VIA ELECTRONIC MAIL

November 6, 2020

Mr. Christopher Mannes III, P.E.
Environmental Engineer II
New York State Department of Environmental Conservation
615 Erie Boulevard West
Syracuse, NY 13204-2400

Subject: **Third Quarter 2020 Progress Report**
Former Rollway Bearing Corporation Facility, Liverpool, New York
Agreement Index Number: V7-1007-96-10

Dear Mr. Mannes:

On behalf of Emerson Electric Co., WSP USA Inc. is submitting this Third Quarter 2020 Progress Report for the former Rollway Bearing Corporation facility in Liverpool, New York. This quarterly progress report summarizes all work completed at the former Rollway Bearing facility from July through September 2020 and work planned for October through December 2020. The report was prepared in accordance with the requirements of the Site Management Plan, dated March 6, 2018, and includes the following information:

- a summary of all work completed and the results of sampling and testing performed during the reporting period
- a summary of reports and deliverables that were completed and submitted during the reporting period
- an estimate of the percentage of completion of the approved work plan activities, problems encountered during the quarter and actions taken to alleviate those problems, and modifications to work plans approved by the New York State Department of Environmental Conservation (NYSDEC)
- a description of activities anticipated to be completed during the next quarter

WORK COMPLETED

The following activities were completed during July through September 2020:

- WSP conducted operation, maintenance, and monitoring (OM&M) visits on July 30 and September 24, 2020, to ensure proper operation of the light non-aqueous phase liquid (LNAPL) recovery system. The OM&M logs are included in Enclosure A. The LNAPL recovery system was operational during the quarter. As part of the routine maintenance on the LNAPL recovery system, the dilution and inline air filters were replaced during the quarter.
- During the July site visit, LNAPL thickness measurements were collected from 15 observation or recovery wells (Figure 1). After the LNAPL measurements were collected, new absorbents were installed in all the wells except for wells RW-2, OW-4, OW-8, SB-7, and SB-10 because no product was observed in these wells during the site visit, or during the last 4 years of monitoring.
- During the September site visit, absorbent socks were removed from wells RW-1, OW-1, OW-2, OW-3, OW-5, SB-8, OW-10/FB-1, and OW-11/FB-4, weighed, and placed in a U.S. Department of Transportation (DOT)-compliant 55-gallon steel drum for subsequent characterization and offsite disposal (Enclosure B). New absorbent socks were installed in these wells. The weights of the new and spent absorbent socks were used to determine the mass of LNAPL removed, which was then converted to

WSP USA
7000 East Genesee Street
Building D, 2nd Floor
Fayetteville, NY 13066

Tel.: +1 315 655-3900
wsp.com

volume using an assumed density for the LNAPL. The existing absorbents in wells SB-5 and OW-9/FB-2 were not removed and replaced because no staining was observed on these absorbents. During the September site visit, LNAPL thickness measurements were collected from wells RW-2, OW-4, OW-8, SB-7, and SB-10, which are wells that had no measurable product during the July site visit. Measurable product was observed in wells RW-2 and OW-4 and, therefore, absorbents were installed in these wells (Figure 1). No absorbents were installed in wells OW-8, SB-7, and SB-10 because no product was observed in these wells during the site visit.

- WSP installed a sub-slab depressurization system (SSDS) in the eastern portion of the former Rollway Bearing facility from August 10 to September 18, 2020, in accordance with the approved work plan. System start-up was completed on September 17, and the system is operational. A copy of the record drawings for the SSDS are provided in Enclosure C. WSP anticipates submitting a construction completion report for the SSDS during the fourth quarter of 2020.

RESULTS OF SAMPLING AND TESTING

- During the July site visit, measurable LNAPL was present in the following wells above the remedial action objective: RW-1, OW-1, OW-2, OW-3, OW-5, SB-5, SB-8, OW-10/FB-1, and OW-11/FB-4 (Figure 1). No product was observed in wells RW-2, OW-4, OW-8, SB-7, SB-10, and well OW-9/FB-2 was dry.
- The five wells that did not exhibit measurable LNAPL in July and well OW-9/FB-2 (which was dry) were inspected for LNAPL again in September. Two of the wells (RW-2 and OW-4) contained measurable product during the September site visit. Wells OW-8, SB-7, and SB-10 had no measurable product, and OW-9/FB-2 was dry (Figure 1).
- Approximately 1.1 gallons of LNAPL were removed from the wells with absorbents during the reporting period.

REPORTS AND DELIVERABLES

- WSP submitted the Second Quarter 2020 Progress Report to the NYSDEC on July 14, 2020, which summarized activities conducted from April through June 2020.
- On July 20, 2020, WSP submitted the Periodic Review Report for the site, which covered the reporting period from June 21, 2019, through June 21, 2020.

