PROCUREMENT DEPARTMENT
Rm 120 Municipal Services Building
Philadelphia, PA 19102-1685
FAX: (215) 686-4716

CITY OF PHILADELPHIA

Trevor Day
Acting Procurement Commissioner

January 14, 2016

BID NUMBER: S6CA0240

TITLE: Purchase and Installation of Deicing (Tank) System for Northeast Airport (PNE)

DEPARTMENT: Commerce Department-Aviation Division

DATE TO OPEN: January 20, 2016 at 10:30 AM

ADDENDUM # 1

TO ALL BIDDERS:

You are hereby notified of the following changes to the above mentioned bid:

The bid opening will be postponed to January 27, 2016 at 10:30 AM

The attendance sheet from the Mandatory Pre-Bid Meeting held on January 6, 2016 is attached.

Please see the following Questions and Answers Resulting from the Mandatory Pre-Bid Meeting:

1. Can you confirm what the de-icing agent is that we are disposing of?
   The deicing agent currently in the tank is potassium acetate however the airport will be removing the majority of the agent except for maybe 4 inches or so of product in the very bottom of the tank.

2. Can you confirm what the new deicing agent is going to be?
   Potassium acetate is being used currently but can be subject to change.

3. Will the new tank require a liner?
   No

4. Will you know how much deicer will be left in the tank at the time of removal?
   The airport will remove as much of the deicer as possible but expect there to still be about 4 inches of product that cannot be removed.

5. Will the remaining deicer be disposed of- or will it be stored on-site for re-use in the new tank?
   The airport will remove as much of the deicer as possible and store it in a holding tank to be put back into the new tank after installation. It will be stored on-site for re-use. Expect there may be about 4-inches of deicer remaining in the bottom of the tank.

6. Will the airport be able to reassure us that the current concrete pad will support the new 10,000 gallon tank?
   Yes with a modification that the airport will complete. The modification requires the airport to purchase two I-beams and place on the pad once the existing tank is removed for the new tank to sit on to disperse the weight of the tank and product to the pad's footers.

7. Please confirm that the airport will supply and install the bollards as required.
   The airport will supply and install the bollards as required.

8. What happens to the current contents of the tank?
   The airport will remove and store as much of the current contents of the tank as possible expect however there to be approximately 4-inches of product remaining in the tank.

9. Is this a prevailing wage project at the NE Airport?
   No.

10. . Will the city supply the necessary PE sealed drawings in order to secure the permits?
    Yes

11. Is the current tank registered with PADEP? And if so are all fees current?
    Not required to be registered with PADEP.

12. Is the existing tank lined?
    We do not know if it is or was

13. Will the existing tank be emptied of all product prior to removal? If how much product will remain for the contractor to dispose of?
    The airport will empty as much of the product as possible but expect there could be about 4-inches remaining in the tank the airport could not remove.

14. Has the city verified that the existing slab to be reused is capable of holding twice the weight of the existing tank? Existing is 5,000 gallon and new is 10,000 gallon.
15. Yes with a modification that the airport will complete. The modification requires the airport to purchase two I-beams and place on the pad once the existing tank is removed for the new tank to sit on to disperse the weight of the tank and product to the pad's footers.

16. Has the city verified that there is enough electric capacity to support the new tank and pumps?
    What has been verified is the power available at the site which is 3 phase, 208 volts, 30 amp

17. What voltage and amperage is available next to the tanks so that we can price the right pumps units?
    3 phase, 208 volts, 30 amp and the airport electrician said if needed he can go a little bigger up to 50 or 60 amps maximum.

