LABELLA Associates, D.P.C.
Engineering
Architecture
Environmental
Planning

Periodic Review Report:
August 6, 2016 to August 6, 2017
NYSDEC BCP Site No. C828134

Location:

Former Steve Joy's Sunoco
3865 & 3875 West Henrietta Road
Town of Henrietta, New York

Prepared for:

RJ Dorschel Corporation
3817 West Henrietta Road
Rochester, New York 14623

LaBella Project No. 209395

August 2017

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LaBella Associates, D.P.C.
300 State Street
Rochester, New York 14614

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1.0 INTRODUCTION

LaBella Associates, D.P.C. (LaBella) is pleased to submit this Periodic Review Report (PRR) for the Former Steve Joy's Sunoco property located at 3865 and 3875 West Henrietta Road (NYS Route 15) (hereinafter referred to as the "Site") under the New York State (NYS) Brownfield Cleanup Program (BCP) Site #C828134 administered by New York State Department of Environmental Conservation (NYSDEC). The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index #B8-0719-06-06, Site # C828134. A Site Location Map is included as Figure 1.

The Site is located in the Town of Henrietta, County of Monroe, New York and is comprised of the following two (2) parcels of land:

- 3865 West Henrietta Road, an approximate 1-acre parcel identified as Block 161.15-1 and Lot 20.1; and
- 3875 West Henrietta Road, an approximate 1.5-acre parcel identified as Block 161.19-1 and Lot 9.

The Site is improved with the following structures:

- A 4,692$^{\pm}$ square foot building on the 3865 West Henrietta Road parcel; and
- A 12,468 $^{\pm}$ square foot building on the 3875 West Henrietta Road parcel.

The properties surrounding the Site are commercial properties. The properties directly adjacent to the Site and their current occupants are as follows:

- North – 3861 West Henrietta Road, Pizza Hut Restaurant;
- East – West Henrietta Road Right-of-way (ROW), then 3870 West Henrietta Road, Lewis General Tire, Inc.;
- South – 3883 West Henrietta Road, an auto dealership; and
- West – overflow parking lots associated with the 3883 West Henrietta Road property.

A Site Plan (included as Figure 2), illustrates the Site boundaries and the adjacent properties.

1.1 Environmental History

Previous environmental investigations (Pre-BCP work) at the Site identified the nature and extent of contamination to be limited to petroleum contamination in soil, groundwater, and soil vapor. The apparent source of the petroleum impacts was from six (6) petroleum underground storage tanks (USTs) and five hydraulic lifts.

The Pre-BCP and BCP Investigation work at the Site included: advancing 73 soil borings; excavating nine (9) test pits; installing 16 groundwater monitoring wells; the installation of sub-slab soil vapor sampling points; and collecting samples of soil, groundwater, sub-slab vapor, and indoor/outdoor air. Based on the work completed, it was determined that the predominant contaminants at the Site were petroleum-related volatile organic compounds (VOCs) in soil and groundwater.

Petroleum-related semi-volatile organic compounds (SVOCs), chlorinated solvents, and metals were also detected in groundwater, along with a limited area of metals in surface soils. Based on these findings, the following specific areas of contamination were identified:

- Petroleum impacted soil and groundwater between the 3865 Parcel Building and West Henrietta Road, in the area of the former pump islands, was identified at concentrations above the NYSDEC Part 375-6 Restricted Commercial Use Soil Cleanup Objectives and the NYSDEC Part 703 Groundwater Standards;
- Petroleum impacted soil directly north of the central portion of the 3875 Building associated with a UST was identified in the field as impacted;
- Petroleum impacts in soil around hydraulic lifts within the western portion of the 3875 Building was identified in field observations;
- An area of surface soils along West Henrietta Road impacted with the metals (arsenic and barium) was identified at concentrations above the NYSDEC Part 375-6 Restricted Commercial Use Soil Cleanup Objectives;
- Concentrations of VOCs in the sub-slab soil vapor and indoor air at both buildings at the Site were identified; and
- VOCs and metals in groundwater on the 3875 Parcel were identified at concentrations above the NYSDEC Part 703 Groundwater Standards.

The Remedial Measures completed at the Site have included two (2) Interim Remedial Measures (IRMs) consisting of the removal of USTs and soil. The soil removed during the IRM was transported to an off-site location for treatment in a bio-cell. In addition, a final remedy at the Site consisted of the removing hydraulic lifts, soil and groundwater. The remedies and Areas of Concern (AOC) designation from the Remedial Action Work Plan (RAWP) are summarized below:

- Removal and bioremediation of approximately 1,740 cubic yards of petroleum-impacted soils from AOC #1. This resulted in removing all soils above the NYSDEC Part 375-6.8(b) Protection of Groundwater SCOs with the exception of two areas due to underground utilities, the West Henrietta Road ROW and the on-site building.
- Removal and disposal of six underground storage tanks and their contents, which consisted of approximately 8,000 gallons of petroleum impacted waters and 600 gallons of waste oil.
- Removal and disposal of five hydraulic lifts (AOC #2) and removal and off-site disposal of approximately 85 tons of petroleum impacted soil from seven hydraulic lift locations (i.e., 2 former locations and the 5 lifts removed as part of this project).
- Removal and disposal of a 5-ft. by 5-ft. area to 1-ft. in depth of surface soils impacted with heavy metals. The heavy metals were identified during the RI in surface soil sample SS-1 located along the eastern edge of the 3865 West Henrietta property boundary and was identified as AOC #5.
- Installation of a sub-slab depressurization system (SSDS) to mitigate the potential for vapor intrusion within (AOC #3) the existing building at the 3865 West Henrietta Road parcel. Pressure field extension testing was completed on each of the monitoring points after the installation of the SSDS, and confirmed the system influences the entire slab area. An SSDS was also installed at the 3875 Parcel building during redevelopment of the Mini Cooper dealership in 2012.

- An Environmental Easement was executed and recorded to restrict land use and prevent future exposure to any contamination remaining at the Site.
- Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) Institutional and Engineering Controls, (2) monitoring, (3) operation and maintenance and (4) reporting.

2.0 PURPOSE AND SCOPE OF WORK

The purpose of this report is to present the monitoring work completed at the Site during the time period of August 6, 2016 to August 6, 2017. This work was completed in general accordance with the provisions identified in the SMP. As required in the SMP, this report includes the following information:

- Identification, assessment and certification of all Engineering Controls/Institutional Controls (ECs/ICs) required by the remedy for the Site;
- Results of the required annual site inspections and severe condition inspections, if applicable;
- All applicable inspection forms and other records generated for the Site during the reporting period in electronic format (included in report);
- A summary of any discharge monitoring data and/or information generated during the reporting period with comments and conclusions;
- Data summary tables and graphical representations of contaminants of concern by media, including: a list of all compounds analyzed; applicable regulatory standards, with all exceedances highlighted: and a presentation of past data as part of an evaluation of contaminant concentration trends;
- Results of all analyses, copies of all laboratory data sheets, and the required laboratory data deliverables for all samples collected during the reporting period will be submitted electronically in a NYSDEC-approved format;
- A Site evaluation, which includes the following:
    - The compliance of the remedy with the requirements of the Site-specific RAWP;
    - Any new conclusions or observations regarding Site contamination based on inspections or data generated by the Monitoring Plan for the media being monitored;
    - Recommendations regarding any necessary changes to the remedy and/or Monitoring Plan; and
    - The overall performance and effectiveness of the remedy.

3.0 ANNUAL MONITORING

The original SMP identified the ongoing monitoring of the performance of the remedy, via semi-annual sampling of two (2) existing groundwater monitoring wells (3865 Parcel: MW-7 and 3875 Parcel: MW-3R). The original SMP indicated that monitoring the overall reduction in contamination on-site would be conducted for the first two (2) years, with the frequency thereafter to be determined by NYSDEC. The NYSDEC approved annual monitoring of the two (2) wells for VOCs only in a letter dated July 22, 2013. Trends in contaminant levels in groundwater in the affected areas will be evaluated to determine if the remedy continues to be effective in achieving remedial goals.

The original SMP also required a semi-annual inspection of the SSDS and semi-annual monitoring of the biocell soils. In their July 22, 2013 letter, the NYSDEC also approved discontinuing monitoring of the biocell soils.

The current monitoring program is summarized in the following table and was included in the June 2014 SMP update.

Schedule of Monitoring/Inspections

Monitoring Program	Frequency*	Matrix	Analysis
Groundwater Monitoring	Annual	Groundwater	1) VOCs using USEPA Method 8260 (NYSDEC STARS-list for 3865 parcel wells and TCL VOCs for 3875 parcel wells)
Sub-Slab Depressurization System Inspection	Annual	Sub-Slab Vapor	None

* The frequency of events will be conducted as specified until otherwise approved by NYSDEC and NYSDOH

3.1 Groundwater Monitoring

Groundwater monitoring for this PRR was conducted in June 2017. Monitoring wells MW-3R (replacement well) and MW-7 were sampled on June 16, 2017 and June 17, 2016, respectively. The locations of these wells are shown on Figure 3.

Static water levels (SWLs) were collected during the June 2017 groundwater sampling event. The groundwater samples were collected using a modified low-flow sampling procedure with a peristaltic pump. During the sampling event, disposable tubing was utilized between wells, and, as such, decontamination of equipment was not required.

During the sampling event, field measurements of water quality parameters were collected using a Horiba U-52-2 water quality meter equipped with an in-line flow cell. During the sampling event, the following field measurements were collected:

- pH
- Conductivity
- Temperature
- Oxygen Reduction Potential (ORP)
- Turbidity
- Dissolved Oxygen (DO)

During the sampling event, water quality parameter readings were recorded at regular time intervals prior to the collection of groundwater samples. Water quality stabilization criteria are summarized in the following table.

Measurement	Maximum Variability for 3 Consecutive Readings
pH	+/- 0.1 standard units
Conductivity	+/- 3 %
Oxidation Reduction Potential	+/- 10 mV
Turbidity	+/- 10 %
Dissolved Oxygen	+/- 10 %

During the sampling event, the required criteria were met prior to sample collection at MW-3R. In addition, the SWL in MW-3R was monitored during the sampling event to confirm that drawdown in the well was minimized.

Due to limited water volume in MW-7, on June 16, 2017 MW-7 was purged "dry", and the well was allowed to recharge overnight. A groundwater sample was collected from MW-7 on the afternoon of June 17, 2017.

Groundwater sampling logs that include the in-field parameter measurements are included as Appendix A.

Environmental Science Corporation of Mt. Juliet, Tennessee (ESC) analyzed the groundwater samples collected during the groundwater monitoring event. ESC is a New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified laboratory. The samples were analyzed for NYSDEC CP-51-list and United States Environmental Protection Agency (USEPA) Target Compound List (TCL) VOCs using USEPA Method 8260.

The laboratory data from the groundwater monitoring event were reported in an Analytical Services Protocol (ASP) Category B Deliverable and a Data Usability Summary Report (DUSR) was prepared for the data. The DUSR is included as Appendix B. As previously requested by the NYSDEC, the ASP Category B laboratory analytical report will be provided separately.

3.2 Sub-Slab Depressurization System (SSDS) Monitoring

This section discusses the SSDS monitoring performed on August 4, 2017 in the two (2) on-site buildings.

3865 West Henrietta Road Building

The SSDS in the 3865 West Henrietta Road building was monitored on August 4, 2017 in order to verify proper operation of the system. Because the manometer installed on this SSDS is now located within the wall of the women's restroom and is accessible via a removable wall panel, NYSDEC requested in October 2015 that an alarm be installed on the SSDS. The purpose of the alarm is to monitor proper operation of the SSDS; this alarm was installed in late 2015.

The location of the SSDS venting point/fan that operates the SSDS for the 3865 Building is shown on

Figure 3, and an as-built drawing of the SSDS is included in Appendix D. At the fan location, the following inspections were made:

- the in-line U-tube manometer on the suction side of the piping system was observed to determine a pressure differential of approximately 2.5 inches of water column which is consistent with historic readings and indicates the SSDS is operating properly;
- the condition of the piping was observed to determine if any portion of the piping required repair;
- the fan was working properly; and
- labeling of the system was intact.

Based upon the inspections, the SSDS appeared to be in good working order (i.e., the manometer indicated the SSDS was working, the fan was observed to be working, and the piping appeared in good condition). Copies of the inspection form and a photograph from the inspection are included in Appendix C.

3875 West Henrietta Road Building

The SSDS in the 3875 West Henrietta Road building was monitored on August 4, 2017 in order to verify proper operation of the system. The SSDS for the 3875 Building is shown in the as-built drawings included in Appendix D. At the fan location, the following inspections were made:

- the sub-slab monitoring points were measured with a digital micro-manometer to determine a pressure differential between the sub-slab and indoor air. The results of this monitoring are summarized in the following table;

Location	**August 4, 2017 Monitoring Event**	
	Valve 1 Measurement (inches of H_2O)	**Valve 2 Measurement (inches of H_2O)**
Northern Point (customer reception)	- 0.612	- 0.060
Southern Point (service area)	- 0171	- 0.007

- the condition of the piping was observed to determine if any portion of the piping required repair;
- the fan was working properly; and
- labeling of the system was intact.

Based upon the inspections, the SSDS appeared to be in good working order (i.e., the micro-manometer readings indicated the SSDS was working, the fan was observed to be working, and the piping appeared in good condition). A copy of the inspection form is included in Appendix C.

3.3 Deviations from SMP

No deviations were encountered during this monitoring period.

4.0 GROUNDWATER FLOW CONTOURS

Although static water level measurements were collected during the June 2017 groundwater monitoring event, this sampling event included only two (2) monitoring wells. Historic monitoring information previously presented to the NYSDEC describes the groundwater flow regime at the Site. For informational purposes, groundwater contour maps from October 2011 and July 2012 are included as Figures 4A and 4B, respectively.

5.0 SUMMARY OF GROUNDWATER MONITORING

Groundwater monitoring was performed in June 2017 and included two (2) existing groundwater monitoring wells (3865 Parcel: MW-7 and 3875 Parcel: MW-3R), as shown on Figure 3.

The results of the groundwater monitoring are summarized in Table 1 (VOCs) and are compared to the NYSDEC Part 703 groundwater standards. As summarized in the attached Table 1 and the following table, VOCs were reported above NYSDEC Part 703 groundwater standards in the groundwater samples collected during the June 2017 groundwater monitoring event.

Well ID	Site Parcel	VOC(s) above Part 703 Groundwater Standards
MW-7	3865 Parcel	Benzene; Ethylbenzene; n-Propylbenzene; Isopropylbenzene; Naphthalene; Toluene; 1,2,4-Trimethylbenzene; 1,3,5-Trimethylbenzene; Xylenes; Chlorobenzene; and Cyclohexane
MW-3R	3875 Parcel	Chlorobenzene

6.0 SITE EVALUATION

The annual monitoring work conducted from August 6, 2016 to August 6, 2017 was completed in accordance with the SMP, with any exceptions noted in Section 3.3.

Groundwater Monitoring

Most of the previously existing groundwater monitoring wells at the Site have been destroyed or paved over during the redevelopment activities at the Site.

The analytical results from the June 2017 groundwater sampling event indicates that VOC concentrations appear stable in MW-7 and MW-3R, as shown in the graphs included in Appendix E. In addition, with regard to MW-3R, the reported VOC concentrations are relatively low-level, and only Chlorobenzene exceeds its associated Part 703 Groundwater Standard.

Based on the above, no changes to the current monitoring program are proposed.

The remedial program outlined in the SMP has effectively achieved progress toward meeting the remedial

objectives for the Site. Continued monitoring of the SSDS and the implementation of the SMP should ultimately achieve the remedial objectives for the Site. The next groundwater sampling event is scheduled for Spring 2018.

7.0 INSTITUTIONAL AND ENGINNERING CONTROLS CERTIFICATION

The completed NYSDEC Institutional and Engineering Controls Certification Form is included in Appendix F.

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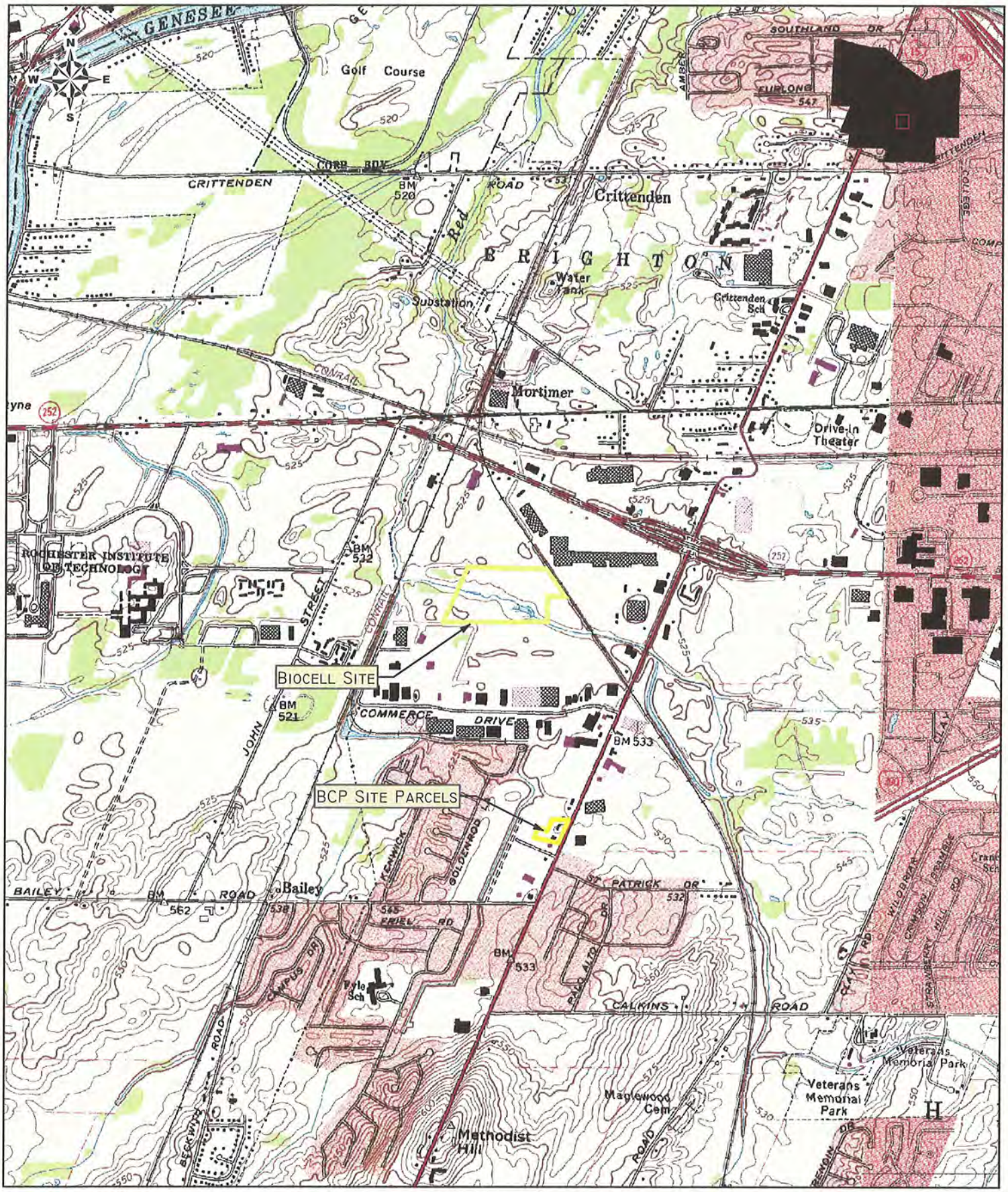
FIGURES



PROJECT DRAWING NUMBER

209395

FIGURE 1

DRAWING TITLE

SITE LOCATION MAP

1:24,000

ISSUED FOR: REVIEW

DATE: 8/28/09

DESIGNED BY: RCN

DRAWN BY: RCN

REVIEWED BY: DPN

PROJECT NAME

SITE MANAGEMENT PLAN

BCP SITE #C8281324
3865 & 3875 WEST HENRIETTA RD
ROCHESTER, NY 14623

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Y:\RJ Dorschel Corp\209395\Drawings\PRR 2011\Fig2 Site Area Map.mxd

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Periodic Review Report
NYSDEC BCP Site #C8281324
3865 & 3875 West Henrietta Rd
Henrietta, New York

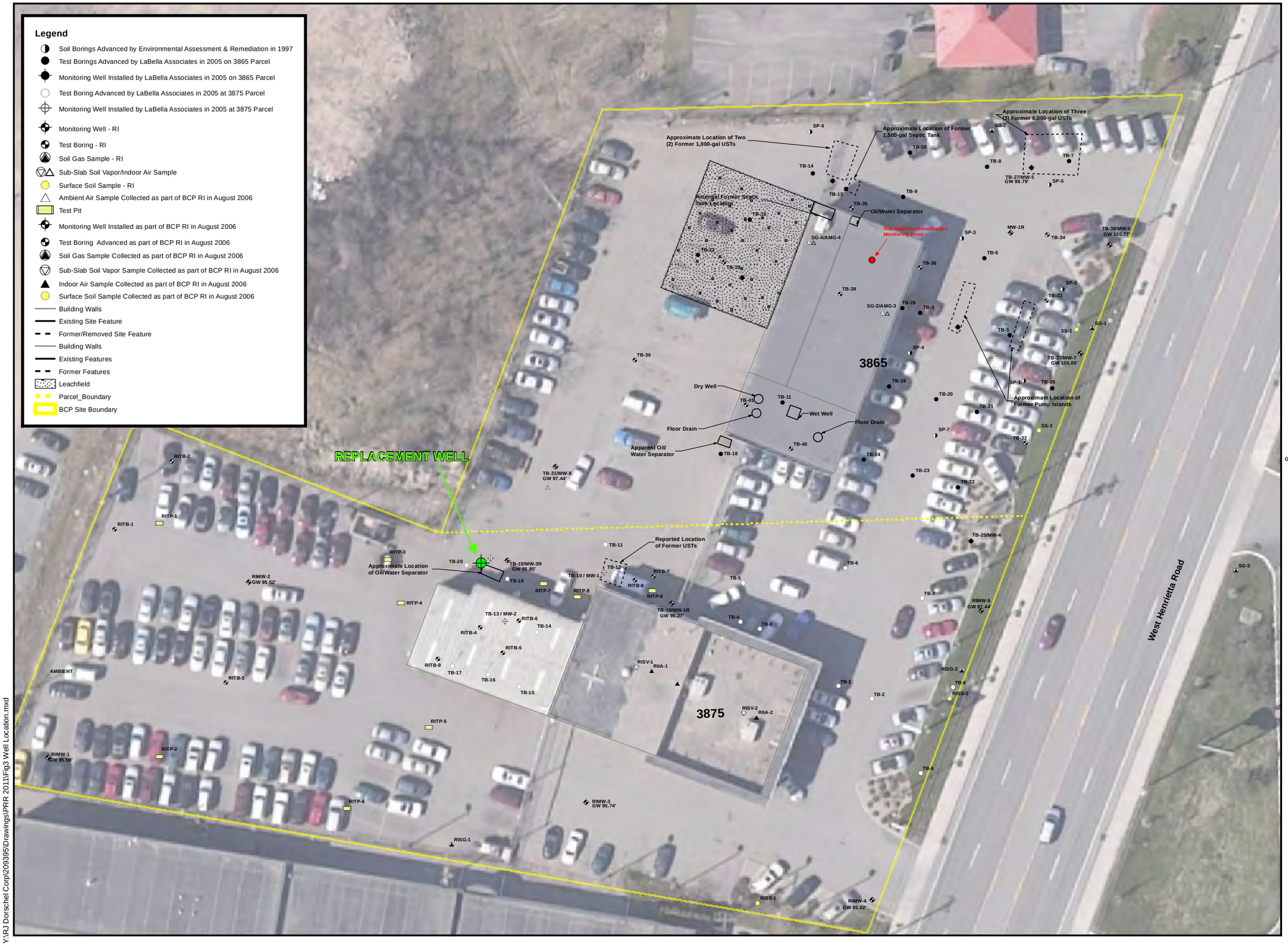
R.J. Dorschel Corporation

Site Plan and Surrounding Properties

N
W E
S

209395

FIGURE 2



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Groundwater Monitoring Well Locations and Location of Sub-Slab Depressurization Fan

N
W E
S

0 10 20 40
1 inch = 40 feet

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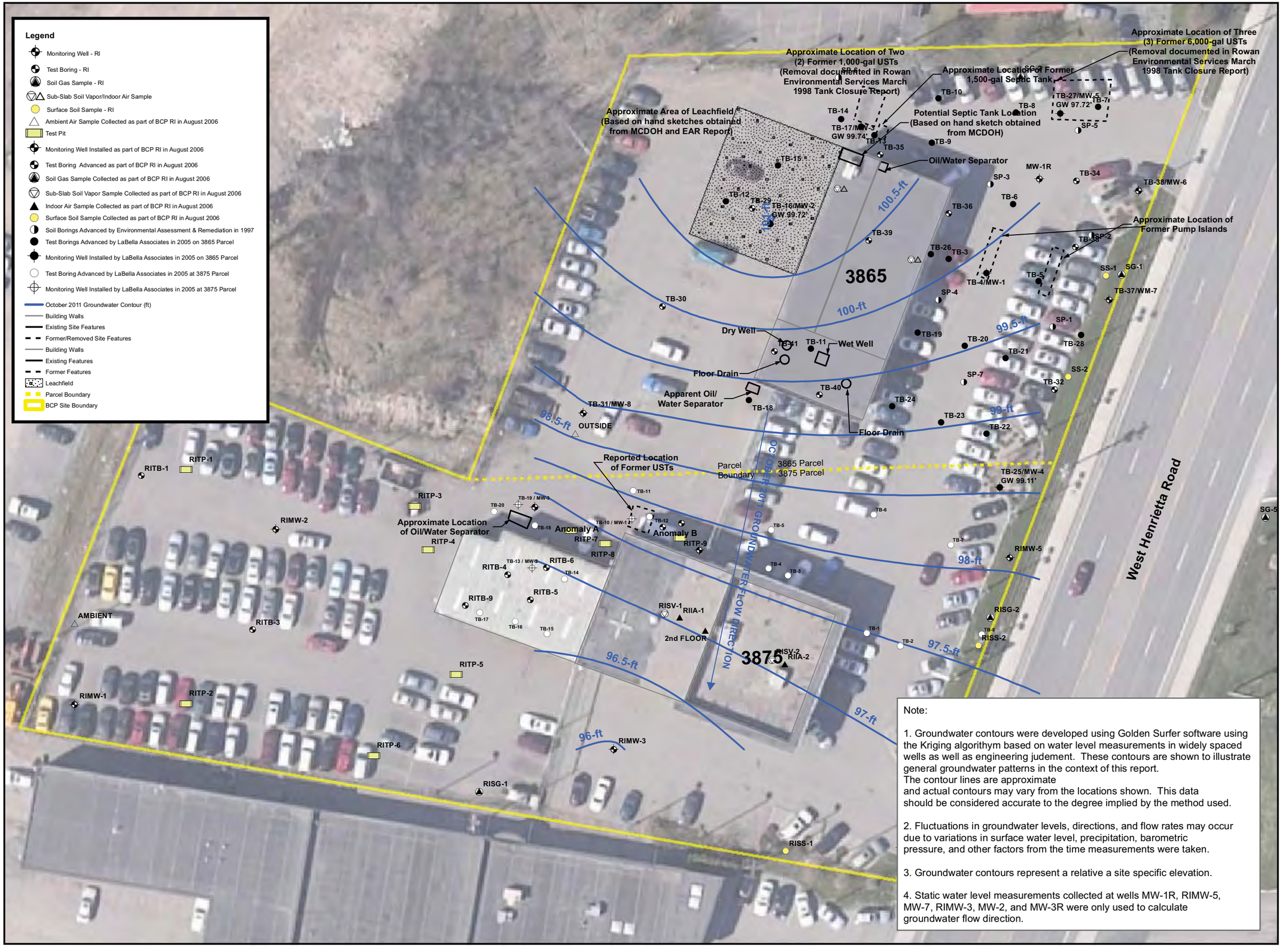
FIGURE 3

Y:\RJ Dorschel Corp\209395\Drawings\PRR 2011\Fig3 Well Location.mxd



Note:

1. Groundwater contours were developed using Golden Surfer software using the Kriging algorithym based on water level measurements in widely spaced wells as well as engineering judement. These contours are shown to illustrate general groundwater patterns in the context of this report.
The contour lines are approximate
and actual contours may vary from the locations shown. This data should be considered accurate to the degree implied by the method used.

2. Fluctuations in groundwater levels, directions, and flow rates may occur due to variations in surface water level, precipitation, barometric pressure, and other factors from the time measurements were taken.

3. Groundwater contours represent a relative a site specific elevation.

4. Static water level measurements collected at wells MW-1R, RIMW-5, MW-7, RIMW-3, MW-2, and MW-3R were only used to calculate groundwater flow direction.

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Periodic Review Report
NYSDEC BCP Site #C8281324
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Henrietta, New York

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October 2011 Groundwater Contours and Site Location Plan

0 5 10 20

1 inch = 40 feet

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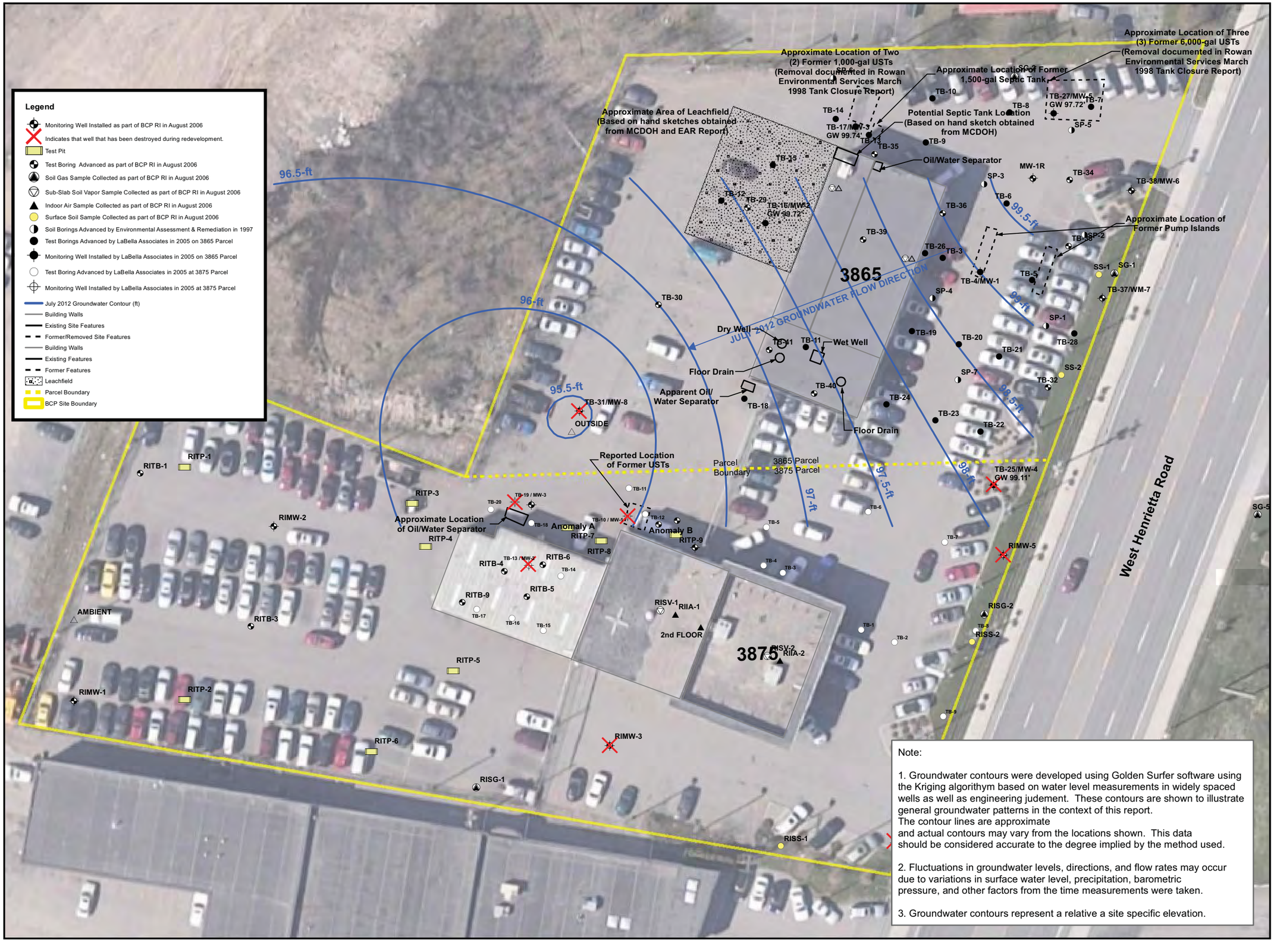
FIGURE 4A



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Periodic Review Report
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July 2012
Groundwater Contours and Site Location Plan

0 5 10 20

1 inch = 40 feet

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FIGURE 4B

Y:\RJ Dorschel Corp\209395\Drawings\PRR 2011\Fig5B Groundwater Contour Oct 2010.mxd

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TABLE 1

Groundwater Monitoring Results - VOCs

Table 1

Groundwater Monitoring
3865 & 3875 West Henrietta Road, Henrietta, New York
NYSDEC Brownfield Cleanup Program ID No. C828134

Summary of Detected Volatile Organic Compounds (VOCs) in Groundwater
Test Results in Micrograms per Liter (µg/L) or Parts Per Billion (ppb)

Constituent	3865 Parcel												3875 Parcel									NYSDEC Part 703: Groundwater Standard
	MW-7												MW-3R									
	September 2006	May 2007	June 2010	October 2010	May 2011	October 2011	July 2012	March 2014	May 2015	October 2015	June 2016	June 2017	May 2007	June 2010	October 2010	May 2011	October 2011	April 2014	May 2015	October 2015	June 2016	June 2017	
Petroleum-Related Volatile Organic Compounds																							
Benzene	**370**	**410**	**740** E	**750** D	ND<5.0	**730**	**870**	**1,150**	**1,200**	**816**	**848**	**675**	ND<5.0	**2.3** J	**2.8** J	**3.1** J	**31.7**	ND<0.7	ND<50	ND<1.00	ND<1.00	ND<1.00	1
Ethyl ether	---	---	---	---	---	---	---	---	---	---	---	---					ND<1.0	---	ND<1.0	---	---	---	Not Available
Ethylbenzene	**880**	**790** E	**250** E	**620** D	ND<5.0	**266**	**610**	**1050**	**950**	**786**	**258**	**332**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	**5.2**	ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	5
sec-Butylbenzene	ND <50	**23**	3 J	**5.6**	ND<5.0	ND<100	**11**	ND<40.0	**7.7**	**7.89**	**6.29**	ND<10.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	5
n-Propylbenzene	ND <50	**260** E	**13**	**36**	ND<5.0	ND<100	**86**	**108**	**110**	**89.1**	**18.2**	**22.0**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	5
Isopropylbenzene	**78**	**91**	**13**	**33**	ND<5.0	ND<100	**44**	**49.9**	**49**	**43.0**	**21.0**	**18.3**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	5
p-Isopropyltoluene	ND <50	**22**	ND<5.0	---	ND<5.0	ND<100	ND<5.0	ND<40.0	**7.1**	**7.27**	**6.71**	ND<10.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	5
n-Butylbenzene						ND<100	**32**	**28.8** J	**12**	**11.0**	4.16	ND<10.0						ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	5
Naphthalene	ND <50	**1,100** E	**240** BE	**330** DJ	ND<5.0	**419**	**480**	**478**	**600**	**423**	**620**	**642**	ND<5.0	1.4 BJ	ND<5.0	ND<5.0	ND<1.0	ND<5.0	ND<5.0	ND<5.00	ND<5.00	ND<5.00	10
Toluene	**980** D	**690** E	**260** E	**180**	ND<5.0	**106**	**35**	**156**	**120**	**73.9**	**71.9**	**67.6**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	1.7	ND<2.0	ND<5.0	ND<5.00	ND<5.00	ND<1.00	5
1,2,4-Trimethylbenzene	ND <50	**1,100** E	**620** E	**730** D	ND<5.0	**1,400**	**1,200**	**1,390**	**1,300**	**1,380**	**1,540**	**1,750**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	1.3	ND<1.00	ND<1.00	ND<1.00	5
1,3,5-Trimethylbenzene	ND <50	**630** E	**210** E	**190** DJ	ND<5.0	**422**	**320**	**322**	**200**	**196**	**197**	**290**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	5
m,p-Xylene	ND <50	**2,100** E	**2,300** E	**4,700** D	ND<5.0	**6,190**	**2,800**	**4,190**	**2,900**	**2,620**	**3,220**	**3,610**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	2.2	ND<2.0	2.1	ND<2.00	ND<2.00	ND<2.00	5
o-Xylene	ND <50	**760** E	**450** E	**690** D	ND<5.0	**502**	**35**	**363**	**230**	**143**	**332**	**319**	ND<5.0	ND<5.0	ND<5.0	ND<5.0	3.9	ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	5
Tert-amyl methyl ether	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	3.4	---	---	---	---	---	Not Available
Tert-butanol / butyl alcohol	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	12.8	---	---	---	---	---	Not Available
Methyl-tert-Butyl Ether	ND <10	ND<5	2.4 J	2.4 J	5.6	ND<100	**18**	ND<40.0	ND<1.0	ND<1.0 U	ND<1.00	ND<10.0	2 J	ND<5.0	ND<5.0	1.2 J	**22.5**	2.97	2.5	1.56	2.25 J	1.35	10
Solvent-Related Volatile Organic Compounds																							
Acetone	40 J	ND<5						ND<200	**140**	ND <50.0	ND <50.0	ND <500	ND<5.0	42		ND<5.0	ND<10.0	ND<10.0	ND<50	ND <50.0	ND <50.0	ND <50.0	50
2-Butanone	ND<50	ND<5						ND<200	ND<10	ND <10.0	ND <10.0	ND <100	ND<5.0	8.1		ND<5.0	ND<10.0	ND<10.0	ND<10	ND <10.0	ND <10.0	ND <10.0	50
Cyclohexane	**140**	ND<5						**190** J	**100**	**113**	~~**82.3**~~ R	**79.5**	ND<5.0	ND<5.0		ND<5.0	Not Tested	ND<10.0	ND<1.0	ND<1.00	ND<1.00 R	ND<1.00	5
Chlorobenzene	ND<50	ND<5						ND<40.0	ND<1.0	ND<1.00	ND<1.00	ND<10.0	**11** J	3.9 J		**9.1**	ND<1.0	**67.3**	**120**	**106**	**103** J	**130**	5
Dichlorodifluoromethane	---	---						ND<40.0	ND<5.0	ND<5.00	ND<5.00	ND<50.0	---	---		---	ND<2.0	ND<2.0	ND<5.0	ND<5.00	ND<5.00	ND<5.00 J0	5
1,2-Dichlorobenzene	ND<50	ND<5	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	ND<40.0	ND<1.0	ND<1.00	ND<1.00	ND<10.0	ND<5.0	ND<5.0	Not Tested	ND<5.0	ND<10.0	1.4	2.7	2.42	2.41 J	2.80	5
cis-1,2-Dichloroethene	ND<50	ND<5						ND<40.0	ND<1.0	ND<1.00	ND<1.00	ND<10.0	1 J	ND<5.0		4.4 J	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	5
1,1-Dichloroethane	ND<50	ND<5						ND<40.0	ND<1.0	ND<1.00	ND<1.00	ND<10.0	1 J	ND<5.0		ND<5.0	1.2	ND<2.0	1.2	ND<1.00	1.24 J	ND<1.00	5
Methylcyclohexane	**59**	ND<5						**63.2**	**120**	ND<20 U	~~**37.6**~~ R	~~**44.8**~~ U	ND<5.0	ND<5.0		ND<5.0	Not Tested	ND<2.0	ND<1.0	ND<1.00	ND<1.00 R	ND<1.00	5
Methylene Chloride	ND<36	ND<5						ND<100	ND<5.0	ND<5.00	ND<5.00	ND<50.0	ND<5.0	ND<5.0		ND<5.0	ND<2.0	ND<5.0	ND<5.0	ND<5.00	ND<5.00	ND<5.00	5
trans-1,2-Dichloroethene	ND<50	ND<5						ND<40.0	ND<1.0	ND<1.00	ND<1.00	ND<10.0	ND<5.0	ND<5.0		ND<5.0	ND<1.0	ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	5
Vinyl Chloride	ND<50	ND<5						ND<40.0	ND<1.0	ND<1.00	ND<1.00	ND<10.0	**3** J	ND<5.0		**6.3**	1.8	ND<2.0	ND<1.0	ND<1.00	ND<1.00	ND<1.00	2
Total VOCs	2,547	7,976	5,101	8,267 D,J	5.6	10,035	6,541	9,286	8,046	6,709	7,143.26	7,805.40	18	57.7	2.8 J	24.1 J	86.4	71.67	129.8	109.98	108.90	134.15	
Total VOC TICs	9,980	5,795	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	ND	ND	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Tested	Not Available
Total VOCs and VOC TICs	12,527	13,771	5,101	8,267	5.6	10,035	6,541	9,286	8,046	6,709	7,143.26	7,805.40	18	57.7	2.8	24.1	86.4	71.7	129.8	109.98	108.9	134.15	

Notes:
VOC analysis by USEPA Method 8260B TCL.
Bold Type denotes that the detected value exceeds its associated NYSDEC Part 703 Groundwater Standard.
ND<5.0 denotes compound not detected above the method detection limits.
J denotes an estimated value; the analyte was positively identified, but the associated numerical value is the approximate concentration of the analyte in the sample.
J0 denotes that the laboratory's calibration verification was outside of acceptance limits. Result is estima
D denotes that the compound was identified in a secondary dilution performed on the sample.
E denotes that the concentration of the compound was found to exceed the calibration range for the instrument.
U is a data qualifier indicating that during data validation, it was determined that the concentration reported by the laboratory should be "interpreted as undetected."
R is a data qualifier indicating that during data validation, it was determined that the concentration reported by the laboratory should be "rejected".

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX A

Groundwater Sampling Logs

LABELLA Associates, P.C.
300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-3R

Project Name: RJ Dorschel Groundwater Monitoring
Location: 3865 & 3875 West Henrietta Road
Project No.: 209395
Sampled By: K R Miller
Date: 6/16/2017
Weather: Sunny 80° F

WELL SAMPLING INFORMATION

Well Diameter: 2-inch
Depth of Well: 15 feet
Measuring Point: Top of Casing (TOC)
Pump Type: Geopump – Peristaltic

Static Water Level: 2.38 feet Below Top of Casing (BTOC)
Length of Well Screen: 5 feet
Depth to Top of Pump: Tubing inlet ±12.5 BTOC
Tubing Type: Poly

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (L/min)	Gallons Purged	pH	Temp °C	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	Redox (mV)	Depth to Water (ft. BTOC)	Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV		
										Flow thru cell filling
16:50			6.51	24.68	3.31	28.7	4.42	11		
16:55			6.48	22.96	3.36	19.9	6.23	17	4.06	
17:00			6.46	22.39	3.44	20.5	6.01	21		
17:05	<0.2		6.46	22.24	3.44	18.3	5.91	-7	5.05	
17:10			6.45	22.28	3.44	15.3	5.74	27	5.50	
17:15			6.45	22.71	3.41	14.4	5.59	29	5.50	
17:20			6.46	22.37	3.37	11.2	5.69	26	5.55	

Total ±1.5 Gallons Purged

Purge Time Start: 16:48 Purge Time End: 17:20 Final Static Water Level: 5.55 feet BTOC

OBSERVATIONS

No odor or sheen observed in connection with purged groundwater.

Groundwater sample collected 6/16/2017 at 17:25; two (2) 40-mL, HCl-preserved VOA containers filled and submitted for laboratory analysis.

LABELLA Associates, P.C.
300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: MW-7

Project Name:	RJ Dorschel Groundwater Monitoring
Location:	3865 & 3875 West Henrietta Road
Project No.:	209395
Sampled By:	K R Miller
Date:	6/16/2017 & 6/17/2017
Weather:	Sunny 80° F

WELL SAMPLING INFORMATION

Well Diameter:	1 inch	Static Water Level:	1.80 feet Below Top of Casing (BTOC)
Depth of Well:	7.5 feet	Length of Well Screen:	5 feet
Measuring Point:	Top of Casing (TOC)	Depth to Top of Pump:	Tubing inlet ±6 BTOC
Pump Type:	Geopump - Peristaltic	Tubing Type:	Poly

FIELD PARAMETER MEASUREMENT

Time	Pump Rate (L/min)	Gallons Purged	pH	Temp °C	Conductivity (µS/cm)	Turbidity (NTU)	Dissolved O_2 (mg/L)	Redox (mV)	Depth to Water (ft. BTOC)	Comments
			+/- 0.1		+/- 3%		+ 10%	+/- 10 mV		
19:10										Flow thru cell filling
19:13	<0.2		6.71	26.04	1.16	78.4	1.54	-80		Cannot measure depth to water,
19:18			6.57	19.36	1.32	63.4	0.98	-72		well diameter is too small.

Total ±0.1 Gallons Purged

Purge Time Start: 19:10 Purge Time End: 19:21 Final Static Water Level: N/A

OBSERVATIONS

Slight petroleum odor noted in connection with purged groundwater. Well purged "dry" on 6/16/2017, and was allowed to recharge overnight. Groundwater sample was collected on 6/17/2017 at 14:00; two (2) 40-mL, HCl-preserved VOA containers filled and submitted for laboratory analysis.

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX B

Data Usability Summary Report (DUSR)

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

3865 & 3875 WEST HENRIETTA ROAD
Project 209395
SDG: L917097
Sampled 6/16/2017 and 6/17/17

VOLATILE ORGANICS

MW-3R (L917097-01)
MW-7 (L917097-02)

DATA ASSESSMENT

An ASP Category B data package containing analytical results for two groundwater samples was received from Labella Associates, P.C. on 04Augl7. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the 3865 and 3875 West Henrietta Road site, were identified by Chain of Custody documents and traceable through the work of ESC Lab Sciences, the laboratory contracted for analysis. Analyses, performed according to SW-846 Method 8260C, addressed determinations of volatile organics. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation) was used as a technical reference.

The trichloroethene and bromomethane results from this group of samples have been qualified as estimations due to poor calibration performance.

The presence of methylcyclohexane in MW-7 could not be verified based on the mass spectra references included in the raw data. Methylcyclohexane should be interpreted as undetected in this sample.

CORRECTNESS AND USABILITY

Reported data should be considered technically defensible and completely usable in its present form. Results presenting a usable estimation of the conditions at the time of sampling have been flagged "U" or "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 09Aug 17

James B. Baldwin
DATAVAL Inc.

SAMPLE HISTORY

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation, or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the time of sample collection. Samples must remain chilled to 4±2°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 14 days, unpreserved VOC samples within 7 days. The holding time for VOC soils is 14 days. Aqueous semivolatile organics, pesticide and PCB samples must be extracted within seven days of collection. Soils must be extracted within 14 days. The extracts must then be analyzed within forty days of extraction. The holding times for cyanide and mercury samples are 14 and 28 days, respectively. Metals samples must be analyzed within six months.

This delivery group contained two groundwater samples that were collected from the 3865 and 3875 West Henrietta Road Site on 16Jun17 and 17Jun17. The samples were shipped to the laboratory, via FedEx, on 19Jun17 and were received the following morning. At the time of receipt, the sample cooler was found to be intact and properly chilled, with custody seals in place. A cooler temperature of 2.3°C was recorded at the time of receipt. Proper sample preservation was documented in the field custody record and verified at the time of analysis. These checks verified that both program samples were properly stabilized at a pH<2.

VOLATILE ORGANICS

This group of samples was analyzed for VOC 25Jun17. The SW-846 holding time requirements were satisfied.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

One method blank was analyzed with this group of samples. This blank demonstrated acceptable chromatography and was free of targeted analyte contamination exceeding the laboratory's reporting limit.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with the analysis of this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

The initial instrument calibration was performed on 19Jun17. Calibration standards of 0.25, 0.50, 1.0, 2.0, 5.0, 10, 25, 40, 75, 100 and 200 µg/l were included. With the exception of trichloroethene, each targeted analyte produced the required levels of instrument response and demonstrated an acceptable degree of linearity during this calibration. Trichloroethene standards, however, failed to produce the required levels of instrument response. The trichloroethene (TCE) results from MW-3R and MW-7 have been qualified as estimations based on this performance.

A calibration check standard was analyzed on 25Jun17, prior to the 12-hour period of instrument operation that included samples from this program. When compared to the initial calibration, an unacceptable shift was observed in the instrument response of bromomethane (27%). The bromomethane results from both program samples have been qualified as estimations based on this performance. It is noted that the response of trichloroethene remained low.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared, based on the laboratory's statistical acceptance criteria. When compared to the ASP requirements, however, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of

two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was demonstrated by each internal standard addition to this group of smaples.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

Although a sample from this project was not selected for matrix spiking, a pair of spiked blanks (LCS/LCSD) was analyzed with this group of samples. The recoveries reported from this LCS pair demonstrated acceptable levels of measurement precision and accuracy.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

A duplicate sample was not included in this delivery group. It is noted, however, that the previously addressed LCS/LCSD samples demonstrated an acceptable level of measurement precision.

Reported Analytes

Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Reference mass spectra were provided to confirm the identification of each analyte that was found in this group of samples. Tentatively Identified Compounds (TIC) were not reported.

The presence of methylcyclohexane in MW-7 could not be confirmed, based on the mass spectra references included in the raw data. Methylcyclohexane should be considered undetected in this sample.