PERCENTAGE OF COMPLETION

WSP estimates that the project is 90 percent complete.

DIFFICULTIES/MODIFICATIONS TO WORK PLAN

- During the July 30, 2020, site visit, vacuum readings on the LNAPL recovery wells could not be taken because the portable vacuum gauge was inoperable.
- During the September 24, 2020, site visit, it was observed that the vacuum reading on OW-2 was low compared to typical operating readings; the cause for this decrease in vacuum in OW-2 will be evaluated during the fourth quarter of 2020 and corrected, as necessary.

WORK PLANNED

The following work has been completed, or is anticipated to be undertaken, from October through December 2020:

- WSP will submit the Third Quarter 2020 Progress Report to the NYSDEC, which summarizes activities conducted from July through October 2020.
- WSP will conduct an OM&M visit in November 2020 to ensure proper operation of the LNAPL recovery system. During the site visit, absorbent socks will be removed from wells RW-1, RW-2, OW-1, OW-2, OW-3, OW-4, OW-5, SB-5, SB-8, OW-9/FB-2, OW-10/FB-1, and OW-11/FB-4, weighed, and placed in a DOT-compliant 55-gallon steel drum for subsequent characterization and offsite disposal. New absorbents will be placed in all wells except wells OW-8, SB-7, and SB-10, which had no measurable product during the September 24, 2020, site visit.

Please contact us at (315) 655-3900 with any questions regarding this Third Quarter 2020 Progress Report, or other aspects of the project.

Sincerely yours,

Brian E. Silfer, P.G.
Practice Leader

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Enclosures

cc/encl.: Mr. Johnathan Robinson, New York State Department of Health
Mr. Stephen L. Clarke, Emerson
Ms. Sheila M. Harvey, Esquire, Pillsbury Winthrop Shaw Pittman

FIGURE

FORMER DRUM STORAGE

FORMER HEAT TREAT AREA

FORMER BAGHOUSE

FORMER SCRAP CHIPS PAD

FORMER COMPRESSOR ROOM

FORMER INSTRUMENT ROOM

FORMER UNDERGROUND QUENCH OIL RETURN LINE

QUENCH OIL UST (CLOSED IN PLACE 1998)

FORMER UNDERGROUND PIPE

FORMER CUTTING OIL AST (REMOVED 1998)

WASTE OIL AST (REMOVED 1997)

LNAPL RECOVERY SYSTEM ENCLOSURE

SEWER LINE

MH

DRIVEWAY

SB-9, SB-10, SB-5, SB-8, SB-7, RW-2, OW-10/FB-1, OW-9/FB-2, OW-8, OW-4, OW-7, OW-3, RW-1, OW-2, OW-1, OW-6, OW-11/FB-4, OW-5, MW-4, SB-17, SB-18, SB-20, SB-3

OW-10/FB-1										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
0.04	0.01	DRY	NM	0.01	0.14	0.03	0.02	0.13	0.15	--

SB-8										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
0.02	NM	NM	NM	NM	NM	NM	NM	--	0.03	--

OW-9/FB-2										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
--	0.17	0.03	NM	NM	0.05	0.08	0.15	0.02	DRY	DRY

OW-8										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
NM	0.01	NM	NM	0.01	NM	NM	0.02	--	NM	NM

OW-3										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
NM	0.06	0.01	NM	0.06	0.02	0.15	0.09	0.04	0.11	--

RW-1										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
NM	0.02	NM	NM	NM	NM	NM	0.06	--	0.07	--

OW-2										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
0.03	0.03	0.02	NM	NM	0.01	0.02	0.11	0.32	0.08	--

OW-11/FB-4										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
0.23	NM	NM	NM	NM	NM	NM	NM	--	0.05	--

OW-5										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
NM	0.02	0.13	0.01	NM	0.02	0.03	0.03	0.02	0.03	--

SB-10										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
NM	NM	NM	NM	NM	NM	NM	0.01	--	NM	NM

SB-5										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
0.47	0.53	0.26	0.25	0.10	0.87	0.38	0.19	0.37	0.82	--

SB-7										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
NM	NM	NM	NM	NM	NM	NM	NM	--	NM	NM

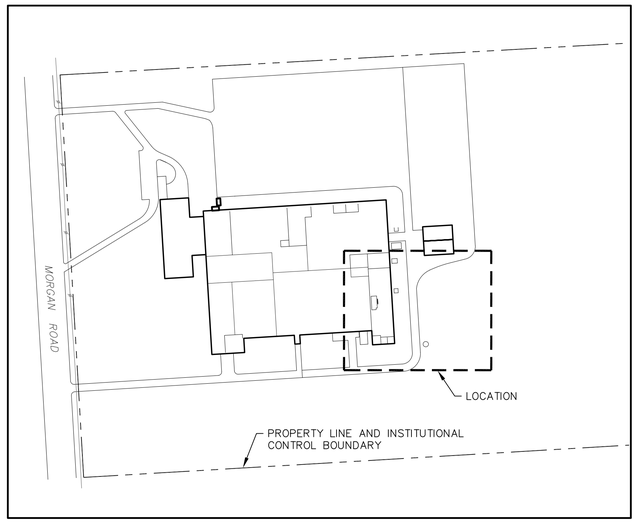
RW-2										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
NM	NM	NM	NM	NM	NM	NM	NM	--	NM	0.19