18. Are the bollards furnished and installed by the Airport?
    Yes

19. Will the City identify and mark out all utilities within the construction area?
    The airport can mark known utilities

20. Will the pumping units need to be UL listed to comply with State L & I requirements?
    Yes

21. Will the City L & I or State L & I do the final inspection on the electrical?
    City L&I

22. Is there any restriction as to the Crane height that can be used?
    No

23. Who will do the NOTAM, PNE or the Contractor and how much notice is required?
    If needed, the airport will do the NOTAM with a 24-hour's notice from contractor

24. Will you require an emergency stop for the pumps, and an emergency phone for the installation per State L & I?
    No

25. The Exterior Finish as noted is primer, are you sure you do not want a white finish coat?
    Only primer, airport painters will paint once installed

26. Specs call for a Pneumercator Alarm System, but you have a Veeder Root system in close proximity to the tank. Using that should save the City some money.
    The Veeder Root in close proximity belongs to another City agency not the airport and cannot be used.

27. Specs call for a Flexible Inventory Probe, do you want a stainless steel mag probe not flexible?
    Flexible

28. The Control Panel called out in the spec is it a Nema 4X enclosure and if so is it stainless steel?
    Nema Type 4 and stainless steel

29. Is the Control Panel for the pump starters or for the alarm panel or both?
    Both

30. I know it was discussed at the prebid, but to verify we do not follow PHL security protocol?
    No PHL badges are required, no green contractor badges are required. What is required is a certified letter from the general contractor stating that everyone who will work on the project has had a background check.

31. Do you want the tank lined and if so, what millage and resistant to what material?
    Not lined

32. Will the contractor be required to use LCP Tracker?
    No

33. Awarded Vendor is responsible for Zoning and Removal Installation Permits. This can be costly due to new L & I Regulations and a definitive number cannot be included in our bid. Will the City be able to put a predetermined amount in the Bid and if the actual costs for securing the permits is higher, the contractor will be reimbursed?
    No, all permits will be the responsibility of the awarded vendor.

Please sign, date and return this addendum with your bid to the Procurement Department, 1401 J.F.K Boulevard, Bid Room 170A, Philadelphia, PA 19102-1685 as it now becomes a part of the proposal.

S. Brown, Buyer

_____
AUTHORIZED SIGNATURE

_____
FIRM NAME (PRINT)

_____
DATE

SB/ cw

SIGN-IN SHEET
PROCUREMENT DEPARTMENT
MANDATORY PRE-BID MEETING
Wednesday, January 6, 2016 AT 12:00 PM
S6-CA024-0
Purchase and Installation of Deicing System for Northeast Airport (PNE)

	NAME	COMPANY NAME OR DEPARTMENT/Unit	Phone/Email
1.	Shaunese Brown	Procurement	6-4705
2.	Henry A Miniscalco	Miniscalco	267-246-1460 hminiscalco@miniscalco.com hminiscalco@miniscalco.com
3.	Bill Gates	VRH Constr.	w.gates@VRHCorp.com
4.	Kevin Owens	Procurement	6-4730
5.	John Brewer	DOA-PNE	-7968/ john.brewer@phl.org
6.	Kim V. Rhone	DOA	Kim.rhone@phl.org 215 937-5509
7.	Elizabeth Leon Mendoza	DOA	elizabeth.mendoza@phl.org 215-937-5507
8.	Richard R. Todd	DOA	215 937 6963
9.	Charles Rodd	YCP, INC	215-331-1656 - crodd@ycpinc.net
10.	BRIAN GRANIT	T.T.I. ENV.	856 840 8800 BRIANG@TTIENV.com

SIGN-IN SHEET
PROCUREMENT DEPARTMENT
MANDATORY PRE-BID MEETING
Wednesday, January 6, 2016 AT 12:00 PM
S6-CA024-0
Purchase and Installation of Deicing System for Northeast Airport (PNE)

	NAME	COMPANY NAME OR DEPARTMENT/Unit	Phone/Email
1.	Hannah Laurel Ashlock	Procurement	
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

PROCUREMENT DEPARTMENT
Rm 120 Municipal Services Building
Philadelphia, PA 19102-1685
FAX: (215) 686-4716

CITY OF PHILADELPHIA

Trevor Day
Acting Procurement Commissioner

January 15, 2016

BID NUMBER: S6CA0240

TITLE: Installation of Deicing (Tank) System for Northeast Airport (PNE)

DEPARTMENT: Commerce Department-Aviation Division

DATE TO OPEN: January 27, 2016 at 10:30 AM

ADDENDUM # 2

TO ALL BIDDERS:
You are hereby notified of the following changes to the above mentioned bid:

The attendance sheet from the Mandatory Pre-Bid Meeting held on January 6, 2016, Exhibit A and Grading Plans are attached.

