled equipment	Hydraulic/motor oil	500 total
A – Mobile fuel truck	Diesel fuel	3,800 total

**Total Aboveground Storage Capacity** <sup>c</sup> 7,000 gallons  
**Total Completely Buried Storage Capacity** 0 gallons  
**Facility Total Oil Storage Capacity** 7,000 gallons

<sup>a</sup> Aboveground storage containers that must be included when calculating total facility oil storage capacity include: tanks and mobile or portable containers; oil-filled operational equipment (e.g., transformers); other oil-filled equipment, such as flow-through process equipment. Exempt containers that are not included in the capacity calculation include: any container with a storage capacity of less than 55 gallons of oil; containers used exclusively for wastewater treatment; permanently closed containers; motive power containers; hot-mix asphalt containers; heating oil containers used solely at a single-family residence; and pesticide application equipment or related mix containers.

<sup>b</sup> Although the criteria to determine eligibility for qualified facilities focuses on the aboveground oil storage containers at the facility, the completely buried tanks at a qualified facility are still subject to the rule requirements and must be addressed in the template; however, they are not counted toward the qualified facility applicability threshold.

<sup>c</sup> Counts toward qualified facility applicability threshold.

#### 2. Secondary Containment and Oil Spill Control (§§112.6(a)(3)(i) and (ii), 112.7(c) and 112.9(c)(2)):

Table G-3 Secondary Containment and Oil Spill Control	
Appropriate secondary containment and/or diversionary structures or equipment <sup>a</sup> is provided for all oil handling containers, equipment, and transfer areas to prevent a discharge to navigable waters or adjoining shorelines. The entire secondary containment system, including walls and floor, is capable of containing oil and is constructed so that any discharge from a primary containment system, such as a tank or pipe, will not escape the containment system before cleanup occurs.	<input checked="" type="checkbox"/>

<sup>a</sup> Use one of the following methods of secondary containment or its equivalent: (1) Dikes, berms, or retaining walls sufficiently impervious to contain oil; (2) Curbing; (3) Culverting, gutters, or other drainage systems; (4) Weirs, booms, or other barriers; (5) Spill diversion ponds; (6) Retention ponds; or (7) Sorbent materials.

Table G-4 below identifies the tanks and containers at the facility with the potential for an oil discharge; the mode of failure; the flow direction and potential quantity of the discharge; and the secondary containment method and containment capacity that is provided.

Table G-4 Containers with Potential for an Oil Discharge					
Area	Type of failure (discharge scenario)	Potential discharge volume (gallons)	Direction of flow for uncontained discharge	Secondary containment method <sup>a</sup>	Secondary containment capacity (gallons)
<i>Bulk Storage Containers and Mobile/Portable Containers<sup>b</sup></i>					
550 gal motor oil (AST #1 and AST #2 )	Tank overfill, fitting leak, seam failure	<1 – 550	Radial	Containment structure	>550
275 gal used oil (AST #3 and AST #4)	Tank overfill, fitting leak, seam failure	<1 – 275	Radial	Containment structure	>275
500 gal hydraulic oil (AST #5)	Tank overfill, fitting leak, seam failure	<1 – 500	Radial	Containment structure	>500
55 gal oil/fluid drums	Fitting leak, seam failure	<1 – 55	Radial	Containment pallets	>55
Mobile diesel fuel truck	Tank overfill, fitting leak, seam failure	<1 – 3,800	Radial	Retaining walls, absorbent materials	>3,800
<i>Oil-filled Operational Equipment (e.g., hydraulic equipment, transformers)<sup>c</sup></i>					
None with container $\geq$ 55 gallons					
<i>Piping, Valves, etc.</i>					
Oil dispensing hoses and appurtenances	Fitting leak or failure, hose failure	< 1	Radial	Spill kit and absorbents	Absorbs up to 30
<i>Product Transfer Areas (location where oil is loaded to or from a container, pipe or other piece of equipment.)</i>					
Oil/fluid dispensing areas	Handling drips and spills, transfer hose failure	<1 pt – 0.5	Radial	Catch pans and spill kit	Absorbs up to 30/pans contain up to 2
<i>Other Oil-Handling Areas or Oil-Filled Equipment (e.g. flow-through process vessels at an oil production facility)</i>					
None					

<sup>a</sup> Use one of the following methods of secondary containment or its equivalent: (1) Dikes, berms, or retaining walls sufficiently impervious to contain oil; (2) Curbing; (3) Culverting, gutters, or other drainage systems; (4) Weirs, booms, or other barriers; (5) Spill diversion ponds; (6) Retention ponds; or (7) Sorbent materials.

<sup>b</sup> For storage tanks and bulk storage containers, the secondary containment capacity must be at least the capacity of the largest container plus additional capacity to contain rainfall or other precipitation.

<sup>c</sup> For oil-filled operational equipment: Document in the table above if alternative measures to secondary containment (as described in §112.7(k)) are implemented at the facility.

**3. Inspections, Testing, Recordkeeping and Personnel Training (§§112.7(e) and (f), 112.8(c)(6) and (d)(4), 112.9(c)(3), 112.12(c)(6) and (d)(4)):**

<b>Table G-5 Inspections, Testing, Recordkeeping and Personnel Training</b>	
An inspection and/or testing program is implemented for all aboveground bulk storage containers and piping at this facility. [§§112.8(c)(6) and (d)(4), 112.9(c)(3), 112.12(c)(6) and (d)(4)]	<input checked="" type="checkbox"/>
<p>The following is a description of the inspection and/or testing program (e.g., reference to industry standard utilized, scope, frequency, method of inspection or test, and person conducting the inspection) for all aboveground bulk storage containers and piping at this facility:</p> <ol style="list-style-type: none"> <li>1) An assigned knowledgeable employee performs quarterly visual inspections of the aboveground oil storage containers and secondary containment structures using Attachment 3.1 to document inspections. Visual inspections of oil storage containers follow the inspection schedule in Attachment 3.2 of this plan.</li> <li>2) An assigned knowledgeable employee inspects spill kits quarterly to check equipment serviceability and ensure fully stocked kits.</li> <li>3) The liquid level gauges on the ASTs are inspected at least biennially. Attachment 3.1 documents these inspections.</li> <li>4) Employees visually inspect the ASTs during normal work day activities for indications of deterioration and discharges.</li> <li>5) Employees inspect the AST containment structures periodically for signs of deterioration or discharges.</li> <li>6) If an employee encounters a spill during an inspection of the oil storage or transfer equipment, the employee will immediately take the necessary actions outlined in Table G-7.</li> </ol>	
Inspections, tests, and records are conducted in accordance with written procedures developed for the facility. Records of inspections and tests kept under usual and customary business practices will suffice for purposes of this paragraph. [§112.7(e)]	<input checked="" type="checkbox"/>
A record of the inspections and tests are kept at the facility or with the SPCC Plan for a period of three years. [§112.7(e)] <b>[See Inspection Log and Schedule in Attachment 3.1]</b>	<input checked="" type="checkbox"/>
Inspections and tests are signed by the appropriate supervisor or inspector. [§112.7(e)]	<input checked="" type="checkbox"/>
<b>Personnel, training, and discharge prevention procedures [§112.7(f)]</b>	
Oil-handling personnel are trained in the operation and maintenance of equipment to prevent discharges; discharge procedure protocols; applicable pollution control laws, rules, and regulations; general facility operations; and, the contents of the facility SPCC Plan. [§112.7(f)]	<input checked="" type="checkbox"/>
A person who reports to facility management is designated and accountable for discharge prevention. [§112.7(f)]  Name/Title: <u>Jim Kallas/Environmental Manager</u>	<input checked="" type="checkbox"/>
Discharge prevention briefings are conducted for oil-handling personnel annually to assure adequate understanding of the SPCC Plan for that facility. Such briefings highlight and describe past reportable discharges or failures, malfunctioning components, and any recently developed precautionary measures. [§112.7(f)] <b>[See Oil-handling Personnel Training and Briefing Log in Attachment 3.4]</b>	<input checked="" type="checkbox"/>

#### 4. Security (excluding oil production facilities) §112.7(g):

**Table G-6 Implementation and Description of Security Measures**

Security measures are implemented at this facility to prevent unauthorized access to oil handling, processing, and storage area.



The following is a description of how you secure and control access to the oil handling, processing and storage areas; secure master flow and drain valves; prevent unauthorized access to starter controls on oil pumps; secure out-of-service and loading/unloading connections of oil pipelines; address the appropriateness of security lighting to both prevent acts of vandalism and assist in the discovery of oil discharges:

- 1) All tank fill pipes are capped when not in use.
- 2) The facility is open 24 hours per day, 7 days per week.
- 3) The facility is equipped with fencing, security detail and security cameras.

#### 5. Emergency Procedures and Notifications (§112.7(a)(3)(iv) and 112.7(a)(5)):

**Table G-7 Description of Emergency Procedures and Notifications**

The following is a description of the immediate actions to be taken by facility personnel in the event of a discharge to navigable waters or adjoining shorelines [§112.7(a)(3)(iv) and 112.7(a)(5)]:

- 1) Shutdown pumping in event of a spill during any fuel/oil transfer operation.
- 2) Eliminate potential sources of ignition such as open flames or sparks.
- 3) If possible, safe, and trained to do so, identify and secure source of the discharge and contain the discharge with sorbents, sandbags, or other material from the spill kits.
- 4) Contact regulatory authorities and other response personnel and organizations (see next page).



**6. Contact List (§112.7(a)(3)(vi)):**

Table G-8 Contact List	
Contact Organization / Person	Telephone Number
National Response Center (NRC)	1-800-424-8802
Cleanup Contractor(s)  Hazchem Environmental Corp.	  630-458-1910
<b>Key Facility Personnel</b>	
Designated Person Accountable for Discharge Prevention: Jim Kallas	Office: 773-327-9600
	Emergency: (cell phone) 847-508-9170
Kevin Trant	Office: 773-327-9600
	Emergency: (cell phone) 773-332-8583
	Office:
	Emergency:
	Office:
	Emergency:
State Oil Pollution Control Agencies	
Other State, Federal, and Local Agencies	
Local Fire Department	911
Local Police Department	911
Hospital	
Other Contact References (e.g., downstream water intakes or neighboring facilities)	

**7. NRC Notification Procedure (§112.7(a)(4) and (a)(5)):**

Table G-9 NRC Notification Procedure	
In the event of a discharge of oil to navigable waters or adjoining shorelines, the following information identified in Attachment 4 will be provided to the National Response Center immediately following identification of a discharge to navigable waters or adjoining shorelines <b>[See Discharge Notification Form in Attachment 4]:</b> <i>[§112.7(a)(4)]</i>	<input checked="" type="checkbox"/>
<ul style="list-style-type: none"> <li>• The exact address or location and phone number of the facility;</li> <li>• Date and time of the discharge;</li> <li>• Type of material discharged;</li> <li>• Estimate of the total quantity discharged;</li> <li>• Estimate of the quantity discharged to navigable waters;</li> <li>• Source of the discharge;</li> </ul>	<ul style="list-style-type: none"> <li>• Description of all affected media;</li> <li>• Cause of the discharge;</li> <li>• Any damages or injuries caused by the discharge;</li> <li>• Actions being used to stop, remove, and mitigate the effects of the discharge;</li> <li>• Whether an evacuation may be needed; and</li> <li>• Names of individuals and/or organizations who have also been contacted.</li> </ul>

**8. SPCC Spill Reporting Requirements (Report within 60 days) (§112.4):**

Submit information to the EPA Regional Administrator (RA) and the appropriate agency or agencies in charge of oil pollution control activities in the State in which the facility is located within 60 days from one of the following discharge events:

- A single discharge of more than 1,000 U.S. gallons of oil to navigable waters or adjoining shorelines or
- Two discharges to navigable waters or adjoining shorelines each more than 42 U.S. gallons of oil occurring within any twelve month period

*You must submit the following information to the RA*

- (1) Name of the facility;
- (2) Your name;
- (3) Location of the facility;
- (4) Maximum storage or handling capacity of the facility and normal daily throughput;
- (5) Corrective action and countermeasures you have taken, including a description of equipment repairs and replacements;
- (6) An adequate description of the facility, including maps, flow diagrams, and topographical maps, as necessary;
- (7) The cause of the reportable discharge, including a failure analysis of the system or subsystem in which the failure occurred;
- (8) Additional preventive measures you have taken or contemplated to minimize the possibility of recurrence; and
- (9) Such other information as the Regional Administrator may reasonably require pertinent to the Plan or discharge.

## A. Onshore Facilities (excluding production) (§§112.8(b) through (d), 112.12(b) through (d)):

The owner or operator must meet the general rule requirements as well as requirements under this section. Note that not all provisions may be applicable to all owners/operators. For example, a facility may not maintain completely buried metallic storage tanks installed after January 10, 1974, and thus would not have to abide by requirements in §§112.8(c)(4) and 112.12(c)(4), listed below. In cases where a provision is not applicable, write "N/A".

Table G-10 General Rule Requirements for Onshore Facilities		N/A
Drainage from diked storage areas is restrained by valves to prevent a discharge into the drainage system or facility effluent treatment system, except where facility systems are designed to control such discharge. Diked areas may be emptied by pumps or ejectors that must be manually activated after inspecting the condition of the accumulation to ensure no oil will be discharged. [§§112.8(b)(1) and 112.12(b)(1)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Valves of manual, open-and-closed design are used for the drainage of diked areas. [§§112.8(b)(2) and 112.12(b)(2)]	<input type="checkbox"/>	<input checked="" type="checkbox"/>
The containers at the facility are compatible with materials stored and conditions of storage such as pressure and temperature. [§§112.8(c)(1) and 112.12(c)(1)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Secondary containment for the bulk storage containers (including mobile/portable oil storage containers) holds the capacity of the largest container plus additional capacity to contain precipitation. Mobile or portable oil storage containers are positioned to prevent a discharge as described in §112.1(b). [§112.6(a)(3)(ii)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
If uncontaminated rainwater from diked areas drains into a storm drain or open watercourse the following procedures will be implemented at the facility: [§§112.8(c)(3) and 112.12(c)(3)] <ul style="list-style-type: none"> <li>• Bypass valve is normally sealed closed</li> <li>• Retained rainwater is inspected to ensure that its presence will not cause a discharge to navigable waters or adjoining shorelines</li> <li>• Bypass valve is opened and resealed under responsible supervision</li> <li>• Adequate records of drainage are kept <b>[See Dike Drainage Log in Attachment 3.3]</b></li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>
For completely buried metallic tanks installed on or after January 10, 1974 at this facility [§§112.8(c)(4) and 112.12(c)(4)]: <ul style="list-style-type: none"> <li>• Tanks have corrosion protection with coatings or cathodic protection compatible with local soil conditions.</li> <li>• Regular leak testing is conducted.</li> </ul>	<input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>
For partially buried or bunkered metallic tanks [§112.8(c)(5) and §112.12(c)(5)]: <ul style="list-style-type: none"> <li>• Tanks have corrosion protection with coatings or cathodic protection compatible with local soil conditions.</li> </ul>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Each aboveground bulk container is tested or inspected for integrity on a regular schedule and whenever material repairs are made. Scope and frequency of the inspections and inspector qualifications are in accordance with industry standards. Container supports and foundations are regularly inspected. <b>[See Inspection Log and Schedule and Bulk Storage Container Inspection Schedule in Attachments 3.1 and 3.2]</b> [§112.8(c)(6) and §112.12(c)(6)(i)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Outsides of bulk storage containers are frequently inspected for signs of deterioration, discharges, or accumulation of oil inside diked areas. <b>[See Inspection Log and Schedule in Attachment 3.1]</b> [§§112.8(c)(6) and 112.12(c)(6)]	<input checked="" type="checkbox"/>	<input type="checkbox"/>
For bulk storage containers that are subject to 21 CFR part 110 which are shop-fabricated, constructed of austenitic stainless steel, elevated and have no external insulation, formal visual inspection is conducted on a regular schedule. Appropriate qualifications for personnel performing tests and inspections are documented. <b>[See Inspection Log and Schedule and Bulk Storage Container Inspection Schedule in Attachments 3.1 and 3.2]</b> [§112.12(c)(6)(ii)]	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Table G-10 General Rule Requirements for Onshore Facilities		N/A
<p>Each container is provided with a system or documented procedure to prevent overfills for the container. Describe:</p> <p><u>Tank truck delivery procedures:</u></p> <ol style="list-style-type: none"> <li>1) Manually gauge receiving tank to confirm liquid level in tank and quantity to be delivered to prevent tank overflow; tanks will not be filled beyond 90% of their capacity.</li> <li>2) Set parking brake and use chock blocks to prevent movement; inspect fittings and fueling hose for damage before starting fuel transfer operation. The fuel delivery person makes all hook-ups.</li> <li>3) Place drip pans under valve-hose fitting connections.</li> <li>4) The person responsible for monitoring the delivery will remain attentive and observe the entire fuel delivery, be prepared to stop the flow of fuel from the truck to the tank at any time, and respond to any unusual condition, leak, or spill which may occur during delivery. Secure all valves on tank truck before truck departure and inspect for leakage.</li> <li>5) Following complete delivery, the fuel delivery person is responsible for disconnecting all hook-ups.</li> <li>6) Record accurate readings for product and water in tank after fuel delivery, verify the amount of fuel received and make sure fill ports are properly secured.</li> <li>7) If an oil spill occurs, the spill kit will be used to contain the spill.</li> </ol> <p><u>Oil dispensing procedures:</u></p> <ol style="list-style-type: none"> <li>1) Do not top off container when filling.</li> <li>2) If an oil spill occurs, the spill kit will be used to contain the spill.</li> </ol> <p><u>Transfers into waste oil container:</u></p> <ol style="list-style-type: none"> <li>1) Gauge container to confirm liquid level to prevent overflow.</li> </ol>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liquid level sensing devices are regularly tested to ensure proper operation <b>[See Inspection Log and Schedule in Attachment 3.1].</b> <i>[\$112.6(a)(3)(iii)]</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Visible discharges which result in a loss of oil from the container, including but not limited to seams, gaskets, piping, pumps, valves, rivets, and bolts are promptly corrected and oil in diked areas is promptly removed. <i>[\$112.8(c)(10) and 112.12(c)(10)]</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Aboveground valves, piping, and appurtenances such as flange joints, expansion joints, valve glands and bodies, catch pans, pipeline supports, locking of valves, and metal surfaces are inspected regularly. <b>[See Inspection Log and Schedule in Attachment 3.1]</b> <i>[\$112.8(d)(4) and 112.12(d)(4)]</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Integrity and leak testing are conducted on buried piping at the time of installation, modification, construction, relocation, or replacement. <b>[See Inspection Log and Schedule in Attachment 3.1]</b> <i>[\$112.8(d)(4) and 112.12(d)(4)]</i>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**ATTACHMENT 1 – Five Year Review and Technical Amendment Logs**

**ATTACHMENT 1.1 – Five Year Review Log**

By signing below, I am certifying that I have completed a review and evaluation of the SPCC Plan for this facility, and will/will not amend this Plan as a result.