OW-4										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
NM	NM	NM	NM	NM	NM	NM	NM	--	NM	0.03

OW-1										
Oct-15	May-16	Dec-16	Jul-17	Feb-18	Sept-18	Apr-19	Dec-19	Jan-20	Jul-20	Sep-20
0.02	0.06	0.06	0.03	0.04	0.02	0.02	0.03	0.31	0.22	--

LEGEND

- MONITORING WELL LOCATION
- SMALL DIAMETER MONITORING WELL INSTALLED MAY – JUNE 1999
- RECOVERY WELL
- OBSERVATION WELL
- OBSERVATION WELL CONNECTED TO LNAPL RECOVERY SYSTEM
- RECOVERY WELL CONNECTED TO LNAPL RECOVERY SYSTEM
- FORMER PIT THAT HAS BEEN FILLED AND CAPPED WITH CONCRETE
- UNDERGROUND AIR CONVEYANCE PIPING
- OW-8 / May-16 / 0.01 — WELL ID / MEASUREMENT DATE / LNAPL THICKNESS IN FEET
- LNAPL THICKNESS IN WELL ABOVE REMEDIAL ACTION OBJECTIVE (>0.01 FOOT)
- LNAPL — LIGHT NON-AQUEOUS PHASE LIQUID
- NM — NO MEASURABLE PRODUCT DETECTED IN WELL
- -- — NO MEASUREMENT WAS TAKEN DURING THIS EVENT



KEY MAP

0 100 200 400
SCALE, FEET

0 10 20 30
SCALE, FEET

THE ORIGINAL VERSION OF THIS DRAWING IS IN COLOR. BLACK & WHITE REPRODUCTION MAY NOT ACCURATELY DEPICT CERTAIN INFORMATION.

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REVISIONS

REV	DESCRIPTION	
1	Revised:	Appr.: Chkd:
2	Revised:	Appr.: Chkd:
3	Revised:	Appr.: Chkd:

SEAL

DATE

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APPROVED

LNAPL THICKNESS MEASUREMENTS FORMER HEAT TREAT DEPARTMENT

FORMER ROLLWAY BEARING CORPORATION FACILITY
LIVERPOOL, NEW YORK
PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP USA Inc.
5 SULLIVAN STREET
CAZENOVIA, NY 13035
TEL: +1 315.655.3900

FIGURE 1

Drawing Number
314V1545.018–009

ENCLOSURE A – OM&M LOG SHEETS

Table 1

Checklist
LNAPL Recovery System
Former Rollway Bearing Facility
Liverpool, NY

Date: 7/30/20
Arrival Time: 0940
Departure Time: 1230

Inspector (print): Nate Winston
Inspector (sign): [signature]
Weather Conditions: 77°F, sunny

Reason for Visit: OM&M

LNAPL Recovery System Skid

Gauge	O&M Reading		Typical Operation Reading	
	Reading	Units	Reading	Units
Inlet Vacuum: Before Vapor-Liquid Separator	**-70**	in H_2O	*-58 to -62*	in H_2O
Vacuum Before Air Filter	**-78**	in H_2O	*-66 to -68*	in H_2O
Vacuum After Air Filter/Before Blower Inlet	**-90**	in H_2O	*-86*	in H_2O
Discharge Stack Pressure	**2**	in H_2O	*2*	in H_2O
Discharge Stack Temperature	**145**	° F	*120 to 138*	° F
Kilowatt Hour Meter	**-**	kWh	-	kWh

LNAPL Recovery Wells

Well ID	O&M Reading		Typical Operation Reading	
	Vacuum (in H_2O)	Flow (SCFM)	Vacuum (in H_2O)	Flow (SCFM)
OW-2	-	**5.5**	*-40 to -54*	*3 to 7*
RW-1	-	**6**	*-5 to -11*	*5.5 to 7*
OW-3	-	**3.5**	*-6 to -11*	*2 to 3*
OW-8	-	**7**	*-8 to -10*	*4 to 11*

Notable Observations:

Vacuum readings on the LNAPL recovery wells could not be taken because portable gauge was broken. The kilowatt hours for the LNAPL recovery system skid were inadvertently not recorded.