SUMMARY OF QUALIFIED DATA

3865/3875 HENRIETTA STREET

SAMPLED: 6/16/2017 and 6/17/2017

		CALIBRATE TRICHLOROETHENE	CALIBRATE BROMOMETHANE	MASS SPECTRA ID METHYL CYCLOHEXANE
MW-3R	(L917097-01)	1.00UJ	5.00UJ	
MW-7	(L917097-02)	10.0UJ	50.0UJ	44.8U

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L917097-01	**SDG:**	L917097
Client Sample ID:	MW-3R	**Collected Date/Time:**	06/16/17 17:25
Lab File ID:	0625_09	**Received Date/Time:**	06/20/17 08:45
Instrument ID:	VOCMS6	**Preparation Date/Time:**	06/25/17 18:27
Analytical Batch:	WG992821	**Analysis Date/Time:**	06/25/17 18:27
Dilution Factor:	1	**Prep Method:**	8260C
Analytical Method:	8260C	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ug/l		*ug/l*	*ug/l*
Acetone	67-64-1	3.02	ND		10.0	50.0
Benzene	71-43-2	0	ND		0.331	1.00
Bromochloromethane	74-97-5	0	ND		0.520	1.00
Bromodichloromethane	75-27-4	0	ND		0.380	1.00
Bromoform	75-25-2	0	ND		0.469	1.00
Bromomethane	74-83-9	0	5.0 ~~ND~~ UJ		0.866	5.00
Carbon disulfide	75-15-0	0	ND		0.275	1.00
Carbon tetrachloride	56-23-5	0	ND		0.379	1.00
Chlorobenzene —	108-90-7	6.35	130		0.348	1.00
Chlorodibromomethane	124-48-1	0	ND		0.327	1.00
Chloroethane	75-00-3	0	ND		0.453	5.00
Chloroform	67-66-3	0	ND		0.324	5.00
Chloromethane	74-87-3	0	ND		0.276	2.50
Cyclohexane	110-82-7	0	ND		0.390	1.00
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		1.33	5.00
1,2-Dibromoethane	106-93-4	0	ND		0.381	1.00
1,2-Dichlorobenzene —	95-50-1	8.36	2.80		0.349	1.00
1,3-Dichlorobenzene	541-73-1	0	ND		0.220	1.00
1,4-Dichlorobenzene	106-46-7	0	ND		0.274	1.00
Dichlorodifluoromethane	75-71-8	1.67	ND	J0	0.551	5.00
1,1-Dichloroethane	75-34-3	3.43	ND		0.259	1.00
1,2-Dichloroethane	107-06-2	0	ND		0.361	1.00
1,1-Dichloroethene	75-35-4	0	ND		0.398	1.00
cis-1,2-Dichloroethene	156-59-2	3.72	ND		0.260	1.00
trans-1,2-Dichloroethene	156-60-5	0	ND		0.396	1.00
1,2-Dichloropropane	78-87-5	0	ND		0.306	1.00
cis-1,3-Dichloropropene	10061-01-5	0	ND		0.418	1.00
trans-1,3-Dichloropropene	10061-02-6	0	ND		0.419	1.00
Ethylbenzene	100-41-4	0	ND		0.384	1.00
2-Hexanone	591-78-6	0	ND		3.82	10.0
Isopropylbenzene	98-82-8	0	ND		0.326	1.00
2-Butanone (MEK)	78-93-3	0	ND		3.93	10.0
Methyl Acetate	79-20-9	0	ND		4.30	20.0
Methyl Cyclohexane	108-87-2	0	ND		0.380	1.00
Methylene Chloride	75-09-2	0	ND		1.00	5.00
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		2.14	10.0
Methyl tert-butyl ether —	1634-04-4	3.13	1.35		0.367	1.00
Naphthalene	91-20-3	0	ND		1.00	5.00
Styrene	100-42-5	0	ND		0.307	1.00
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		0.130	1.00
Tetrachloroethene	127-18-4	0	ND		0.372	1.00
Toluene	108-88-3	0	ND		0.412	1.00
1,2,3-Trichlorobenzene	87-61-6	0	ND		0.230	1.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

ESC Sample ID:	L917097-01	**SDG:**	L917097
Client Sample ID:	MW-3R	**Collected Date/Time:**	06/16/17 17:25
Lab File ID:	0625_09	**Received Date/Time:**	06/20/17 08:45
Instrument ID:	VOCMS6	**Preparation Date/Time:**	06/25/17 18:27
Analytical Batch:	WG992821	**Analysis Date/Time:**	06/25/17 18:27
Dilution Factor:	1	**Prep Method:**	8260C
Analytical Method:	8260C	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ug/l		*ug/l*	*ug/l*
1,2,4-Trichlorobenzene	120-82-1	0	ND		0.355	1.00
1,1,1-Trichloroethane	71-55-6	0	ND		0.319	1.00
1,1,2-Trichloroethane	79-00-5	0	ND		0.383	1.00
Trichloroethene	79-01-6	0	1.0 ~~ND~~ UJ		0.398	1.00
Trichlorofluoromethane	75-69-4	0	ND		1.20	5.00
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		0.303	1.00
Vinyl chloride	75-01-4	0	ND		0.259	1.00
o-Xylene	95-47-6	0	ND		0.341	1.00
m&p-Xylenes	1330-20-7	0	ND		0.719	2.00
n-Butylbenzene	104-51-8	0	ND		0.361	1.00
sec-Butylbenzene	135-98-8	0	ND		0.365	1.00
tert-Butylbenzene	98-06-6	0	ND		0.399	1.00
1,2,4-Trimethylbenzene	95-63-6	0	ND		0.373	1.00
1,3,5-Trimethylbenzene	108-67-8	0	ND		0.387	1.00
n-Propylbenzene	103-65-1	0	ND		0.349	1.00
p-Isopropyltoluene	99-87-6	0	ND		0.350	1.00

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MW-7

ESC Sample ID:	L917097-02	**SDG:**	L917097
Client Sample ID:	MW-7	**Collected Date/Time:**	06/16/17 14:00
Lab File ID:	0625_10	**Received Date/Time:**	06/20/17 08:45
Instrument ID:	VOCMS6	**Preparation Date/Time:**	06/25/17 18:45
Analytical Batch:	WG992821	**Analysis Date/Time:**	06/25/17 18:45
Dilution Factor:	10	**Prep Method:**	8260C
Analytical Method:	8260C	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	_____
Total Solids (%):	_____	**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ug/l		*ug/l*	*ug/l*
Acetone	67-64-1	0	ND		100	500
Benzene	71-43-2	4.19	675		3.31	10.0
Bromochloromethane	74-97-5	0	ND		5.20	10.0
Bromodichloromethane	75-27-4	0	ND		3.80	10.0
Bromoform	75-25-2	0	ND		4.69	10.0
Bromomethane	74-83-9	0	50 ~~ND~~	UJ	8.66	50.0
Carbon disulfide	75-15-0	0	ND		2.75	10.0
Carbon tetrachloride	56-23-5	0	ND		3.79	10.0
Chlorobenzene	108-90-7	0	ND		3.48	10.0
Chlorodibromomethane	124-48-1	0	ND		3.27	10.0
Chloroethane	75-00-3	0	ND		4.53	50.0
Chloroform	67-66-3	0	ND		3.24	50.0
Chloromethane	74-87-3	0	ND		2.76	25.0
Cyclohexane	110-82-7	3.85	79.5		3.90	10.0
1,2-Dibromo-3-Chloropropane	96-12-8	0	ND		13.3	50.0
1,2-Dibromoethane	106-93-4	0	ND		3.81	10.0
1,2-Dichlorobenzene	95-50-1	0	ND		3.49	10.0
1,3-Dichlorobenzene	541-73-1	0	ND		2.20	10.0
1,4-Dichlorobenzene	106-46-7	0	ND		2.74	10.0
Dichlorodifluoromethane	75-71-8	0	ND		5.51	50.0
1,1-Dichloroethane	75-34-3	0	ND		2.59	10.0
1,2-Dichloroethane	107-06-2	0	ND		3.61	10.0
1,1-Dichloroethene	75-35-4	0	ND		3.98	10.0
cis-1,2-Dichloroethene	156-59-2	0	ND		2.60	10.0
trans-1,2-Dichloroethene	156-60-5	0	ND		3.96	10.0
1,2-Dichloropropane	78-87-5	0	ND		3.06	10.0
cis-1,3-Dichloropropene	10061-01-5	0	ND		4.18	10.0
trans-1,3-Dichloropropene	10061-02-6	0	ND		4.19	10.0
Ethylbenzene	100-41-4	6.34	332		3.84	10.0
2-Hexanone	591-78-6	0	ND		38.2	100
Isopropylbenzene	98-82-8	6.96	18.3		3.26	10.0
2-Butanone (MEK)	78-93-3	0	ND		39.3	100
Methyl Acetate	79-20-9	0	ND		43.0	200
Methyl Cyclohexane	108-87-2	4.52	44.8	U	3.80	10.0
Methylene Chloride	75-09-2	0	ND		10.0	50.0
4-Methyl-2-pentanone (MIBK)	108-10-1	0	ND		21.4	100
Methyl tert-butyl ether	1634-04-4	0	ND		3.67	10.0
Naphthalene	91-20-3	9.81	642		10.0	50.0
Styrene	100-42-5	0	ND		3.07	10.0
1,1,2,2-Tetrachloroethane	79-34-5	0	ND		1.30	10.0
Tetrachloroethene	127-18-4	0	ND		3.72	10.0
Toluene	108-88-3	5.36	67.6		4.12	10.0
1,2,3-Trichlorobenzene	87-61-6	0	ND		2.30	10.0

SAMPLE RESULT SUMMARY
ORGANIC ANALYSIS DATA SHEET

SAMPLE NO.:
MW-7

ESC Sample ID:	L917097-02	**SDG:**	L917097
Client Sample ID:	MW-7	**Collected Date/Time:**	06/16/17 14:00
Lab File ID:	0625_10	**Received Date/Time:**	06/20/17 08:45
Instrument ID:	VOCMS6	**Preparation Date/Time:**	06/25/17 18:45
Analytical Batch:	WG992821	**Analysis Date/Time:**	06/25/17 18:45
Dilution Factor:	10	**Prep Method:**	8260C
Analytical Method:	8260C	**Sample Vol Used:**	5 mL
Matrix:	GW	**Initial Wt/Vol:**	
Total Solids (%):		**Final Wt/Vol:**	5 mL

Analyte	CAS	RT	Result	Qualifier	MDL	RDL
			ug/l		*ug/l*	*ug/l*
1,2,4-Trichlorobenzene	120-82-1	0	ND		3.55	10.0
1,1,1-Trichloroethane	71-55-6	0	ND		3.19	10.0
1,1,2-Trichloroethane	79-00-5	0	ND		3.83	10.0
Trichloroethene	79-01-6	0	10 ~~ND~~ UJ		3.98	10.0
Trichlorofluoromethane	75-69-4	0	ND		12.0	50.0
1,1,2-Trichlorotrifluoroethane	76-13-1	0	ND		3.03	10.0
Vinyl chloride	75-01-4	0	ND		2.59	10.0
o-Xylene	95-47-6	6.74	319		3.41	10.0
m&p-Xylenes	1330-20-7	6.44	3610		7.19	20.0
n-Butylbenzene	104-51-8	8.21	ND		3.61	10.0
sec-Butylbenzene	135-98-8	7.78	ND		3.65	10.0
tert-Butylbenzene	98-06-6	0	ND		3.99	10.0
1,2,4-Trimethylbenzene	95-63-6	7.69	1750		3.73	10.0
1,3,5-Trimethylbenzene	108-67-8	7.39	290		3.87	10.0
n-Propylbenzene	103-65-1	7.26	22.0		3.49	10.0
p-Isopropyltoluene	99-87-6	7.88	ND		3.50	10.0

2A-OR

SURROGATE RECOVERY

Analytical Method: 8260C
Matrix: GW
SDG: L917097

Sample ID	ESC Sample ID	Instrument	File ID	DMC-1 % Rec.	DMC-2 % Rec.	DMC-3 % Rec.	DMC-4 % Rec.	TOT Out
MW-3R	L917097-01	VOCMS6	0625_09	107	95.3	98.7	98.2	0
MW-7	L917097-02	VOCMS6	0625_10	104	96.3	100	98.5	0
BLANK	R3228636-3	VOCMS6	0625_05	104	97.9	100	99.0	0
LCS	R3228636-1	VOCMS6	0625_02a	104	97.3	98.3	100	0
LCSD	R3228636-2	VOCMS6	0625_03	103	96.2	99.2	99.5	0

Parm Abbreviation	Parameter	QC LIMITS
DMC-1	Toluene-d8	80.0 - 120
DMC-2	Dibromofluoromethane	76.0 - 123
DMC-3	a,a,a-Trifluorotoluene	80.0 - 120
DMC-4	4-Bromofluorobenzene	80.0 - 120

*: Value outside the established quality control limits.
D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

3B-OR

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L917097-01,02

SAMPLE NO.:
R3228636-1
R3228636-2

LCS Sample / File ID:	R3228636-1 / 0625_02a	**SDG:**	L917097
LCSD Sample / File ID:	R3228636-2 / 0625_03	**Analytical Batch:**	WG992821
Instrument ID:	VOCMS6	**Dilution Factor:**	1
Analytical Method:	8260C	**Matrix:**	GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ug/l	ug/l	ug/l	%	%	%	%	%
Acetone	125	112	109	89.4	87.3	10.0 - 160	2.27	23
Benzene	25.0	22.7	22.5	90.6	89.9	69.0 - 123	0.840	20
Bromochloromethane	25.0	24.9	24.8	99.4	99.1	76.0 - 122	0.310	20
Bromodichloromethane	25.0	22.1	22.0	88.4	88.2	76.0 - 120	0.190	20
Bromoform	25.0	23.2	24.0	93.0	96.0	67.0 - 132	3.24	20
Bromomethane	25.0	31.8	32.3	127	129	18.0 - 160	1.65	20
n-Butylbenzene	25.0	23.8	24.3	95.1	97.0	72.0 - 126	1.97	20
sec-Butylbenzene	25.0	23.5	24.0	93.9	96.1	74.0 - 121	2.31	20
Carbon disulfide	25.0	20.6	20.1	82.4	80.5	55.0 - 127	2.37	20
tert-Butylbenzene	25.0	23.6	23.8	94.2	95.2	75.0 - 122	1.06	20
Carbon tetrachloride	25.0	23.2	22.9	92.8	91.6	63.0 - 122	1.35	20
Chlorobenzene	25.0	24.5	24.4	98.0	97.4	79.0 - 121	0.640	20
Chlorodibromomethane	25.0	23.7	24.1	94.9	96.5	75.0 - 125	1.61	20
Chloroethane	25.0	25.8	25.9	103	104	47.0 - 152	0.630	20
Chloroform	25.0	21.9	21.6	87.8	86.4	72.0 - 121	1.55	20
Cyclohexane	25.0	23.3	22.8	93.4	91.3	70.0 - 130	2.26	20
Chloromethane	25.0	24.5	24.4	98.0	97.5	48.0 - 139	0.560	20
1,2-Dibromo-3-Chloropropane	25.0	23.2	24.2	92.9	96.7	64.0 - 127	4.05	20
1,2-Dibromoethane	25.0	24.5	24.4	97.9	97.7	77.0 - 123	0.160	20
1,2-Dichlorobenzene	25.0	23.4	24.0	93.4	96.0	80.0 - 120	2.72	20
1,3-Dichlorobenzene	25.0	23.6	24.1	94.4	96.5	72.0 - 123	2.25	20
1,4-Dichlorobenzene	25.0	23.2	23.3	92.7	93.1	77.0 - 120	0.500	20
Dichlorodifluoromethane	25.0	31.3	30.1	125	121	49.0 - 155	3.63	20
1,1-Dichloroethane	25.0	23.1	22.9	92.3	91.7	70.0 - 126	0.740	20
1,2-Dichloroethane	25.0	23.7	23.3	94.8	93.1	67.0 - 126	1.75	20
1,1-Dichloroethene	25.0	23.1	22.9	92.4	91.8	64.0 - 129	0.650	20
cis-1,2-Dichloroethene	25.0	22.7	22.2	90.7	88.6	73.0 - 120	2.28	20
trans-1,2-Dichloroethene	25.0	22.2	21.8	88.7	87.2	71.0 - 121	1.71	20
1,2-Dichloropropane	25.0	23.2	23.0	92.6	91.9	75.0 - 125	0.740	20
cis-1,3-Dichloropropene	25.0	24.1	24.0	96.5	95.9	79.0 - 123	0.580	20
trans-1,3-Dichloropropene	25.0	25.7	25.2	103	101	74.0 - 127	1.98	20
Ethylbenzene	25.0	24.6	24.5	98.5	97.8	77.0 - 120	0.700	20
2-Hexanone	125	119	120	95.5	95.7	58.0 - 147	0.200	20
Isopropylbenzene	25.0	23.1	23.6	92.5	94.2	75.0 - 120	1.84	20
p-Isopropyltoluene	25.0	23.8	24.5	95.4	98.0	74.0 - 126	2.77	20
Methyl Acetate	125	113	114	90.6	91.6	70.0 - 130	1.11	20
Methyl Cyclohexane	25.0	21.1	20.7	84.5	82.7	70.0 - 130	2.15	20
2-Butanone (MEK)	125	109	109	87.3	87.4	37.0 - 158	0.0700	20
Methylene Chloride	25.0	21.6	21.7	86.5	86.6	66.0 - 121	0.190	20
4-Methyl-2-pentanone (MIBK)	125	117	119	93.7	95.2	59.0 - 143	1.54	20
Methyl tert-butyl ether	25.0	22.6	21.9	90.4	87.7	64.0 - 123	3.10	20
Naphthalene	25.0	22.8	24.0	91.1	95.8	62.0 - 128	5.03	20
n-Propylbenzene	25.0	24.0	24.3	95.8	97.2	79.0 - 120	1.49	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABORATORY CONTROL SAMPLE
LABORATORY CONTROL SAMPLE DUPLICATE
RECOVERY

L917097-01,02

LCS Sample / File ID:	R3228636-1 / 0625_02a	**SDG:**	L917097
LCSD Sample / File ID:	R3228636-2 / 0625_03	**Analytical Batch:**	WG992821
Instrument ID:	VOCMS6	**Dilution Factor:**	1
Analytical Method:	8260C	**Matrix:**	GW

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	RPD	RPD Limit
	ug/l	*ug/l*	*ug/l*	%	%	%	%	%
Styrene	25.0	24.0	24.1	95.9	96.3	78.0 - 124	0.470	20
1,1,2,2-Tetrachloroethane	25.0	22.3	22.5	89.3	89.8	71.0 - 122	0.570	20
Tetrachloroethene	25.0	25.2	24.5	101	98.2	70.0 - 127	2.51	20
Toluene	25.0	23.2	22.9	92.7	91.4	77.0 - 120	1.32	20
1,1,2-Trichlorotrifluoroethane	25.0	23.6	22.8	94.6	91.1	61.0 - 136	3.79	20
1,2,3-Trichlorobenzene	25.0	23.0	23.8	92.0	95.2	61.0 - 133	3.44	20
1,2,4-Trichlorobenzene	25.0	22.7	24.3	90.9	97.2	69.0 - 129	6.67	20
1,1,1-Trichloroethane	25.0	22.8	22.7	91.3	90.6	68.0 - 122	0.740	20
1,1,2-Trichloroethane	25.0	23.4	22.6	93.5	90.5	78.0 - 120	3.25	20
Trichloroethene	25.0	24.9	25.0	99.6	99.8	78.0 - 120	0.230	20
Trichlorofluoromethane	25.0	24.5	23.8	98.1	95.0	56.0 - 137	3.16	20
1,2,4-Trimethylbenzene	25.0	22.8	23.4	91.4	93.4	75.0 - 120	2.22	20
1,3,5-Trimethylbenzene	25.0	23.4	23.6	93.7	94.4	75.0 - 120	0.660	20
Vinyl chloride	25.0	28.8	27.9	115	112	64.0 - 133	3.03	20
o-Xylene	25.0	23.8	23.8	95.0	95.0	78.0 - 120	0.0100	20
m&p-Xylenes	50.0	48.9	48.6	97.7	97.1	77.0 - 120	0.600	20

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

ESC Sample ID:	R3228636-3	**SDG:**	L917097
Lab File ID:	0625_05	**Preparation Date/Time:**	06/25/17 16:58
Instrument ID:	VOCMS6	**Analysis Date/Time:**	06/25/17 16:58
Analytical Batch:	WG992821	**Dilution Factor:**	1
Analytical Method:	8260C	**Matrix:**	GW

Sample ID	ESC Sample ID	Instrument	File ID	Analysis *date/time*
LC5	R3228636-1	VOCMS6	0625_02a	06/25/17 16:04
LCSD	R3228636-2	VOCMS6	0625_03	06/25/17 16:22
MW-3R	L917097-01	VOCMS6	0625_09	06/25/17 18:27
MW-7	L917097-02	VOCMS6	0625_10	06/25/17 18:45

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID: 0619_01T
Instrument ID: VOCMS6
Analysis Date/Time: 06/19/17 18:42

SDG: L917097
Analytical Method: 8260C

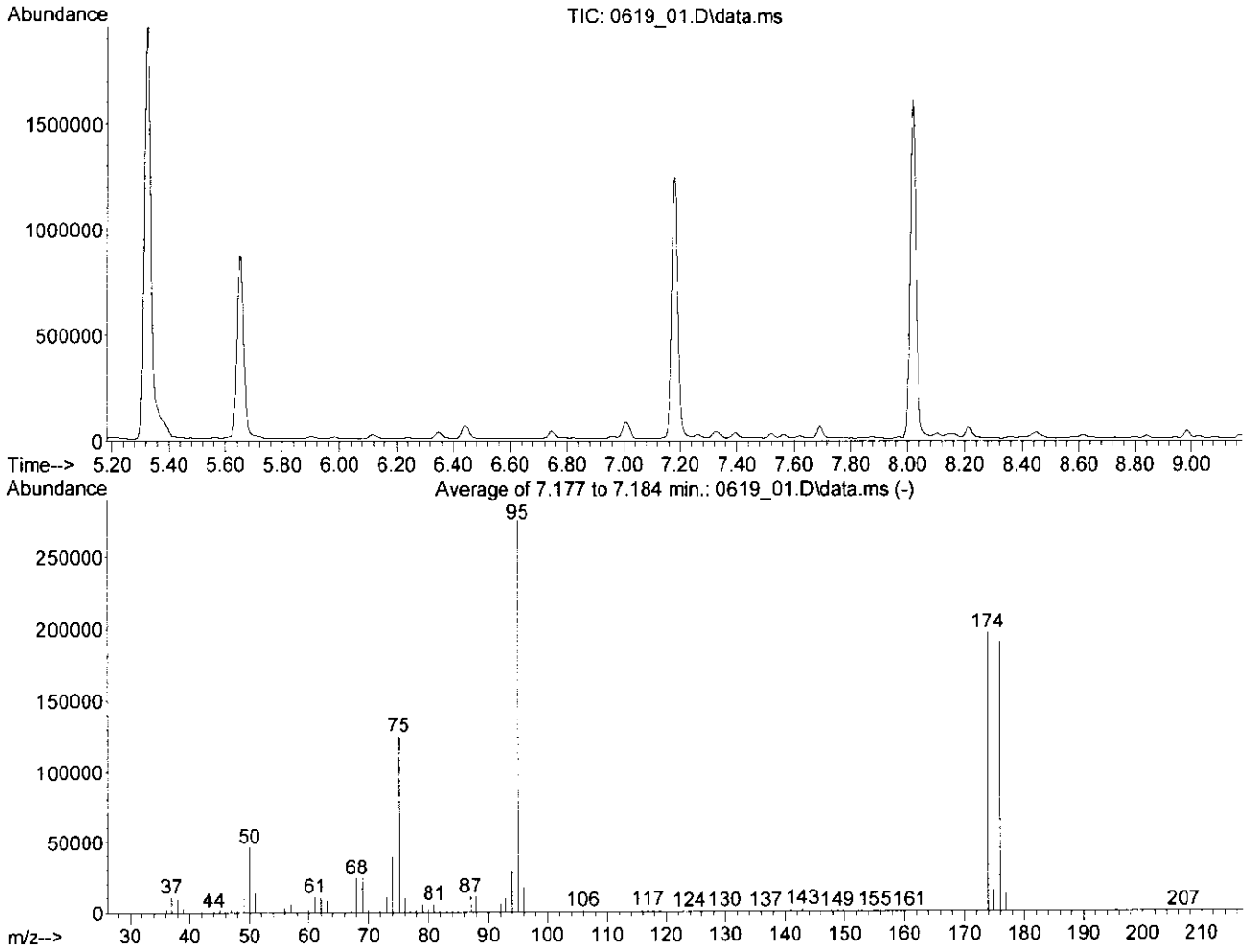
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
173	174	0	2	0 ✓
174	95	50	100	71 ✓
175	174	5	9	8 ✓
176	174	95	101	97 ✓
177	176	5	9	6 ✓
50	95	15	40	17 ✓
75	95	30	60	45 ✓
95	95	100	100	100 ✓
96	95	5	9	6 ✓

Sample ID	ESC Sample ID	File ID	Analysis date/time
STD-0.25	0.25	0619_03	06/19/17 19:17
STD-0.5	0.5	0619_04	06/19/17 19:36
STD-1	1	0619_05	06/19/17 19:54
STD-2	2	0619_06	06/19/17 20:12
STD-5.0	5.0	0619_07	06/19/17 20:30
STD-10	10	0619_08	06/19/17 20:49
STD-25	25	0619_09	06/19/17 21:07
STD-40	40	0619_10	06/19/17 21:25
STD-75	75	0619_11	06/19/17 21:43
STD-100	100	0619_12	06/19/17 22:01
STD-200	200	0619_13	06/19/17 22:19 ✓

Data Path : C:\msdchem\1\data\061917\
Data File : 0619 01.D
Acq On : 19 Jun 2017 6:42 pm
Operator : 605
Sample : INSTBLK
Misc : water IS/SURR 17F11411
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V806F27Q.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS06
Last Update : Sun Jun 25 12:37:07 2017



AutoFind: Scans 2204, 2205, 2206; Background Corrected with Scan 2188

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	46187	PASS
75	95	30	60	45.3	125189	PASS
95	95	100	100	100.0	276416	PASS
96	95	5	9	6.3	17386	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	71.3	197120	PASS
175	174	5	9	7.5	14840	PASS
176	174	95	101	96.7	190677	PASS
177	176	5	9	6.3	11919	PASS

5A-OR

GC/MS INSTRUMENT PERFORMANCE CHECK

Lab File ID:	0625_01T-3	**SDG:**	L917097
Instrument ID:	VOCMS6	**Analytical Method:**	8260C
Analysis Date/Time:	06/25/17 15:46		

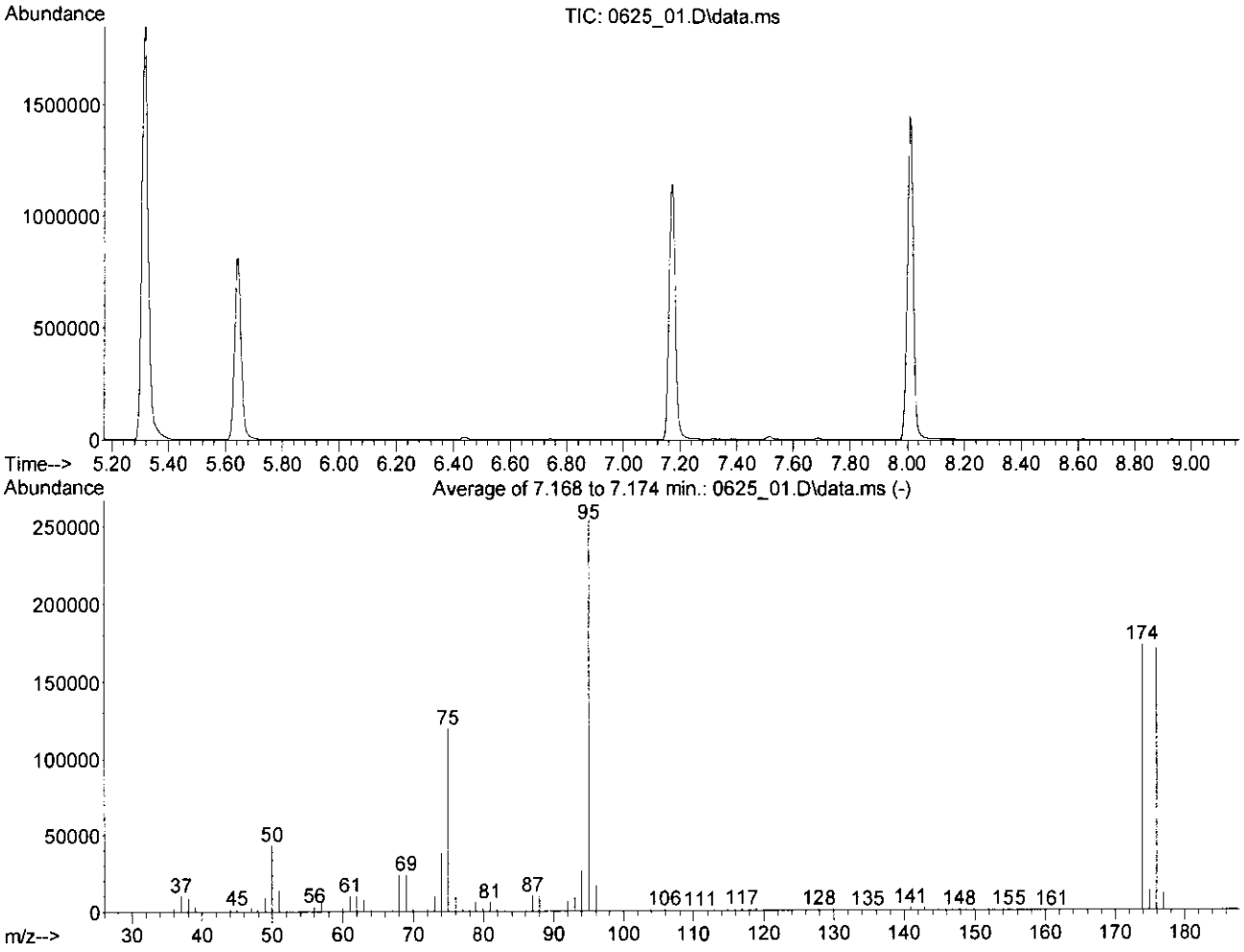
Target Mass (m/e)	Relative Mass	Low Limit	High Limit	% Relative Abundance
173	174	0	2	0
174	95	50	100	68
175	174	5	9	7
176	174	95	101	98
177	176	5	9	7
50	95	15	40	17
75	95	30	60	47
95	95	100	100	100
96	95	5	9	6

Sample ID	ESC Sample ID	File ID	Analysis date/time
LCS	R3228636-1	0625_02a	06/25/17 16:04
LCSD	R3228636-2	0625_03	06/25/17 16:22
BLANK	R3228636-3	0625_05	06/25/17 16:58
MW-3R	L917097-01	0625_09	06/25/17 18:27
MW-7	L917097-02	0625_10	06/25/17 18:45

Data Path : C:\msdchem\1\data\062517\
Data File : 0625 01.D
Acq On : 25 Jun 2017 3:46 pm
Operator : 605
Sample : INSTBLK
Misc : water
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINTLRH.P

Method : C:\msdchem\1\methods\V806F24Q.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS06
Last Update : Sun Jun 25 12:37:07 2017



AutoFind: Scans 2201, 2202, 2203; Background Corrected with Scan 2190

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	43288	PASS
75	95	30	60	47.0	119851	PASS
95	95	100	100	100.0	254891	PASS
96	95	5	9	6.5	16509	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.2	173845	PASS
175	174	5	9	7.4	12863	PASS
176	174	95	101	98.4	171115	PASS
177	176	5	9	6.6	11251	PASS

8A-OR

INTERNAL STANDARD AND RETENTION TIME

SDG:	L917097	**Analytical Method:**	8260C
Instrument ID:	VOCMS6	**Calibration Start Date:**	06/19/17 19:17
Std File:	0625_02-3	**Calibration End Date:**	06/25/17 11:03
		Std Analysis Date:	06/25/17 16:04

Sample ID	File ID	1,4-DCB		DFB		BCP		PFB	
		Response	*RT*	*Response*	*RT*	*Response*	*RT*	*Response*	*RT*
STANDARD		341782	8.01	830371	4.51	140042	5.65	440709	4.19
UPPER LIMIT		684000		1660000		280000		881000	
LOWER LIMIT		171000		415000		70000		220000	
LCS R3228636-1 WG992821 1x	0625_02a	341782 ✓	8.01	830371 ✓	4.51	140042 ✓	5.65	440709 ✓	4.19
LCSD R3228636-2 WG992821 1x	0625_03	336927	8.02	814656	4.51	139085	5.65	438643	4.19
BLANK R3228636-3 WG992821 1x	0625_05	316954	8.02	777602	4.51	131421	5.66	422176	4.19
L917097-01 WG992821 1x	0625_09	302375	8.02	749680	4.51	122206	5.65	404954	4.19
L917097-02 WG992821 10x	0625_10	322040	8.02	760148	4.52	127812	5.66	410786	4.19

1,4-DCB - 8260-1,4-DICHLOROBENZENE-D4 DFB - 8260-1,4-DIFLUOROBENZENE
BCP - 8260-2-BROMO-1-CHLOROPROPANE PFB - 8260-PENTAFLUOROBENZENE

*: Value outside the established quality control limits.

D: Surrogate recovery cannot be used for control limit evaluation due to dilution.

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX C

Site Inspection Form and Photograph

LABELLA Associates, P.C.

300 State Street
Rochester, New York 14614
Phone: (585) 454-6110
Fax: (585) 454-3066

SITE-WIDE INSPECTION FORM

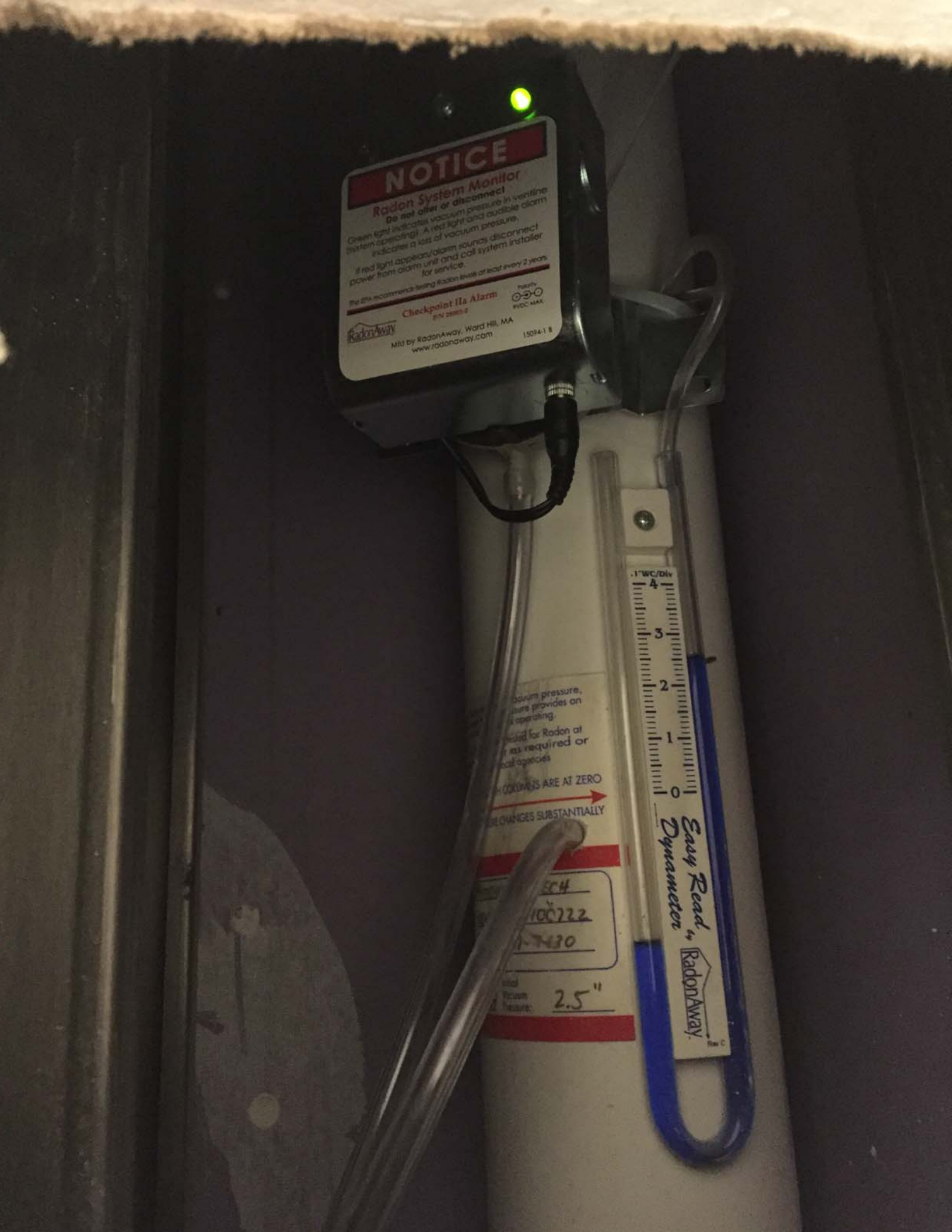
Project Name: NYSDEC BCP Site No. C828134
Location: 3865 & 3875 West Henrietta Road, Rochester, New York
Project No.: 209395
Inspected By: K R Miller
Date of Inspection: 6/4/2017
Weather Conditions: sunny +/- 75°F

INSPECTION FINDINGS

3865 Building SSDS VENT FAN & GENERAL LOCATION	FAN OPERATING PROPERLY (YES/NO) and MANOMETER READING (H_20"):	PIPING and LABELLING IN GOOD CONDITION (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
Women's Restroom, behind wall panel	2.5" H_2O	YES	NONE

3875 Building SSDS VENT FAN & GENERAL LOCATION	FAN OPERATING PROPERLY (YES/NO) and MANOMETER READING (H_20"):	PIPING and LABELLING IN GOOD CONDITION (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
customer reception	-0.612 | -0.060	YES	NONE
service area	-0.171 | -0.007	YES	NONE

GENERAL SITE CONDITIONS	CURRENT USE OF SITE (COMMERCIAL/ RESIDENTIAL/ETC.)	SITE RECORDS UP TO DATE (YES/NO)	COMMENTS AND/OR ACTIONS TAKEN
Similar to previous years.	commercial auto service and sales	YES	Small demolition/construction work area on west end of 3875 Bldg.


NOTICE
Radon System Monitor
Do not alter or disconnect
Green light indicates vacuum pressure in ventline (system operating). A red light and audible alarm indicates a loss of vacuum pressure.
If red light appears/alarm sounds disconnect power from alarm unit and call system installer for service.
The EPA recommends testing Radon levels at least every 2 years.
Checkpoint IIa Alarm
Polarity
9VDC MAX
RadonAway
Mfd by RadonAway, Ward Hill, MA
www.radonaway.com
15094-1 B
.1"WC/Div
4
3
2
1
0
Easy Read Dynameter
RadonAway
Rev C
COLUMNS ARE AT ZERO
CHANGES SUBSTANTIALLY
2.5"

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX D

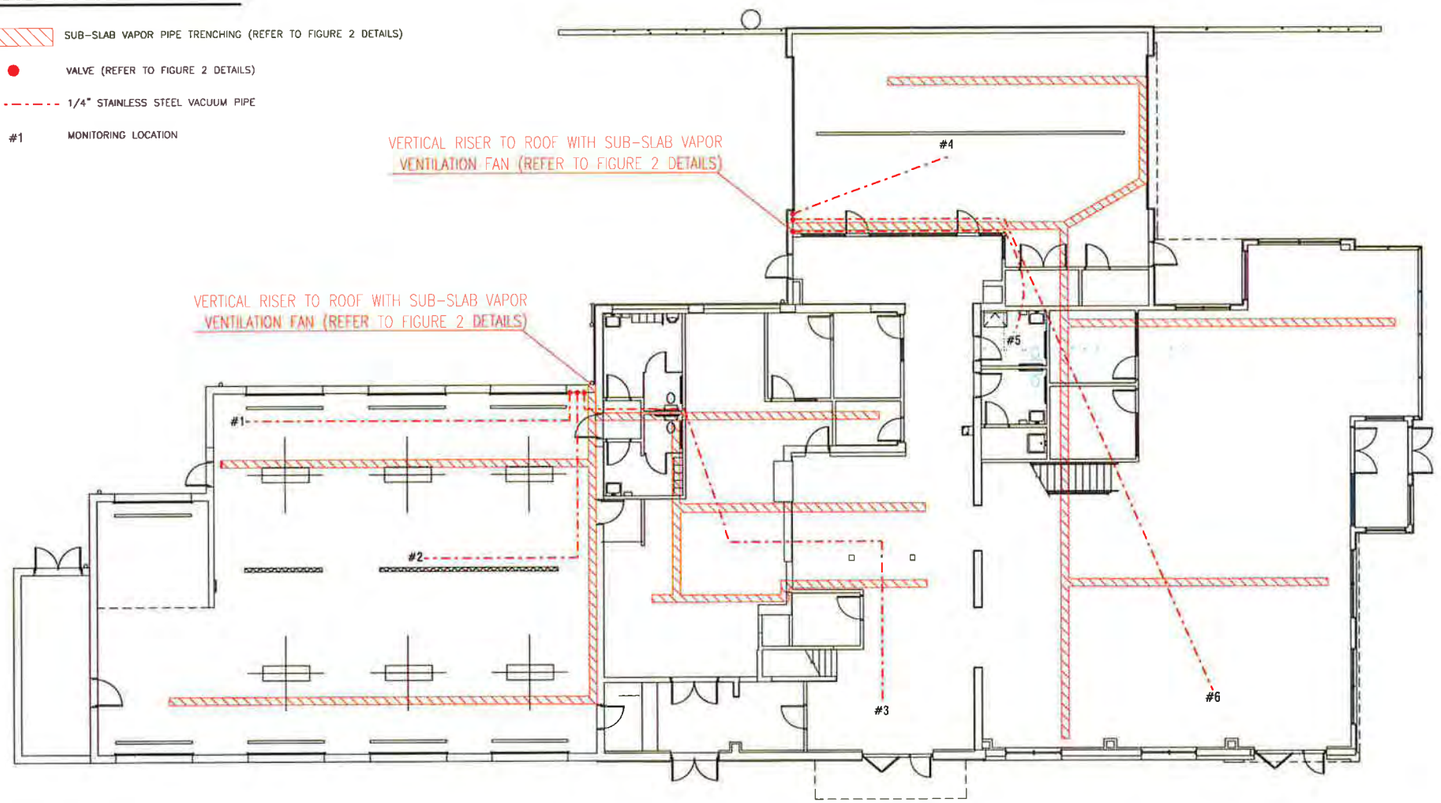
As-Built Drawings of SSDSs at
3865 & 3875 West Henrietta Road Buildings

PROPOSED SUB-SLAB DEPRESSURIZATION SYSTEM (1)
SCALE: 1"=20'

NORTH

SYMBOL LEGEND

- SUB-SLAB VAPOR PIPE TRENCHING (REFER TO FIGURE 2 DETAILS)
- VALVE (REFER TO FIGURE 2 DETAILS)
- 1/4" STAINLESS STEEL VACUUM PIPE
- #1 MONITORING LOCATION



NOTE:
BASE DRAWING ADAPTED FROM TY LIN INTERNATIONAL DRAWING TITLED "SANITARY SEWER PLUMBING PLAN" DATED NOVEMBER 8, 2011.

STATE OF NEW YORK
DANIEL P. NOLL
No. 081996
LICENSED PROFESSIONAL ENGINEER

NO	REVISION	BY	DATE
-	-	-	-

It is a violation of New York Education Law Article 145 Sec.7209, for any person, unless acting under the direction of a licensed architect, professional engineer, or land surveyor, to alter an item in any way. If an item bearing the seal of an architect, professional engineer, or land surveyor is altered, the altering architect, engineer, or land surveyor shall affix to the item his or her seal and the notation "altered by" followed by his or her signature and date of such alteration, and a specific description of the alteration.

LABELLA Associates, P.C.
300 STATE STREET
ROCHESTER, NY 14614
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F: (585) 454-3066
www.labellapc.com

PROJECT/CLIENT
3875 West Henrietta Road
Henrietta, New York
RJ Dorschel Corp.

DRAWING TITLE
AS-BUILT PLAN FOR SUB-SLAB DEPRESSURIZATION SYSTEM

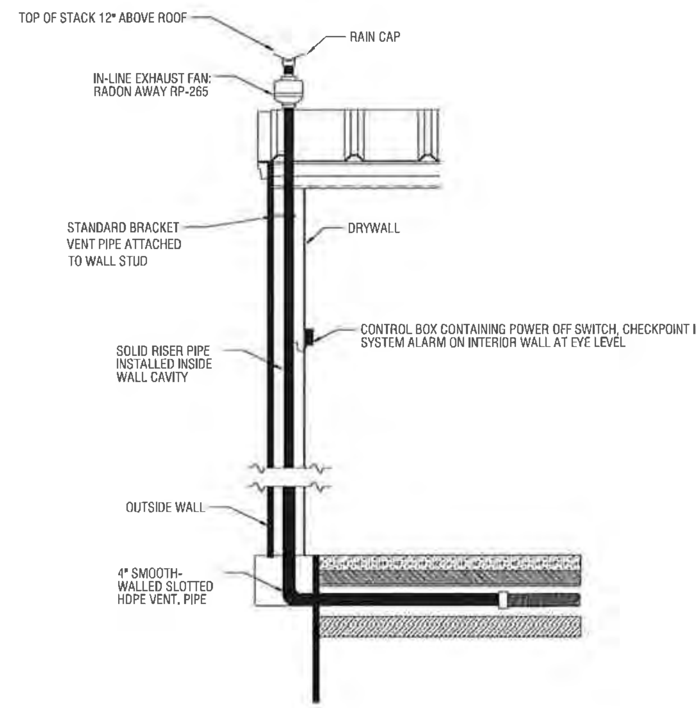
ISSUED FOR:

SCALE:	NO SCALE
DRAWN BY:	HMS/RON
REVIEWED BY:	DPN
REVIEWED BY:	###
DATE:	MAR 2013

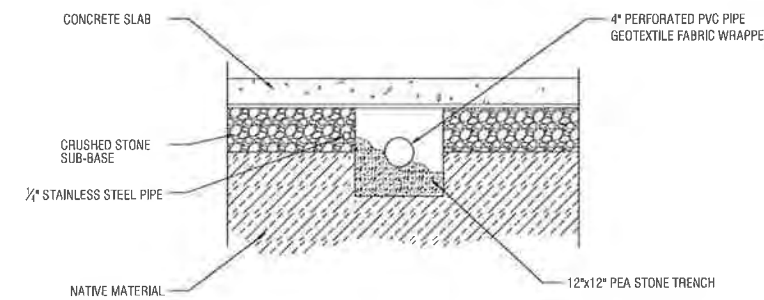
PROJECT/DRAWING NUMBER
209395

FIG 1

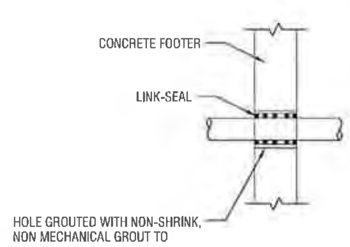
J:\RJ Dorschel Corp\395\Drawings\PRR 2012\FIG.2013.03.07 SSDSplan.dgn



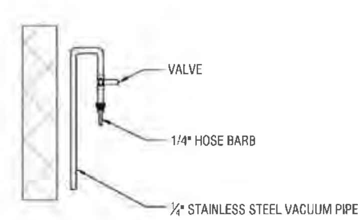
REAR ENDWALL



MATERIAL PROFILE



PROFILE AT PENETRATION



PROFILE AT GAUGE POINT

NOTES:

1. PERFORATED CAP INSTALLED AT EACH VAPOR COLLECTION PIPE TERMINATION.

2 HEADER PIPE SLOPED UP 1/4-INCH PER FOOT FROM CONNECTION WITH VAPOR COLLECTION PIPING

3. ALL SUB-SLAB VAPOR COLLECTION PIPING IS GEOTEXTILE-WRAPPED 4-INCH PERFORATED DUAL-WALLED CORRUGATED EXTERIOR SMOOTH INTERIOR HDPE

4. HEADER PIPING SHOWN IS 4-INCH SCHEDULE 40 PVC

5. PROFILE SEQUENCE MAY VARY BASED ON SPECIFIC LOCATIONS.

6. PEA STONE CONSISTS OF MATERIAL THAT WILL PASS THROUGH A 2-INCH SIEVE AND BE RETAINED BY A 1/4-INCH SIEVE

7. ALL PENETRATIONS AND GAPS SEALED WITH AN ELASTOMERIC JOINT SEALANT

8. RISER PIPING INSIDE WALL CAVITIES TO HAVE PRESSURE GAUGES AND ALARMS MOUNTED ON INTERIOR WALL IN A VISIBLE LOCATION

9. RADONAWAY EASY READ DYNAMETER U-TUBE MANOMETER MONITOR INSTALLED ON VACUUM SIDE OF FAN FOR PRESSURE GAUGE. RADONAWAY CHECKPOINT II AUDIBLE SYSTEM ALARM INSTALLED ON VACUUM SIDE OF FAN FOR ALARM. ALARM INSTALLED ON A SEPARATE CIRCUIT FROM THE FAN.

10 STAINLESS STEEL TUBING OPEN AT THE END WITH FILTER FABRIC OVER THE END AND FIXED WITH TAPE 6-INCHES FROM THE END

STATE OF NEW YORK
DANIEL P. NOLL
LICENSED PROFESSIONAL ENGINEER

LABELLA Associates, P.C.

3875 West Henrietta Road
Henrietta, New York

RJ Dorschel Corp.

SUB-SLAB DEPRESSURIZATION SYSTEM AS-BUILT

NO SCALE

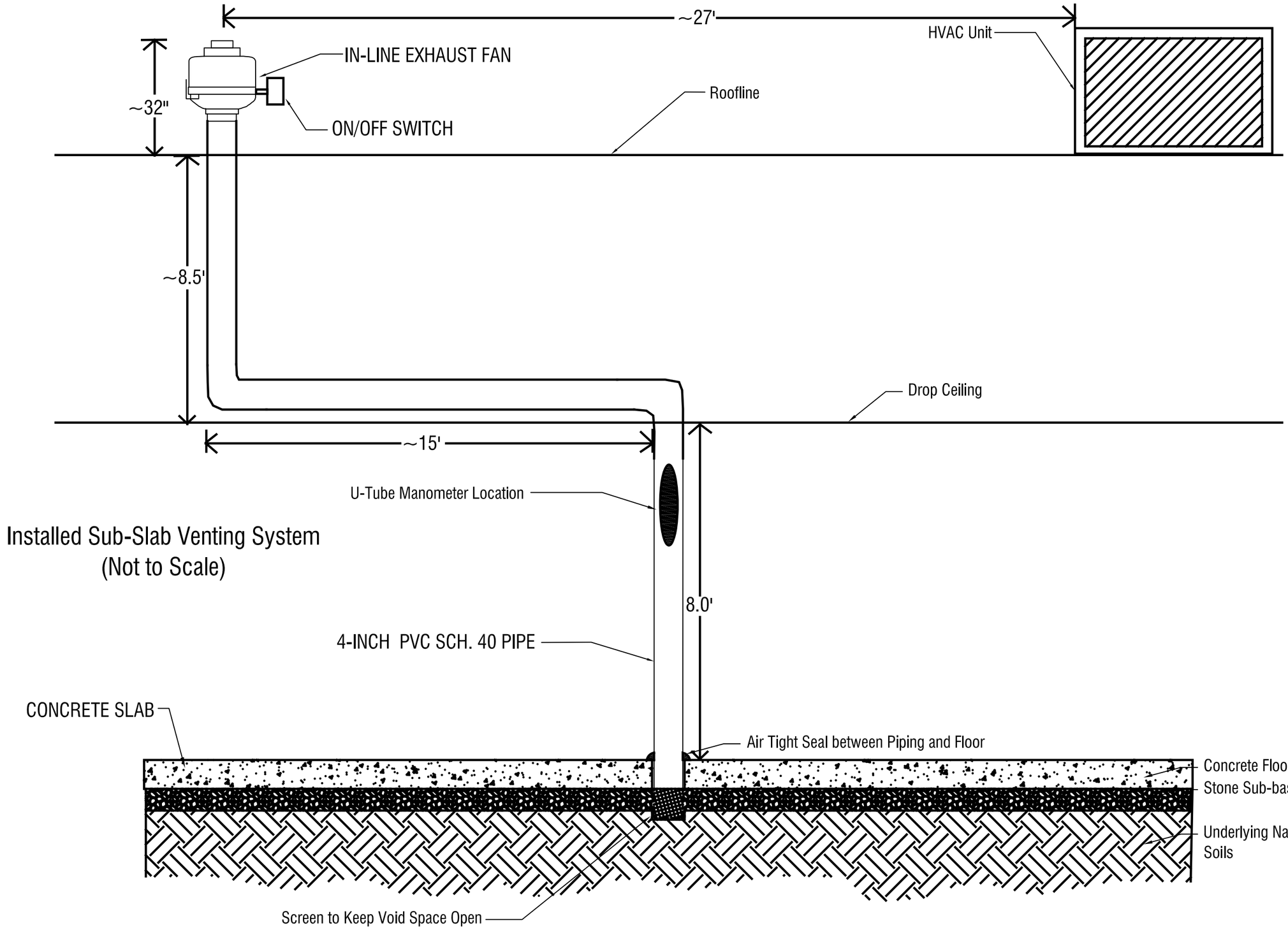
HMS/RCN

DPN

APRIL 2013

209395

FIG 2



Installed Sub-Slab Venting System
(Not to Scale)

LABELLA Associates, P.C.
300 STATE STREET
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P: (585) 454-6110
F: (585) 454-3066
www.labellapc.com

PROJECT/CLIENT
BROWNFIELD CLEANUP PROGRAM
SITE MANAGEMENT PLAN
BCP Site # C828134
3865 WEST HENRIETTA RD
ROCHESTER, NY 14623

DRAWING TITLE
SUBSLAB DEPRESSURIZATION DETAILS

ISSUED FOR
DRAFT

DESIGNED BY: EPD
DRAWN BY: EPD
REVIEWED BY: DPN

AUGUST 2009

PROJECT/DRAWING NUMBER
209395

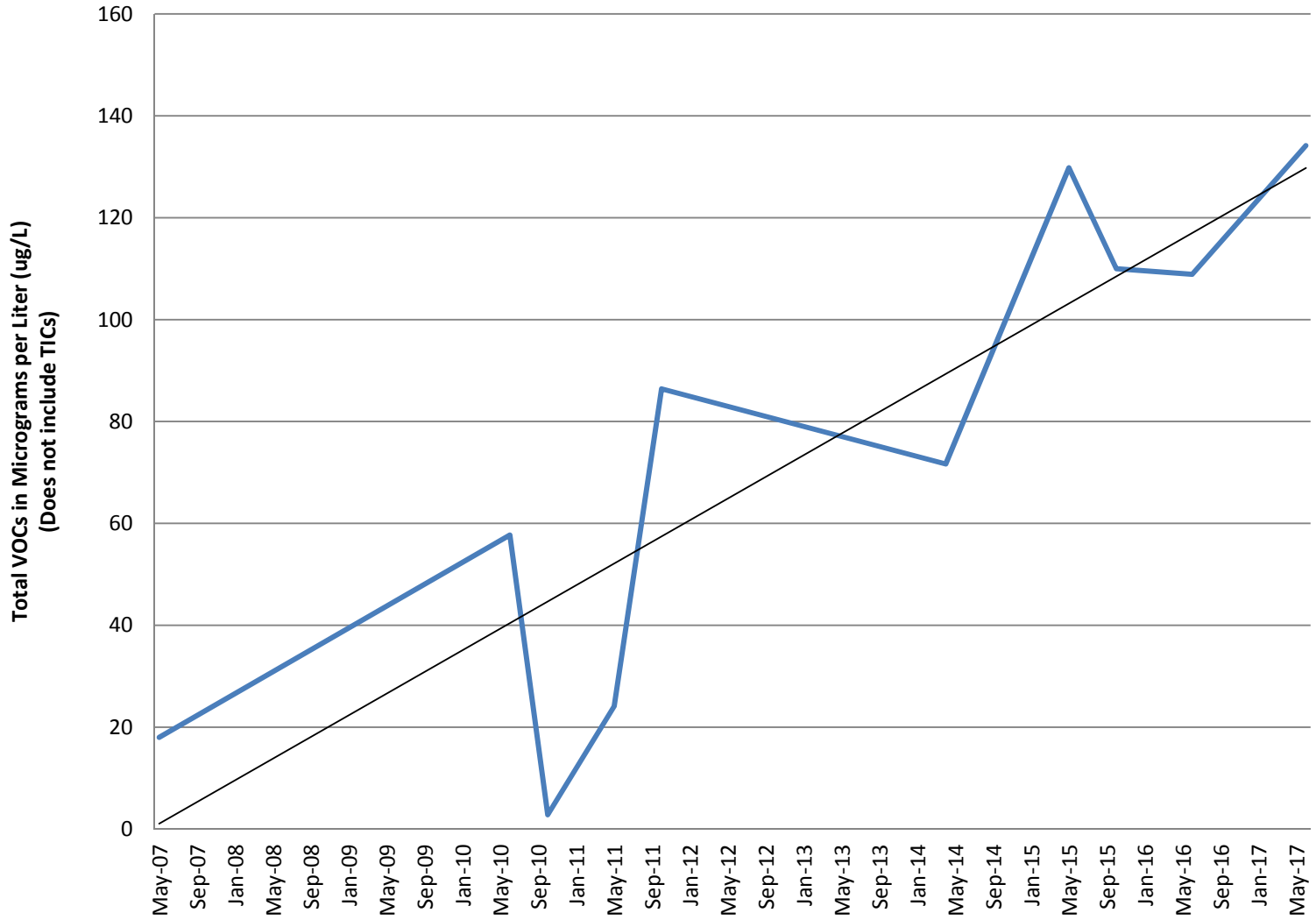
FIGURE 9

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX E

Graphs of Total VOCs Over Time

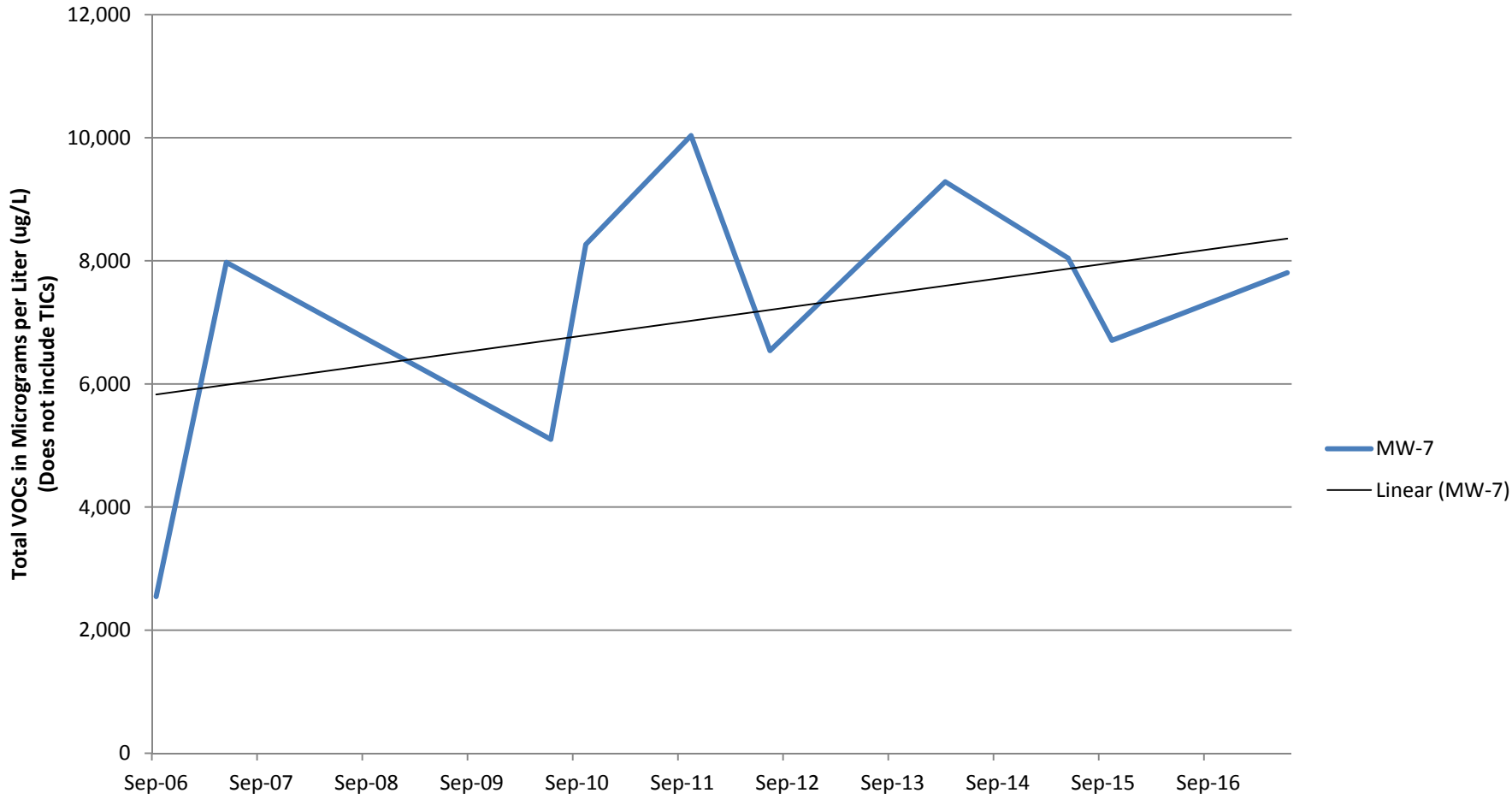
MW-3R



	May-07	Jun-10	Oct-10	May-11	Oct-11	Apr-14	May-15	Oct-15	Jun-16	Jun-17
MW-3R	18	57.7	2.8	24.1	86.4	71.67	129.8	109.98	108.9	134.15

Date

MW-7
[without outlier (May 2011 sample results)]



	Sep-06	May-07	Jun-10	Oct-10	Oct-11	Jul-12	Mar-14	May-15	Oct-15	Jun-16	Jun-17
MW-7	2,547	7,976	5,101	8,267	10,035	6,541	9,286	8,046	6,709	7,143.26	7805.4

Date

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX F

Institutional Controls/Engineering Controls Certification Form

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. **C828134**

Site Name Former Steve Joy's Sunoco

Site Address: 3865 West Henrietta Road Zip Code: 14623
City/Town: Rochester
County: Monroe
Site Acreage: 2.5

Reporting Period: August 06, 2016 to August 06, 2017

	YES	NO
1. Is the information above correct?	☒	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☒	☐

See Addendum for more information.