<b>Table G-13 Review and Evaluation of SPCC Plan for Facility</b>			
Review Date	Plan Amendment		Name and signature of person authorized to review this Plan
	Will Amend	Will Not Amend	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="checkbox"/>	<input type="checkbox"/>	

Any technical amendments to this Plan will be re-certified in accordance with Section I of this Plan template.

**Table G-15 Description and Certification of Technical Amendments**

Review Date	Description of Technical Amendment	Name and signature of person certifying this technical amendment

**ATTACHMENT 1.2 – Technical Amendment Log**

## ATTACHMENT 2 – Oil Spill Contingency Plan and Checklist;

An oil spill contingency plan and written commitment of resources is required for:

- Flowlines and intra-facility gathering lines at oil production facilities; and
- Qualified oil-filled operational equipment which has no secondary containment. NOT APPLICABLE

An oil spill contingency plan meeting the provisions of 40 CFR part 109, as described below, and a written commitment of manpower, equipment and materials required to expeditiously control and remove any quantity of oil discharged that may be harmful is attached to this Plan.	<input type="checkbox"/>
--	--------------------------

Complete the checklist below to verify that the necessary operations outlined in 40 CFR part 109 - Criteria for State, Local and Regional Oil Removal Contingency Plans - have been included.

Table G-15 Checklist of Development and Implementation Criteria for State, Local and Regional Oil Removal Contingency Plans (§109.5) <sup>a</sup>	
(a) Definition of the authorities, responsibilities and duties of all persons, organizations or agencies which are to be involved in planning or directing oil removal operations.	<input type="checkbox"/>
(b) Establishment of notification procedures for the purpose of early detection and timely notification of an oil discharge including: <ul style="list-style-type: none"> <li>(1) The identification of critical water use areas to facilitate the reporting of and response to oil discharges.</li> <li>(2) A current list of names, telephone numbers and addresses of the responsible persons (with alternates) and organizations to be notified when an oil discharge is discovered.</li> <li>(3) Provisions for access to a reliable communications system for timely notification of an oil discharge, and the capability of interconnection with the communications systems established under related oil removal contingency plans, particularly State and National plans (e.g., NCP).</li> <li>(4) An established, prearranged procedure for requesting assistance during a major disaster or when the situation exceeds the response capability of the State, local or regional authority.</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
(c) Provisions to assure that full resource capability is known and can be committed during an oil discharge situation including: <ul style="list-style-type: none"> <li>(1) The identification and inventory of applicable equipment, materials and supplies which are available locally and regionally.</li> <li>(2) An estimate of the equipment, materials and supplies which would be required to remove the maximum oil discharge to be anticipated.</li> <li>(3) Development of agreements and arrangements in advance of an oil discharge for the acquisition of equipment, materials and supplies to be used in responding to such a discharge.</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
(d) Provisions for well defined and specific actions to be taken after discovery and notification of an oil discharge including: <ul style="list-style-type: none"> <li>(1) Specification of an oil discharge response operating team consisting of trained, prepared and available operating personnel.</li> <li>(2) Predesignation of a properly qualified oil discharge response coordinator who is charged with the responsibility and delegated commensurate authority for directing and coordinating response operations and who knows how to request assistance from Federal authorities operating under existing national and regional contingency plans.</li> <li>(3) A preplanned location for an oil discharge response operations center and a reliable communications system for directing the coordinated overall response operations.</li> <li>(4) Provisions for varying degrees of response effort depending on the severity of the oil discharge.</li> <li>(5) Specification of the order of priority in which the various water uses are to be protected where more than one water use may be adversely affected as a result of an oil discharge and where response operations may not be adequate to protect all uses.</li> <li>(6) Specific and well defined procedures to facilitate recovery of damages and enforcement measures as provided for by State and local statutes and ordinances.</li> </ul>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

<sup>a</sup> The contingency plan must be consistent with all applicable state and local plans, Area Contingency Plans, and the National Contingency Plan (NCP)

**ATTACHMENT 3 – Inspections, Dike Drainage and Personnel Training Logs**

**ATTACHMENT 3.1 – Inspection Log and Schedule**

**Table G-16 Inspection Log and Schedule**  
 This log is intended to document compliance with §§112.6(a)(3)(iii), 112.8(c)(6), 112.8(d)(4), 112.9(b)(2), 112.9(c)(3), 112.9(d)(1), 112.9(d)(4), 112.12.(c)(6), and 112.12(d)(4), as applicable.

Date of Inspection	Container / Piping / Equipment	Describe Scope (or cite Industry Standard)	Observations	Name/ Signature of Inspector	Records maintained separately <sup>a</sup>
	ASTs <ul style="list-style-type: none"> <li>• 550 gal motor oil ASTs</li> <li>• 275 gal used oil ASTs</li> <li>• 500 gal hydraulic oil AST</li> <li>• 55 gal steel drums</li> </ul>	Quarterly visual inspections as all containers meet Category 1 criteria.			<input type="checkbox"/>
	Liquid level gauges	Biennial inspections.			<input type="checkbox"/>
	Spill kits	Quarterly visual inspections and equipment/supply inventory.			<input type="checkbox"/>
	Mobile fuel truck	Quarterly visual inspections.			<input type="checkbox"/>

<sup>a</sup> Indicate in the table above if records of facility inspections are maintained separately at this facility.



**ATTACHMENT 3.2 – Bulk Storage Container Inspection Schedule – onshore facilities (excluding production):**

To comply with integrity inspection requirement for bulk storage containers, inspect/test each shop-built aboveground bulk storage container on a regular schedule in accordance with a recognized container inspection standard based on the minimum requirements in the following table.

<b>Table G-17 Bulk Storage Container Inspection Schedule</b>	
<b>Container Size and Design Specification</b>	<b>Inspection requirement</b>
Portable containers (including drums, totes, and intermodal bulk containers (IBC)):  - 55 gal steel drums	Visually inspect quarterly for signs of deterioration, discharges or accumulation of oil inside containment pallets.
55 to 1,100 gallons with sized secondary containment:  - AST #1, AST #2, AST #3, AST #4 and AST#5	Visually inspect quarterly for signs of deterioration, discharges or accumulation of oil inside containment area plus any annual inspection elements per industry inspection standards.
1,101 to 5,000 gallons with sized secondary containment and a means of leak detection <sup>a</sup> :  - Mobile fuel truck	

<sup>a</sup> Examples of leak detection include, but are not limited to, double-walled tanks and elevated containers where a leak can be visually identified.

**ATTACHMENT 3.3 – Dike Drainage Log**

**Table G-18 Dike Drainage Log**

Date	Bypass valve sealed closed	Rainwater inspected to be sure no oil (or sheen) is visible	Open bypass valve and reseal it following drainage	Drainage activity supervised	Observations	Signature of Inspector
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

**ATTACHMENT 3.4 – Oil-handling Personnel Training and Briefing Log**

**Table G-19 Oil-Handling Personnel Training and Briefing Log**

Date	Description / Scope	Attendees

In the event of a discharge of oil to navigable waters or adjoining shorelines, the following information will be provided to the National Response Center [also see the notification information provided in Section 7 of the Plan]:

Table G-20 Information provided to the National Response Center in the Event of a Discharge			
Discharge/Discovery Date		Time	
Facility Name			
Facility Location (Address/Lat-Long/Section Township Range)			
Name of reporting individual		Telephone #	
Type of material discharged		Estimated total quantity discharged	Gallons/Barrels
Source of the discharge		Media affected	<input type="checkbox"/> Soil
			<input type="checkbox"/> Water (specify)
			<input type="checkbox"/> Other (specify)
Actions taken			
Damage or injuries	<input type="checkbox"/> No <input type="checkbox"/> Yes (specify)	Evacuation needed?	<input type="checkbox"/> No <input type="checkbox"/> Yes (specify)
Organizations and individuals contacted	<input type="checkbox"/> National Response Center 800-424-8802 Time		
	<input type="checkbox"/> Cleanup contractor (Specify) Time		
	<input type="checkbox"/> Facility personnel (Specify) Time		
	<input type="checkbox"/> State Agency (Specify) Time		
	<input type="checkbox"/> Other (Specify) Time		



**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment V  
Air Quality Impact Assessment**



**Air Dispersion Modeling Report  
for Assessment of Particulate PM<sub>10</sub> Impact  
General III, LLC (d/b/a/ Southside Recycling)  
– Chicago, Illinois**

**November 11, 2020**

**R17421-7.1**

***Prepared for:***

**Southside Recycling  
11600 S. Burley Avenue  
Chicago, Illinois 60617**

***Prepared by:***

**Darina Demirev  
Senior Engineer  
RK & Associates, Inc.**



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Appendix B	Non-Ferrous Material Processing Figures and Tables
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## 1.0 INTRODUCTION

General III, LLC (GIII), d/b/a/ Southside Recycling, has received a construction permit from the Illinois Environmental Protection Agency (IEPA), Permit Number 19090021, to construct a new scrap metal recycling facility (Facility) in Cook County at 11600 South Burley Avenue in Chicago, Illinois. A Site Location Map and Facility Layout Map are presented in Figures 1-1 and 1-2.

Southside Recycling's facility will be a state-of-the-art metal recycling facility located in the heart of an industrial district well buffered from residential properties. The proposed new metal shredder and material processing operations will utilize the latest technology to create a clean, efficient, and environmentally sensitive plant.

Southside Recycling will receive and shred mixed recyclables in various forms to produce uniform grades of ferrous and non-ferrous metals. Proposed scrap handling and processing activities include receiving, sorting, shredding, metal separation, and recovery of ferrous and non-ferrous metals.

City of Chicago Department of Public Health (CDPH) has published Rules for Large Recycling Facilities effective June 5, 2020 (corrected June 19, 2020). Section 3.9.21.1. Air Quality Impact Assessment requires an air dispersion modeling study to evaluate the impact of facility PM<sub>10</sub> emissions and the following metal emissions: antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, and selenium.

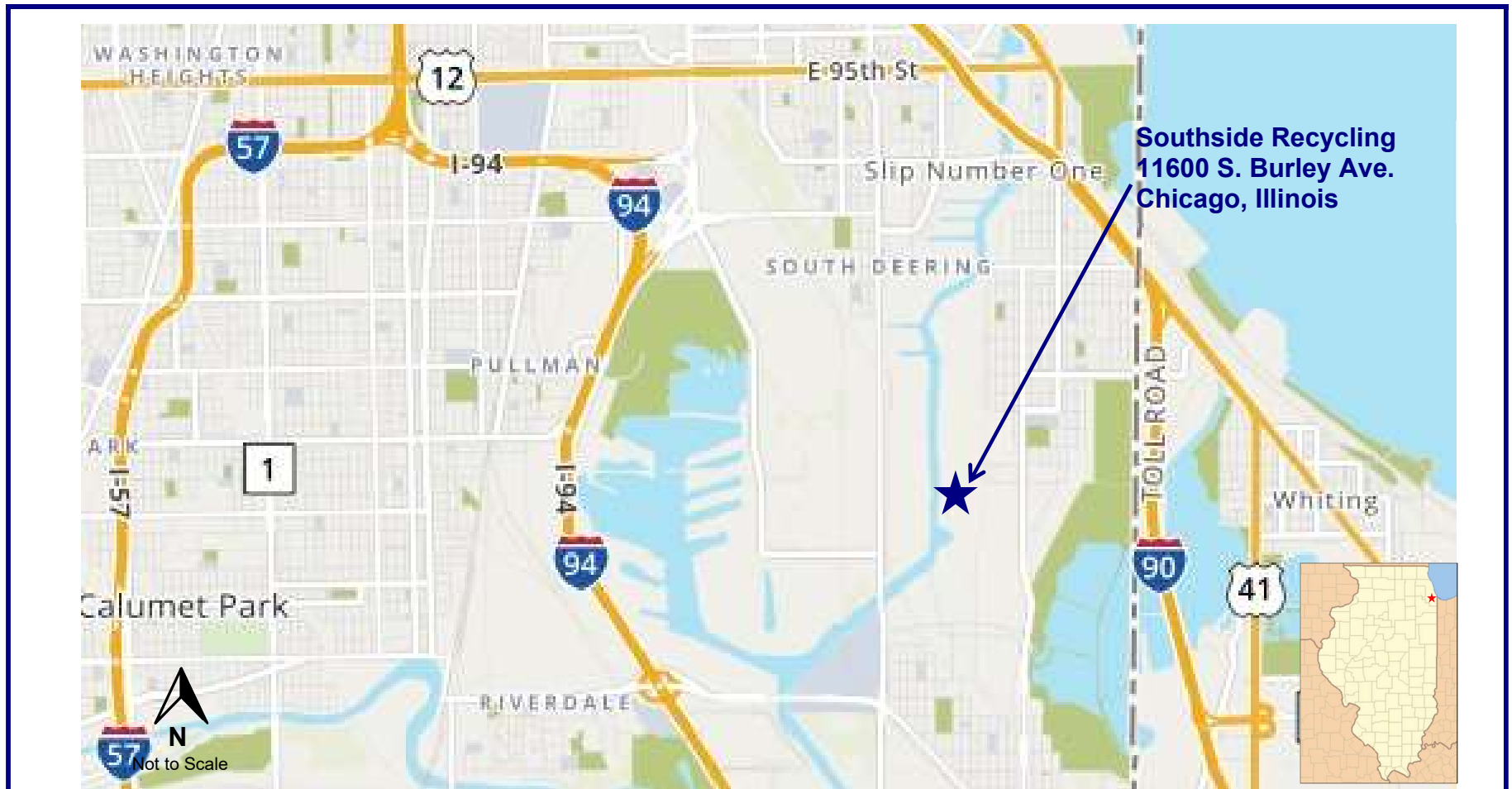
Southside Recycling has previously performed air dispersion modeling for the above listed metals as part of the construction permit application with the IEPA. The following documents previously submitted to IEPA were provided to CDPH for review with the regards to the metal modeling:

- Air Dispersion Modeling Report for Assessment of Metal Emission Impacts Submitted: January 24, 2020
- Supplement No.1 to the January 24, 2020 Air Dispersion Modeling Report for Assessment of Metal Emission Impacts Submitted: February 12, 2020
- Written Comments on Draft Construction Permit 19090021 Submitted: June 15, 2020

In this study, Southside Recycling performed a dispersion modeling of facility PM<sub>10</sub> emissions. Results from both modeling analyses demonstrate that the impact of Southside Recycling operations is within acceptable published health-based standards.

### 1.1 Facility Location and Contact Information

<u>Business Name:</u>	Southside Recycling
<u>Source Location:</u>	11600 South Burley – Chicago, Illinois 60617 Hyde Park Township, Cook County Illinois
<u>Latitude/Longitude</u>	41.685201° N / -87.545847° W – Approximate Location of Front Gate
<u>Office/Mailing Address:</u>	1909 N. Clifton Avenue – Chicago, Illinois 60614
<u>Southside Recycling</u>	Mr. Jim Kallas - Environmental Manager 847-508-9170 – <a href="mailto:jimkallas@general-iron.com">jimkallas@general-iron.com</a>
<u>IEPA Site ID No.:</u>	031600SFX
<u>IEPA Draft Construction Permit:</u>	19090021
<u>SIC Code:</u>	5093 – Scrap and Waste Materials
<u>NAICS Code:</u>	423930 – Recyclable Material Merchant Wholesalers
<u>RKA Contact for This Document</u>	John Pinion - Principal Engineer 2S631 Route 59, Suite B - Warrenville, Illinois 60555 630-393-9000 - <a href="mailto:jpinion@rka-inc.com">jpinion@rka-inc.com</a>



25631 ROUTE 59, SUITE B  
WARRENVILLE, IL 60555  
630-393-9000/630-393-9111

& ASSOCIATES, INC.

COMMENTS:

**Air Dispersion Modeling Report for the  
Assessment of PM<sub>10</sub> Emission Impacts**

DRAWN BY: \_\_\_\_\_

APPROVED BY: \_\_\_\_\_

JGP

PROJECT NUMBER

R19439-7.10

DATE DRAWN:

10-2020

REVISED DATE

**Site Location Map  
Southside Recycling  
11600 S. Burley, Chicago, Illinois**

FIGURE

**1-1**



2S631 ROUTE 59, SUITE B  
WARRENVILLE, IL 60555  
630-393-9000/630-393-9111

COMMENTS:  
**Air Dispersion Modeling  
Report for the  
Assessment of PM<sub>10</sub>  
Emission Impacts**

**Facility Map  
Southside Recycling  
11600 S. Burley, Chicago, IL**

FIGURE  
**1-2**

DRAWN BY:

APPROVED BY:  
JGP

PROJECT NUMBER:  
R19439-7.10

DATE DRAWN:  
10-2020

REVISED DATE

## 2.0 EMISSION SOURCES

The proposed Southside Recycling facility will consist of the following operations:

- Raw material receiving and handling;
- Hammermill shredder;
- Ferrous separation and material processing; and,
- Non-ferrous separation and material processing.

Southside Recycling particulate emission sources will include:

- Metal shredder controlled by a cyclone, roll-media particulate filter, Regenerative Thermal Oxidizer (RTO), quench, and packed tower scrubber;
- Ferrous Material Processing System –conveyor transfer points, magnetic separators, stockpiles, and material loadout;
- Non-Ferrous Material Processing System - feed hopper, conveyor transfer points, magnetic separators, screens, vibratory feed tables, stockpiles and material loadout, a small slow speed shredder, induction sortation systems, eddy current systems and a baghouse for control of emission sources located in the fines processing building; and,
- Vehicular emissions from Paved and Unpaved Areas (fugitive emissions)

PM<sub>10</sub> emission calculations are discussed in the following sections. The modeled PM<sub>10</sub> emission rates in this study are consistent with the permitted PM<sub>10</sub> emission limits in IEPA Construction Permit 19070006.

### 2.1 Shredder Emissions

Southside Recycling shredder emissions will be captured by the capture hood and discharged through a cyclone, roll-media particulate filter, RTO, quench, and packed tower scrubber. The scrubber discharge stack is modeled as a point source having the following parameters:

Stack Height:	41 ft
Stack Diameter:	6 ft
Exhaust Flow Rate:	73,500 acfm
Exhaust Temperature:	100°F

Particulate emission rates from the proposed Southside Recycling shredder are estimated based upon the results of November 14, 2019, metal emission testing performed at the existing GII metal shredder controlled by the cyclone, roll-media particulate filter, RTO, quench, and packed tower scrubber. The same particulate emission factor (in units of pounds of PM emitted per ton of shredder feed) was applied to the proposed shredder feed rate for the new Southside Recycling shredder. Emissions are shown in Table 2-1.

**Table 2-1 PM<sub>10</sub> Emission Rate for Shredder**

<b>Shredder PM/PM<sub>10</sub> Emission Estimate</b>			
<b>Parameter</b>	<b>Units</b>	<b>Values</b>	<b>Comment</b>
Controlled Emission Factor <sup>a</sup>	lb PM/ton fed	0.0047	Emission Factor from November 14, 2019, emission testing at GII.
Average Hourly Feed Rate	tons/hour	500	Monthly average hourly feed rate.
Safety Factor		<b>2.00</b>	
PM/PM <sub>10</sub> Emissions	Pounds/hour	4.70	Permitted filterable PM/PM <sub>10</sub> emission rates. (Assumes that all PM is PM <sub>10</sub> )

- a. Filterable PM emission rate measured by USEPA Methods 1 through 4 and Method 29.
- b. Assumes that uncaptured PM emissions are negligible.

