

SECTION B – FACILITY DESCRIPTION

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SECTION B – FACILITY DESCRIPTION

B-1 General Description [40 Code of Federal Regulations {CFR} §270.14(b)(1)]

Day & Zimmermann Kansas LLC (D&Z) is in the southeast corner of Kansas, approximately 3 miles east of the town of Parsons, and 2 miles south of U.S. Highway 400 in Labette County (see Figure B-1). The facility is owned and operated by D&Z, a privately-owned company. The facility now occupied by D&Z was constructed in 1941-1942 and was part of what was formerly the Kansas Army Ammunition Plant (KSAAP). D&Z has operated the facility continuously from March 1, 1970, to the present, and assumed ownership of the facility on July 11, 2013. The D&Z organizational structure is shown on Figure B-2.

The facility covers approximately 4,000 acres, and includes 27.4 miles of roadway and 9.25 miles of railroad. D&Z has over 954,574 feet of building and storage areas. The legal description of the property and a map identifying the specific parcels are included in Appendix B-1. The Union Pacific Railroad serves the facility.

In the past, the D&Z facility's operations included loading detonation bombs (100 pounds [lbs], 250 lbs, 750 lbs, and 1,000 lbs), cluster bombs (CBU), artillery ammunition (105 millimeter [mm], 75 mm, and 4.2 inch shells), and mortars (60 and 81 mm). The D&Z facility manufactured various components, including fuzes, primers, detonators, relays, boosters, and supplementary charges; and reworked fired 105 mm cartridge cases (brass).

Currently two manufacturing areas and three storage areas are present at the D&Z facility. Current operations include loading, assembling, and packing munitions items. The facility does not currently manufacture propellants or pyrotechnic (PEP) components, but does assemble them into munition items. The facility has the capability to produce the explosive potassium dinitrobenzofuran (KDNBF). This is the only explosive that could be produced at D&Z. The facility has received ammunition from other facilities owned or operated by D&Z and by the Department of Defense (DoD). D&Z has also disassembled (demilitarized) materials (not hazardous waste) received from DoD facilities. See Table B-1 for a summary of areas of operation at D&Z (see Figure B-3).

D&Z has Kansas hazardous waste program hazardous waste container storage areas that store wastes for more than 90 days. In addition, the facility provides thermal treatment through open detonation (OD) on site for reactive hazardous wastes generated on site and off site at other D&Z facilities. The OD grounds are also regulated under the Kansas hazardous waste program. See the facility's Part A application (Section A) for a listing of the Kansas hazardous waste program units at the facility. Additional information concerning thermal treatment and hazardous waste storage is provided in the subsections below.

Open Detonation (Thermal Treatment)

The OD area (referred to as the OD Grounds) is within the 2700 Area (see Figure B-3) and is used to thermally treat reactive hazardous wastes. These wastes result from the facility's munitions filling and manufacturing operations, from packing of explosive items for shipment, or from demilitarizing ammunition manufactured on site. The wastes treated on the OD grounds include explosives, and pyrotechnic (PEP) components; reject munitions with PEP components; or other reactive hazardous wastes that cannot be treated off site. A list of description data regarding these hazardous wastes potentially managed at the OD grounds is in Table C-4 (Section C). The OD process is described in greater detail in Section D – Process Description.

The only type of OD activities that occurs at D&Z for thermal treatment of hazardous wastes is open detonation in pits. The OD unit has been in use since constructed in 1967. From 1967 until 1970, other parties operated the unit. D&Z began OD operations in the unit in 1970. The OD grounds are within the northeast part of the facility, and encompass approximately 1,070,900 square feet. The OD grounds layout consists of linear earthen mounds aligned in three east-west oriented rows separated by aisles approximately 250 feet wide (i.e., of sufficient width to allow access by heavy earth-moving equipment). The OD grounds are enclosed by a 6-foot chain link fence. Warning signs for restricted entry are posted at all entrance locations.

For these wastes, the OD occurs in pits excavated on the south side of the mounds. After the wastes are placed in the pits, they are covered with dirt and detonated. Detonations are triggered via an electrical train by a remote operator located in an earthen-protected bunker. After the detonation is complete, all scrap metal and other visible residues are removed, and the detonation pits are backfilled and graded to the natural ground elevation.

The estimated types and amounts of wastes thermally treated at the OD grounds are listed in Table B-2. Military chemical warfare agents, smokes, and related compounds are not treated at the OD grounds (see Section C). Additional process information regarding the OD unit appears in Section D – Process Description.

Hazardous Waste Container Storage

Hazardous wastes generated at the facility are stored in 12 permitted container storage units on site prior to thermal treatment on site, or disposal off site at an appropriate permitted Treatment, Storage, and Disposal Facility (TSDF). The permitted storage units consist of 11 igloo structures within the 1900 and 2700 Areas, and one magazine structure within the 1800 Area. All the hazardous waste is stored in U.S. Department of Transportation approved containers compatible with the waste materials. See Section D – Process Information for specific container types.

Three separate areas within D&Z host Kansas hazardous waste program-regulated hazardous waste storage units (see Figure B-3)—the 1800 area magazines, the 1900 area igloos, and the 2700 area igloos. See Section D for a discussion of the maximum amount of waste stored in the hazardous waste storage units at D&Z.

The 1800 Area Magazines are within the southeastern portion of the D&Z facility (see Figure B-3). Magazine 1816 will be used for storage of hazardous wastes. See Figure B-4 for the layout of the 1800 Magazine Area. See Section D for a more detailed description of magazine design, storage capacities, and containment systems. Waste characteristics are discussed in Section C.

The 1900 Area Igloos are within the southeastern portion of the D&Z facility (see Figure B-3). Igloos 1934, 1935, 1936, 1942, 1967, 1969, 1970, and 1979 will be used for storage of hazardous wastes. See Figure B-5 for the layout of the 1900 Area Igloos. See Section D for a more detailed description of igloo design, storage capacities, and containment systems. Waste characteristics are discussed in Section C.

The 2700 Area Igloos are within the east-central portion of the D&Z facility (see Figure B-3). Igloos 2707, 2708, and 2709 are used for storage of hazardous wastes. See Figure B-6 for the layout of the 2700 Area Igloos. See Section D for a more detailed description of igloo design, storage capacities, and containment systems. Waste characteristics are discussed in Section C.

B-2 Topographic Maps [40 CFR §270.14(b)(19)]

Figure B-7 shows the D&Z facility at a scale of 1 inch = 1,400 feet and contour intervals of 10 feet. The 1800 Magazine Area is within Sections 1 and 12, Township 32 South, Range 21 East. The 1900 Area Igloos are within Sections 12 and 13, Township 32 South, Range 20 East. The 2700 Area Igloos are within Sections 5 and 6, Township 32 South, Range 21 East. The OD unit is within Sections 5 and 6, Township 32 South, Range 1 East. The 1000 Area is within Section 35, Township 31 South, Range 20 East and Section 2, Township 32 South, Range 20 East, and the 1100 Area is within Section 2, Township 32 South, Range 20 East. Legal boundaries are noted on Figure B-7. The legal description of the three parcels that comprise the facility and a map identifying the parcels is included in Appendix B-1. The entire facility is too large to be shown on a single map at a larger scale. As the topographic map of the entire facility shows the geographic location and topographic character of the hazardous waste management units with sufficient specificity, a waiver from the mapping requirement of 40 CFR §270.14(b)(19) is requested.

The D&Z facility lies within the drainage basin of the Neosho River, a tributary of the Arkansas River. A Flood Hazard Boundary Map prepared by the U.S. Department of Housing and Urban Development was utilized to delineate the approximate 100-year floodplain for watercourses in Labette County, Kansas. The OD grounds, storage units, and production buildings do not lie within the boundaries of the 100-year floodplain (Figure B-8). No barriers are necessary for flood protection for the units. Naturally occurring intermittent watercourses provide adequate drainage for the OD and storage units. Storm drainage for the facility is depicted on Figure B-7.

The eastern boundary of D&Z is about 1.5 miles west of the Neosho River, and Labette Creek, a major tributary of the Neosho, is approximately 2 miles southwest of the facility. The Neosho River is utilized as a source of drinking water, and D&Z obtains its potable water from an intake on the Neosho River about 1.5 miles east and 1 mile north of the OD area. Figure B-9 illustrates the surface water bodies on the facility and within 1,000 feet of the facility.

The terrain in the vicinity of the facility is generally flat or gently rolling, with little elevation change across the property. Land surrounding the facility to the north, south, west, and northwest has been transferred to the Great Plains Development Authority for redevelopment. Most of the transferred land is leased as agricultural land; but the former ammunition plant north and west of the facility is under development as an industrial park. The area within 1,000 feet east of the facility is currently agricultural land. U.S. Highway 400 is to the north, the Neosho River is to the east, a railroad line is to the south, and Labette Creek is to the west (see Figure B-1). A large strip mine operation is present southeast of the facility, as well as several quarries and gravel pits. A power plant is on the Neosho River east of the facility.

Access to the D&Z facility is limited. The 1800, 1900, and 2700 Areas are currently fenced and gated, and the hazardous waste storage units are locked. The OD grounds are fenced and locked, and access to the area is controlled. The production buildings in the 1000 and 1100 Areas are locked when not in use.

The climate in the area is temperate and continental, typical of North America, with an annual average temperature range of 46 to 65 degrees Fahrenheit (°F). The historical temperature extremes are -13 °F in January and 107 °F in July. The annual mean precipitation is 37 inches. The annual mean snowfall is 20 inches. The prevailing winds are from the south and average 10 miles/hour. Figure B-10 shows a wind rose conveying data regarding wind direction and velocity over time. The data were compiled at Parsons Tri-City Airport National Weather Service Station, Parsons, Kansas. The Parsons Station is approximately 12 miles west of Parsons on similar terrain, and the data are deemed representative of the D&Z facility.

No wells are utilized for potable water or irrigation within the boundaries of the facility. One groundwater withdrawal well is within 1 mile of the facility boundary, approximately 1 mile southwest of the D&Z facility. This well is not known to be utilized for potable water. No injection wells are within 1,000 feet of the facility. Multiple monitoring wells are within the facility and within 1,000 feet of the facility. Locations of the monitoring wells are shown on Figure B-11.

Figure B-9 identifies the current buildings and structures within 1000 feet of the facility. Solid Waste Management Units (SWMU) are not identified on the figure.

Regionally, the lower Paleozoic aquifer system consists of two carbonate aquifers separated over a large area by a confining layer (Macfarlane, P.A. and L.R. Hathaway. 1987. The hydrogeology and chemical quality of ground waters from the lower Paleozoic aquifers in the Tri-state region of Kansas, Missouri, and Oklahoma. Kansas Geological Survey, Ground-water Series 9. 37 pages). The upper aquifer is composed of undifferentiated Mississippian carbonates, and the lower aquifer consists of rocks of the Cambrian-Ordovician System. The confining layer is characterized by rocks of the Precambrian and Pennsylvanian systems. Although the Pennsylvanian units are considered to be confining regionally, these rocks will produce water in shallow bores screened in low yielding sandstone and limestone aquifers.

B-3 Facility Location Information [40 CFR §270.14(b)(11)(i) and (ii) and 264.18(a)]

B-3a Seismic Standard [40 CFR §270.14(b)(11)(i), (ii) and 264.18(a)]

Consistent with the criteria presented in 40 CFR §270.14(b)(11)(i) and (ii) and 40 CFR §264.18(a), D&Z is an existing facility; thus, the seismic design standards are not applicable. In addition, D&Z is within Labette County, Kansas. Labette County is not listed in Appendix VI of 40 CFR Part 264; facilities within unlisted counties are not required to meet the seismic standard.