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

5. Is the site currently undergoing development?	☒	☐

See Addendum for more information.

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Commercial and Industrial	☒	☐
7. Are all ICs/ECs in place and functioning as designed?	☒	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	☒
If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.		
9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	☒	☐
If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.		

SITE NO. C828134 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
161.15-1-20.1	R.J. Dorschel Corp.	Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan O&M Plan IC/EC Plan Ground Water Use Restriction

The property may only be used for commercial or industrial use, provided that the long-term Engineering and Institutional Controls included in this SMP are employed.
• The property may not be used for a higher level of use (e.g., unrestricted, residential,etc.) use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
• All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
• The existing sub-slab depressurization system at the 3865 West Henrietta Road property will be monitored and maintained in accordane with the SMP;
• The existing biocell will be monitored and maintained in accordance with the SMP;
• The use of the groundwater underlying the property is prohibited without treatment restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by NYSDOH;
• Prior to occupancy of any newly constructed buildings at this site a soil vapor intrusion evaluation will be performed in accordance with the State's most recent guidance on evaluation soil vapor intrusion. Alternatively, a SSDS can be designed and installed/started prior to occupancy of any newly constructed building. The SSDS will be designed and installed in accordance with the State's most recent guidance on evaluating soil vaor intrusion and will require approval by NYSDEC and NYSDOH prior to installation;
• Vegetable gardens and farming on the Site are prohibited; and
• The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access the Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

161.19-1-9	R.J. Dorschel Corp.	Ground Water Use Restriction Soil Management Plan Landuse Restriction Monitoring Plan Site Management Plan IC/EC Plan

The property may only be used for commercial or industrial use, provided that the long-term Engineering and Institutional Controls included in this SMP are employed.
• The property may not be used for a higher level of use (e.g., unrestricted, residential,etc.) use without additional remediation and amendment of the Environmental Easement, as approved by the NYSDEC;
• All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;
• The existing biocell will be monitored and maintained in accordance with the SMP;
• The use of the groundwater underlying the property is prohibited without treatment restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by NYSDOH;
• Prior to occupancy of any newly constructed buildings at this site a soil vapor intrusion evaluation will be performed in accordance with the State's most recent guidance on evaluation soil vapor intrusion. Alternatively, a SSDS can be designed and installed/started prior to occupancy of any newly constructed building. The SSDS will be designed and installed in accordance with the State's most recent guidance on evaluating soil vaor intrusion and will require approval by NYSDEC and NYSDOH prior

to installation;
• A SSDS will be designed and installed/started prior to occupancy of the existing 3875 West Henrietta Road building. The SSDS will be designed and installed in accordance with the State's most recent guidance on evaluating soil vaor intrusion and will require approval by NYSDEC and NYSDOH prior to installation;
• Vegetable gardens and farming on the Site are prohibited; and
• The Site owner or remedial party will submit to NYSDEC a written statement that certifies, under penalty of perjury, that: (1) controls employed at the Controlled Property are unchanged from the previous certification or that any changes to the controls were approved by the NYSDEC; and, (2) nothing has occurred that impairs the ability of the controls to protect public health and environment or that constitute a violation or failure to comply with the SMP. NYSDEC retains the right to access the Site at any time in order to evaluate the continued maintenance of any and all controls. This certification shall be submitted annually, or an alternate period of time that NYSDEC may allow and will be made by an expert that the NYSDEC finds acceptable.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
161.15-1-20.1	Vapor Mitigation
161.19-1-9	Vapor Mitigation

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

YES	NO
☒	☐

2. If this site has an IC/EC Plan (or equivalent as required in the Decision Document), for each Institutional or Engineering control listed in Boxes 3 and/or 4, I certify by checking "YES" below that all of the following statements are true:

   (a) the Institutional Control and/or Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
☒	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative

Date

IC CERTIFICATIONS
SITE NO. C828134

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Albert J. Baronas (print name) at 3817 W Henrietta Rd Rochester NY 14623 (print business address),

am certifying as Owner's Representative (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Corp. Sec'ty. RJ Dorschel Corp. — 7.24.17

Signature of Owner, Remedial Party, or Designated Representative Rendering Certification — Date

IC/EC CERTIFICATIONS

Box 7

Qualified Environmental Professional Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I DANIEL P NOLL (print name) at LaBella Associates 300 STATE ST Rochester NY (print business address),

am certifying as a Qualified Environmental Professional for the _____ (Owner or Remedial Party)

STATE OF NEW YORK
DANIEL P. NOLL
No. 081996
LICENSED PROFESSIONAL ENGINEER

Signature of Qualified Environmental Professional, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

8/21/17
Date

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

ADDENDUM

To Enclosure 2
NYSDEC Site Management Plan PRR Notice
August 6, 2016 to August 6, 2017 Reporting Period

ADDENDUM TO PERIODIC REVIEW REPORT; AUGUST 6, 2016 TO AUGUST 6, 2017 REPORTING PERIOD

FROM: Kyle R. Miller, LaBella Associates, DPC

DATE: August 21, 2017

RE: NYSDEC Site No. C828134, Former Steve Joy's Sunoco BCP Site
Town of Henrietta, Monroe County (i.e., the "Site")

This memorandum and the following pages in this Addendum to *Enclosure 2, NYSDEC Site Management Periodic Review Report Notice Institutional and Engineering Controls Certification Form* are intended to provide additional information to the affirmative responses to questions number 4 and 5 in Box 1 of the form.

The owner of the 3875 West Henrietta Road parcel, are proposing to construct a ±500 Square Foot Building Addition to an existing auto service area. A copy of the receipt from the Town of Henrietta regarding the building permit for this project is included as part of this Addendum.

The scope of work for this project includes the partial demolition and reconstruction of the extreme western portion of the existing 3875 West Henrietta Road building. This area of the Site is currently used as an automotive service area and the future use will be the same. It is understood that minor site work (excavation activities) will be completed at the 3875 West Henrietta Road portion of the Site during the demolition and reconstruction of the ±500 Square Foot Building Addition, including the following:

- excavations for new foundations;
- an excavation for a storm drainage tie-in to an existing storm sewer;
- shallow excavations for concrete sidewalks and floor slabs ; and
- a shallow excavation to facilitate the installation of new wheel alignment equipment in the new building addition

A Change of Use Notification Form regarding this partial demolition and reconstruction project was submitted to the NYSDEC Site Control Section in Albany on August 1, 2017. Construction drawings and specifications were also included with the submittal of the Change of Use Notification Form.

A 15-Day Advance Notice of Excavation Activities letter was submitted to the NYSDEC Region 8 Project Manager for this BCP Site on August 11, 2017. A copy of this letter, which includes a copy of the Change of Use Notification Form submittal, is included as part of this Addendum.

Town of Henrietta
Office of Building and Fire Prevention
475 Calkins Road, Henrietta, New York 14467
(585) 359-7060 Office (585) 321-6093 Fax

Receipt

DATE: 07/20/2017

Permit Number: C2017-0083

Invoice Number: 00011617

Tax ID #: 161.19-1-9.1
Property Name/Address:
The Dorschel Group
3875 West Henrietta Rd
Rochester, NY 14623-3703

Permit Type: Com: Addition

Permit Information

Com: Addition	225.00
Professional Services	75.00
Com: Plumbing	109.00
Com: Plan Review	110.00
Com: Inspections	125.00
Com: C of O	150.00

TOTAL PERMIT FEE: 794.00

Payment Type: Check **Check #** 405730

Payor: The Dorschel Group

LABELLA Associates, D.P.C.
Engineering
Architecture
Environmental
Planning

300 State Street, Suite 201 | Rochester, NY 14614 | p 585.454.6110 | f 585.454.3066 | www.labellapc.com

August 11, 2017

Mr. Frank Sowers, P.E.
New York State Department of Environmental Conservation, Region 8
Division of Environmental Remediation
6274 East Avon-Lima Road
Avon, New York 14414

RE: 15-Day Advance Notice of Excavation Activities
±500 Square Foot Building Addition
3875 West Henrietta Road Parcel
BCP Site #C828134
Former Steve Joy's Sunoco
Town of Henrietta, Monroe County
LaBella Project Number 209395

Dear Mr. Sowers,

LaBella Associates, D.P.C. (LaBella) is submitting this letter on behalf of RJ Dorschel Corporation in order to provide notification of the anticipated excavation activities that will be taking place at the Former Steve Joy's Sunoco property located at 3865 and 3875 West Henrietta Road (hereinafter referred to as the "Site"). The Site is New York State (NYS) Brownfield Cleanup Program (BCP) Site #C828134 administered by New York State Department of Environmental Conservation (NYSDEC) and was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index #B8-0719-06-06, Site # C828134.

A Change of Use Notification Form regarding the planned construction of a ±500 Square Foot Building Addition on the 3875 West Henrietta Road portion of the Site was submitted to the NYSDEC Site Control Section. Construction drawings and specifications were also included with the submittal of the Change of Use Notification Form. A copy of this submittal is included as Attachment 1. The owner of the Site would like to proceed with the construction of the ±500 Square Foot Building Addition as soon as possible.

Description of the Work

The scope of work for this project includes the partial demolition and reconstruction of the extreme western portion of the existing 3875 West Henrietta Road building. This area of the Site is currently used as an automotive service area and the future use will be the same. It is understood that minor site work (excavation activities) will be completed at the 3875 West Henrietta Road portion of the Site during the demolition and reconstruction of the ±500 Square Foot Building Addition, including the following:

- excavations for new foundations;
- an excavation for a storm drainage tie-in to an existing storm sewer;
- shallow excavations for concrete sidewalks and floor slabs ; and
- a shallow excavation to facilitate the installation of new wheel alignment equipment in the new building addition.

According to the owner's construction contractor (Spoleta Construction of Rochester, New York), the deepest of the proposed excavations will be four (4) feet deep (for new foundation footers) and overall estimated volumes of materials to be excavated are identified in the following table.

Material Type	Excavated [Cubic Yards (CY)]	Re-Used On-Site (CY)	Off-Site Disposal (CY)
Total	**60**	**45**	**15**

Based upon the on the relatively small quantity of material proposed for excavation during this project, and the previously existing subsurface data from the Remedial Investigation, no sampling and laboratory analysis is planned for the 45 cubic yards of material proposed for on-site re-use, unless the material exhibits evidence of impairment. If this material is observed to exhibit evidence of impairment, then it would be sampled, analyzed, and re-used as outlined in the Excavation Work Plan (EWP) [Appendix B of the Site Management Plan (SMP)].

Given the relatively shallow excavations (4-foot maximum depth), significant amounts of groundwater are not expected to be encountered during construction. However, if groundwater accumulates in excavations and requires removal, it will be containerized. All such liquids to be removed from the excavations will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. It is anticipated that groundwater will be sampled, treated if necessary, and discharged to the sanitary sewer system with prior approval from the local sewer authority.

A sub-slab depressurization system (SSDS) was installed within the 3875 West Henrietta Road building during redevelopment of this structure in 2012. In order to expand the SSDS during this project, additional sub-slab perforated piping and vapor barrier are proposed for inclusion beneath the building in areas where floor slab will be replaced during construction of the ±500 Square Foot Building Addition. The new sub-slab perforated piping is proposed for connection to existing sub-slab piping in the southwestern portion of the building.

Summary of Environmental Conditions Anticipated to be Encountered

Soil and Fill Materials – on-site subsurface characteristics are based primarily on information obtained from the advancement soil borings and the excavation test pits completed as part of the BCP Remedial Investigation. Soils encountered beneath the asphalt pavement, concrete

slabs or topsoil layer within the soil borings and test pits completed at the Site generally revealed a Fill Material layer consisting primarily of coarse to fine-grained Sand and coarse to fine-grained Gravel with little or no Silt. The Fill Material deposit generally ranged in thickness from 0.6 to 4 feet, but was found to be up to 8 feet thick in some borings.

The following investigation locations were completed during the Remedial Investigation and are situated nearest the proposed work area:

- soil boring "RITB-4";
- soil boring "RITB-9"; and
- test pit "RITP-4".

For your reference, copies of the logs for the above investigation locations and a figure are included in Attachment 2. The subsurface findings at the above investigation locations found sandy and gravelly fill material extending to depths of approximately 4 feet below existing grade.

A shallow (0.5 to 1.8 feet below existing grade) soil sample was collected from soil boring RITB-4 was collected and submitted for laboratory analysis of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs). As shown on the attached (see Attachment 2) Figure 3 from the BCP Remedial Investigation Report, no VOCs and SVOCs were reported at concentrations above their respective NYCRR Subpart 375-6 Restricted Use Soil Cleanup objectives for the Protection of Groundwater.

Schedule

As noted previously, the owner of the Site would like to proceed with the construction of the ±500 Square Foot Building Addition as soon as possible. The estimated duration of the proposed work is approximately 90 days. The estimated duration of the on-site excavation work is approximately three (3) weeks.

Applicable EWP Components

The SMP and EWP will be followed for completing the excavation work. As noted previously, based upon the on the relatively small quantity of material proposed for excavation during this project, and the previously existing subsurface data from the Remedial Investigation, no sampling and laboratory analysis is planned with regard to the 45 cubic yards of material proposed for on-site re-use, unless the material exhibits evidence of impairment. If this material is observed to exhibit evidence of impairment, then it would be sampled, analyzed, and re-used as outlined in the EWP. The following components of the EWP are the most significant/relevant to this project:

- Section B-2: Soil-Screening Methods
- Section B-3: Stockpile Methods
- Section B-4: Excavation and Load Out of Material
- Section B-5: Transport of Material Off-Site

- Section B-6: Off-Site Disposal of Material
- Section B-7: Reuse of Materials On-Site
- Section B-9: Cover System Restoration
- Section B-10: Backfill From Off-Site Sources
- Section B-11: Stormwater Pollution Prevention
- Section B-13: Community Air Monitoring Plan
- Section B-15: Dust Control Plan

During all soil/fill disturbances, soils will be assessed for visible and olfactory indications of impairment, including the presence of fill material, and indications of detectable VOCs with a photoionization detector (PID) by a LaBella representative. Types of fill materials and depths of such materials, if encountered, will be documented by a LaBella representative.

The New York State Department of Health (NYSDOH) Generic Community Air Monitoring Plan (CAMP) will be followed during all ground intrusive work. Two (2) air monitoring locations, one (1) upwind and one (1) downwind from the excavation activities will be set up preceding any ground intrusive work. Due to the variability of the wind direction these locations may change on a daily, or more frequent, basis. The location(s) of the air sampling stations, based upon generally prevailing wind conditions, will be recorded in a daily log of activities by a LaBella representative. Exceedances of action levels listed in the CAMP will be recorded. Dust suppression will be completed as necessary, as defined in the SMP and EWP.

Compliance with EWP and 29 CFR 1910.120

All parties working at the Site are aware of and have been provided a copy of the EWP and the requirements of 29 CFR 1910.120. All work will be completed in accordance with these requirements.

Disposal Facilities

As noted previously, it is anticipated that approximately 15 cubic yards of excavated material cannot be reused on-Site, so these excess spoils will be disposed of at Mill Seat Landfill operated by Waste Management, or an equivalent NYSDEC-permitted landfill. All transport of regulated materials and characterized wastes will be performed by licensed haulers in properly placarded trucks in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. It is anticipated that construction vehicles will enter and leave the Site via West Henrietta Road.

Backfill Materials

A Request to Import/ Reuse Fill or Soil form will be completed and provided to the NYSDEC for material is to be imported on the Site for use as backfill.

If you have any questions, please do not hesitate to contact me at (585) 295-6295.

Sincerely,

LABELLA ASSOCIATES, D.P.C.

Kyle R. Miller
Sr. Environmental Analyst

Attachment 1: Change of Use Form, Construction Drawings and Specifications

Attachment 2: Pertinent Subsurface Investigation Logs and Figures

Attachment 3: Excavation Work Plan (Appendix B to Site Management Plan)

cc: Mr. Al Baronas, RJ Dorschel Corporation (w/o Attachment 1)
Mr. Kirk Olsen, Spoleta Construction (w/o Attachment 1)

J:\RJ Dorschel Corp\209395 - 3865 3875 W Henrietta Rd Rem Act\2017 MINI Bldg. Change of Use\2017_08_11_Excavation Notice C828134.doc

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

ATTACHMENT 1

Change of Use Form, Construction Drawings and Specifications

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion, and/or Ownership

Required by 6NYCRR Part 375-1.11(d) and 375-1.9(f)

To be submitted at least 60 days prior to change of use to:

Chief, Site Control Section
New York State Department of Environmental Conservation
Division of Environmental Remediation, 625 Broadway
Albany NY 12233-7020

I. Site Name: Former Steve Joy's Sunoco **DEC Site ID No.** C828134

II. Contact Information of Person Submitting Notification:

Name: Al Baronas - RJ Dorschel Corporation

Address1: 3817 West Henrietta Road Rochester, NY 14623

Address2:

Phone: (585) 321-2403 E-mail: abaronas@dorschel.com

III. Type of Change and Date: Indicate the Type of Change(s) (check all that apply):

- ☐ Change in Ownership or Change in Remedial Party(ies)
- ☐ Transfer of Certificate of Completion (CoC)
- ☑ Other (e.g., any physical alteration or other change of use)

Proposed Date of Change (mm/dd/yyyy): 08/2017

IV. Description: Describe proposed change(s) indicated above and attach maps, drawings, and/or parcel information.

Construct a +/- 500 sq. ft. building addition to an existing auto service area. Minor site work required for new foundations, storm drainage tie-in, and concrete walkways. Please refer to attached construction drawings for additional information.

If "Other," the description must explain and advise the Department how such change may or may not affect the site's proposed, ongoing, or completed remedial program (attach additional sheets if needed).

The proposed construction of a +/- 500 sq. ft. building addition to an existing auto service area should not substantively impact the site's operations or the status of the site's completed remedial program.

V. Certification Statement: Where the change of use results in a change in ownership or in responsibility for the proposed, ongoing, or completed remedial program for the site, the following certification must be completed (by owner or designated representative; see §375-1.11(d)(3)(i)):

I hereby certify that the prospective purchaser and/or remedial party has been provided a copy of any order, agreement, Site Management Plan, or State Assistance Contract regarding the Site's remedial program as well as a copy of all approved remedial work plans and reports.

Name: _____ _____
(Signature) (Date)

_____
(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

VI. Contact Information for New Owner, Remedial Party, or CoC Holder: If the site will be sold or there will be a new remedial party, identify the prospective owner(s) or party(ies) along with contact information. If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/ECs), indicate who will be the certifying party (attach additional sheets if needed).

☐ Prospective Owner ☐ Prospective Remedial Party ☐ Prospective Owner Representative

Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

Certifying Party Name: _____

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

VII. Agreement to Notify DEC after Transfer: If Section VI applies, and all or part of the site will be sold, a letter to notify the DEC of the completion of the transfer must be provided. If the current owner is also the holder of the CoC for the site, the CoC should be transferred to the new owner using DEC's form found at http://www.dec.ny.gov/chemical/54736.html. This form has its own filing requirements (see 6NYCRR Part 375-1.9(f)).

Signing below indicates that these notices will be provided to the DEC within the specified time frames. If the sale of the site also includes the transfer of a CoC, the DEC agrees to accept the notice given in VII.3 below in satisfaction of the notice required by VII.1 below (which normally must be submitted within 15 days of the sale of the site).

Within 30 days of the sale of the site, I agree to submit to the DEC:

1. the name and contact information for the new owner(s) (see §375-1.11(d)(3)(ii));
2. the name and contact information for any owner representative; and
3. a notice of transfer using the DEC's form found at http://www.dec.ny.gov/chemical/54736.html (see §375-1.9(f)).

Name: _____ _____

(Signature) (Date)

_____

(Print Name)

Address1: _____

Address2: _____

Phone: _____ E-mail: _____

Continuation Sheet

☐ Prospective Owner/Holder ☐ Prospective Remedial Party ☐ Prospective Owner Representative
Name: ____________________
Address1: ____________________
Address2: ____________________
Phone: ____________ E-mail: ____________________

☐ Prospective Owner/Holder ☐ Prospective Remedial Party ☐ Prospective Owner Representative
Name: ____________________
Address1: ____________________
Address2: ____________________
Phone: ____________ E-mail: ____________________

☐ Prospective Owner/Holder ☐ Prospective Remedial Party ☐ Prospective Owner Representative
Name: ____________________
Address1: ____________________
Address2: ____________________
Phone: ____________ E-mail: ____________________

☐ Prospective Owner/Holder ☐ Prospective Remedial Party ☐ Prospective Owner Representative
Name: ____________________
Address1: ____________________
Address2: ____________________
Phone: ____________ E-mail: ____________________

☐ Prospective Owner/Holder ☐ Prospective Remedial Party ☐ Prospective Owner Representative
Name: ____________________
Address1: ____________________
Address2: ____________________
Phone: ____________ E-mail: ____________________

☐ Prospective Owner/Holder ☐ Prospective Remedial Party ☐ Prospective Owner Representative
Name: ____________________
Address1: ____________________
Address2: ____________________
Phone: ____________ E-mail: ____________________

New York State Department of Environmental Conservation

Instructions for Completing the 60-Day Advance Notification of Site Change of Use, Transfer of Certificate of Completion (CoC), and/or Ownership Form

Submit to: Chief, Site Control Section, New York State Department of Environmental Conservation, Division of Environmental Remediation, 625 Broadway, Albany NY 12233-7020

Section I	**Description**
Site Name	Official DEC site name. (see http://www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=3)
DEC Site ID No.	DEC site identification number.

Section II	**Contact Information of Person Submitting Notification**
Name	Name of person submitting notification of site change of use, transfer of certificate of completion and/or ownership form.
Address1	Street address or P.O. box number of the person submitting notification.
Address2	City, state and zip code of the person submitting notification.
Phone	Phone number of the person submitting notification.
E-mail	E-mail address of the person submitting notification.

Section III	**Type of Change and Date**
Check Boxes	Check the appropriate box(s) for the type(s) of change about which you are notifying the Department. Check all that apply.
Proposed Date of Change	Date on which the change in ownership or remedial party, transfer of CoC, or other change is expected to occur.

Section IV	**Description**
Description	For each change checked in Section III, describe the proposed change. Provide all applicable maps, drawings, and/or parcel information. If "Other" is checked in Section III, explain how the change may affect the site's proposed, ongoing, or completed remedial program at the site. Please attach additional sheets, if needed.

Section V Certification Statement

This section must be filled out if the change of use results in a change of ownership or responsibility for the proposed, ongoing, or completed remedial program for the site. When completed, it provides DEC with a certification that the prospective purchaser has been provided a copy of any order, agreement, or State assistance contract as well as a copy of all approved remedial work plans and reports.

Name	The owner of the site property or their designated representative must sign and date the certification statement. Print owner or designated representative's name on the line provided below the signature.
Address1	Owner or designated representative's street address or P.O. Box number.
Address2	Owner or designated representative's city, state and zip code.
Phone	Owner or designated representative's phone number.
E-Mail	Owner or designated representative's E-mail.

Section VI Contact Information for New Owner, Remedial Party, and CoC Holder (if a CoC was issued)

Fill out this section only if the site is to be sold or there will be a new remedial party. Check the appropriate box to indicate whether the information being provided is for a Prospective Owner, CoC Holder (if site was ever issued a COC), Prospective Remedial Party, or Prospective Owner Representative. Identify the prospective owner or party and include contact information. A Continuation Sheet is provided at the end of this form for additional owner/party information.

Name	Name of Prospective Owner, Prospective Remedial Party or Prospective Owner Representative.
Address1	Street address or P.O. Box number for the Prospective Owner, Prospective Remedial Party, or Prospective Owner Representative.
Address2	City, state and zip code for the Prospective Owner, Prospective Remedial Party, or Prospective Owner Representative.
Phone	Phone number for the Prospective Owner, Prospective Remedial Party or Prospective Owner Representative.
E-Mail	E-mail address of the Prospective Owner, Prospective Remedial Party or Prospective Owner Representative.

If the site is subject to an Environmental Easement, Deed Restriction, or Site Management Plan requiring periodic certification of institutional controls/engineering controls (IC/EC), indicate who will be the certifying party(ies). Attach additional sheets, if needed.

Certifying Party	
Name	Name of Certifying Party.
Address1	Certifying Party's street address or P.O. Box number.
Address2	Certifying Party's city, state and zip code.
Phone	Certifying Party's Phone number.
E-Mail	Certifying Party's E-mail address.

Section VII Agreement to Notify DEC After Property Transfer/Sale

This section must be filled out for all property transfers of all or part of the site. If the site also has a CoC, then the CoC shall be transferred using DEC's form found at http://www.dec.ny.gov/chemical/54736.html

Filling out and signing this section of the form indicates you will comply with the post transfer notifications within the required timeframes specified on the form. If a CoC has been issued for the site, the DEC will allow 30 days for the post transfer notification so that the "Notice of CoC Transfer Form" and proof of it's filing can be included. Normally the required post transfer notification must be submitted within 15 day (per 375-1.11(d)(3)(ii)) when no CoC is involved.

Name	Current property owner must sign and date the form on the designated lines. Print owner's name on the line provided.
Address1	Current owner's street address.
Address2	Current owner's city, state and zip code.

DORSCHEL MINI OF ROCHESTER SERVICE BAY ADDITION & ALTERATION

RJ DORSCHEL CORP.
3875 W.HENRITETTA ROAD, ROCHESTER, NY 14623

LABELLA PROJECT NO. 2171059
CONSTRUCTION DOCUMENTS
05/17/2017

GENERAL NOTES

* THE ARCHITECT'S CERTIFICATION ON THIS PROJECT IS ONLY FOR THE CONSTRUCTION WORK SHOWN TO BE DONE. IT DOES NOT CONSTITUTE APPROVAL OF ANY PREEXISTING CONDITIONS OR REVIEW OF THOSE CONDITIONS FOR CODE COMPLIANCE.

* REFER TO OUTLINE SPECIFICATIONS OR PROJECT MANUAL FOR SPECIFICATIONS AND ADDITIONAL INFORMATION.

* CONSTRUCTION SHALL CONFORM TO CURRENT EDITIONS OF THE 2015 BUILDING CODE OF NEW YORK STATE, THE 2015 EXISTING BUILDING CODE OF NEW YORK STATE, THE 2015 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE, THE NATIONAL ELECTRICAL CODE 1999 (NEC), THE 2015 PLUMBING CODE OF NEW YORK STATE, THE 2015 MECHANICAL CODE OF NEW YORK STATE, THE 2015 FUEL GAS CODE OF NEW YORK STATE, THE 2015 FIRE CODE OF NEW YORK STATE, NFPA 101 LIFE SAFETY CODE 2012, NFPA 99 STANDARD FOR HEALTHCARE FACILITIES 1999, NEW YORK STATE HEALTH CODE (10NYCRR), GUIDELINES FOR DESIGN AND CONSTRUCTION OF HOSPITAL AND HEALTHCARE FACILITIES 2010 EDITION (NYS DOH) AND 2001 EDITION (JCAHO), (ARTICLE 28 HEALTHCARE ONLY) ADAAG AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES 2004 ED., STANDARDS FOR ACCESSIBLE DESIGN (28 CFR PART 35 & 36, 2004), AND AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES (ICC/ANSI A117.1-2003), AS WELL AS ALL OTHER CURRENT LOCAL, STATE AND FEDERAL CODES AND REGULATIONS APPLICABLE TO THIS PROJECT.

* COMPLY WITH ALL OTHER CURRENT AND IN-FORCE LOCAL, STATE AND FEDERAL CODES AND REGULATIONS APPLICABLE TO THIS PROJECT.

* GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS, CONSTRUCTION METHODS AND CRAFTSMANSHIP.

* GENERAL CONTRACTOR TO VERIFY ALL REQUIREMENTS, NOTES AND DIMENSIONS PRIOR TO THE START OF CONSTRUCTION. REPORT ALL DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.

* GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CHANGES TO THESE DOCUMENTS. SITE VISITS MIGHT NOT BE MADE BY THIS ARCHITECT TO VERIFY CONFORMANCE.

* DUE TO REPRODUCTION QUALITY AND REVISIONS MADE DURING THE DEVELOPMENT OF THESE PLANS THEY MAY NOT REFLECT THE DIMENSIONS NOTED. DO NOT SCALE THE DRAWINGS.

* THE QUALITY OF CONSTRUCTION IS TO MATCH SURROUNDING AREAS UNLESS OTHERWISE SPECIFIED OR NOTED.

* ALL MATERIALS ARE TO MATCH EXISTING UNLESS NOTED OTHERWISE. WHEN IN QUESTION, THE CONTRACTOR SHALL CONSULT THE OWNER TO DETERMINE WHAT THE BUILDING'S "STANDARD" IS.

* IN THE EVENT OF A MATERIAL CONFLICT SPECIFICATIONS SHALL TAKE PRECEDENT OVER DRAWINGS. IN EVENT OF A DIMENSIONAL CONFLICT DRAWINGS TAKE PRECEDENT OVER SPECIFICATIONS.

* GENERAL CONTRACTOR SHALL SET ALL GRADES.

* CALL BEFORE YOU DIG. 1-800-962-7962

* NO PART OF THESE DOCUMENTS MAY BE REPRODUCED WITHOUT WRITTEN PERMISSION FROM **LABELLA ASSOCIATES**

* THE DRAWINGS AND SPECIFICATIONS PREPARED BY THE ARCHITECT FOR THIS PROJECT ARE INSTRUMENTS OF THE ARCHITECT'S SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT AND, UNLESS OTHERWISE PROVIDED, **LABELLA ASSOCIATES** SHALL BE DEEMED THE AUTHOR OF THESE DOCUMENTS AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING THE COPYRIGHT. THE OWNER SHALL BE PERMITTED TO RETAIN COPIES OF THE DOCUMENTS FOR INFORMATION AND REFERENCE IN CONNECTION WITH THE OWNER'S USE AND OCCUPANCY OF THE PROJECT. THE ARCHITECT'S DOCUMENTS SHALL NOT BE USED BY THE OWNER OR OTHERS FOR ANOTHER PROJECT OR FOR ADDITIONS TO THIS PROJECT EXCEPT AS AGREED TO IN WRITING BY THE ARCHITECT AND WITH APPROPRIATE COMPENSATION TO THIS ARCHITECT.

* THE FOLLOWING IS AN EXCERPT FROM THE NEW YORK EDUCATION LAW ARTICLE 145 SECTION 7209 AND APPLIES TO THESE DRAWINGS: "IT IS A VIOLATION OF THIS LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECT SUPERVISION OF A LICENSED ARCHITECT TO ALTER AN ITEM IN ANY WAY". IF AN ITEM BEARING THE SEAL OF AN ARCHITECT IS ALTERED, THE ALTERING ARCHITECT SHALL AFFIX HIS SEAL AND NOTATION "ALTERED BY" FOLLOWED BY HIS SIGNATURE AND DATE OF SUCH ALTERATION AND SPECIFIC DESCRIPTION OF THE ALTERATION.

INDEX OF DRAWINGS

NYS BUILDING CODE DATA

CODE REVIEW INFORMATION
2015 BUILDING CODE OF NEW YORK STATE

BUILDING DATA

		NYS REQ'D.	PROVIDED
USE DESCRIPTION		VEHICLE REPAIR	
SPECIAL REQUIREMENTS	NYS CHAPTER 4	N/A	N/A
OCCUPANCY	NYS CHAPTER 3	S-1	
MIXED OCCUPANCY	NYS BC508	N/A	N/A
CLASSIFICATION OF WORK	EBC NYS CHAPTER 5	ADDITION & ALT. LVL 2	COMPLIES
CONSTRUCTION TYPE	NYS CHAPTER 6	2B	COMPLIES
NO. OF STORIES BUILDING HEIGHT	NYS BC504	55' 2 STORIES	1-STORY COMPLIES
ALLOWABLE BUILDING AREA	NYS BC506	17,500	
INCREASE FOR FRONTAGE	NYS BC506.3	NR	
INCREASE FOR SPRINKLERS (1 STORY)	TABLE BC506.2	NR	
TOTAL MAXIMUM ALLOWABLE BLDG. AREA	NYS BC506	17,500	
EXISTING BUILDING GROSS AREA		3,335 SF	S-1 OCC.
BUILDING ADDITION GROSS AREA		462 SF	S-1 OCC.
TOTAL S-1 BUILDING GROSS AREA		3,797 SF	COMPLIES
NUMBER OF OCCUPANTS (IN PROJECT AREA)	NYS BC1004.1	200 SF PER OCC.	3,797 SF / 200 SF = 19 OCC.
EXIT WIDTH PER OCCUPANT	NYS BC1005.3	0.2" PER OCC.	19 * 0.2" = 3.8" (COMPLIES)
EXIT WIDTH	NYS BC1005.3	0.2" PER OCC.	19 * 0.2" = 3.8" (COMPLIES)
MIN. NO. OF EXITS	NYS BC1006	1-EXIT <29 OCC.	COMPLIES
ONE EXIT RULES	NYS BC1006.2 & BC1006.3.1	1-EXIT <29 OCC.	COMPLIES
DOORS	NYS BC1010.1.1	32" CLEAR	36" COMPLIES
STAIRWAY WIDTH	NYS BC1011.2	N/A	N/A
CORRIDOR WIDTH	NYS BC1005.1 & BC1020.2	N/A	N/A
MAXIMUM TRAVEL DISTANCE	NYS TABLE BC1017.2	200'	COMPLIES
MAXIMUM COMMON PATH OF TRAVEL	NYS TABLE BC1006.2.1	100'	COMPLIES
MAXIMUM DEAD END CORRIDOR	NYS BC1020.4	N/A	N/A
CONCEALED SPACE DRAFTSTOPPING	NYS BC718	N/A	N/A
SMOKE COMPARTMENT	NYS CHAPTER 4	NR	NR
INTERIOR FINISHES CLASS @ EXITS & VERT.EXITS		B	COMPLIES
INTERIOR FINISHES CLASS @ EXITS ACCESS	T-BC803.11	C	COMPLIES
INTERIOR FINISHES CLASS @ ROOMS	T-BC803.11	C	COMPLIES
FIRE EXTINGUISHER SPACING	FIRE CODE OF NYS FC906	75' 1/3,000 SF	COMPLIES
AUTOMATIC SPRINKLER SYSTEM	NYS BC903.2.9	YES (NO)	YES (NO)
	LOCAL	YES (NO)	
STANDPIPE SYSTEM	NYS SECTION BC905	(NO)	COMPLIES
SMOKE & FIRE DETECTION	NYS SECTION BC907	YES (NO)	YES (NO)
FIRE ALARM SYSTEM	NYS SECTION BC907	YES (NO)	(E) NO
ACCESSIBILITY DESIGN		BC NYS CHAPTER 11	
		NYS REQ'D.	PROVIDED
VERTICAL ACCESS REQUIRED	NYS BC1104.4	YES (NO)	YES NO (N/A)
ACCESSIBLE ENTRANCE	NYS BC1105	YES (NO)	YES NO (N/A)
PASSENGER LOADING ZONES	NYS BC1106.7	YES (NO)	YES NO (N/A)

FIRE RESISTANCE RATINGS

BUILDING ELEMENT TABLE		NYS REQ'D.	PROVIDED
STRUCTURAL FRAME:		NYS TABLE 601	0
COLUMNS, BEAMS, GIRDERS, TRUSSES AND ARCHES:			0
• SUPPORTING MORE THAN 1 FLOOR COLUMNS OR OTHER BEARING WALLS			0
• SUPPORTING 1 FLOOR ONLY			0
• SUPPORTING FOR ROOF ONLY			0
WALLS, FLOORS AND ROOFS:		0	0
• EXTERIOR BEARING WALLS		0	0
• INTERIOR BEARING WALLS		0	0
• EXTERIOR NON-BEARING WALLS		0	0
• INTERIOR NON BEARING WALLS		0	0
• FLOOR CONSTRUCTION INCLUDING BEAMS & JOISTS		0	0
• ROOF CONSTRUCTION INCLUDING BEAMS & JOISTS		0	0
FIRE WALLS	TABLE BC706.4	YES (NO)	N/A
FIRE BARRIERS	NYS BC707	YES (NO)	COMPLIES
• VERTICAL EXIT ENCLOSURE	NYS BC1023	N/A	N/A
• EXIT PASSAGEWAY	NYS BC1024	N/A	N/A
• HORIZONTAL EXIT SEPARATION	NYS BC1026	N/A	N/A
• INCIDENTAL USE AREAS	NYS BC509	1-HR	1-HR
• OCCUPANCY SEPARATION	NYS BC508	EXISTING COMPLIES	EXISTING COMPLIES
• SHAFT ENCLOSURE	NYS BC713.4	N/A	N/A
FIRE PARTITIONS	NYS BC708	(YES) NO	1-HR
• CORRIDOR WALLS	T-BC1020.1	N/A	N/A
• SMOKE BARRIERS	NYS BC709.3	N/A	N/A
FIRE PROOFING ASSEMBLIES BEAMS COLUMNS FLOOR SYSTEM ROOF SYSTEM	NYS BC704	MAINTAIN EXISTING	MAINTAIN EXISTING

ABBREVIATIONS:
1. "NA" INDICATES "NOT APPLICABLE" OR "NOT PART OF THIS PROJECT."
2. "NC" INDICATES "NON-COMBUSTIBLE" CONSTRUCTION.
3. "C" INDICATES COMBUSTIBLE CONSTRUCTION.
4. "NR" INDICATES NOT REQUIRED.
5. "B" INDICATES BARRIER TO LIMIT TRANSFER OF SMOKE.

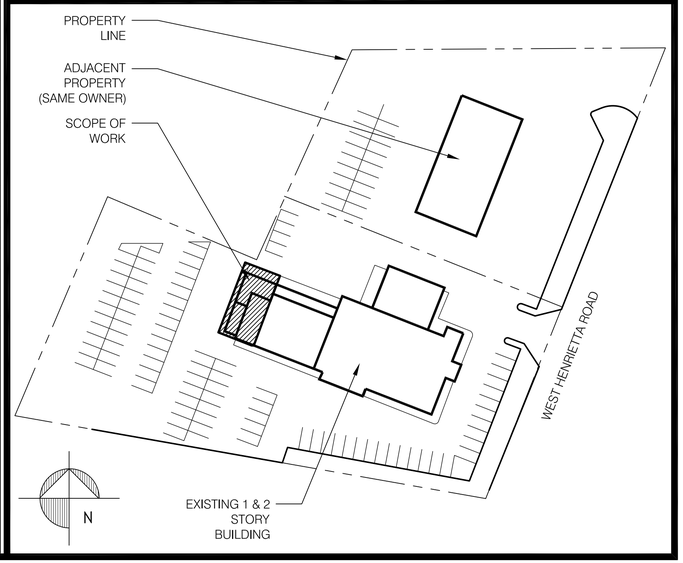
STRUCTURAL DESIGN

REFER TO SPECIFIC DRAWING AND SPECIFICATION SECTIONS FOR ADDITIONAL STRUCTURAL DESIGN CRITERIA INCLUDING BUT NOT LIMITED TO, LIVE LOAD, DEAD LOAD, AND LATERAL LOADS APPLICABLE TO THIS PROJECT.

SCOPE OF WORK

- CONSTRUCT A BUILDING ADDITION APPROXIMATELY 500 SF TO AN EXISTING SERVICE WING TO PROVIDE FOR A RECONFIGURED SPACE THAT WILL INCLUDE A WASH BAY, CAR LIFT, STORAGE, AND MISCELLANEOUS SERVICE WORK SPACE. EXISTING EQUIPMENT TO BE RELOCATED. MINOR SITE WORK REQUIRED FOR NEW FOUNDATIONS, STORM DRAINAGE TIE-IN AND CONCRETE WALKWAYS.

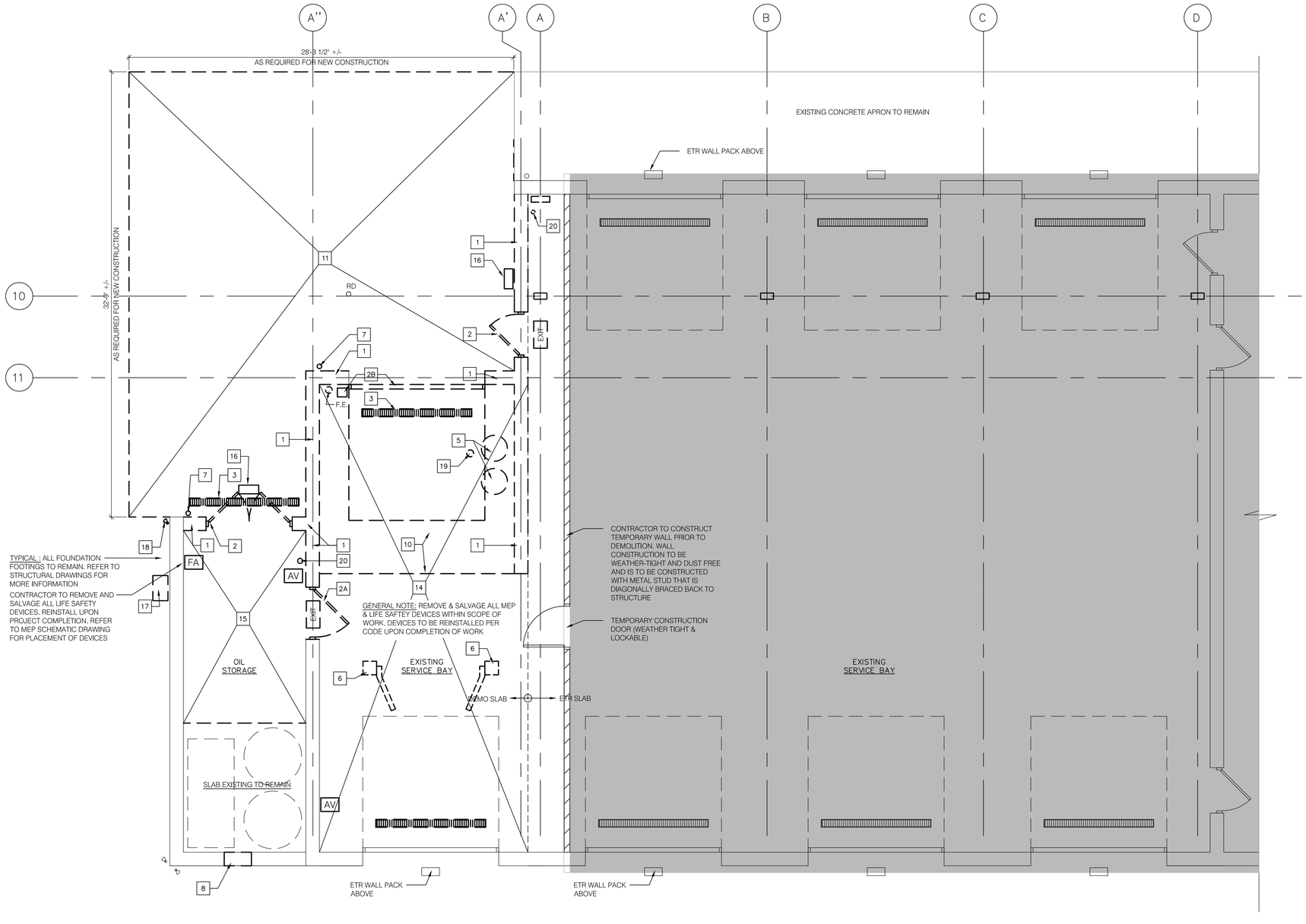
SITE PLAN



CONSTRUCTION DOCUMENTS
05/17/2017

DORSCHEL MINI OF ROCHESTER
PROJECT NO. 2171059

LABELLA
SERVICE BAY ADDITION & ALTERATION
3875 W. HENRIETTA ROAD, ROCHESTER, NY 14623



1 D100 DEMOLITION PLAN

SCALE: 1/4" = 1'-0"

SYMBOLS

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- EXISTING DOOR TO REMAIN
- EXISTING DOOR AND FRAME TO BE REMOVED
- NOT IN SCOPE OF WORK (EXISTING CONSTRUCTION)
- TEMPORARY WALL

SYMBOLS

1. REMOVE EXISTING MASONRY WALL TO DEPTH SHOWN ON STRUCTURAL DRAWINGS
2. REMOVE & SALVAGE EXISTING DOOR. FRAME TO BE REMOVED. PREPARE DOOR FOR INSTALLATION
2A. REMOVE DOOR, FRAME, AND HARDWARE
2B. REMOVE OVERHEAD DOOR, FRAME, AND OPENER FOR RELOCATION
3. REMOVE EXISTING TRENCH DRAIN ASSEMBLY. CUT & CAP SANITARY LINE AS REQUIRED.
4. REMOVE & SALVAGE SECURITY PANEL AND ALL ACCESSORIES. PREPARE FOR REINSTALLATION
5. DISCONNECT & SALVAGE SERVICE EQUIPMENT. EQUIPMENT TO BE STORED UNTIL ADDITION IS COMPLETE. COORDINATE W/OWNER
6. REMOVE AND SALVAGE ALL LIFT EQUIPMENT & ACCESSORIES
7. REMOVE GUTTER AND DOWNSPOUT DOWN TO STORM DRAIN TIE-IN. EXCAVATE STORM LINE AS REQUIRED AND REMOVE UNDER BUILDING FOOTPRINT PREPARE STORM LINE FOR RECONNECTION
8. REMOVE PORTION OF EXTERIOR WALL ASSEMBLY TO ACCOMMODATE LOUVER VENT. PREPARE OPENING AS REQUIRED.
9. GRIND AND/OR REMOVE IN ENTIRETY TILE FLOOR FINISH. PREPARE SLAB FOR NEW EPOXY FINISH
10. REMOVE EXISTING MEZZANINE, RAILINGS, AND MEZZANINE STRUCTURE
11. SAW-CUT & EXCAVATE AS REQUIRED EXISTING ASPHALT DRIVEWAY WITHIN BUILDING ADDITION FOOTPRINT. REMOVE ANY ORGANIC FILL. PREPARE FOR NEW POURED CONCRETE APRON. PATCH IN TO EXISTING ASPHALT.
12. REMOVE EXISTING ROOFING JOISTS, DECKING, AND MEMBRANE
13. REMOVE EXISTING ALUMINUM COPING & BLOCKING DOWN TO MASONRY BLOCK WALL. PREPARE TOP OF MASONRY FOR NEW COURSING. REFER TO EXTERIOR ELEVATIONS & ROOF PLAN FOR MORE INFORMATION
14. REMOVE EXISTING SLAB ON GRADE AS REQUIRED FOR NEW TRENCH DRAINS AND LIFT EQUIPMENT PIT. REMOVE SUB-BASE IF INADEQUATE. PREPARE FOR NEW SLAB POUR
15. SAW-CUT AND REMOVE EXISTING CONC. SLAB AS REQUIRED & PREPARE FOR NEW SLAB POUR
16. REMOVE AND RELOCATE EXISTING WALL PACKS. COORDINATE NEW LOCATIONS WITH OWNER
17. REMOVE AND RELOCATE EXISTING BATTERY CHARGING SYSTEM
18. REMOVE AND RELOCATE EXISTING SECURITY CAMERA SYSTEM
19. REMOVE EXISTING FURNACE VENT
20. CUT AND CAP EXISTING HOSE BIB

LABELLA
300 State Street | Engineering
Suite 201 | Architecture
Rochester, NY 14614 | Environmental
P: (585) 454-6110 | Planning
www.labellapc.com

REGISTERED ARCHITECT CHARLES MINER 031500 STATE OF NEW YORK

DORSCHEL MINI OF ROCHESTER
3875 WEST HENRIETTA ROAD
ROCHESTER, NY 14623

SERVICE BAY ADDITION & ALTERATION

MINI
DORSCHEL
clear. simple. different.

NO:	DATE:	DESCRIPTION:
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REVISIONS		

PROJECT NUMBER: 2171059
DRAWN BY: CD
REVIEWED BY: SM
ISSUED FOR: CONSTRUCTION
ISSUED DATE: 5/17/2017
DRAWING NAME: DEMOLITION FLOOR PLAN
DRAWING NUMBER: D100

Date & Time: 5/17/2017 11:17 AM By: z
Path: z:\h2 Dorschel Corp\2171059 - Mini Cooper Dealer Addition\Drawings\Arch\3-CD\D100 - Demo Plan 2171059.dwg

ABBREVIATIONS

THIS LIST REPRESENTS COMMON ABBREVIATIONS WHICH MAY BE USED IN GARDNER PLUS ARCHITECTS CONSTRUCTION DOCUMENTS. OTHER INDUSTRY ACCEPTED ABBREVIATIONS MAY ALSO BE USED.