## 2.2 Ferrous Material Processing

The Ferrous Material Processing System consists of multiple conveyors, magnetic separators, stockpiles, and material loadout.

For the purpose of modeling, emission sources that are spatially close together are combined into separate volume sources. The Ferrous Material Processing System emission sources have been grouped into thirteen (13) volume sources, V-1 through V-13. A layout drawing of the Ferrous Material Processing System and grouping of sources is included in the metals modeling report submitted to IEPA.

PM<sub>10</sub> emissions from ferrous material processing are shown in Table A-1, in Appendix A. PM<sub>10</sub> emissions from stockpile sources are shown in Table A-2. Emissions from stockpiles are different during the time piles are active and when piles are inactive. Total emissions for each volume source, including material processing emissions, stockpile emissions, are shown in Table A-3a for barge loading and in Table A-3b for non-barge loading.

## 2.3 Non-Ferrous Material Processing

The Non-Ferrous Material Processing System consists of multiple feed hoppers, conveyor transfer points, magnetic separators, screens, vibratory feed tables, stockpiles, and material loadout. Emission sources have been grouped into six (6) volume sources, VN-1 through VN-6. A layout drawing of the Non-Ferrous Material Processing System and grouping of sources is included in the metals modeling report submitted to IEPA.

PM<sub>10</sub> emissions from non-ferrous material processing are shown in Table B-1, in Appendix B. PM<sub>10</sub> emissions from stockpile sources are shown in Table B-2. Emissions from stockpiles are different during the time piles are active and when piles are inactive. Total emissions for each volume source, including material processing emissions and stockpile emissions, are shown in Table B-3.



The Non-Ferrous Material Processing System includes a Fines Processing System that is located in a building. Emissions from the fines processing equipment are ducted to one of four identical dust collectors. Three of the dust collectors exhaust treated air back into the building and the fourth dust collector exhausts treated air to the outside atmosphere. Emissions from the single dust collector that exhausts to the atmosphere will be modeled as a point source with the following parameters:

Stack Height:	47 ft
Stack Diameter:	2 ft
Exhaust Flow Rate:	12,000 acfm
Exhaust Temperature:	Ambient

Baghouse manufacturer guaranteed concentration of PM/PM10 is 0.005 gr/dscf. Therefore, PM<sub>10</sub> emission rate is estimated to be 0.0086 lb/hr.

## **2.4 Vehicle Traffic**

The vast majority of material received at the proposed facility will be delivered by semi-trailers and the remaining portion will enter the facility in pickup truck sized vehicles driven by peddlers. Vehicles will enter the facility through a controlled gate and travel over a weigh scale before being routed to a designated unloading area. Proposed vehicle routes and emission calculations are discussed in the metal modeling report submitted to IEPA.

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### 3.0 DISPERSION MODELING

Dispersion modeling was performed to predict the maximum impact from Southside Recycling sources. AERMOD dispersion model Version 19191, AIRMET Version 19191, AERMINUTE Version 15272, AERMAP Version 18081, and AIRSURFACE Version 13016 was used in this modeling analysis.

#### 3.1 Meteorological Data

Surface meteorological data used in the modeling was obtained from the National Weather Service at the Midway Airport Station for the years 2012 through 2016. Wind data was downloaded as 1-minute average ASOS data and processed using AERMINUTE. Upper air data for the same period was obtained from the coincident upper air sounding station at Davenport, Iowa. Surface and upper air data were preprocessed with AERMET using surface parameters from AIRSURFACE.

#### 3.2 Terrain Data

Receptor elevations, source elevations, and building elevations were obtained by running AERMAP, using National Elevation Dataset (NED) files downloaded from USGS website.

#### 3.3 Ambient Air Boundaries

There is security fencing on the north boundary and the northern part of the east boundary of the RMG industrial campus property that leads to a guard shack with gates (open when occupied or closed when unoccupied). The southern boundary of the RMG industrial campus property is a combination of fencing and berm, while the west boundary is the Calumet River.

Based on the above, ambient air boundaries have been set at the RMG industrial campus property boundaries shown in Figure 1-2.

#### 3.4 Receptor Network

A Cartesian receptor grid is placed around the property lines up to 5 km from the property line as follows:

- 50 m apart along the property line
- 100 m extending from the fence line to 2 km
- 500 m apart from 2 km to 5 km

### **3.5 Building Downwash**

Downwash parameters were developed based on information provided by Reserve Management Group (RMG) for existing buildings and Southside Recycling for proposed buildings. Structure coordinates were obtained for existing buildings from Google Earth and for proposed buildings from Southside Recycling site plans. Building heights for existing buildings were obtained from direct measurements taken by RMG representatives and for the proposed building from facility site plans.

### **3.6 PM<sub>10</sub> Modeling**

PM<sub>10</sub> modeling was performed to identify off site impacts for comparison to the National Ambient Air Quality Standard (NAAQS) for PM<sub>10</sub>, which is a 24-hour average of 150 µg/m<sup>3</sup>, not to be exceeded more than once per year on average over 3 years.

The method to model PM<sub>10</sub> consists of calculating the highest 6<sup>th</sup>-high 24-hour average concentration for the five year period of 2012 through 2016.

**4.0 MODELING RESULTS**

The results of this modeling assessment demonstrate that the predicted worst case off-site ambient impact is below the National Ambient Air Quality Standard (NAAQS) for PM<sub>10</sub>.

**4.1 Predicted PM<sub>10</sub> Impacts**

Modeling for PM<sub>10</sub> was performed following US EPA modeling guidance.

Southside Recycling’s predicted highest 6<sup>th</sup> high 24-hour average concentration over a period of five years is 29.37  $\mu\text{g}/\text{m}^3$ . This compares to an estimated background concentration of 77  $\mu\text{g}/\text{m}^3$  measured at IEPA’s ambient air monitor located at Washington High School.

**Table 4-1 – Summary of PM<sub>10</sub> Predicted Impacts**

Pollutant	Meteorological Data	Averaging Period	Rank	AERMOD Predicted Concentration ( $\mu\text{g}/\text{m}^3$ )	Coordinates	
					East (m)	West (m)
PM <sub>10</sub>	2012 - 2016	24-HR	6TH	29.37	454091	4614866

**Comparison of Modeling Results to NAAQS Standard for PM<sub>10</sub>**

Parameter	Units	24-Hour Average
PM <sub>10</sub> NAAQS Standard	$\mu\text{g}/\text{m}^3$	150.00
Maximum Predicted PM <sub>10</sub> Impact	$\mu\text{g}/\text{m}^3$	29.37
Predicted Impact Meets Standard	Yes/No	<b>YES</b>

A map showing the model receptor grid, AERMOD predicted Southside Recycling PM<sub>10</sub> concentrations, and PM<sub>10</sub> concentration isopleths is shown in Appendix C.

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**Air Dispersion Modeling Report  
for Assessment of Particulate PM<sub>10</sub> Impact  
Southside Recycling – Chicago, Illinois**

**November 2020**

**Appendix A  
Ferrous Material Processing**

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**Table A-1 - Ferrous Material Processing - PM<sub>10</sub> Emissions**  
**General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Barge Loading			Non-Barge Loading		
		ID #	Description									Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr	Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr
V-1	55		Truck Dumping of Raw Feed	Unprepared	5.4 <sup>a2</sup>	Outside	N		0%	0%	Drop	300	0.00060 <sup>c</sup>	0.1796	300	0.00060 <sup>c</sup>	0.1796
V-1	56		Raw Feed from Ground after Truck Dumping	Unprepared	5.4 <sup>a2</sup>	Outside	N		0%	0%	Drop	300	0.00060 <sup>c</sup>	0.1796	300	0.00060 <sup>c</sup>	0.1796
V-1	59	Magnet/	Drop Raw Scrap to Infeed Conveyor	Unprepared	N <sup>a4</sup>	Outside	N		NA	0%	D	500	0.00010 <sup>f</sup>	0.0500	500	0.00010 <sup>f</sup>	0.0500
<b>Total Filterable PM10 Emissions</b>														<b>0.4092</b>		<b>0.4092</b>	
V-2	37	E-01	Drop Raw Scrap onto Shredder Feed Chute	Unprepared	Y <sup>a4</sup>	Outside	N		NA	0%	A	500	0.00005 <sup>d</sup>	0.0230	500	0.00005 <sup>d</sup>	0.0230
V-2	40	E-05	Shredder Under Mill Vibratory Conveyor	Shred	Y	Inside	N		NA	0%	A	500	0.00005 <sup>d</sup>	0.0230	500	0.00005 <sup>d</sup>	0.0230
V-2	79	E-02	Shredder Bottom Discharge	Shred	Y	shredder emissions			0%	0%	A						
V-2	81	E-02	Shredder Chute	Unprepared	Y	shredder emissions			0%	0%	A						
<b>Total Filterable PM10 Emissions</b>														<b>0.0460</b>		<b>0.0460</b>	
V-3	4	C-001	Shredded Material Transfer Conveyor	Shred	Y	Outside	N		NA	0%	A	500	0.00005 <sup>d</sup>	0.0230	500	0.00005 <sup>d</sup>	0.0230
V-3	5	C-002	Shredded Material Transfer Conveyor	Shred	Y	Outside	N		NA	0%	A	1	0.00005 <sup>d</sup>		1	0.00005 <sup>d</sup>	
V-3	6	C-002	Mat'l Not Removed by Poker Picker	Shred	Y	Outside	N		NA	0%	A	499	0.00005 <sup>d</sup>	0.0230	499	0.00005 <sup>d</sup>	0.0230
<b>Total Filterable PM10 Emissions</b>														<b>0.0460</b>		<b>0.0460</b>	
V-4	58	-	Poker Loadout	Pokers	N	Outside	N		0%	0%	D	1	0.00010 <sup>f</sup>	0.0001	1	0.00010 <sup>f</sup>	0.0001
V-4	62	E-06	Poker Picker Chute to Stockpile	Shred	1.5% <sup>a1</sup>	Outside	N		0%	0%	Drop	1	0.00360 <sup>c</sup>	0.0036	1	0.00360 <sup>c</sup>	0.0036
<b>Total Filterable PM10 Emissions</b>														<b>0.0037</b>		<b>0.0037</b>	

**Table A-1 - Ferrous Material Processing - PM<sub>10</sub> Emissions**  
**General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Barge Loading			Non-Barge Loading				
		ID #	Description									Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr	Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr		
		V-5	7									C-003	Ferrous Transfer Conveyor	Residue	Y	Outside	N		NA
V-5	8	C-003	Ferrous Transfer Conveyor	Ferrous	Y	Outside	N		NA	0%	A	369	0.00005 <sup>d</sup>	0.0170	369	0.00005 <sup>d</sup>	0.0170		
V-5	31	C-032	ASR Transfer Conveyor	Residue	Y	Outside	N		NA	0%	A	4	0.00005 <sup>d</sup>	0.0002	4	0.00005 <sup>d</sup>	0.0002		
V-5	32	C-033	Magnetic Material	Shred	Y	Outside	N		NA	0%	A	5	0.00005 <sup>d</sup>	0.0002	5	0.00005 <sup>d</sup>	0.0002		
V-5	33	C-033	ASR Not Removed by Magnet E-12	Residue	Y	Outside	N		NA	0%	A	129	0.00005 <sup>d</sup>	0.0059	129	0.00005 <sup>d</sup>	0.0059		
V-5	34	C-034	Ferrous Transfer Conveyor	Shred	Y	Outside	N		NA	0%	A	5	0.00005 <sup>d</sup>	0.0002	5	0.00005 <sup>d</sup>	0.0002		
V-5	35	C-035	Ferrous Transfer Conveyor	Shred	Y	Outside	N		NA	0%	A	5	0.00005 <sup>d</sup>	0.0002	5	0.00005 <sup>d</sup>	0.0002		
V-5	36	C-036	ASR Transfer Conveyor	Residue	Y	Outside	N		NA	0%	A	129	0.00005 <sup>d</sup>	0.0059	129	0.00005 <sup>d</sup>	0.0059		
V-5	41	E-07	Magnet Discharge to Chute	Shred	Y	Outside	N		NA	0%	A	187	0.00005 <sup>d</sup>	0.0086	187	0.00005 <sup>d</sup>	0.0086		
V-5	42	E-07	Magnet Discharge to Chute	Shred	Y	Outside	N		NA	0%	A	187	0.00005 <sup>d</sup>	0.0086	187	0.00005 <sup>d</sup>	0.0086		
V-5	49	E-12	Ferrous Removed by Magnet	Ferrous	Y	Outside	N		NA	0%	A	5	0.00005 <sup>d</sup>	0.0002	5	0.00005 <sup>d</sup>	0.0002		
V-5	53	E-7	ASR Not Removed by Magnet	Shred	Y <sup>a3</sup>	Outside	N		NA	0%	A	2	0.00005 <sup>d</sup>	0.0001	2	0.00005 <sup>d</sup>	0.0001		
V-5	54	E-7	Ferrous Removed by Magnet E-7	Residue	Y	Outside	N		NA	0%	A	185	0.00005 <sup>d</sup>	0.0085	185	0.00005 <sup>d</sup>	0.0085		
<b>Total Filterable PM10 Emissions</b>														<b>0.0616</b>			<b>0.0616</b>		
V-6	61	C-037	ASR Transfer Conveyor to Stockpile	Residue	10 <sup>a3</sup>	Outside	N		0%	0%	Drop	129	0.00025 <sup>c</sup>	0.0326	129	0.00025 <sup>c</sup>	0.0326		

**Table A-1 - Ferrous Material Processing - PM<sub>10</sub> Emissions**  
**General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Barge Loading			Non-Barge Loading		
		ID #	Description									Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr	Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr
		V-7	9									C-006	Ferrous Transfer Conveyor	Shred	Y	Outside	Y
V-7	10	C-007	Ferrous Transfer Conveyor	Shred	Y	Outside	Y	Z-Box Air Loop	100%	100%	A	183	0.00005 <sup>d</sup>	0.0000	183	0.00005 <sup>d</sup>	0.0000
V-7	21	C-022	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	55	0.00005 <sup>d</sup>	0.0025	55	0.00005 <sup>d</sup>	0.0025
V-7	22	C-023	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	55	0.00005 <sup>d</sup>	0.0025	55	0.00005 <sup>d</sup>	0.0025
V-7	23	C-024	Non-metallic transfer conveyor	Ferrous	Y	Outside	N		NA	0%	A	4	0.00005 <sup>d</sup>	0.0002	4	0.00005 <sup>d</sup>	0.0002
V-7	30	C-031	ASR Transfer Conveyor	Residue	Y	Outside	N		NA	0%	A	4	0.00005 <sup>d</sup>	0.0002	4	0.00005 <sup>d</sup>	0.0002
V-7	38	E-015	Z-Box Separator Cyclone	Ferrous	Y	Outside	N		NA	0%	A	2	0.00005 <sup>d</sup>	0.0001	2	0.00005 <sup>d</sup>	0.0001
V-7	39	E-016	Z-Box Separator Cyclone	Ferrous	Y	Outside	N		NA	0%	A	2	0.00005 <sup>d</sup>	0.0001	2	0.00005 <sup>d</sup>	0.0001
V-7	43	E-08	ASR Not Removed by Magnet	Shred	Y	Outside	N		NA	0%	A	2	0.00005 <sup>d</sup>	0.0001	2	0.00005 <sup>d</sup>	0.0001
V-7	44	E-08	Ferrous Removed by Magnet E-7	Residue	Y	Outside	N		NA	0%	A	185	0.00005 <sup>d</sup>	0.0085	185	0.00005 <sup>d</sup>	0.0085
V-7	45	E-10	Ferrous Removed by Magnet	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	128	0.00005 <sup>d</sup>	0.0059	128	0.00005 <sup>d</sup>	0.0059
V-7	46	E-11	Ferrous Removed by Magnet	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	128	0.00005 <sup>d</sup>	0.0059	128	0.00005 <sup>d</sup>	0.0059
V-7	47	E-11	Ferrous Removed by Magnet	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	55	0.00005 <sup>d</sup>	0.0025	55	0.00005 <sup>d</sup>	0.0025
V-7	48	E-11	Ferrous Removed by Magnet	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	55	0.00005 <sup>d</sup>	0.0025	55	0.00005 <sup>d</sup>	0.0025
V-7	64	SC-001	Supplemental Conveyor	Shred	Y	Outside	N		NA	0%	A	183	0.00005 <sup>d</sup>	0.0084	183	0.00005 <sup>d</sup>	0.0084
V-7	66	SC-002	Supplemental Conveyor	Shred	Y	Outside	N		NA	0%	A	183	0.00005 <sup>d</sup>	0.0084	183	0.00005 <sup>d</sup>	0.0084
V-7	70	C-004	Ferrous Transfer Conveyor	Shred	Y	Outside	N		NA	0%	A						
V-7	72	C-005	Ferrous Transfer Conveyor	Shred	Y	Outside	N		NA	0%	A						
<b>Total Filterable PM10 Emissions</b>												<b>0.0478</b>			<b>0.0478</b>		

**Table A-1 - Ferrous Material Processing - PM<sub>10</sub> Emissions  
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Barge Loading			Non-Barge Loading		
		ID #	Description									Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr	Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr
		V-8	24									C-025	Non-metallic not removed by magnet E-13	Ferrous	Y	Outside	N
V-8	25	C-025	material removed by first magnet to second magnet	Ferrous	Y <sup>a2</sup>	Outside	N		NA	0%	A	1	0.00005 <sup>d</sup>		1	0.00005 <sup>d</sup>	
V-8	26	C-026	Ferrous Transfer Conveyor	Ferrous	Y <sup>a2</sup>				0%	0%	A	1	0.00005 <sup>d</sup>		1	0.00005 <sup>d</sup>	
V-8	27	C-027	Ferrous Transfer Conveyor	Ferrous	Y <sup>a2</sup>	Outside	N		NA	0%	A	1	0.00005 <sup>d</sup>		1	0.00005 <sup>d</sup>	
V-8	28	C-028	Non-metallic Transfer Conveyor	Ferrous	Y	Outside	N		NA	0%	A	1	0.00005 <sup>d</sup>		1	0.00005 <sup>d</sup>	
V-8	29	C-029	Non-metallic Transfer Conveyor	Ferrous	Y				0%	0%	A	1	0.00005 <sup>d</sup>		1	0.00005 <sup>d</sup>	
V-8	50	E-13	Ferrous Removed by E-13	Ferrous	Y <sup>a2</sup>	Outside	N		NA	0%	A	1	0.00005 <sup>d</sup>		1	0.00005 <sup>d</sup>	
V-8	51	E-13	Ferrous Removed by E-13	Ferrous	Y	Outside	N		NA	0%	A	1	0.00005 <sup>d</sup>		1	0.00005 <sup>d</sup>	
V-8	52	E-14	Mat'l Not removed by Separator	Ferrous	Y	Outside	N		NA	0%	A	0.25	0.00005 <sup>d</sup>	0.0000	0.25	0.00005 <sup>d</sup>	0.0000
V-8	60	C-030	Mat'l not Removed by Separator	Ferrous	1.5 <sup>a1</sup>	Outside	Y	Cover	0%	0%	Drop	2.25	0.00360 <sup>c</sup>	0.0081	2.25	0.00360 <sup>c</sup>	0.0081
V-8	63	E-14	Final Discharge from Mat'l Separator	Ferrous	1.5 <sup>a1</sup>	Outside	N		0%	0%	Drop	0.75	0.00360 <sup>c</sup>	0.0027	0.75	0.00360 <sup>c</sup>	0.0027
V-8	65	SC-009	Supplemental Conveyor	Ferrous	Y	Outside	N		NA	0%	A	2	0.00005 <sup>d</sup>	0.0001	2	0.00005 <sup>d</sup>	0.0001
V-8	67	SC-010	Supplemental Conveyor	Ferrous	Y	Outside	N		NA	0%	A	2	0.00005 <sup>d</sup>	0.0001	2	0.00005 <sup>d</sup>	0.0001
<b>Total Filterable PM10 Emissions</b>													<b>0.0111</b>	<b>0.0111</b>			
V-9	57	-	Non-metallic Loadout	Non-metallic	N	Outside	N		0%	0%	D	187	0.00020 <sup>f</sup>	<b>0.0382</b>	187	0.00020 <sup>f</sup>	<b>0.0382</b>