B-3b Flood Plain Requirements [40 CFR §270.14(b)(11)(iii), (iv) and 264.18(b)]

D&Z lies within the drainage basin of the Neosho River, a tributary of the Arkansas River. A Flood Hazard Boundary Map prepared by the U.S. Department of Housing and Urban Development was utilized to delineate the approximate 100-year floodplain for watercourses in Labette County, Kansas. The OD, storage units, and production buildings do not lie within the boundaries of the 100-year floodplain (Figure B-8). No barriers are necessary for flood protection for the units. Naturally occurring intermittent watercourses provide adequate drainage for the OD and storage units. Storm drainage for the facility is depicted on Figure B-7.

Demonstration of Compliance

Not applicable.

Flood Proofing and Flood Protection Measures

Not applicable.

Flood Plan

Not applicable.

Waiver for Land Storage and Disposal Facilities

Not applicable.

Plan for Future Compliance

Not applicable.

B-4 Traffic Patterns [40 CFR §270.14(b)(10)]

Traffic within the boundaries of D&Z is restricted to D&Z employees, contractors, and authorized visitor vehicles only. Major roads are 18 feet wide, with a macadam base. These roads are constructed to support vehicles that meet the legal 9-ton, single-axle load limits for State and Federal highways.

Only major roads within the facility are utilized for transport of hazardous waste. Stop signs are employed at all major intersections. All explosive-laden transport vehicles have the right-of-way. Figure B-12 depicts the transportation routes used to move hazardous wastes from off site, among production lines, storage areas, production buildings, and treatment units within the facility's boundaries. Figure B-12 also depicts direction of travel and locations of traffic signs.

Trego Road supports the highest volume of traffic transporting hazardous wastes, as all vehicles travel on this road to move materials from each production area to either the storage areas or the thermal treatment areas. Scott Road is moderately traveled, primarily by passenger vehicles and trucks during the morning or evening rush hours (i.e., when the largest number of employees are traveling to, from, or between various units on the facility); Scott Road is only lightly traveled during the remainder of the day. Hazardous wastes are generally not transported during the morning or evening rush hours. See Table B-3 for a listing of waste routing within the facility from point of origin to point of storage.

FIGURES

FIGURE B-1 FACILITY MAP

FIGURE B-2 D&Z KANSAS LLC ORGANIZATIONAL CHART

FIGURE B-3 HAZARDOUS WASTE MANAGEMENT FACILITIES LOCATION MAP

FIGURE B-4 1800 AREA LAYOUT

FIGURE B-5 1900 AREA LAYOUT

FIGURE B-6 2700 AREA LAYOUT

FIGURE B-7 TOPOGRAPHIC AND STORM DRAINAGE MAP

FIGURE B-8 100 YEAR FLOOD PLAN

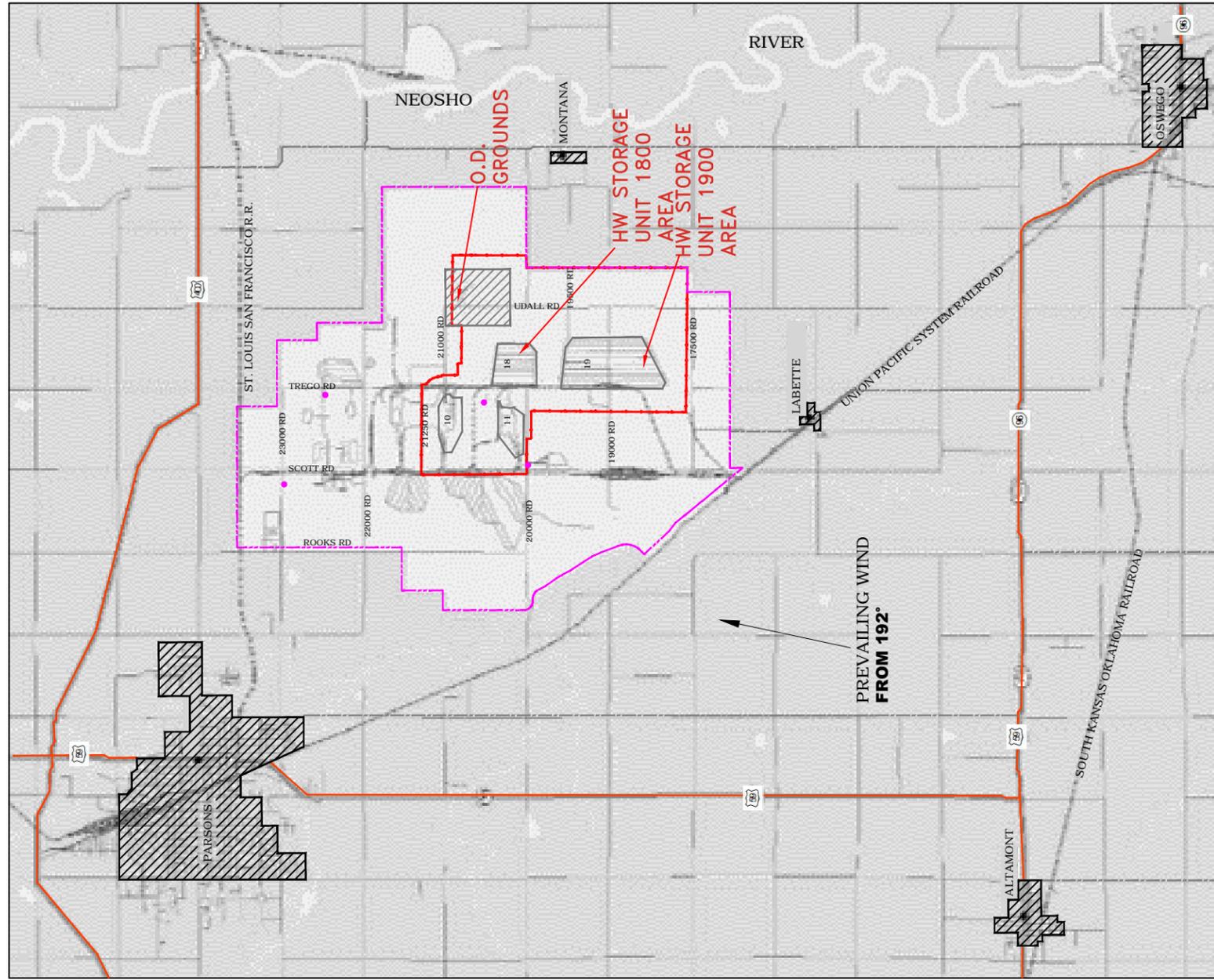
FIGURE B-9 SURFACE WATER BODIES AND ADJACENT STRUCTURES

FIGURE B-10 WINDROSE

FIGURE B-11 MONITORING WELL LOCATIONS

FIGURE B-12 HAZARDOUS WASTE TRANSPORTATION ROUTES

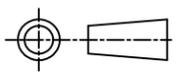
NEOSHO COUNTY



- LEGEND**
- D&Z BOUNDARY
 - - - GPDA & KDWP BOUNDARY
 - WATER TOWER
 - U.S. & STATE HIGHWAY (2-LANE PAVED)
 - - - COUNTY ROAD (2-LANE ROAD PAVED)

NOTES:

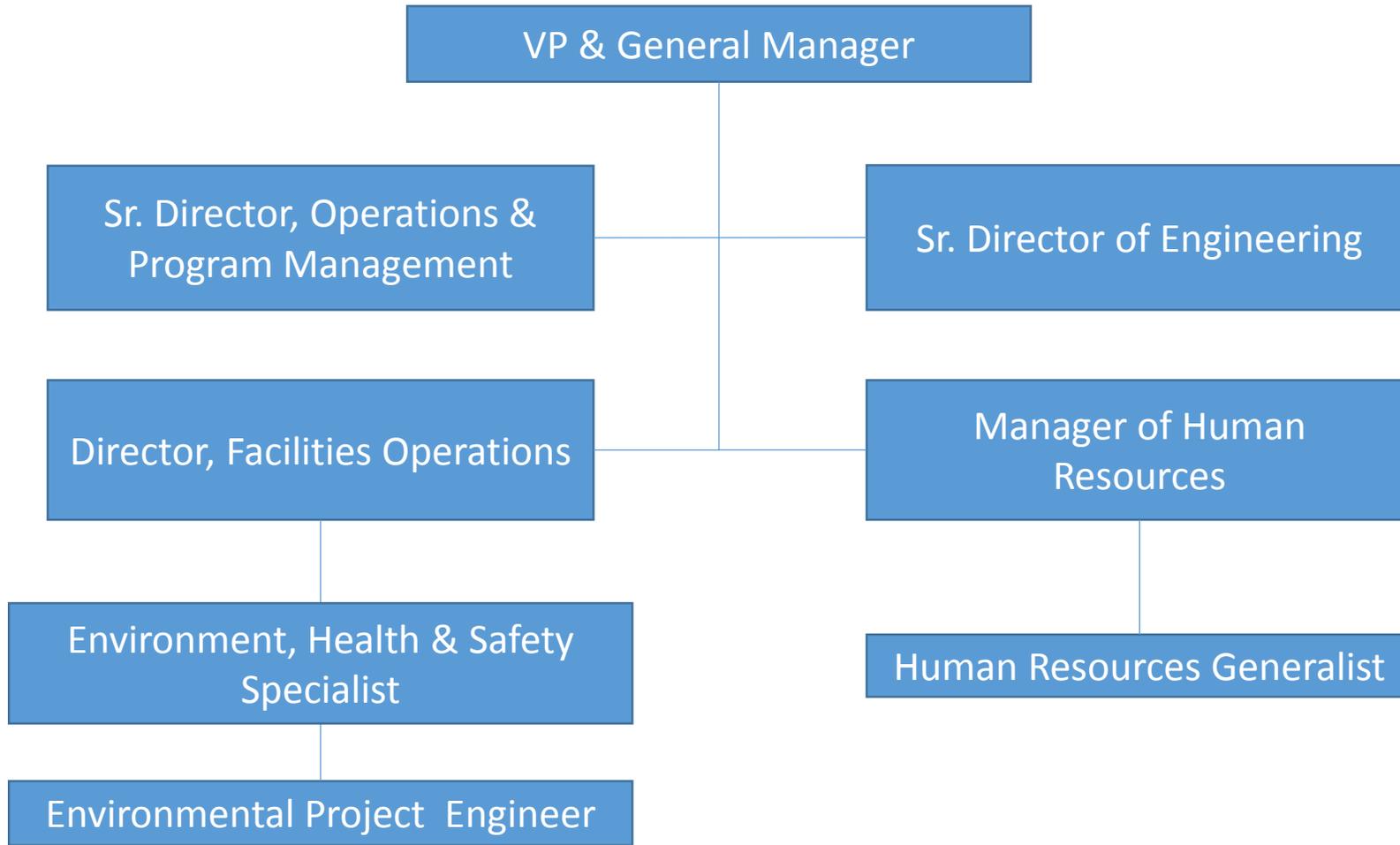
- 10-1000 AREA PRODUCTION
- 11-1100 AREA PRODUCTION
- 18 & 19- EXPLOSIVE STORAGE
- HW STORAGE UNITS 1800 AREA 1816
- HW STORAGE UNITS 1900 AREA 1934, 1935, 1936, 1942, 1967, 1969, 1970 AND 1979
- HW STORAGE UNITS 2700 AREA 2707, 2708 AND 2709