A
AB ANCHOR BOLT
ABV ABOVE
A/C AIR CONDITIONING
ACOUST ACOUSTICAL
ACT ACOUSTICAL CEILING TILE
ACR ACRYLIC
AD AREA DRAIN
ADH ADHESIVE
ADJ ADJUSTABLE
ADT'N ADDITION
A.F.F. ABOVE FINISH FLOOR
AGGR AGGREGATE
AHU AIR HANDLING UNIT
ALUM ALUMINUM
ALT ALTERNATE
ANCH ANCHOR
ANOD ANODIZED
ANSI AMERICAN NATIONAL STANDARDS INSTITUTE
AP ACCESS PANEL
APA AMERICAN PLYWOOD ASSOCIATION
APPL APPLICABLE
APROX APPROXIMATE
ARCH ARCHITECTURAL
ASB ASBESTOS
ASPH ASPHALT
AUTO AUTOMATIC
A/V AUDIO/VISUAL ALARM
AWI ARCHITECTURAL WOODWORK INSTITUTE

B
BC BOTTOM OF CURB
BD BOARD
BITUM BITUMINOUS
BLDG BUILDING
BLK BLOCK
BLKG BLOCKING
BM BEAM
BOS BOTTOM OF STEEL
BOTT BOTTOM
BSMT BASEMENT
BR BUMPER RAIL
BRDG BRIDGING
BTWN BETWEEN

C
CAB CABINET
CB CARPET BASE
CB CATCH BASIN
CEM CEMENT
CF CUBIC FEET
CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFMF COLD FORMED METAL FRAMING
CG CORNER GUARD
CH COAT HOOK
CI CAST IRON
CJ CONTROL JOINT
CKBD CHALKBOARD
CL CENTERLINE
CLG CEILING
CLK CAULKING
CLR CLEAR
CLST CLOSET
CMT CERAMIC MOSAIC TILE
CMU CONCRETE MASONRY UNIT
CNTR COUNTER
CO CLEAN OUT
COL COLUMN
CONC CONCRETE
CONN CONNECTION
CONST CONSTRUCTION
CONT CONTINUOUS
CONTR CONTRACTOR
COORD COORDINATE
CORR CORRIDOR
CPT CARPET
CR CARD READER
CT CERAMIC TILE
CTB CERAMIC TILE BASE
CRS COURSING
CTR CENTER
CTSK COUNTERSUNK
CW COLD WATER
CY CUBIC YARD

D
DBL DOUBLE
DEPT DEPARTMENT
DET DETAIL
DF DRINKING FOUNTAIN
DIA DIAMETER
DIM DIMENSION
DISP DISPENSER
DN DOWN
DR DOOR
DS DOWNSPOUT
DSP DRY STANDPIPE
DWG DRAWING
DWR DRAWER

E
E EAST
EA EACH
EB EXPANSION BOLT
EC ELECTRICAL CONTRACTOR
EF EXHAUST FAN
EH EQUIPMENT HOOK
EIFS EXTERIOR INSULATION & FINISH SYSTEM
EJ EXPANSION JOINT
ELEV ELEVATION
ELEC ELECTRICAL
EL ELEVATOR
EMERG EMERGENCY
ENC ENCLOSURE
ENT ENTRANCE
EP ELECTRICAL PANEL
EPY EPOXY PAINT

E (CONT'D)
EQ EQUAL
EQUIP EQUIPMENT
ESC ESCALATOR
ETR EXISTING TO REMAIN
EW EACH WAY
EWC ELECTRIC WATER COOLER
EXH EXHAUST
EXIST EXISTING
EXPO EXPOSED
EXP EXPANSION
EXT EXTERIOR

F
FA FIRE ALARM
FCU FAN COIL UNIT
FD FLOOR DRAIN
FDN FOUNDATION
FE FIRE EXTINGUISHER
FEC FIRE EXTING. CABINET
FF FINISH FLOOR
FG FIBERGLASS
FHC FIRE HOSE CABINET
FHV FIRE HOSE VALVE
FIN FINISH
FL FIRE-LITE SAFETY GLASS
FLASH FLASHING
FLR FLOOR
FLUOR FLUORESCENT
FOC FACE OF CONCRETE
FOF FACE OF FINISH
FOS FACE OF STUDS
FRP FIBERGLASS REINFORCED PANEL
FP FIREPROOF
FS FULL SIZE
FT FOOT OR FEET
FTG FOOTING
FTWD FIRE TREATED WOOD
FURR FURRING

G
GA GAUGE
GALV GALVANIZED
GB GRAB BAR
GC GENERAL CONTRACTOR
GFI GROUND FAULT INTERRUPTER
GL GLASS
GND GROUND
GR GRADE
GT GLAZED TILE
GTB GLAZED TILE BASE
GWT GLAZED WALL TILE
GWB GYPSUM WALL BOARD

H
HB HOSE BIB
HC HANDICAPPED
HC HOLLOW CORE
HDBD HARD BOARD
HDWD HARDWOOD
HDR HEADER
HDWR HARDWARE
HI HIGH IMPACT
HM HOLLOW METAL
HORZ HORIZONTAL
HR HOUR
HR HAND RAIL
HT HEIGHT
HUMID HUMIDIFIER
HVAC HEATING/VENTILATION/ AIR CONDITIONING
HWP HIGH IMPACT WALL PROTECTION
HYD HYDRANT
HW HOT WATER
HWH HOT WATER HEATER

I
ID INSIDE DIAMETER
ILO IN LIEU OF
IN INCH
INSUL INSULATION
INT INTERIOR
INV INVERT
IVH IV HOOK

J
JAN JANITOR
JC JANITOR CLOSET
JST JOIST
JT JOINT

K
KD KNOCK DOWN
KIT KITCHEN
KOP KICK OUT PANEL
KP KICK PLATE
KYN KYNAR

L
LAB LABORATORY
LAM LAMINATE
LAV LAVATORY
LC/M LEAD CORE/METAL
LC/W LEAD CORE/WOOD
LG LEAD GLASS
LGMF LIGHT GA. MTL. FRAMING
LH LEFT HAND
LHR LEFT HAND REVERSE
LIN LINEN
LKR LOCKER
LLH LONG LEG HORIZONTAL
LLV LONG LEG VERTICAL
LMG LAMINATED GLASS
LT LIGHT
LV LOUVER
LVL LAMINATED VENEER LUMBER

M
MAX MAXIMUM
MC MEDICINE CABINET
MC MECHANICAL CONTRACTOR
MDO MEDIUM DENSITY OVERLAY
ME MATCH EXISTING
MECH MECHANICAL
MEMB MEMBRANE
MTL METAL
MFR MANUFACTURER
MH MANHOLE
MIN MINIMUM
MIR MIRROR
MISC MISCELLANEOUS
MO MASONRY OPENING
MTD MOUNTED
MTG MOUNTING
MTRL MATERIAL
MUL MULLION

N
N NORTH
NAT NATURAL
NEC NATIONAL ELECTRIC CODE
NEC NECESSARY
NIC NOT IN CONTRACT
NL NIGHT LIGHT
NO NUMBER
NOM NOMINAL
NTS NOT TO SCALE

O
OBS OBSCURE
OC ON CENTER
OD OUTSIDE DIAMETER
OFF OFFICE
OHD OVERHEAD DOOR
OFCI OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI OWNER FURNISHED, OWNER INSTALLED
OPNG OPENING
OPP OPPOSITE
OSB ORIENTED STRAND BOARD

P
PART PARTITION
PART.BD PARTICLE BOARD
PC PLUMBING CONTRACTOR
PC PRE-CAST
PD PENCIL DRAWER
PG PLEXIGLASS
PL PLATE
P. LAM PLASTIC LAMINATE
PLAS PLASTER
PLYWD PLYWOOD
PP POWER POLE
PR PAIR
PSF POUNDS PER SQUARE FOOT
PSI POUNDS PER SQUARE INCH
PSL PARALLEL STRAND LUMBER
PT PAINT
PTD PAPER TOWEL DISPENSER
PTD/R COMBO PAPER TOWEL DISPENSER & RECEPTACLE
PTM PATCH TO MATCH
PTWD PRESSURE TREATED WOOD

Q
QT QUARRY TILE
QTB QUARRY TILE BASE

R
R RISER
RAD RADIUS
RAF RAISED ACCESS FLOOR
RB RESILIENT BASE
RD ROOF DRAIN
REF REFRIGERATOR
REF REFERENCE
REG REGISTER
REINF REINFORCE
REQ REQUIRE(MENT)
REQ'D REQUIRED
RESIL RESILIENT
REV REVISION / REVISE
RH RIGHT HAND
RHR RIGHT HAND REVERSE
RL ROOF LEADER
RM ROOM
RO ROUCH OPENING
RR RUB RAIL
RT RADIAL TILE
RTU ROOF TOP UNIT

S
S SOUTH
SC SOLID CORE
SCD SEAT COVER DISPENSER
SCH SCHEDULE
SD SOAP DISPENSER
SF SQUARE FOOT
SH SHELF
SHR SHOWER
SHT SHEET
SIM SIMILAR
SLR SEALER
SM SHEET METAL
SND SANITARY NAPKIN DISP.
SND/R SANITARY NAPKIN DISP. & RECEPTACLE
SOL SOLID SURFACE
SPEC SPECIFICATION
SQ SQUARE
SS STAINLESS STEEL
ST STAIN
STA STATION
STD STANDARD
STL STEEL
STOR STORAGE
STR STRETCHER
STRUCT STRUCTURAL
SUSP SUSPENDED
SV SHEET VINYL
SY SQUARE YARD
SYM SYMMETRICAL

T
T TREAD
TB TOWEL BAR
TEL TELEPHONE
TEMP TEMPORARY
TG TEMPERED GLASS
T & G TONGUE & GROOVE
THK THICK
TKBD TACK BOARD
TOB TOP OF BEAM
TOC TOP OF CURB
TOPL TOP OF PLATE
TOS TOP OF STEEL
TP TOP OF PAVEMENT
TPD TOILET PAPER DISPENSER
TREAT TREATMENT
TRZ TERRAZZO
TOW TOP OF WALL
TV TELEVISION
TYP TYPICAL

U
UC UNDER COUNTER
UL UNDERWRITER'S LABORATORY
UNF UNFINISHED
UNO UNLESS NOTED OTHERWISE
UR URINAL

V
VB VAPOR BARRIER
VCT VINYL COMPOSITION TILE
VERT VERTICAL
VEST VESTIBULE
VIF VERIFY IN FIELD
VWC VINYL WALL COVERING
VWF VINYL WALL FABRIC

W
W WEST
W/ WITH
WC WATER CLOSET
WD WOOD
WDW WINDOW
WIC WALK IN CLOSET
WG WIRE GLASS
W/O WITHOUT
WP WATERPROOF
WT WEIGHT

Y
YD YARD
YD YARD DRAIN

Z
N/A

MISCELLANEOUS
⊥ PERPENDICULAR
ø DIAMETER
NUMBER
∠ ANGLE
@ AT
℄ CENTER LINE
℗ PROPERTY LINE
± PLUS / MINUS
□ SQUARE FEET
° DEGREE

MATERIAL SYMBOLS

EARTH
DRAINAGE FILL
GYPSUM WALL BOARD
WOOD (BLOCKING)
WOOD (ROUGH)
WOOD (FINISHED)
PLYWOOD
CONCRETE
STRUCTURAL STEEL
STONE
INSULATION (RIGID)
CMU
BRICK
INSULATION (BATT)

DRAWING SYMBOLS

SECTION TAG
WINDOW TYPE
EQUIPMENT NUMBER
FLOOR PLAN KEYNOTE
DEMOLITION KEYNOTE
REVISION
DATUM SYMBOL
NORTH ARROW

MEP/FP SYMBOLS

(UNLESS NOTED OTHERWISE PER DRAWINGS BY OTHERS)

MECHANICAL
POINT OF CONNECTION
LINEAR DIFFUSER
INSULATED FLEX DUCT – NO BENDS
BALANCING DAMPER
THERMOSTAT

PLUMBING
NEW SANITARY PIPING
NEW SANITARY VENT PIPING ABOVE CEILING
NEW COLD WATER PIPING
NEW HOT WATER PIPING
POINT OF CONNECTION

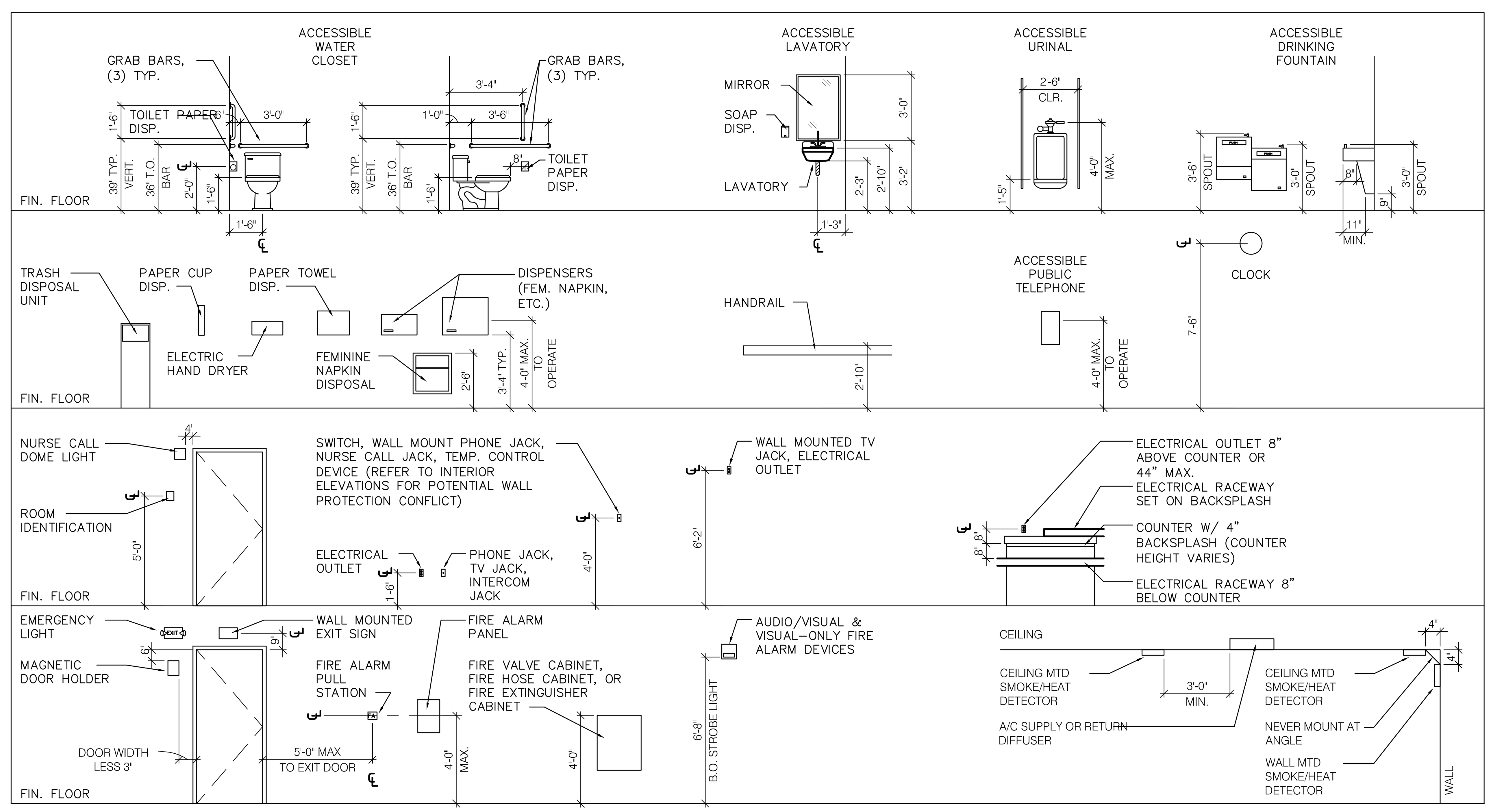
ELECTRICAL
DUPLEX OUTLET W/ MOUNTING HEIGHT (+18" A.F.F. IF NO HEIGHT INDICATED)
DUPLEX OUTLET W/ GROUND FAULT INTERRUPTER (+18" A.F.F. IF NO HEIGHT INDICATED)
QUAD OUTLET
PHONE OUTLET
WALL PHONE
DATA CONNECTION
PHONE / DATA OUTLET
SPECIAL PURPOSE DEDICATED OUTLET
PHONE OUTLET AND DBL DUPLEX IN FLOOR
NURSE CALL
1P ONE PATIENT BED STATION
2P TWO PATIENT BED STATION
DC DOME LIGHT – CEILING
DW DOME LIGHT – WALL
DS DUTY STATION
S STAFF STATION
P PULL CORD (BATH)
CB CODE BLUE
M MASTER
E EMERGENCY (PUSH FOR HELP)
Z ZONE LIGHT
CEILING SPEAKER
SINGLE POLE SWITCH
DIMMER
OCCUPANCY SENSOR
THREE WAY SWITCH
ELECTRIC PANEL
CEILING FAN

LINE TYPES

VISIBLE LINES IN CONTRACT
CENTER LINE OR COLUMN GRID
MATCH LINE OR PROPERTY LINE
ITEMS HIDDEN OVERHEAD OR NOT IN CONTRACT
BREAK LINE

TYPICAL MOUNTING HEIGHTS

(UNLESS NOTED OTHERWISE ELSEWHERE IN DRAWINGS; CONTACT ARCHITECT REGARDING ANY DISCREPANCIES IN CONFLICT WITH ALL APPLICABLE CODES)



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SERVICE BAY ADDITION & ALTERATION

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REVISIONS
PROJECT NUMBER: 2171059
DRAWN BY: CD
REVIEWED BY: SM
ISSUED FOR: CONSTRUCTION
ISSUED DATE: 5/17/2017
DRAWING NAME: **SYMBOLS & ABBREVIATIONS**
DRAWING NUMBER: **A000**

Date & Time: 5/17/2017 11:13 AM By: 2
Path: J:\RJ Dorschel Corp\2171059 - Mini Cooper Dealer Addition\Drawings\Arch\3-CD\A000 - SYM 2171059.dwg

DOOR SCHEDULE

DOOR MARK	DOOR					GLASS	LOUVER	RATING	FRAME			HARDWARE COMPONENTS	DETAIL NO.	NOTE NO.
	OPENING SIZE	TYPE	THICK.	CONST.	FINISH				TYPE	CONST.	FINISH			
DOOR-1	ETR 3'-0" X 7'-0"	EX	EX	EX	PT	---	---	---	1	HM	PT	B, CL, L-S, T, WS	---	1
DOOR-2	ETR 10'-0" X 10'-0"	EX	EX	EX	PT	---	---	---	EX	EX	EX	EXISTING	---	2
DOOR-3	(2) 3'-0" X 7'-0"	HM	1-3/4"	HM	PT	---	---	45 MIN.	2	HM	PT	(2)B, (2) CL, L-S, FL-IM, A, P		3

DOOR ABBREV.

CONSTRUCTION:

HM HOLLOW METAL
ALUM. ALUMINUM

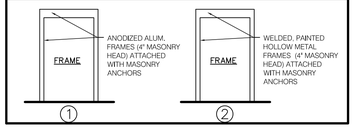
FRAME FINISH:

PT PAINT
AN. ANODIZED

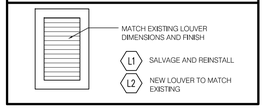
HARDWARE:

A ASTRAGAL
B BUTTS
CL CLOSER (COORDINATED)
FL-IM FLUSH BOLTS - MANUAL
L-S LOCKSET - STORAGE
P PULL
T THRESHOLD
WS WEATHERSTRIPPING

FRAME TYPE

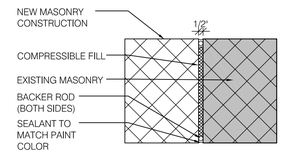


LOUVER TYPE

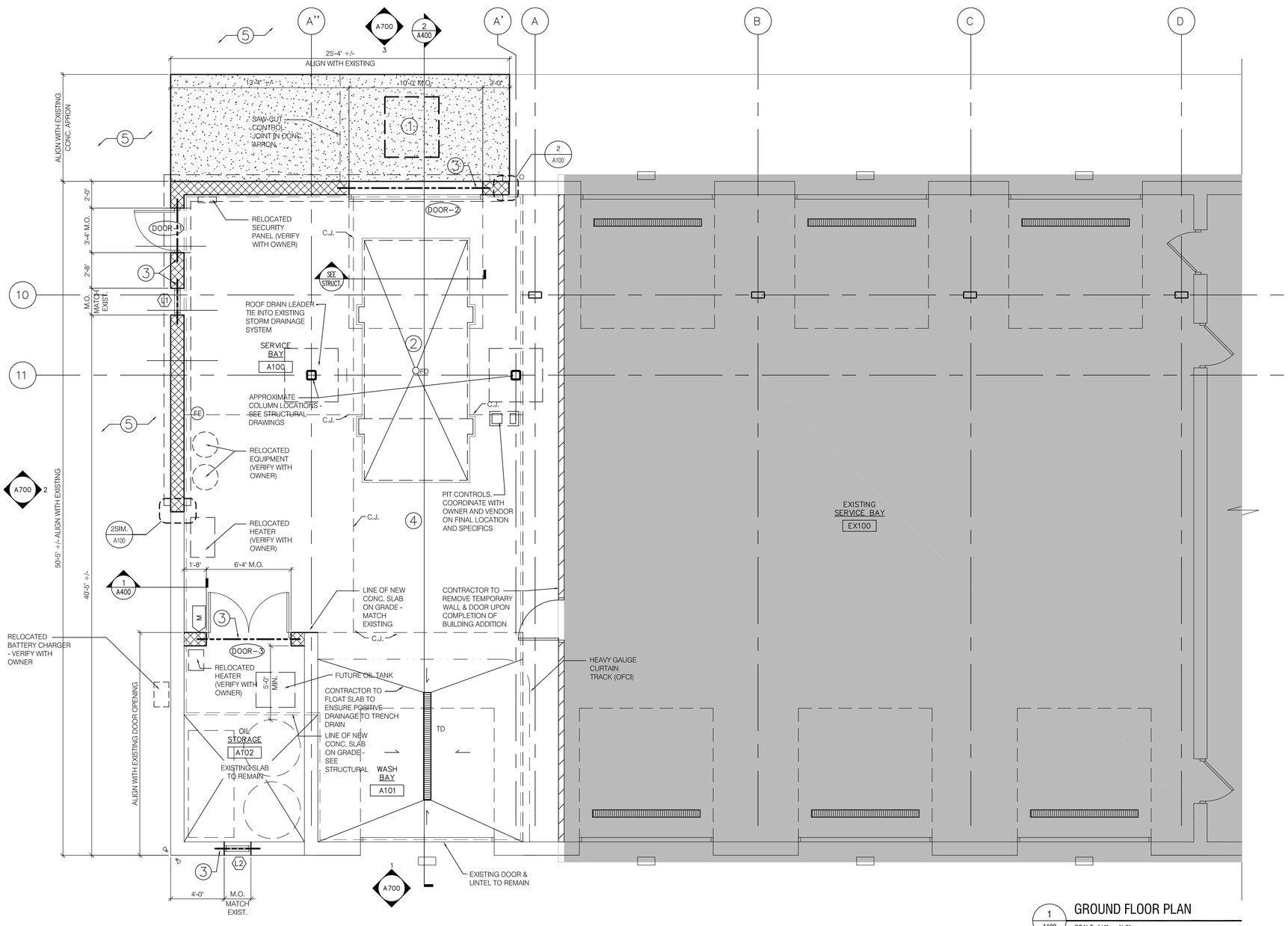


DOOR NOTES

1) DOOR TO BE SALVAGED AND RELOCATED. PROVIDE NEW ANODIZED, ALUMINUM FRAME WITH FINNISH TO MATCH EXISTING. VERIFY IN FIELD
2) EXISTING OVERHEAD DOOR TO BE RELOCATED. COORDINATE OPENING REQUIREMENTS WITH VENDOR AND OWNER. INSTALL OVERHEAD DOOR PER MANUFACTURER'S RECOMMENDATIONS.
3) REUSE HARDWARE FROM EXISTING DOUBLE DOOR IF POSSIBLE. PROVIDE HARDWARE AS SCHEDULED IF NEW HARDWARE IS REQUIRED



2 / A100 CONTROL JOINT DETAIL
SCALE: 1-1/2" = 1'-0"



1 / A100 GROUND FLOOR PLAN
SCALE: 1/4" = 1'-0"

SYMBOLS

- EXISTING CONSTRUCTION TO REMAIN
- NEW CONSTRUCTION
- NEW DOOR OPENING WITH DOOR SYMBOL; XXXX SEE DOOR SCHEDULE SHEET AX.XX
- EXISTING DOOR TO REMAIN
- XXXX / XXX ROOM NUMBER - SEE ROOM FINISH SCHEDULE SHEET AX.XX
- X / AXX DETAIL REFERENCE: DETAIL NUMBER (TOP) SHEET NUMBER (BOTTOM)
- AX.XX / X ELEVATION REFERENCE: ELEVATION NUMBER (TOP) SHEET NUMBER (BOTTOM)
- L LOUVER - (SEE SCHEDULES FOR MORE INFO)
- FD NEW FLOOR DRAIN
- TD NEW TRENCH DRAIN ASSEMBLY (COMPOSITE MATERIAL)
- OVERHEAD WATERPROOF SCREEN SYSTEM (BY OWNER) INSTALLED (BY G.C.)
- FE WALL MTD. FIRE EXTINGUISHER
- M 12" CMU (60-MIN. FIRE RATING) - PAINTED
- NOT IN SCOPE OF WORK

KEYNOTES

1. PROVIDE IN-SLAB DOOR OPENING SENSOR. COORDINATE WITH VENDOR. COORDINATE POWER / CONDUIT REQUIREMENTS WITH VENDOR
2. COORDINATE LIFT PIT CONSTRUCTION, LOCATION, AND POWER REQUIREMENTS WITH VENDOR. COORDINATE CONTROL HUB LOCATION WITH OWNER. REFER TO STRUCTURAL DRAWINGS FOR PIT DIMENSIONS AND CONSTRUCTION. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FLOAT SLAB FOR POSITIVE DRAINAGE
3. PROVIDE BOND BEAM PER STRUCTURAL DWG'S
4. NEW SLAB TO BE SEALED AND COATED WITH APPROPRIATE EPOXY FLOORING PRODUCT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
5. SLOPE NEW SITE WORK / ASPHALT FOR POSITIVE DRAINAGE TO EXISTING STORM SYSTEM

ARCHITECTURAL NOTES

1) ALL DIMENSIONS TO BE TAKEN FROM FINISHED FACE OF MASONRY OF WALL UNLESS INDICATED OTHERWISE
2) COORDINATE NEW DATA & POWER LOCATIONS WITH OWNER
3) CONTRACTOR SHALL PROVIDE BLOCKING AS REQUIRED FOR ALL EQUIPMENT INSTALLATION
4) FURNITURE AND EQUIPMENT TO BE PROVIDED BY OWNER. VERIFY FINAL LOCATION AND REQUIREMENTS OF ALL EQUIPMENT WITH OWNER
5) PATCH ALL EXISTING WALLS AS REQUIRED; PREPARE ALL WALLS FOR PAINT
6) REPAINT ALL EXISTING WALLS WITHIN SERVICE BAY. COORDINATE PAINT TYPE & COLOR SELECTION WITH OWNER

N

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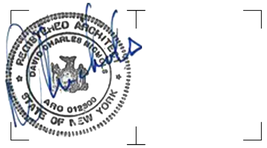

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SERVICE BAY ADDITION & ALTERATION

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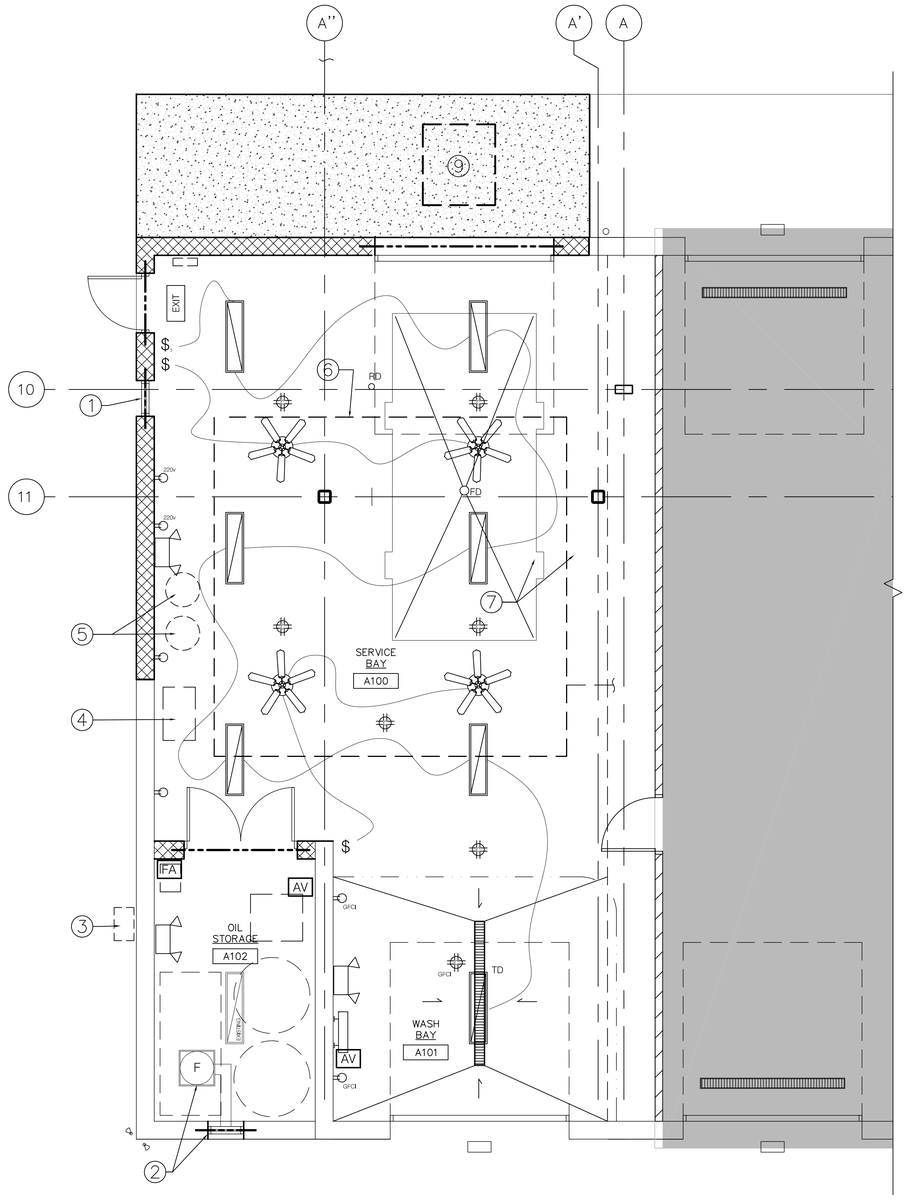
REVISIONS		

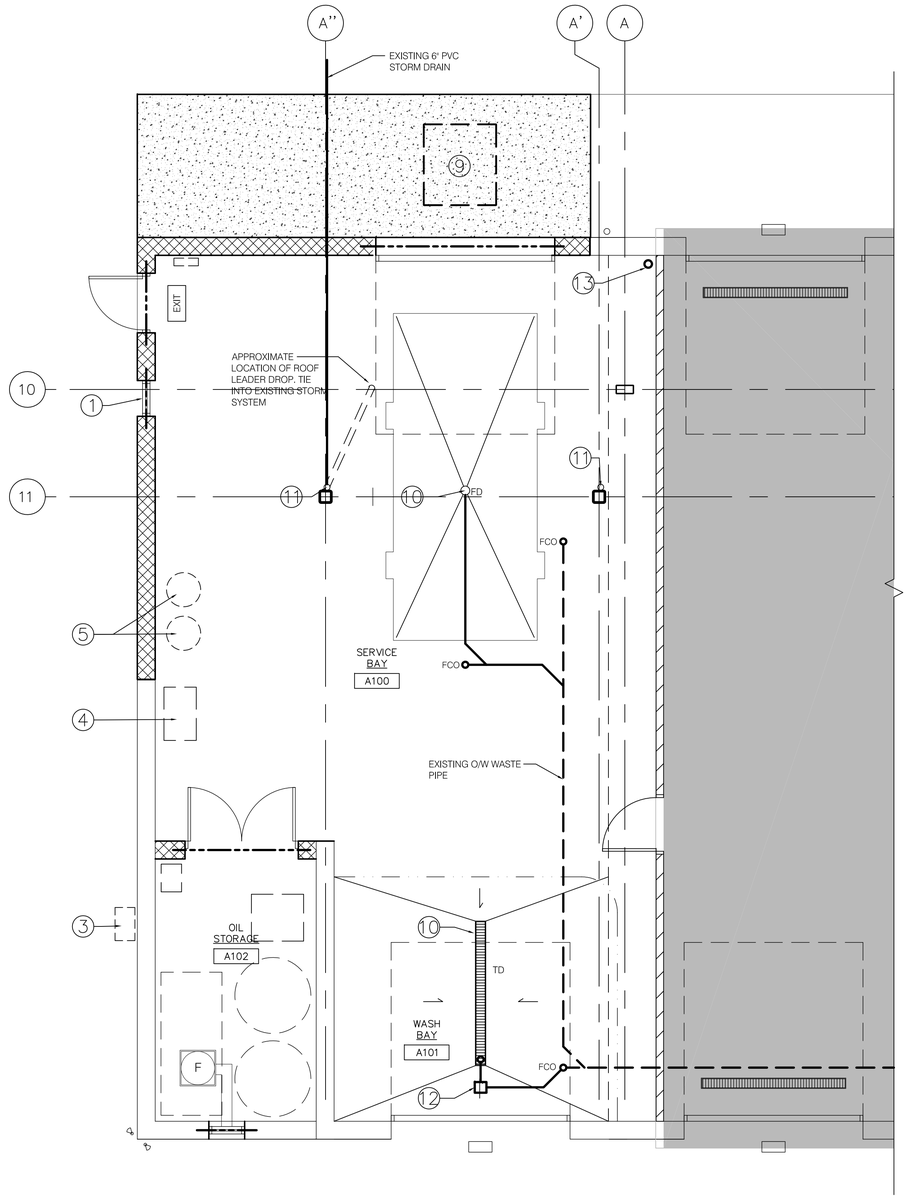
PROJECT NUMBER: 2171059
DRAWN BY: CD
REVIEWED BY: SM
ISSUED FOR: CONSTRUCTION
ISSUED DATE: 5/17/2017
DRAWING NAME: GROUND FLOOR PLAN
DRAWING NUMBER: A100



1 A101 MECHANICAL / ELECTRICAL SCHEMATIC PLAN

SCALE: 1/4" = 1'-0"

NOTE: THIS DRAWING IS FOR REFERENCE ONLY AND FOR STRICTLY COORDINATION PURPOSES WITH OWNER.



2 A101 PLUMBING SCHEMATIC PLAN

SCALE: 1/4" = 1'-0"

NOTE: THIS DRAWING IS FOR REFERENCE ONLY AND FOR STRICTLY COORDINATION PURPOSES WITH OWNER.

SYMBOLS

$	TWO-WAY SWITCH
$3	THREE-WAY SWITCH
	110v RECEPTACLE (MIN 36" A.F.F.) UNLESS NOTED OTHERWISE COORDINATE HEIGHT A.F.F. W/ OWNER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER (MIN. 36" A.F.F.) UNLESS OTHERWISE NOTED OTHERWISE COORDINATE HEIGHT A.F.F. W/OWNER
	110v CEILING MOUNTED QUAD RECEPTACLE (MIN. 36" A.F.F.) UNLESS OTHERWISE NOTED OTHERWISE COORDINATE HEIGHT A.F.F. W/OWNER
F	EXHAUST FAN FULLY DUCTED TO EXTERIOR
EXIT	WALL MOUNTED EXIT LIGHT
	BATTERY POWERED EMERGENCY LIGHT
	LIGHT FIXTURES TO MATCH EXISTING COORDINATE W/OWNER
	WALL MOUNTED FIXTURE - COORDINATE W/ OWNER
FCO	FLOOR CLEANOUT
AV	AUDIBLE VISUAL FIRE ALARM DEVICE
FA	FIRE ALARM PULL STATION
EXIT	EXIT SIGNAGE

KEYNOTES

1. RELOCATE OPERABLE LOUVER SYSTEM AND HUMIDISTAT
2. PROVIDE NEW LOUVER SYSTEM TO MATCH EXISTING. PROVIDE IN-LINE DUCT FAN SUFFICIENT TO EXHAUST ROOM. WIRE FAN TO THERMOSTAT
3. RELOCATE BATTERY CHARGING SYSTEM. CONSULT OWNER ON EXACT LOCATION
4. RELOCATE ONE OF THE TWO HEATING SYSTEMS IN THE EXISTING SERVICE BAY. RELOCATE ALL CONTROLS, WIRING, AND ACCESSORIES.
5. RELOCATE TIRE CHANGER AND TIRE BALANCER. COORDINATE WITH OWNER ON EXACT LOCATION
6. TIE INTO EXISTING AIR SYSTEM. COORDINATE WITH OWNER ON ALL AIR DROP LOCATIONS
7. PROVIDE NECESSARY CONTROL CONDUIT / WIRING FOR ALIGNMENT PIT CONTROLS
8. PROVIDE NECESSARY CONTROL CONDUIT / WIRING FOR ALIGNMENT PIT CONTROLS
9. CONTRACTOR TO COORDINATE WITH DOOR OPENING SENSOR VENDOR PRIOR TO SLAB POUR
10. TIE INTO EXISTING STORM DRAIN (ENSURE PIPING LEADS TO OIL SEPARATOR)
11. TIE ROOF DRAINS INTO EXISTING STORM DRAINS
12. PROVIDE AND INSTALL CATCH BASIN / CLEANOUT AND TIE-INTO EXISTING FCO.
13. PROVIDE HOSE BIB AT THIS LOCATION. MATCH HOSE BIB STYLE AND PLUMBING REQUIREMENTS WITH EXISTING

HVAC NOTES

1) RELOCATE AND INSTALL ALL HVAC EQUIPMENT PER CODE. CONSULT OWNER ON HVAC EQUIPMENT TO BE RELOCATED

PLUMBING NOTES

1) ALL UNDER SLAB SANITARY LINES TO BE CAST IRON, OR SCHEDULE 80 PVC
2) CONTRACTOR TO VERIFY COMPLIANT VENTING IS INSTALLED IN PLUMBING SYSTEM. VENTING SHALL BE INSTALLED IN (2) REMOTE LOCATIONS OF NEW PLUMBING WORK AS REQUIRED.

ELECTRICAL NOTES

1) ALL ELECTRICAL DEVICES SHALL BE WIRED PER APPLICABLE CODE & INSPECTED
2) RECEPTACLE AND SWITCH LOCATIONS SHOWN AS REFERENCE ONLY. COORDINATE W/OWNER & TENANT
3) INSTALL ALL DEVICES PER MANUFACTURER'S RECOMMENDATIONS
4) COORDINATE DATA DROP LOCATIONS W/OWNER & TENANT

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3875 WEST HENRIETTA ROAD
ROCHESTER, NY 14623

SERVICE BAY ADDITION & ALTERATION

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NO:	DATE:	DESCRIPTION:
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REVISIONS		

PROJECT NUMBER: 2171059

DRAWN BY: CD

REVIEWED BY: SM

ISSUED FOR: CONSTRUCTION

ISSUED DATE: 5/17/2017

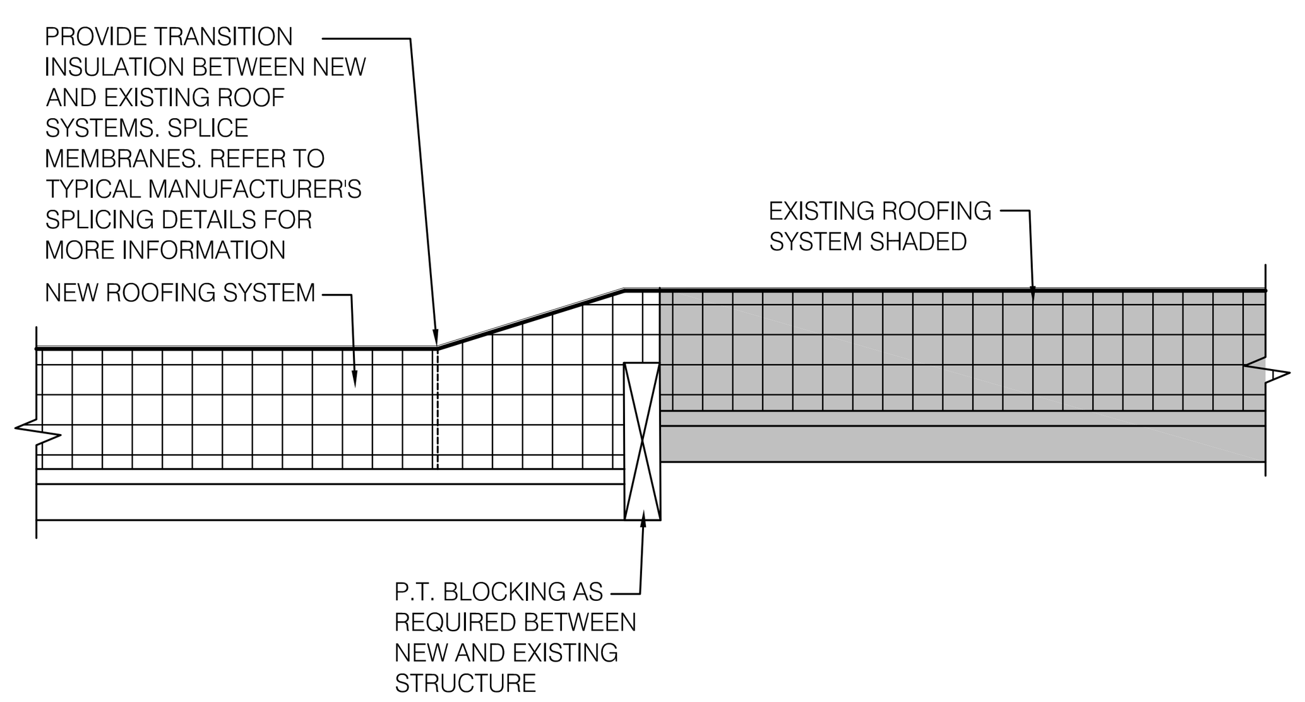
DRAWING NAME:

MEP SCHEMATIC PLANS (REFERENCE ONLY)

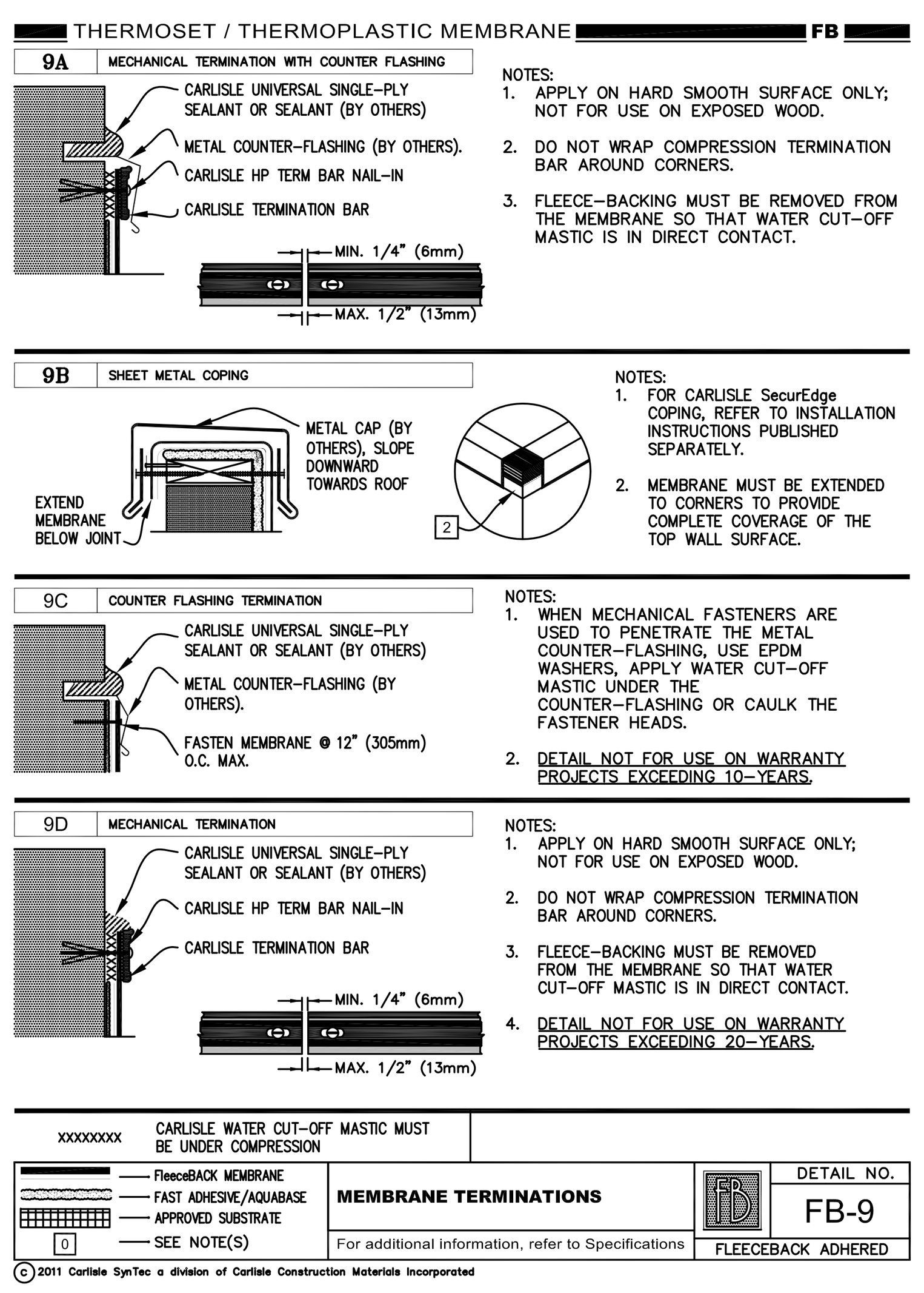
DRAWING NUMBER:

A101

Date & Time: 5/17/2017 11:14 AM By: z
Path: J:\NJ Dorschel Corp\2171059 - Mini Cooper Dealer Addition\Drawings\Arch\3-CD\A101 - MEP Plan 2171059.dwg



7 / A200 ROOFING TRANSITION DETAIL
SCALE: NTS



6 / A200 MEMBRANE TERMINATION DETAIL
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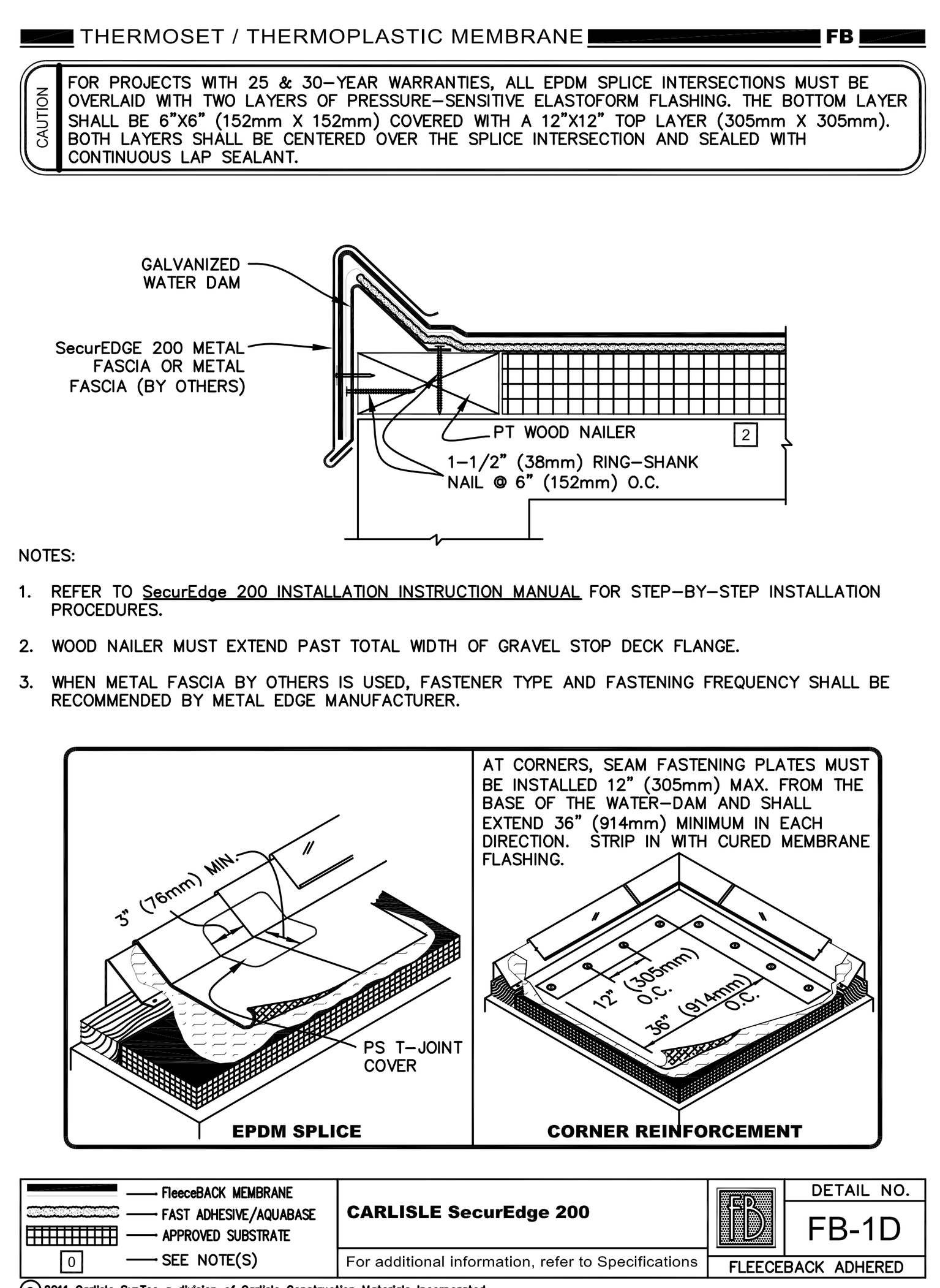
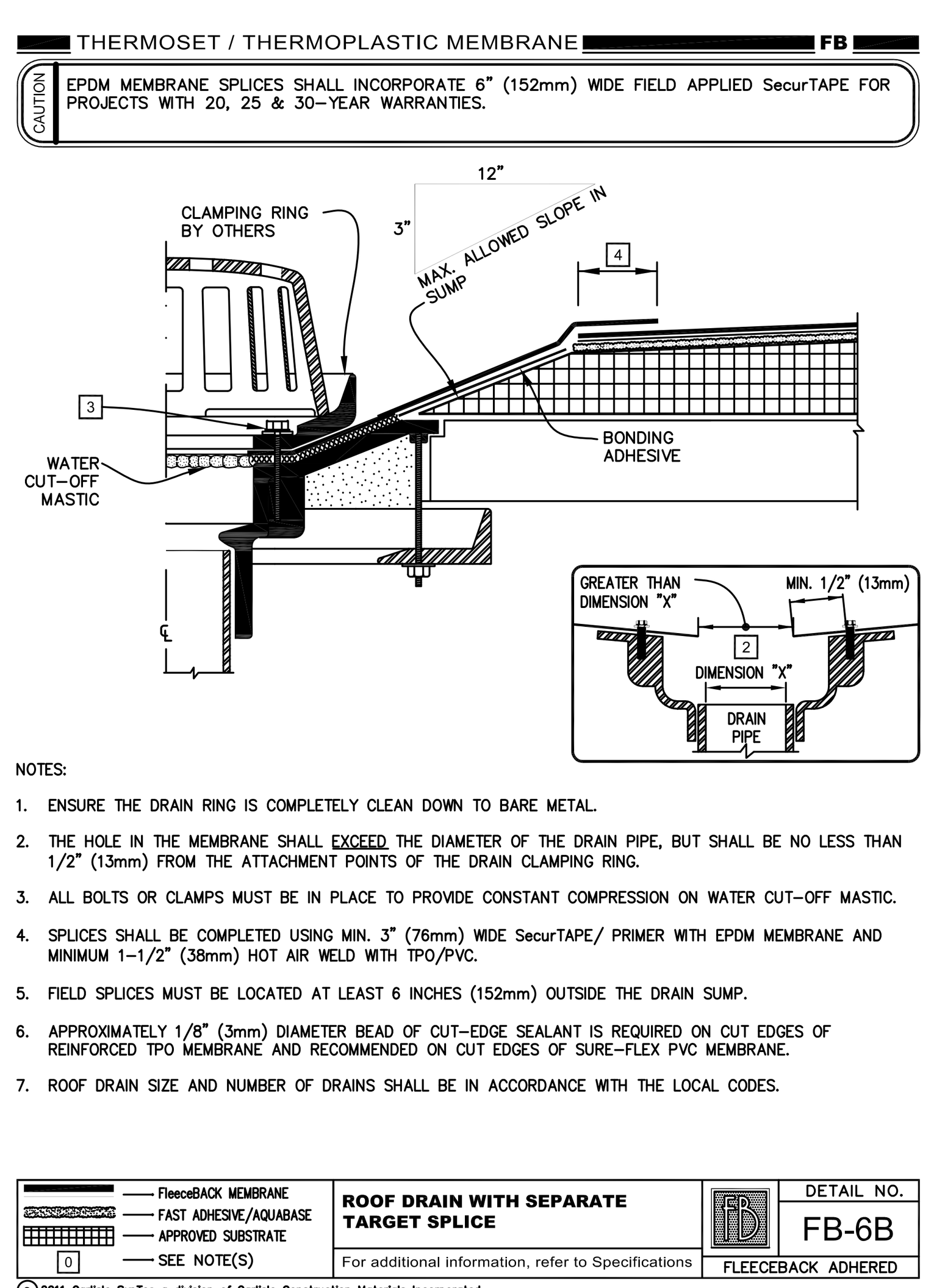
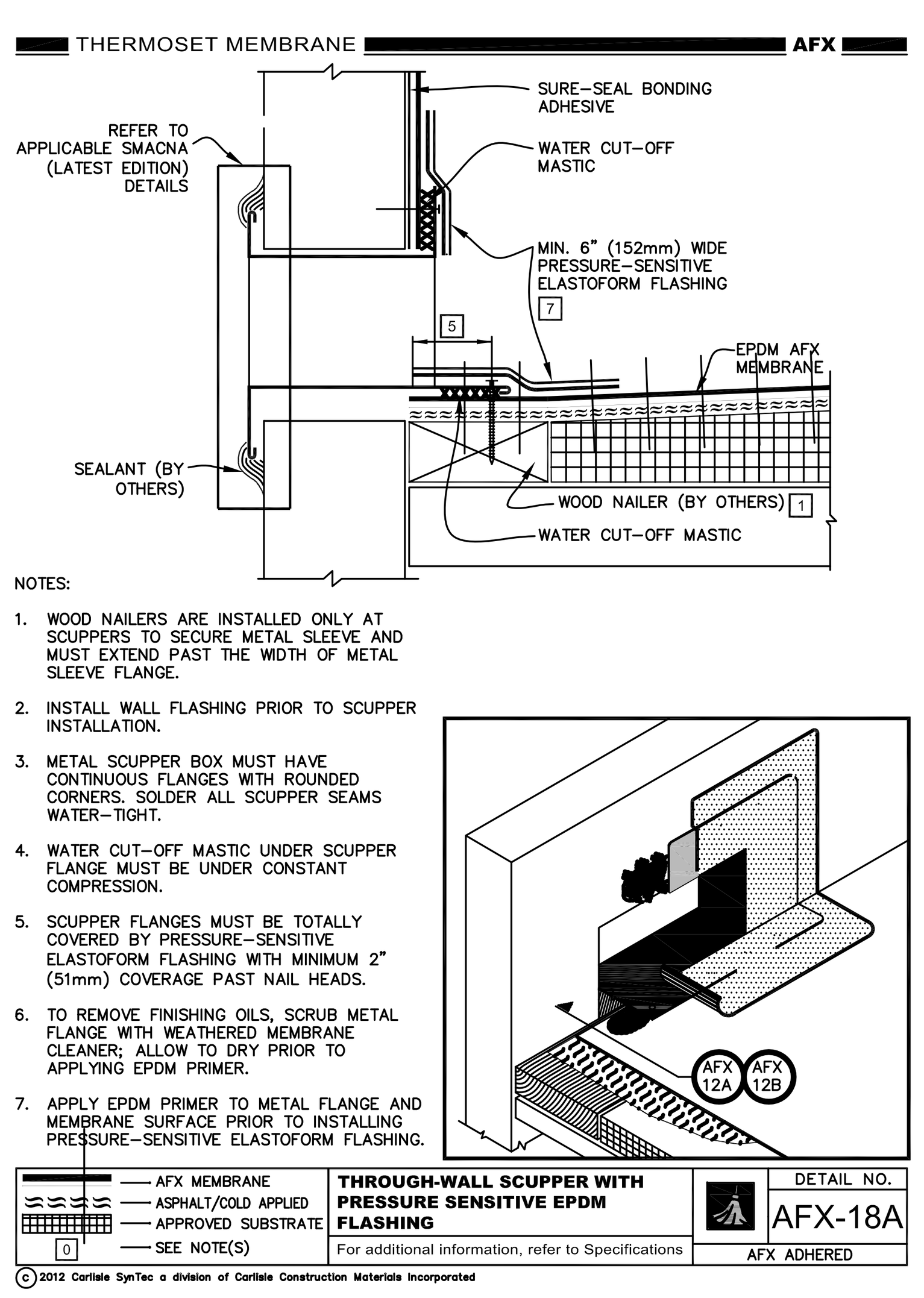


5 / A200 GRAVEL STOP DETAIL
SCALE: NTS



4 / A200 ROOF DRAIN DETAIL
SCALE: NTS



3 / A200 SCUPPER DRAIN DETAIL
SCALE: NTS

SYMBOLS

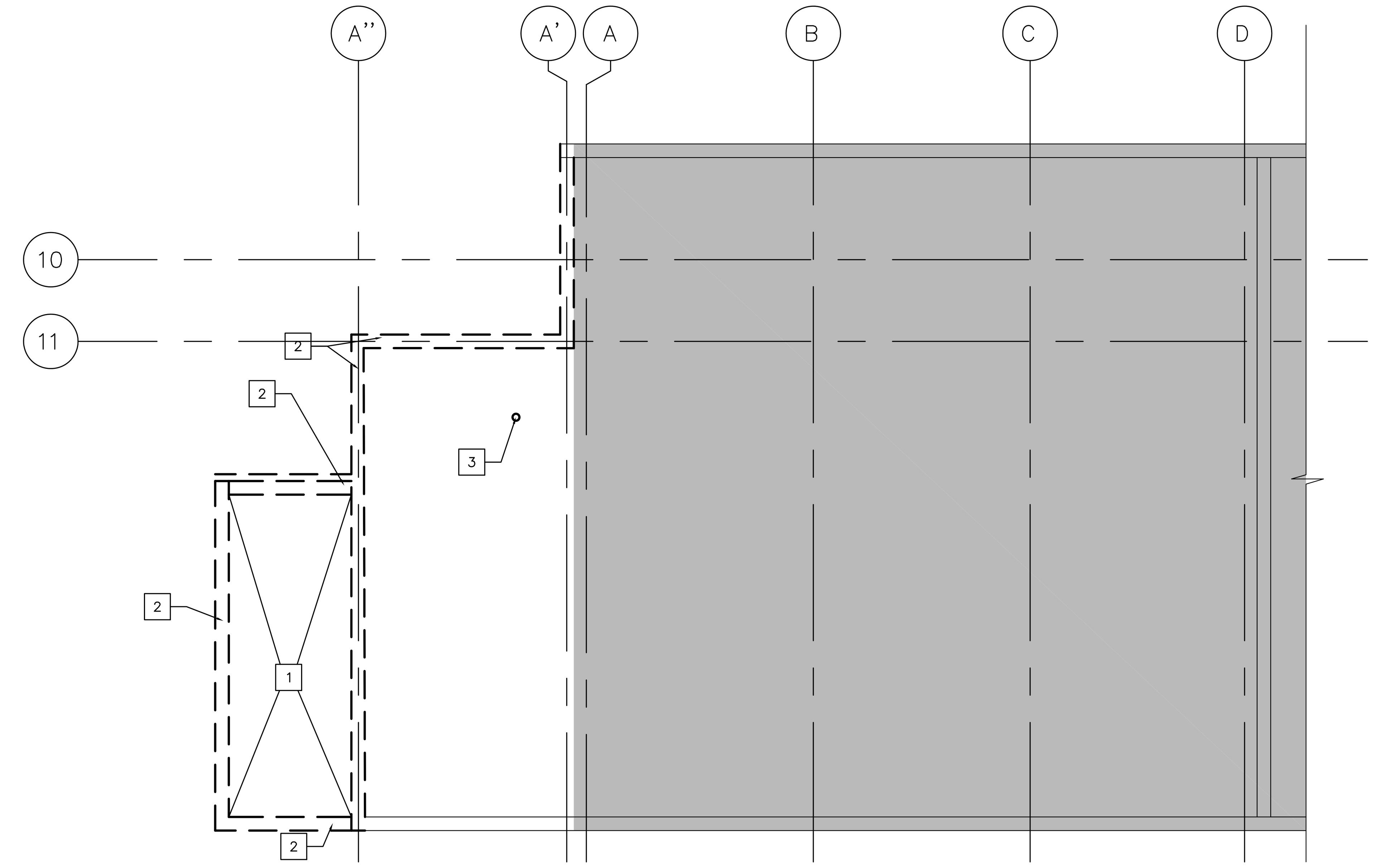
- [1] REMOVE EXISTING ROOFING JOISTS, DECKING, AND MEMBRANE
- [2] REMOVE EXISTING ALUMINUM COPING & BLOCKING DOWN TO MASONRY BLOCK WALL. PREPARE TOP OF MASONRY FOR NEW COURSING. REFER TO EXTERIOR ELEVATIONS & ROOF PLAN FOR MORE INFORMATION
- [3] REMOVE EXISTING FURNACE VENT