**Table A-1 - Ferrous Material Processing - PM<sub>10</sub> Emissions**  
**General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Barge Loading			Non-Barge Loading				
		ID #	Description									Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr	Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr		
V-10	11	C-008	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	56	0.00005 <sup>d</sup>	0.0026	56	0.00005 <sup>d</sup>	0.0026		
V-10	12	C-009	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	128	0.00005 <sup>d</sup>	0.0059	128	0.00005 <sup>d</sup>	0.0059		
V-10	13	C-010	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	128	0.00005 <sup>d</sup>	0.0059	128	0.00005 <sup>d</sup>	0.0059		
V-10	14	C-011	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	55	0.00005 <sup>d</sup>	0.0025	55	0.00005 <sup>d</sup>	0.0025		
V-10	15	C-012	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	56	0.00005 <sup>d</sup>	0.0026	56	0.00005 <sup>d</sup>	0.0026		
V-10	16	C-013	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	128	0.00005 <sup>d</sup>	0.0059	128	0.00005 <sup>d</sup>	0.0059		
V-10	17	C-014	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	128	0.00005 <sup>d</sup>	0.0059	128	0.00005 <sup>d</sup>	0.0059		
V-10	18	C-015	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	55	0.00005 <sup>d</sup>	0.0025	55	0.00005 <sup>d</sup>	0.0025		
V-10	19	C-016	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	367	0.00005 <sup>d</sup>	0.0169	367	0.00005 <sup>d</sup>	0.0169		
V-10	20	C-020	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	367	0.00005 <sup>d</sup>	0.0169	367	0.00005 <sup>d</sup>	0.0169		
V-10	68	SC-005	Supplemental Conveyor	Shred	Y	Outside	N		NA	0%	A	128	0.00005 <sup>d</sup>	0.0059	128	0.00005 <sup>d</sup>	0.0059		
V-10	69	SC-008	Supplemental Conveyor	Shred	Y	Outside	N		NA	0%	A	128	0.00005 <sup>d</sup>	0.0059	128	0.00005 <sup>d</sup>	0.0059		
V-10	71	C-014	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00005 <sup>d</sup>	0.0084		
V-10	73	C-012	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00005 <sup>d</sup>	0.0084		
V-10	74	C-015	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00005 <sup>d</sup>	0.0084		
V-10	75	C-019	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00005 <sup>d</sup>	0.0084		
V-10	76	C-013	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00005 <sup>d</sup>	0.0084		
V-10	77	C-017	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00005 <sup>d</sup>	0.0084		
V-10	78	C-020	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A		No material to discharged to conveyor during barge loading.		184	0.00005 <sup>d</sup>	0.0084		
<b>Total Filterable PM10 Emissions</b>														<b>0.0794</b>			<b>0.1385</b>		

**Table A-1 - Ferrous Material Processing - PM<sub>10</sub> Emissions  
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Row No.	Equipment Generating Emissions		Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Emission Factor Source	Barge Loading			Non-Barge Loading		
		ID #	Description									Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr	Material Throughput Rates tph	PM10 Emission Factors lb/ton	Filterable PM10 Emissions lb/hr
V-11	82	C-018	Ferrous Transfer Conveyor to stockpile	Shred	5.4% <sup>a2</sup>	Outside	N		NA	0%	Drop		No material to discharged to stockpile during barge loading.	184	0.00060	0.1098	
V-12	80	C-21	Ferrous Transfer Conveyor to stockpile	Shred	5.4% <sup>a2</sup>	Outside	N		NA	0%	Drop		No material to discharged to stockpile during barge loading.	184	0.00060	0.1098	
V-13	1	Barge 1	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	367	0.00005 <sup>d</sup>	0.0169	No material routed to barge during non-barge loading.		
V-13	2	Barge 2	Ferrous Transfer Conveyor	Shred	Y <sup>a2</sup>	Outside	N		NA	0%	A	367	0.00005 <sup>d</sup>	0.0169	No material routed to barge during non-barge loading.		
V-13	3	Barge 3	Ferrous Transfer Conveyor to barge (stockpile)	Shred	5.4% <sup>a2</sup>	Outside	N		0%	0%	Drop	367	0.00060 <sup>c</sup>	0.2197	No material routed to barge during non-barge loading.		
<b>Total Filterable PM1010 Emissions</b>														<b>0.2535</b>	<b>0.0000</b>		

- a1 Controlled particulate matter emission factors from AP-42, Table 11.19.2-2 for conveying used based on conservative assumption that moisture content is greater than 1.5% due to water added in the shredder.
- a2 Material moisture was assumed to be the mean of material moisture contents identified in AP42, Table 13.2.4-1.
- a3 Northern Metals (Minneapolis, MN) found moisture content of ASR in the range of 20 to 30%; from MPCA Construction Permit Technical Support Document for Northern Metals in Becker MN, Stream COMG-2. Calculations for the ASR stacking conveyor drop point conservatively assumes 10% moisture.
- a4 Moisture content of raw materials is assumed to be >1.5% based on application of water from water atomization cannons used for fugitive dust control.
- b Uncontrolled emission factor calculated according to material drop equation in AP-42, Section 13.2.4.3. Emissions calculated with control Eff. factor included for source being inside of a building.
- c Uncontrolled emission factor calculated according to material drop equation in AP-42, Section 13.2.4.3.
- d Uncontrolled particulate matter emission factors from AP-42, Table 11.19.2-2 for conveying. If moisture content is greater than 1.5% by weight, controlled emission factors are used.
- e Uncontrolled particulate matter emission factors from AP-42, Table 11.19.2-2 for screening. If moisture content is greater than 1.5% by weight, controlled emission factors are used.
- f Uncontrolled particulate matter emission factors from AP-42, Table 11.19.2-2 for truck loading of crushed stone. Use uncontrolled emission factor to be conservative.
- g Particulate matter emission factors from AP-42, Table 11.19.2-2 for conveying. For sources controlled by a dust collector the emission factor is multiplied by the identified capture Eff. and then by the quantity of 1-control Eff. Dust collectors vent back into to the building. These emission calculations conservatively assume dust collector emission are vented to the atmosphere.
- h Metal HAPs as percent of total PM measured at the discharge of the existing roll media filter in June 2018.

**Table A-2 Ferrous Plant Stockpile - PM<sub>10</sub> Emissions  
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Stock Pile	Stock Pile Area Acres	Control Factor <sup>b</sup>	Inactive Emissions <sup>a,d</sup> PM10 lb/hr	Active Emissions <sup>a,d</sup> PM10 lb/hr
V-1	Raw Material Truck Dumping (Drop 1)	0.3630	1.00	0.0265	0.0998
V-1	Raw Material Movement from Truck Dumping Area to Stockpile (Drop 2)	0.1815	1.00	0.0132	0.0499
Total				0.0397	0.1497
V-4	Poker North	0.0115	0.33	0.0003	0.0010
V-4	Poker South	0.0115	0.33	0.0003	0.0010
Total				0.0006	0.0020
V-6	ASR	0.2541	1.00	0.0185	0.0699
V-9	Fluff (Bin)	0.0161	0.33	0.0004	0.0015
V-11	Ferrous North	0.3630	1.00	0.0265	0.0998
V-12	Ferrous South	0.3630	1.00	0.0265	0.0998

- a. Stockpile emissions calculation from TCEQ for crushed stone downloaded August 2019.  
<https://www.tceq.texas.gov/assets/public/permitting/air/Guidance/NewSourceReview/emiss-calc-rock1.xlsx>
- b. Control Factor of 0.33 (67.5% control) for partial enclosure consisting of walls on three sides of bin. Control Factor of 1.0 for no control.
- c. Assume number of active days to be 6 days per week and 52 weeks per year and inactive days to be 1 day per week and 52 weeks per year.
- d. From TCEQ Guidance

Stockpile emission calculation:

$$\text{PM Emission Rate (tpy)} = [(\text{inactive day PM EF} \times \text{No. of inactive days}) \times \text{stockpile area}/2000 \times \text{control factor}] + [(\text{active day PM EF} \times \text{No. of active days}) \times (\text{stockpile area}/2000) \times \text{control factor}]$$

Inactive Day PM10 Emission Factor = 1.75 lb-PM10/acre-day

Active Day PM10 Emission Factor = 6.60 lb-PM10/acre-day

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**Table A-3a - Ferrous Material Processing  
PM<sub>10</sub> Emission Summary During Barge Loading  
General III, LLC - Chicago, Illinois**

**Barge Loading**

Volume Source	Filterable PM Emissions					
	Material Handling Emissions - Barge Loading		Stockpile		Total	
	Active lb/hr	Inactive lb/hr	Active lb/hr	Inactive lb/hr	Active lb/hr	Inactive lb/hr
V-1	0.4092		0.1497	0.0397	0.5589	0.0397
V-2	0.0460				0.0460	
V-3	0.0460				0.0460	
V-4	0.0037		0.002	0.0006	0.0057	0.0006
V-5	0.0616				0.0616	
V-6	0.0326		0.0699	0.0185	0.1025	0.0185
V-7	0.0478				0.0478	
V-8	0.0111				0.0111	
V-9	0.0382		0.0015	0.0004	0.0397	0.0004
V-10	0.0794				0.0794	
V-11	0.0000		0.0998	0.0265	0.0998	0.0265
V-12	0.0000		0.0998	0.0265	0.0998	0.0265
V-13	0.2535				0.2535	

**Table A-3b - Ferrous Material Processing  
PM<sub>10</sub> Emission Summary - Non-Barge Loading  
General III, LLC - Chicago, Illinois**

**Non-Barge Loading**

Volume Source	Filterable PM Emissions					
	Material Handling Emissions - Non Barge Loading		Stockpile		Total	
	Active lb/hr	Inactive lb/hr	Active lb/hr	Inactive lb/hr	Active lb/hr	Inactive lb/hr
V-1	0.4092		0.1497	0.0397	0.5589	0.0397
V-2	0.0460				0.0460	
V-3	0.0460				0.0460	
V-4	0.0037		0.002	0.0006	0.0057	0.0006
V-5	0.0616				0.0616	
V-6	0.0326		0.0699	0.0185	0.1025	0.0185
V-7	0.0478				0.0478	
V-8	0.0111				0.0111	
V-9	0.0382		0.0015	0.0004	0.0397	0.0004
V-10	0.1385				0.1385	
V-11	0.1098		0.0998	0.0265	0.2096	0.0265
V-12	0.1098		0.0998	0.0265	0.2096	0.0265
V-13	0.0000				0.0000	



**Air Dispersion Modeling Report  
for Assessment of Particulate PM<sub>10</sub> Impact  
Southside Recycling – Chicago, Illinois**

**November 2020**

**Appendix B  
Non-Ferrous Material Processing Figures and Tables**

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**Table B-1 - Non-Ferrous Material Processing - PM<sub>10</sub> Emissions**  
**General III, LLC - Chicago, Illinois**

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM10 Emissions Factor lb/ton	Filterable PM10 Emissions lb/hr
VN-1	113	C-001	Conveyor	Residue	Y	Outside	Y	N	NA		0%	70	0.000046 <sup>d</sup>	0.0032
VN-1	114	C-002	Conveyor	Residue	N	Outside	Y	N	NA		0%	68	0.001100 <sup>o</sup>	0.0747
VN-1	115	C-002	Conveyor	Ferrous	N	Outside	Y	N	NA		0%	2	0.001100 <sup>o</sup>	0.0023
VN-1	116	C-003	Conveyor	Residue	N	Outside	Y	N	NA		0%	67.90	0.001100 <sup>o</sup>	0.0747
VN-1	117	C-004	Conveyor	Residue	N	Outside	Y	N	NA		0%	60.90	0.001100 <sup>o</sup>	0.0670
VN-1	118	C-005	Conveyor	Residue	N	Outside	Y	N	NA		0%	30.45	0.001100 <sup>o</sup>	0.0335
VN-1	119	C-006	Conveyor	Residue	N	Outside		N	NA		0%	30.45	0.001100 <sup>o</sup>	0.0335
VN-1	122	C-009	Conveyor	Residue	N	Outside		N	NA		0%	9.14	0.001100 <sup>o</sup>	0.0101
VN-1	123	C-010	Conveyor	Residue	N	Outside		N	NA		0%	9.14	0.001100 <sup>o</sup>	0.0101
VN-1	124	C-011	Conveyor	Residue	N	Outside	Y	N	NA		0%	8.40	0.001100 <sup>o</sup>	0.0092
VN-1	129	C-016	Conveyor	Residue	N	Outside	Y	N	NA		0%	2.7	0.001100 <sup>o</sup>	0.0030
VN-1	174	E-01	Vibratory Batch Feeder	Residue	Y	Outside		N	NA		0%	70	0.000046 <sup>d</sup>	0.0032
VN-1	175	E-03	Screener	Residue	Y	Outside		N	NA		0%	60.90	0.000740 <sup>e</sup>	0.0451
VN-1	176	E-03	Screener	Residue	Y	Outside		N	NA		0%	6.80	0.000740 <sup>e</sup>	0.0050
VN-1	177	E-03	Screener	Residue	Y	Outside		N	NA		0%	2.70	0.000740 <sup>e</sup>	0.0020
VN-1	178	E-04	Screener	Residue	Y	Outside		N	NA		0%	15.75	0.000740 <sup>e</sup>	0.0117
VN-1	179	E-04	Screener	Residue	Y	Outside		N	NA		0%	9.14	0.000740 <sup>e</sup>	0.0068
VN-1	180	E-04	Screener	Residue	Y	Outside		N	NA		0%	4.20	0.000740 <sup>e</sup>	0.0031
VN-1	190	E-11	Screener	Residue	N	Outside		N	NA		0%	15.75	0.008700 <sup>d</sup>	0.1370
VN-1	191	E-11	Screener	Residue	N	Outside		N	NA		0%	9.14	0.008700 <sup>d</sup>	0.0795
VN-1	192	E-11	Screener	Residue	N	Outside		N	NA		0%	4.20	0.008700 <sup>d</sup>	0.0365
VN-1	244	End Loader	Drop ASR into feed hopper	Residue into Hopper	N	Outside		Y	Cover		0%	70.00	0.000100 <sup>d</sup>	0.0070
VN-1	246	SC-001	Supplemental Conveyor	Residue							0%	15.75	0.001100	0.0173
VN-1	247	SC-002	Supplemental Conveyor	Residue							0%	16	0.001100	0.0173
<b>Total Filterable PM Emissions</b>														<b>0.6928</b>

**Table B-1 - Non-Ferrous Material Processing - PM<sub>10</sub> Emissions**  
**General III, LLC - Chicago, Illinois**

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM10 Emissions Factor lb/ton	Filterable PM10 Emissions lb/hr
VN-2	120	C-007	Conveyor	Residue	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	15.75	0.001100 <sup>0</sup>	0.0035
VN-2	121	C-008	Conveyor	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	15.75	0.001100 <sup>0</sup>	0.0035
VN-2	125	C-012	Conveyor	Residue	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	9.14	0.001100 <sup>0</sup>	0.0020
VN-2	126	C-013	Conveyor	Residue	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	9.14	0.001100 <sup>0</sup>	0.0020
VN-2	127	C-014	Conveyor	Residue	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	8.40	0.001100 <sup>0</sup>	0.0018
VN-2	128	C-015	Conveyor	Ferrous	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	.25	0.001100 <sup>0</sup>	0.0001
VN-2	130	C-017	Conveyor	Ferrous	N	Outside		N	NA		0%	1.75	0.001100 <sup>0</sup>	0.0019
VN-2	131	C-018	Conveyor	Ferrous	N	Outside	Y	N	NA		0%	1.75	0.001100 <sup>0</sup>	0.0019
VN-2	132	C-019	Conveyor	Lights	N	Outside	Y	N	NA		0%	0.25	0.001100 <sup>0</sup>	0.0003
VN-2	133	C-020	Conveyor	Residue	N	Outside	Y	N	NA		0%	11.12	0.001100 <sup>0</sup>	0.0122
VN-2	134	C-021	Conveyor	Residue	N	Outside	Y	N	NA		0%	11.12	0.001100 <sup>0</sup>	0.0122
VN-2	135	C-022	Conveyor to Wind Sifter	Mixed Non-Ferrous	N	Outside	Y	Y	Wind Sifter	100%	100%	0.80	0.001100 <sup>0</sup>	0.0000
VN-2	136	C-023	Conveyor to Wind Sifter	Residue	N	Outside	Y	Y	Wind Sifter	100%	100%	7.29	0.000046 <sup>0</sup>	0.0000
VN-2	137	C-024	Conveyor to Wind Sifter	Residue	N	Outside	Y	Y	Wind Sifter	100%	100%	7.29	0.000046 <sup>0</sup>	0.0000
VN-2	139	C-035	Conveyor	Residue	N	Inside	Y	N	ECS Enclosure	100%	Bldg Eff.	2.7	0.001100 <sup>0</sup>	0.0006
VN-2	147	C-044	Conveyor	Residue	N	Outside	Y	N	NA		0%	24.87	0.001100 <sup>0</sup>	0.0274
VN-2	181	E-05	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	14.87	0.001100	0.0033
VN-2	182	E-05	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	9.87	0.001100	0.0022
VN-2	183	E-05	Magnetic Separation	Ferrous	N	Inside		N	NA		0%	0.88	0.001100	0.0010
VN-2	184	E-05	Magnetic Separation	Ferrous	N	Inside		N	NA		0%	5.00	0.001100	0.0055
VN-2	185	E-06	Eddy Current Separator	Residue	N	Outside		N	NA		0%	6.12	0.001100 <sup>d</sup>	0.0067
VN-2	186	E-06	Eddy Current Separator	Mids	N	Outside		N	NA		0%	3.50	0.001100 <sup>d</sup>	0.0039
VN-2	187	E-06	Eddy Current Separator	Zorba	N	Outside		N	NA		0%	0.25	0.001100 <sup>d</sup>	0.0003
VN-2	188	E-07	Wind Sifter	Lights	N	Outside		Y	Cover		0%	0.25	0.000740 <sup>d</sup>	0.0002
VN-2	189	E-07	Wind Sifter	Heavies	1.5 <sup>a</sup>	Outside		Y	Wind Sifter	90%	100%	1.50	0.003597 <sup>c</sup>	0.0000
VN-2	193	E-12	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	14.87	0.001100	0.0033
VN-2	194	E-12	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	9.87	0.001100	0.0022
VN-2	195	E-12	Magnetic Separation	Ferrous	N	Inside		N	NA		0%	0.88	0.001100	0.0010