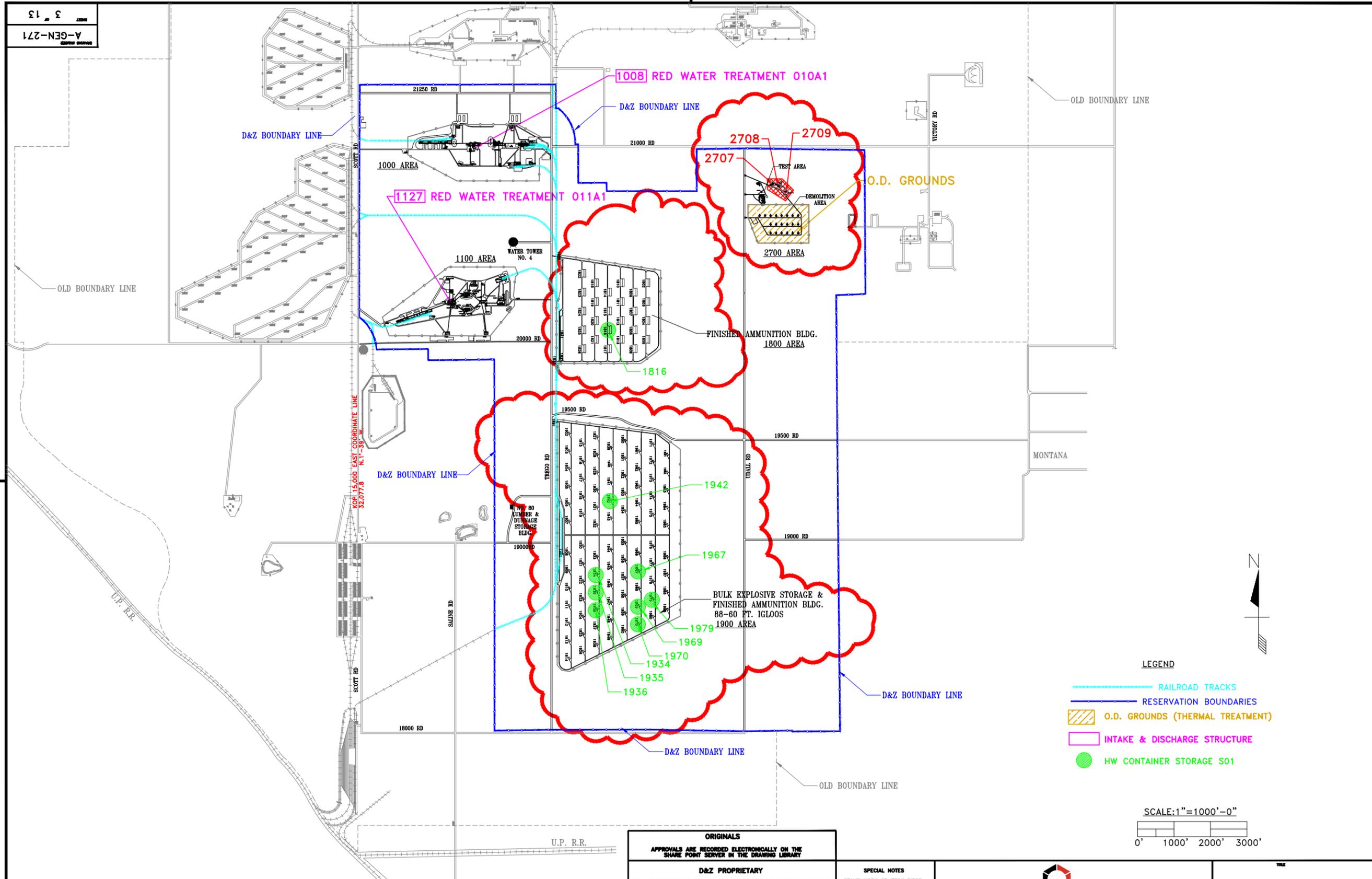


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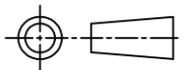
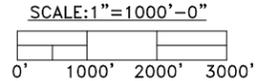
<p>ORIGINALS</p> <p>APPROVALS ARE RECORDED ELECTRONICALLY ON THE SHARE POINT SERVER IN THE DRAWING LIBRARY</p>		<p>DEPT555 RDB 5/29/13 ADDED NEW HW STORAGE UNITS IN 1800 AND 1900</p>	
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<p>Day & Zimmermann We do what we say® DAY & ZIMMERMANN KANSAS LLC 23102 RUSH ROAD PARSONS, KANSAS 67357</p>		<p>FACILITY MAP FIGURE B-1</p>	
<p>GENERAL NOTE</p>		<p>SCALE NOTED</p>	
<p>F 1 12</p>		<p>A-GEN-271 4</p>	

Figure B-2
Day & Zimmermann Kansas LLC Organizational Chart





- LEGEND**
- RAILROAD TRACKS
 - RESERVATION BOUNDARIES
 - O.D. GROUNDS (THERMAL TREATMENT)
 - INTAKE & DISCHARGE STRUCTURE
 - HW CONTAINER STORAGE S01



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APPLICABLE TOLERANCES UNLESS OTHERWISE NOTED.

COMMON FRACTIONS

#1/16	2.032
ONE DECIMAL	2.540
TWO DECIMALS	2.015
THREE DECIMALS	2.005
ANGLE	1/4°
SURFACE FINISH	15

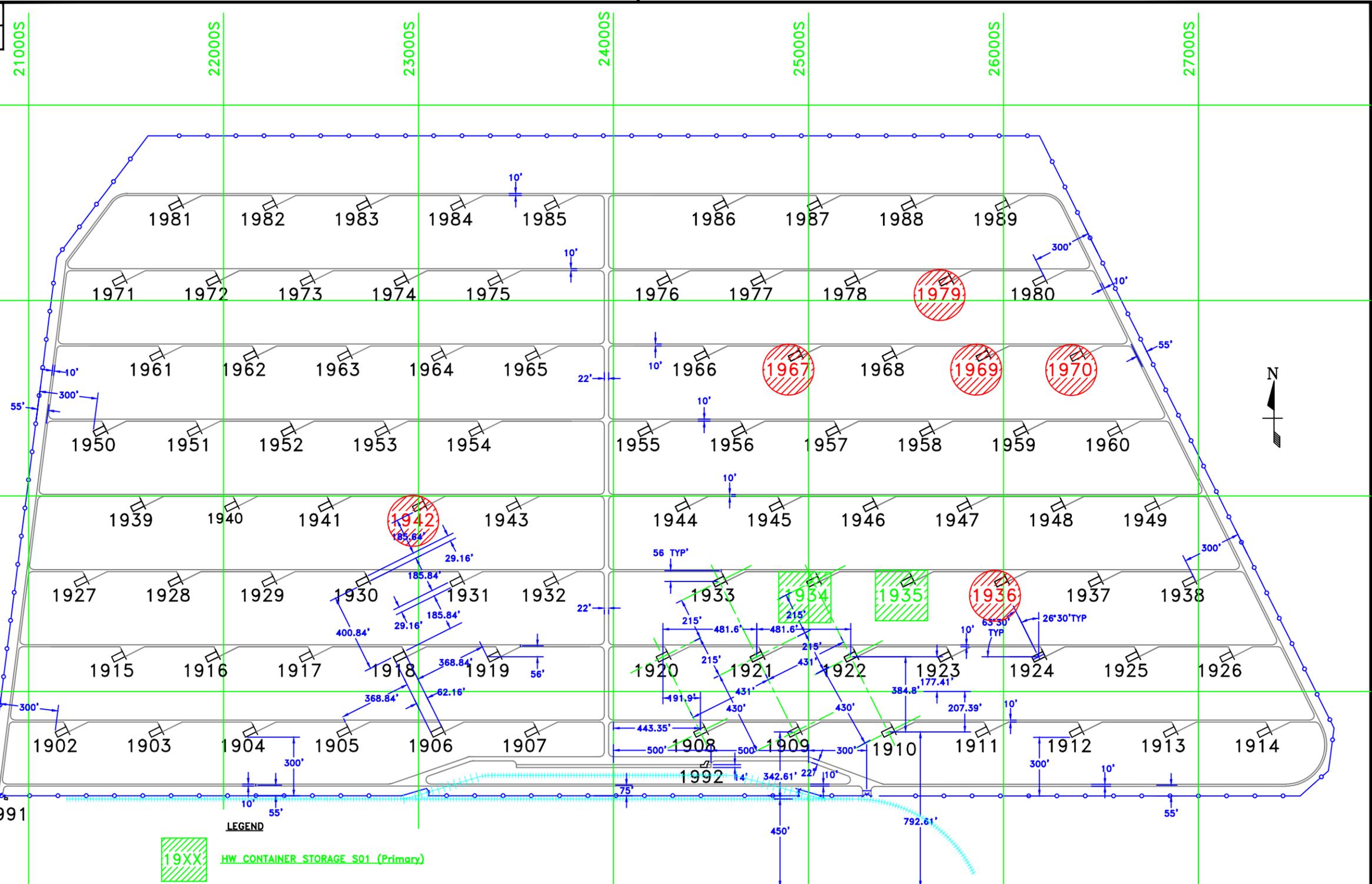
Day & Zimmermann
We do what we say.
DAY & ZIMMERMANN KANSAS LLC
23102 RUSH ROAD
PARSONS, KANSAS 67357

HAZARDOUS WASTE MANAGEMENT FACILITIES LOCATION MAP FIGURE B-3

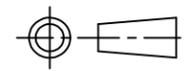
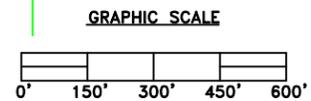
AREA GENERAL BLDG. N/A SCALE NOTED