GENERAL NOTES

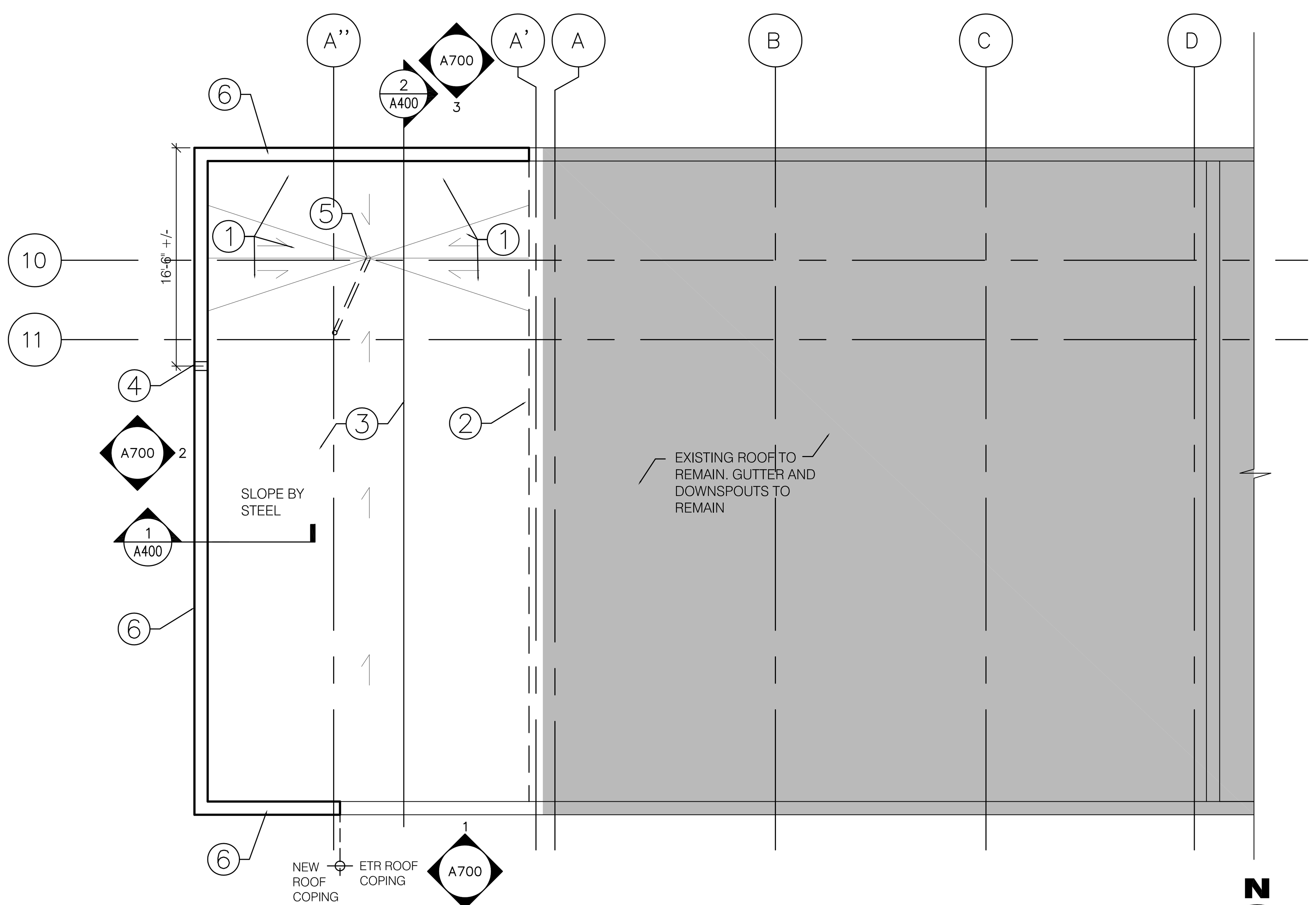
1. PROVIDE TAPERED INSULATION TO DIRECT WATER TO NEW ROOF DRAIN (MIN. 1/4" PER 1'-0" SLOPE)
2. PROVIDE TAPERED INSULATION INFILL BETWEEN NEW AND EXISTING ROOFING SURFACES TO ALIGN ROOFING MEMBRANES. REFER TO 7/A200 FOR MORE INFORMATION
3. PROVIDE NEW WHITE MEMBRANE ROOFING SYSTEM. REFER TO SPECIFICATION FOR MORE INFORMATION
4. PROVIDE NEW ALUMINUM THOUGH WALL SCUPPER, COLLECTION BOX, AND DOWNSPOUT. FINISH TO MATCH EXISTING BUILDING COPING. REFER TO 1/A400 AND 3/A200 FOR MORE INFORMATION
5. PROVIDE ROOF DRAIN. REFER TO DETAILS FOR MORE INFORMATION
6. PROVIDE NEW ALUMINUM COPING TO MATCH EXISTING BUILDING. NOTE THAT THE SOUTH ELEVATION COULD BE A GRAVEL STOP CONDITION BASED ON EXISTING STRUCTURE HEIGHTS. CONTRACTOR TO COORDINATE COPING REQUIREMENTS

SYMBOLS

X / XXX — DETAIL REFERENCE: DETAIL NUMBER (TOP) SHEET NUMBER (BOTTOM)



2 / A200 DEMO ROOF PLAN
SCALE: 1/4" = 1'-0"



1 / A200 ROOF PLAN
SCALE: 1/4" = 1'-0"

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REVISIONS

PROJECT NUMBER: 2171059
DRAWN BY: CD
REVIEWED BY: SM
ISSUED FOR: CONSTRUCTION
ISSUED DATE: 5/17/2017
DRAWING NAME: ROOF PLANS & DETAILS
DRAWING NUMBER: A200

Date & Time: 5/17/2017 11:15 AM By: 2
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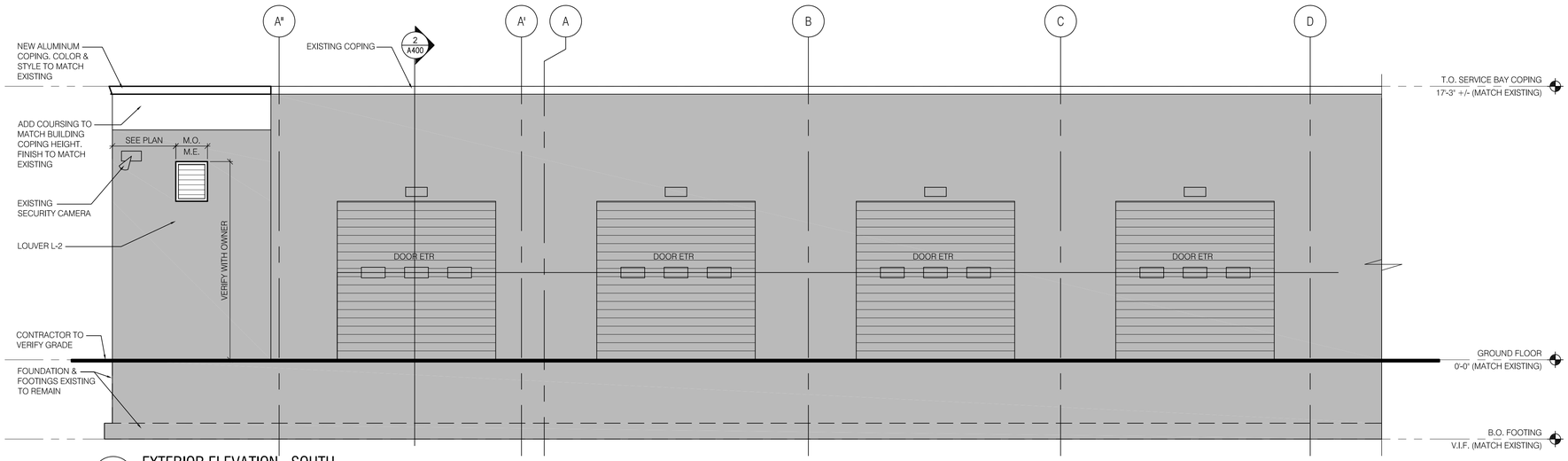
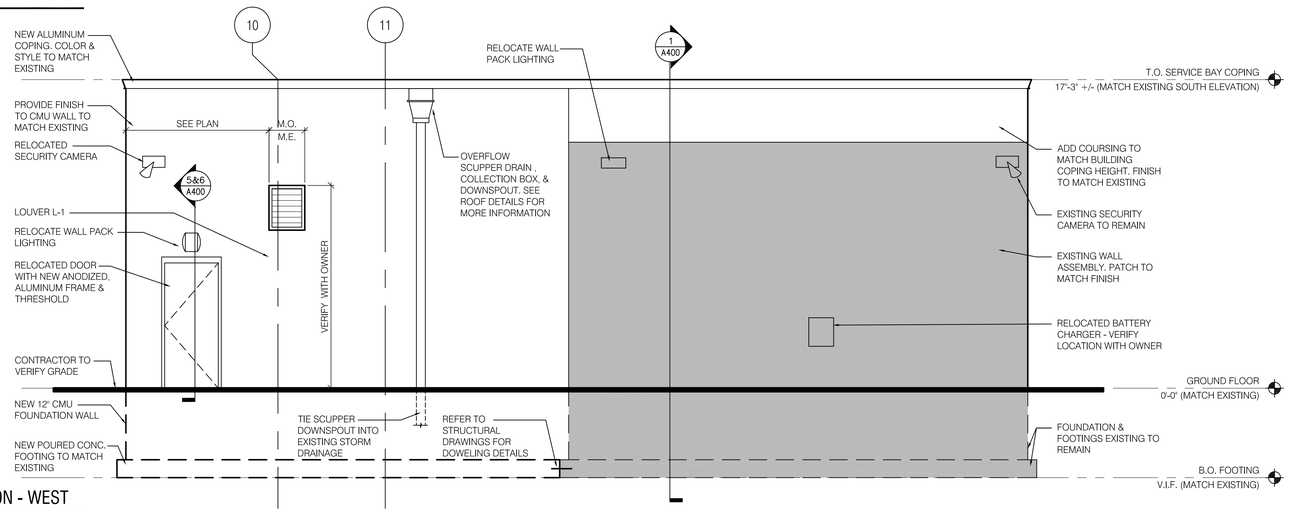


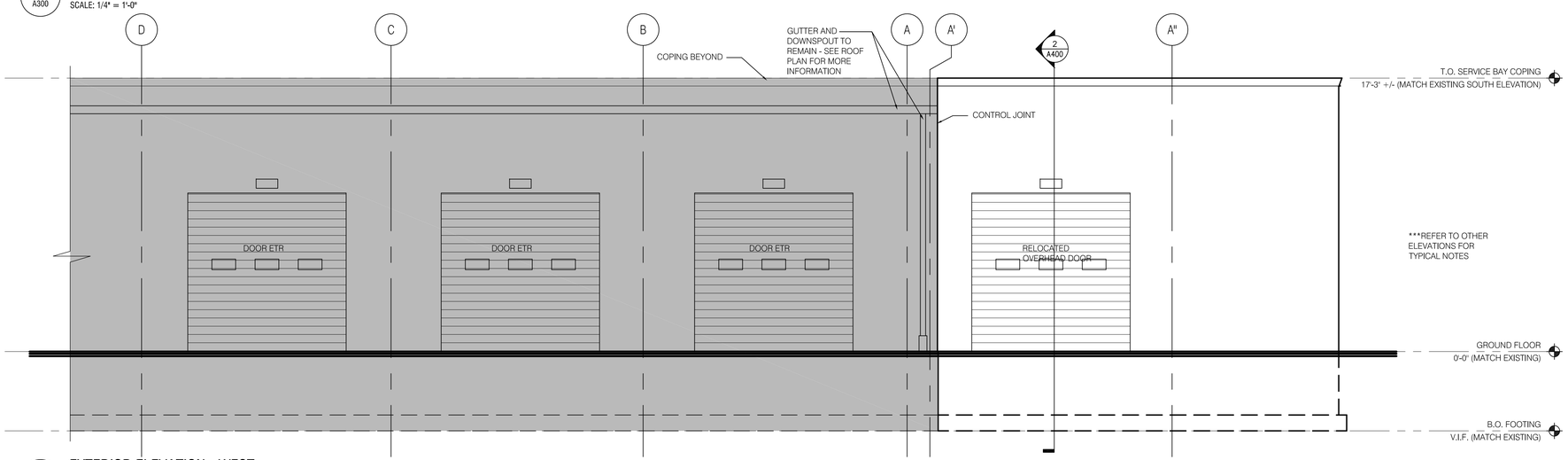
1 A300 **EXTERIOR ELEVATION - SOUTH**

SCALE: 1/4" = 1'-0"



2 A300 **EXTERIOR ELEVATION - WEST**

SCALE: 1/4" = 1'-0"



3 A300 **EXTERIOR ELEVATION - WEST**

SCALE: 1/4" = 1'-0"

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REGISTERED ARCHITECT DAVID CHARLES MINER 040 018500 STATE OF NEW YORK

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REVISIONS

PROJECT NUMBER: 2171059

DRAWN BY: CD

REVIEWED BY: SM

ISSUED FOR: CONSTRUCTION

ISSUED DATE: 5/17/2017

DRAWING NAME:

EXTERIOR ELEVATIONS

DRAWING NUMBER:

A300

Date & Time: 5/17/2017 11:26 AM By: 2
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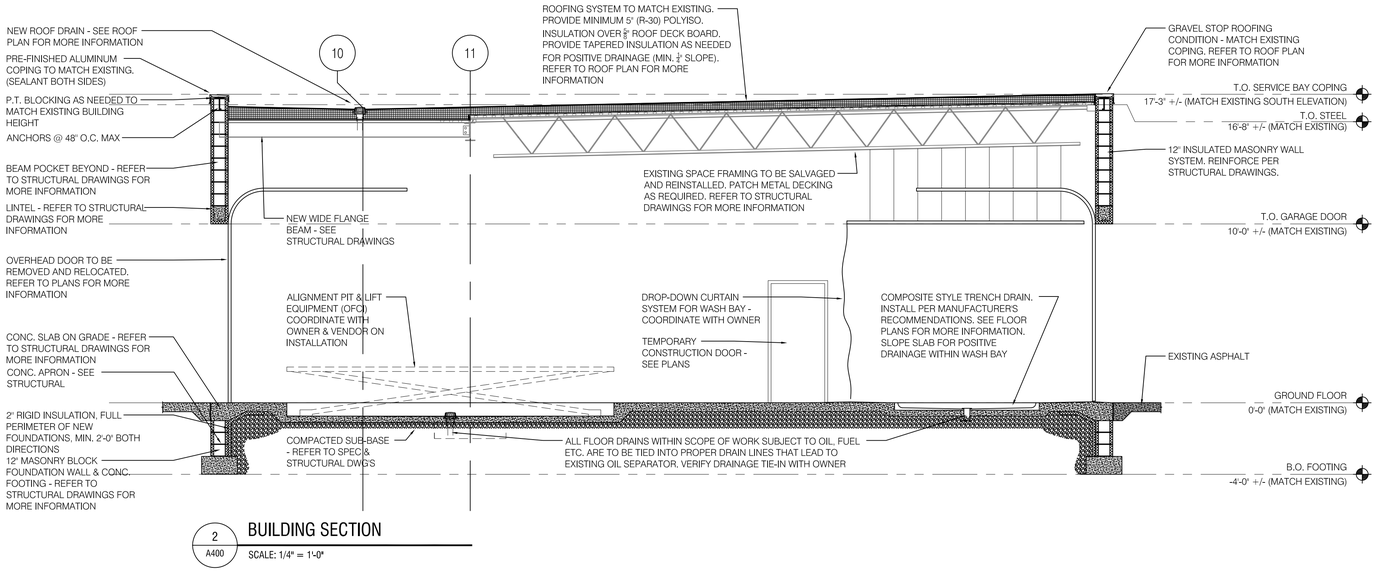
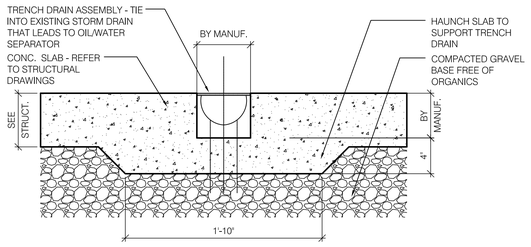
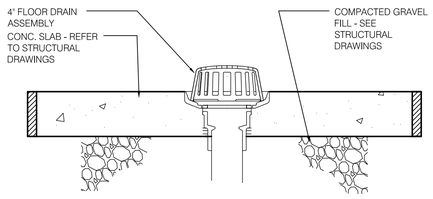


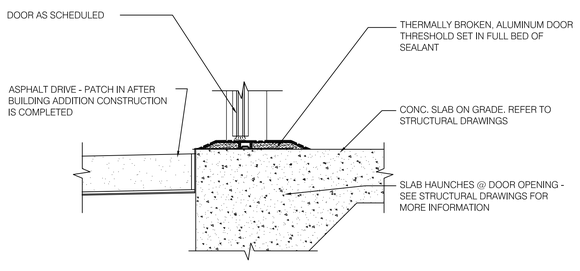
2 / A400 **BUILDING SECTION**
SCALE: 1/4" = 1'-0"



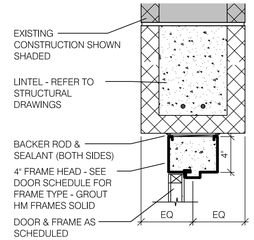
3 / A400 **TRENCH DRAIN DETAIL**
SCALE: 1-1/2" = 1'-0"



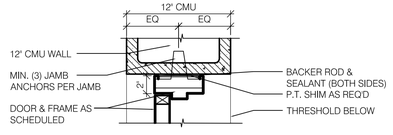
4 / A400 **STANDARD DRAIN DETAIL (IN SLAB)**
SCALE: 1-1/2" = 1'-0"



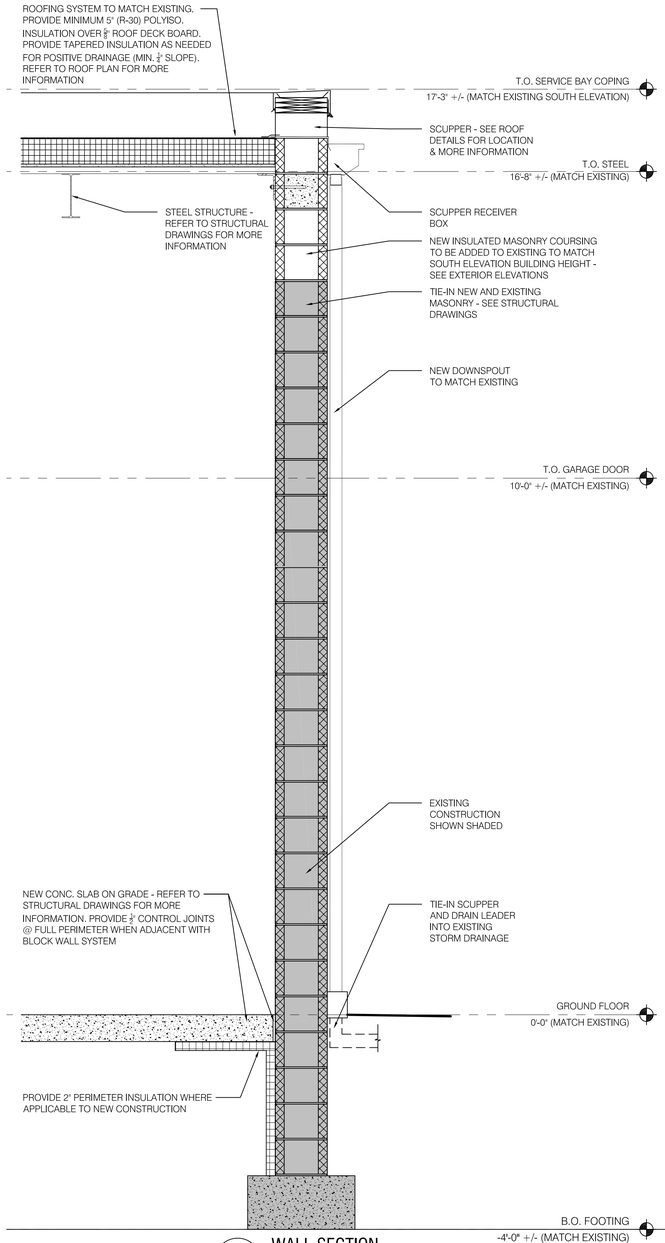
5 / A400 **DOOR THRESHOLD DETAIL**
SCALE: 1-1/2" = 1'-0"



6 / A400 **DOOR HEAD DETAIL**
SCALE: 1-1/2" = 1'-0"



7 / A400 **DOOR JAMB DETAIL**
SCALE: 1-1/2" = 1'-0"



1 / A400 **WALL SECTION**
SCALE: 3/4" = 1'-0"

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REVISIONS		

PROJECT NUMBER: 2171059
DRAWN BY: CD
REVIEWED BY: SM
ISSUED FOR: CONSTRUCTION
ISSUED DATE: 5/17/2017
DRAWING NAME: TBD

BUILDING SECTIONS & SECTION DETAILS

DRAWING NUMBER:

A400

Date & Time: 5/17/2017 11:16 AM By: rz
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GENERAL STRUCTURAL NOTES:

1. BUILDING CODE: APPLICABLE BUILDING CODE. SEE DESIGN CHART.
2. CONSTRUCTION LOADING: DURING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL LIMIT AND CONTROL CONSTRUCTION LOADING, INCLUDING BUT NOT LIMITED TO:
   a. MATERIAL STOCKPILING AND EQUIPMENT TO PRECLUDE OVERSTRESSING, CONSTRUCTION LIVE LOAD IN EXCESS OF 20 PSF, OR DAMAGE TO ANY STRUCTURAL ELEMENT.
3. COORDINATION WITH OTHER DISCIPLINES: THE CONTRACTOR SHALL COORDINATE ALL STRUCTURAL WORK WITH THE ARCHITECTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS AND SPECIFICATIONS.
4. EXISTING CONDITIONS: THE INFORMATION SHOWN ON THESE DOCUMENTS IS THE BEST REPRESENTATION OF EXISTING CONDITIONS AVAILABLE TO THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY AND BRING TO THE ENGINEER'S AND CONSTRUCTION MANAGER'S ATTENTION ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
5. EXISTING STRUCTURES: ALL EXISTING STRUCTURES ADJACENT TO NEW WORK ARE TO BE ADEQUATELY PROTECTED AND/OR SUPPORTED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY NEW OR EXISTING CONSTRUCTION DAMAGED WHILE WORK IS IN PROGRESS.
6. OPENINGS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SIZE AND LOCATION OF ALL OPENINGS IN NEW AND EXISTING CONSTRUCTION WITH THE DISCIPLINE REQUIRING THEM.

FOUNDATION NOTES:

1. GEOTECHNICAL INFORMATION USED PER RECORD DOCUMENTS. ALLOWABLE BEARING PRESSURE = 3,000 PSF.
2. TAKE ALL NECESSARY PRECAUTIONS WHEN EXCAVATING OR DRILLING ADJACENT TO EXISTING STRUCTURES TO AVOID DISTURBING EXISTING FOUNDATIONS. DO NOT EXCAVATE BELOW EXISTING FOUNDATIONS. CONTACT THE ENGINEER IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN ON THE DRAWING.
3. ALL EXCAVATIONS SHALL FULLY CONFORM TO LOCAL, STATE AND FEDERAL SAFETY REGULATIONS.
4. DO NOT BACKFILL AGAINST CONCRETE ELEMENTS UNTIL PLACED CONCRETE HAS REACHED 75% OF ITS SPECIFIED 28-DAY COMPRESSIVE STRENGTH.
5. BACKFILL BOTH SIDES OF FOUNDATION WALLS IN EQUAL, ALTERNATE LIFTS IN ORDER TO AVOID IMPOSING UNBALANCED LATERAL PRESSURE ON THE WALLS.
6. ALLOW TESTING AGENCY TO INSPECT AND APPROVE ALL COMPACTED SUBGRADE AND FILL LAYERS PRIOR TO FURTHER BACKFILL AND/OR PLACEMENT OF CONCRETE. TESTING AND INSPECTION RESULTS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER.
7. THE SUITABILITY AND STABILITY OF EXISTING SOILS AND FILL, THE DEPTHS AND LATERAL LIMITS OF UNSUITABLE MATERIAL TO BE REMOVED, AND ADEQUACY OF FOUNDATION BEARING GRADES SHALL BE DETERMINED BY THE PROJECT GEOTECHNICAL ENGINEER.
8. BACKFILL AND FILL MATERIALS SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY ACCORDING TO THE MODIFIED PROCTOR TEST (ASTM D-1557). ALL EXISTING BACKFILL SHALL BE RECOMPACTED AS SUCH.
9. EXCAVATION AND BACKFILL OPERATIONS SHALL BE MAINTAINED IN A DRY CONDITION. SURFACE AND INFILTRATING WATER SHALL BE REMOVED BY SITE GRADING AND/OR BY PUMPING FROM SUMPS AS REQUIRED.

CONCRETE NOTES:

1. PROVIDE THE FOLLOWING MINIMUM CONCRETE CLEAR COVER FOR REINFORCING STEEL, UNLESS OTHERWISE NOTED.:
   a. CONCRETE PLACED AGAINST EARTH: 3.0 IN.
   b. FORMED SURFACES IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
   #6 THROUGH #18 BARS: 2.0 IN.
   #5 BARS AND SMALLER: 1.5 IN.
   c. FORMED SURFACES NOT IN CONTACT WITH EARTH OR EXPOSED TO WEATHER
   #14 AND #18 BARS: 1.5 IN.
   #11 BARS AND SMALLER: 1.0 IN.
2. ALL CONCRETE WORK, CONSTRUCTION, AND REINFORCING DETAILS SHALL CONFORM TO THE APPLICABLE BUILDING CODE.
3. ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318.
4. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
5. ALL REINFORCING SHALL BE LAPPED OR EMBEDDED IN ACCORDANCE WITH ACI 318, UNLESS OTHERWISE NOTED.
6. PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING AT CORNERS OR INTERSECTIONS.
7. CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE.
8. PRIOR TO PLACEMENT OF CONCRETE, A FIELD REPRESENTATIVE SHALL BE INFORMED A MINIMUM OF 24 HOURS IN ADVANCE OF PLACEMENT, TO ALLOW INSPECTION OF REINFORCING STEEL, AND PREPARATION FOR TAKING CONCRETE SAMPLES. INDEPENDENT TESTS ARE REQUIRED FOR ALL CONCRETE PLACEMENTS.
9. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO THE SCHEDULED CONCRETE PLACEMENT.
10. VAPOR BARRIER: POLYETHYLENE SHEET, ASTM D 4397, NOT LESS THAN 15-MIL. LOCATED BELOW INTERIOR SLABS-ON-GRADE.
11. SYNTHETIC MACRO-FIBER:POLYPROPYLENE MACRO-FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE, COMPLYING WITH ASTM C 1116/C 1116M, TYPE III.
12. PROTECT CONCRETE FROM PREMATURE DRYING IMMEDIATELY AFTER PLACEMENT. CURING OF CONCRETE SLABS MUST START WITHIN 2 HOURS AFTER FINISHING OPERATIONS ARE COMPLETE. SLABS-ON-GRADE SHALL BE WET CURED FOR 7 DAYS. CURING COMPOUNDS ARE PROHIBITED.
13. SLABS-ON-GRADE SHALL HAVE CONTROL JOINTS AS SHOWN ON PLANS. SAW CUT JOINTS SHALL BE MADE WITHIN 12 HOURS OF PLACING SLAB. AFTER CONCRETE IS CURED AND READY FOR PLACEMENT OF FLOOR FINISH, ALL SLABS INSIDE THE BUILDING SHALL HAVE CONTROL JOINTS FILLED WITH APPROVED JOINT FILLER.
14. CONCRETE SHALL BE CONTROLLED, PROPORTIONED, MIXED AND PLACED IN THE PRESENCE OF A REPRESENTATIVE OF AN APPROVED TESTING AGENCY.
15. CONDUIT OR PIPES SHALL BE PLACED UNDER SLABS-ON-GRADE.
16. ALUMINUM CONDUITS OR PIPES SHALL NOT BE PLACED IN CONCRETE.

CONCRETE MIX NOTES:

1. SUBMIT MIX DESIGNS FOR REVIEW AND APPROVAL.
2. FOOTINGS: PROPORTION NORMAL-WEIGHT CONCRETE MIXTURE AS FOLLOWS:
   a. MINIMUM COMPRESSIVE STRENGTH: 4500 PSI AT 28 DAYS.
   b. MAXIMUM WATER-CEMENTITOUS MATERIALS RATIO: 0.45.
   c. SLUMP LIMIT: 4 INCHES PLUS OR MINUS 1 INCH. IF ADMIXTURES ARE USED TO IMPROVE WORKABILITY, THE MAXIMUM SLUMP LIMITS MAY BE RELAXED WITH ENGINEER'S APPROVAL.
   d. AIR CONTENT: 4.5 PERCENT PLUS OR MINUS 1.5 PERCENT, AT POINT OF DELIVERY.
   e. COURSE AGGREGATE: 1-INCH NOMINAL MAXIMUM AGGREGATE SIZE.
3. INTERIOR SLABS-ON-GRADE: PROPORTION NORMAL-WEIGHT CONCRETE MIXTURE AS FOLLOWS:
   a. MINIMUM COMPRESSIVE STRENGTH: 3500 PSI AT 28 DAYS.
   b. MINIMUM CEMENTITIOUS MATERIALS CONTENT: 470 LB/CU. YD.
   c. SLUMP LIMIT: 4 INCHES PLUS OR MINUS 1 INCH. IF ADMIXTURES ARE USED TO IMPROVE WORKABILITY, THE MAXIMUM SLUMP LIMITS MAY BE RELAXED WITH ENGINEER'S APPROVAL.
   d. AIR CONTENT: DO NOT ALLOW AIR CONTENT OF TROWELED FINISHED FLOORS TO EXCEED 3 PERCENT.
   e. COURSE AGGREGATE: 1.5 INCH NOMINAL MAXIMUM AGGREGATE SIZE.
   f. SYNTHETIC MACRO-FIBER: UNIFORMLY DISPERSE IN CONCRETE MIXTURE AT MANUFACTURER'S RECOMMENDED RATE, BUT NOT LESS THAN A RATE OF 5.0 LB/CU. YD.
4. EXTERIOR CONCRETE: PROPORTION NORMAL-WEIGHT CONCRETE MIXTURE AS FOLLOWS:
   a. MINIMUM COMPRESSIVE STRENGTH: 5000 PSI AT 28 DAYS.
   b. MAXIMUM WATER-CEMENTITIOUS MATERIALS RATIO: 0.40.
   c. SLUMP LIMIT: 4 INCHES PLUS OR MINUS 1 INCH. IF ADMIXTURES ARE USED TO IMPROVE WORKABILITY, THE MAXIMUM SLUMP LIMITS MAY BE RELAXED WITH ENGINEER'S APPROVAL.
   d. AIR CONTENT: 6 PERCENT PLUS OR MINUS 1.5 PERCENT, AT POINT OF DELIVERY.
   e. COURSE AGGREGATE: 1-INCH NOMINAL MAXIMUM AGGREGATE SIZE.
   f. SYNTHETIC MACRO-FIBER: UNIFORMLY DISPERSE IN CONCRETE MIXTURE AT MANUFACTURER'S RECOMMENDED RATE, BUT NOT LESS THAN A RATE OF 5.0 LB/CU. YD.

MASONRY NOTES:

1. MASONRY CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES" (ACI-530).
2. ALL CONCRETE BLOCK SHALL CONFORM TO ASTM-C90. PROVIDE NORMAL WEIGHT UNITS WITH MINIMUM AVERAGE NET-AREA COMPRESSIVE STRENGTH OF 2800 PSI.
3. MORTAR FOR UNIT MASONRY: COMPLY WITH ASTM C 270. PROVIDE THE FOLLOWING TYPES OF MORTAR FOR APPLICATIONS BELOW:
   a. FOR REINFORCED MASONRY, USE TYPE M.
   b. FOR MASONRY BELOW GRADE OR IN CONTACT WITH EARTH, USE TYPE M.
   c. FOR INTERIOR NONLOAD-BEARING PARTITIONS, USE TYPE N.
4. PLACE GROUT IN ALL REINFORCED CELLS. GROUT SHALL BE PLACED IN LIFTS NOT TO EXCEED 5' - 0" FOR LOW LIFT GROUTING.
5. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING BARS MARKED "CONTINUOUS" SHALL BE LAPPED PER ACI 530. CONSTRUCT LAP SPLICES AND EMBEDMENT LENGTHS PER ACI 530. MAINTAIN A MINIMUM OF 1/2" CLEARANCE BETWEEN REINFORCING BARS AND MASONRY. PROVIDE #5 BARS UNLESS OTHERWISE NOTED.
6. JOINT REINFORCEMENT FACTORY FABRICATED FROM COLD-DRAWN STEEL WIRE, ASTM A 82, LADDER DESIGN, WITH 9 GAGE DEFORMED STEEL WIRE LONGITUDINAL RODS WELDED TO 9 GAGE STEEL WIRE CROSS TIES SPACED 16 INCHES ON CENTER MAXIMUM; WIDTH 1-1/2 TO 2 INCHES LESS THAN TOTAL WALL THICKNESS. FURNISH FACTORY FABRICATED CORNER AND TEE SECTIONS FOR CORNERS AND WALL INTERSECTIONS.
7. DESIGN AND PROVIDE TEMPORARY BRACING OF MASONRY WALLS DURING CONSTRUCTION. BRACING SHALL REMAIN IN PLACE UNTIL PERMANENT SUPPORTING ELEMENTS OF THE STRUCTURE HAVE BEEN CONSTRUCTED. BRACING SHALL FULLY CONFORM TO ALL OSHA REQUIREMENTS.
8. GROUT ALL CELLS OF MASONRY UNITS FOR THE FIRST TWO COURSES ABOVE ALL FOUNDATION WALLS AND SLABS.
9. PROVIDE CORNER BARS WHERE HORIZONTAL REINFORCING MEETS AT A CORNER OR INTERSECTION.
10. PROVIDE REINFORCING BARS AROUND ALL MASONRY OPENINGS. SEE TYPICAL MASONRY DETAILS.
11. ALL MASONRY COURSING SHOWN IN SECTION AND ELEVATION IS SCHEMATIC. MASONRY MAY NEED TO BE CUT AS REQUIRED.
12. CONDUITS, PIPES, AND SLEEVES IN MASONRY SHALL BE NO CLOSER THAN 3 DIAMETERS ON CENTER. ALUMINUM SHALL NOT BE USED.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:
   a. WIDE FLANGE SHAPES:....................ASTM A992
   b. PLATES, BARS AND ANGLES:....................ASTM A36
   c. HOLLOW STRUCTURAL SECTIONS (HSS) - SQUARE OR RECTANGULAR:.........ASTM A500, GRADE B, Fy = 46 KSI
   d. HOLLOW STRUCTURAL SECTIONS (HSS) - ROUND: ....ASTM A500, GRADE B, Fy = 42 KSI
2. BOLTED CONNECTIONS SHALL CONFORM TO THE FOLLOWING:
   HIGH-STRENGTH BOLTS (AS INDICATED ON PLANS)....................ASTM A325, ASTM A490
3. ANCHOR RODS SHALL CONFORM TO THE FOLLOWING:
   ANCHOR RODS (U.O.N.)....................ASTM F1554, GRADE 36, WELDABLE (S1)
4. WELDING ELECTRODES SHALL CONFORM TO THE FOLLOWING:
   AWS SPECIFICATIONS FOR ELECTRODES BASED ON WELDING PROCESS AND THE TYPE AND GRADE OF STEEL. E70XX ELECTRODES (MIN.) FOR FILLET WELDS.
5. ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
6. SHOP FABRICATE TO THE GREATEST EXTENT POSSIBLE BY WELDING INCLUDING BEAM STIFFENERS, COLUMN CAPS AND BASES, HOLES AND CONNECTIONS.
7. FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES UNLESS OTHERWISE NOTED.
8. ERECT ALL STEEL IN ACCORDANCE WITH THE LATEST AISC SPECIFICATIONS.
9. PROVIDE MOMENT AND SHEAR CONNECTIONS AS SHOWN SCHEMATICALLY IN THE DRAWINGS. ALL CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR LOADS SHOWN ON THE PLANS AND SHALL MEET THE CRITERIA SHOWN IN THE TYPICAL DETAILS.
10. PROVIDE TEMPORARY BRACING FOR ALL ERECTED STEEL FRAMING UNTIL ALL CONNECTIONS HAVE BEEN FULLY TIGHTENED OR WELDED.
11. CUTS, HOLES, COPES, ETC., REQUIRED FOR WORK OF THE OTHER TRADES SHALL BE SHOWN ON SHOP DRAWINGS AND MADE IN THE SHOP. FIELD CUTTING OR BURNING WILL NOT BE PERMITTED.
12. ALL WELDING BOTH SHOP AND FIELD SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS. WELDING ELECTRODES SHALL CONFORM TO ASTM A233, E70-XX. MINIMUM WELD SIZE SHALL BE 1/4 INCHES (FILLET) UNLESS OTHERWISE NOTED.
13. BITUMINOUS COAT ALL STRUCTURAL STEEL LOCATED BELOW GRADE.
14. ALL EXTERIOR MEMBERS, LINTELS, ASSEMBLIES OR COMPONENTS SHALL BE GALVANIZED AND PAINTED.
15. FINISH:
    PAINTED: MANUFACTURERS STANDARD PRIMER. SEE SPECIFICATION.
    GALVANIZED: IN ACCORDANCE WITH ASTM A780.
16. AFTER ERECTION, ALL DAMAGED AREAS IN THE SHOP COAT AND AT ALL FIELD WELD LOCATIONS, SHALL BE TOUCHED UP WITH THE SAME PAINT USED FOR THE PRIMER AND SHOP COAT. PREPARE SURFACES IN ACCORDANCE WITH SSPC-SP3, FOR PAINTED FINISH, OR IN ACCORDANCE WITH ASTM A780 IF FINISH IS GALVANIZED.

STEEL DECK NOTES:

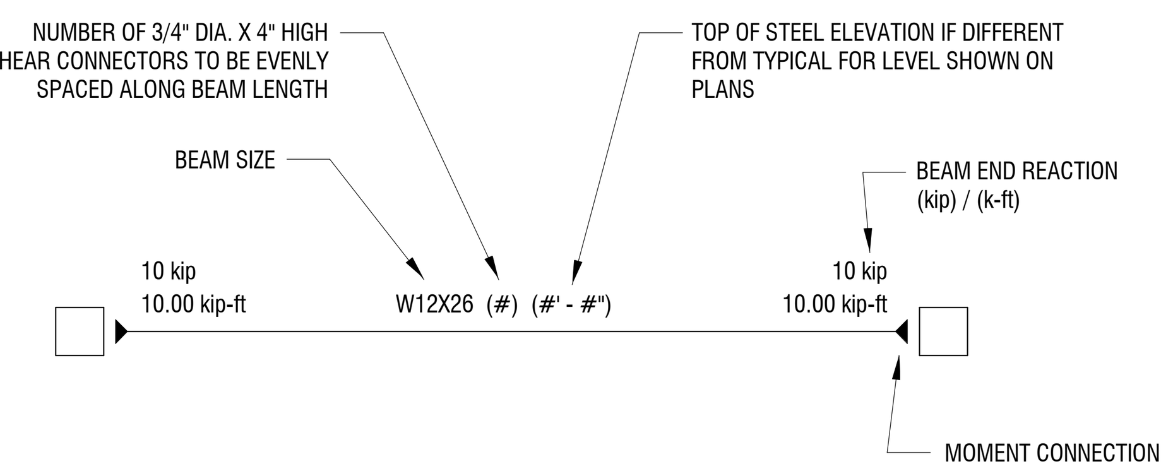
1. PROVIDE GALVANIZED STEEL DECK IN ACCORDANCE WITH ASTM A653. GALVANIZED WITH A MINIMUM YIELD STRENGTH OF 33 KSI.
2. PLACE STEEL DECK OVER A MINIMUM OF 3 SPANS IN THE DIRECTION INDICATED IN THE PLANS, UNLESS OTHERWISE NOTED.
3. WELD DECKING TO STRUCTURAL STEEL BY CERTIFIED WELDERS USING PREQUALIFIED PROCEDURES. THE ERECTOR SHALL ESTABLISH A WELDING PROCEDURE FOR THE PUDDLE WELDING OF STEEL DECKING TO THE STRUCTURAL STEEL FOR THE PARTICULAR GAGES USED. PRIOR TO THE START OF ERECTION OF THE STEEL DECK, QUALIFY EACH WELDER USING THIS PROCEDURE AS WITNESSED BY THE OWNER'S TESTING LABORATORY.
4. POWER-ACTUATED MECHANICAL FASTENERS APPROVED BY THE ENGINEER OF RECORD MAY BE USED IN LIEU OF WELDING THE DECKING TO THE STRUCTURAL STEEL.
5. DO NOT HANG LOADS EXCEEDING 50 LBS. FROM ANY METAL DECKING. HANG ALL DUCTWORK, PIPING, ETC. DIRECTLY FROM STRUCTURAL STEEL.

SPECIAL INSPECTION NOTES:

1. ALL PREFABRICATED ITEMS SHALL BE MANUFACTURED BY APPROVED AND CERTIFIED SHOPS.
2. SPECIAL INSPECTIONS WILL BE REQUIRED FOR THIS PROJECT. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE OWNER'S TESTING AND SPECIAL INSPECTION REPRESENTATIVES.
3. SEE CHARTS ON S-002 AND SPECIFICATIONS FOR STRUCTURAL SPECIAL INSPECTIONS AND ADDITIONAL INFORMATION.

MISCELLANEOUS NOTES

1. ALL ELEVATIONS ARE REFERENCED FROM FINISHED MAIN FLOOR ELEVATION [0' - 0"]
2. BEAM LEGEND



STRUCTURAL ABBREVIATIONS LEGEND

ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWS	AMERICAN WELDING SOCIETY
APPROX.	APPROXIMATE
ARCH.	ARCHITECT/ARCHITECTURAL
B.F.	BOTTOM FACE
B.O.	BOTTOM OF
CIP	CAST-IN-PLACE
CONC.	CONCRETE
C.J.	CONSTRUCTION JOINT
CONT.	CONTINUOUS
COV.	COVER
DIA.	DIAMETER
E.F.	EACH FACE
E.S.	EACH SIDE
E.W.	EACH WAY
ELEV.	ELEVATION
EQ.	EQUAL
EXIST.	EXISTING
(E)	EXISTING
F.F.E.	FINISHED FLOOR ELEVATION
FW	FLATWISE
F.D.	FLOOR DRAIN
F	FOOTING
FTG.	FOOTING
FNDN.	FOUNDATION
GA.	GAGE
GALV.	GALVANIZED
H.P.	HIGH POINT
H.S.	HIGH STRENGTH

STRUCTURAL ABBREVIATIONS LEGEND

HORIZ.	HORIZONTAL
I.F.	INSIDE FACE
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MANUF.	MANUFACTURER
MAX.	MAXIMUM
MECH.	MECHANICAL
MIN.	MINIMUM
(N)	NEW
O.C.	ON CENTER
O.F.	OUTSIDE FACE
P	PIER (SEE SCHEDULE)
PLF	POUNDS PER LINEAR FOOT
REINF.	RENFORCING, REINFORCEMENT
S.J.	SAW-CUT CONTROL JOINT
SPA., SP.	SPACE OR SPACING
STD.	STANDARD
SDI	STEEL DECK INSTITUTE
TSF	TON PER SQUARE FOOT
T&B	TOP & BOTTOM
T.F.	TOP FACE
T.O.	TOP OF
T.O.S.	TOP OF STEEL
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.I.F.	VERIFY IN FIELD
VERT.	VERTICAL
W.W.R.	WELDED WIRE REINFORCEMENT
W/	WITH
W.P.	WORKING POINT

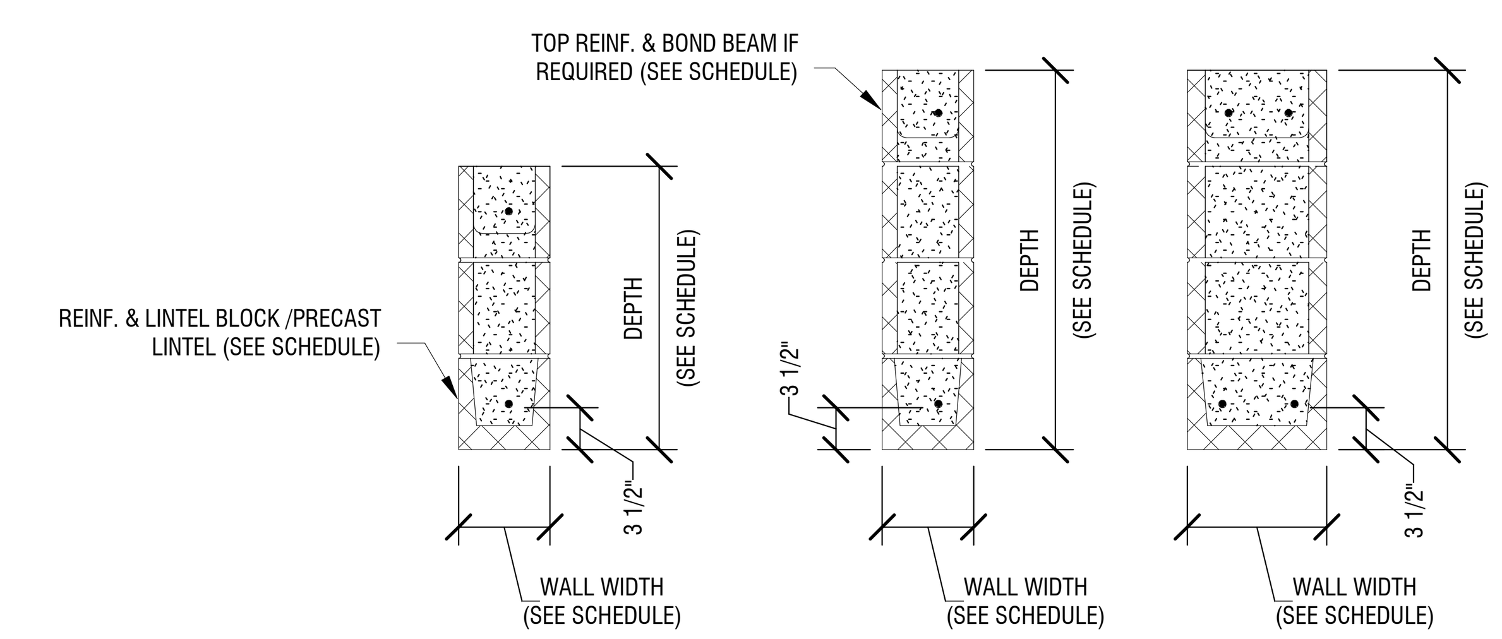
STRUCTURAL DESIGN TABLE
(IN ACCORDANCE WITH APPLICABLE BUILDING CODE)

BUILDING DATA:			
LOCATION		ROCHESTER, NEW YORK	
BUILDING OCCUPANCY RISK CATEGORY		II	IBC 2015 TABLE 1604.5
APPLICABLE BUILDING CODE		INTERNATIONAL BUILDING CODE 2015 WITH NEW YORK STATE AMENDMENTS	
GEOTECHNICAL INFORMATION:			
ALLOWABLE BEARING PRESSURE		3000 PSF	
DEAD LOAD:			
ROOF	DL1	20 PSF	
FLOOR LIVE LOAD:			
GARAGES	LL1	40 PSF	IBC 2015 TABLE 1607.1
ROOF LIVE LOAD:			
ROOF	LLr	20 PSF	IBC 2015 TABLE 1607.1
SNOW LOAD:			
SNOW LOAD IMPORTANCE FACTOR	Is	1.00	ASCE 7-10 TABLE 1.5-2
GROUND SNOW LOAD	Pg	40.0 PSF	IBC 2015 FIGURE 1608.2
SNOW EXPOSURE FACTOR	Ce	1.00	ASCE 7-10 TABLE 7-2
THERMAL FACTOR	Ct	1.00	ASCE 7-10 TABLE 7-3
FLAT ROOF SNOW	Pf	28.0 PSF	ASCE 7-10 SECTION 7.3
DRIFTING SNOW		AS REQ. PER ASCE 7-10	ASCE 7-10 SECTION 7.7
WIND LOAD (MAIN WIND-FORCE RESISTING SYSTEM):			
ANALYSIS PROCEDURE		DIRECTIONAL PROCEDURE	ASCE 7-10 CHAPTER 27
ULTIMATE DESIGN WIND SPEED (3-SECOND GUST)	Vult	115 mph	ASCE 7-10 SECTION 26.5
NOMINAL DESIGN WIND SPEED (3-SECOND GUST)	Vasd	89.0 mph	IBC 2015 SECTION 1609.3.1
WIND DIRECTIONALITY FACTOR	Kd	0.85	ASCE 7-10 SECTION 26.6
EXPOSURE CATEGORY		B	ASCE 7-10 SECTION 26.7
TOPOGRAPHIC FACTOR	Kzt	1.00	ASCE 7-10 SECTION 26.8
GUST-EFFECT FACTOR	G	0.85	ASCE 7-10 SECTION 26.9
ENCLOSURE CLASSIFICATION		PARTIALLY ENCLOSED	ASCE 7-10 SECTION 26.10
INTERNAL PRESSURE COEFFICIENT	GCpi	+0.55/-0.55	ASCE 7-10 SECTION 26.11
VELOCITY PRESSURE EXPOSURE COEFFICIENT	Kz	0.62	ASCE 7-10 TABLE 27.3-1
VELOCITY PRESSURE	q	17.84 PSF	ASCE 7-10 SECTION 27.3.2
MINIMUM WALL WIND PRESSURE	Pmin	16 PSF	ASCE 7-10 SECTION 27.4.7
MINIMUM ROOF WIND PRESSURE	Pmin	8 PSF	ASCE 7-10 SECTION 27.4.7
NOTES		WIND LOADS ARE CALCULATED FROM THESE PARAMETERS FOR EACH SURFACE OF THE MAIN WIND-FORCE RESISTING SYSTEM.	
EARTHQUAKE LOAD:			
SEISMIC - FORCE RESISTING SYSTEM		A.9 ORDINARY REINFORCED MASONRY SHEAR WALLS	ASCE 7-10 TABLE 12.2-1
SOIL SITE CLASSIFICATION		C	ASCE 7-10 SECTION 20.3
SPECTRAL RESPONSE ACCELERATION AT 0.2 SEC	Ss	0.168g	ASCE 7-10 FIGURE 22-1
SPECTRAL RESPONSE ACCELERATION AT 1.0 SEC	S1	0.060g	ASCE 7-10 SECTION 11.4.1
SEISMIC IMPORTANCE FACTOR	Ie	1.00	ASCE 7-10 TABLE 1.5-2
DESIGN SPECTRAL RESPONSE COEFFICIENT	SDS	0.134g	ASCE 7-10 SECTION 11.4.4
DESIGN SPECTRAL RESPONSE COEFFICIENT	SD1	0.068g	ASCE 7-10 SECTION 11.4.4
SEISMIC DESIGN CATEGORY		B	ASCE 7-10 TABLE 11.6-(1&2)
ANALYSIS PROCEDURE		EQUIV. LATERAL FORCE	ASCE 7-10 SECTION 12.8
SEISMIC RESPONSE COEFFICIENT	Cs	0.0672	ASCE 7-10 SECTION 12.8.1.1
RESPONSE MODIFICATION FACTOR	R	2	ASCE 7-10 TABLE 12.2-1
SEISMIC BASE SHEAR	V	5.8 KIPS	ASCE 7-10 SECTION 12.8.1

STRUCTURAL MASONRY LINTEL SCHEDULE

LINTEL MARK	MASONRY OPENING DIMENSIONS		MASONRY LINTEL OPTION		PRECAST LINTEL OPTION		LOCATION	COMMENTS
	OPENING SIZE	WALL WIDTH	NOMINAL DEPTH	REINFORCEMENT	MODEL	NOMINAL DEPTH		
L1	10' - 0"	12"	-	-	CASTCRETE 12F20-2B	2.5 COURSES = 20"	GARAGE DVERHEAD DOOR	SEE TYPICAL SECTIONS & DETAILS FOR ADDITIONAL REQUIREMENTS
L2	6' - 4"	12"	-	-	CASTCRETE 12F20-2B	2.5 COURSES = 20"	MAN DOOR	SEE TYPICAL SECTIONS & DETAILS FOR ADDITIONAL REQUIREMENTS
L3	3' - 4"	12"	-	-	CASTCRETE 12F12-2B	1.5 COURSES = 18"	EXTERIOR MAN DOOR	SEE TYPICAL SECTIONS & DETAILS FOR ADDITIONAL REQUIREMENTS
L4	<3' - 4"	12"	1 COURSES = 8"	(2) #4 BARS	CASTCRETE 12F12-2B	1.5 COURSES = 18"	MISC. MECH. OPENINGS	SEE TYPICAL SECTIONS & DETAILS FOR ADDITIONAL REQUIREMENTS

NOTES:
1. PRECAST LINTEL HEIGHTS TO BE VERIFIED IN FIELD. INCREASE NOMINAL DEPTH TO MAINTAIN COURSING AS REQUIRED.
2. INSTALL PRECAST LINTEL PER MANUFACTURER REQUIREMENTS.



COLUMN SCHEDULE

T.O STEEL			T.O STEEL
15' - 11"	HSS8X8X5/16	HSS8X8X5/16	15' - 11"
FOUNDATION PLAN			FOUNDATION PLAN
0"	-9 1/4"	-9 1/4"	0"
COLUMN STIFFENERS &/OR DOUBLER PLATES REQUIRED			
BASE PLATE TYPE	BP1	BP1	
AXIAL LOAD			
Column Locations	A'-11	A"-11	

NOTES:
1. ELEVATIONS ARE REFERENCED FROM THE NEAREST LEVEL.
2. PROVIDE 1/4" CAP PLATES FOR ALL HSS COLUMNS. U.N.O.

BASE PLATE SCHEDULE

TYPE	BASE PLATE DIMENSIONS			ANCHOR BOLT PROPERTIES			COMMENTS
	LENGTH	WIDTH	THICKNESS	NO. OF BOLTS	BOLT DIAMETER	MIN. EMBEDMENT	
BP1	1' - 4"	1' - 4"	3/4"	4	3/4"	9"	-

FOOTING SCHEDULE

MARK	FOOTING DIMENSIONS			FOOTING REINFORCEMENT			COMMENTS
				BOTTOM REINFORCEMENT		TOP REINFORCEMENT	
	LENGTH	WIDTH	THICKNESS	LONGITUDINAL REINF.	TRANSVERSE REINF.		
F1	4' - 0"	4' - 0"	1' - 0"	(5) #5 BARS	(5) #5 BARS	(5) #5 BARS E.W.	-

SLAB-ON-GRADE SCHEDULE

MARK	TYPE	SLAB THICKNESS	SLAB REINFORCEMENT	COMMENTS
S.O.G. 1	SLAB-ON-GRADE	6"	FIBERMESH 650 MACROSYNTHETIC FIBERS OR APPROVED EQUAL	SEE PLANS & SECTIONS FOR ADDITIONAL REINF.
S.O.G. 2	CIVIL/SITE SLAB	6"	FIBERMESH 650 MACROSYNTHETIC FIBERS OR APPROVED EQUAL	SEE PLANS & SECTIONS FOR ADDITIONAL REINF.

WALL SCHEDULE

MARK	TYPE	THICKNESS	WALL REINFORCEMENT			COMMENTS
			HORIZONTAL	VERTICAL	BOND BEAM REINF.	
M12	MASONRY BEARING WALL	11 5/8"	9 GA. TIES @ 16" O.C.	#5 BARS @32" O.C.	(2) #5 BAR	SEE TYPICAL DETAILS AND SECTIONS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.
M12-F	MASONRY FOUNDATION WALL	11 5/8"	9 GA. TIES @ 16" O.C.	#5 BARS @ 32" O.C.	(2) #5 BAR	SOLID GROUTED
M12-I	INSULATED EXTERIOR MASONRY SHEAR WALL	11 5/8"	9 GA. TIES @ 16" O.C.	#5 BARS @32" O.C.	(2) #5 BAR	SEE TYPICAL DETAILS AND SECTIONS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS.