Please see the following Questions and Answers Resulting from the Mandatory Pre-Bid Meeting:

1. Please provide a larger view of the foundation detail shown on the bottom corner of Exhibit "A".
   We can send the Exhibit in a .pdf file over email which can then be zoomed in on

2. Can PHL provide existing Grading plans for use in L&I permitting?
   I don't have grading plans that would have to come through engineering

3. Will the existing tank be pumped dry and cleaned or will the awarded contractor be responsible for this?
   The airport will pump out as much as possible but expect there to be some residual product left in the tank which the contractor will have to remove then clean the tank.

4. Please provided MSDS/SDS sheets for chemicals in the tank?
   Attached as a .pdf

5. Power presently exits the breaker panel and conduit is all exposed on top of spill containment, will exposed conduit be acceptable with new tank installation?
   Yes as long as it is in rigid conduit

6. What is the meaning of: (for reference only) in the scope of work? Is this the basis of design or reference only?
   It is my understanding that what is shown are minimal requirements for bidding on the project so it is reference only having to meet or exceed what is shown in the bid

7. Tank is called out to be primed, is any other paint included in this RFP?

   No only primer

8. Where will the "tank fill" be located, on top of the tank or down at ground level? If ground level, is there a recommended fill port
   If I understand the question when the tanker comes now to fill our tank the fill is approximately two feet above the ground. I am not sure what is meant by "recommended fill port"

9. Please confirm the security/badging requirements at PNE?

   No PHL contractor badge is required however the general contractor must submit a certified letter that all employees working on the project have had a background check

10. Confirm Bollards will be supplied and installed by the City?
    Yes, the airport is supplying and installing the bollards

Please sign, date and return this addendum with your bid to the Procurement Department, 1401 J.F.K Boulevard, Bid Room 170A, Philadelphia, PA 19102-1685 as it now becomes a part of the proposal.