REV	DATE	BY	APP'D
F	3 13	A-GEN-271	4

5 13
A-GEN-271



LEGEND
19XX HW_CONTAINER_STORAGE_S01 (Primary)
19XX HW_CONTAINER_STORAGE_S01 (Expansion)
 ---○--- FENCELINE



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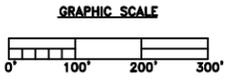
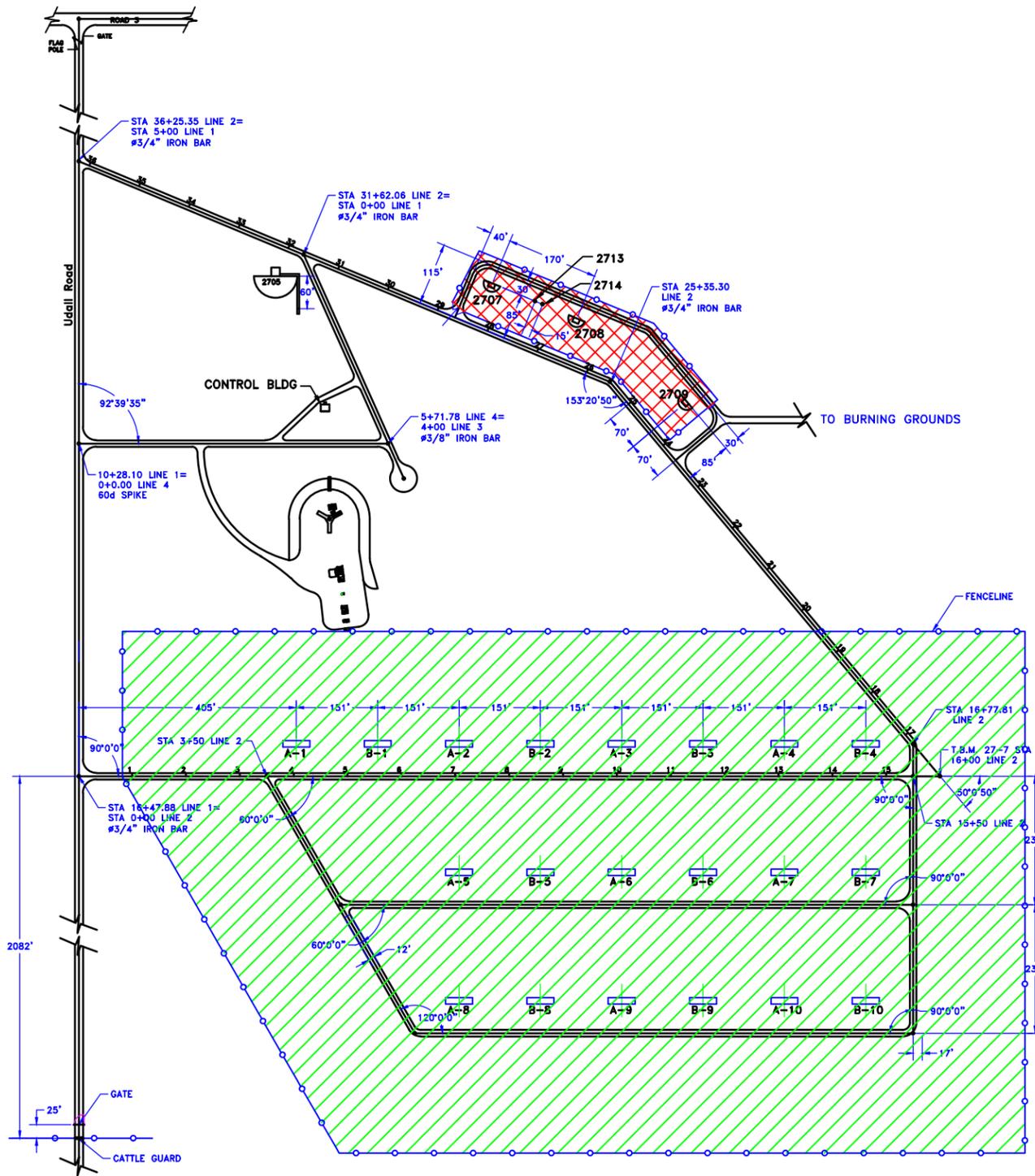
SPECIAL NOTES
 STAMP MARK OR ETCH PIECE MARK ON EACH PART.
 BREAK ALL SHARP EDGES UNLESS OTHERWISE NOTED.
 APPLICABLE TOLERANCES UNLESS OTHERWISE NOTED.

COMMON FRACTIONS 1/16
 ONE DECIMAL 1/32
 TWO DECIMALS 1/64
 THREE DECIMALS 1/128
 ANGLE 1/4°
 SURFACE FINISH

Day & Zimmermann
We do what we say
 DAY & ZIMMERMANN KANSAS LLC
 23102 RUSH ROAD
 PARSONS, KANSAS 67357

D&Z
 HW MANAGEMENT FACILITIES
 HW STORAGE
 1900 AREA
 FIGURE B-5

DATE	REV
1900	4
5 13	A-GEN-271



- LEGEND**
- HW DRUM & BOX STORAGE S01
 - HW TREATMENT X01
 - FENCELINE

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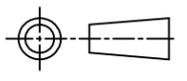
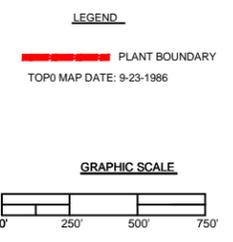
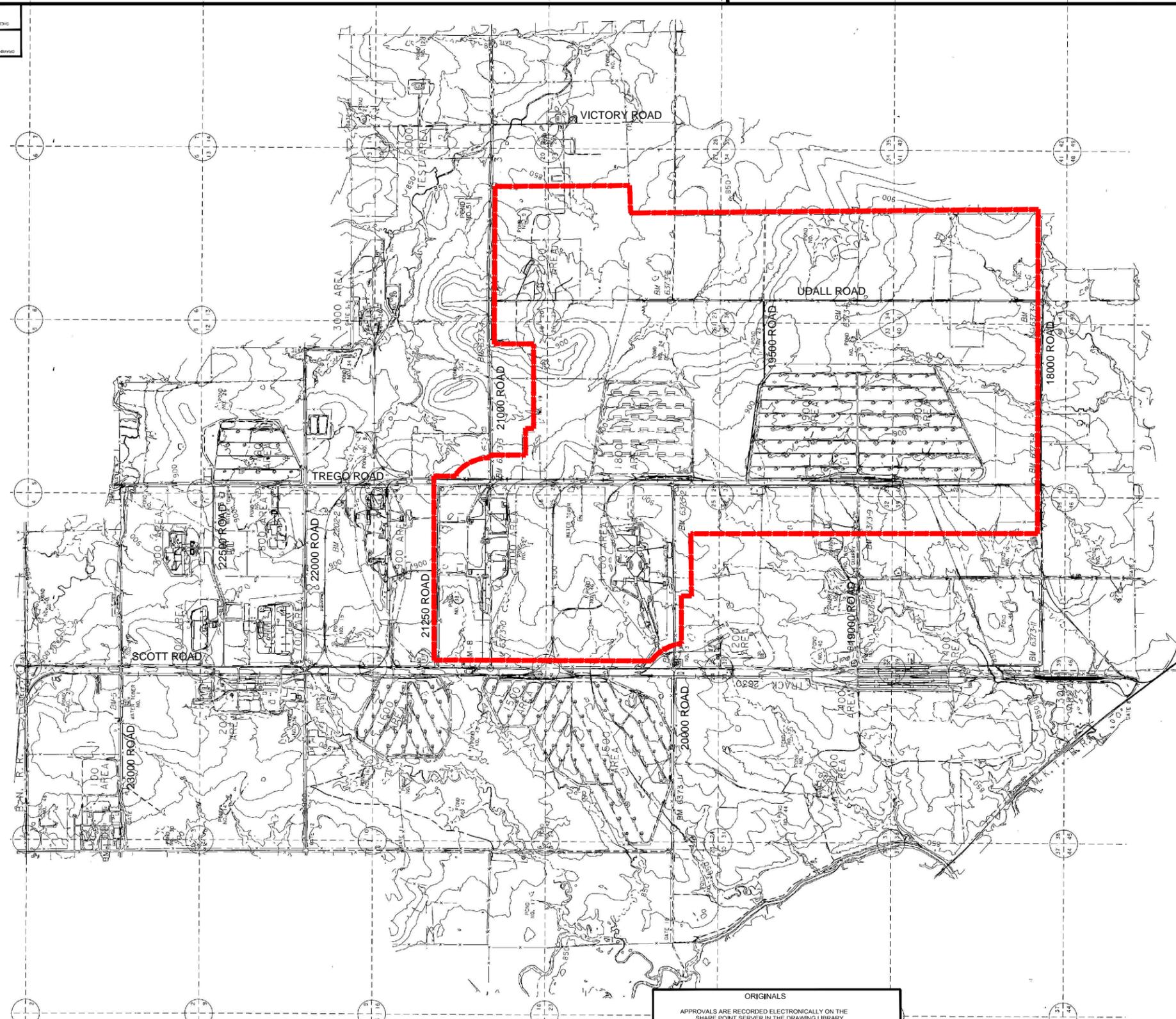
STAMP MARK OR ETCH PIECE MARK ON EACH PART.
BREAK ALL SHARP EDGES UNLESS OTHERWISE NOTED.
APPLICABLE TOLERANCES UNLESS OTHERWISE NOTED.

COMMON FRACTIONS 1/16
ONE DECIMAL 0.000
TWO DECIMALS 0.005
THREE DECIMALS 0.005
ANGLE 1/4°
SURFACE FINISH 1/8



DAY & ZIMMERMANN KANSAS LLC
23018 ROOKS ROAD
PARSONS, KANSAS 67357

D&Z 2700 AREA LAYOUT FIGURE B-6			
REV	DATE	BY	NOTED
F	3 6	A-GEN-274	0



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SPECIAL NOTES

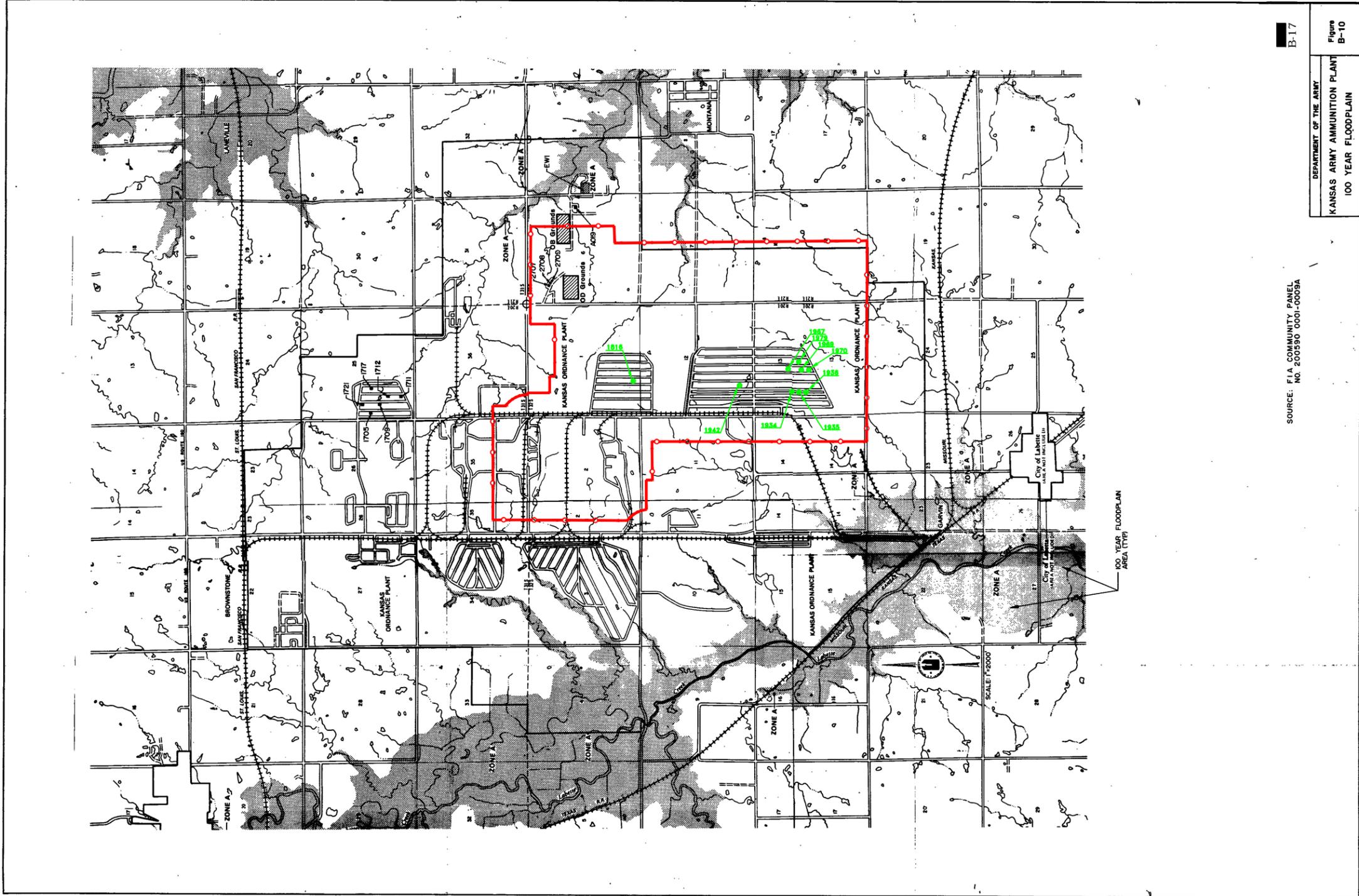
STAMP MARK OR ETCH PIECE MARK ON EACH PART.
BREAK ALL SHARP EDGES UNLESS OTHERWISE NOTED.
APPLICABLE TOLERANCES UNLESS OTHERWISE NOTED.