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	FOOTING REINFORCEMENT		COMMENTS
			LONGITUDINAL	TRANSVERSE	
WF1	2' - 0"	1' - 0"	(4) #5 BARS	#5 BARS @ 12" O.C.	-

ROOF DECK SCHEDULE

MARK	MODEL	GAGE	FASTENER PATTERN		COMMENTS
			SUPPORT PATTERN	SIDELAP PATTERN	
R1	VULCRAFT 1.5" TYPE B DECK	20	5/8" DIA. PUDDLE WELDS AT 36/5 PATTERN	(3) #10 SCREWS	HILTI X-ENP AND/OR X-HSN MECHANICAL FASTENERS OR EQUIVALENT MAY BE USED IN LIEU OF WELDING

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NO:	DATE:	DESCRIPTION:
REVISIONS		

PROJECT NUMBER: 2171059

DRAWN BY: KRD

REVIEWED BY: JDL

ISSUED FOR: CONSTRUCTION

DATE: 5/16/2017

DRAWING NAME: **GENERAL NOTES**

DRAWING NUMBER: **S-001**

STATEMENT OF SPECIAL INSPECTIONS

LOCATION	DORSCHEL MINI OF ROCHESTER
OWNER	RJ DORSCHEL CORP.
DESIGN PROFESSIONAL IN CHARGE	KEVIN DEROLLER

This statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the applicable building code. It includes a schedule of Special Inspection services applicable to this project as well as the name of the Special Inspection coordinator and the identity of other approved agencies to be retained for conducting these inspections and tests. This Statement of Special Inspections encompasses the following disciplines: STRUCTURAL. The Special Inspection Coordinator shall keep records of all inspections and shall furnish inspection reports to the Building Official and the Registered Design Professional in Responsible Charge (RDP). Discovered discrepancies shall be brought to the immediate attention of the contractor for correction. If such discrepancies are not corrected, the discrepancies shall be brought to the attention of the Building Official and the RDP. The Special Inspection program does not relieve the contractor of his or her responsibility for quality assurance.

Interim reports shall be submitted to the Building Official and the RDP.

A Final Report of Special Inspections documenting completion of all required Special Inspections, testing, and correction of any discrepancies noted in the inspections shall be submitted by the special Inspection Coordinator prior to issuance of a Certificate of Use and Occupancy.

Job site safety and means and methods of construction are solely the responsibility of the contractor.

Interim reports shall be submitted monthly.

In accordance with the applicable building code, the Observations and Inspections listed in the Schedule of Special Inspections are required.

SCHEDULE OF INSPECTION AND TESTING AGENCIES

SPECIAL INSPECTION AGENCIES	FIRM	ADDRESS	TELEPHONE No.
Special Inspection Coordinator			
Inspector			

Note: The inspectors and testing agencies shall be engaged by the Owner or the Owner's Agent in accordance with the applicable building code, and not by the Contractor or Subcontractor whose work is to be inspected or tested. An approved agency shall be objective, competent and independent from the contractor responsible for the work being inspected. The agency shall also disclose to the building official and the registered design professional in responsible charge possible conflicts of interest so that objectivity can be confirmed.

STATEMENT OF CONTRACTORS RESPONSIBILITY

In accordance with the applicable building code, each contractor responsible for the construction of a main wind or seismic force-resisting system, designated seismic system or a wind or seismic force-resisting component listed in the statement of special inspections above shall submit a written statement of responsibility to the building official and the owner or the owner's authorized agent prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain acknowledgement of awareness of the special requirements contained in the statement of special inspections.

QUALIFICATIONS OF INSPECTORS AND TESTING TECHNICIANS

The qualifications of all personnel performing Special Inspection and testing activities are subject to the approval of the Building Official. The credentials of all Inspectors and testing technicians shall be provided.

Key for Minimum Qualifications of Inspection Agents:

When the Registered Design Professional in Responsible Charge deems it appropriate that the individual performing a stipulated test of inspection have a specific certification or license as indicated below, such designation shall appear below the Agency Number on the Schedule.

PE/SE	Structural Engineer - a licensed PE specializing in the design of building structures
PE/GE	Geotechnical Engineer - a licensed PE specializing in soil mechanics and foundations
EIT	Engineer - In - Training - a graduate engineer who as passed the Fundamentals of Engineering examination
AMERICAN CONCRETE INSTITUTE (ACI) CERTIFICATION	
ACI-CFTT	Concrete Field Testing Technician - Grade 1
ACI-CCSI	Concrete Construction Special Inspector
ACI-LTT	Laboratory Testing Technician - Grade 1&2
ACI-STT	Strength Testing Technician
AMERICAN WELDING SOCIETY (AWS) CERTIFICATION	
AWS-CWI	Certified Welding Inspector
AWS/AISC-SSI	Certified Structural Steel Inspector
INTERNATIONAL CODE COUNCIL (ICC) CERTIFICATION	
ICC-SMSI	Structural Masonry Special Inspector
ICC-SWSI	Structural Steel and Welding Special Inspector
ICC-SFSI	Spray-Applied Fireproofing Special Inspector
ICC-PCSI	Prestressed Concrete Special Inspector
ICC-RCSI	Reinforced Concrete Special Inspector
NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES (NICET)	
NICET-CT	Concrete Technician - Levels I, II, III, & IV
NICET-ST	Soil Technicians - Levels I, II, III & IV
NICET-GET	Geotechnical Engineering Technician - Levels I, II, III & IV

REFERENCES

CODE/STANDARD	TITLE
ACI 301	Standard Specifications for Structural Concrete.
ACI 318	Building Code Requirements for Structural Concrete
ACI 530.1/ASCE 6/TMS 602	Specifications for Masonry Structures
AISC 360	Specifications for Structural Steel Buildings
ASTM A6	Specifications for General Requirements for Rolled Steel Plates, Shapes, Sheet Piling, and Bars for Structural Use.
ASTM A568	Specifications for Steel Sheet, Carbon and High Stength, Low-Alloy, Hot-Rolled and Cold Rolled.
ASTM C31	Practice for Making and Curing Concrete Test Specimens in the Field
ASTM C94	Specifications for Ready-Mixed Concrete
ASTM C109	Test Methods for Compressive Stength of Hydraulic Cement Mortars (Using 2 in. or 50 mm Cube Specimins)
ASTM C138	Test Method for Unit Weight, Yeild and Air Content (Gravimetric) of Concrete
ASTM C143	Test Method for Slump of Hydraulic Cement Concrete.
ASTM C172	Practice for Sampling Freshly Mixed Concrete
ASTM C173	Test Method for Air Content of Freshly Mixed Concrete by the Volumetric Method
ASTM C231	Test Method for Air Content of Freshly Mixed Concrete by the Pressure Method
ASTM C567	Test Method for Unit Weight of Structural Lightweight Concrete
ASTM C1090	Test Method for Temperature of Freshly Mixed Portland Cement Concrete
ASTM C1064	Test Method for Measuring Changes in Height of Cylindrical Specimens from Hydraulic Cement Grout
ASTM C1314	Test Method for Constructing and Testing Masonry Prisms Used to Determine Compliance with Specified Compressive Strength of Masonry
AWS D1.1	Structural Welding Code - Steel.
APPLICABLE BUILDING CODE	International Building Code 2015 with New York State Amendments
RCSC	Specification for Structural Joints Using High Stength Bolts.

SCHEDULE OF STRUCTURAL SPECIAL INSPECTIONS

THE FOLLOWING TABLES COMPRISES THE STRUCTURAL SPECIAL INSPECTION REQUIREMENTS FOR THIS PROJECT IN ACCORDANCE WITH CHAPTER 17 OF THE 2015 INTERNATIONAL BUILDING CODE. REFER TO THE PROJECT SPECIFICATIONS FOR REQUIRED QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTION ACTIVITIES AND ADDITIONAL TESTING INFORMATION.

EARTHWORK - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	PERIODIC	-	1705.6
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	PERIODIC		
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS	PERIODIC		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	CONTINUOUS		
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	PERIODIC		

CAST-IN-PLACE CONCRETE - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	PERIODIC	ACI 318 CH. 20, 25.2, 25.3, 26.6.1 - 26.6.3	1908.4
2. REINFORCING BAR WELDING: A. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706; B. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16"; AND C. INSPECT ALL OTHER WELDS.	 PERIODIC PERIODIC CONTINUOUS	AWS D1.4 ACI 318: 26.6.4	-
3. INSPECT ANCHORS CAST IN CONCRETE	PERIODIC	ACI 318: 17.8.2	-
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS. A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS. B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS.	 CONTINUOUS PERIODIC	 ACI 318: 17.8.2.4 ACI 318: 17.8.2	-
5. VERIFY USE OF REQUIRED DESIGN MIX.	PERIODIC	ACI 318: CH. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	CONTINUOUS	ASTM C172 ASTM C31 ACI 318: 26.4, 26.12	1908.10
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	CONTINUOUS	ACI 318: 26.5	1908.6, 1908.7, 1908.8
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	PERIODIC	ACI 318: 26.5.3 - 26.5.5	1908.9
9. INSPECT PRESTRESSED CONCRETE FOR: A. APPLICATION OF PRESTRESSING FORCES; AND B. GROUTING OF BONDED PRESTRESSING TENDONS.	 CONTINUOUS CONTINUOUS	ACI 318: 26.10	-
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS.	PERIODIC	ACI 318: CH. 26.8	-
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	PERIODIC	ACI 318: 26.11.2	-
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	PERIODIC	ACI 318: 26.11.2 (b)	-

MASONRY CONSTRUCTION - REQUIREMENTS FOR LEVEL B SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS	PERIODIC	-	1705.4
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ITEMS ARE IN COMPLIANCE: A. PROPORTIONS OF SITE-PREPARED MORTAR. B. CONSTRUCTION OF MORTAR JOINTS. C. GRADE AND SIZE OF PRESTRESSING TENDONS AND ANCHORAGES. D. LOCATION OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS, AND ANCHORAGES. E. PRESTRESSING TECHNIQUE. F. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY.	 PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	-	
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE: A. GROUT SPACE B. GRADE, TYPE AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES. C. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND PRESTRESSING TENDONS AND ANCHORAGES. D. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS. E. CONSTRUCTION OF MORTAR JOINTS.	 PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	 SEC. 6.1 SEC. 6.1, 6.2.1, 6.2.6, 6.2.7	
4. VERIFY DURING CONSTRUCTION: A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS. B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGES OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION. C. WELDING OF REINFORCEMENT. D. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLE WEATHER (TEMPERATURES BELOW 40) OR HOT WEATHER (TEMPERATURES ABOVE 90). E. APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE. F. PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE G. PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS.	 PERIODIC PERIODIC CONTINUOUS PERIODIC CONTINUOUS CONTINUOUS PERIODIC	 SEC. 1.2.1(E), 6.1.4.3, 6.2.1 SEC. 8.1.6.7.2, 9.3.3.4(C), 11.3.3.4(B)	
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	PERIODIC		

OPEN-WEB STEEL JOISTS AND JOIST GIRDERS - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. INSTALLATION OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS			
A. END CONNECTIONS - WELDING OR BOLTED.	PERIODIC	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	1705.2.3
B. BRIDGING - HORIZONTAL OR DIAGONAL			
1. STANDARD BRIDGING	PERIODIC	SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	
2. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS LISTED IN SECTION 2207.1.	PERIODIC		

STEEL CONSTRUCTION - REQUIREMENTS FOR SPECIAL INSPECTION & TESTING

AREAS OF INSPECTION & TESTING	FREQUENCY OF INSPECTION OR TESTING	REFERENCE STANDARD	IBC REFERENCE
1. FABRICATOR'S SHOP TESTING AND QUALITY CONTROL PROGRAM: A. VERIFY FABRICATOR'S CERTIFICATION AND QUALITY CONTROL PROGRAM. B. SPECIAL INSPECTIONS REQUIRED IN FABRICATOR'S SHOP FOR ELEMENTS IDENTIFIED BELOW.	PERIODIC NOT REQUIRED. IF FABRICATOR IS AISC CERTIFIED	AISC PLANT CERTIFICATION PROGRAM	1705.2
2. INSPECTION TASKS FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS PRIOR TO BOLTING: A. VERIFY MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS. B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS. C. PROPER FASTENERS SELECTED FOR JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE) D. PROPER BOLTING PROCEDURE SELECTED FOR JOINT DETAIL. E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS. F. PRE-INSTALLATION VERIFICATION AND TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED. G. PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENERS.	 CONTINUOUS PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N5.6-1	
3. INSPECTION TASKS FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS DURING BOLTING: A. FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED. B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION. C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING. D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE POST RIGID POINT TOWARD THE FREE EDGES.	 PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N5.6-2	
4. INSPECTION TASK FOR HIGH-STRENGTH BOLTS, NUTS AND WASHERS AFTER BOLTING: A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	CONTINUOUS	AISC 360, TABLE N5.6-3	
5. INSPECTION TASKS PRIOR TO WELDING: A. WELDING PROCEDURE SPECIFICATIONS (WPSs) ARE AVAILABLE B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES ARE AVAILABLE C. MATERIAL IDENTIFICATION (TYPE/GRADE) D. WELDER IDENTIFICATION SYSTEM F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY): JOINT PREPARATION DIMENSIONS (ALIGNMENT, ROOT OPENING & FACE, LEVEL) CLEANLINESS (CONDITION OF STEEL SURFACES) TACKING (TACK WELD QUALITY AND LOCATION) BACKING TYPE AND FIT (IF APPLICABLE) G. CONFIGURATION AND FINISH OF ACCESS HOLE. H. FIT-UP OF FILLET WELDS: DIMENSIONS (ALIGNMENT, GAPS AT ROOT) CLEANLINESS (CONDITION OF STEEL SURFACES) ALIGNMENT (TACK WELD QUALITY AND LOCATION)	 CONTINUOUS CONTINUOUS PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N4.6-1	
6. INSPECTION TASKS DURING WELDING: A. USE OF QUALIFIED WELDERS B. CONTROL AND HANDLING OF WELDING CONSUMABLES, INCLUDING PACKING AND EXPOSURE C. ENVIRONMENTAL CONDITIONS INCLUDING WIND SPEED WITHIN LIMITS, PRECIPITATION, AND TEMPERATURE D. WPS FOLLOWED: SETTINGS ON WELDING EQUIPMENT. TRAVEL SPEED SELECTED WELDING MATERIALS SHIELDING GAS TYPE/FLOW RATE PREHEAT APPLIED INTERPASS TEMPERATURE MAINTAINED (MIN/MAX) PROPER POSITION (F, V, H, OH) E. WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING EACH PASS WITHIN PROFILE LIMITATIONS EACH PASS MEETS QUALITY REQUIREMENTS	 PERIODIC PERIODIC PERIODIC PERIODIC PERIODIC	AISC 360, TABLE N4.6-2	
7. INSPECTION TASKS AFTER WELDING: A. WELDS CLEANED. B. SIZE, LENGTH, AND LOCATIONS OF WELDS C. WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION WELD/BASE-METAL FUSION CRATER CROSS SECTION WELD PROFILES WELD SIZE UNDERCUT POROSITY D. ARC STRIKES E. k-AREA F. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED) G. REPAIR ACTIVITIES F. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	 PERIODIC CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS CONTINUOUS	AISC 360, TABLE N4.6-3	
8. VERIFY PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENT SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE *CONSTRUCTION DOCUMENTS*. VERIFY DIAMETER, GRADE, TYPE, AND LENGTH OF ANCHOR ROD OR EMBEDMENT ITEM AND THE EXTENT OR DEPTH OF THE EMBEDMENT INTO THE CONCRETE PRIOR TO PLACEMENT OF CONCRETE.	PERIODIC	AISC 360, N5.7	
9. INSPECT STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS: A. DETAILS SUCH AS BRACING AND STIFFENERS. B. MEMBER LOCATIONS. C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.	PERIODIC	AISC 360, N5.7	
10. INSPECT STEEL ELEMENTS OF COMPOSITE CONSTRUCTION PRIOR TO CONCRETE PLACEMENT: A. PLACEMENT AND INSTALLATION OF STEEL DECK. B. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS. C. DOCUMENT ACCEPTANCE OR REJECTION OF STEEL ELEMENTS.	PERIODIC	AISC 360, N6	

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SERVICE BAY ADDITION & ALTERATION

MINI DORSCHEL
clear. simple. different.

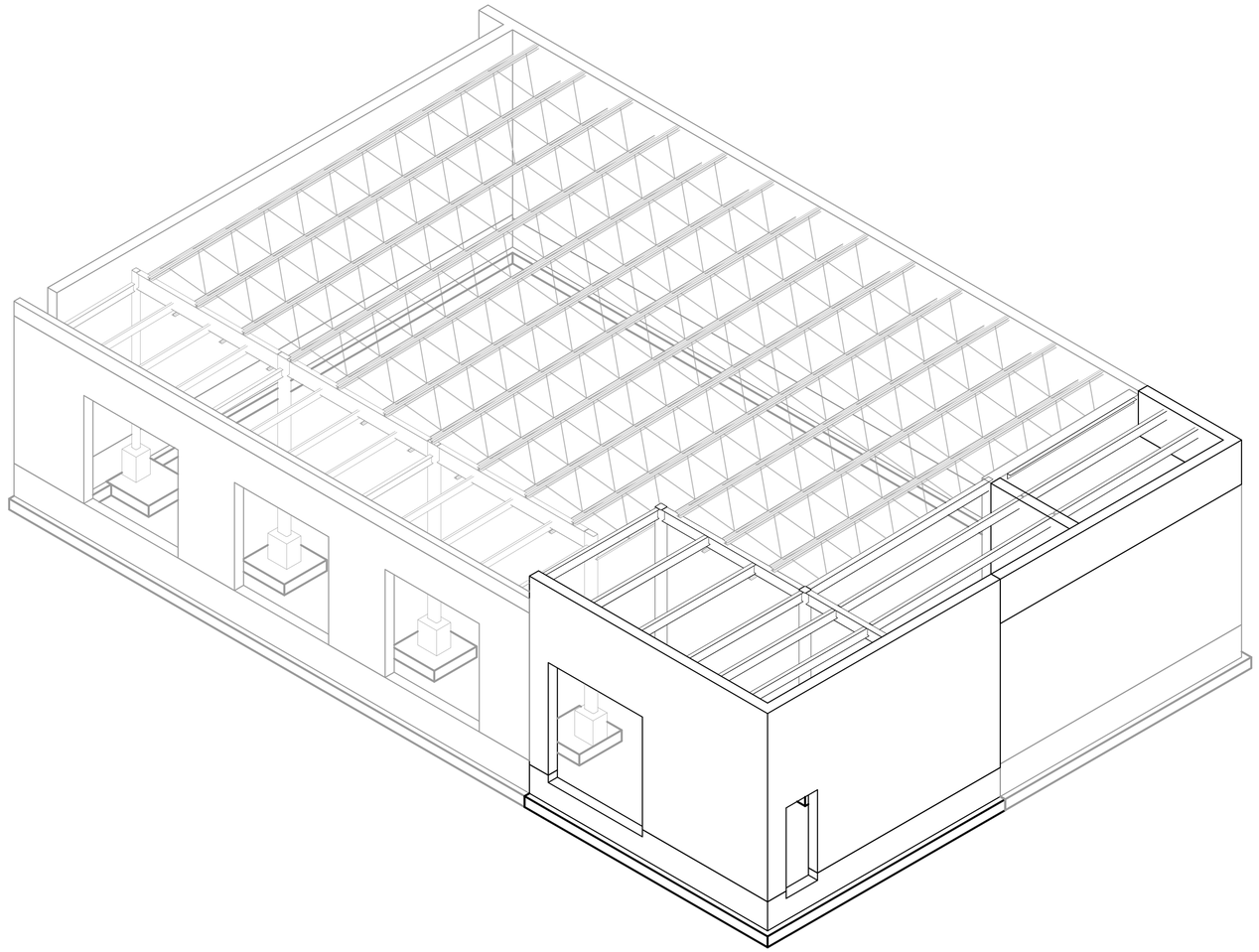
NO:	DATE:	DESCRIPTION:
REVISIONS		

PROJECT NUMBER: 2171059
DRAWN BY: KRD
REVIEWED BY: JDL
ISSUED FOR: CONSTRUCTION
DATE: 5/16/2017
DRAWING NAME:

SPECIAL INSPECTIONS

DRAWING NUMBER:

S-002



1 / S-003 **3D ISOMETRIC VIEW**

NOT TO SCALE

3D ISOMETRIC PLAN NOTES:

1. FOR REFERENCE PURPOSES ONLY. NOT FOR CONSTRUCTION.
2. ISOMETRIC VIEW MAY NOT BE AN ACCURATE REPRESENTATION OF FRAMING CONDITIONS. SEE PLANS AND SECTIONS FOR ALL CONDITIONS.

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ISSUED FOR: CONSTRUCTION

DATE: 5/16/2017

DRAWING NAME: **3D VIEWS**

DRAWING NUMBER: **S-003**

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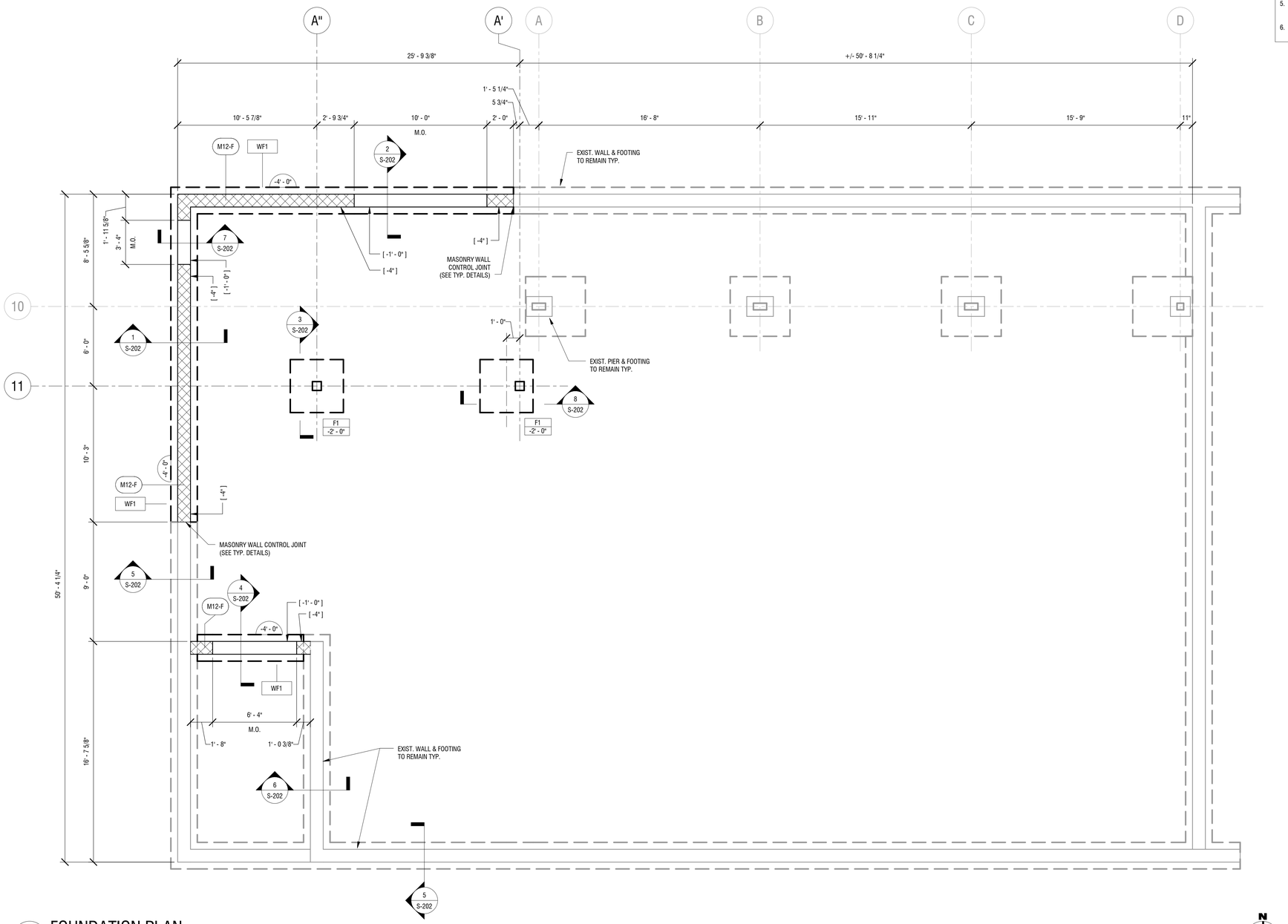

1 S-101 FOUNDATION PLAN

1/4" = 1'-0"

FOUNDATION PLAN NOTES:

1. BOTTOM OF FOOTING ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION (DATUM ELEV. 0' - 0") AND ARE NOTED ON PLAN.
2. CENTER ISOLATED FOOTINGS UNDER COLUMNS AND/OR AT COLUMN LINE INTERSECTIONS. U.O.N..
3. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
4. SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
5. EXISTING ELEVATIONS AND DIMENSIONS ARE DERIVED FROM RECORD CONSTRUCTION DRAWINGS AND SHALL BE VERIFIED IN THE FIELD. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCES.
6. LIMITS OF DEMOLITION SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. ADJUST LIMITS AS NECESSARY SO THAT NEW CONSTRUCTION DOES NOT INTERFERE WITH EXISTING CONSTRUCTION.
7. REMOVE EXISTING FOUNDATION WALLS AND FOOTINGS TO BE DEMOLISHED DOWN A MINIMUM OF 8" FROM BOTTOM OF SLABS-ON-GRADE AND INTERIOR FOOTINGS.

FOUNDATION LEGEND

1.	P# / #' - #" | F# / -#' - #"	P# - INDICATES PIER TYPE (SEE PIER SCHEDULE) F# - INDICATES COLUMN FOOTING TYPE (SEE FOOTING SCHEDULE) [-#' - #"] - BELOW COLUMN FOOTING TYPE INDICATES BOTTOM OF FOOTING ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0". [-#' - #"] - BELOW PIER TYPE INDICATES TOP OF PIER ELEVATION WITH RESPECT TO DATUM ELEVATION = 0' - 0".
2.	W#	## - INDICATES WALL TYPE (SEE FOUNDATION WALL &/OR WALL SCHEDULE)
3.	WF#	WF# - INDICATES WALL FOOTING TYPE (SEE WALL FOOTING SCHEDULE)
4.	#'-#"	#'-#" - BOTTOM OF FOOTING ELEV. FOR WALL FOOTING W/ RESPECT TO DATUM ELEVATION = 0' - 0".
5.	[##'-##"]	TOP OF WALL ELEVATION W/ RESPECT TO DATUM ELEVATION = 0' - 0".
6.		SPOT ELEVATION INDICTES DEPTH BELOW F.F.E. (DATUM ELEVATION 0'-0")

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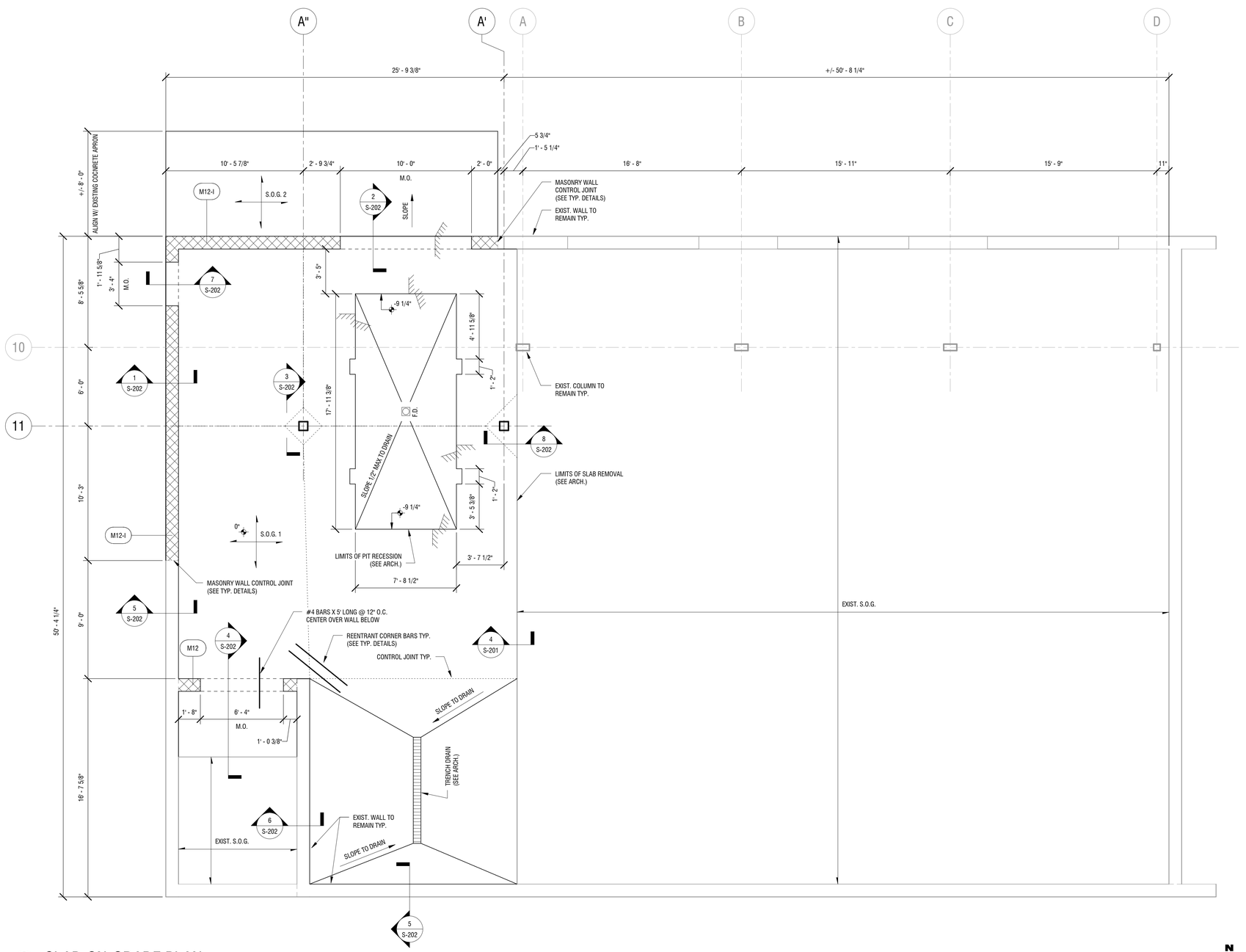
DATE: 5/16/2017

DRAWING NAME: FOUNDATION PLAN

DRAWING NUMBER: S-101



1 S-102 SLAB-ON-GRADE PLAN

1/4" = 1'-0"

SLAB PLAN NOTES:

1. ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR (DATUM ELEV. 0' - 0") AND ARE NOTED ON PLAN. U.N.O.
2. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
3. SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
4. SEE M.E.P. DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, HOUSEKEEPING PADS, FLOOR PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
5. BALANCE OF SLAB REINF. FOR REENTRANT CORNERS AND OPENINGS NOT SHOWN FOR CLARITY. SEE TYPICAL DETAILS.
6. EXISTING ELEVATIONS AND DIMENSIONS ARE DERIVED FROM RECORD CONSTRUCTION DRAWINGS AND SHALL BE VERIFIED IN THE FIELD. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCES.
7. LIMITS OF DEMOLITION SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. ADJUST LIMITS AS NECESSARY SO THAT NEW CONSTRUCTION DOES NOT INTERFERE WITH EXISTING CONSTRUCTION.

SLAB-ON-GRADE LEGEND

1.	S#	SLAB-ON-GRADE: ARROWS INDICATE LIMITS # = SLAB MARK
2.		SPOT ELEVATION INDICTES DEPTH BELOW F.F.E. (DATUM ELEVATION 0'-0")
3.		CONTROL/CONSTRUCTION JOINT
4.	W#	WALL MARK: SEE WALL SCHEDULE
5.	F.D.	F.D. = FLOOR DRAIN (SEE MECH. & ARCH.)
6.	C.O.	C.O. = CLEAN OUT (SEE MECH. & ARCH.)
7.		DENOTES STEP IN SLAB
8.		DENOTES SLOPE IN SLAB
9.		DENOTES STEP TO SLOPE IN SLAB
10.	[##'-##"]	TOP OF WALL ELEVATION W/ RESPECT TO DATUM ELEVATION = 0' - 0".

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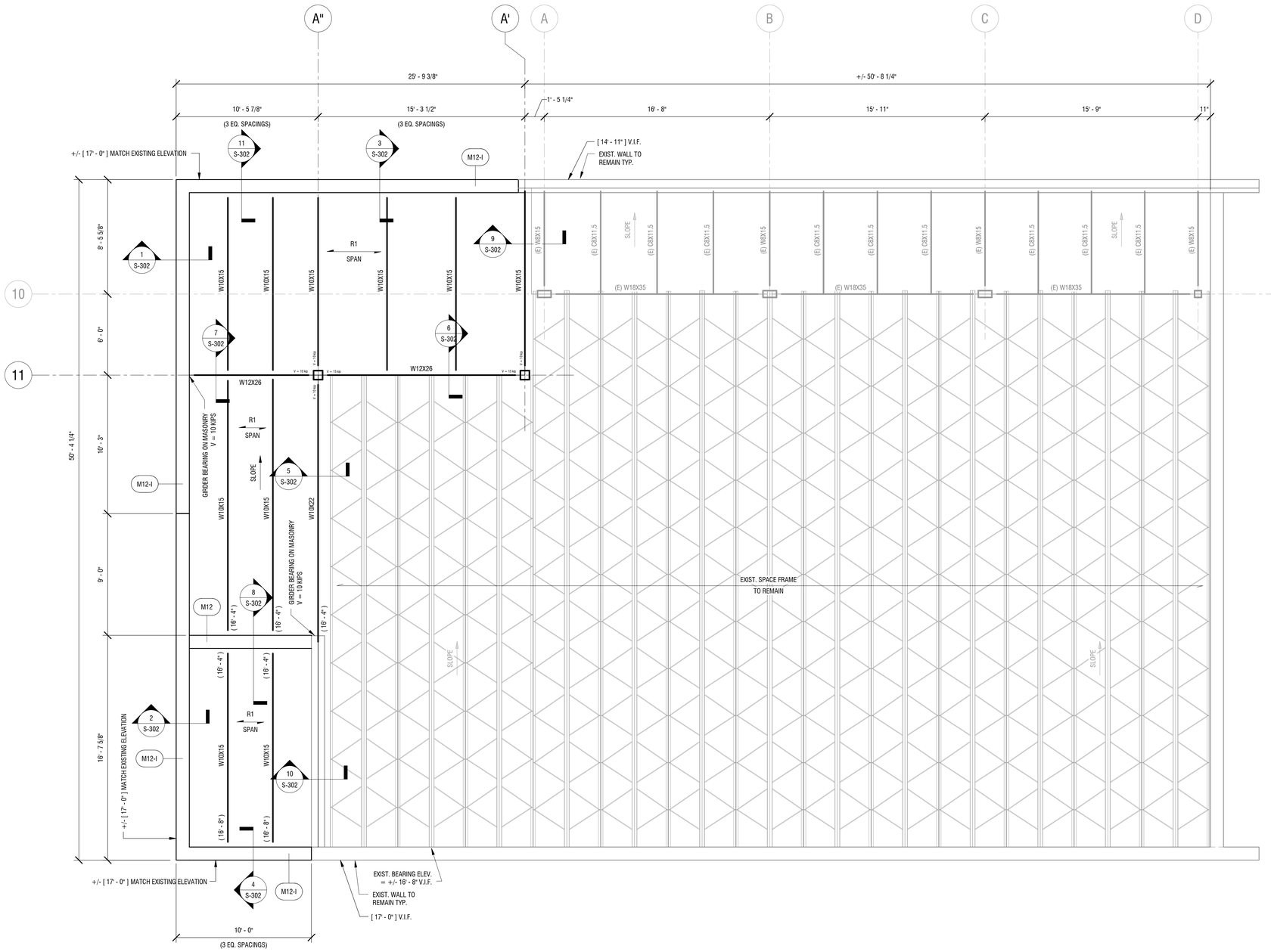
ISSUED FOR: CONSTRUCTION

DATE: 5/16/2017

DRAWING NAME: SLAB-ON-GRADE PLAN

DRAWING NUMBER: S-102



1 S-103 ROOF FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING PLAN NOTES:

1. TOP OF STEEL ELEVATIONS SHALL BE (+15' - 11") ABOVE FIRST FLOOR DATUM ELEVATION (DATUM ELEV. 0' - 0"). DEVIATIONS FROM THIS ELEVATION ARE NOTED ON PLAN.
2. BEAM REACTIONS SHOWN ON PLANS ARE FACTORED LOAD FORCES. THE MINIMUM BEAM SHEAR REACTION IS 10 KIPS, OR 25% MAXIMUM TOTAL UNIFORM LOAD FOR ALL STEEL MEMBERS, WHICHEVER IS GREATER. DESIGN FOR MARKED PLAN LOADS OR MINIMUM, WHICHEVER IS GREATER.
3. SEE MECHANICAL/ELECTRICAL DRAWINGS FOR THE BALANCE OF ALL EQUIPMENT, FLOOR PENETRATIONS, ETC. REQUIRED AT THIS LEVEL.
4. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL FLOOR PLANS FOR DIMENSIONS NOT INDICATED ON STRUCTURAL DRAWINGS.
5. SECTIONS INDICATED ON PLAN ARE TYPICAL FOR SIMILAR CONDITIONS.
6. EXISTING ELEVATIONS AND DIMENSIONS ARE DERIVED FROM RECORD CONSTRUCTION DRAWINGS AND SHALL BE VERIFIED IN THE FIELD. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCES.
7. LIMITS OF DEMOLITION SHOWN ARE APPROXIMATE AND SHALL BE VERIFIED IN THE FIELD. ADJUST LIMITS AS NECESSARY SO THAT NEW CONSTRUCTION DOES NOT INTERFERE WITH EXISTING CONSTRUCTION.

FRAMING LEGEND

1.	(#' - #")	TOP OF BEAM ELEV. W/ RESPECT TO DATUM ELEVATION = 0' - 0".
2.	(BELOW)	BEAM LOCATED BELOW ANOTHER BEAM IN PLAN
3.	S# / SPAN	ELEVATED SLAB: ARROWS INDICATE SPAN DIRECTION # = SLAB MARK (SEE ELEVATED SLAB SCHEDULE)
4.	R# / SPAN	ROOF DECK: ARROWS INDICATE SPAN DIRECTION # = DECK MARK (SEE ROOF DECK SCHEDULE)
5.	W#	WALL MARK: SEE WALL SCHEDULE
6.	F.D.	F.D. = FLOOR DRAIN (SEE MECH. & ARCH.)
7.	C.O.	C.O. = CLEAN OUT (SEE MECH. & ARCH.)
8.	R.D.	R.D. = ROOF DRAIN (SEE MECH. & ARCH.)
9.	[#'-#"]	TOP OF WALL ELEVATION W/ RESPECT TO DATUM ELEVATION = 0' - 0".

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NO:	DATE:	DESCRIPTION:
REVISIONS		

PROJECT NUMBER: 2171059

DRAWN BY: KRD

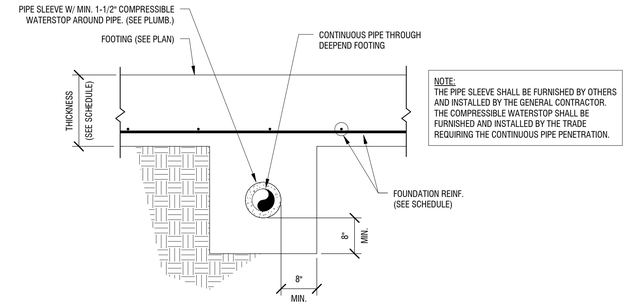
REVIEWED BY: JDL

ISSUED FOR: CONSTRUCTION

DATE: 5/16/2017

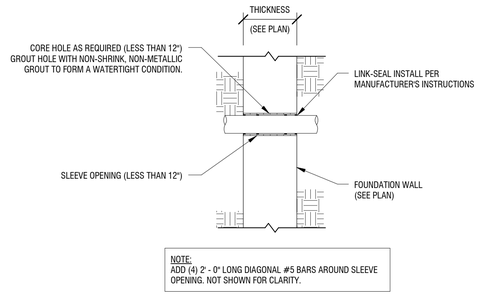
DRAWING NAME: ROOF FRAMING PLAN

DRAWING NUMBER: S-103



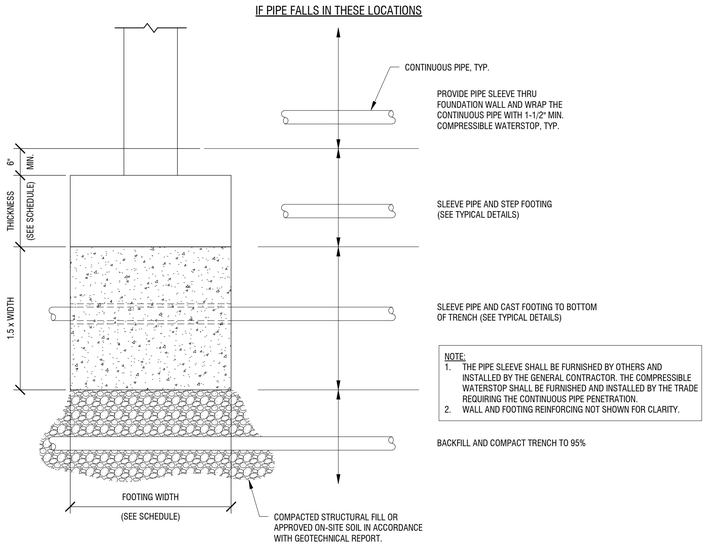
7 S-201 TYPICAL DEEPENED FOOTINGS AT PIPES

NOT TO SCALE



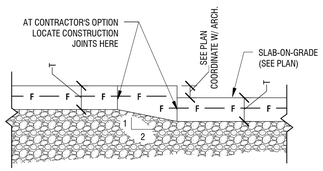
6 S-201 TYPICAL PIPE SLEEVE THRU FOUNDATION WALL

NOT TO SCALE



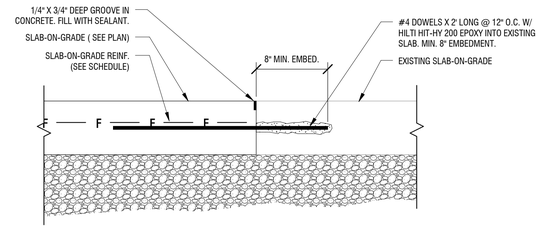
5 S-201 TYPICAL PIPES AT FOUNDATION

NOT TO SCALE



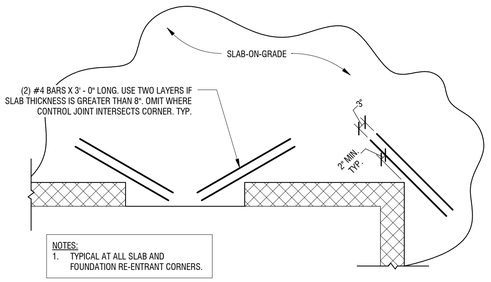
8 S-201 TYPICAL RECESSED SLAB DETAIL

NOT TO SCALE



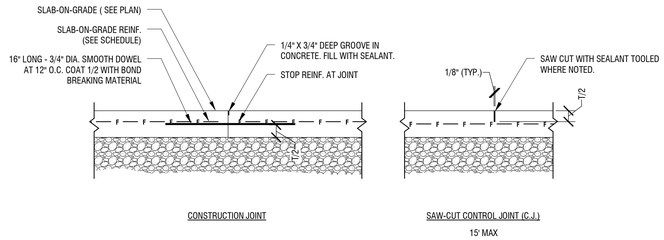
4 S-201 TYPICAL SLAB-ON-GRADE PATCH DETAIL

NOT TO SCALE



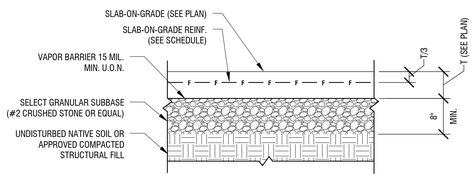
3 S-201 TYPICAL SLAB-ON-GRADE RE-ENTRANT CORNER

NOT TO SCALE



2 S-201 TYPICAL SLAB-ON-GRADE JOINT

NOT TO SCALE



1 S-201 TYPICAL SLAB-ON-GRADE WITH VAPOR BARRIER

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DATE: 5/16/2017

DRAWING NAME:

TYPICAL SLAB-ON-GRADE & FOUNDATION DETAILS

DRAWING NUMBER:

S-201

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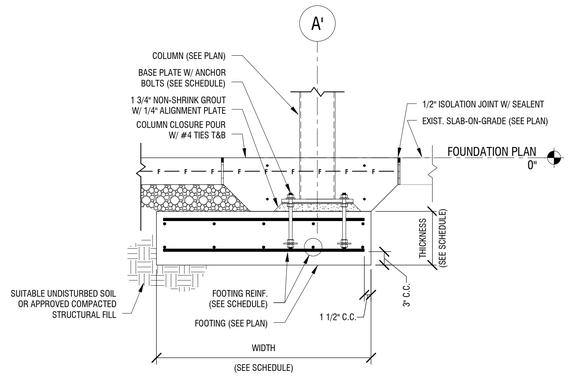
SPLICE & DEVELOPMENT LENGTHS

	BAR SIZE	LAP SPLICE LENGTHS (IN.)					DEVELOPMENT LENGTHS (IN.)		
		TENSION LAP LENGTH							
		TOP BARS		OTHER		COMP.	TENSION	COMP.	HOOKED
	CLASS	A	B	A	B				
f'c = 3,500 psi	#3	20	26	16	20	12	SAME AS CLASS A TENSION LAP SLICE	8	8
	#4	27	35	21	27	15		11	11
	#5	33	43	26	33	19		13	13
	#6	40	52	31	40	23		16	16
	#7	58	75	45	58	27		18	18
	#8	66	86	51	66	30		21	21
	#9	75	97	58	75	34		23	23
	#10	84	109	65	84	39		26	26
	#11	93	121	72	93	43		29	29

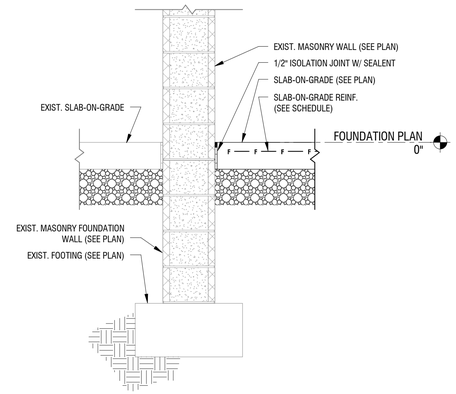
	BAR SIZE	LAP SPLICE LENGTHS (IN.)					DEVELOPMENT LENGTHS (IN.)		
		TENSION LAP LENGTH							
		TOP BARS		OTHER		COMP.	TENSION	COMP.	HOOKED
	CLASS	A	B	A	B				
f'c = 4,500 psi	#3	18	23	14	18	12	SAME AS CLASS A TENSION LAP SLICE	8	7
	#4	24	31	18	24	15		9	9
	#5	30	38	23	30	19		12	12
	#6	35	46	27	35	23		14	14
	#7	51	67	40	51	27		16	16
	#8	59	76	45	59	30		18	18
	#9	66	86	51	66	34		21	21
	#10	74	96	57	74	39		23	23
	#11	82	107	64	82	43		26	26

	BAR SIZE	LAP SPLICE LENGTHS (IN.)					DEVELOPMENT LENGTHS (IN.)		
		TENSION LAP LENGTH							
		TOP BARS		OTHER		COMP.	TENSION	COMP.	HOOKED
	CLASS	A	B	A	B				
f'c = 5,000 psi	#3	17	22	13	17	12	SAME AS CLASS A TENSION LAP SLICE	8	7
	#4	23	29	17	23	15		9	9
	#5	28	36	22	28	19		12	12
	#6	34	43	26	34	23		14	13
	#7	49	63	38	49	27		16	15
	#8	56	72	43	56	30		18	17
	#9	63	81	48	63	34		21	20
	#10	70	92	54	70	39		23	22
	#11	78	102	60	78	43		26	24

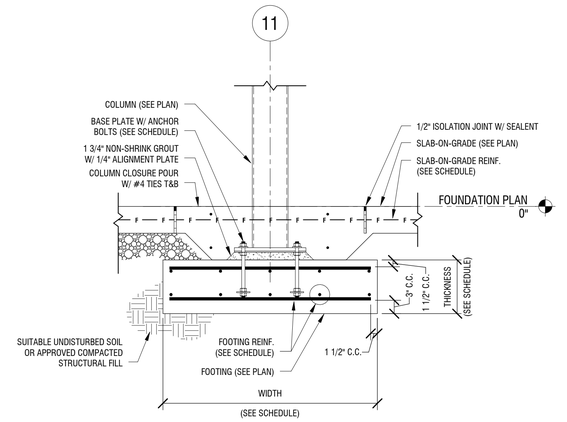
NOTES:
1. TOP BARS ARE HORIZONTAL BARS, PLACED SO THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS PLACED BELOW THE BAR.
2. ALL LAP SPLICES SHALL BE CLASS "B" UNLESS OTHERWISE NOTED.
3. LENGTHS IN THE TABLE ARE FOR UNCOATED OR ZINC-COATED (GALVANIZED) BARS.
4. CLEAR SPACING OF BARS BEING DEVELOPED OR SPLICED NOT LESS THAN 2Db AND CLEAR COVER NOT LESS THAN Db.
5. VALUES IN TABLE ARE FOR NORMAL WEIGHT CONCRETE.
6. SPACING REQUIREMENTS AND END ANCHORAGE SHALL BE SPACED PER THE REQUIREMENTS OF ACI-318.



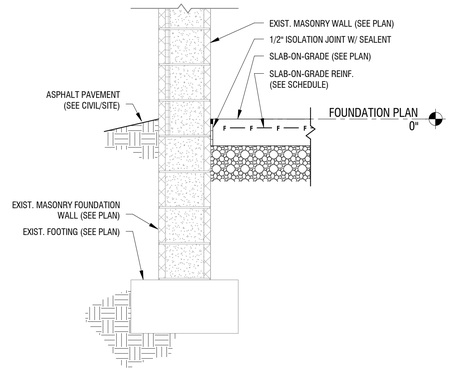
8 S-202 SECTION AT INTERIOR FOOTING
3/4" = 1'-0"



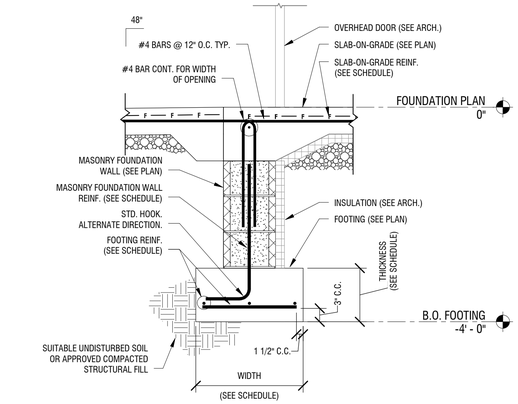
6 S-202 SECTION AT INTERIOR WALL
3/4" = 1'-0"



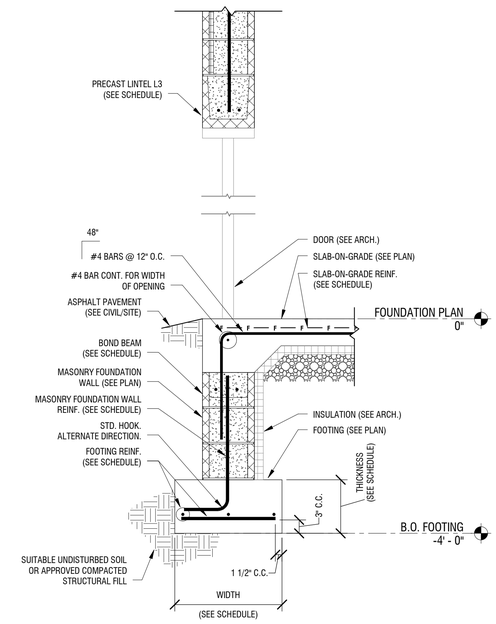
3 S-202 SECTION AT INTERIOR FOOTING
3/4" = 1'-0"



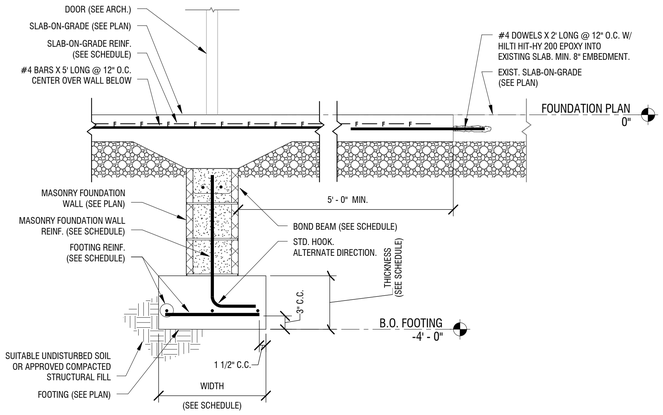
5 S-202 SECTION AT EXTERIOR WALL
3/4" = 1'-0"



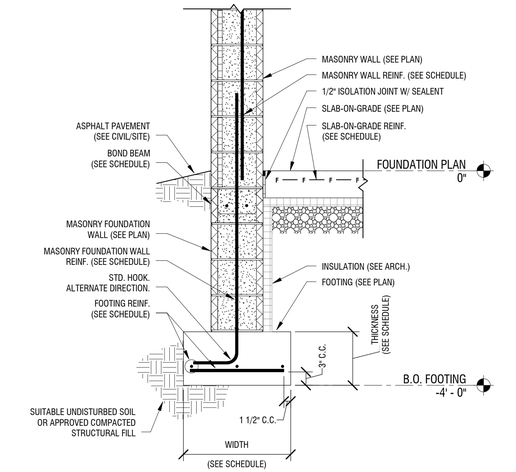
2 S-202 SECTION AT OVERHEAD DOOR
3/4" = 1'-0"



7 S-202 SECTION AT MAN DOOR
3/4" = 1'-0"



4 S-202 SECTION AT INTERIOR DOOR
3/4" = 1'-0"



1 S-202 SECTION AT EXTERIOR FOUNDATION WALL
3/4" = 1'-0"

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SERVICE BAY ADDITION & ALTERATION

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REVIEWED BY: JDL
ISSUED FOR: CONSTRUCTION
DATE: 5/16/2017
DRAWING NAME:

FOUNDATION SECTIONS & DETAILS

DRAWING NUMBER: **S-202**

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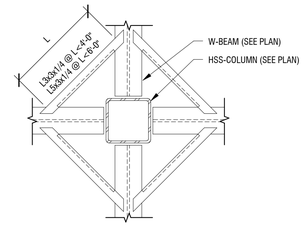
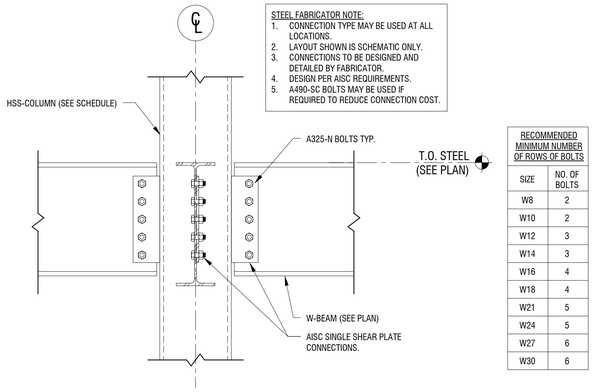
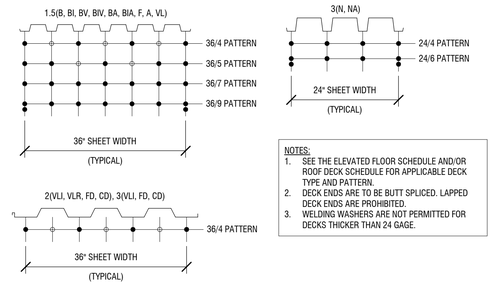


3 S-301 TYPICAL DECK SUPPORT AT HSS-COLUMNS
NOT TO SCALE



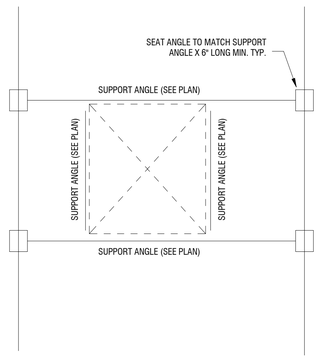
RECOMMENDED MINIMUM NUMBER OF ROWS OF BOLTS	
SIZE	NO. OF BOLTS
W8	2
W10	2
W12	3
W14	3
W16	4
W18	4
W21	5
W24	5
W27	6
W30	6

5 S-301 TYPICAL W-BEAM TO HSS-COLUMN SHEAR CONNECTION
NOT TO SCALE

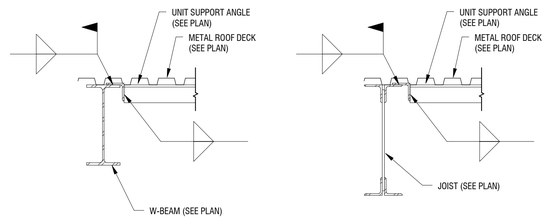


NOTES:
1. SEE THE ELEVATED FLOOR SCHEDULE AND/OR ROOF DECK SCHEDULE FOR APPLICABLE DECK TYPE AND PATTERN.
2. DECK ENDS ARE TO BE BUTT SPLICED. LAPPED DECK ENDS ARE PROHIBITED.
3. WELDING WASHERS ARE NOT PERMITTED FOR DECKS THICKER THAN 24 GAGE.