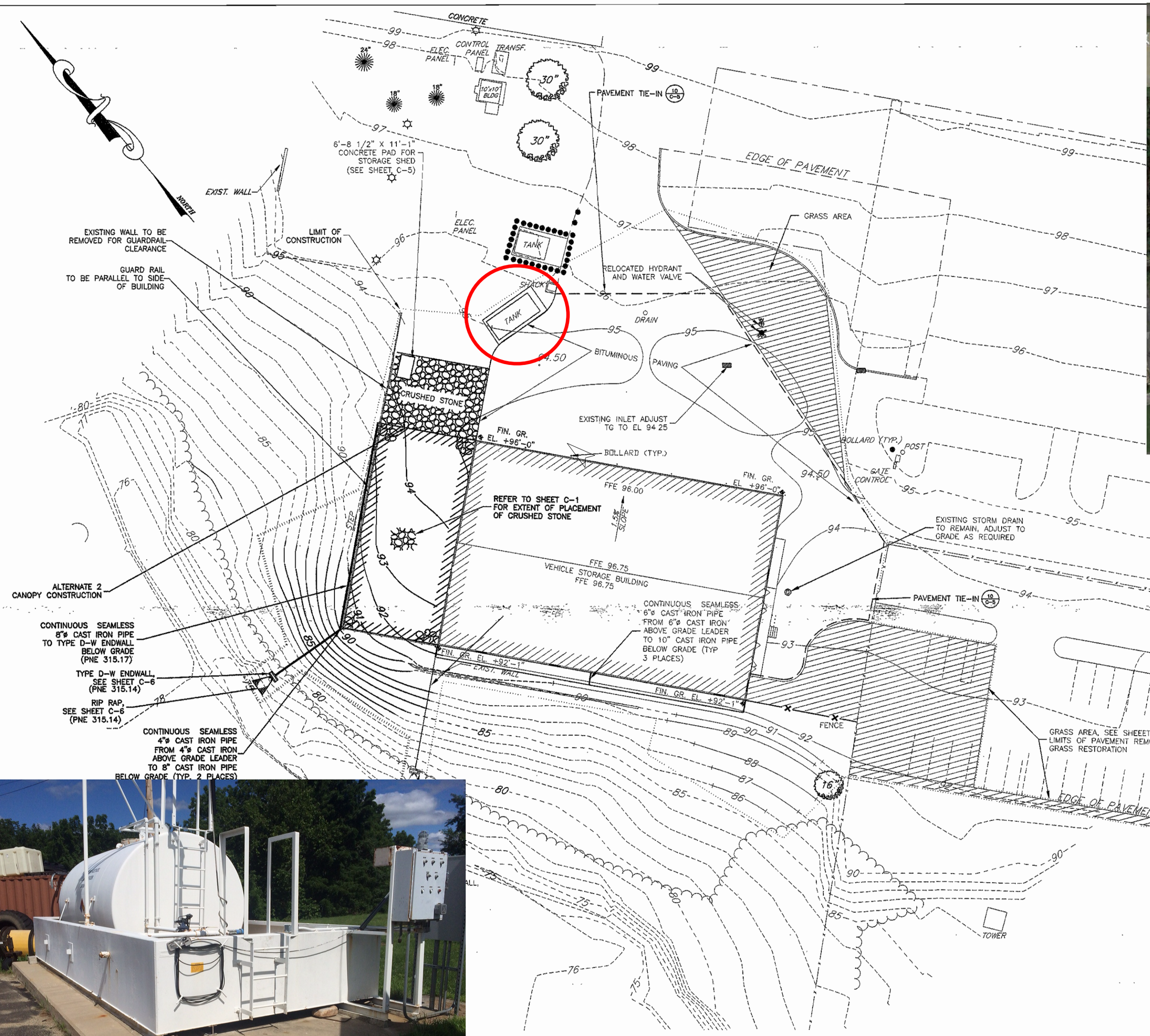
S. Brown, Buyer

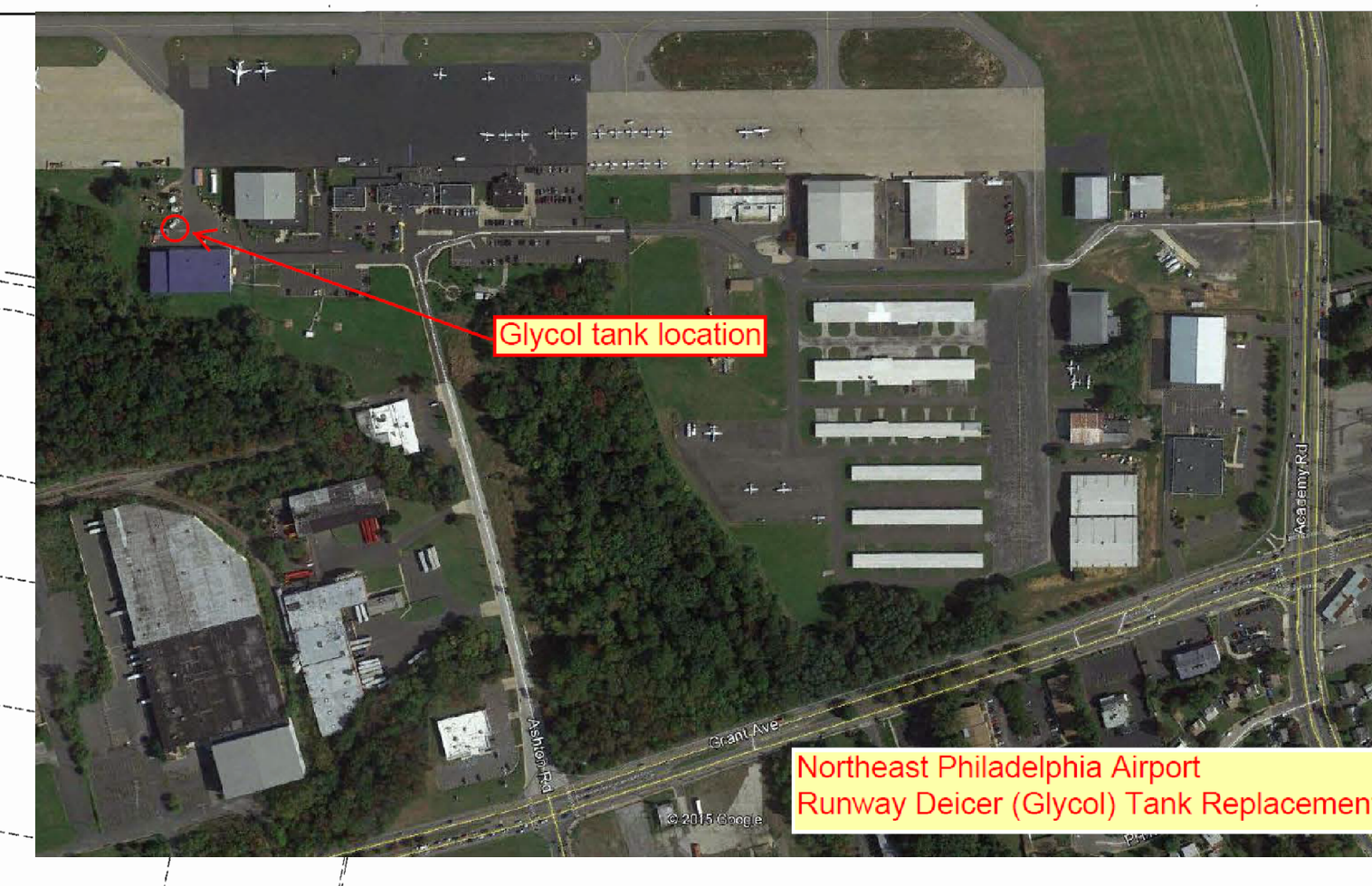
_____
AUTHORIZED SIGNATURE

_____
FIRM NAME (PRINT)

_____
DATE

SB/ cw





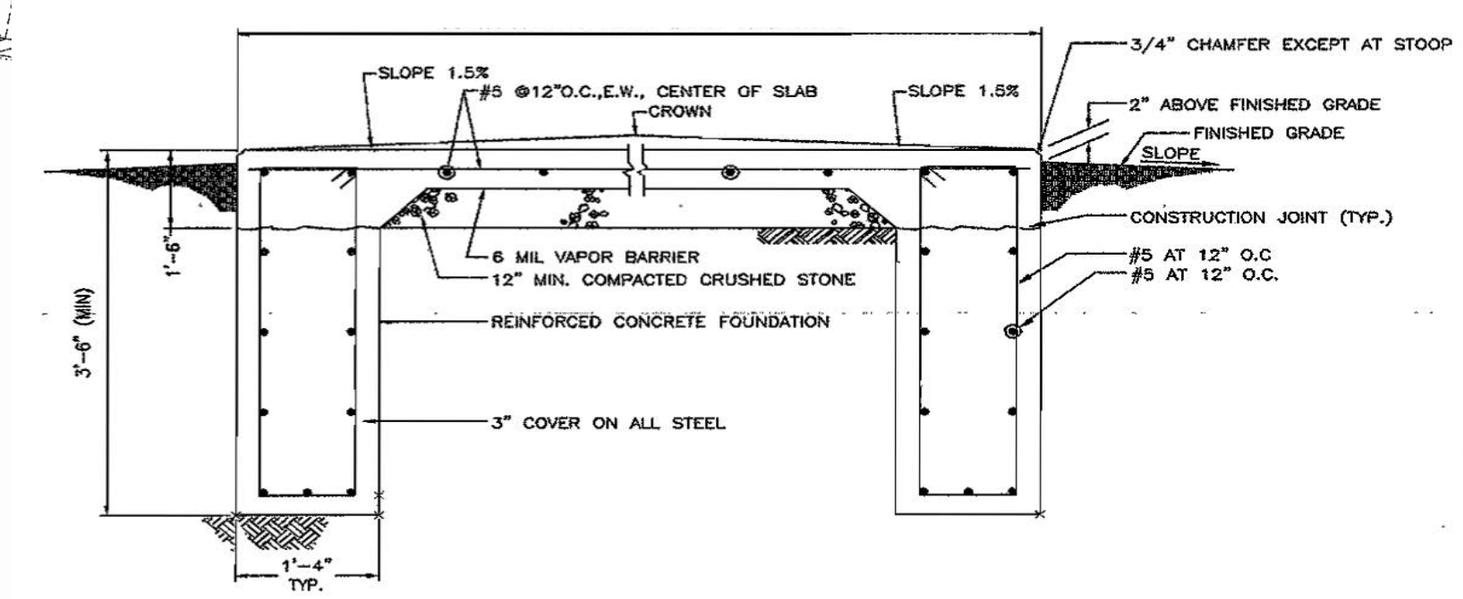
LEGEND:

- STORM DRAINAGE MANHOLE
- MANHOLE (UNKNOWN TYPE) (LID MARKINGS INDICATED)
- SANITARY SEWER MANHOLE
- STORM SEWER INLET
- BOLLARD
- FIRE HYDRANT
- WATER VALVE
- LIGHT
- PINE TREE
- 18" DECIDUOUS TREE
- 90 MAJOR CONTOUR
- 99 MINOR CONTOUR
- EDGE OF NEW PAVEMENT
- CURB
- 95 PROPOSED CONTOUR
- PROPOSED SILT FENCE
- LIMIT OF CONSTRUCTION
- EXISTING TREELINE

Existing Concrete Pad is 14' wide x 18' long

GRADING PLAN WITH ALTERNATE 2 SHOWN

SCALE: 1" = 20'



SECTION ETHYLENE GLYCOL TANK FOUNDATION (PNE 315.14)

NOT TO SCALE

5
C-5

Exhibit "A"

CRYOTECH E36®
MATERIAL SAFETY DATA SHEET

1. PRODUCT NAME & DESCRIPTION

CRYOTECH E36® Liquid Runway Deicer
Complies with Specification AMS 1435

MANUFACTURED AND SUPPLIED IN THE USA BY:
Cryotech Deicing Technology
6103 Orthoway
Fort Madison, IA 52627
United States

CRYOTECH CONTACT INFORMATION:
Telephone: (800)346-7237
FAX: (319)372-2662
email: deicers@cryotech.com
website: http://www.cryotech.com

2. CHEMICAL COMPOSITION

The percent compositions are given to allow for the various ranges of the components present in the whole product and may not equal 100%.