COMMON FRACTIONS ±1/16
ONE DECIMAL ±.030
TWO DECIMALS ±.015
THREE DECIMALS ±.005
ANGLE 1°/0'
SURFACE FINISH ✓

DAY & ZIMMERMANN KANSAS LLC
23102 RUSH ROAD
PARSONS, KANSAS 67357

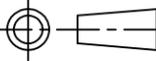
**GENERAL LAYOUT
TOPOGRAPHIC
AND STORM DRAINAGE MAP
FIGURE B-7**

AREA	GEN	BLOC.	SCALE	NOTED
SHEET	8	OF	13	DRAWING NUMBER
				A-GEN-271
REV				4



DEPARTMENT OF THE ARMY
KANSAS ARMY AMMUNITION PLANT
100 YEAR FLOODPLAN

SOURCE: FIA COMMUNITY PANEL
NO. 200590 0001-0009A

-  PLANT BOUNDARY
-  NW CONTAINER STORAGE SO1
-  DRAWN PER ANSI Y14.5M-1982
ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE NOTED

ORIGINALS
APPROVALS ARE RECORDED ELECTRONICALLY ON THE SHARE POINT SERVER IN THE DRAWING LIBRARY

D&Z PROPRIETARY
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THIS DOCUMENT CONTAINS INFORMATION SUBJECT TO THE U.S. ARMS EXPORT CONTROL ACT, 22 U.S.C. 2791 ET SEQ., AND INTERNATIONAL TRAFFIC IN ARMS REGULATIONS, 22 CFR PARTS 120-130, AND MAY NOT BE EXPORTED, DISCLOSED, RELEASED, DISTRIBUTED OR RETRANSFERRED TO A FOREIGN PERSON WHETHER IN THE UNITED STATES OR ABROAD, WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF THE U.S. DEPARTMENT OF STATE.

SPECIAL NOTES
STAMP MARK OR ETCH PIECE MARK ON EACH PART.
BREAK ALL SHARP EDGES UNLESS OTHERWISE NOTED.
APPLICABLE TOLERANCES UNLESS OTHERWISE NOTED.

COMMON FRACTIONS	1/16
ONE DECIMAL	±.005
TWO DECIMALS	±.015
THREE DECIMALS	±.005
ANGLE	1/4°
SURFACE FINISH	1/8

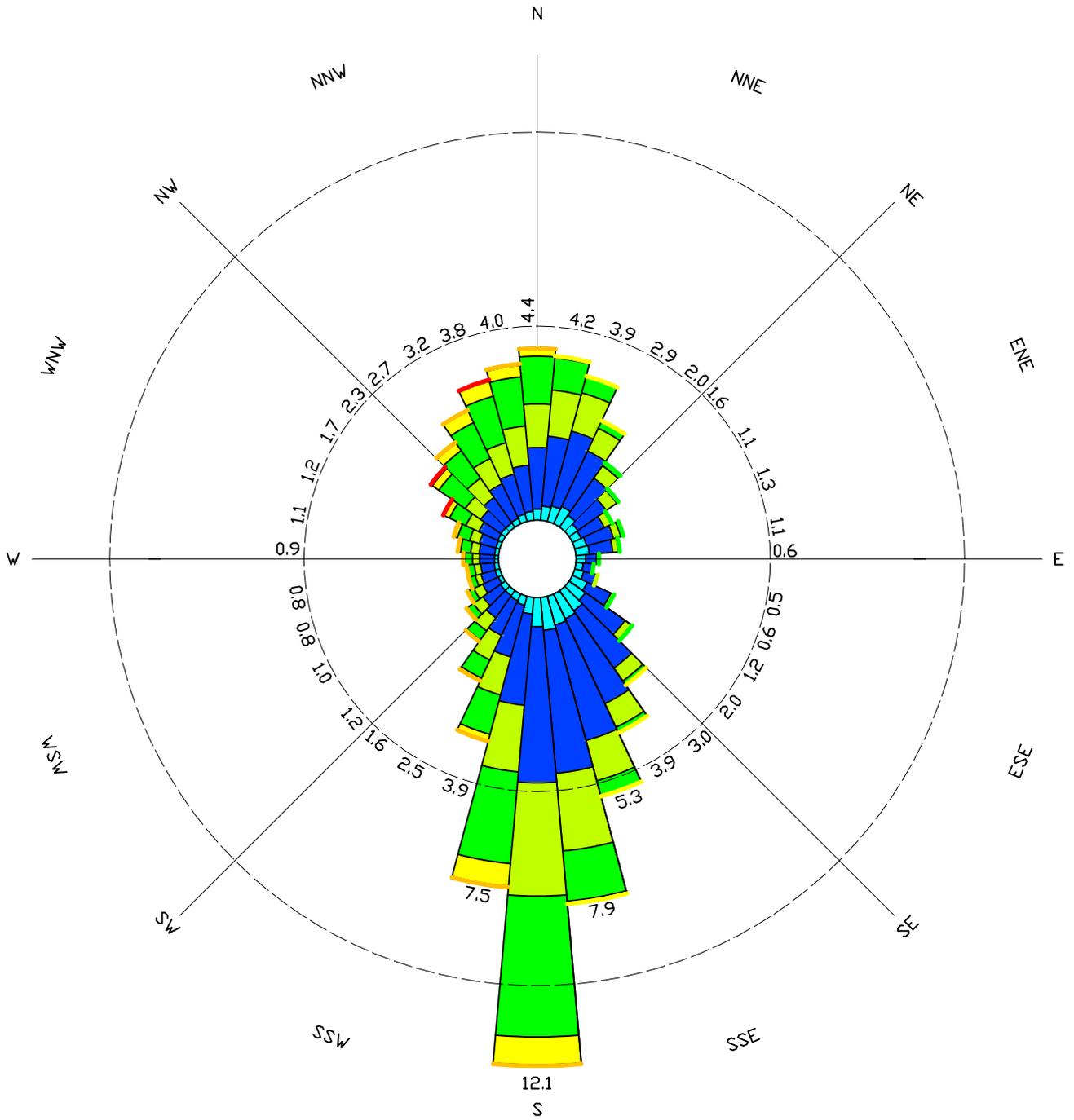


Day & Zimmermann
We do what we say

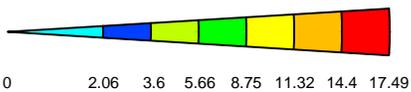
DAY & ZIMMERMANN KANSAS LLC
23102 RUSH ROAD
PARSONS, KANSAS 67357

100 YEAR FLOOD PLAN
FIGURE B-8

AREA GENERAL NO.	SCALE NOTED
F 9 13	A-GEN-271 4



Legend



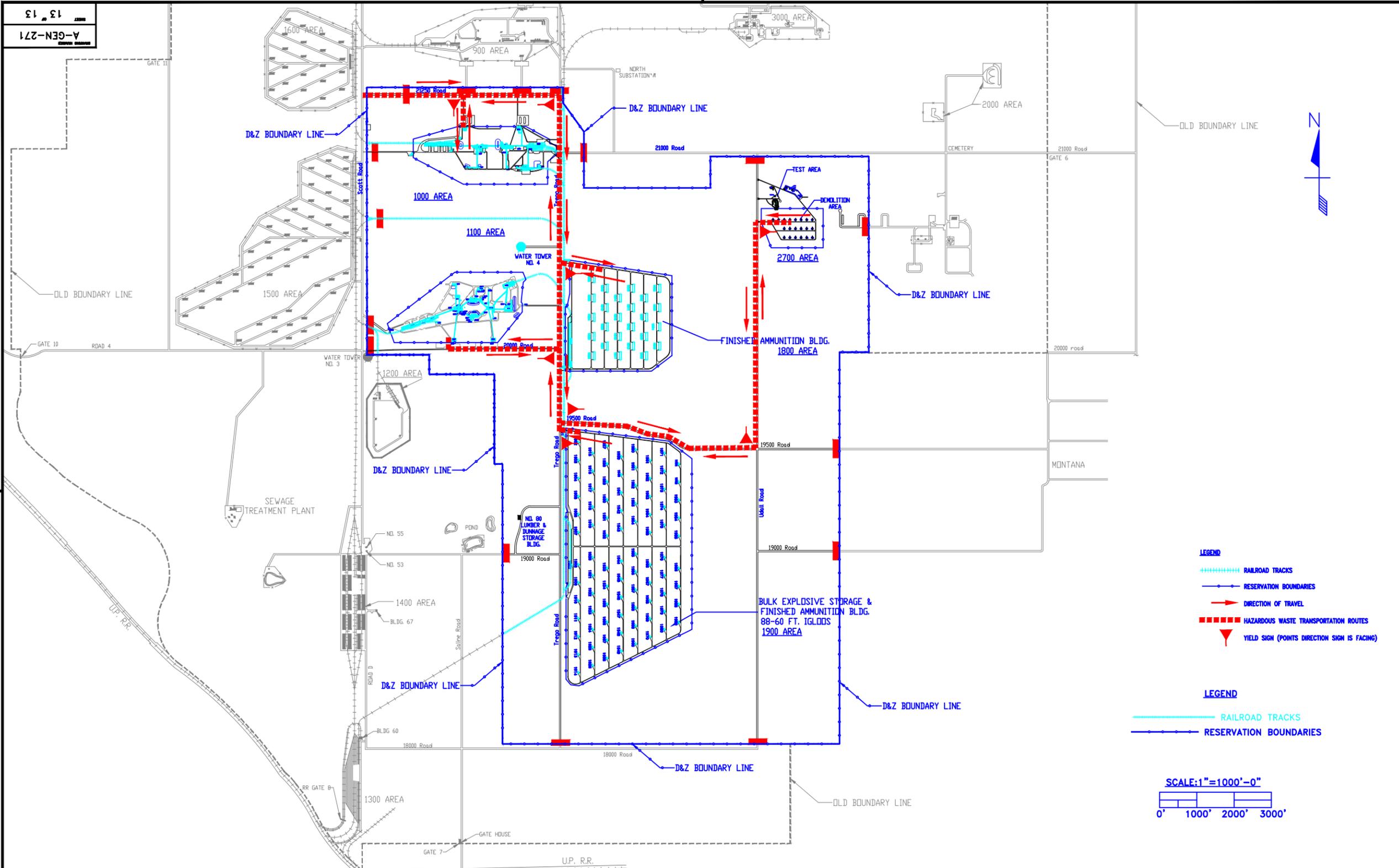
Wind Speed (meter/second)

Calms excluded.
Rings drawn at 5% intervals.
Winds flow is TO the directions shown.
No observations were missing.