System Maintenance:

Description of Maintenance Needed: _____

Date of Maintenance Completion:
_____

Table 1

Checklist
LNAPL Recovery System
Former Rollway Bearing Facility
Liverpool, NY

Date: 9/24/20
Arrival Time: 0900
Departure Time: 1415

Inspector (print): Nate Winston
Inspector (sign): [signature]
Weather Conditions: 55°F, sunny

Reason for Visit: OMM

LNAPL Recovery System Skid

Gauge	O&M Reading		Typical Operation Reading	
	Reading	Units	Reading	Units
Inlet Vacuum: Before Vapor-Liquid Separator	**-38**	in H_2O	*-58 to -62*	in H_2O
Vacuum Before Air Filter	**-47**	in H_2O	*-66 to -68*	in H_2O
Vacuum After Air Filter/Before Blower Inlet	**-74**	in H_2O	*-86*	in H_2O
Discharge Stack Pressure	**3.5**	in H_2O	*2*	in H_2O
Discharge Stack Temperature	**110**	° F	*120 to 138*	° F
Kilowatt Hour Meter	**159,327**	kWh	-	kWh

LNAPL Recovery Wells

Well ID	O&M Reading		Typical Operation Reading	
	Vacuum (in H_2O)	Flow (SCFM)	Vacuum (in H_2O)	Flow (SCFM)
OW-2	**-11**	**8**	*-40 to -54*	*3 to 7*
RW-1	**-6.5**	**10**	*-5 to -11*	*5.5 to 7*
OW-3	**-15.5**	**7**	*-6 to -11*	*2 to 3*
OW-8	**-7.5**	**5**	*-8 to -10*	*4 to 11*

Notable Observations:

The vacuum readings on the LNAPL recovery system skid were low compared to typical operation readings, which was most likely the result of replacing the inline and dilution filters on the system.

The vacuum reading on OW-2 was low (-11) compared to typical operation vacuum reading (-40 to -54).

System Maintenance:

Description of Maintenance Needed: *Evaluate cause of decrease in vacuum for OW-2 and perform required maintenance as needed.*

Date of Maintenance Completion:

ENCLOSURE B – ABSORBENT INSPECTION/REPLACEMENT FORMS

Field Form for Absorbent Inspection/Replacement
Former Rollway Bearing Facility
Liverpool, New York

Date: September 24, 2020 Inspector (print): Nathaniel Winston
Arrival Time: 09:00 Inspector (sign): _____
Departure Time: 14:15 Weather Conditions: 55 F, sunny

Well ID	Staining (Y/N)	Absorbent Replaced (Y/N)	Spent Absorbent Weight (g)
RW-1	Y	Y	1790.0
RW-2	**	Y	-
OW-1	Y	Y	743.5
OW-2	Y	Y	304.0
OW-3	Y	Y	404
OW-4	**	Y	-
OW-5	Y	Y	459.0
OW-8	*	N*	-
SB-5	N – Absorbent not installed correctly	N ***	-
SB-7	*	N*	-
SB-8	Y	Y	40.0
SB-10	*	N*	-
OW-10/FB-1	Y	Y	664
OW-9/FB-2	N - Dry	N***	-
OW-11/FB-4	Y	Y	1629

* = no absorbent in well and no measurable product observed
** = no absorbent in well and measurable product observed during September 24, 2020, site visit
*** = same absorbent left in well and not replaced.

Notable Observations:

OW-9/FB-2 appeared dry; absorbent in well SB-5 was not installed correctly in July

Well Maintenance:

Description of Maintenance Needed:

NA

Date of Maintenance Completion:

ENCLOSURE C – SUB-SLAB DEPRESSURIZATION SYSTEM RECORD DRAWINGS

INDEX OF DRAWINGS

DRAWING NUMBER	SHEET NUMBER	DESCRIPTION
314P1545.018-D14	1	TITLE SHEET
314P1545.018-D15	2	SSD SYSTEM LAYOUT
314P1545.018-D16	3	SSD SYSTEM CONSTRUCTION DETAILS