2 S-301 TYPICAL METAL DECK FASTENING LAYOUT
NOT TO SCALE

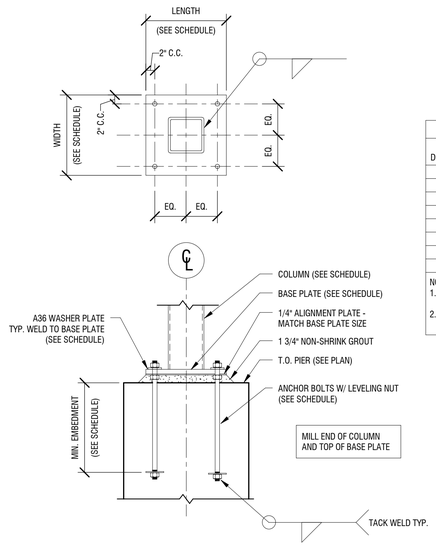


MECHANICAL UNIT SUPPORT FRAME



NOTES:
1. COORDINATE LOCATION WITH ACTUAL EQUIPMENT TO BE INSTALLED AND WITH MECHANICAL , ELECTRICAL, AND PLUMBING DOCUMENTS.

4 S-301 TYPICAL MECHANICAL UNIT SUPPORT
NOT TO SCALE



RECOMMENDED SIZES FOR ANCHOR ROD HOLES IN BASE PLATES			
ANCHOR ROD DIAMETER (INCH.)	HOLE DIAMETER (INCH.)	MIN. WASHER DIMENSION (INCH.)	MIN WASHER THICKNESS (INCH.)
3/4	1 5/16	2	1/4
7/8	1 /16	2 1/2	5/16
1	1 13/16	3	3/8
1 1/4	2 1/16	3	1/2
1 1/2	2 5/16	3 1/2	1/2
1 3/4	2 3/4	4	5/8
2	3 1/4	5	3/4
2 1/2	3 1/4	5 1/2	7/8

NOTES:
1. CIRCULAR OR SQUARE WASHERS MEETING THE SIZE SHOWN ARE ACCEPTABLE.
2. ADEQUATE CLEARANCE MUST BE PROVIDED FOR THE WASHER SIZE SELECTED.

1 S-301 TYPICAL BASE PLATE HSS-SECTION
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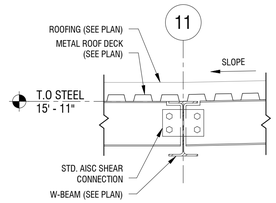
DRAWING NAME:

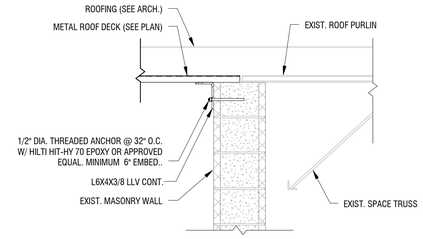
TYPICAL STEEL DETAILS

DRAWING NUMBER:

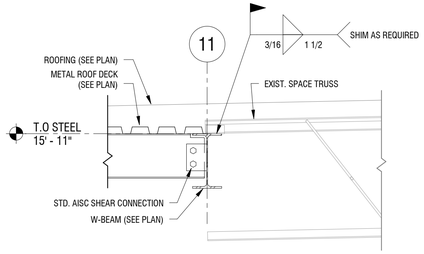
S-301



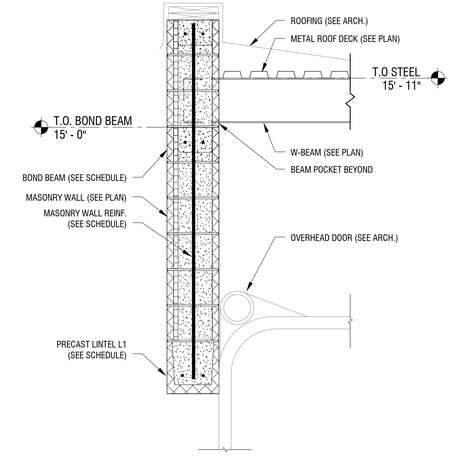
7 S-302 SECTION AT INTERIOR SUPPORT
3/4" = 1'-0"



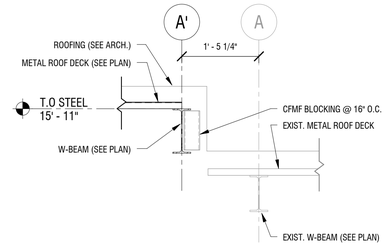
10 S-302 SECTION AT INTERIOR WALL
3/4" = 1'-0"



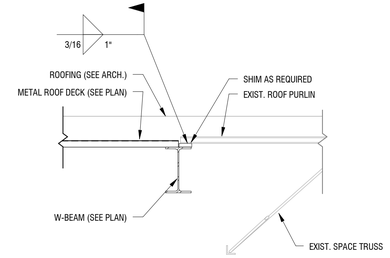
6 S-302 SECTION AT INTERIOR SUPPORT
3/4" = 1'-0"



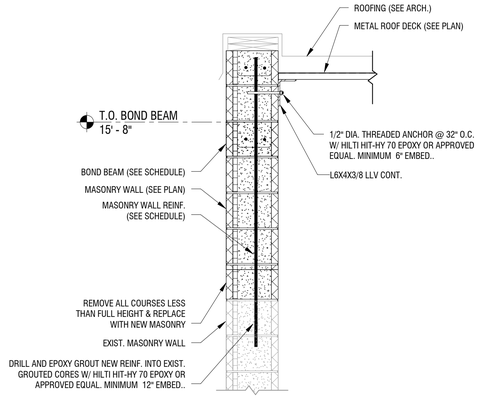
3 S-302 SECTION AT ROOF - OVERHEAD DOOR
3/4" = 1'-0"



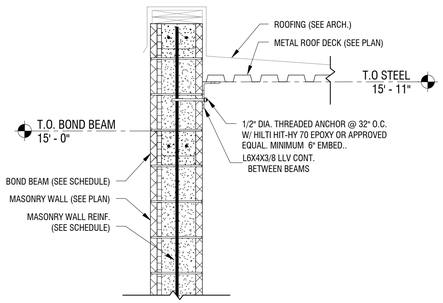
9 S-302 SECTION AT DECK TRANSITION
3/4" = 1'-0"



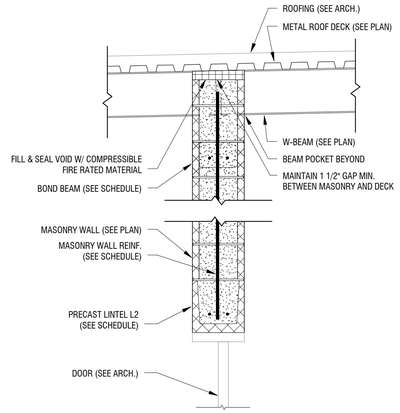
5 S-302 SECTION AT DECK TRANSITION
3/4" = 1'-0"



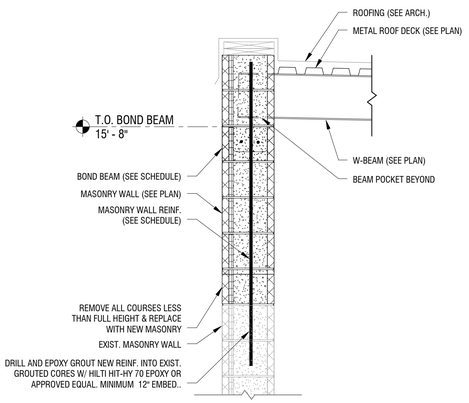
2 S-302 SECTION AT EXTERIOR WALL
3/4" = 1'-0"



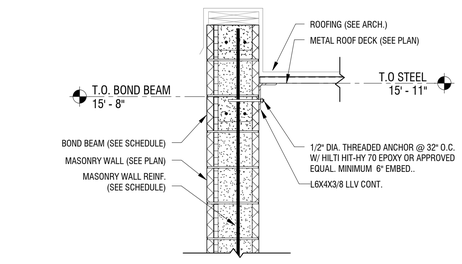
11 S-302 SECTION AT EXTERIOR WALL
3/4" = 1'-0"



8 S-302 SECTION AT INTERIOR WALL
3/4" = 1'-0"



4 S-302 SECTION AT EXTERIOR WALL
3/4" = 1'-0"



1 S-302 SECTION AT EXTERIOR WALL
3/4" = 1'-0"

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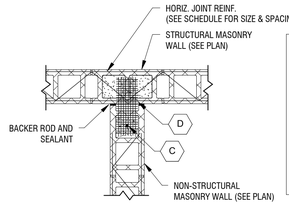
DRAWING NAME:

FRAMING SECTIONS & DETAILS

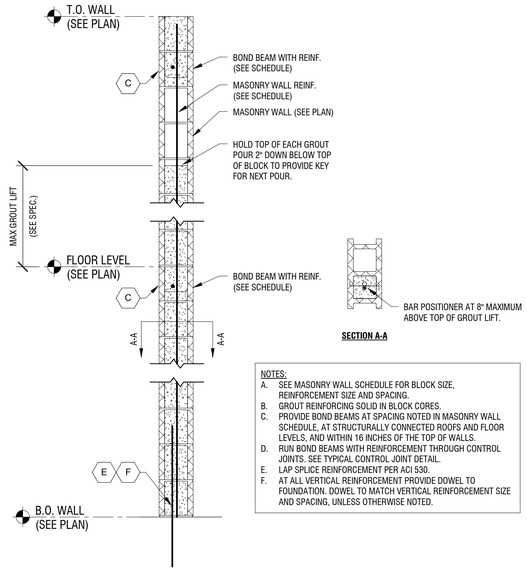
DRAWING NUMBER:

S-302



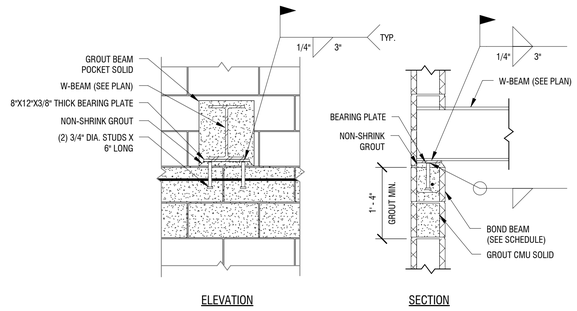
NOTES:
A. THESE DETAILS ARE FOR INTERSECTIONS OF NON-STRUCTURAL TO STRUCTURAL MASONRY WALLS.
B. BALANCE OF VERTICAL WALL REINFORCEMENT NOT SHOWN FOR CLARITY. SEE MASONRY WALL SCHEDULE FOR SIZE AND SPACING.
C. ADDITIONAL VERTICAL BARS TO MATCH WALL REINFORCEMENT. RUN FULL HEIGHT OF WALL & DOWEL INTO FOUNDATION. ADDITIONAL BARS SHALL BE LOCATED WITHIN 8 INCHES OF CORNER OR WALL END.
D. USE PREFABRICATED MESH WALL TIE @ 16" O.C. MAX VERTICALLY. LOCATE AT ALL COURSES WITH HORIZONTAL REINFORCEMENT. SEE MASONRY WALL SCHEDULE FOR REINFORCING SIZE AND SPACING.

5 S-401 TYPICAL NON-STRUCTURAL TO STRUCTURAL MASONRY WALL
NOT TO SCALE

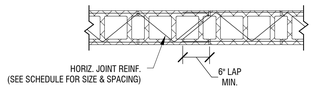


NOTES:
A. SEE MASONRY WALL SCHEDULE FOR BLOCK SIZE, REINFORCEMENT SIZE AND SPACING.
B. GROUT REINFORCING SOLID IN BLOCK CORES.
C. PROVIDE BOND BEAMS AT SPACING NOTED IN MASONRY WALL SCHEDULE, AT STRUCTURALLY CONNECTED ROOFS AND FLOOR LEVELS, AND WITHIN 16 INCHES OF THE TOP OF WALLS.
D. RUN BOND BEAMS WITH REINFORCEMENT THROUGH CONTROL JOINTS. SEE TYPICAL CONTROL JOINT DETAIL.
E. LAP SPLICE REINFORCEMENT PER ACI 530.
F. AT ALL VERTICAL REINFORCEMENT PROVIDE DOWEL TO FOUNDATION. DOWEL TO MATCH VERTICAL REINFORCEMENT SIZE AND SPACING, UNLESS OTHERWISE NOTED.

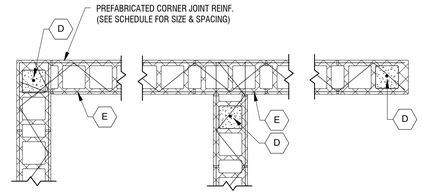
4 S-401 TYPICAL MASONRY WALL REINF.
NOT TO SCALE



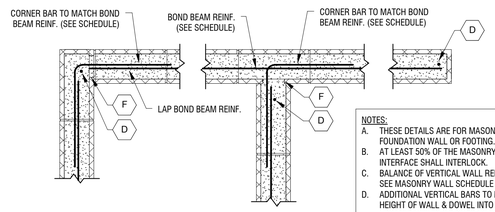
6 S-401 TYPICAL BEAM BEARING ON MASONRY WALL
NOT TO SCALE



HORIZONTAL JOINT REINF. LAP



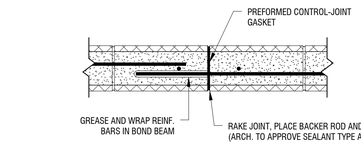
HORIZONTAL JOINT REINF.



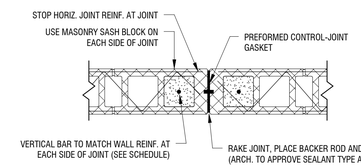
BOND BEAM REINF.

NOTES:
A. THESE DETAILS ARE FOR MASONRY WALLS SUPPORTED ON A CONTINUOUS FOUNDATION WALL OR FOOTING.
B. AT LEAST 50% OF THE MASONRY UNITS AT THE CORNER OR INTERSECTION INTERFACE SHALL INTERLOCK.
C. BALANCE OF VERTICAL WALL REINFORCEMENT NOT SHOWN FOR CLARITY. SEE MASONRY WALL SCHEDULE FOR SIZE AND SPACING.
D. ADDITIONAL VERTICAL BARS TO MATCH WALL REINFORCEMENT. RUN FULL HEIGHT OF WALL & DOWEL INTO FOUNDATION. ADDITIONAL BARS SHALL BE LOCATED WITHIN 8 INCHES OF CORNER OR WALL END.
E. USE PREFABRICATED CORNER AND INTERSECTION JOINT REINFORCEMENT.
F. USE PREFABRICATED CORNER AND INTERSECTION BOND BEAM UNITS OR REMOVE FACESHELL TO ACCOMMODATE REINFORCEMENT BARS & GROUT.

2 S-401 TYPICAL MASONRY WALL CORNER, INTERSECTION, & END
NOT TO SCALE



TYPICAL PLAN AT BOND BEAM



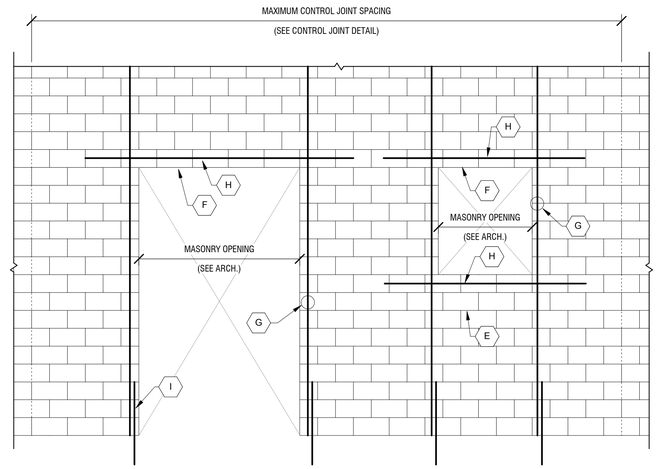
TYPICAL PLAN AT WALL

CONTROL JOINT SPACING CRITERIA:

USE THE LESSER OF THE FOLLOWING:
1. 25' - 0" ON CENTER MAXIMUM.
2. 1.5 MAXIMUM LENGTH TO HEIGHT RATIO.
3. AT LOCATIONS INDICATED ON STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS.

ADDITIONAL LOCATIONS:
1. AT CHANGES IN WALL HEIGHT.
2. AT CHANGES IN WALL THICKNESS.
3. LOCATED ABOVE MOVEMENT JOINTS IN FOUNDATIONS OR FLOORS.
4. LOCATED ABOVE AND BELOW MOVEMENT JOINTS IN ROOFS OR FLOORS THAT BEAR ON WALL.
5. ADJACENT TO CORNER OF INTERSECTIONS WITHIN A DISTANCE EQUAL TO HALF THE CONTROL JOINT SPACING.
6. 2' - 0" MINIMUM AWAY FROM FACE OF OPENINGS.
7. COORDINATE WITH VENEER LOCATIONS.

3 S-401 TYPICAL MASONRY WALL CONTROL JOINT DETAILS
NOT TO SCALE



NOTES:
A. SEE MASONRY WALL SCHEDULE FOR REINFORCEMENT SIZE & SPACING. REINFORCEMENT NOTED IN THIS DETAIL IS IN ADDITION TO THAT NOTED IN THE SCHEDULE.
B. GROUT REINFORCING SOLID IN BLOCK CORES.
C. PLACE CONTROL JOINTS AWAY FROM THE OPENING. SEE MASONRY CONTROL JOINT DETAIL.
D. COORDINATE HEIGHTS, OPENINGS, AND LENGTHS OF WALLS WITH ARCHITECTURAL DRAWINGS.
E. PROVIDE HORIZONTAL JOINT REINFORCEMENT IN FIRST OR SECOND MORTAR JOINT BELOW BOTTOM OF OPENING FROM CONTROL JOINT TO CONTROL JOINT.
F. USE ONLY LINTEL BLOCKS FOR BOTTOM COURSE OF LINTEL OVER OPENINGS. UNLESS OTHERWISE NOTED.
G. PROVIDE JAMB BARS FOR FULL HEIGHT TO MATCH VERT. REINFORCING. JAMB BARS NOT REQUIRED FOR OPENINGS SMALLER THAN 16 INCHES UNLESS DISTRIBUTED VERTICAL REINFORCEMENT IS INTERRUPTED BY SUCH OPENING.
H. EXTEND BOND BEAM AND/OR LINTEL WITH REINFORCEMENT A MINIMUM OF 2' - 0" BUT NO LESS THAN 40 BAR DIAMETERS BEYOND EACH SIDE OF OPENING.
I. AT ALL VERTICAL REINFORCEMENT PROVIDE DOWEL TO FOUNDATION. DOWEL TO MATCH VERTICAL REINFORCEMENT SIZE AND SPACING, UNLESS OTHERWISE NOTED.

1 S-401 TYPICAL MASONRY WALL OPENINGS
NOT TO SCALE

LABELLA
300 State Street | Engineering
Suite 201 | Architecture
Rochester, NY 14614 | Environmental
P: (585) 454-6110 | Planning
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DORSCHEL MINI OF ROCHESTER
3875 WEST HENRIETTA ROAD
ROCHESTER, NY 14623

SERVICE BAY ADDITION & ALTERATION

MINI DORSCHEL
clear. simple. different.

NO:	DATE:	DESCRIPTION:
REVISIONS		

PROJECT NUMBER: 2171059
DRAWN BY: KRD
REVIEWED BY: JDL
ISSUED FOR: CONSTRUCTION
DATE: 5/16/2017
DRAWING NAME:

TYPICAL MASONRY DETAILS

DRAWING NUMBER:

S-401

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DORSCHEL MINI OF ROCHESTER

Service Bay Addition & Alteration

3875 West Henrietta, NY 14623

OUTLINE SPECIFICATIONS

Architect
LaBella Associates, D.P.C.
300 State Street
Rochester, NY 14614
585-454-6110

Contractor
Spoleta Construc
7 Van Auker Street
Rochester, NY 14608
585-436-2701

ISSUED FOR PERMIT: May 17, 2017

OUTLINE SPECIFICATIONS

DORSCHEL MINI OF ROCHESTER SERVICE BAY ADDITION & ALTERATION
3875 W. Henrietta Road, Rochester, NY 14623
PROJECT NO: 2171059

DESCRIPTION:

Construct a building addition approximately 500 s.f. to an existing service wing to provide for a reconfigured space that will include a wash bay, car lift, storage and miscellaneous service work space. Existing equipment to be relocated, minor site work required for new foundations, storm drainage tie-in and concrete walkways.

DIVISION 1 - GENERAL REQUIREMENTS:

Construction shall conform to current editions of the 2015 Building Code of New York State, the 2015 Existing Building Code of New York State, the 2015 Energy Conservation Construction Code of New York State, The 2017 National Electrical Code (NEC), the 2015 Plumbing Code of New York State, the 2015 Mechanical Code of New York State, the 2010 Fuel Gas Code of New York State, the 2015 Fire Code of New York State, and American National Standard for Accessible and Usable Buildings and Facilities (ICC/ANSI A117.1-2003), as well as with all other current local, state and federal codes and regulations applicable to this project.

Manage construction to complete scope of work on time and on budget. Coordinate schedule with Owner and Project Manager.

References to “Owner” shall mean RJ Dorschel Corp., unless otherwise noted.

Contractor is responsible for all materials, construction methods and craftsmanship.

Contractor shall review existing conditions, prior to starting any work.

Contractor to verify all requirements, notes and dimensions prior to the start of construction. Report all discrepancies to the Architect immediately.

Contractor shall be responsible for all changes to these documents. Site visits made by the Architect will not be to verify conformance.

In the event of a dimensional conflict, drawings take precedent over specifications. In the event of a material conflict, specifications shall take precedent over drawings.

Scope of work shall include patch to match (PTM) of any existing areas above, below or beside which are disturbed as a result of construction. The quality of PTM construction shall be equivalent to new. All PTM materials are to match existing unless noted otherwise. When in question, the Contractor shall consult the Owner to determine what the building's "standard" is.

Contractor is responsible for all required temporary protection required to maintain ongoing operations, exiting paths, dust control and occupant safety. It is the Contractor’s responsibility to identify the requirements for temporary protection and project phasing and incorporate that cost into

their base bid. Coordinate with the Owner for other requirements.

Finish material and color selections will be made by the Owner and Architect unless otherwise specified or noted.

Submittals: Submit Shop Drawings, Product Data, and Samples for products to be furnished for this project. If submitting as specified clearly state on submittal AS-SPECIFIED:

Doors, Frames and Hardware
Refer to Mechanical/Electrical Specifications for other requirements.

DIVISION 1 – GENERAL REQUIREMENTS:

014000: QUALITY REQUIREMENTS:

A. CONSTRUCTION PHASE TESTING:

B. SCHEDULE OF STRUCTURAL TESTS AND SPECIAL INSPECTIONS: The following tests are to be managed by the General Contractor and paid for by the Owner. Testing to conform to Section 1704 of the Building Code of New York State. Contractor is to provide a copy of the inspection report and/or certification to the Architect upon completion of the test or inspection.

1. 1704.4: Concrete Construction1704.3.3 High-Strength Bolting & Steel

017700: CLOSE OUT PROCEDURES:

A. REQUIREMENTS AT SUBSTANTIAL COMPLETION: Before requesting inspection for determining date of Substantial Completion, complete the following. List items below that are incomplete in request.
   1. Prepare a list of items to be completed and corrected (punch list), and reasons why the Work is not complete.
   2. Advise Owner of pending insurance changeover requirements.
   3. Submit specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
   4. Obtain and submit releases permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
   5. Deliver tools, spare parts, extra materials, and similar items to location designated by Owner. Label with manufacturer's name and model number where applicable.
   6. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
   7. Complete startup testing of systems.
   8. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
   9. Advise Owner of changeover in heat and other utilities.
   10. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.
   11. Complete final cleaning requirements, including touchup painting.
   12. Touch up and otherwise repair and restore marred exposed finishes to eliminate visual defects.

13. Inspection: Submit a written request for inspection for Substantial Completion. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.

B. REQUIREMENTS AT CLOSE OUT: Before requesting final inspection for determining date of Final Completion, complete the following:
   1. Submit a final Application for Payment.
   2. Submit evidence of final, continuing insurance coverage complying with insurance requirements.
   3. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
   4. Inspection: Submit a written request for final inspection for acceptance. On receipt of request, Architect will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.

DIVISION 2 – EXISTING CONDITIONS:

024116: SHORING AND BRACING: Extent of shoring and bracing work includes, but is not limited to, shoring and bracing necessary to protect existing building and structure and the removal of bracing, as required. Provide suitable shoring and bracing materials, which will support loads imposed. Contractor shall review all related material and coordinate with rigger as required. Shoring materials need not be new, but should be in serviceable condition. Repair or replace, as acceptable to Architect, adjacent work damaged or displaced through the installation or removal of shoring and bracing work.

024119: SELECTIVE STRUCTURE DEMOLITION: Removal of certain exterior items as required for replacement or repair. Removal of certain existing interior construction including HVAC, plumbing and electrical. Salvage of designated items for relocation. Review all salvage and reuse items with the Owner.

DIVISION 3 - CONCRETE:

033000: CAST-IN-PLACE CONCRETE:

1.1 PRODUCTS

A. Concrete General: ACI 301 and ACI 117.

B. Form facing materials.

C. Steel Reinforcement:

1. Reinforcing Bars: Deformed.
2. Welded-Wire Reinforcement: Plain.

D. Concrete Materials:

1. Portland Cement: ASTM C 150, Type I/II.
2. Fly ash.
3. Slag cement.
4. Blended Hydraulic Cement.
5. Silica fume.
6. Aggregate: Normal weight.
7. Water.

E. Mixing: Ready mixed.

1.2 CONCRETE MIXTURES

A. Portland Cement Replacement: Use fly ash, slag cement, and silica fume to reduce portland cement by 20-45 percent.

B. Compressive Strength (28 Days):

1. Footings: 4500 psi.
2. Slabs-on-Grade: 3500 psi.
3. Exterior Concrete: 5000 psi.

1.3 INSTALLATION

A. Formed Finishes: Rubbed.

B. Floor and Slab Finishes:

1. Scratch: Surfaces to receive concrete floor toppings.
2. Float: Surfaces to receive trowel.
3. Trowel: Surfaces exposed to view or to be covered with epoxy paint.
4. Broom: Exterior concrete slabs.

1.4 FIELD QUALITY CONTROL

A. Testing: By Owner-engaged agency.

B. Special Inspections: By Owner-engaged special inspector.

END OF SECTION 033000

033001: CONCRETE SEALER: Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Repeat process within 24 hours after initial application and apply a second coat. Maintain continuity of coating and repair damage during curing period.

036000: GROUTS: Non-shrink grout shall be Quikrete Fast Set or equal. Grout shall meet or exceed the requirements in testing standards ASTM C939, C143, C191, C928, C939, C1090 & C1107. Minimum compressive strength at 28 days 6,500 psi. Install per manufacturers specifications.

DIVISION 4 - MASONRY:

0422000: CONCRETE UNIT MASONRY:

1.1 PERFORMANCE REQUIREMENTS

A. Net-Area Compressive Strengths of Structural Unit Masonry: As indicated.

B. Determine net-area compressive strength of masonry by unit-strength method.

1.2 MATERIALS

A. Concrete Masonry Units (CMUs):

1. Units made with integral water repellent where indicated.
2. CMUs: Normal weight.
3. Insulated CMUs- R-20.

B. Masonry Lintels: prefabricated or built-in-place CMU lintels.

C. Reinforcing Steel: Uncoated-steel reinforcing bars.

D. Masonry-Joint Reinforcement:

1. Interior Walls: Hot-dip galvanized, carbon steel.
2. Exterior Walls: Hot-dip galvanized, carbon steel.

E. Ties and Anchors: Galvanized steel.

1. Adjustable anchors for connecting to structural steel framing.
2. Adjustable anchors for connecting to concrete.
3. Partition top anchors.
4. Rigid anchors.

F. Reinforcing bar positioners.

G. Mortar:

1. Portland cement-lime, masonry cement or mortar cement mortar unless otherwise indicated.

1.3 FIELD QUALITY CONTROL

A. Testing Agency: Owner engaged.

B. Inspections: Special inspections according to Level B in TMS 402/ACI 530/ASCE 5.

C. Testing: One set of tests for each 5000 sq. ft. of wall area.

END OF SECTION 042200

DIVISION 5 - METALS:

051200: STRUCTURAL STEEL FRAMING:

1.1 SUMMARY

A. Structural steel as classified by AISC 303.

B. Grout.

1.2 QUALITY ASSURANCE

A. Fabricator Qualifications: AISC-Certified Plant, Category STD.

B. Shop-Painting Applicator Qualifications: AISC's Sophisticated Paint endorsement or SSPC-QP 3.

C. Quality Standards: AISC 303 and AISC 360.

1.3 PERFORMANCE REQUIREMENTS

A. Fabricator to select or complete simple shear connections, including engineering analysis by a qualified professional engineer, to withstand design loads.

1.4 MATERIALS

A. Structural-Steel Shapes: W-shapes, channels, angles, plate, and bar cold-formed hollow structural sections.

B. Steel castings.

C. Steel forgings.

D. Bolts, Nuts, and Washers: High strength.

E. Anchor Rods: Unheaded rods, nuts, plate washers, and washers.

F. Connectors: threaded rods.

G. Primer: Fabricator's standard, nonasphaltic.

H. Grout: Nonmetallic, shrinkage resistant.

1.5 FABRICATION

A. Shop Connections:

1. High-Strength Bolts: Snug tightened.
2. Welded connections.

B. Galvanize: Lintels, shelf angles and welded door frames located in exterior walls.

1.6 SOURCE QUALITY CONTROL

A. Testing Agency: Owner engaged.

1.7 INSTALLATION

A. Field Connections:

1. High-Strength Bolts: Snug tightened.
2. Welded connections.

1.8 FIELD QUALITY CONTROL

A. Special Inspector: Owner engaged.

B. Testing Agency: Owner engaged.

END OF SECTION 051200

053100: STEEL DECKING:

1.1 MATERIALS

A. Roof Deck: Galvanized- steel sheet.

1. Profile Depth: As indicated.

B. Accessories: girder fillers, end closures, Z-closures, and cover plates recessed sump pans and flat sump plates.

1.2 INSTALLATION

A. Roof Deck: Welded or Mechanically fastened.

1.3 FIELD QUALITY CONTROL

A. Testing Agency: Owner engaged.

END OF SECTION 053100

055000: METAL FABRICATIONS:

1. Provide loose bearing and leveling plates, loose steel lintels, shelf and relieving angles and miscellaneous framing and supports. Provide ferrous materials as follows:
   (a) Steel Plates, Shapes and Bars: ASTM A 36.
   (b) Brackets, Flanges, and Anchors: Cast or formed metal.
   (c) Zinc-Coating: Hot-dip galvanized coating for materials in exterior assemblies or exterior walls.
2. Structural steel shall conform to 1989 American Institute of Steel Construction (AISC) specifications and code of standard practice. The length of framed beam connections shall be approximately equal to the at@ distance of the smaller beam unless otherwise noted. Structural steel shall be shop painted with an alkyd primer paint. Touch up all field welds and exposed or rusted areas after fabrication complete with same primer paint. Connections shall be designed for 1.0 times the end reactions computed from the table "uniform load constants" in the AISC manual unless otherwise noted. Bolts shall be ASTM A325 unless otherwise noted. Anchor bolts shall be ASTM A307 or ASTM A36. Welding shall conform to AWS D1.1. Electrodes shall be e70xx. Weld continuously, grind flush and make smooth on exposed surfaces. Contractor shall take field measurements prior to preparation of shop drawings and fabrication. Do not delay job; allow for cutting and fitting if field measurement not practical. Install work plumb and level with hairline joints and ground flush welds. Lintels: Provide sizes indicated with 8" (minimum) bearing at each end.

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DIVISION 6 - WOOD & PLASTICS:

061053: MISCELLANEOUS ROUGH CARPENTRY: fire treated wood blocking as required for equipment etc. DANBACK or approved. Coordinate locations for all equipment with Owner prior to installing gypsum board on framing. No. 2 hem fir or better with minimums of: Fb = l,l50 psi.; Fv = 75 psi.; E = 1,400,000 psi.

DIVISION 7 - THERMAL & MOISTURE PROTECTION:

072100: THERMAL INSULATION

A. Rigid Board Insulation (for below grade):
   1. Type: Extruded polystyrene, rigid, ASTM C 578, Type IV.
   2. Dow Square Edge or approved equal by Owens Corning or Tenneco.
B. Foil-Faced, Polyisocyanurate Board Insulation (for roof):
   1. Type I, Class 2, ASTM C 1289, with maximum flame-spread and smoke-developed index of 450
   2. Atlas Roofing Corporation, .Dow Chemical Company, R-max, Inc, Hunter Panel Insert
C. Vapor Barrier (where not Integral with Insulation):
   1. Type: Polyethylene, ASTM D 4397, 6 mils, 0.13 perm vapor transmission rating.
   2. Vapor barrier tape as recommended by the manufacturer.
D. Accessories.
   1. Adhesives and mechanical anchors.
   2. Crack / joint sealers and tapes.

075323: EPDM MEMBRANE ROOFING:

A. Fully Adhered System. ASTM D 4637, Type II, fabric internally reinforced uniform, flexible sheet made from EPDM, and as follows:
B. Manufacturers: Subject to compliance with requirements, provide products by the manufacturers specified or approved equal.
   1. Carlisle SynTec Incorporated.
   2. Firestone Building Products Company.
C. Thickness: 60 mils(1.5 mm), nominal.
D. Exposed Face Color: White.
E. Roof Board: 5/8" Dens Deck Prime.
F. Provide all required fasteners and accessories for a complete installation. Provide standard. manufacturer's 10 year warranty. Product shall be installed by a certified installer with a minimum of 3 years of experience with approved product.

076200: SHEET METAL FLASHINGS AND ROOF TRIM:

Prefinished .040" aluminum drip edge, gravel stop, flashing, coping and other shapes as shown on drawings. Aluminum Sheet: ASTM B 209(ASTM B 209M), Alloy 3003, 3004, 3105, or 5005, Temper suitable for forming and structural performance required, but not less than H14, finished as follows:

Siliconized-Polyester Coating: Epoxy primer and silicone-modified, polyester-enamel topcoat. Color: As selected by Architect from manufacturer's full range to match existing.

078413: PENETRATION FIRESTOPPING: Review cover sheet "Code Review Information" and Code Plan for fire separation requirements. Consult with Architect if unsure about locations or required rating.

A. One-Part Fire-Stopping Sealant: For sealing openings around cables, conduit, pipes and similar penetrations through fire rated walls and floors and at joints between partitions and roof or floor decks. Sealant must be red in color. Use only at penetrations in fire rated walls and floors.
   1. "3M Fire Barrier Caulk CP-25WB+"; Electrical Products Div./3M.
   2. "FS-One", Hilti
   3. "TPS Type I", Isolatek
   4. "TPS Type C", Isolatek
   5. "Series 100 Sealant", Specified Technologies, Inc.
   6. "2000 Series Sealant", 3M
   7. Or approved equal.

B. Fire-Stopping Systems: Where elastomeric sealants are not applicable to conditions encountered, provide UL listed fire-stopping systems including putty, mortar, foam, intumescent pillows or rigid board. Materials must be red in color or must consist of devices and hardware that are readily identifiable as being a part of a UL listed assembly. Manufacturers: 3M Fire Protection Products, Hilti, Isolatek International, Nelson Firestop Products, Specified Technologies, Inc., United States Gypsum Co.

079200: JOINT SEALANTS: Install appropriate sealant and foam backer rod where shown and at all joints exposed to weather.

A. ONE-PART NONACID-CURING SILICONE SEALANT: For exterior vertical applications, Type S; Grade NS; Class 25. Uses NT, M, G, A, and, as applicable to joint substrates indicated.
   1. "Chem-Calk 1200"; Bostik Construction Products Div.
   2. "Dow Corning 790"; Dow Corning Corp.
   3. "864"; Pecora Corp.
   4. "Spectrem 2"; Tremco, Inc.

B. ONE-PART POURABLE URETHANE SEALANT: for Horizontal surfaces, use T: Type S, Grade P, Class 25:
   1. "Chem-Calk 950"; Bostik Construction Products Div.
   2. "Vulkem 45"; Mameco International, Inc.
   3. "NR-201 Urexpan"; Pecora Corp.
   4. "Sonolastic SL-1"; Sonneborn Building Products Div, Rexnord Chemical Products Inc.

C. SILICONE LATEX JOINT SEALANTS: For exposed interior use. Pecora AC-20+Silicone"

D. INTERIOR ACOUSTICAL SEALANTS FOR CONCEALED JOINTS:
   1. "BA-98"; Pecora Corp.
   2. "Tremco Acoustical Sealant"; Tremco Inc.

E. TRAFFIC GRADE SEALANT: for exterior use at concrete aprons. Tremco Spectrum 800 Highway and Parking Structure Sealant. Low-modulus, self-leveling silicone, high-performance, one-part, gun grade.

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DIVISION 8 - DOORS:

081113: HOLLOW METAL DOORS AND FRAMES:

A. MANUFACTURERS: Steelcraft, Ceco, Fleming, Curries, Pioneer or approved equal.
B. FRAMES: 14 gauge galvanized welded frames at exterior locations. 16 gauge primed all interior locations: knock down typically except welded at: double doors, cross corridor doors, doors with automatic operators, doors 42" or more wide.
C. DOORS: 18 gauge flush steel seamless doors (HMMA861). UL labeled fire rating as shown or required. LIGHT FRAMES: Standard 18 gauge frames matching Marshfield #115 at rated doors. Marshfield W-6 at unrated and 20 minute rated doors.

087100: DOOR HARDWARE:

A. HINGES: Reuse existing to be relocated as noted.
B. LOCK CYLINDERS AND KEYING: Reuse existing to be relocated as noted.
C. FINISHES: Existing

DIVISION 9 - FINISHES:

09671: RESILIENT RESINOUS (Epoxy EX-1) FLOORING

GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

A. This Section includes the following:
1. General-use epoxy flooring for service bay.
2. Work of this Section includes all labor, materials, equipment and services necessary to prepare the new slab and complete multi-layered troweled waterproof floor surfacing as scheduled on the drawings and/or specified herein.

B. Related Sections include the following:
1. Concrete - Section 03300.
a. Concrete slab should be either water cured or cured using sodium silicate curing compounds only. Other types of curing compounds are generally not acceptable. Concrete should be cured for a minimum of 28 days.
2. Floor drains - Division 15.
a. Floor drains, clean-outs, etc. should match existing and be installed per manufacturers recommendations.
3. Joint Sealants – Division 7

1.3 SUBMITTALS

A. Maintenance Data: For resilient products to include in maintenance manuals.

B. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.

C. Product Data: Submit manufacturer's technical data, application instructions and general recommendations for multi-layered troweled waterproof flooring surfacing specified herein.

D. Samples for initial selection purposes in form of manufacturer's color charts showing full range of colors and finishes available.
Submit 2-1/2" x 4" samples in color as selected.

E. Material certificates signed by manufacturer certifying that the multi-layered troweled waterproof flooring surfacing complies with requirement specified herein.

F. Maintenance Instructions: Submit manufacturer's written instructions for recommended maintenance practices.

PRODUCTS

2.1 MANUFACTURERS

A. Available products: Subject to compliance with requirements, products that may be incorporated into the work include:
1. NDex-O-Tex M-E Flooring or approved equal.
2. General Polymers Corp.

END OF SECTION 09651

099100: PAINTING: Prepare existing surfaces as required to receive new finishes: clean, remove adhesives, patch and spackle, and sand. Colors to be selected by Owner and Architect. Provide the following paint systems for the various substrates, as indicated.
A. MANUFACTURERS: Pratt and Lambert or approved equal.
B. INTERIOR METAL:
1. Semi-Gloss Emulsion Finish: 3 Coats.
a. First Coat: P&L Suprime "3"
b. Second and Third Coats: P&L Accolade Interior Semi-Gloss
C. EXTERIOR METAL (UNGALVANIZED IRON OR STEEL, ALUMINUM):
1. Gloss Alkyd Enamel Finish: 3 coats.
a. First Coat: P&L Suprime "9"
b. Second and Third Coats: P&L RedSeal Interior/Exterior Oil Gloss
D. CONCRETE MASONRY UNITS & DIRECT APPLIED FINISH SYSTEM:
1. Eggshell Emulsion Finish: 3 Coats.

a. First Coat: P&L Pro-hide Silver Heavy Duty Block Filler
b. Second and Third Coat: P&L Pro-Hide Gold Low Odor Eggshell

DIVISION 10 – SPECIALTIES:

102123: AUTO-GUARD WASH BAY CURTAIN:

A. Manufacturer: To be selected by Owner
B. Track: Heavy gauge galvanized steel
C. Curtain: Durable 18 oz vinyl reinforced with clear vinyl vision panel, hemmed edges and resistant to wash down chemicals. Curtains to be Owner Furnished, Contractor Installed
D. Carriers to be roller type
E. Provide system with all necessary accessories for complete installation and proper operation including adequate carriers for the installation, end stops, splices, clips and fasteners.

104400: FIRE PROTECTION SPECIALTIES: Relocate existing fire extinguisher as indicated on drawing.

DIVISION 11 - EQUIPMENT: Reuse existing to be relocated as noted.

DIVISION 12 - FURNISHINGS: (NOT NEEDED FOR THIS PROJECT)

DIVISION 13 - SPECIAL CONSTRUCTION: (NOT NEEDED FOR THIS PROJECT)

DIVISION 14 - CONVEYING SYSTEMS:

14450: VEHICLE LIFTS:

A. Owner Furnished, Contractor installed.
B. Manufacturer: Hunter Engineering Company – model RX10FT-ISBLK FLUSH MOUNT SCISSOR LIFT RACK and 20-2766-1 RX Lift LED Lighting Kit – See attachment.

DIVISION 15 - MECHANICAL:

Mechanical systems are existing to remain unless otherwise as noted on plans. All mechanical work in accordance w/ federal, state, and local codes. Contractor shall deliver to the Owner complete and legal systems, tested in all respects and ready for operation. Contractor shall pay all fees, secure all permits and arrange for all testing required for mechanical system.

All mechanical equipment shall be warranted for a period of one year from the Date of Substantial Completion. The contractor shall guarantee, in writing, all equipment installed under this contract.

During the guarantee period, all defects shall be remedied without cost to the Owner. The contractor shall at the time of closeout instruct the owner in the proper operation of the systems, and supply the owner with all maintenance and operating instructions, along with his written guarantee and manufacturer's warranties, all bound in folders.

All gas piping in conformance with local utility company requirements. .

All HVAC work shall be as designed. All HVAC work shall be new and complete in all respects. Coordinate installation and placement of utility connections to ensure proper equipment operation. Balance system to CFM's shown on drawings.

DIVISION 16 - ELECTRICAL:

Electrical systems are existing to remain unless otherwise as noted on plans. All electrical work in conformance w/ latest edition of National Electric Code (N.E.C). Furnish all materials, accessories, fittings, fixtures and equipment; perform work required to deliver electrical systems in a complete, proper and legal working order.

The total electrical system must be inspected by the New York Board of Fire Underwriters. The contractor secure a rough and final inspection and furnish certificates of final approval form the Underwriters Inspection Bureau. All materials, equipment and devices shall be new, installed in a workmanlike manner and clearly marked to identify manufacturer, model and UL Rating.

All electrical systems shall be warranted for a period of one year from the date of project Date of Substantial Completion. The contractor shall guarantee, in writing, all equipment installed under this contract. During the guarantee period, all defects shall be remedied without cost to the Owner. The contractor shall, at the time of closeout, instruct the Owner in the proper operation of the systems, and supply the owner with all maintenance and operating instructions, along with his written guarantee and manufacturer's warranties, all bound in folders.

All conduit and wiring shall be concealed form view. Support all wiring as per N.E.C. Wire all circuits. Clean all lighting fixtures, provide and install lamps, bulbs or tubes at completion of job. Provide typed panel schedules to properly fit panel schedule holder in box. Mark all circuit breaker schedules. Duplex outlet and switch covers to be stainless steel. All devices shall be as required by Code.

Smoke detectors system shall be installed in accordance w/ U.L., N.E.C., NYS Bldg. Code and Town requirements. System shall be tested prior to acceptance.

Relocate existing exit signs, fire alarm pull stations, strobe devices, audio devices, that are in project scope of work.

Refer to scopes of work for all cutting and patching regarding this work.

DIVISION 22 – PLUMBING

Existing Plumbing to remain unless otherwise as noted on plans. All plumbing work in accordance w/ federal, state, and local codes. Contractor shall deliver to the Owner complete and legal systems, tested in all respects and ready for operation. Contractor shall pay all fees, secure all permits and arrange for all testing required for plumbing system. All water, waste and vent lines, and plumbing fixtures are to be securely supported with proper hangers from structure or equipment carriers. All valves are to be tagged. Test and disinfect water lines per local water department requirements. All wall hung fixtures shall be on floor mounted arm-type carriers.

Perform all excavation, backfilling, compaction in accordance with Village/City/Town requirements.

221301: FACILITY WASTE WATER SYSTEMS:

A. Manufacturer: Zurn Trench Drain System - model Z884 with composite grate.
B. Floor Drain at lift pit to match existing floor drains and installed per manufacturers recommendations.

DIVISION 31 – EARTHWORK

312000: EARTHWORK: Provide gravel or crushed stone for sub-base materials. Provide mineral soil substantially free from organic and unsuitable materials, and free from rock or gravel larger than 2" in diameter for common fill materials. Place fill in 6"-8" lifts and compact each lift to at least 95% of maximum density as determined by the Modified Proctor Method. Slope all grades away from building.

DIVISION 32 – EXTERIOR IMPROVEMENTS

321216: ASPHALT PAVING: Patch to match at areas disturbed by new work. Saw cut areas of pavement to be removed. Tack coat edges of pavement repair before paving. Perform work in accordance with NYSDOT, Section No. 401 – Plant Mix Pavements – General.

031313: CEMENT CONCRETE PAVING: Portland cement concrete for sidewalks and aprons, structures

END OF SPECIFICATION

RX10FT-IS (RX LIFT RACK WITH INFLATION STATION)
FLUSH-MOUNT SCISSOR LIFT RACK SITE REQUIREMENTS

RX10FT-IS lift racks are installed in a shallow pit to place the surface of the runways flush with the floor when the lift is in the fully lowered position. All flush-mount scissor lift racks have ramps on both ends to allow for drive-thru shop configuration.

IMPORTANT:	Use attached *Pit Construction Drawings* to determine if the selected site is suitable.

NOTE:	For RX10JFT and RX10FT-PS (RX with NO inflation Station), refer to Form 6187-T.

Pit Construction

- ☐ Choose the *Pit Construction Drawing* that best suits the shop's desired layout:
  - Page 3 Console located at rear (approach-end) of lift rack
  - Page 4 Console located at front (turnplate-end) of lift rack
  - Page 5 Console located at alternative front location (at aligner console in front of rack)
- ☐ The Hunter representative and shop owner are to work together to complete *Pit Construction Drawing* by determining dimensions and details for topics A, B and C.
  - A. Bay door clearance and space for alignment sensors.
  - B. Console's location, distance from pit and side of pit.
  - C. Additional in-ground conduit beyond the required console-to-pit conduit.
- ☐ Provide contractor with completed *Pit Construction Drawing*.
  - Additional details of runway anchoring and console is also available (pages 6 and 7).

Site

Bay Length

- Hawkeye (HS) Series Sensors require a specified amount of space at the front of the lift. *Refer to the appropriate Hawkeye Site Requirements.*
- The rear overhang of longer vehicles may prevent the closure of bay door. A distance of 39 inches (991 mm) from the garage entrance to the back edge of the pit will accommodate most vehicles.

Bay Height

- Minimum ceiling height of lift area is 13 feet (3962 mm). Lift elevates 72 inches (1829 mm) above pit floor.

Power Requirements

- 208/230 VAC, single phase power, 60 Hz
- Wiring and circuit breakers should be sized according to local electrical codes to provide 25 Amp draw available at motor.
- Availability of specified power is necessary to install lift rack. Temporary power connection is acceptable.

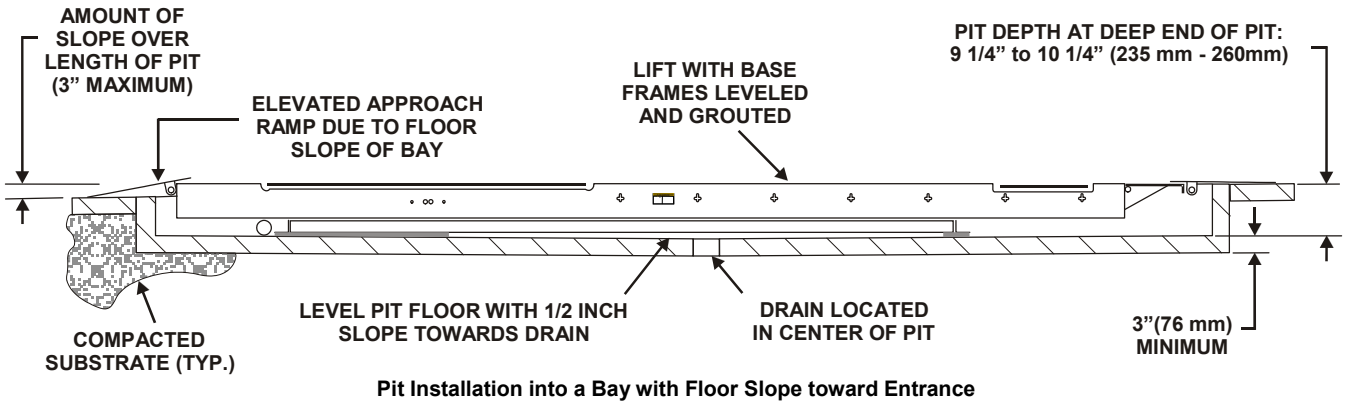
Air Requirements

- 125-150 PSI (8.6-10.3 bar)
- Rack only requires 90 PSI (6.2 bar), but jacks require 125 PSI (8.6 bar) for full capacity operation.

Pit Requirements

- 3 inches (76 mm) thick with a 3000 PSI (20,700 kPa) rated concrete
- Drain or sump must be included in pit. Flooding will void product warranty.
- Approach and exit ramps require a smooth floor for best function. Tile or other irregularities may cause ramps to hang-up
- Ideal bay for pit installation would have a level floor (no floor slope over the length of pit).

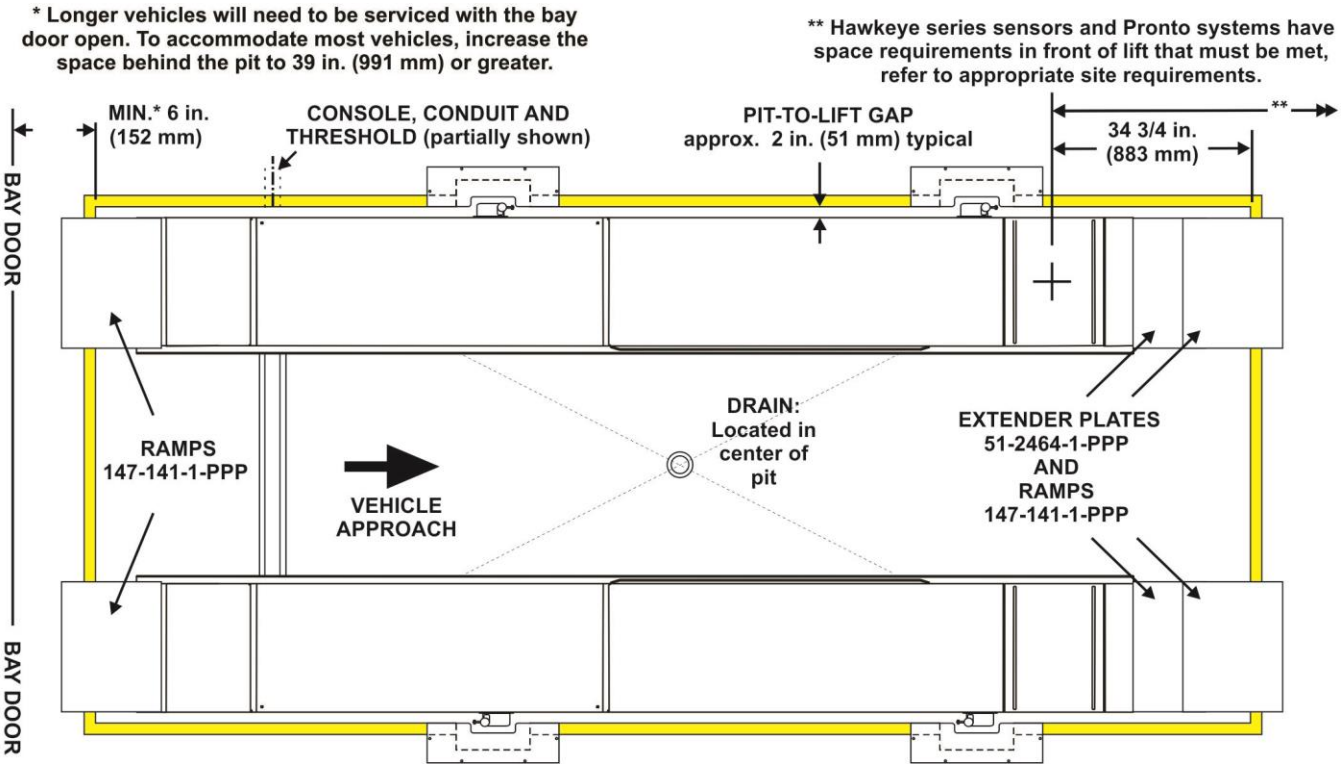
- Significant slope of the bay floor toward the bay entrance will result in the approach end of rack setting above grade when the lift is in the lowered positioned. The approach ramps will elevate an amount that is equal to the amount the bay floor lowered over the length of pit. 3 in. (76 mm) maximum recommended.