Day & Zimmermann Kansas LLC
23102 Rush Road
Parsons, Kansas

Figure B-10
Windrose - Meteorological Years 2004 - 2014





- LEGEND**
- +++++ RAILROAD TRACKS
 - RESERVATION BOUNDARIES
 - DIRECTION OF TRAVEL
 - HAZARDOUS WASTE TRANSPORTATION ROUTES
 - ▼ YIELD SIGN (POINTS DIRECTION SIGN IS FACING)

- LEGEND**
- RAILROAD TRACKS
 - RESERVATION BOUNDARIES

SCALE: 1" = 1000'-0"



<p>D&Z PROPRIETARY</p> <p>THE INFORMATION CONTAINED IN OR DISCLOSED BY THIS DRAWING IS CONSIDERED PROPRIETARY BY DAY & ZIMMERMANN, INC. THIS DRAWING AND THE INFORMATION CONTAINED OR DISCLOSED HEREIN SHALL NOT BE USED, COPIED OR REPRODUCED IN WHOLE OR IN PART, NOR SHALL THE CONTENTS BE REVEALED TO ANY PERSON (WITH THE EXCEPTION OF THE U.S. GOVERNMENT) UNLESS WRITTEN PERMISSION IS OBTAINED FROM DAY & ZIMMERMANN, INC. DRAWING APPROVAL CONSTITUTES VERIFICATION OF DESIGN.</p> <p>RE-EXPORT OR DIVERSION CONTRARY TO THE PROVISIONS OF THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (22 CFR 120-130) IS STRICTLY PROHIBITED.</p>	<p>SPECIAL NOTES</p> <p>STAMP MARK OR ETCH PIECE MARK ON EACH PART. BREAK ALL SHARP EDGES UNLESS OTHERWISE NOTED. APPLICABLE TOLERANCES UNLESS OTHERWISE NOTED.</p> <table border="0"> <tr><td>COMMON FRACTIONS</td><td>±1/16</td></tr> <tr><td>ONE DECIMAL</td><td>±.005</td></tr> <tr><td>TWO DECIMALS</td><td>±.015</td></tr> <tr><td>THREE DECIMALS</td><td>±.005</td></tr> <tr><td>ANGLE</td><td>1°-4'</td></tr> <tr><td>SURFACE FINISH</td><td>10'</td></tr> </table>	COMMON FRACTIONS	±1/16	ONE DECIMAL	±.005	TWO DECIMALS	±.015	THREE DECIMALS	±.005	ANGLE	1°-4'	SURFACE FINISH	10'	 <p>DAY & ZIMMERMANN KANSAS LLC 23018 ROOKS ROAD PARSONS, KANSAS 67357</p>	<p style="text-align: center;">HAZARDOUS WASTE TRANSPORTATION ROUTES</p> <p style="text-align: center;">FIGURE B-12</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>AREA</td> <td>2700</td> <td>DATE</td> <td>SCALE</td> <td>NOTED</td> </tr> <tr> <td>REV</td> <td>13</td> <td>OF</td> <td>13</td> <td>REV</td> </tr> <tr> <td colspan="2">F</td> <td colspan="2">A-GEN-271</td> <td>2</td> </tr> </table>	AREA	2700	DATE	SCALE	NOTED	REV	13	OF	13	REV	F		A-GEN-271		2
COMMON FRACTIONS	±1/16																													
ONE DECIMAL	±.005																													
TWO DECIMALS	±.015																													
THREE DECIMALS	±.005																													
ANGLE	1°-4'																													
SURFACE FINISH	10'																													
AREA	2700	DATE	SCALE	NOTED																										
REV	13	OF	13	REV																										
F		A-GEN-271		2																										

TABLES

TABLE B-1

D&Z AREAS OF OPERATION

Designated Area	Purpose
1000	Munitions Production
1100	Munitions Production
1800	Finished Ammunition, Storage, Hazardous Waste Storage
1900	Finished Ammunition, Bulk Storage, Hazardous Waste Storage
2700	Thermal Treatment Areas (OD), Hazardous Waste Storage, Test Facility

TABLE B-2

**ESTIMATED MAXIMUM TYPE AND AMOUNT OF WASTES
THERMALLY TREATED AT OD GROUNDS**

	DODIC	HAZARD CLASS/DIVISION CG	UNO SERIAL #	CIIC	N.E.W./QDLB.
CTG, 60MM, HE, M720A1	--	1.2E	--	--	0.8902
CTG, 60MM, HE, M768	BA17	1.2.2E	321	3	0.8825
FIN ASSEMBLY, M27 F/60MM (INERT)	--	INERT	--	--	0
CTG, 8LMM HE M821A1	C868	1.1E	6	4	2.342
CTG, 81MM, HE M821A2	--	1.1E	--	--	2.3536
CTG, 81MM HE M889A1	C869	1.1E	6	4	2.3536
CTG, 81MM HE M889	C869	1.2.1E	321	3	2.0693
FIN ASSEMBLY, M24 F/81MM	--	INERT	--	--	0
CARTRIDGE, IGNITION M299	C990	1.4 G	325	--	0.017
CARTRIDGE, IGNITION M702	B617	1.4 G	320	--	0.00767
FUZE, M734A1	NA23	1.1.1 D	367	--	0.018829
FUZE, M774	--	1.4 D	--	--	0.0005
FUZE, M783	NA19	1.4S	367	4	.018830
FUZE, M935	N342	1.2.2D (1.2 B)	409	4	0.0302
FUZE, M935	N342	1.4D	409	4	0.0021
FUZE, M223 F/M42/46 GRENADES	--	1.4 D	--	--	0.00019
FUZE, M774 FOR LOSMP	--	1.4 D	--	--	0.0005
S&A, LOSMP, XM-1069	--	1.4 D	--	--	0.000584
CHARGE, PROPELLING, M235	--	1.3 C	272	--	0.01657
CHARGE, PROPELLING, M220	C044	1.3 C	242	--	0.086717
GRENADE, M42 HE	--	1.1 D	--	--	0.6652
GRENADE, M46 HE	--	1.1 D	--	--	0.068
PROJECTILE, 155MM, HE, M795 (OXSCAN)	--	1.1 D	--	--	24.1
PROJECTILE, 155MM, HE, M795 (TNT)	D529	1.1D	168	7	24.1000
SEPARTOR ASSEMBLY	--	1.4 S	--	--	0.017
TRANSFER LINE, EJECTOR YELLOW	--	1.4 S	--	--	0.000381
TRANSFER LINE, EJECTOR BLACK	--	1.4 S	--	--	0.000381
TRANSFER LINE, EJECTOR BLUE	--	1.4 S	--	--	0.000381

	DODIC	HAZARD CLASS/DIVISION CG	UNO SERIAL #	CIIC	N.E.W./QDLB.
TRANSFER LINE, EJECTOR GREEN	--	1.4 S	--	--	0.000381
TRANSFER LINE, EJECTOR RED	--	1.4 S	--	--	0.000381
TRANSFER LINE, EJECTOR WHITE	--	1.4 S	--	--	0.000381
EJECTOR ASSEMBLY, SUBMUNITION	--	1.4 S	--	--	0.01676
MODULE ASSEMBLY, RH, EXPLOSIVE	--	1.1 D	--	--	27.01566
CHARGE, DEMOLITION, SHAPE 40 LB. M3A1	M421	1.1D	0048	2	30.0000
CHARGE, DEMOLITION, SHAPE 15 LB M2A4	M420	1.1D	48	2	15.0000
RELAY, M7, LOADING ASSEMBLY f/MT-238 Fuze	--	1.4 B	--	--	0.0002
S&A, LOSMP, XM-1069	--	1.4 D	--	--	0.000584
WARHEAD BONDING ASSEMBLY DZK1320-0125	--	1.1 D	--	--	15
WARHEAD, GUIDED MISSILE, HE (9256709-SR-STD)	--	1.1 D	--	--	6.5
MAXIMUM TOTAL DETONATIONS =					50,000 pounds
(assumes a maximum of 10 – 500 pound charges/day for 100 days each year)					

EXPLOSIVES (Plan to sell)
Black Powder
Comp A w/calcium stearate
Comp A-3
Comp A-3 Aluminized
Comp A-5
Comp B
Comp B w/Calcium Silicate
Comp B4 w/aluminum powder
Comp B4, type 1
Comp IMX-101
Comp IMX-104
Cyclotol
Explosive CXM-3
Explosive CXM-9, coated
HNS
LX-14-0 (HMX/Resin)
Octol
OSX-1
OSX-3
OSX-CAN
PAX-21
PAX-21

EXPLOSIVES (Plan to sell)
PAX-3
PAX-46
PBXN-5
PBXN-9
PBXW-11
PBXW-14
PETN, Polyethylene Coated
RDX, Type 1 or 2
RDX, TYPE 2, CLASS 3
TETRYL
TNT, Type 1 * USE FOR DONOR CHARGE - DEMO GRDS
TNT/OCTOL Mix

Notes:

DODIC = Department of Defense Identification Code
 CG = Compatibility Group
 CIIC = Controlled Inventory Item Code
 UNO = United Nations Organization Serial Number
 N.E.W. = Net Explosive Weight
 N.E.W./QDLB = Net Explosive Weight for Quantity Distance Purposes in Pounds

TABLE B-3

**HAZARDOUS WASTE TRANSPORT DATA
AND TRAFFIC VOLUMES FROM GENERATION POINT TO STORAGE AREAS**

The following traffic volumes will be transporting hazardous wastes during mobilization operations:

Point of Generation				Maximum Weight per Trip
1.	1000 Area	=	14 trips per month	3,000 pounds
2.	1100 Area	=	14 trips per month	3,000 pounds

Hazardous waste transport data and traffic volumes for reduced production rates are as follows:

Point of Generation				Maximum Weight per Trip
1.	1000 Area	=	1 trip every 6 months	3,000 pounds
2.	1100 Area	=	4 trips per month	3,000 pounds

Vehicles used for transportation of hazardous waste include the following:

Loads up to 50 pounds:

Pickup trucks:

½ ton capacity

96 cubic foot capacity

Loads greater than 50 pounds:

Truck tractor with carryall semitrailer:

14 ton payload (28,000 pounds maximum)

1,000 cubic foot capacity

Reference:

Macfarlane, P.A. and L.R. Hathaway. 1987. The hydrogeology and chemical quality of ground waters from the lower Paleozoic aquifers in the Tri-state region of Kansas, Missouri, and Oklahoma. Kansas Geological Survey, Ground-water Series 9. 37 pages.

APPENDIX B-1

PROPERTY LEGAL DESCRIPTION AND MAP

DZI 1 LEGAL DESCRIPTION

DZI PARCEL 1

A PORTION OF THE FORMER KANSAS ARMY AMMUNITIONS PLANT PROPERTY BEING A PARCEL OF LAND LOCATED IN SECTIONS 35 AND 36 OF TOWNSHIP 31 SOUTH, RANGE 20 EAST AND SECTIONS 1 AND 2 OF TOWNSHIP 32 SOUTH, RANGE 20 EAST, 6TH PRINCIPAL MERIDIAN, COUNTY OF LABETTE, STATE OF KANSAS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 2, TOWNSHIP 32 SOUTH, RANGE 20 EAST OF THE SIXTH PRINCIPAL MERIDIAN;

THENCE NORTH 01°42' 13" WEST ALONG THE WEST LINE OF SAID SECTION 2 A DISTANCE OF 3918.82;

THENCE NORTH 88°17'47" EAST A DISTANCE OF 44.55 FEET TO THE **POINT OF BEGINNING** OF THE PARCEL HEREINAFTER DESCRIBED;

THENCE NORTH 01° 42' 26" WEST A DISTANCE OF 1383.06 FEET TO THE NORTH LINE OF SAID SECTION 2;

THENCE NORTH 01° 27' 51" WEST A DISTANCE OF 1565.34 MEET;

THENCE NORTH 01° 41' 46" WEST A DISTANCE OF 237.66 FEET;

THENCE NORTH 88° 10' 39" EAST A DISTANCE OF 5352.69 FEET;

THENCE CONTINUING NORTH 88°10'39" EAST A DISTANCE OF 25.00 MEET;

THENCE SOUTH 01° 40' 39" EAST A DISTANCE OF 4550.25 FEET;

THENCE SOUTH 88°19'21" WEST A DISTANCE OF 25.00 FEET TO A NON-TANGENT CURVE TO THE LEFT;

THENCE NORTHWESTERLY, ALONG SAID CURVE WITH A RADIUS OF 900.00 FEET AND A CHORD BEARING NORTH 46°40'41" WEST A DISTANCE OF 1272.81 FEET, AN ARC LENGTH OF 1413.74 FEET;

THENCE SOUTH 88° 19' 16" WEST A DISTANCE OF 3895.35 FEET TO A CURVE TO THE LEFT;

THENCE SOUTHWESTERLY ALONG SAID CURVE HAVING A RADIUS OF 750.00 FEET, AND A CHORD BEARING SOUTH 64°03'20" WEST A DISTANCE OF 616.45 FEET, AN ARC LENGTH OF 635.27 FEET;

THENCE NORTH 01'42'26" WEST A DISTANCE OF 704.03 FEET TO THE **POINT OF BEGINNING**.