TITLE SHEET

SUB-SLAB DEPRESSURIZATION SYSTEM
RECORD DRAWINGS

FORMER ROLLWAY BEARING FACILITY
LIVERPOOL, NEW YORK

PREPARED FOR

EMERSON
ST. LOUIS, MISSOURI

D

REVISIONS | REV | DESCRIPTION

SEAL | DATE

DRAWN BY | CHECKED | APPROVED

TITLE SHEET

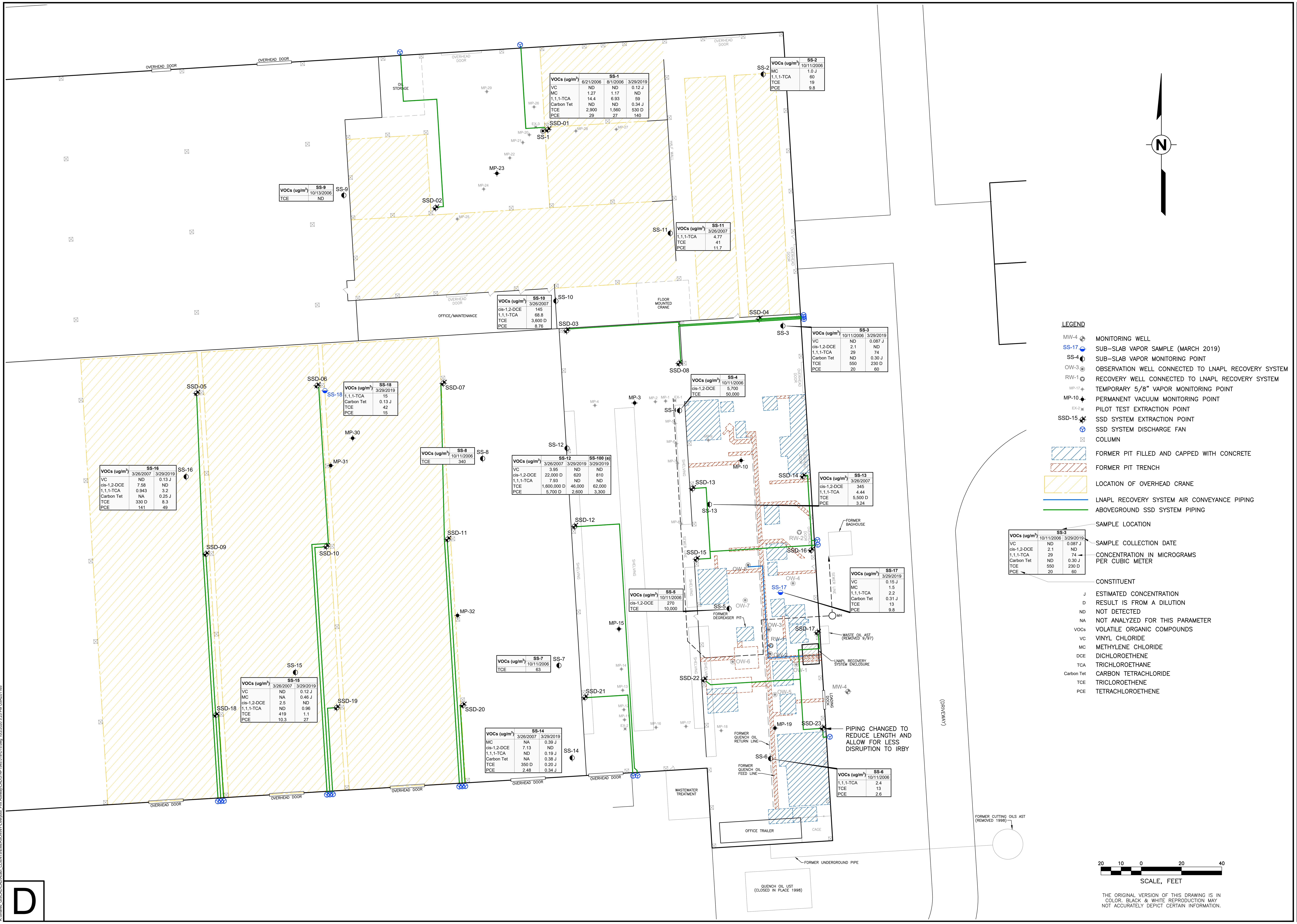
FORMER ROLLWAY BEARING FACILITY
LIVERPOOL, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP USA Inc.
7000 E. GENESEE ST. BLDG D, 2ND FLOOR
FAYETTEVILLE, NY 13066
TEL: +1 315.655.3900

SHEET 1

Drawing Number
314P1545.018-D14



VOCs (ug/m³)	SS-1 6/21/2006	SS-1 8/1/2006	SS-1 3/29/2019
VC	ND	ND	0.12 J
MC	1.27	1.17	ND
1,1,1-TCA	14.4	6.93	59
Carbon Tet	ND	ND	0.34 J
TCE	2,900	1,560	530 D
PCE	29	27	140

VOCs (ug/m³)	SS-2 10/11/2006
MC	1.0 J
1,1,1-TCA	60
TCE	19
PCE	9.8

VOCs (ug/m³)	SS-3 10/11/2006	SS-3 3/29/2019
VC	ND	0.087 J
cis-1,2-DCE	2.1	ND
1,1,1-TCA	29	74
Carbon Tet	ND	0.30 J
TCE	550	230 D
PCE	20	60