PERCENT	COMPONENT	CAS#
100%	Cryotech E36® Liquid Runway Deicer	
CONTAINING		
50%	Potassium Acetate	127-08-2
<1.0%	Corrosion Inhibitors in	
50%	Water	7732-18-5

CAS - Chemical Abstract Service Number

3. HAZARD IDENTIFICATION
(also see Sections 11 and 12)

CAUTION! - MAY CAUSE EYE IRRITATION

EYE CONTACT:
This substance is slightly irritating to the eyes and could cause prolonged (days) impairment of your vision. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Signs and symptoms may include pain, tears, swelling, redness and blurred vision.
SKIN IRRITATION:
This substance is not expected to cause prolonged or significant skin irritation.
DERMAL TOXICITY:
The systematic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets on the skin.
RESPIRATORY/INHALATION:
This material does not present an inhalation hazard.
INGESTION:
If swallowed, this substance is considered practically non-toxic to internal organs. Ingestion may cause irritation of the digestive tract which may result in nausea, vomiting and diarrhea.
This product contains potassium salts. Ingestion of large amounts (25 or more grams) of potassium salts usually causes a person to vomit. If the person is not suffering from a preexisting kidney condition, the absorbed potassium is rapidly excreted in the urine. However, very young children or individuals with compromised kidney and/or cardiac function could experience the following effects after ingesting excessively large doses of potassium salts: irritation and inflammation of the stomach lining, muscular weakness, burning, tingling and numbness sensations of hands and feet, slower heart beat, reduced blood pressure, irregular heart beat and cardiac arrest.
OCCUPATIONAL EXPOSURE LIMITS:
None identified

4. FIRST AID MEASURES

Chemical Emergency: Spill, leak, fire, or accident call
Chemtrec day or night (800)424-9300;
Outside continental USA call (703)527-3887

EYE CONTACT:
Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. Remove contact lenses if worn. No additional first aid should be necessary. However, if irritation persists, see a doctor.
SKIN CONTACT:
No first aid procedures are required. As a precaution, wash skin thoroughly with soap and water. Remove and wash contaminated clothing.
INHALATION:
Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.
INGESTION:
If swallowed, give water or milk to drink and telephone for medical advice. DO NOT make the person vomit unless directed to do so by medical personnel. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

5. FIRE FIGHTING MEASURES

FLASH POINT:
>100°C
AUTO IGNITION:
No data available
FLAMMABILITY LIMITS (% by volume in air):
Lower: No data available
Upper: No data available
Non-flammable
EXTINGUISHING MEDIA:
Use extinguishing media appropriate for surrounding fire.
FIRE FIGHTING PROCEDURES:
Fire fighters should wear proper protective equipment, self-contained breathing apparatus with full face piece operated in positive pressure mode.
COMBUSTION PRODUCTS:
Normal combustion forms carbon dioxide and water.
NFPA RATINGS:
Health 1; Flammability 0; Reactivity 0; Special NDA:
(Least - 0, Slight - 1, Moderate - 2, High - 3, Extreme - 4)
These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint Coating Association.

6. ACCIDENTAL RELEASE MEASURES

Chemical Emergency: Spill, leak, fire, or accident call
Chemtrec day or night (800)424-9300;
Outside continental USA call (703)527-3887

SPILL/LEAK PRECAUTIONS:
Contain spillage and absorb on suitable material e.g. sawdust, sand or earth. Transfer to a container for disposal. See section 13.
Wash the spillage area with plenty of water.

7. HANDLING AND STORAGE

STORAGE:
Store in clean vessels and containers away from direct heat and strong oxidizing agents. Do not store or handle product with systems constructed of wetted parts that have galvanized steel, zinc or brass components.
SPECIAL PRECAUTIONS:
Avoid contact with skin and eyes. Avoid breathing mist when spraying.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:
Do not get this material in your eyes. Eye contact can be avoided by wearing chemical goggles.
SKIN PROTECTION:
No special skin protection is usually necessary. Avoid prolonged or frequently repeated skin contact with this material. Skin contact can be minimized by wearing protective clothing.
RESPIRATORY PROTECTION:
No special respiratory protection is normally required.
VENTILATION:
No special ventilation is necessary.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:
Clear, colorless to light straw colored liquid. (Often dyed blue at customer request)
pH (20°C):
10.5 - 11.5
BOILING POINT:
~115°C
SPECIFIC GRAVITY (20°C):
1.28
EVAPORATION:
No data available
VAPOR PRESSURE (20°C):
17 mm Hg
PERCENT VOLATILE (VOLUME %):
No data available
VAPOR DENSITY (AIR = 1):
No data available
VISCOSITY (20°C):
6.5 cP
FREEZING POINT:
-60°C
SOLUBILITY:
Completely miscible in water.