ENCOMPASSING 19,847,678 SQUARE FEET, OR 455.64 ACRES OF LAND, MORE OR LESS.

DZI 2 LEGAL DESCRIPTION

DZI PARCEL 2

A PORTION OF THE FORMER KANSAS ARMY AMMUNITIONS PLANT PROPERTY BEING A PARCEL OF LAND LOCATED IN SECTIONS 1, 2, 11, 12, 13 AND 14 OF TOWNSHIP 32 SOUTH, RANGE 20 EAST, 6TH PRINCIPAL MERIDIAN, COUNTY OF LABETTE, STATE OF KANSAS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SECTION 11, TOWNSHIP 32 SOUTH, RANGE 20 EAST OF THE SIXTH PRINCIPAL MERIDIAN;

THENCE NORTH 87°49'12" EAST ALONG THE SOUTH LINE OF SAID SECTION 11, A DISTANCE OF 3761.04 FEET;

THENCE SOUTH 01°44'32" EAST A DISTANCE OF 2470.32 FEET TO THE **POINT OF BEGINNING** OF THE PARCEL HEREINAFTER DESCRIBED;

THENCE CONTINUING SOUTH 01°44'32" EAST A DISTANCE OF 26.94 FEET;

THENCE NORTH 66° 23' 41" EAST A DISTANCE OF 1166.12 FEET TO THE BEGINNING OF A TANGENT CURVE TO THE LEFT;

THENCE NORTHEASTERLY ALONG SAID CURVE WITH A RADIUS OF 925 FEET AND A CHORD BEARING NORTH 32°21'31" EAST A DISTANCE OF 1035.47 FEET, AN ARC LENGTH OF 1098.98 FEET;

THENCE NORTH 01° 40' 39" WEST A DISTANCE OF 9060.87 FEET;

THENCE SOUTH 88°19'21" WEST A DISTANCE OF 25.00 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT;

THENCE NORTHWESTERLY ALONG SAID CURVE WITH A RADIUS OF 900 FEET AND A CHORD BEARING NORTH 46°40'41" WEST A DISTANCE OF 1272.81 FEET, AN ARC LENGTH OF 1413.74 FEET;

THENCE SOUTH 88° 19' 16" WEST A DISTANCE OF 3895.35 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE LEFT;

THENCE SOUTHWESTERLY ALONG SAID CURVE WITH A RADIUS OF 750 FEET AND A CHORD BEARING SOUTH 64°03'30" WEST A DISTANCE OF 616.43 FEET, AN ARC LENGTH OF 635.25 FEET;

THENCE SOUTH 01° 42' 27" EAST A DISTANCE OF 2465.33 FEET;

THENCE SOUTH 45°28'40" EAST A DISTANCE OF 301.62 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE RIGHT;

THENCE SOUTHEASTERLY ALONG SAID CURVE WITH A RADIUS OF 976.73 FEET AND A CHORD BEARING SOUTH 23°39'17" EAST A DISTANCE OF 726.18 FEET, AN ARC LENGTH OF 744.04 FEET;

THENCE NORTH 87° 40' 07" EAST A DISTANCE OF 1412.69 FEET;

THENCE SOUTH 02° 19' 53" EAST A DISTANCE OF 307.66 FEET;

THENCE NORTH 87° 40' 07" EAST A DISTANCE OF 1814.88 FEET;

THENCE SOUTH 01° 44' 32" EAST A DISTANCE OF 7346.86 FEET TO THE **POINT OF BEGINNING.**

ENCOMPASSING 31,504,807 SQUARE FEET, OR 723.25 ACRES, MORE OR LESS.

DZI 3 LEGAL DESCRIPTION

DZI PARCEL 3

A PORTION OF THE FORMER KANSAS ARMY AMMUNITIONS PLANT PROPERTY BEING A PARCEL OF LAND LOCATED IN SECTION 36 OF TOWNSHIP 31 SOUTH, RANGE 20 EAST AND SECTIONS 1, 12, 13 AND 14 OF TOWNSHIP 32 SOUTH, RANGE 20 EAST AND SECTIONS 6, 7 AND 18 OF TOWNSHIP 32 SOUTH, RANGE 21 EAST, 6TH PRINCIPAL MERIDIAN, COUNTY OF LABETTE, STATE OF KANSAS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF SAID SECTION 11, TOWNSHIP 32 SOUTH, RANGE 20 EAST OF THE SIXTH PRINCIPAL MERIDIAN;

THENCE NORTH 87°49'12" EAST ALONG THE SOUTH LINE OF SAID SECTION 11, A DISTANCE OF 3761.04 FEET;

THENCE SOUTH 01° 44'32" EAST A DISTANCE OF 2551.14 FEET TO THE **POINT OF BEGINNING** OF THE PARCEL HEREINAFTER DESCRIBED;

THENCE NORTH 66° 23' 41" EAST A DISTANCE OF 1186.18 FEET TO THE BEGINNING OF A TANGENT CURVE TO THE LEFT;

THENCE NORTHEASTERLY ALONG SAID CURVE, WITH A RADIUS OF 975.00 FEET AND A CHORD BEARING NORTH 39°35'56" EAST A DISTANCE OF 879.10 FEET, AN ARC LENGTH OF 911.99 FEET;

THENCE NORTH 77°11'52" WEST A DISTANCE OF 7.00 FEET TO A NON-TANGENT CURVE TO THE LEFT;

THENCE NORTHEASTERLY ALONG SAID CURVE, WITH A RADIUS OF 968.00 FEET AND A CHORD BEARING NORTH 05°33'46" EAST A DISTANCE OF 243.99 FEET, AN ARC LENGTH OF 244.64 FEET;

THENCE NORTH 01° 40' 39" WEST A DISTANCE OF 7652.93

FEET; THENCE NORTH 88°19'21" EAST A DISTANCE OF 7.01

FEET; THENCE NORTH 01°40'39" WEST A DISTANCE OF

5301.94 FEET;

THENCE NORTH 88°18' 11" EAST A DISTANCE OF 25.01 FEET TO THE BEGINNING OF A NON-TANGENT CURVE TO THE RIGHT;

THENCE SOUTHEASTERLY ALONG SAID CURVE, WITH A RADIUS OF 1270 FEET AND A CHORD BEARING SOUTH 27°00'26" EAST A DISTANCE OF 1083.71 FEET, AN ARC LENGTH OF 1119.62 FEET;

THENCE NORTH 88°14'42" EAST A DISTANCE OF 79.93 FEET;

THENCE SOUTH 01° 45' 00" EAST A DISTANCE OF 1060.50 FEET;

THENCE NORTH 87° 42' 31" ' EAST A DISTANCE OF 777.22 FEET;

THENCE SOUTH 02° 22' 31" EAST A DISTANCE OF 234.06 FEET;

THENCE NORTH 88° 15' 00" ' EAST A DISTANCE OF 2471.67 FEET;

THENCE NORTH 01° 54' 54" ' WEST A DISTANCE OF 1152.20 FEET;

THENCE NORTH 87° 28' 13" ' EAST A DISTANCE OF 1326.03 FEET;

THENCE NORTH 89° 01' 28" ' EAST A DISTANCE OF 3280.51 FEET;

THENCE SOUTH 02° 05' 41" EAST A DISTANCE OF 3939.53 FEET;

THENCE SOUTH 85°54'19" WEST A DISTANCE OF 801.66 FEET TO THE EAST LINE OF THE WEST HALF OF SECTION 6;

THENCE SOUTH 02°05'41" EAST, ALONG SAID EAST LINE, A DISTANCE OF 1301.11 FEET TO THE SOUTH QUARTER CORNER OF SAID SECTION 6;

THENCE SOUTH 02° 13' 34" EAST A DISTANCE OF 5326.36 FEET TO THE NORTH QUARTER CORNER OF SECTION 18, TOWNSHIP 32 SOUTH, RANGE 21 EAST;

THENCE SOUTH 02° 17'13" EAST A DISTANCE OF 5310.75 FEET TO THE SOUTH ONE QUARTER CORNER OF SAID SECTION 18;

THENCE SOUTH 88° 00' 21" WEST, ALONG THE SOUTH LINE OF SAID SECTION 18, A DISTANCE OF 1315.66 FEET TO THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER OF THE SOUTHWEST QUARTER OF SAID SECTION 18;

THENCE NORTH 01° 13' 57" WEST A DISTANCE OF 25.58 FEET;

THENCE SOUTH 87° 18' 11" WEST A DISTANCE OF 1227.29 FEET TO THE WEST LINE OF SAID SECTION 18;

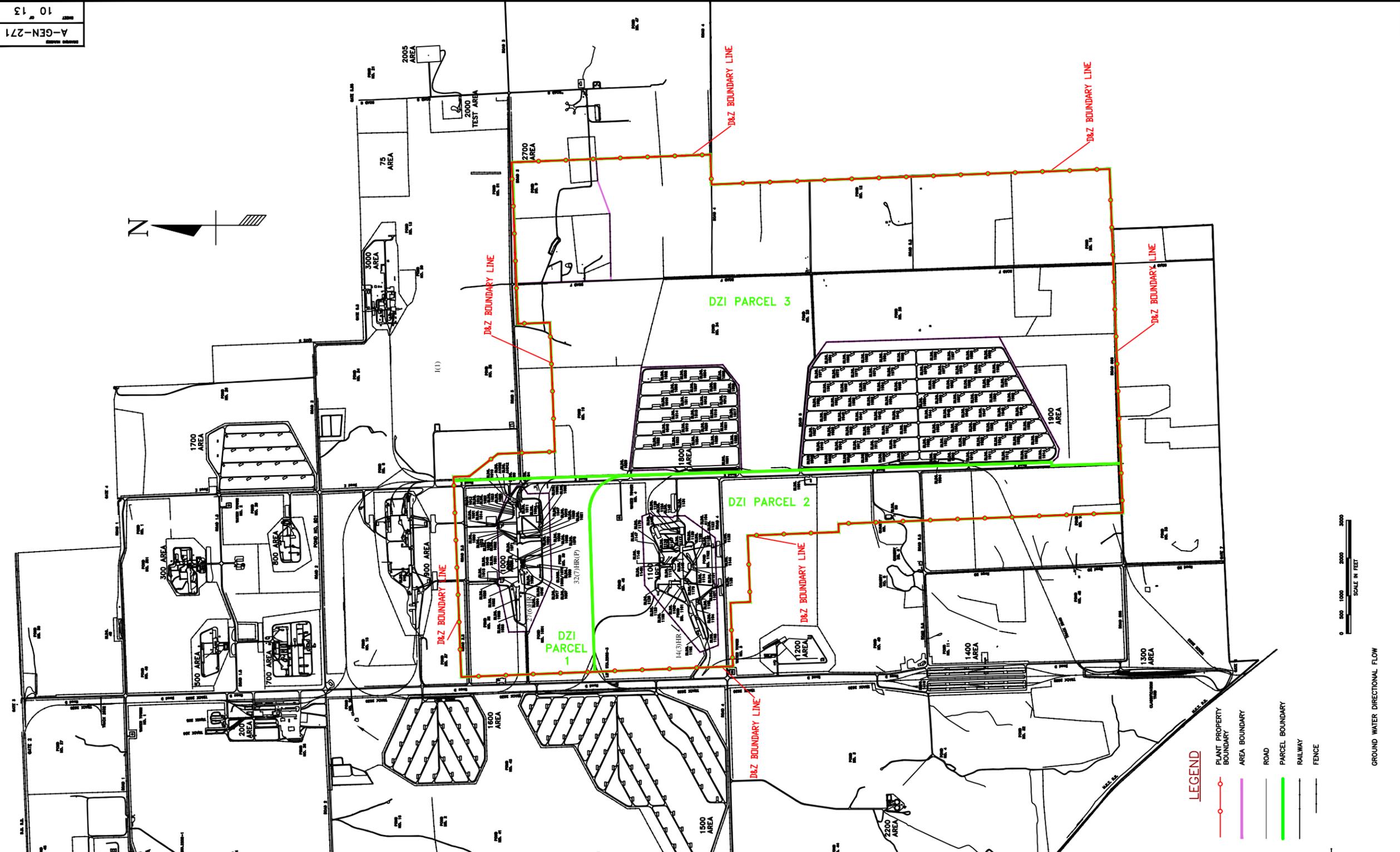
THENCE SOUTH 89° 13' 36" WEST A DISTANCE OF 2662.55 FEET TO THE WEST LINE OF THE SOUTHEAST QUARTER OF SECTION 13, TOWNSHIP 32 SOUTH, RANGE 20 EAST;