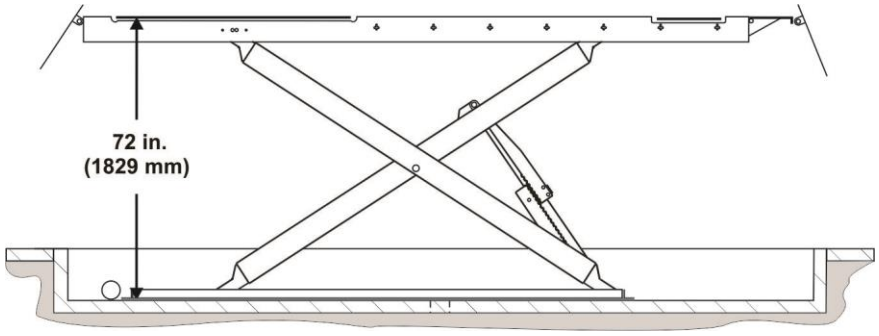
Pit Installation into a Bay with Floor Slope toward Entrance

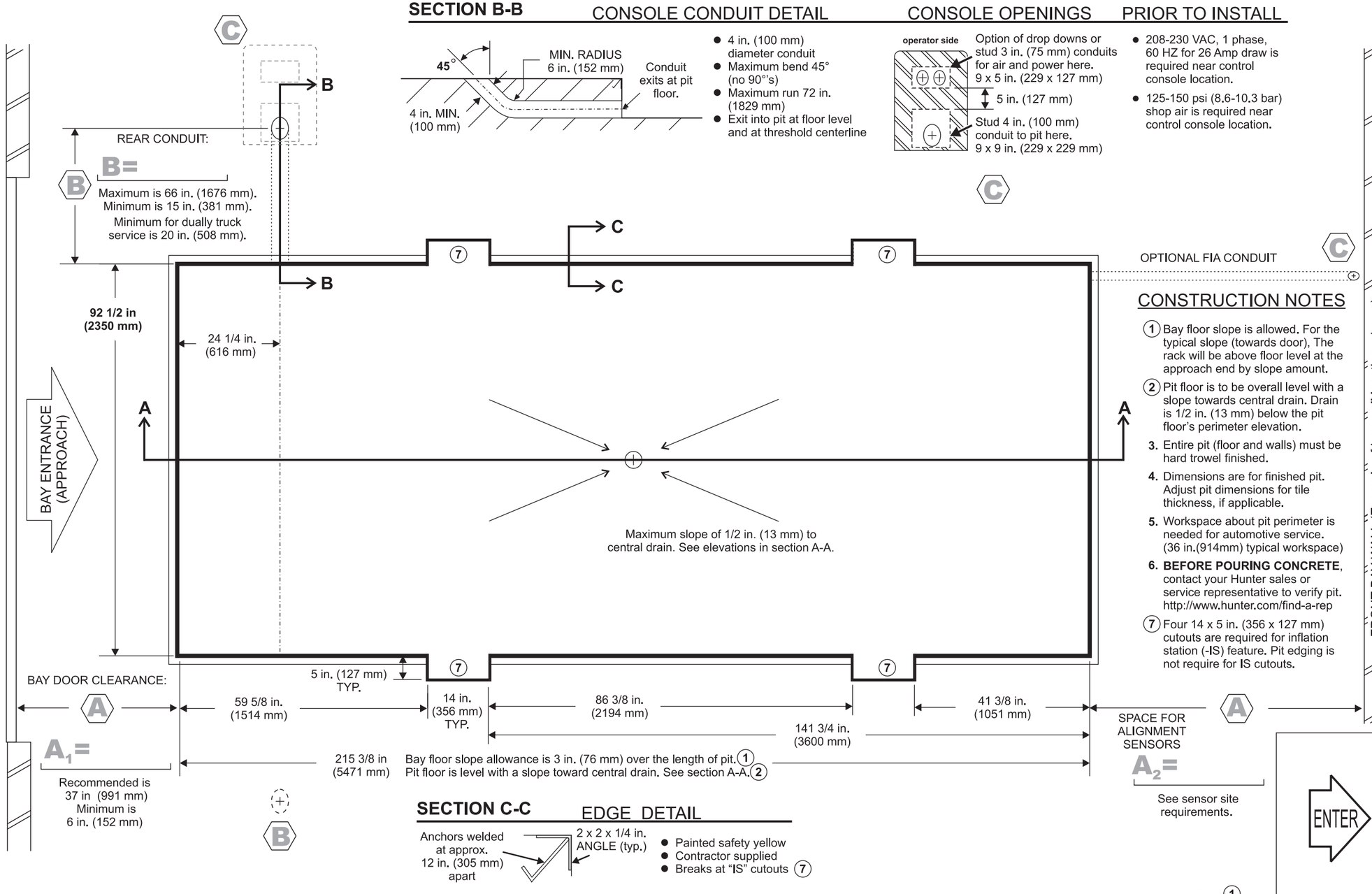
- Elevated ramps will clatter when vehicle is driven onto rack. This condition will not hurt vehicle. Depending on the amount of height difference due to bay floor slope and weight of vehicles serviced, the approach ramp may begin to deform over time. Building-up approach edge of pit will alleviate condition.

Simplified Plan View and Elevation View



⚠ WARNING: Pit-to-lift gap of 2 inches all the way around the lift is important for safety.





SECTION B-B CONSOLE CONDUIT DETAIL

- 4 in. (100 mm) diameter conduit
- Maximum bend 45° (no 90°'s)
- Maximum run 72 in. (1829 mm)
- Exit into pit at floor level and at threshold centerline

CONSOLE OPENINGS PRIOR TO INSTALL

- 208-230 VAC, 1 phase, 60 HZ for 26 Amp draw is required near control console location.
- 125-150 psi (8.6-10.3 bar) shop air is required near control console location.

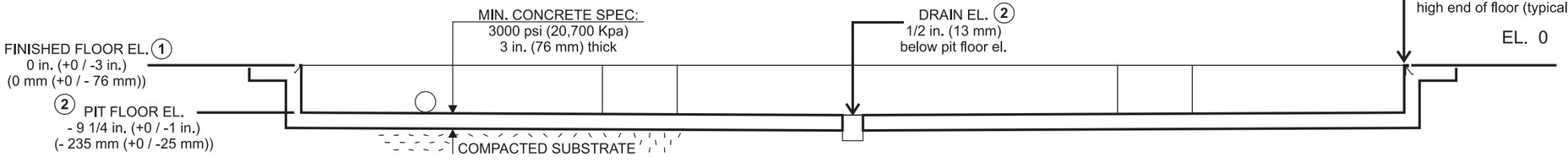
CONSTRUCTION NOTES

1. Bay floor slope is allowed. For the typical slope (towards door), The rack will be above floor level at the approach end by slope amount.
2. Pit floor is to be overall level with a slope towards central drain. Drain is 1/2 in. (13 mm) below the pit floor's perimeter elevation.
3. Entire pit (floor and walls) must be hard trowel finished.
4. Dimensions are for finished pit. Adjust pit dimensions for tile thickness, if applicable.
5. Workspace about pit perimeter is needed for automotive service. (36 in.(914mm) typical workspace)
6. **BEFORE POURING CONCRETE**, contact your Hunter sales or service representative to verify pit. http://www.hunter.com/find-a-rep
7. Four 14 x 5 in. (356 x 127 mm) cutouts are required for inflation station (-IS) feature. Pit edging is not require for IS cutouts.

SECTION C-C EDGE DETAIL

- Painted safety yellow
- Contractor supplied
- Breaks at "IS" cutouts 7

SECTION A-A PIT CONSTRUCTION DETAIL



INDIVIDUAL SHOP LAYOUT

Owner needs to decide the best location for the lift rack, console and in-ground conduit to accommodate their facility plan.

A PIT PLACEMENT WITHIN BAY: Space in front of the lift rack for alignment equipment should be considered. Sensor space requirements are flexible to accommodate a variety of bays. Refer to the sensor's site requirements.

Example:
64 1/4 in. (1632 mm) in front of the pit (A_2) is needed for a floor-mount, Hawkeye sensor.

Accommodations behind the lift rack (A_1) for the overhang of large vehicle should also be considered.

B CONSOLE LOCATION / CONDUIT: 4-inch (100 mm) conduit is required from rack to console. Location of console is to be determined by owner.

This drawing shows rear console location.

Console can be located on opposite side of pit; same distance limitations and requirements apply.

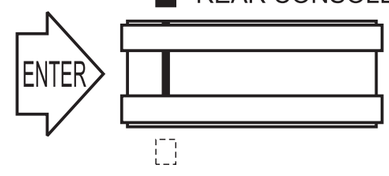
Various console locations are specified on separate drawings.

C ADDITIONAL IN-GROUND CONDUIT: Optional below-ground conduits may be needed to complete desired installation.

Power and shop air are required at console. Openings within console base are shown to accommodate plans to have conduit come-up within console.

Optional conduit for FIA communication between console and alignment console is another consideration.

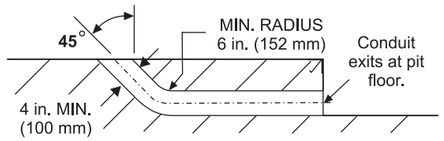
Abide by all local codes for in-ground conduits. General conduit recommendation is large diameter with bends no greater than 45°.



RX10FT-IS

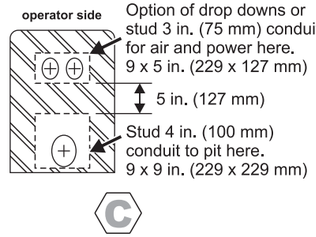
WITH CONSOLE AT REAR OF PIT

SECTION B-B CONSOLE CONDUIT DETAIL



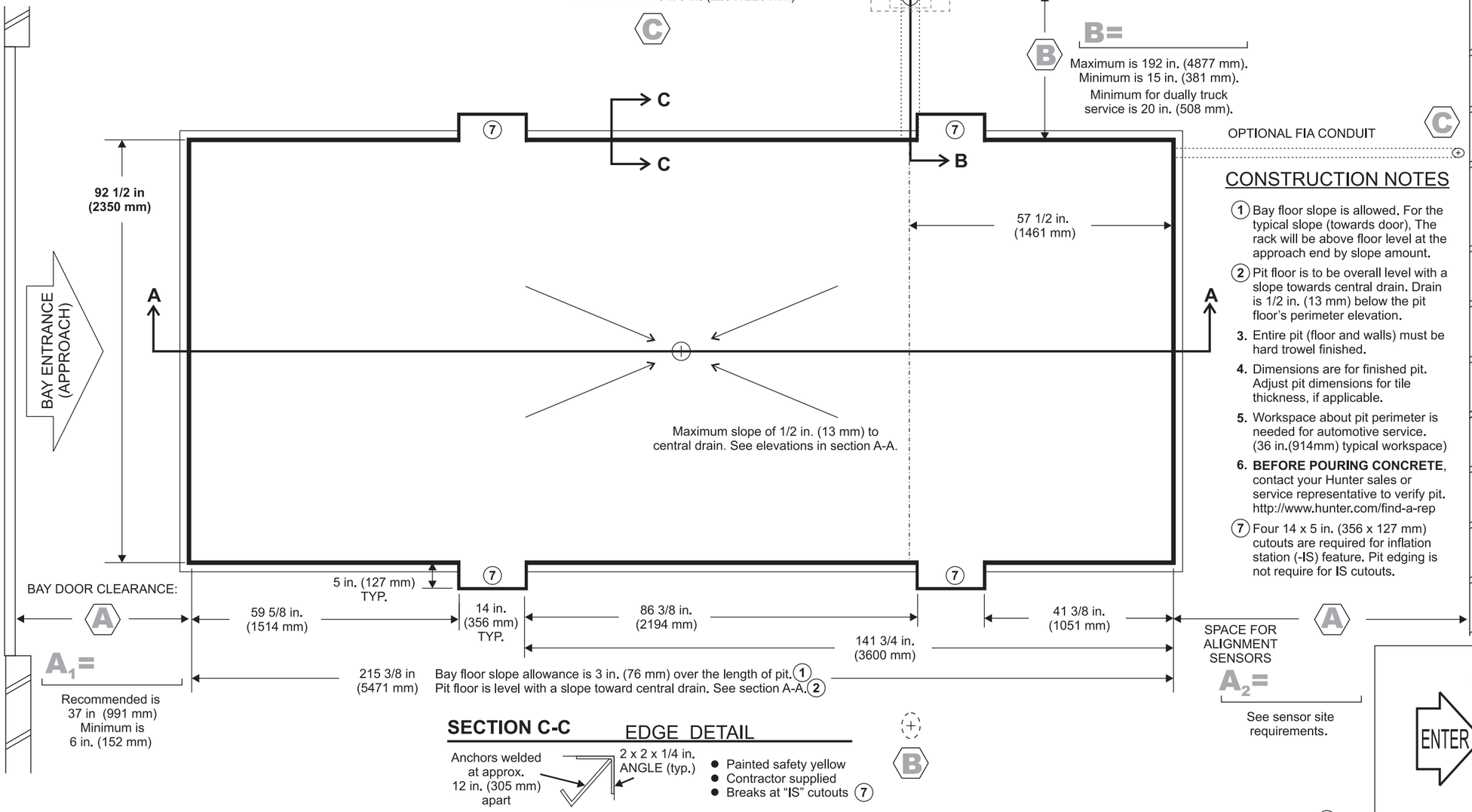
- 4 in. (100 mm) diameter conduit
- Maximum bend 45° (no 90°'s)
- Maximum run 198 in. (5029 mm)
- Exit into pit at floor level and at threshold centerline

CONSOLE OPENINGS



PRIOR TO INSTALL

- 208-230 VAC, 1 phase, 60 HZ for 26 Amp draw is required near control console location.
- 125-150 psi (8.6-10.3 bar) shop air is required near control console location.



CONSTRUCTION NOTES

1. Bay floor slope is allowed. For the typical slope (towards door), The rack will be above floor level at the approach end by slope amount.
2. Pit floor is to be overall level with a slope towards central drain. Drain is 1/2 in. (13 mm) below the pit floor's perimeter elevation.
3. Entire pit (floor and walls) must be hard trowel finished.
4. Dimensions are for finished pit. Adjust pit dimensions for tile thickness, if applicable.
5. Workspace about pit perimeter is needed for automotive service. (36 in.(914mm) typical workspace)
6. **BEFORE POURING CONCRETE**, contact your Hunter sales or service representative to verify pit. http://www.hunter.com/find-a-rep
7. Four 14 x 5 in. (356 x 127 mm) cutouts are required for inflation station (-IS) feature. Pit edging is not require for IS cutouts.

INDIVIDUAL SHOP LAYOUT

Owner needs to decide the best location for the lift rack, console and in-ground conduit to accommodate their facility plan.

A PIT PLACEMENT WITHIN BAY: Space in front of the lift rack for alignment equipment should be considered. Sensor space requirements are flexible to accommodate a variety of bays. Refer to the sensor's site requirements.

Example:
64 1/4 in. (1632 mm) in front of the pit (A_2) is needed for a floor-mount, Hawkeye sensor.

Accommodations behind the lift rack (A_1) for the overhang of large vehicle should also be considered.

B CONSOLE LOCATION / CONDUIT: 4-inch (100 mm) conduit is required from rack to console. Location of console is to be determined by owner.

This drawing shows front console location.

Console can be located on opposite side of pit; same distance limitations and requirements apply.

Various console locations are specified on separate drawings.

C ADDITIONAL IN-GROUND CONDUIT: Optional below-ground conduits may be needed to complete desired installation.

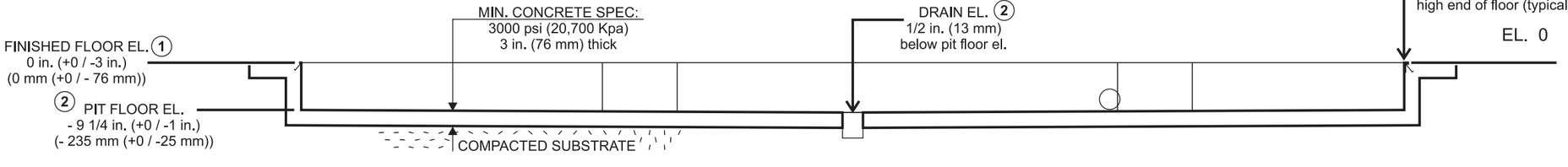
Power and shop air are required at console. Openings within console base are shown to accommodate plans to have conduit come-up within console.

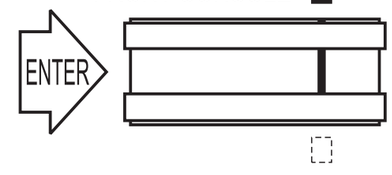
Optional conduit for FIA communication between console and alignment console is another consideration.

Abide by all local codes for in-ground conduits. General conduit recommendation is large diameter with bends no greater than 45°.

SECTION C-C EDGE DETAIL

SECTION A-A PIT CONSTRUCTION DETAIL

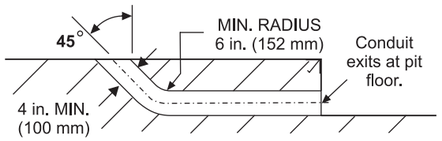




RX10FT-IS

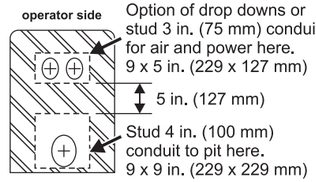
WITH CONSOLE AT FRONT OF PIT

SECTION B-B CONSOLE CONDUIT DETAIL



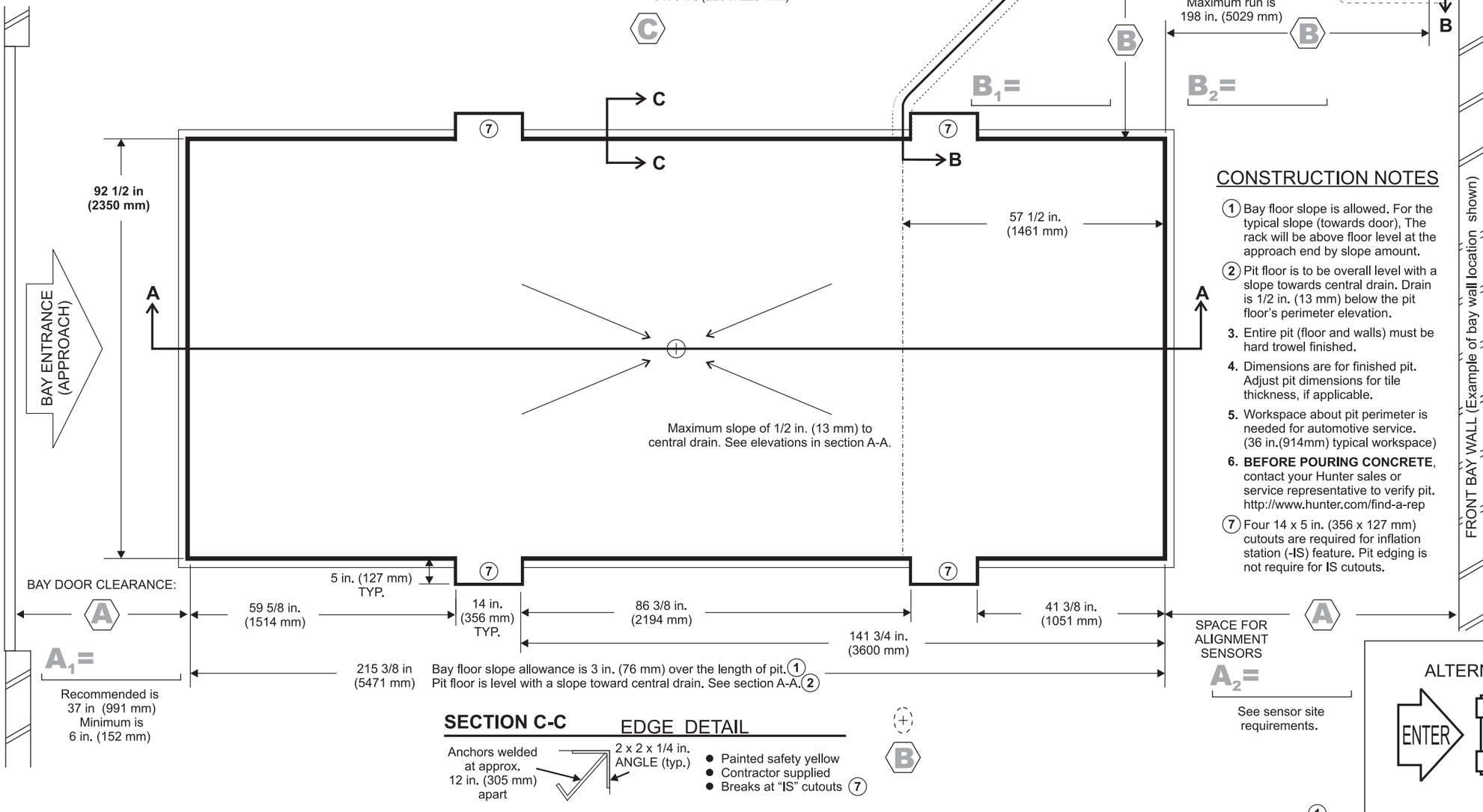
- 4 in. (100 mm) diameter conduit
- Maximum bend 45° (no 90°'s)
- Maximum run 198 in. (5029 mm)
- Exit into pit at floor level and at threshold centerline

CONSOLE OPENINGS



PRIOR TO INSTALL

- 208-230 VAC, 1 phase, 60 HZ for 26 Amp draw is required near control console location.
- 125-150 psi (8.6-10.3 bar) shop air is required near control console location.



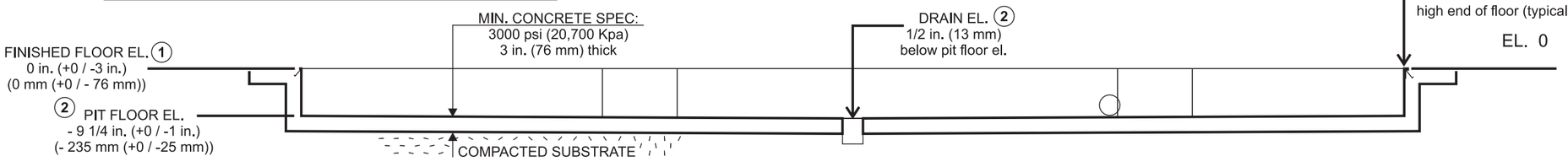
SECTION C-C EDGE DETAIL

- Painted safety yellow
- Contractor supplied
- Breaks at "IS" cutouts (7)

CONSTRUCTION NOTES

1. Bay floor slope is allowed. For the typical slope (towards door), The rack will be above floor level at the approach end by slope amount.
2. Pit floor is to be overall level with a slope towards central drain. Drain is 1/2 in. (13 mm) below the pit floor's perimeter elevation.
3. Entire pit (floor and walls) must be hard trowel finished.
4. Dimensions are for finished pit. Adjust pit dimensions for tile thickness, if applicable.
5. Workspace about pit perimeter is needed for automotive service. (36 in.(914mm) typical workspace)
6. **BEFORE POURING CONCRETE**, contact your Hunter sales or service representative to verify pit. http://www.hunter.com/find-a-rep
7. Four 14 x 5 in. (356 x 127 mm) cutouts are required for inflation station (-IS) feature. Pit edging is not require for IS cutouts.

SECTION A-A PIT CONSTRUCTION DETAIL



INDIVIDUAL SHOP LAYOUT

Owner needs to decide the best location for the lift rack, console and in-ground conduit to accommodate their facility plan.

A PIT PLACEMENT WITHIN BAY: Space in front of the lift rack for alignment equipment should be considered. Sensor space requirements are flexible to accommodate a variety of bays. Refer to the sensor's site requirements.

Example:
64 1/4 in. (1632 mm) in front of the pit (A_2) is needed for a floor-mount, Hawkeye sensor.

Accommodations behind the lift rack (A_1) for the overhang of large vehicle should also be considered.

B CONSOLE LOCATION / CONDUIT: 4-inch (100 mm) conduit is required from rack to console. Location of console is to be determined by owner.

This drawing shows near-aligner location.

Console can be located on opposite side of pit; same distance limitations and requirements apply.

Various console locations are specified on separate drawings.

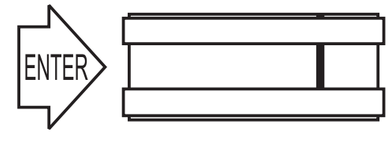
C ADDITIONAL IN-GROUND CONDUIT: Optional below-ground conduits may be needed to complete desired installation.

Power and shop air are required at console. Openings within console base are shown to accommodate plans to have conduit come-up within console.

Optional conduit for FIA communication between console and alignment console is another consideration.

Abide by all local codes for in-ground conduits. General conduit recommendation is large diameter with bends no greater than 45°.

ALTERNATIVE FRONT CONSOLE

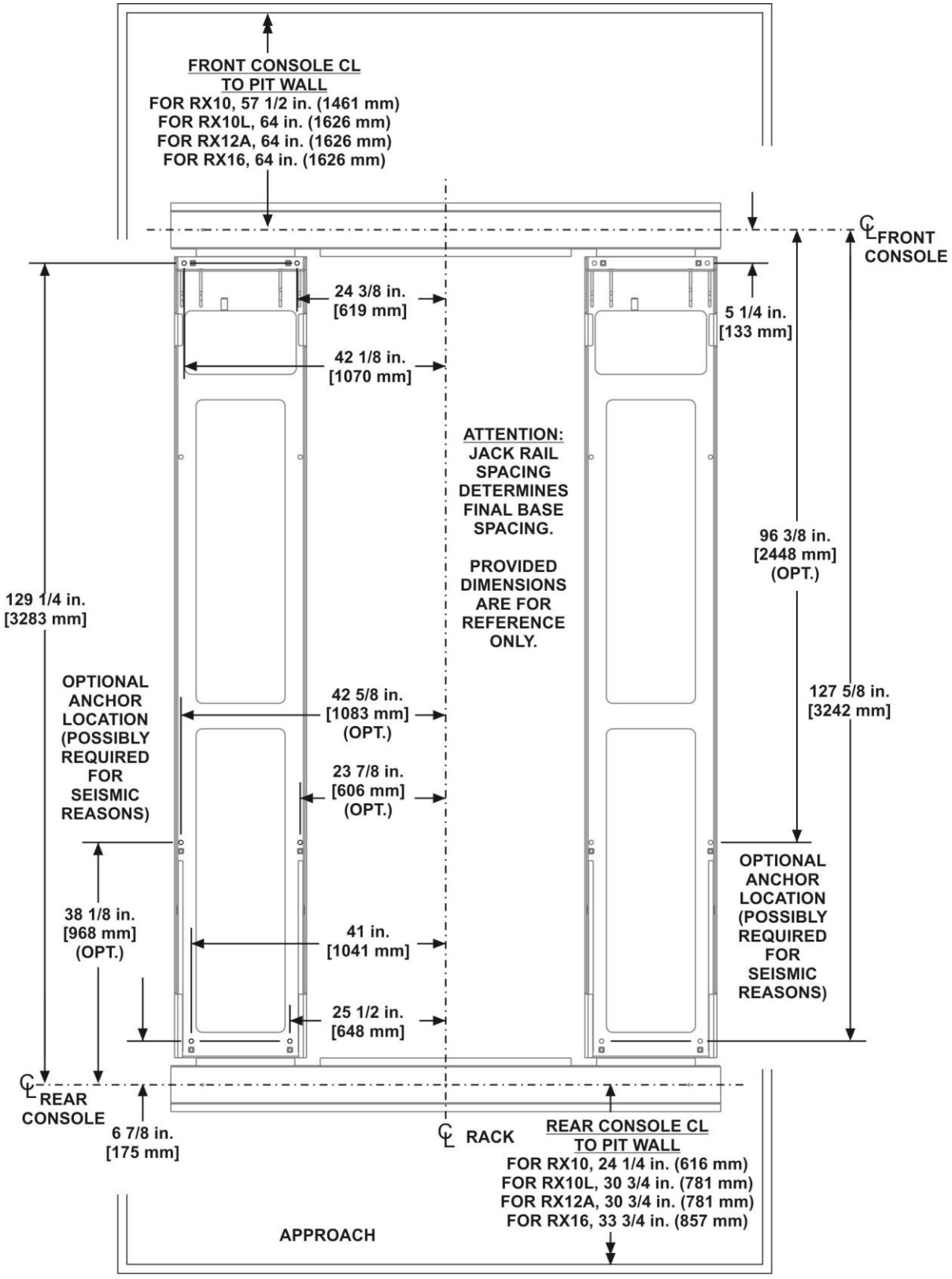


RX10FT-IS

WITH CONSOLE NEAR ALIGNER

REFERENCE A - Runway Base Plate Anchor Locations

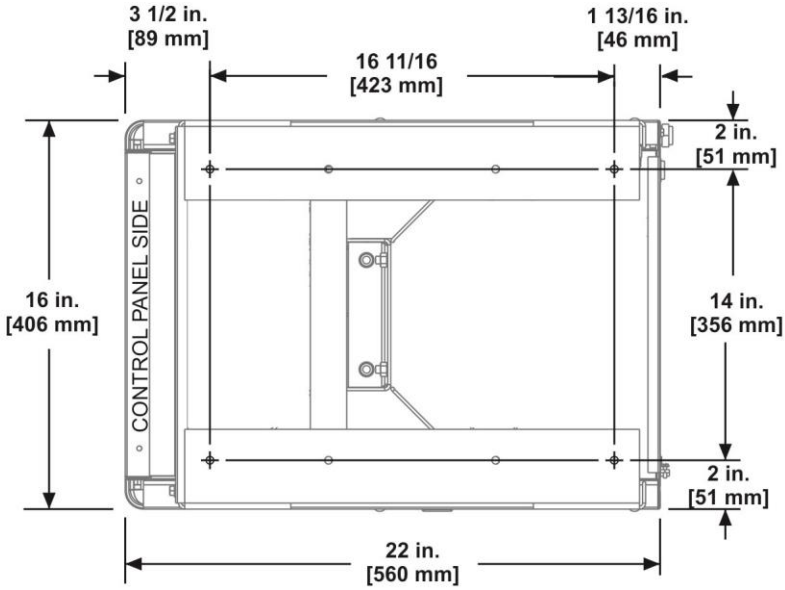
- Using lift / pit centerline and indicated threshold location to determine the approximate location of each anchor to secure runway base plates
- In-floor heating lines need to avoid anchor locations.
- In some instances reinforcing bars within concrete have interfered with anchors.
- Typical installation has an anchor at each corner of base plates. Optional (OPT) anchor locations are only use in unique circumstances, such as meeting seismic requirements.



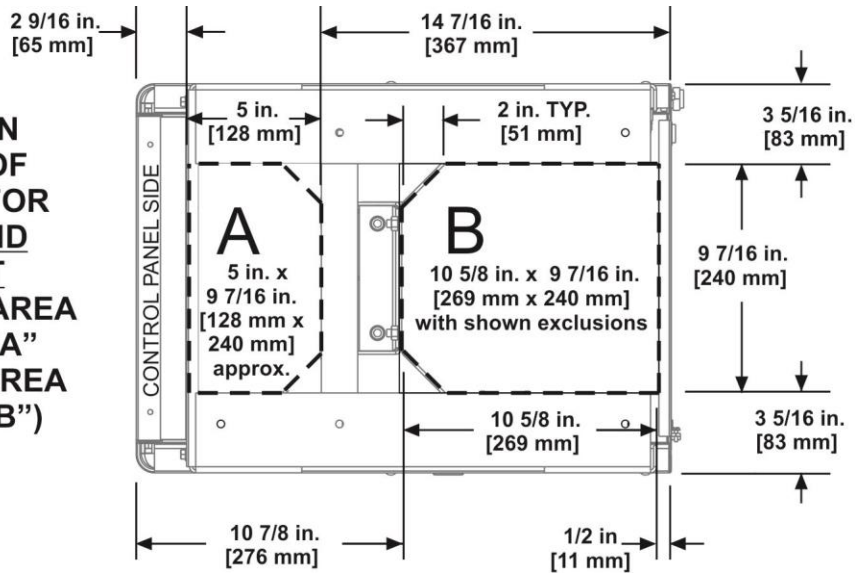
REFERENCE B - Rack Console Details

- Use these additional consoles to possible fine tune a rack installation plan.

CONSOLE DIMENSIONS AND ANCHOR LOCATIONS



ACCESS IN BOTTOM OF CONSOLE FOR <u>IN–GROUND CONDUIT</u> (CONTROLS AREA OPENING “A” AND PUMP AREA OPENING “B”)



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ATTACHMENT 2

Pertinent Subsurface Investigation Logs and Figures

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

TEST PIT LOG

PROJECT
Remedial Investigation: Test Pit Soil Sampling
3875 West Henrietta Road
Henrietta, New York

BORING: RITP-4
SHEET 1 OF 1
JOB: 206139.02
CHKD BY:

CONTRACTOR: TREC Environmental TEST PIT LOCATION: TIME: 1124 TO ###
EXCAVATOR: Kubota KX121-3 Super S GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 27-Apr-07 END DATE: 27-Apr-07

TYPE OF DRILL RIG: DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE NO. AND DEPTH	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0		0.0-ft.	**FILL MATERIAL**		
		0.3 to 0.4-ft.	Asphalt Pavement Brown cmf SAND, some(+) cmf subrounded Gravel, Also includes boulders, damp to wet, no odors.	0.0	
		1.0-ft.	Gray to dark gray cmf(+) SAND. some cmf angular to subrounded Gravel, trace(+) Clayey Silt, damp, no odors.	0.1	
2				0.0	
		2.1-ft.	Gray cmf subround to subangular GRAVEL and cmf SAND, trace Clayey Silt, damp to saturated @ ~3.4 -ft., no odors.	0.1	
		3.5-ft.	**GLACIAL TILL** Brown Clayey SILT to Silty CLAY, little(-) cmf subangular to subrounded Gravel, trace cmf Sand, saturated, no odors.	0.0	
4				0.0	
			Total Depth of Test Pit = 5.1-feet Below Ground Surface		
6					
8					
10					
12					

WATER LEVEL DATA			BOTTOM OF CASING	BOTTOM OF BORING	GROUNDWATER ENCOUNTERED
DATE	TIME	ELAPSED TIME			
				5.1-Ft.	Approx. 3.4-ft. BGS

NOTES: No metal or other man-made debris observed within soils excavated f the test pit.

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations

and = 35 to 50 %
some = 20 to 35%
little = 10 to 20%
trace = 1 to 10%

c = coarse
m = medium
f = fine
vf = very fine

BGS = Below the Ground Surface
NA = Not Applicable

BORING: RITP-4

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Remedial Investigation
3865 & 3875 West Henrietta Road
Henrietta, New York

BORING: RITB-9
SHEET 1 OF 1
JOB: 206139.02
CHKD BY:

CONTRACTOR: Trec Environmental Servi BORING LOCATION: TIME: 1137 TO
DRILLER: Paul Wiley GROUND SURFACE ELEVATION: NA DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles START DATE: 08-May-07 END DATE: 08-May-07

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push OTHER:

DEPTH	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	1.3-ft.	0.0-ft.	**FILL MATERIAL**		
			0.5-ft.	Concrete Slab - Not sampled. Gray cm(+)f SAND, some(-) cmf subangular to angular Gravel, slightly moist, slight weathered petroleum odor.	6.1	
					8.4	
2						
4	S-2 4' - 8'	2.6-ft.	4.0-ft.	**LACUSTRINE** Grayish-brown Clayey SILT, trace mf(+) Sand, saturated, no odors.	1.3	
			4.6-ft.	Brown SILT, trace(+) vf Sand, with black staining (due to organic matter) at bedding partings, saturated, no odors.	0.5	
			5.6-ft.	Brown CLAY & SILT, saturated, no odors.		
6					0.1	
8	S-3 8' - 11'	2.8-ft.	8.0-ft.	As above, saturated, no odors.	0.6	
					0.2	
10					0.0	
				Bottom of Boring @ 11.0-feet BGS		
12						
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				11.0-Ft.	Less than 4.0-ft. BGS

NOTES:

GENERAL NOTES

1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations

and = 35 to 50 %	c = coarse	
some = 20 to 35%	m = medium	BGS = Below the Ground Surface
little = 10 to 20%	f = fine	NA = Not Applicable
trace = 1 to 10%	vf = very fine	

BORING: RITB-9

LABELLA Associates, P.C.

300 STATE STREET, ROCHESTER, NY
ENVIRONMENTAL ENGINEERING CONSULTANTS

PROJECT

Remedial Investigation
3865 & 3875 West Henrietta Road
Henrietta, New York

BORING: RITB-4
SHEET 1 OF 1
JOB: 206139.02
CHKD BY:

CONTRACTOR: Trec Environmental Servi | BORING LOCATION: | TIME: 1427 TO
DRILLER: Paul Wiley | GROUND SURFACE ELEVATION: NA | DATUM: NA
LABELLA REPRESENTATIVE: C. A. Stiles | START DATE: 07-May-07 | END DATE: 07-May-07

TYPE OF DRILL RIG: ~~Truck~~/Track Mounted Geoprobe Model 54LT | DRIVE SAMPLER TYPE: 4-foot Macrocore
AUGER SIZE AND TYPE: NA | INSIDE DIAMETER: ~1.8-Inch
OVERBURDEN SAMPLING METHOD: Direct Push | OTHER:

DEPTH	SAMPLE NO. AND DEPTH	SAMPLE RECOVERY	STRATA CHANGE	VISUAL CLASSIFICATION	PID FIELD SCREEN (PPM)	REMARKS
0	S-1 0' to 4'	1.2-ft.	0.0-ft.	**FILL MATERIAL** Concrete Slab - Not sampled.		
			0.5-ft.	Gray cm$^{(+)}$f SAND, some(-) cmf angular to subrounded Gravel, trace Silt, moist to damp, slight weathered petroleum odor.	17.4	
2						
4	S-2 4' - 8'	2.8-ft.	4.0-ft.	**LACUSTRINE** Grayish-brown to brown CLAY & SILT, trace f Sand, trace(-) f subrounded Gravel, saturated, no odors.	6.0	
					6.4	
6					5.6	
8	S-3 8' - 11'	2.4-ft.	8.0-ft.	As above, saturated, no odors.	0.2	
					0.2	
10						
				Bottom of Boring @ 11.0-feet BGS		
12						
14						
16						
18						

WATER LEVEL DATA			BOTTOM OF	BOTTOM OF	GROUNDWATER
DATE	TIME	ELAPSED TIME	CASING	BORING	ENCOUNTERED
				11.0-Ft.	Less than 4.0-ft. BGS

NOTES: _____

GENERAL NOTES

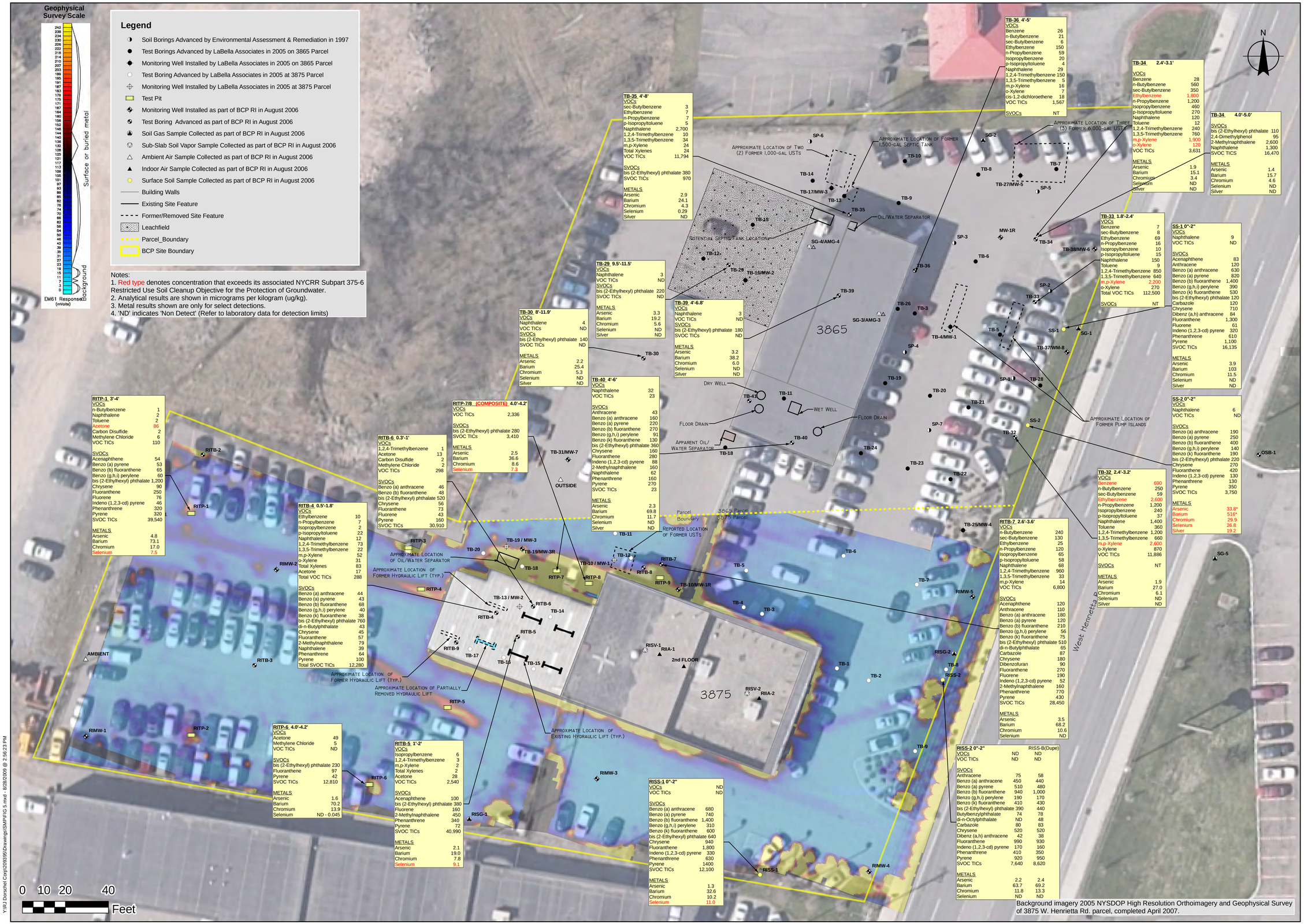
1) STRATIFICATION LINES REPRESENT APPROXIMATE BOUNDARY BETWEEN SOIL TYPES, TRANSITIONS MAY BE GRADUAL.

2) WATER LEVEL READINGS HAVE BEEN MADE AT TIMES AND UNDER CONDITIONS STATED, FLUCTUATIONS OF GROUNDWATER

3) Abbreviations

and = 35 to 50 %	c = coarse	
some = 20 to 35%	m = medium	BGS = Below the Ground Surface
little = 10 to 20%	f = fine	NA = Not Applicable
trace = 1 to 10%	vf = very fine	

BORING: RITB-4



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PROJECT/CLIENT

SITE MANAGEMENT PLAN
BCP SITE #C8281324
3865 & 3875 WEST HENRIETTA RD
ROCHESTER, NY 14623

DRAWING TITLE

REMEDIAL INVESTIGATION
SOIL SAMPLING RESULTS

DESIGNED BY: RCN
DRAWN BY: RCN
REVIEWED BY: DPN

ISSUED FOR
DRAFT

DATE: AUGUST 2008

PROJECT/DRAWING NUMBER

209395

FIGURE 5

Y:\RJ Dorschel Corp\2009\B\Drawings\SMP\FIG 5.mxd - 8/28/2009 @ 2:56:23 PM

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

ATTACHMENT 3

Excavation Work Plan (Appendix B to Site Management Plan)

APPENDIX B – EXCAVATION WORK PLAN

B-1 NOTIFICATION

At least 15 days prior to the start of any activity that is anticipated to encounter remaining contamination (refer to Figure 8), the Site owner or their representative will notify the Department. Currently, this notification will be made to:

Matthew Gillete, P.E.

Division of Environmental Remediation

New York State Department of Environmental Conservation

6274 East Avon-Lima Road

Avon, New York 14414

This notification will include:

- A detailed description of the work to be performed, including the location and areal extent, plans for Site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated and any work that may impact an engineering control;
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern, potential presence of grossly contaminated media, and plans for any pre-construction sampling;
- A schedule for the work, detailing the start and completion of all intrusive work;
- A summary of the applicable components of this EWP;

  NOTE: Simple excavations may only require compliance with a portion of the EWP (e.g., excavation of a small volume of soil from above the water table that is directly loaded for off-site disposal would not require the stockpiling or fluids management provisions of the EWP).

- A statement that the work will be performed in compliance with this EWP and 29 CFR 1910.120;
- A copy of the Contractor's Health and Safety Plan;
- Identification of disposal facilities for potential waste streams; and
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

B-2 SOIL-SCREENING METHODS

Visual, olfactory and instrument-based (i.e., PID) soil screening will be performed by a qualified environmental professional during all remedial and development excavations into known or potentially contaminated material (remaining contamination). Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

Soils will be segregated based upon previous environmental data and in-field soil screening results into material that requires off-site disposal, material that requires testing, material that can be returned to the subsurface, and material that can be used as "cover" soil.

Petroleum-impacted soils at the Site exhibit a moderate gasoline-like odor and are typically stained a dark gray color. The petroleum-impacted soils at the Site will also register elevated readings on a properly calibrated PID meter.

Two (2) classes of soil have been defined for the Site. These Classes of material will be managed and handled in a manner dictated soil-screening observations. These two (2) classes of material are described in the following table.

EWP Soil Classifications

Class of Material	Physical Description	Screening Parameter	Management/ Re-use of Material
Class 1 Material	Soil without obvious impacts	No discernable odor; No staining; No elevated PID readings (i.e., < 10 ppm).	Unrestricted use anywhere on the Site; Off-site disposal, if required, only after waste characterization testing; Use on Site to cover Class 2 Materials.
Class 2 Material	Soil with petroleum impacts.	Petroleum odor; Staining; PID readings > 10 ppm.	Sample in accordance with NYSDEC Spill Technology and Remediation Series (STARS) Memo #1. The following actions would be undertaken depending on the sampling results: 1) unrestricted use (on-site) if results meet Part 375-6.8 Restricted Commercial Use Soil Cleanup Objectives criteria (i.e., reclassify as Class 1 Material); 2) use on Site as non-structural backfill and buried under at least 1 foot of Class 1 Materials if results fail Part 375 Restricted Commercial Use Soil Cleanup Objectives; or, 3) Off-Site disposal per 6 NYCRR Part 360 requirements.

B-3 STOCKPILE METHODS

Construction and maintenance of staging/stockpiling areas are described as follows:

- **Class 1 Material** - will be staged for later use as cover material on-site. In the event these materials cannot be reused on-site, these materials will be staged on a minimum two (2) layers of 6-mil polyethylene sheeting and covered with one (1) layer of polyethylene sheeting until sampled and a determination of unrestricted use, restricted on-site reuse, or off-site disposal is made.

- **Class 2 Material** - will be staged on a minimum two (2) layers of 6-mil polyethylene sheeting and covered with one (1) layer of polyethylene sheeting until sampled and a determination of unrestricted use, restricted on-site reuse, or off-site disposal is made. Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters, and other discharge points.

All soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters and other discharge points.

Stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC.

B-4 EXCAVATION AND LOAD OUT OF MATERIAL

The owner of the Site and its contractors are solely responsible for safe execution of all invasive and other work performed under this SMP.

The presence of utilities and easements on the Site will be investigated by the contractor. It will be determined whether a risk or impediment to the planned work under this SMP is posed by utilities or easements on the Site.

Loaded vehicles leaving the Site with impacted media will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and NYSDOT requirements (and all other applicable transportation requirements).

A truck wash will be operated on-site for any loading of remaining contamination. The contractor will be responsible for ensuring that all outbound trucks will be washed at the truck wash before leaving the Site until the activities performed under this section are complete.

Locations where vehicles enter or exit the Site shall be inspected daily for evidence of off-site soil tracking.

The contractor will be responsible for ensuring that all egress points for truck and equipment transport from the Site are clean of dirt and other materials derived from the Site during intrusive excavation activities. Cleaning of the adjacent streets will be performed, as needed, to maintain a clean condition with respect to Site-derived materials.

Any soils proposed for re-use off-site should be tested for TCL VOCs by USEPA Method 8260 and for STARS-list SVOCs by USEPA Method 8270. These analytical results must meet Part 375 Unrestricted Use Soil Cleanup Objectives.

A qualified environmental professional or person under their supervision will oversee all invasive work in the area of remaining contamination and the excavation and load-out of all excavated material from the area of remaining contamination (refer to Figure 8).

B-5 TRANSPORT OF MATERIAL OFF-SITE

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 NYCRR Part 364. Haulers will be appropriately licensed, and trucks shall be properly placarded.

Material transported by trucks exiting the Site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks transporting impacted media will be washed prior to leaving the Site. Truck wash waters will be collected and disposed of off-site in an appropriate manner.

Truck transport routes will take into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport.

Trucks will be prohibited from stopping and idling in the neighborhood outside the Site.

Egress points for truck and equipment transport from the Site will be kept clean of dirt and other materials during on-site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance.

Off-site queuing will be prohibited.

B-6 OFF-SITE DISPOSAL OF MATERIAL

All soil/fill/solid waste excavated and removed from the site will be treated as contaminated and regulated material and will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360), and Federal regulations.

If disposal of soil/fill from the Site is proposed for unregulated off-site disposal (i.e., clean soil removed for development purposes), a formal request with an associated plan will be made to the NYSDEC. Unregulated off-site management of materials from this Site will not occur without formal NYSDEC approval.

Off-site disposal locations for excavated soils will be identified in the pre-excavation notification. This will include estimated quantities and an appropriate solid waste landfill disposal facility. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading, and disposal facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 unrestricted SCOs is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

B-7 REUSE OF MATERIALS ON-SITE

'Reuse on-site' means reuse on-site of material that originates at the Site and which does not leave the Site during the excavation. Excavated material determined to be Class 1 Material may be re-used on-site with no restrictions.

Excavated material staged as apparent Class 2 Material will be sampled for NYSDEC STARS-list VOCs and STARS-list SVOCs in order to determine appropriate reuse. The following criteria/reuse will be implemented:

- if contaminant concentrations are less than Part 375-6 Restricted Commercial Use Soil Cleanup Objectives then the material can be reused on-site anywhere or NYSDEC could be petitioned for off-site reuse (subject to NYSDEC approval);

- if contaminant concentrations are above the Part 375-6 Restricted Commercial Use Soil Cleanup Objectives then the material can be reused on-site if covered by one foot of Class 1 material or imported clean fill (refer to B-10: Backfill From Off-Site Sources for requirements of backfill);

All waste streams will be staged separately.

A qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for re-use on-site will be placed below the demarcation layer (if present) or impervious surface, and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the Site will not be reused on-site.

B-8 FLUIDS MANAGEMENT

All liquids to be removed from the Site, including excavation dewatering and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the Site, but will be properly handled and disposed off-site.

If impacted groundwater is discovered in an on-site excavation, contractors will follow their company's Health and Safety Plan(s).

Since elevated levels of contaminants may be encountered in water entering on-site excavations, the following apply:

1. If impacted excavation waters are encountered, an appropriately sized container will be mobilized to the Site and staged at a location close to the excavation. Ideally, this tank should be located in a level area that is protected from vehicle traffic, yet remains accessible to trucks and the sewer system. The contractor will need to supply the appropriate number and size of pumps to effectively de-water the excavation. The pumps will need to be able to generate enough head to pump the water to the temporary containment tank(s), or a water truck could be utilized to transport the water from the excavation to the tank(s). The contractor will be responsible for reducing the turbidity of the water during pumping (i.e., removing/filtering suspended solids/sediments).

2. When the container becomes full, a sample of water from the tank will be collected and submitted to a NYSDOH ELAP-certified laboratory. The water sample will be sampled in accordance with MCPW guidelines for TCL VOCs by USEPA Method 8260. [*Note: Based upon field observations and/or Monroe County Pure Waters (MCPW) requirements, additional testing may be required.*]

3. The laboratory analytical results will be compared to the applicable MCPW discharge criteria. In the event that contaminant concentrations exceed the MCPW discharge criteria, the water will be treated using an appropriate system (e.g., additional filtering, carbon treatment, air stripping, etc.) to remove contaminants and discharged to a second tank, or circulated through the same tank. A second sample of the treated water will then be collected and analyzed, in order to confirm that contaminants were removed to concentrations below the MCPW discharge criteria. This process will be repeated if necessary. Subsequent to receiving results in compliance with MCPW discharge criteria, the test results will be submitted with a sewer use permit application to MCPW, in order to obtain a sewer use permit for discharge of the treated water.

   [*Note: In the event that treatment of the excavation waters is unable to meet the discharge criteria, the waters will be disposed off-site at an approved facility.*]

B-9 COVER SYSTEM RESTORATION

Any soil removals and any other invasive activities will be backfilled with at least 1-ft. of clean materials over any areas or Remaining Contamination (the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP) or covered with an impervious surface (e.g., asphalt pavement, concrete, etc.). If the type of cover system changes from that which existed prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the 'Remaining Contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the SMP.

B-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by a qualified environmental professional and will be in compliance with provisions in the SMP, applicable regulations [6NYCRR 375-6.7(d)] and guidance (DER-10) prior to receipt at the Site.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the Site. All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d).

Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site. Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

In the event that imported backfill material is needed at the Site, the following procedures will be followed for the use of backfill from other sources at the Site:

- All imported backfill will be from NYSDEC-permitted source, and written documentation regarding the nature of the material will be obtained from the source, OR
- Representative samples of the imported backfill will be collected at the frequency specified in the NYSDEC Spill Technology and Remediation Series (STARS) Memo #1 guidance document. The representative samples of imported backfill will be submitted

for laboratory analysis of the following: VOCs, SVOCs, USEPA RCRA metals; PCBs; and pesticides. Laboratory analytical results associated with the samples of imported backfill will be compared to NYSDEC Part 375 Soil Cleanup Objectives (SCOs) for the Protection of Groundwater Sample. Samples that meet these SCOs will be deemed suitable for use as backfill at the Site.

B-11 STORMWATER POLLUTION PREVENTION

With regard to larger excavations that may be proposed at the Site, procedures for stormwater pollution prevention shall be specified in a project-specific Stormwater Pollution Prevention Plan that conforms to the requirements of NYSDEC Division of Water guidelines and NYS regulations. If not covered in the project-specific Stormwater Pollution Prevention Plan, the following will also apply:

- Barriers and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the Site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.
- Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.
- All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.
- Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

- Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters.
- Silt fencing or hay bales will be installed around the entire perimeter of the excavation/construction area.

B-12 CONTINGENCY PLAN

If USTs or other previously unidentified contaminant sources (e.g., stained soil, drums, etc.) are found during post-remedial subsurface excavations or development related construction, then excavation activities will be suspended until sufficient equipment and personnel are mobilized to the Site to address the condition.

Sampling will be performed on product, sediment and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for petroleum-related compounds (i.e., STARS-list VOCs and SVOCs), unless field observations suggest the need for more comprehensive analyses or at the discretion of the NYSDEC.

Identification of unknown or unexpected contaminated media identified by screening during invasive Site work will be promptly communicated by phone to NYSDEC's Project Manager. Reportable quantities of petroleum product will also be reported to the NYSDEC Spills Hotline. These findings will also be included in the periodic reports prepared pursuant to Section 5 of the SMP.

B-13 COMMUNITY AIR MONITORING PLAN

A copy of the Community Air Monitoring Plan (CAMP) component of the EWP, obtained from Appendix 1A of NYSDEC Draft DER-10 Technical Guidance for Site Investigation and Remediation, dated December 2002, is included as Appendix C of this SMP. The provisions of this CAMP will be followed during all future ground-intrusive activities performed at the Site.

B-14 ODOR CONTROL PLAN

This Odor Control Plan component of the EWP is intended to control emissions of nuisance odors off-site and into on-site tenant spaces. If nuisance odors are identified at the Site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the property owner's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

All necessary means will be employed to prevent on- and off-site nuisances. At a minimum, these measures will include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams or other additives to cover or "seal" exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances will include: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

B-15 DUST CONTROL PLAN

A dust suppression plan that addresses dust management during invasive on-site work will include, at a minimum, the items listed below:

- Dust suppression will be achieved though the use of a dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Gravel will be used on roadways to provide a clean and dust-free road surface.

- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

B-16 OTHER NUISANCES

A plan for rodent control, if required by the City of Rochester, will be developed and utilized by the Contractor prior to and during all on-site demolition or remedial work.

If required by the City of Rochester, a plan will be developed and utilized by the Contractor for all demolition or remedial work to ensure compliance with all applicable City of Rochester noise control ordinances.