10. STABILITY & REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:
None known.
STABILITY:
Stable
HAZARDOUS POLYMERIZATION:
Polymerization will not occur.
INCOMPATIBILITY:
May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc. Avoid prolonged contact with reactive metals such as magnesium and zinc, especially in closed systems where hydrogen gas may accumulate over time.
SPECIAL PRECAUTIONS:
READ AND OBSERVE ALL PRECAUTIONS ON PRODUCT LABEL.
Store away from strong oxidizing materials.

11. TOXICOLOGICAL INFORMATION

EYE IRRITATION:
No product toxicology data available. The hazard evaluation was based on data from similar products.
SKIN IRRITATION:
No product toxicology data available. The hazard evaluation was based on data from similar products.
DERMAL TOXICITY:
No product toxicology data available. The hazard evaluation was based on data from similar products.
RESPIRATORY/INHALATION:
No product toxicology data available. The hazard evaluation was based on data from similar products.
INGESTION:
The oral LD50 in rats is greater than 5.0 g/kg.

12. ECOLOGICAL INFORMATION

COD (TOD): 0.32 g O_2/g deicer

BOD_5 @ 20° C: 0.25 g O_2/g deicer

13. DISPOSAL CONSIDERATION

Based on information available to Cryotech Deicing Technology, this product is neither listed as a hazardous waste nor does it exhibit any of the characteristics that would cause it to be classified or disposed of as an RCRA hazardous waste. If product should spill or be otherwise unsuitable for normal deicing applications, it may be absorbed on suitable materials and disposed of in sanitary landfill unless state or local regulations prohibit such disposal.

14. TRANSPORT INFORMATION

Not restricted under any transport regulations.

15. REGULATORY INFORMATION

ALL OF THE COMPONENTS IN THIS PRODUCT ARE ON THE FOLLOWING INVENTORY LISTS:
U.S.A. (TSCA)
Europe (EINECS)
Canada (DSL/NDSL)
TSCA SECTION 12(b):
None of the components in this product are regulated under TSCA Section 12(b).
OSHA HAZARD CLASSIFICATION:
Hazardous Chemical (Irritant);
None of the components in this product are considered highly hazardous by OSHA.
CERCLA HAZARDOUS SUBSTANCES:
There is no CERCLA Reportable Quantity for this material.
SARA 311 CATEGORIES:

Immediate (Acute) Health Hazard:	Yes
Delayed (Chronic) Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

SARA 313:
None of the components in this product are subject to reporting under SARA Section 313.
CLEAN WATER ACT:
None of the components in this product are listed as Priority Pollutants under the CWA.
None of the components in this product are listed as Toxic Pollutants under the CWA.
STATE RIGHT-TO-KNOW:
This product does not contain components at levels which are required to be reported under the statutes of the following states: PA, MA, NJ
This product does not contain components known to the State of California (Proposition 65) to cause cancer and/or reproductive harm at levels which would require a warning under the statute.
WHMIS (Canada) CLASSIFICATION:
Not controlled

16. OTHER INFORMATION

This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS. Discard any previous edition of this MSDS.

Latest version of this MSDS can be found at http://www.cryotech.com

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, **Cryotech Deicing Technology, a Division of General Atomics International Services Corporation makes no warranty, either express or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon.** Cryotech Deicing Technology, a Division of General Atomics International Services Corporation assumes no responsibility for any injury or loss resulting from the use of the product described herein. User should satisfy himself that he has all current data relevant to his particular use.