THENCE SOUTH 88° 10' 26" WEST A DISTANCE OF 2661.95 FEET TO THE WEST LINE OF THE SOUTHWEST QUARTER OF SAID SECTION 13;

THENCE SOUTH 87° 29' 17" WEST A DISTANCE OF 1609.37 FEET;

THENCE NORTH 01° 44' 32" WEST A DISTANCE OF 2731.21 FEET TO THE **POINT OF BEGINNING;**

ENCOMPASSING 127,762,655 SQUARE FEET, OR 2,933.03 ACRES, MORE OR LESS.



<p>APPROVALS ARE RECORDED ELECTRONICALLY ON THE SHARE POINT SERVER IN THE DRAWING LIBRARY</p> <p>D&Z PROPRIETARY</p> <p>THE INFORMATION CONTAINED IN OR DISCLOSED BY THIS DRAWING IS CONSIDERED PROPRIETARY BY DAY & ZIMMERMANN, INC. THIS DRAWING AND THE INFORMATION CONTAINED OR DISCLOSED HEREIN SHALL NOT BE USED, COPIED OR REPRODUCED IN WHOLE OR IN PART, NOR SHALL THE CONTENTS BE REVEALED TO ANY PERSON (WITH THE EXCEPTION OF THE U.S. GOVERNMENT) UNLESS WRITTEN PERMISSION IS OBTAINED FROM DAY & ZIMMERMANN, INC. DRAWING APPROVAL CONSTITUTES VERIFICATION OF DESIGN.</p> <p>ITAR-CONTROLLED DATA. EXPORT, RE-EXPORT OR DIVERSION CONTRARY TO THE PROVISIONS OF THE INTERNATIONAL TRAFFIC IN ARMS REGULATIONS (22 CFR 120-130) IS STRICTLY PROHIBITED.</p>		<p>A913 RDB 09-28-09 ORIGINAL</p> <p>DR NO. DESIGN ENGINEER DATE</p> <p>SPECIAL NOTES</p> <p>STAMP MARK OR ETCH PIECE MARK ON EACH PART.</p> <p>BREAK ALL SHARP EDGES UNLESS OTHERWISE NOTED.</p> <p>APPLICABLE TOLERANCES UNLESS OTHERWISE NOTED.</p> <p>COMMON FRACTIONS 1/16 ONE DECIMAL 0.000 TWO DECIMALS 0.010 THREE DECIMALS 0.005 ANGLE 1/4" SURFACE FINISH .125</p>	<p>DESCRIPTION OF REVISION</p> <p>Day & Zimmermann We do what we say.</p> <p>DAY & ZIMMERMANN KANSAS LLC 23018 ROOKS ROAD PARSONS, KANSAS 67357</p>	<p>TITLE</p> <p>D&Z Parcel Boundary</p> <p>DATE GENERAL 10/13 SCALE NOTED</p> <p>REV 10/13 A-GEN-271 2</p>
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GROUND WATER DIRECTIONAL FLOW

APPENDIX B-2

**CHECKLIST FOR REVIEW OF FEDERAL KANSAS HAZARDOUS WASTE PROGRAM
PERMIT APPLICATION**

CHECKLIST FOR REVIEW OF FEDERAL RCRA PERMIT APPLICATIONS

SECTION B. FACILITY DESCRIPTION

Section and Requirement	Federal Regulation	Review Consideration ^a	Location in Application ^b	See Attached Comment Number ^c
B-1 General Description	270.14(b)(1)		Section B-1	
B-2 Topographic Map	270.14	Show a distance of 1,000 feet around the unit at a scale of 1 inch to not more than 200 feet (multiple maps may be submitted at this scale), and should be similar to Part A topographic map.	Section B-2	
B-2a General Requirements	270.14(b)(19)		Section B-2	
Scale and Date	270.14(b)(19)(i)	Other scales may be used if justified.	Section B-2	
The 100-Year Flood Plain Area	270.14(b)(19)(ii)		Section B-2	
Surface Waters	270.14(b)(19)(iii)		Section B-2	
Surrounding Land Use	270.14(b)(19)(iv)		Section B-2	
Wind Rose	270.14(b)(19)(v)		Section B-2	
Map Orientation	270.14(b)(19)(vi)		Section B-2	
Legal Boundaries	270.14(b)(19)(vii)		Section B-2	
Access Control	270.14(b)(19)(viii)		Section B-2	
Injection and Withdrawal Wells (On Site and Off Site)	270.14(b)(19)(ix)		Section B-2	
Buildings and Other Structures	270.14(b)(19)(x)	270.14(b)(19)(x) for example list.	Section B-2	
Drainage and Flood Control Barriers	270.14(b)(19)(xi)		Section B-2	
Location of the Treatment or Disposal Unit(s) and Decontamination Areas	270.14(b)(19)(xii)		Section B-2	
Location of Solid Waste Management Units	270.14(d)(1)(i)		TBD	
B-2b Additional Information on the Topographic Map for Land Disposal Facilities	270.14(c)(3)		NA	
Uppermost Aquifer and Hydraulically Connected Aquifers Beneath Facility Property	270.14(c)(2)		Section B-2	
Groundwater Flow Direction	270.14(c)(2)		Section B-2	
Waste Management Areas	270.14(c)(3)		NA	
Property Boundaries	270.14(c)(3)		Section B-2	
Point of Compliance Location	270.14(c)(3); 264.95	Point of compliance is defined in 264.95.	NA	
Location of Groundwater Monitoring Wells	270.14(c)(3); 264.97		Section B-2	
Extent of any Groundwater Contaminant Plume	270.14(c)(4)(i)		NA	
B-3 Facility Location Information	270.14(b)(11); 264.18		Section B-3	
B-3a Seismic Requirements	270.14(b)(11)(i), (ii); 264.18(a)	Seismic requirements applicable only to new facilities.	Section B-3a	

CHECKLIST FOR REVIEW OF FEDERAL RCRA PERMIT APPLICATIONS**SECTION B. FACILITY DESCRIPTION**

Section and Requirement	Federal Regulation	Review Consideration^a	Location in Application^b	See Attached Comment Number^c
Political Jurisdiction in which Facility is Proposed to be Located	270.14(b)(11)(i)		NA	
Indication of Whether Facility is Listed in Appendix VI of 264 (New Facilities)	270.14(b)(11)(i)		NA	
New Facility must be Located at Least 200 feet from a Fault which has had Displacement in Holocene Time	270.14(b)(11)(ii); 264.18(a)	If facility location is listed in Appendix VI of 264, this information is required.	NA	
B-3b Flood Plain Requirements	270.14(b)(11)(iii), (iv); 264.18(b)		Section B-3b	
Copy of Federal Insurance Administration or other Flood Map	270.14(b)(11)(iii)	Reference source used to determine whether facility is located in 100-year flood plain.	Section B-3b	
B-3b(1) Demonstration that Facility is Designed, Constructed, Operated, and Maintained to Prevent Washout, or Detailed Description of Procedures to be Followed to Remove Hazardous Waste to Safety before Facility is Flooded	270.14(b)(11)(iv); 264.18(b)	Flood plain requirements applicable if facility is located in 100-year flood plain.	NA	
B-3b(1)(a) Engineering Analysis to Indicate the Various Hydrodynamic and Hydrostatic Forces Expected to Result from the 100-Year Flood Plain	270.14(b)(11)(iv); 264.18(b)	Flood plain requirements applicable if facility is located in 100-year flood plain.	NA	
Demonstration that no Adverse Effects will Result from Failure to Remove Waste by Providing:	270.14(b)(11)(iv); 264.18(b)(ii)	Flood plain requirements applicable if facility is located in 100-year flood plain.	NA	
Volume and Physical and Chemical Characteristics of the Waste in the Facility	270.14(b)(11)(iv); 264.18(b)(ii)(A)	Flood plain requirements applicable if facility is located in 100-year flood plain.	NA	
Concentration of Hazardous Constituents that Would Potentially Affect Surface Waters as a Result of Washout	270.14(b)(11)(iv); 264.18(b)(ii)(B)	Flood plain requirements applicable if facility is located in 100-year flood plain.	NA	
Impact of such Concentration on Current or Potential uses of, and Water Quality Standards Established for, the Affected Surface Waters	270.14(b)(11)(iv); 264.18(b)(ii)(C)	Flood plain requirements applicable if facility is located in 100-year flood plain.	NA	
Impact of Hazardous Constituents on the Sediments of Affected Surface Waters, or the Soils of the 100-Year Flood Plain, that could Result from Washout	270.14(b)(11)(iv); 264.18(b)(ii)(D)	Flood plain requirements applicable if facility is located in 100-year flood plain.	NA	

CHECKLIST FOR REVIEW OF FEDERAL RCRA PERMIT APPLICATIONS

SECTION B. FACILITY DESCRIPTION

Section and Requirement	Federal Regulation	Review Consideration ^a	Location in Application ^b	See Attached Comment Number ^c
Plan and Schedule for Future Compliance	270.14(b)(11)(v)	Flood plain requirements applicable if facility is located in 100-year flood plain and not in compliance with 264.18(b).	NA	
B-4 Traffic Patterns	270.14(b)(10)	Show turns across traffic lanes and stacking lanes, if appropriate.	Section B-4	
Estimate of Number and Types of Vehicles around the Facility	270.14(b)(10)		Section B-4	
Traffic Control Signs and Signals	270.14(b)(10)		Section B-4	
Road Surface Composition and Load-Bearing Capacity	270.14(b)(10)		Section B-4	

Notes:

- ^a Considerations in addition to the requirements presented in the regulations.
- ^b For each requirement, this column must indicate one of the following: NA for not applicable, IM for information missing, or the exact location of the information in the application.
- ^c If application is deficient in an area, prepare a comment describing the deficiency, attach it to the checklist, and reference the comment in this column.