VOCs (ug/m³)	SS-4 10/11/2006
cis-1,2-DCE	5,700
TCE	50,000

VOCs (ug/m³)	SS-5 10/11/2006
cis-1,2-DCE	270
TCE	10,000

VOCs (ug/m³)	SS-6 10/11/2006
1,1,1-TCA	2.4
TCE	13
PCE	2.6

VOCs (ug/m³)	SS-7 10/11/2006
TCE	63

VOCs (ug/m³)	SS-8 10/11/2006
TCE	340

VOCs (ug/m³)	SS-9 10/13/2006
TCE	ND

VOCs (ug/m³)	SS-10 3/26/2007
cis-1,2-DCE	145
1,1,1-TCA	68.8
TCE	3,600 D
PCE	8.76

VOCs (ug/m³)	SS-11 3/26/2007
1,1,1-TCA	4.77
TCE	41
PCE	11.7

VOCs (ug/m³)	SS-12 3/26/2007	SS-12 3/29/2019	SS-100 (a) 3/29/2019
VC	3.95	ND	ND
cis-1,2-DCE	22,000 D	620	810
1,1,1-TCA	7.93	ND	ND
TCE	1,600,000 D	46,000	62,000
PCE	5,700 D	2,600	3,300

VOCs (ug/m³)	SS-13 3/26/2007
cis-1,2-DCE	345
1,1,1-TCA	4.44
TCE	5,500 D
PCE	3.24

VOCs (ug/m³)	SS-14 3/26/2007	SS-14 3/29/2019
MC	NA	0.39 J
cis-1,2-DCE	7.13	ND
1,1,1-TCA	ND	0.19 J
Carbon Tet	NA	0.38 J
TCE	350 D	0.20 J
PCE	2.48	0.34 J

VOCs (ug/m³)	SS-15 3/26/2007	SS-15 3/29/2019
VC	ND	0.12 J
MC	NA	0.46 J
cis-1,2-DCE	2.5	ND
1,1,1-TCA	ND	0.96
TCE	419	1.1
PCE	10.3	27

VOCs (ug/m³)	SS-16 3/26/2007	SS-16 3/29/2019
VC	ND	0.13 J
cis-1,2-DCE	7.58	ND
1,1,1-TCA	0.943	3.2
Carbon Tet	NA	0.25 J
TCE	330 D	8.3
PCE	141	49

VOCs (ug/m³)	SS-17 3/29/2019
VC	0.15 J
MC	1.5
1,1,1-TCA	2.2
Carbon Tet	0.31 J
TCE	13
PCE	9.8

VOCs (ug/m³)	SS-18 3/29/2019
1,1,1-TCA	15
Carbon Tet	0.13 J
TCE	42
PCE	15

REVISIONS

REV	DESCRIPTION		
1	Revised:	Chkd:	Appr.:
2	Revised:	Chkd:	Appr.:
3	Revised:	Chkd:	Appr.:

SEAL

DATE

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SSD SYSTEM LAYOUT

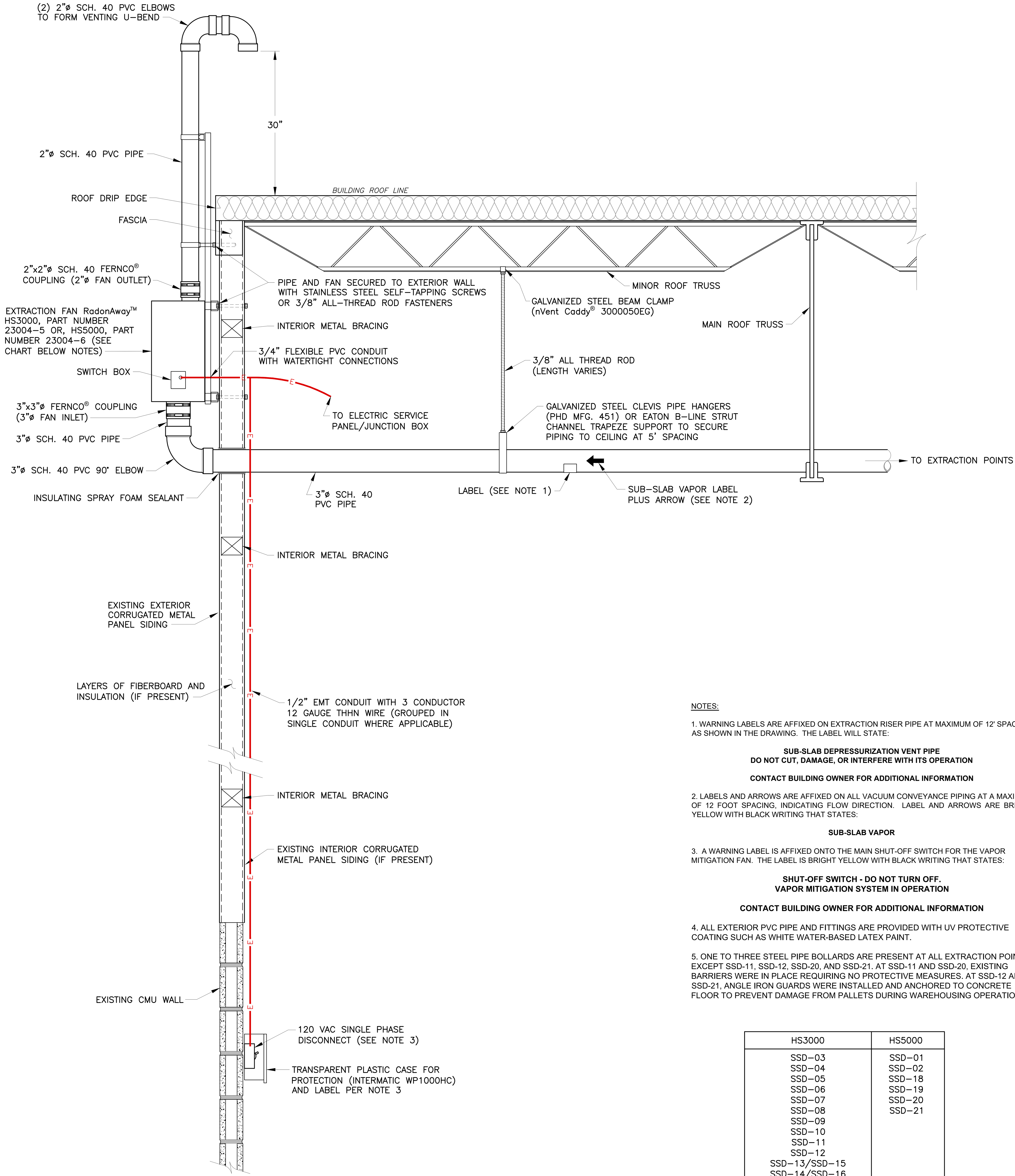
FORMER ROLLWAY BEARING FACILITY
LIVERPOOL, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP USA Inc.
7000 E. GENESEE ST. BLDG D, 2ND FLOOR
FAYETTEVILLE, NY 13066
TEL: +1 315.655.3900

SHEET 2

Drawing Number
314P1545.018–D15



TYPICAL EXHAUST PIPING DETAIL

NOT TO SCALE

NOTES:

1. WARNING LABELS ARE AFFIXED ON EXTRACTION RISER PIPE AT MAXIMUM OF 12' SPACING AS SHOWN IN THE DRAWING. THE LABEL WILL STATE:

SUB-SLAB DEPRESSURIZATION VENT PIPE
DO NOT CUT, DAMAGE, OR INTERFERE WITH ITS OPERATION

CONTACT BUILDING OWNER FOR ADDITIONAL INFORMATION

2. LABELS AND ARROWS ARE AFFIXED ON ALL VACUUM CONVEYANCE PIPING AT A MAXIMUM OF 12 FOOT SPACING, INDICATING FLOW DIRECTION. LABEL AND ARROWS ARE BRIGHT YELLOW WITH BLACK WRITING THAT STATES:

SUB-SLAB VAPOR

3. A WARNING LABEL IS AFFIXED ONTO THE MAIN SHUT-OFF SWITCH FOR THE VAPOR MITIGATION FAN. THE LABEL IS BRIGHT YELLOW WITH BLACK WRITING THAT STATES:

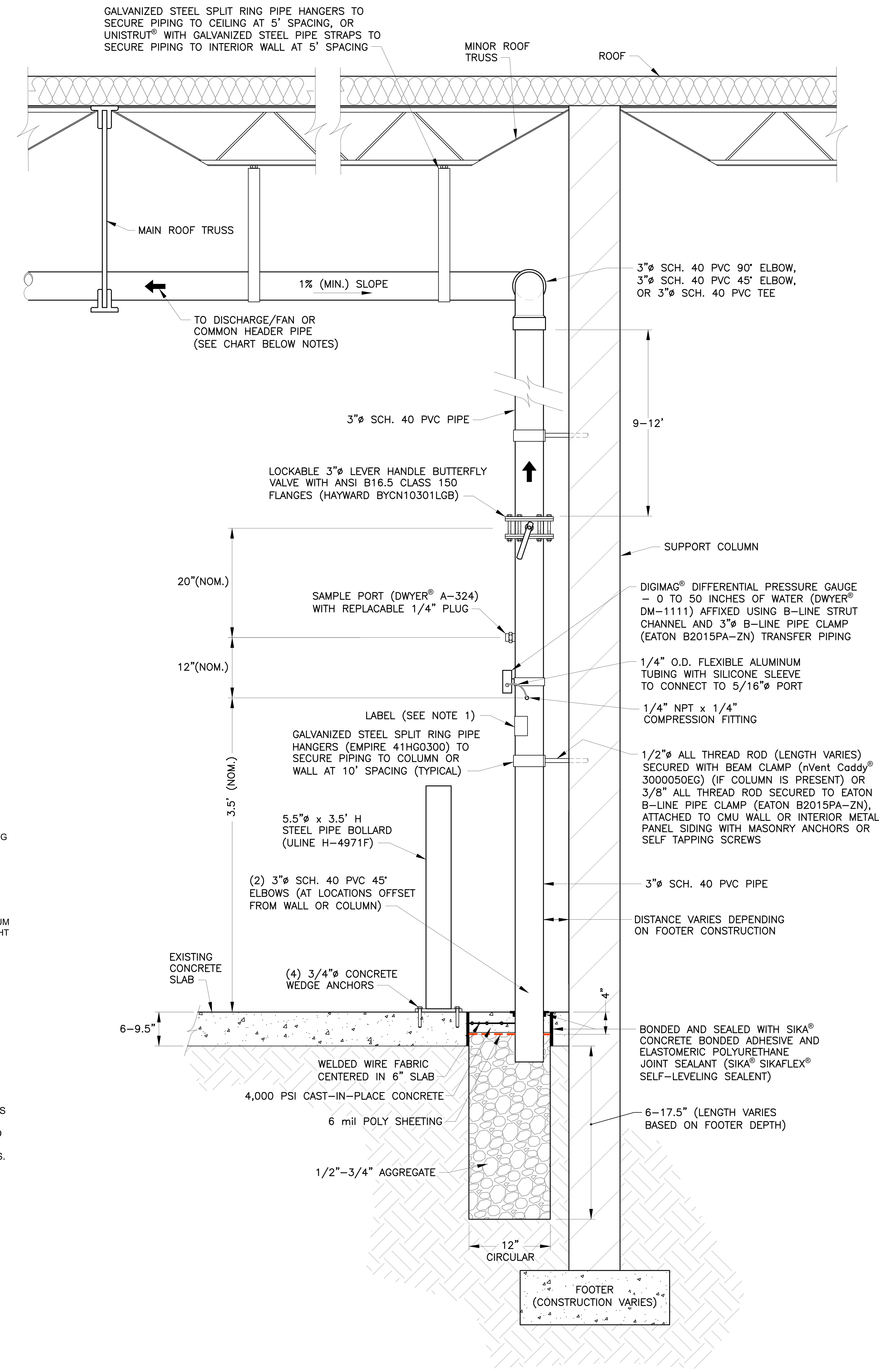
SHUT-OFF SWITCH - DO NOT TURN OFF.
VAPOR MITIGATION SYSTEM IN OPERATION

CONTACT BUILDING OWNER FOR ADDITIONAL INFORMATION

4. ALL EXTERIOR PVC PIPE AND FITTINGS ARE PROVIDED WITH UV PROTECTIVE COATING SUCH AS WHITE WATER-BASED LATEX PAINT.

5. ONE TO THREE STEEL PIPE BOLLARDS ARE PRESENT AT ALL EXTRACTION POINTS EXCEPT SSD-11, SSD-12, SSD-20, AND SSD-21. AT SSD-11 AND SSD-20, EXISTING BARRIERS WERE IN PLACE REQUIRING NO PROTECTIVE MEASURES. AT SSD-12 AND SSD-21, ANGLE IRON GUARDS WERE INSTALLED AND ANCHORED TO CONCRETE FLOOR TO PREVENT DAMAGE FROM PALLETS DURING WAREHOUSING OPERATIONS.

HS3000	HS5000
SSD-03	SSD-01
SSD-04	SSD-02
SSD-05	SSD-18
SSD-06	SSD-19
SSD-07	SSD-20
SSD-08	SSD-21
SSD-09	
SSD-10	
SSD-11	
SSD-12	
SSD-13/SSD-15	
SSD-14/SSD-16	
SSD-17/SSD-22/SSD-23	



TYPICAL EXTRACTION POINT AND EXHAUST RISER INSTALLATION DETAIL

NOT TO SCALE

D

REVISIONS

REV	DESCRIPTION

SEAL

DATE

DRAWN BY
CHECKED
APPROVED

SSD SYSTEM CONSTRUCTION DETAILS

FORMER ROLLWAY BEARING FACILITY
LIVERPOOL, NEW YORK

PREPARED FOR
EMERSON
ST. LOUIS, MISSOURI

WSP USA Inc.
7000 E. GENESEE ST. BLDG D, 2ND FLOOR
FAYETTEVILLE, NY 13066
TEL: +1 315.655.3900

SHEET 3

Drawing Number
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