**Table B-1 - Non-Ferrous Material Processing - PM<sub>10</sub> Emissions**  
**General III, LLC - Chicago, Illinois**

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM10 Emissions Factor lb/ton	Filterable PM10 Emissions lb/hr
VN-2	196	E-12	Magnetic Separation	Ferrous	N	Inside		N	NA		0%	5.00	0.001100	0.0055
VN-2	197	E-12	Magnetic Separation	Zorba	N	Outside		N	NA		0%	0.25	0.001100 <sup>d</sup>	0.0003
VN-2	198	E-13	Eddy Current Separator	Residue	N	Outside		N	NA		0%	6.12	0.001100 <sup>d</sup>	0.0067
VN-2	199	E-13	Eddy Current Separator	Mids	N	Outside		N	NA		0%	3.50	0.001100 <sup>d</sup>	0.0039
VN-2	200	E-14	Wind Sifter	Lights	N	Outside		Y	Cover		0%	0.20	0.000740 <sup>d</sup>	0.0001
VN-2	201	E-14	Wind Sifter	Heavies	1.5 <sup>a</sup>	Outside		Y	Wind Sifter	100%	100%	0.60	0.003597 <sup>c</sup>	0.0000
VN-2	202	E-15	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	9.09	0.001100	0.0020
VN-2	203	E-15	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	8.29	0.001100	0.0018
VN-2	204	E-15	Magnetic Separation	Ferrous	N	Outside		N	NA		0%	0.05	0.001100 <sup>d</sup>	0.0001
VN-2	205	E-15	Magnetic Separation	Mixed Non-Ferrous	N	Outside		N	NA		0%	0.40	0.001100 <sup>d</sup>	0.0004
VN-2	206	E-16	Eddy Current Separator	Residue	N	Outside		N	NA		0%	0.40	0.001100 <sup>d</sup>	0.0004
VN-2	207	E-16	Eddy Current Separator	Zorba	N	Outside		N	NA		0%	1.00	0.001100 <sup>d</sup>	0.0011
VN-2	208	E-17	Wind Sifter	Lights	N	Outside		Y	Cover		0%	1.09	0.000740 <sup>d</sup>	0.0008
VN-2	209	E-17	Wind Sifter	Residue	N	Outside		Y	Wind Sifter	100%	100%	6.20	0.000740 <sup>d</sup>	0.0000
VN-2	210	E-21	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	8.29	0.001100	0.0018
VN-2	211	E-21	Magnetic Separation	Ferrous	N	Outside		N	NA		0%	0.05	0.001100 <sup>d</sup>	0.0001
VN-2	212	E-21	Magnetic Separation	Mixed Non-Ferrous	N	Outside		N	NA		0%	0	0.001100 <sup>d</sup>	0.0004
VN-2	213	E-22	Eddy Current Separator	Zorba	N	Outside		N	NA		0%	1.00	0.001100 <sup>d</sup>	0.0011
VN-2	214	E-22	Eddy Current Separator	Residue	N	Outside		N	NA		0%	7.29	0.001100 <sup>d</sup>	0.0080
VN-2	215	E-23	Wind Sifter	Lights	N	Outside		Y	Cover		0%	1	0.000740 <sup>d</sup>	0.0008
VN-2	216	E-23	Wind Sifter	Residue	N	Outside		Y	Wind Sifter	100%	100%	6.20	0.000740 <sup>d</sup>	0.0000
VN-2	217	E-27	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	8.15	0.001100	0.0018
VN-2	219	E-28	Eddy Current Separator	Residue	N	Outside		N	NA		0%	7.15	0.001100 <sup>d</sup>	0.0079
VN-2	221	E-34	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	6.55	0.001100	0.0014
VN-2	222	E-34	Magnetic Separation	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	6.55	0.001100	0.0014
VN-2	224	E-35	Eddy Current Separator	Residue	N	Outside		N	NA		0%	5.05	0.001100 <sup>d</sup>	0.0056
VN-2	231	E-43	Vibratory Feeder	Residue	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	2.70	0.001100 <sup>f</sup>	0.0006
VN-2	232	E-44	Eddy Current Separator drop to stockpile	Zorba	1.5 <sup>a</sup>	Inside		N	NA		0%	0.50	0.003600	0.0018

**Table B-1 - Non-Ferrous Material Processing - PM<sub>10</sub> Emissions  
General III, LLC - Chicago, Illinois**

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM10 Emissions Factor lb/ton	Filterable PM10 Emissions lb/hr
VN-2	240	E-49	Transfer Conveyor	Residue onto ECS	N	Inside		N	ECS Enclosure	100%	Bldg Eff.	8.15	0.001100	0.0018
VN-2	242	ECS	Eddy Current Separator drop to container	Zorba	1.5 <sup>a</sup>	Inside		N	NA		0%	0.04	0.003600	0.0001
VN-2	243	ECS	Eddy Current Separator drop to container	Zorba	1.5 <sup>a</sup>	Inside		N	NA		0%	0.18	0.003600	0.0006
VN-2	248	SC-003	Supplemental Conveyor	Residue							0%	7.34	0.001100	0.0081
VN-2	249	SC-004	Supplemental Conveyor	Residue							0%	7.34	0.001100	0.0081
<b>Total Filterable PM Emissions</b>														<b>0.1734</b>



**Table B-1 - Non-Ferrous Material Processing - PM<sub>10</sub> Emissions**  
**General III, LLC - Chicago, Illinois**

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM10 Emissions Factor lb/ton	Filterable PM10 Emissions lb/hr
VN-3	138	C-034	Conveyor	Material Separator	N	Outside	Y	N	NA		0%	0.55	0.001100 <sup>o</sup>	0.0006
VN-3	140	C-039	Conveyor	Mixed Non-Ferrous	N	Outside		N	NA		0%	0.80	0.001100 <sup>o</sup>	0.0009
VN-3	141	C-040	Conveyor	Residue	N	Outside		N	NA		0%	2.80	0.001100 <sup>o</sup>	0.0031
VN-3	142	C-040	Conveyor	Mids	N	Outside		N	NA		0%	7	0.001100 <sup>o</sup>	0.0077
VN-3	143	C-040	Conveyor	Residue	N	Outside		N	NA		0%	4.20	0.001100 <sup>o</sup>	0.0046
VN-3	144	C-041	Conveyor	Zorba	N	Outside		N	NA		0%	0.50	0.001100 <sup>o</sup>	0.0006
VN-3	145	C-042	Conveyor	Zorba	N	Outside		N	NA		0%	1.50	0.001100 <sup>o</sup>	0.0017
VN-3	146	C-043	Conveyor	Zorba	N	Outside		N	NA		0%	3	0.001100 <sup>o</sup>	0.0033
VN-3	148	C-044	Conveyor	Lights Zuric	N	Outside	Y	N	NA		0%	0.30	0.001100 <sup>o</sup>	0.0003
VN-3	149	C-045	Conveyor	Residue	N	Outside	Y	N	NA		0%	24.87	0.001100 <sup>o</sup>	0.0274
VN-3	150	C-047	Conveyor	To SSI	N	Outside		N	NA		0%	0.55	0.001100 <sup>o</sup>	0.0006
VN-3	151	C-048	Conveyor	Out of SSI	N	Outside		N	NA		0%	0.55	0.001100 <sup>o</sup>	0.0006
VN-3	152	C-050	Conveyor	Residue	N	Outside	Y	N	NA		0%	25.07	0.001100 <sup>o</sup>	0.0276
VN-3	153	C-052	Conveyor	Residue	N	Outside		N	NA		0%	2	0.001100 <sup>o</sup>	0.0025
VN-3	154	C-055	Conveyor	Wire	N	Outside	Y	N	NA		0%	1.00	0.001100 <sup>o</sup>	0.0011
VN-3	155	C-058	Conveyor	Zuric drops	N	Outside	Y	N	NA		0%	0.30	0.001100 <sup>o</sup>	0.0003
VN-3	156	C-060	Conveyor	Zone	N	Outside	Y	N	NA		0%	1.20	0.001100 <sup>o</sup>	0.0013
VN-3	162	C-064	Conveyor drop to container	Zorba	1.5 <sup>a</sup>	Outside		N	NA		0%	0.70	0.003597 <sup>c</sup>	0.0025
VN-3	163	C-065	Conveyor	Residue	N	Outside	Y	N	NA		0%	2.2	0.001100 <sup>d</sup>	0.0024
VN-3	164	C-066	Conveyor	Residue	N	Outside	Y	N	NA		0%	54.39	0.001100 <sup>d</sup>	0.0598
VN-3	165	C-067	Conveyor	Residue	N	Outside	Y	N	NA		0%	54.39	0.001100 <sup>d</sup>	0.0598
VN-3	168	C-071	Conveyor	Lights	N	Outside	Y	Y	Cover		0%	0.03	0.000046 <sup>d</sup>	0.0000
VN-3	169	C-072	Conveyor	Lights	N	Outside	Y	Y	Cover		0%	0	0.000046 <sup>d</sup>	0.0000
VN-3	170	DC-01 Cyc	DC-01 fines discharge to covered conveyer	Lights	N	Outside		Y	Cover		0%	0.01	0.000046 <sup>d</sup>	0.0000
VN-3	171	DC-02 Cyc	DC-02 fines discharge to covered conveyer	Lights	N	Outside		Y	Cover		0%	0.01	0.000046 <sup>d</sup>	0.0000
VN-3	172	DC-03 Cyc	DC-03 fines discharge to covered conveyer	Lights	N	Outside		Y	Cover		0%	0.01	0.000046 <sup>d</sup>	0.0000
VN-3	173	DC-04 Cyc	DC-04 fines discharge to covered conveyer	Lights	N	Outside		Y	Cover		0%	0.01	0.000046 <sup>d</sup>	0.0000
VN-3	218	E-27	Magnetic Separation	Ferrous	N	Outside		N	NA		0%	0.25	0.001100 <sup>d</sup>	0.0003

**Table B-1 - Non-Ferrous Material Processing - PM<sub>10</sub> Emissions**  
**General III, LLC - Chicago, Illinois**

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM10 Emissions Factor lb/ton	Filterable PM10 Emissions lb/hr
VN-3	220	E-28	Eddy Current Separator	Zorba	N	Outside		N	NA		0%	1.00	0.001100 <sup>d</sup>	0.0011
VN-3	223	E-35	Eddy Current Separator	Zorba	N	Outside		N	NA		0%	1.50	0.001100 <sup>d</sup>	0.0017
VN-3	225	E-40	Separator	Lights Zuric	N	Outside		N	NA		0%	0.24	0.008700 <sup>d</sup>	0.0021
VN-3	226	E-40	Separator	Heavies Zuric	N	Outside		N	NA		0%	0.96	0.008700 <sup>d</sup>	0.0084
VN-3	227	E-40	Separator	Lights Zuric	N	Outside		N	NA		0%	0.35	0.008700 <sup>d</sup>	0.0030
VN-3	228	E-41	Separator	Lights	N	Outside		N	NA		0%	0.95	0.008700 <sup>d</sup>	0.0083
VN-3	229	E-41	Separator drop to container	Heavies	1.5 <sup>a</sup>	Outside		N	NA		0%	0.05	0.003597 <sup>c</sup>	0.0002
VN-3	230	E-42	Low speed shredder for size reduction	Out of SSI	N	Outside		N	NA		0%	0.55	0.001100 <sup>d</sup>	0.0006
VN-3	234	E-46	Separator	Heavier Zorba	N	Outside		N	NA		0%	1.25	0.00870 <sup>d</sup>	0.0109
VN-3	235	E-46	Separator	Lights Zorba	N	Outside		N	NA		0%	0.25	0.00870 <sup>d</sup>	0.0022
VN-3	236	E-47	Separator	Zorba	N	Outside		N	NA		0%	2.70	0.00870 <sup>d</sup>	0.0235
VN-3	237	E-47	Separator	Heavies Zorba	N	Outside		N	NA		0%	0.85	0.00870 <sup>d</sup>	0.0074
VN-3	238	E-47	Separator	Lights Zorba	N	Outside		N	NA		0%	0.15	0.00870 <sup>d</sup>	0.0013
VN-3	239	E-47	Separator	Light Zorba	N	Outside		N	NA		0%	0.30	0.00870 <sup>d</sup>	0.0026
VN-3	241	E-50	Air Vibe	To Infeed SSI	N	Outside		Y	Cover		0%	0.55	0.00005 <sup>d</sup>	0.0000
VN-3	250	SC-005	Supplemental Conveyor	Residue							0%	54.39	0.00110	0.0598
VN-3	251	SC-006	Supplemental Conveyor	Residue							0%	54.39	0.00110	0.0598
<b>Total Filterable PM Emissions</b>														<b>0.4019</b>

**Table B-1 - Non-Ferrous Material Processing - PM<sub>10</sub> Emissions**  
**General III, LLC - Chicago, Illinois**

Grouping	Row No.	Equipment Generating Emissions ID#	Description	Material Conveyed	Moisture > 1.5% Y/N	Transfer Point Location (Inside / Outside)	Conveyor Covered Y/N	Transfer Point Controlled (Y/N)	Type of Transfer Point Control	Dust Pickup Capture Eff. (%)	Dust Control Eff. (%)	Material Throughput Rates tph	PM10 Emissions Factor lb/ton	Filterable PM10 Emissions lb/hr
VN-4	159	C-062	Conveyor	Heavier Zorba	N	Outside		N	NA		0%	1.25	0.001100 <sup>d</sup>	0.0014
VN-4	160	C-063	Conveyor drop to stockpile	Zorba	1.5 <sup>a</sup>	Outside		N	NA		0%	2.70	0.003597 <sup>c</sup>	0.0097
VN-4	161	C-063	Conveyor drop to stockpile	Heavies Zorba	1.5% <sup>a</sup>	Outside		N	NA		0%	0.85	0.00360 <sup>c</sup>	0.0031
VN-4	233	E-44	Eddy Current Separator	Residue	N	Outside		N	NA		0%	2.2	0.00110 <sup>d</sup>	0.0024
<b>Total Filterable PM Emissions</b>														<b>0.0166</b>
VN-5	157	C-061	Conveyor drop to stockpile	Heavies Zuric	1.5% <sup>a</sup>	Outside		N	NA		0%	0.96	0.00360 <sup>c</sup>	0.0035
VN-5	158	C-061	Conveyor drop to stockpile	Heavies Zuric	1.5% <sup>a</sup>	Outside		N	NA		0%	0.30	0.00360 <sup>c</sup>	0.0011
VN-5	167	C-070	Conveyor drop to stockpile	Waste to Stockpile	1.5% <sup>a</sup>	Outside		N	NA		0%	0.55	0.00360 <sup>c</sup>	0.0020
<b>Total</b>														<b>0.0066</b>
VN-6	166	C-068	Conveyor drop to stockpile	Residue	1.5 <sup>a</sup>	Outside	Y	N	NA		0%	54.39	0.003597 <sup>c</sup>	0.1957
VN-6	245	End Loader	load waste to truck	Waste	N	Outside		N	NA		0%	54.39	0.00010	0.0054
<b>Total</b>														<b>0.2011</b>

- a Material moisture content (%) for light materials - AP-42, Table 13.2.4-1 for crushed limestone -
- b Uncontrolled emission factor calculated according to material drop equation in AP-42, Section 13.2.4.3. Emissions calculated with control Eff. factor included for source being inside of a building.
- c Uncontrolled emission factor calculated according to material drop equation in AP-42, Section 13.2.4.3.
- d Uncontrolled particulate matter emission factors from AP-42, Table 11.19.2-2 for conveying. If moisture is greater than 1.5% by weight, use controlled emission factors.
- e Uncontrolled particulate matter emission factors from AP-42, Table 11.19.2-2 for screening. If moisture is greater than 1.5% by weight, use controlled emission factors.
- f Sources located inside the Fines Building emit to the atmosphere through Dust Collection DC-01. Emissions are estimated by 12,000
- g Metal HAPs as percent of total PM measured at the discharge of the existing roll media filter in June 2018.

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**Table B-2 - Non-Ferrous Plant Stockpile - PM<sub>10</sub> Emissions  
General III, LLC - Chicago, Illinois**

Volume Source Grouping	Stock Pile	Stock Pile Area Acres	Control Factor <sup>b</sup>	Inactive Emissions <sup>a,d</sup> PM10 lb/hr	Active Emissions <sup>a,d</sup> PM10 lb/hr
VN-1	FE from E-02	0.0047	0.33	0.0001	0.0004
VN-4	5" + Zorba	0.0189	0.33	0.0005	0.0017
VN-4	2-1/2" - 5" Zorba	0.0189	0.33	0.0005	0.0017
VN-4	5/8" - 2-1/2" Zorba	0.0189	0.33	0.0005	0.0017
Total				0.0015	0.0051
VN-5	Tailings	0.0195	0.33	0.0005	0.0018
VN-5	Open	0.0195	0.33	0.0005	0.0018
VN-5	Wire	0.0195	0.33	0.0005	0.0018
VN-5	Wire Rich Solids	0.0195	0.33	0.0005	0.0018
VN-5	Zurick	0.0195	0.33	0.0005	0.0018
Total				0.0025	0.0090
VN-6	Waste	0.0868	0.33	0.0021	0.0079

- a. Stockpile emissions calculation from TCEQ for crushed stone downloaded August 2019.  
<https://www.tceq.texas.gov/assets/public/permitting/air/Guidance/NewSourceReview/emiss-calc-rock1.xlsx>
- b. Control Factor of 0.1 (90% control) for partial enclosure consisting of walls on three sides of bin. Control Factor of 1.0 for no control.
- c. Assume number of active days to be 6 days per week and 52 weeks per year and inactive days to be 1 day per week and 52 weeks per year.
- d. From TCEQ Guidance

Stockpile emission calculation:

$$\text{PM Emission Rate (tpy)} = [(\text{inactive day PM EF} \times \text{No. of inactive days}) \times \text{stockpile area}/2000 \times \text{control factor}] + [(\text{active day PM EF} \times \text{No. of active days}) \times (\text{stockpile area}/2000) \times \text{control factor}]$$

$$\text{Inactive Day PM}_{10} \text{ Emission Factor} = 1.75 \text{ lb-PM}_{10}/\text{acre-day}$$

$$\text{Active Day PM}_{10} \text{ Emission Factor} = 6.60 \text{ lb-PM}_{10}/\text{acre-day}$$

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**Table B-3 - Total Non-Ferrous Material Processing PM<sub>10</sub> Emissions  
General III, LLC - Chicago, Illinois**

Sources	PM Emissions					
	Material Handling		Stockpile		Totals	
	Active lb/hr	Inactive lb/hr	Active lb/hr	Inactive lb/hr	Active lb/hr	Inactive lb/hr
VN-1	0.6928	0.6928	0.0004	0.0001	0.6932	0.6929
VN-2	0.1734	0.1734			0.1734	0.1734
VN-3	0.4019	0.4019			0.4019	0.4019
VN-4	0.0166	0.0166	0.0051	0.0015	0.0217	0.0181
VN-5	0.0066	0.0066	0.0090	0.0025	0.0156	0.0091
VN-6	0.2011	0.2011	0.0079	0.0021	0.2090	0.2032

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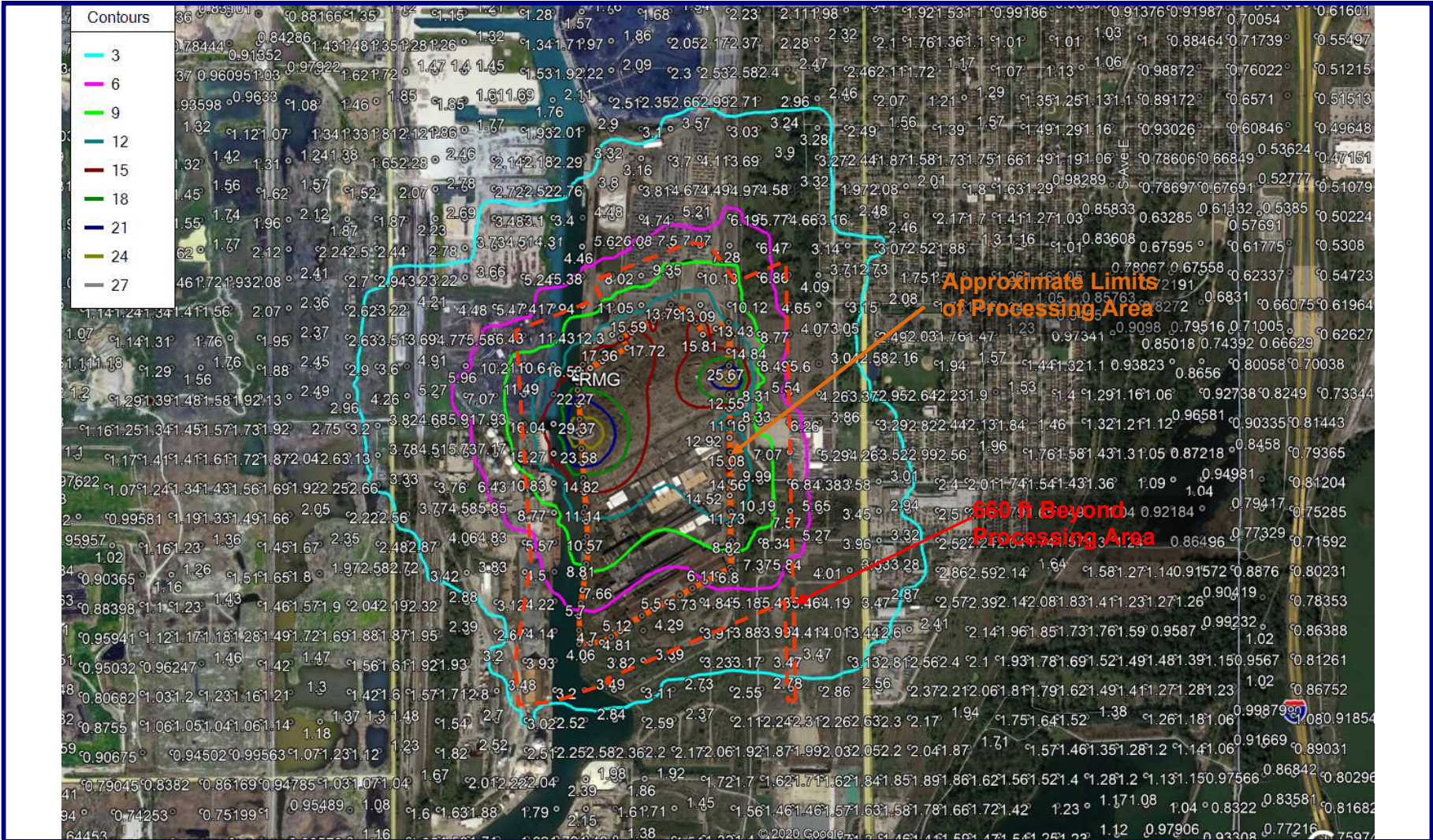


**Air Dispersion Modeling Report  
for Assessment of Particulate PM<sub>10</sub> Impact  
Southside Recycling – Chicago, Illinois**

**November 2020**

**Appendix C  
Modeling Results**

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 <p><b>2S631 ROUTE 59, SUITE B WARRENVILLE, IL 60555 630-393-9000/630-393-9111</b></p>	<p><b>Air Dispersion Modeling Report for the Assessment of PM<sub>10</sub> Emission Impacts</b></p>		<p><b>PM<sub>10</sub> Isopleths Southside Recycling 11600 S. Burley, Chicago, Illinois</b></p>		<p><b>C-1</b></p>
	<p><small>COMMENTS:</small></p>	<p><small>DRAWN BY:</small></p>	<p><small>APPROVED BY:</small> DD</p>	<p><small>PROJECT NUMBER:</small> R19439-7.10</p>	<p><small>DATE DRAWN:</small> 10-2020</p>

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**Dust Monitoring Plan for a  
Large Recycling Facility  
General III, LLC (d/b/a Southside Recycling)  
Chicago, Illinois**

**November 11, 2020**

**R17421-7.1**

***Prepared for:***

**Southside Recycling  
11600 S Burley Avenue  
Chicago, Illinois 60617**

**Prepared by:**

**Darina Demirev  
Senior Engineer  
RK & Associates, Inc.**



**2 South 631 Route 59  
Suite B  
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Phone: 630-393-9000  
Fax: 630-393-9111**

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## 1.0 INTRODUCTION

General III, LLC (d/b/a/ Southside Recycling), has received a construction permit from the Illinois Environmental Protection Agency (IEPA), Permit Number 19090021, to construct and operate a new scrap metal recycling facility (Facility) in Cook County at 11600 S. Burley Avenue in Chicago, Illinois. A Site Location Map and Facility Layout Map are presented in Figures 1-1 and 1-2.

Southside Recycling's facility will be a state-of-the-art metal recycling facility located in the heart of an industrial district well buffered from residential properties. The proposed metal shredder and material processing operations will utilize the latest technology to create a clean, efficient, and environmentally sensitive plant.

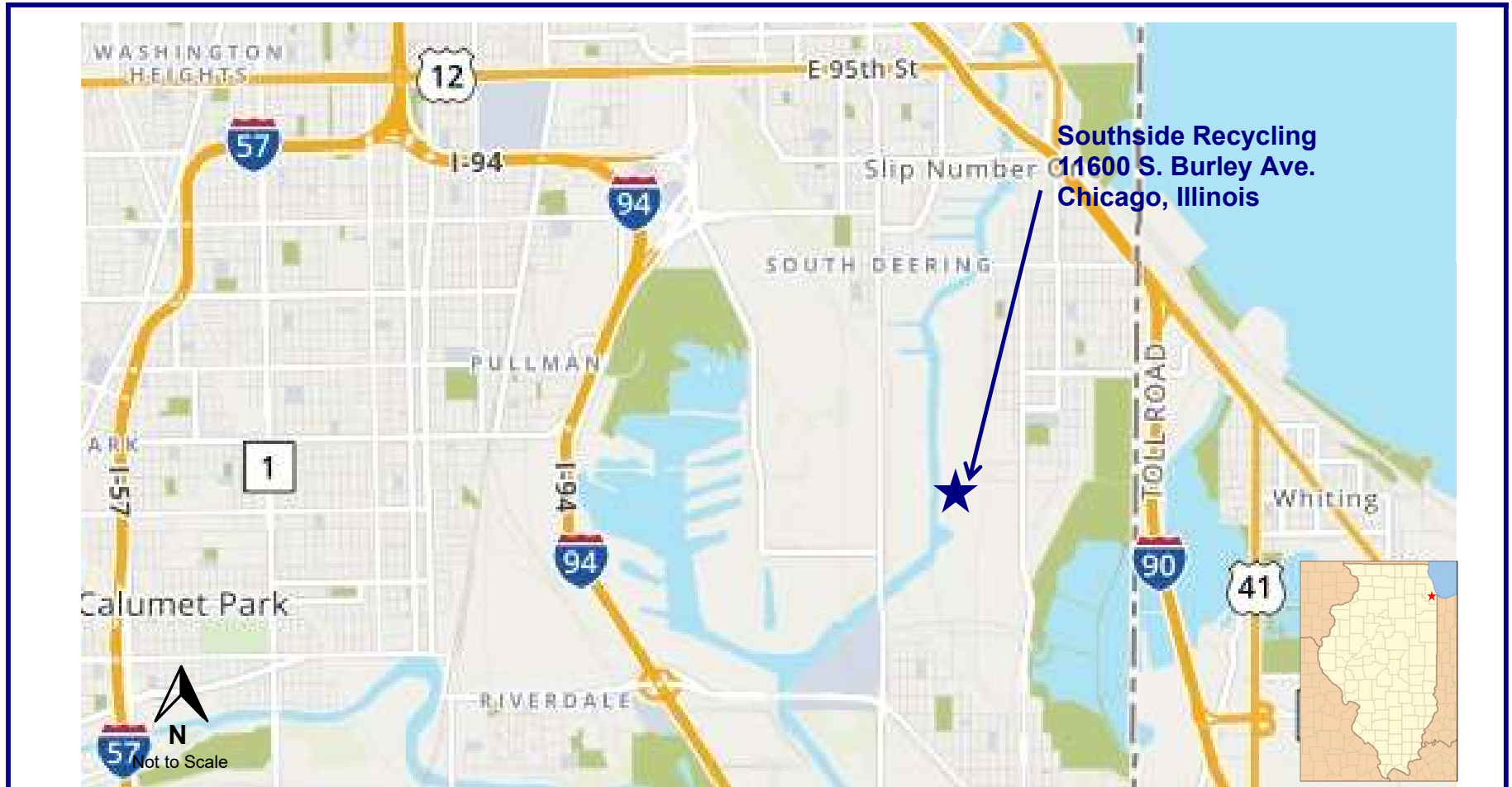
Southside Recycling will receive and shred mixed recyclables in various forms to produce uniform grades of ferrous and non-ferrous metals. Proposed scrap handling and processing activities include receiving, sorting, shredding, metal separation, and recovery of ferrous and non-ferrous metals.

City of Chicago Department of Public Health (CDPH) has published Rules for Large Recycling Facilities (Rule) effective June 5, 2020 (corrected June 19, 2020). Section 3.9.21.2. requires that a Dust Monitoring Plan (Plan) be prepared to describe the placement, operation, and maintenance of a weather station and monitors to continually measure the concentration of particulate matter less than 10 microns in diameter (PM<sub>10</sub>) in the ambient air.

This Plan has been prepared to meet the requirements of Sections 3.9.21.2 through 3.9.21.4 of the Rule.

### 1.1 Facility Location and Contact Information

<u>Business Name:</u>	Southside Recycling
<u>Source Location:</u>	11600 S. Burley – Chicago, Illinois 60617 Hyde Park Township, Cook County Illinois
<u>Latitude/Longitude</u>	41.685201° N / -87.545847° W – Approximate Location of Front Gate
<u>Office/Mailing Address:</u>	1909 N. Clifton Avenue – Chicago, Illinois 60614
<u>Southside Recycling</u>	Mr. Jim Kallas - Environmental Manager 847-508-9170 – <a href="mailto:jimkallas@general-iron.com">jimkallas@general-iron.com</a>
<u>IEPA Site ID No.:</u>	031600SFX
<u>IEPA Draft Construction Permit:</u>	19090021
<u>SIC Code:</u>	5093 – Scrap and Waste Materials
<u>NAICS Code:</u>	423930 – Recyclable Material Merchant Wholesalers
<u>RKA Contact for This Document</u>	John Pinion - Principal Engineer 2S631 Route 59, Suite B - Warrenville, Illinois 60555 630-393-9000 - <a href="mailto:jpinion@rka-inc.com">jpinion@rka-inc.com</a>



**Southside Recycling**  
**11600 S. Burley Ave.**  
**Chicago, Illinois**

1

Calumet Park



COMMENTS:  
**Chicago Department of Public Health**  
**Dust Monitoring Plan for a**  
**Large Recycling Facility**

**Site Location Map**  
**Southside Recycling**  
**11600 S. Burley, Chicago, Illinois**

FIGURE  
**1-1**

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 R19439-7.10

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 10-2020

REVISED DATE



2S631 ROUTE 59, SUITE B  
WARRENVILLE, IL 60555  
630-393-9000/630-393-9111

COMMENTS:

Chicago Department of  
Public Health  
Dust Monitoring Plan for a  
Large Recycling Facility

Facility Map  
Southside Recycling  
11600 S. Burley, Chicago, IL

FIGURE

1-2

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PROJECT NUMBER:

DATE DRAWN:

REVISED DATE

JGP

R19439-7.10

10-2020

## 2.0 PM<sub>10</sub> MONITORING AND REPORTING

The information presented below describes the number, location, operation, and maintenance of the continuous PM<sub>10</sub> monitors for this site.

### 2.1 Number of PM<sub>10</sub> Monitors and Proposed Locations

Pursuant to Section 3.9.21.2 of the Rule, two continuous PM<sub>10</sub> monitors will be installed as shown in Figure 2-1, one downwind monitor and one upwind monitor.

The required number of PM<sub>10</sub> monitors is based on the proximity of Sensitive Areas to the facility [Section 3.9.21.2(a)] and the results of an air dispersion modeling assessment for PM<sub>10</sub> and Hazardous Air Pollutant (HAP) metals emissions [3.9.21.2(b)].

#### Sensitive Areas

The Rule defines a *Sensitive Area* as:

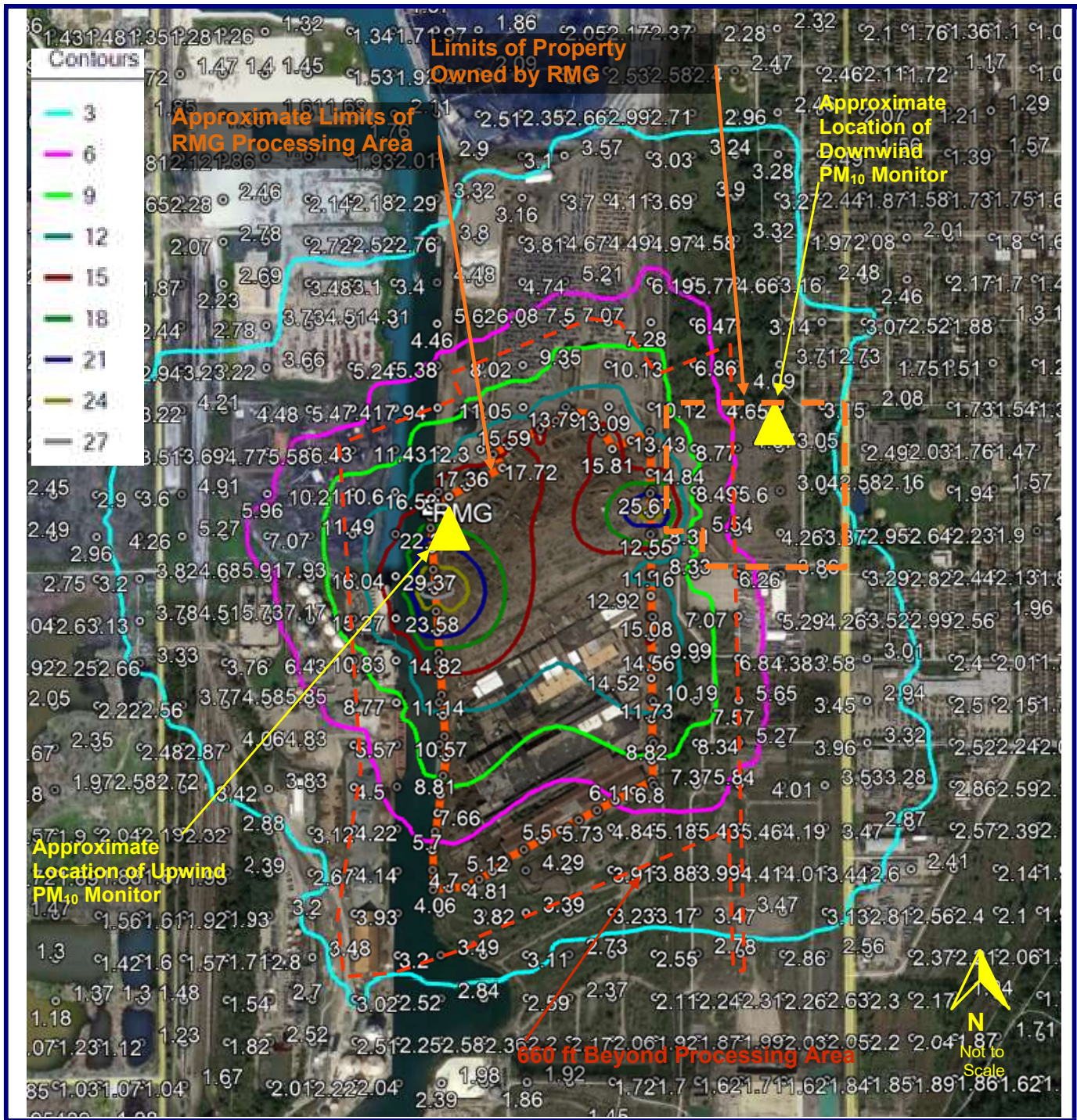
*...any property with a residential use, a park, a hospital, a clinic, a church, a day-care center, or a school.*

Figure 1-2 shows the limits of active material processing and the approximate limits of the area extending 660 feet beyond the active material processing area. Review of Figure 1-2, which is based on an October 2019 aerial photograph obtained from Google Earth, confirms that there are no Sensitive Areas within 660 feet of the facility's active material processing area.

#### Predicted Exceedances of PM<sub>10</sub> and Metal Standards

Southside Recycling separately submitted an Air Dispersion Modeling Report for Assessment of Metal Emission Impacts (Metals Modeling Report) and an Air Dispersion Modeling Report for Assessment of Particulate PM<sub>10</sub> Impact (PM<sub>10</sub> Modeling Report) to CDPH.

Figure 2-1 presents the results of the PM<sub>10</sub> Modeling Report identifying the maximum predicted PM<sub>10</sub> concentrations ( $\mu\text{g}/\text{m}^3$ ) in the area surrounding Southside Recycling. The PM<sub>10</sub> Modeling Report confirms that PM<sub>10</sub> emissions from Southside Recycling did not result in any predicted PM<sub>10</sub> concentration exceeding the applicable National Ambient Air Quality Standard (NAAQS), which is 150  $\mu\text{g}/\text{m}^3$  based on a 24-hour standard not to be exceeded more than once per year. In fact, the PM<sub>10</sub> modeling Report showed that the maximum predicted PM<sub>10</sub> concentration was less than 30  $\mu\text{g}/\text{m}^3$ , which occurred along the western property boundary (Calumet River) near the barge loading operation.



25631 ROUTE 59, SUITE B  
WARRENVILLE, IL 60555  
630-393-9000/630-393-9111

COMMENTS:

Chicago Department of Public Health  
Dust Monitoring Plan for a Large Recycling Facility

Locations of Proposed PM<sub>10</sub> Monitors on an Isopleth Map of Predicted PM<sub>10</sub> Impacts

FIGURE

2-1

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PROJECT NUMBER:

DATE DRAWN:

REVISED DATE

JGP

R19439-7.10

10-2020

A separate air dispersion modeling assessment of emissions of Hazardous Air Pollutants (HAP) metals (antimony, arsenic, beryllium, cadmium, chromium, cobalt, lead, manganese, nickel, and selenium) was prepared and submitted to the Illinois Environmental Protection Agency (IEPA) and later submitted to CDPH, shows that there were no predicted ambient metal HAP concentrations that exceeded relevant acute or chronic health screening limits.

Section 3.9.21.2 of the Rule specifies that in the event there are no sensitive areas within 660 feet of the facility and PM<sub>10</sub> and Metals Modeling do not identify predicted exceedances of acceptable levels, a minimum of one monitor is required and the monitor shall be placed downwind of the prevailing wind direction. The prevailing wind direction, based on data from Midway Airport for 2016 through 2018 (see Appendix A), is from the South and West.

Based on the above, Southside Recycling proposed to locate one ambient air PM<sub>10</sub> monitor in the Northeast portion of the property as illustrated in Figure 2-1 above. In addition to the required downwind monitor, Southside Recycling will also install one upwind monitor located on the western property boundary along the east side of the Calumet River, also shown in Figure 2-1 above.

## **2.2 PM<sub>10</sub> Monitors**

Southside Recycling will use Near-Reference PM<sub>10</sub> monitors meeting the minimum requirements identified in Appendix B of the Rule. At a minimum, the monitors used by Southside Recycling will meet the following requirements:

- PM<sub>10</sub> monitors will be continuous direct-reading near-real time monitors to monitor particulate matter less than 10 microns in diameter.
- PM<sub>10</sub> monitors will be equipped with:
  - Omni-directional heated sampler inlet;
  - Sample pump
  - Volumetric flow controller
  - Enclosure; and,
  - Data logger capable of logging each data point with average concentration, time/date, and data point number.
- PM<sub>10</sub> monitors will have the following minimum performance standards:
  - Range: 0 to 10,000  $\mu\text{g}/\text{m}^3$ ;
  - Accuracy: +/- 5% of reading precision
  - Resolution: 1.0  $\mu\text{g}/\text{m}^3$ ; and,

- Measurement Cycle: user selectable.
- In order to ensure the validity of the PM<sub>10</sub> measurements performed, Southside Recycling will follow the manufacturer's recommended calibrations frequency, methods, and procedures, as specified in the User's Manual for the selected PM<sub>10</sub> monitor. These recommendations will constitute the Calibration Plan as set forth in 3.9.21.1 of the Rule. The Calibration Plan will be supplemented to address the following critical features: instrument calibration, instrument maintenance, operator training, and daily instrument performance (span checks).

Southside Recycling is currently in the process of selecting and acquiring PM<sub>10</sub> monitors to meet the minimum specifications identified in this Plan and in the Rule. For the purposes of this Plan, Southside Recycling proposes to use an 'E-Sampler' manufactured by Met One Instruments, or an equivalent monitor.

The monitoring technology will utilize a type of nephelometer which automatically measures and records real-time airborne PM<sub>10</sub> concentration levels using the principle of near-forward laser light scattering. A sample pump will draw in ambient air at a rate of approximately 2-liters per minute through a PM<sub>10</sub> sharp-cut cyclone to remove particulate matter greater than 10 microns in diameter prior to passing through the nephelometer.

In addition, each PM<sub>10</sub> monitor will be equipped with an on-board filter which can optionally be used to collect a particulate sample for subsequent gravimetric mass or laboratory evaluation. This filter will be used for periodic gravimetric analysis to establish a correlation factor to correct the real time monitor output with site-specific particulate.

Each PM<sub>10</sub> monitor will be installed in a NEMA4X enclosure and be configured to be mounted on a tripod or pole for permanent installation or optionally mounted on a trailer (powered with solar cells) to make the monitor portable.

Data from each PM<sub>10</sub> monitor will automatically be uploaded to a site specific database using a program configured to allow automatic notification of CDPH and facility representatives of any 15-minute block average PM<sub>10</sub> concentrations that exceeds the established Reportable Action Level (RAL) of 150  $\mu\text{g}/\text{m}^3$ .

### **2.3 Meteorological Station**

In addition to the PM<sub>10</sub> monitors, a continuous weather monitoring station will be installed on-site pursuant to Section 4.7.7.4 of the Rule. The Meteorological Station (Met Station) will consist of one 34-ft (10-meter) tilt-over aluminum tower that includes lightning protection as well as grounding and guy wire connections. The Met Station will be configured to measure wind speed, wind direction, ambient temperature, relative humidity, barometric pressure, and precipitation as required by the Rule. Met data



collected will be logged by an electronic data logger. Quality assurance of all meteorological sensors will be in accordance with recommendations established in the *Quality Assurance Handbook for Air Pollutant Measurement Systems, Volume IV: Meteorological Measurements Version 2.0 (Final)* (EPA-454/B-08-002, March 2008) and in accordance with manufacturer specifications.

Although a specific location for the Met Station has not yet been identified, the Met Station will be located in an unobstructed, unsheltered area, centrally positioned in relation to the storage piles and material processing and handling activities.

## **2.4 Data-Logging**

Pursuant to Section 4.7.7.5 of the Rule, each PM<sub>10</sub> monitor and the Met Station will use a programmable data logger to collect and upload data to a central database. All data collected will be consistent with units in the National Ambient Air Quality Standards for PM<sub>10</sub> and ambient monitoring practices will comply with current USEPA protocol and guidance for ambient air quality monitoring, including but not limited to those for data completeness, calibration, inspection, maintenance and site instrument logs.

## **2.5 Monthly Data Reporting**

In accordance with Section 4.7.7.9 of the Rule, Southside Recycling will submit all data collected pursuant to Section 4.7.7.5 to CDPH within 14 days of the end of the month in which data was collected. Reports will be submitted via e-mail to [envwastepermits@cityofchicago.org](mailto:envwastepermits@cityofchicago.org), in a format specified by CDPH.

## **2.6 PM<sub>10</sub> Reportable Action Level**

The PM<sub>10</sub> Reportable Action Level (RAL) is the concentration of PM<sub>10</sub> measured by any monitoring station location that will trigger response activities under the Contingency Plan required under 4.7.7.12 of the Rule. The RAL for PM<sub>10</sub> will be 150  $\mu\text{g}/\text{m}^3$  averaged over a block 15-minute period, unless a different RAL or averaging time is specified by CDPH in the facility recycling permit.

An RAL exceedance shall be calculated by subtracting the upwind PM<sub>10</sub> concentration (from the upwind PM<sub>10</sub> monitor) from the downwind PM<sub>10</sub> concentration (measured by the downwind PM<sub>10</sub> monitor).

## **2.7 Reportable Action Level Notifications**

Pursuant to Section 4.7.7.10 of the Rule, in the event of an exceedance of the PM<sub>10</sub> RAL, telemetry shall be used to notify CDPH by e-mail at [envwastepermits@cityofchicago.org](mailto:envwastepermits@cityofchicago.org) within 15 minutes or within the

time frame specified in the Recycling Permit. The RAL Notification shall be formatted as specified by CDPH and will include the following information:

- Date and time of RAL Exceedance;
- Average wind speed and wind direction recorded over the block 15 minute period corresponding to the exceedance;
- Concentrations of PM<sub>10</sub> recorded by upwind and downwind monitors over the same 15-minute period; and,
- The latitude and longitude coordinates in decimal degrees of all monitoring stations.

Pursuant to Section 4.7.7.11 of the Rule, Southside Recycling shall maintain a facility Operating Log for each exceedance of the PM<sub>10</sub> RAL. Within 24 hours of each PM<sub>10</sub> RAL exceedance, Southside Recycling shall include the following information in the facility Operating Log:

- Date and time of RAL Exceedance;
- Recorded wind speed and PM<sub>10</sub> concentration(s) at the time of the RAL exceedance;
- Suspected on-site and off-site source(s) of PM<sub>10</sub> emissions potentially contributing to the PM<sub>10</sub> RAL exceedance;
- Description of mitigative action(s) taken;
- Description of an operational impact as a result of the PM<sub>10</sub> RAL exceedance; and,
- Description of any preventative measure(s) to reduce or eliminate future occurrences from the same source(s).

### **3.0 MONITOR CALIBRATION**

The following describes the proposed PM<sub>10</sub> and Met Station instrument calibrations.

#### **3.1 PM<sub>10</sub> Monitors**

Southside Recycling will maintain and calibrate PM<sub>10</sub> monitors in strict accordance with the manufacturer's recommendations upon initial installation and at the recommended intervals.

A site specific PM<sub>10</sub> correlation factor will be periodically measured to calibrate the light scattering nephelometer. The correlation factor will be developed by using an integrated PM<sub>10</sub> filter element to collect a gravimetric sample of PM<sub>10</sub> pursuant to EPA Method IO 3.5, NIOSH 7303, or other method(s) approved by CDPH. The correlation factor will be calculated using the methods and procedures recommended by the PM<sub>10</sub> monitor manufacturer and will be repeated at least annually in conjunction calibration of the nephelometer.

#### **3.2 Met Station Instruments**

Met station instruments will be calibrated or replaced at a frequency and using methods and procedures recommended by the instrument manufacturer(s).

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## **4.0 METALS SAMPLING PLAN**

The following describes the metals sampling methods and procedures proposed to estimate the concentration of the specified metals (the metals required to be modeled pursuant to Section 3.9.21.1 of the Rule) in PM<sub>10</sub> collected at each PM<sub>10</sub> monitor.

### **4.1 Metal Sampling**

Southside Recycling will use the gravimetric sample from annual calibration of the nephelometer for metals evaluation. After determining the mass of PM<sub>10</sub> on the filter, required for development of a site-specific PM<sub>10</sub> correlation factor, the filter will be submitted to a qualified laboratory for metals analysis in accordance with USEPA approved methods. The results of the metals analysis will be reported in units of  $\mu\text{g}/\text{m}^3$  and compared against the acceptable metal standards identified in the Metals Modeling Report.

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## 5.0 DUST MONITORING CONTINGENCY PLAN

Pursuant to Section 4.7.7.12, the information presented in this Section represents the Dust Monitoring Contingency Plan which described the mitigative actions that will be taken when the PM<sub>10</sub> monitors record an exceedance of the PM<sub>10</sub> RAL.

An exceedance of the PM<sub>10</sub> RAL occurs when, during the same 15 minute period, the PM<sub>10</sub> concentration measured at the downwind PM<sub>10</sub> monitor minus the PM<sub>10</sub> concentration measured at the upwind PM<sub>10</sub> monitor exceeds the PM<sub>10</sub> RAL (150  $\mu\text{g}/\text{m}^3$ ) for the same 15-minute block average period. Measured exceedances will be reported to facility representatives (and CDPH) via e-mail.

In response to each reported exceedance, the facility will investigate conditions and activities at the site that may have contributed to the elevated PM<sub>10</sub> concentrations. This investigation will include, but not necessarily be limited to:

- Discussion with facility operations personnel to determine the activities being performed during the period immediately preceding the reported exceedance.
- Visual inspection of the area;
- Evaluation of records generated pursuant to the Fugitive Particulate Operating Program to identify dust mitigation measures that were active during the period immediately preceding the reported exceedance.
- Evaluation of the wind direction, wind speed and precipitation data from the facility meteorological station.
- Review of available video documentation from facility security cameras.

Based on the above information, Southside Recycling will determine what actions or activities likely resulted in, or contributed to, the reported PM<sub>10</sub> exceedance.

Based on the cause(s) of the reported exceedance, Southside Recycling will take mitigative actions designed to minimize the potential for future exceedances. The mitigative actions will vary based on the potential causes or conditions that resulted in the exceedance. For the purposes of this Contingency Plan, mitigating actions include, but are not necessarily limited to, the following:

- Application of dust control measures to facility processes or roadways as described in the facility Fugitive Particulate Operating Program;
- Modification of facility observation frequency of processes or activities that contributed to the exceedance;
- Temporary reduction or suspension of activities determined to have contributed to the exceedance; and/or,

- Provide additional training to operations personnel to improve dust awareness and proactive dust mitigations strategies.

At the conclusion of the investigation and implementation of mitigative actions, Southside Recycling will update the facility operating log to include the exceedance-related information pursuant to Section 2.7 of this Plan.



## **6.0 DUST MONITORING PLAN AMENDMENT**

This Dust Monitoring Plan will be amended and resubmitted to CDPH upon final selection and siting of the PM<sub>10</sub> monitors and Met Station to identify specific instrument manufacturers , model numbers, and the recommended calibration frequencies and procedures.

In addition, this Plan will be periodically reviewed and updated as necessary to document any changes to the information presented herein.

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**Dust Monitoring Plan  
Southside Recycling  
Chicago, Illinois**

**November 2020**

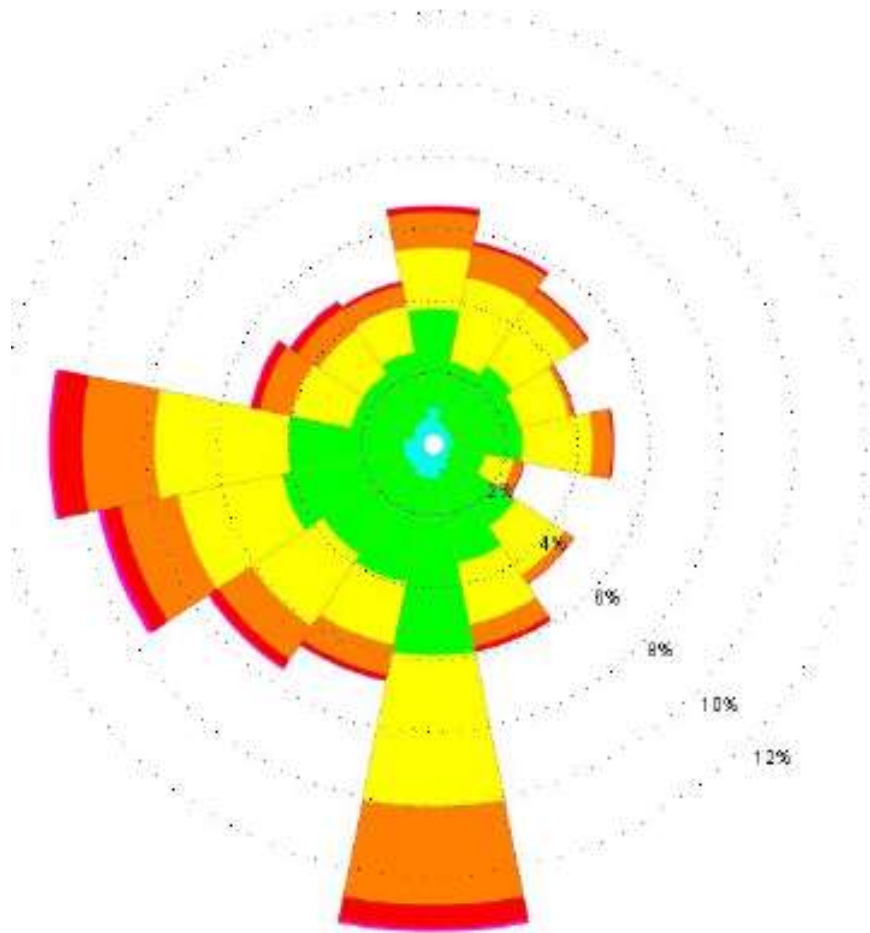
**Appendix A**

**Prevailing Wind Directions  
Midway Airport – Chicago, Illinois  
2016, 2017, and 2018**

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ORD 2016

Max speed (m/s): 19.0  
 Total number of data (-): 78978  
 Events in chart (-): 72587  
 Calm (%): 6.6  
 Longitude (deg): -87.9319  
 Latitude (deg): 41.9875



[https://www.enviroware.com/METAR/METAR\\_WindRoses\\_2016\\_maps.html](https://www.enviroware.com/METAR/METAR_WindRoses_2016_maps.html)



2S631 ROUTE 59, SUITE B  
 WARRENVILLE, IL 60555  
 630-393-9000/630-393-9111

COMMENTS:

Chicago Department of  
 Public Health  
 Dust Monitoring Plan for a  
 Large Recycling Facility

Prevailing Wind Directions  
 for 2016  
 Midway Airport, Chicago, Illinois

FIGURE

A-1

DRAWN BY:

APPROVED BY:

JGP

PROJECT NUMBER:

R19439-7.10

DATE DRAWN:

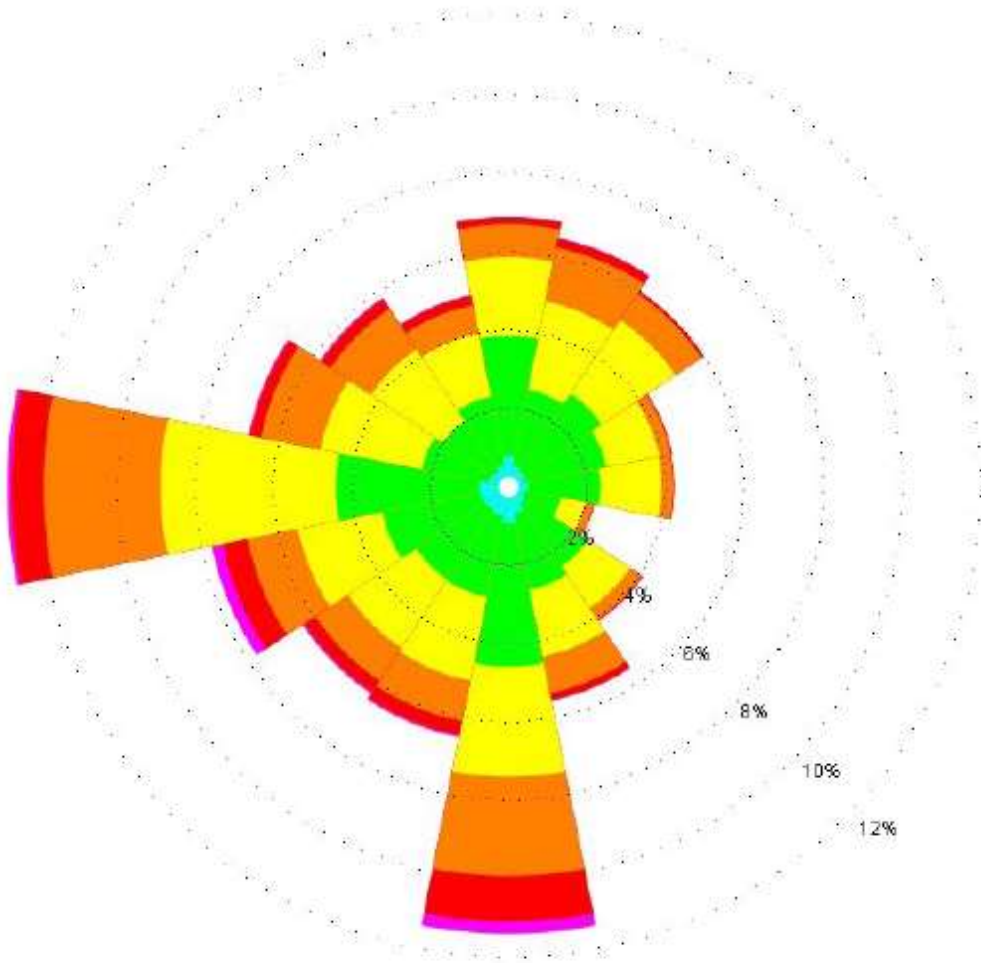
10-2020

REVISED DATE

ORD 2017

Max speed (m/s): 18.0  
 Total number of data (-): 11535  
 Events in chart (-): 102624  
 Calm (%): 5.4  
 Longitude (deg): -87.9319  
 Latitude (deg): 41.9875

- > 10.0 (1.0 %)
- 8.0 - 10.0 (5.0 %)
- 6.0 - 8.0 (17.9 %)
- 4.0 - 6.0 (34.1 %)
- 2.0 - 4.0 (36.1 %)
- < 2.0 (5.9 %)



[https://www.enviroware.com/METAR/METAR\\_WindRoses\\_2017\\_maps.html](https://www.enviroware.com/METAR/METAR_WindRoses_2017_maps.html)



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 WARRENVILLE, IL 60555  
 630-393-9000/630-393-9111

COMMENTS:  
**Chicago Department of  
 Public Health  
 Dust Monitoring Plan for a  
 Large Recycling Facility**

**Prevailing Wind Directions  
 for 2017  
 Midway Airport, Chicago, Illinois**

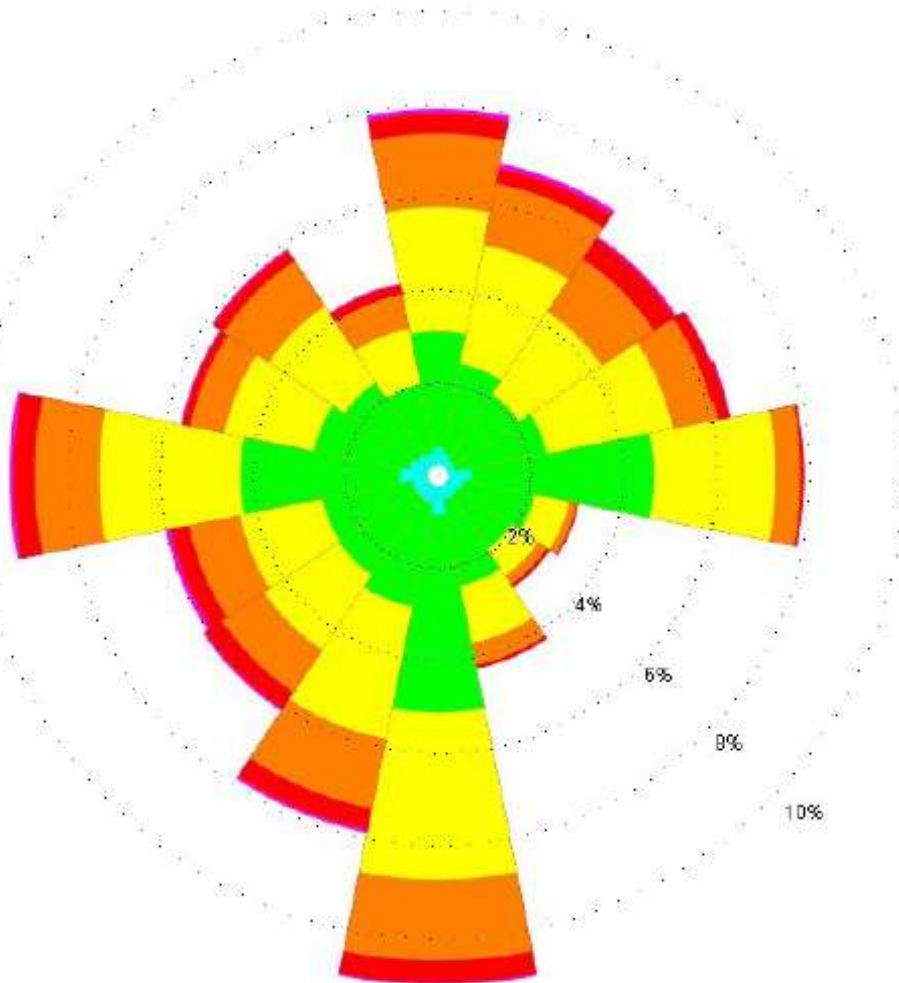
FIGURE

**A-2**

DRAWN BY:	APPROVED BY: JGP	PROJECT NUMBER: R19439-7.10	DATE DRAWN: 10-2020	REVISED DATE
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MDW 2018

Max speed (m/s): 18.0  
 Total number of data (-): 113680  
 Events in chart (-): 105058  
 Calm (%): 5.1  
 Longitude (deg): -87.7524  
 Latitude (deg): 41.7860



- > 10.0 (0.8 %)
- 8.0 - 10.0 (4.8 %)
- 6.0 - 8.0 (16.6 %)
- 4.0 - 6.0 (34.8 %)
- 2.0 - 4.0 (37.2 %)
- < 2.0 (5.9 %)



[https://www.enviroware.com/METAR/METAR\\_WindRoses\\_2018\\_maps.html](https://www.enviroware.com/METAR/METAR_WindRoses_2018_maps.html)



2S631 ROUTE 59, SUITE B  
 WARRENVILLE, IL 60555  
 630-393-9000/630-393-9111

COMMENTS:  
**Chicago Department of  
 Public Health  
 Dust Monitoring Plan for a  
 Large Recycling Facility**

**Prevailing Wind Directions  
 for 2018  
 Midway Airport, Chicago, Illinois**

FIGURE

**A-3**

DRAWN BY:	APPROVED BY: JGP	PROJECT NUMBER: R19439-7.10	DATE DRAWN: 10-2020	REVISED DATE:
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**Large Recycling Facility Permit Application  
Southside Recycling  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment W  
Types of Recyclable Material**



# **Feedstock Management Plan**

**for**

**General III, LLC  
(dba Southside Recycling)**

**11554 South Avenue O  
Chicago, IL 60617**

**September 2020**

The following Feedstock Management Plan for General III, LLC (d/b/a Southside Recycling) has been prepared in order to document Southside Recycling's acceptance policies and procedures for metallic recyclable material.

It must be noted that Southside Recycling has a policy of accepting various types of materials that require special handling (i.e. compressed gas cylinders, ballasts and capacitors, etc.) from incoming loads in order to ensure that they are segregated from the remainder of the load and that such items are handled and disposed of properly. To that end, Southside Recycling is continually striving to educate its suppliers regarding the hazards of certain materials and providing suppliers with incentives to segregate those materials from the rest of the load. As an example, suppliers are paid for items such as cylinders and PCB-containing ballasts, despite the fact that Southside Recycling must pay to dispose of those items. This system creates an incentive to help ensure that materials of concern are not buried or hidden in a load of scrap metal and that they are handled and disposed of properly and in accordance with applicable federal, state and local rules and regulations.

Following are the details of the Feedstock Management Plan:

1. Acceptance policy regarding materials that require special handling

As outlined above, Southside Recycling has a policy of accepting certain materials that require special handling in order to help ensure that such materials are handled and disposed of properly and in an environmentally responsible manner.

Examples of materials that require special handling include:

- Compressed gas cylinders (i.e. propane, acetylene, etc.)
- Containers that may have contained flammable or combustible materials (i.e. solvents, fuels, etc.)
- Materials that could potentially cause a fire (i.e. lithium-ion batteries, ignition devices, etc.)
- PCB-containing ballasts and capacitors
- Mercury-containing devices (thermostats, thermometers, etc.)
- Asbestos-containing materials

All materials accepted by Southside Recycling which require special handling are segregated and stored in designated areas prior to removal from the facility by contractors that are permitted/licensed to handle such materials. As an example, scrap propane cylinders are segregated and stored in an isolated area of the facility prior to being picked up by a qualified propane contractor (i.e. Ferrell Gas). As another example, containers that may have contained flammable or combustible materials are segregated and stored in another isolated area of the facility prior to being picked up by a licensed waste contractor that ships the materials offsite via waste manifest.

## 2. Education and notification of suppliers

As part of the Feedstock Management Plan, Southside Recycling notifies its suppliers about materials that require special handling through various means including verbal notification, placement of posters throughout the facility, written and/or e-mail correspondence, etc.

Exhibit A contains examples of informational posters that have been placed at strategic locations throughout the Southside Recycling facility in order to educate independent suppliers regarding Southside Recycling's acceptance policy for materials that require special handling. Exhibit B contains an example of a notice that is sent to larger material suppliers.

## 3. Vehicle supplier certification

All suppliers of End-of-Life Vehicles (ELVs) are required to sign a Drain Statement certifying that all ELVs will be drained of fluids prior to delivery to Southside Recycling.

Exhibit C contains a sample Drain Statement that is sent to all suppliers of ELVs.

## 4. Visual inspection of incoming material at truck scale

All supplier trucks entering the Southside Recycling facility are weighed on a truck scale. The scale operator visually inspects each incoming load of metallic recyclable material. If any materials that require special handling are observed, the scale operator notifies the team of inspectors and the suspect materials are closely examined to determine a proper course of action.

5. Visual inspection during unloading of incoming material by yard inspectors

All incoming material is inspected by yard inspectors during unloading. If any materials that require special handling are observed, the suspect materials are segregated from the load. During all times of unloading time there are multiple inspectors on duty inspecting loads throughout the facility.

6. Visual inspection during material handling by heavy equipment operators

Crane and loader operators visually observe material throughout the material handling process. If any materials that require special handling are observed, the operator notifies the yard inspector and the suspect materials are segregated from the load.

7. Personnel training

Southside Recycling scale operators, yard inspectors and heavy equipment operators are all trained upon employment, and at least annually thereafter, with respect to scrap material inspection procedures and identification of materials that require special handling. Annual training of designated personnel occurs at OSHA Hazard Communication/Right-to-Know training sessions.

# **Exhibit A**



# ATTENTION!

# ATENCIÓN

**You must tell the scale operator if your load includes any tanks like these.**

**Ud. debe decirle el operador de la balanza si su carga incluye cualquier tanques como estos.**

**We will pay you for them, but we MUST separate these tanks from the rest of your load. Failure to comply will result in penalties, we thank you for your cooperation.**

**Nosotros le pagaremos por los tanques pero nosotros debemos separarlos del resto de su carga. Si no cumples con estas reglas, RESULTARÁ EN PENALIDADES, gracias por su cooperación.**





Una manera de ganar mas dinero es.  
Protegiendo nuestro sistema ambiental  
\$\$\$\$\$

Ustedes **DEBEN** separar las piezas completas de su carga y les pagaremos por esas piezas o pueden sacarle el PCB de el capacitador o de la balastra y venderlo en el departamento de Southside Recycling para recibir mas dinero.



You **MUST** either separate the whole piece of metal from your load and we will pay for it or you can take off the PCB capacitor and PCB ballast and sell it to Southside Recycling for more money.

**We are helping to clean the environment and you make more money.**

\$\$\$\$\$

Usted **DEBE** informar al personal de **Southside Recycling** en la yarda si tiene contenedores que puedan contener materiales flamables o combustibles (ver los ejemplos a continuación). **Southside Recycling PUEDE** estar de acuerdo aceptar dichos materiales **SI** **Southside Recycling** determina que los articulos se pueden manejar de forma segura y eliminarlos al acuerdo con las reglas federales, estatales y locales aplicables.



## **SOLVENTES (SOLVENTS)**



## **LIQUIDOS FLAMABLES (LIQUID FUELS)**



## **PINTURAS O QUIMICOS (PAINTS OR COATINGS)**



You **MUST** inform **Southside Recycling** yard personnel if you have any containers that may contain flammable or combustible materials (See examples above). **Southside Recycling MAY** agree to accept such containers **IF** **Southside Recycling** determines that the item(s) can be handled safely and disposed of in accordance with applicable federal, state and local regulations.

Usted **DEBE** informar al personal de Southside Recycling en la yarda si tiene algún material que pueda provocar un incendio (ver los ejemplos a continuación). Southside Recycling **PUEDE** estar de acuerdo para aceptar dichos materiales **SI** Southside Recycling determina que los artículos se pueden manejar de forma segura y eliminarlos al acuerdo con las reglas federales, estatales y locales aplicables.



## **BATERIAS CON ACIDO (LITHIUM BATTERIES)**



## **HERRAMIENTAS QUE CONTENGAN BATERIAS**

**(BATTERY OPERATED  
TOOLS & TOYS)**



## **PARRILLAS CON GAS (SELF STARTING GRILLS)**



You **MUST** inform Southside Recycling yard personnel if you have any materials that may cause a fire (See examples above). Southside Recycling **MAY** agree to accept such materials **IF** Southside Recycling determines that the item(s) can be handled safely and disposed of in accordance with applicable federal, state and local regulations.

# **Exhibit B**

Dear \_\_\_\_\_:

As you know, some recyclable materials can pose a threat to human health and/or the environment if not recycled or disposed of properly. As such, the following materials **MAY** be accepted at Southside Recycling, but **ONLY IF** it is determined that such materials can be handled and disposed of in accordance with applicable federal, state and local rules and regulations.

**Flammable/Combustible Materials**

- Any scrap material that may have contained potential flammable or combustible materials must be segregated from all loads delivered to Southside Recycling (See examples below).



SOLVENTS



LIQUID FUELS



PAINTS OR COATINGS

**Potential Fire Hazards**

- Any scrap material that has the potential to cause a fire must be segregated from all loads delivered to Southside Recycling (See examples below).



LITHIUM & LEAD-ACID BATTERIES



BATTERY OPERATED TOOLS & TOYS



SELF STARTING GRILLS



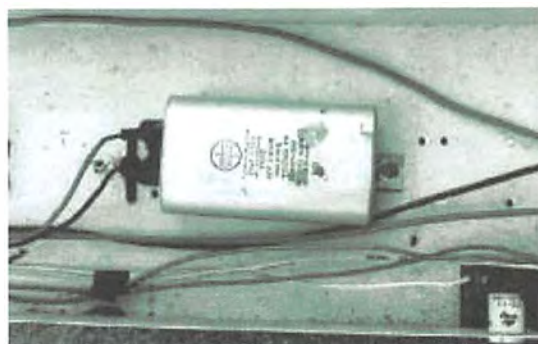
**Compressed Gas Cylinders**

- Intact compressed gas cylinders must be segregated from all loads delivered to Southside Recycling (See examples below).



**Ballasts and capacitors**

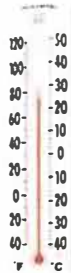
- Ballasts and capacitors must be segregated from all loads delivered to Southside Recycling (See examples below).



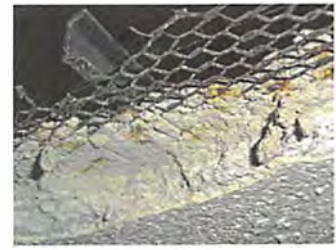
## Hazardous Materials

The following materials must be segregated from all loads delivered to Southside Recycling:

- Mercury containing materials (i.e. thermostats, thermometers, baumanometers, switches, fluorescent or mercury vapor lights, etc.).



- Asbestos-containing materials (i.e. pipe insulation, surfacing materials, etc.).



- Aerosol cans that are not punctured and empty.



## Electronics

- The following items will only be accepted incidentally since Southside Recycling is not a registered Electronics Recycler:

- Televisions of any kind including CRT, plasma, LCD, LED
- Computer Monitors
- Computers and Small-Scale Servers
- Electronic Keyboards & Mice
- Printers, Fax Machines, and Scanners
- DVD Players, DVD Recorders, and VCRs
- Digital Converter Boxes, Cable Receivers, and Satellite Receivers
- Portable Digital Music Players and Video Game Consoles



## Appliances

- Appliances containing refrigerants will be accepted but **only** if supplier provides notification in accordance with the Southside Recycling Refrigerant Recovery Contract, which will allow Southside Recycling the opportunity to properly recover any remaining refrigerant from the appliance.



## Closed Containers

- Any container (tank, drum, etc.) that is sealed and/or cannot be inspected for interior contents will **NOT** be accepted under **ANY** circumstances.



# **Exhibit C**

**VENDOR # \_\_\_\_\_**

**Southside Recycling  
11600 S. Burley Avenue  
Chicago, IL 60617**

**DRAIN STATEMENT**

I hereby certify that all end-of-life vehicles supplied for recycling to Southside Recycling have been drained of fluids prior to delivery to Southside Recycling.

Supplier: \_\_\_\_\_

*Name*

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

*Street*

\_\_\_\_\_

*City*

*State*

*Zip Code*

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

*Signature*

\_\_\_\_\_

*(PRINT NAME HERE)*

\_\_\_\_\_

*(PRINT TITLE HERE)*

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



**Large Recycling Facility Permit Application  
Southside RecyclingC  
11554 S. Avenue O - Chicago, Illinois**

**November 2020**

**Attachment X  
Devices, Apparatus, and Processes**



### **3.10.3 Devices, Apparatus and Processes**

#### **Health and safety plan that includes all job hazard assessments and a description of the OSHA-required safety devices or procedures employed for all processing equipment (i.e. guarding, lockout devices, etc.)**

General III, LLC is committed to conducting all operations in a safe and responsible manner that respects the environment, our employees, customers and the community where we operate. We will comply with all applicable regulatory requirements at a minimum, and implement programs and processes to achieve greater protection, where appropriate.

General III, LLC will work to eliminate unsafe conditions and actions in our workplaces so as to prevent the occurrence of all work-related injuries, illnesses and property losses.

Employees are responsible for performing their job activities in a safe and reasonable manner in accordance with local safety rules, any safety related instructions given to them, and the training they have received. The training an employee receives is specific to his/her job responsibilities and may include, but not be limited to: Control of Hazardous Energy, Powered Industrial Truck Operation, Hazard Communication and Right to Know, Hearing Conservation, Machine Guarding, etc.

General III, LLC will conduct job safety analyses of its operations at the commencement of its operations and will use the information attained during this process to improve its Health and Safety Plan.

#### **Description and results of any OSHA-required worker air and noise exposure sampling for Facility activities (i.e. welding, torching, etc.)**

In accordance with OSHA 29 CFR 1910.95, Occupational Noise, General III, LLC, will conduct a noise monitoring evaluation at the commencement of its operations to implement an accurate Hearing Conservation Program.

General III, LLC, will conduct an air monitoring evaluation at the commencement of its operations to determine if its needs to implement OSHA 29 CFR 1910.134; Respiratory Protection Program.

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