Stormwater Pollution Prevention Plan

for:

Land Transportation and Warehousing (Sector P)
Buildings 401, 501, 633, 634, 635, 636, 702, 749, 1382, 1392, 1682, 1692, 1982, 2082, 2392, 2427, 2492, 2605, 2615, 2625, 2635, 2645, 2655, 2692, 2792, 2992, 3092, 3192, 3292, 3492, 7426, 7467, 8000, 8030, 8142, 8152, 8200, 9062, 9093, 9100, 9276, 9426, 9436, 9446, 9456, 9466, 9486
Fort Carson, Colorado

SWPPP Contact(s):

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SWPPP Preparation Date:

May 6, 2009

SWPPP Update Date:

December, 2011

A COPY OF THIS SWPPP MUST BE MAINTAINED AT EACH FACILITY (IF STAFFED) AND IMMEDIATELY AVAILABLE UPON REQUEST

RECORDS REQUIRED BY THE MSGP MUST BE INCLUDED IN APPENDIX F

Contents

NOTE TO READER REGARDING UPDATES FROM 2000 MSGP

The initial Stormwater Pollution Plan (SWPPP) was prepared in May 2009 to achieve compliance with the Environmental Protection Agency's (EPA's) 2008 Multi Sector General Permit (MSGP). EPA Region 8, the region in which Fort Carson Military Reservation (Fort Carson) is located, was not covered under the 2008 MSGP. In the absence of a region-specific permit, Fort Carson chose to be proactive and follow the 2008 MSGP. In May of 2010, EPA Region 8 informed Fort Carson that the terms and conditions of the 2000 MSGP would be administratively extended for the Stormwater Program, and remain in full effect until a new MSGP is reissued in 2013. This letter is attached in Appendix F2.

This SWPPP has been updated to comply with these requirements. As a result, Fort Carson revised their stormwater monitoring, maintenance, and inspection program to reflect the requirements of the 2000 MSGP. Changes include monitoring and inspection requirements, benchmark monitoring concentration screening criteria (in some cases), and minor text references. Please note that information documented and data collected in accordance with the 2008 MSGP was not removed from this SWPPP to retain program continuity. In addition to the updates required for the 2000 MSGP, this plan has been updated with information collected over 2009, the first permit year. This information includes monitoring data, records of employee stormwater pollution prevention training, inspection records, and corrective actions resulting from the first year's findings.

SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION

1.1 Facility Information

This document presents the Stormwater Pollution Prevention Plan (SWPPP) for industrial activities and focuses specifically on land transportation and warehousing under Sector P of the Final 2000 Multi-Sector General Permit (MSGP), at the Fort Carson Military Reservation (Fort Carson), Colorado. This SWPPP describes the potential pollutant sources and their associated control measures to minimize the impact of stormwater discharges for the vehicle maintenance facilities located at Buildings 401, 501, 633, 634, 635, 636, 702, 749, 1382, 1392, 1682, 1692, 1982, 2082, 2392, 2427, 2492, 2605, 2615, 2625, 2635, 2645, 2655, 2692, 2792, 2992, 3092, 3192, 3292, 3492, 7426, 7467, 8000, 8030, 8142, 8152, 8200, 9062, 9093, 9100, 9276, 9426, 9436, 9446, 9456, 9466, and 9486, collectively referred to as "Motor Pools" in this report. The 47 sites are identified in this SWPPP as they are similar in nature and perform activities that fall within the land transportation and warehousing operations (Sector P). Requirements for a SWPPP are mandated by the Clean Water Act, 33 U.S.C. 1251 *et seq.,* and the MSGP (Appendix A).

FACILITY INFORMATION

See Figure 1 (Appendix B) for a general location of the Motor Pools.

Name of Facility	Street[1]	Permit Tracking Number	Latitude (N)[2]	Longitude (W)[2]	Located in Indian Country?	Federal Facility?	Area (Acres)
Building 401	Tevis St.	Not applicable	38°45'27.05"	104°47'41.87"	No	Yes	1.2
Building 501	Specker Ave.	Not applicable	38°45'19.85"	104°48'00.41"	No	Yes	9.1
Building 633[3]	Wetzel Ave.	Not applicable	38°45'11.92"	104°47'57.57"	No	Yes	14.0
Building 634[3]	Wetzel Ave.	Not applicable	38°45'12.23"	104°47'56.51"	No	Yes	
Building 635[3]	Wetzel Ave.	Not applicable	38°45'12.55"	104°47'55.45"	No	Yes	
Building 636[3]	Wetzel Ave.	Not applicable	38°45'12.87"	104°47'54.39"	No	Yes	
Building 702	Specker Ave.	Not applicable	38°45'10.72"	104°47'52.04"	No	Yes	5.5
Building 749	Specker Ave.	Not applicable	38°45'11.72"	104°47'44.03"	No	Yes	8.1
Building 1382	Minick Ave.	Not applicable	38°45'00.48"	104°47'01.99"	No	Yes	9.2
Building 1392	Minick Ave.	Not applicable	38°44'58.62"	104°47'00.69"	No	Yes	10.3
Building 1682	Minick Ave.	Not applicable	38°44'45.61"	104°46'51.03"	No	Yes	10.0
Building 1692	Minick Ave.	Not applicable	38°44'43.80"	104°46'49.53"	No	Yes	11.3
Building 1982	Minick Ave.	Not applicable	38°44'26.60"	104°46'33.22"	No	Yes	9.0
Building 2082	Minick Ave.	Not applicable	38°44'25.05"	104°46'30.68"	No	Yes	10.0
Building 2392	Minick Ave.	Not applicable	38°44'14.32"	104°46'17.33"	No	Yes	9.5
Building 2427	Wetzel Ave.	Not applicable	38°43'47.95"	104°46'45.61"	No	Yes	3.1
Building 2492	Minick Ave	Not applicable	38°44'13.84"	104°47'15.67"	No	Yes	9.5
Building 2605	Ardennes St	Not applicable	38°43'15.41"	104°46'38.68"	No	Yes	9.3
Building 2615	Ardennes St	Not applicable	38°43'21.07"	104°46'33.78"	No	Yes	9.5
Building 2625	Ardennes St	Not applicable	38°43'26.48"	104°46'26.89"	No	Yes	11.8
Building 2635	Specker Ave.	Not applicable	38°43'32.62"	104°46'14.60"	No	Yes	11.9

Name of Facility	Street[1]	Permit Tracking Number	Latitude (N)[2]	Longitude (W)[2]	Located in Indian Country?	Federal Facility?	Area (Acres)
Building 2645	Specker Ave.	Not applicable	38°43'33.59"	104°45'56.34"	No	Yes	8.5
Building 2655	Specker Ave.	Not applicable	38°43'32.86"	104°45'46.22"	No	Yes	12.6
Building 2692	Minick Ave.	Not applicable	38°44'04.97"	104°46'02.75"	No	Yes	7.1
Building 2792	Minick Ave.	Not applicable	38°44'03.66"	104°46'00.50"	No	Yes	7.0
Building 2992	Minick Ave.	Not applicable	38°43'56.78"	104°45'47.84"	No	Yes	9.1
Building 3092	Minick Ave.	Not applicable	38°43'55.64"	104°45'45.49"	No	Yes	9.0
Building 3192	O'Connell Blvd.	Not applicable	38°43'48.81"	104°45'30.17"	No	Yes	9.0
Building 3292	Minick Ave.	Not applicable	38°43'47.77"	104°45'27.72"	No	Yes	8.9
Building 3492	Magrath Ave.	Not applicable	38°43'43.35"	38°43'26.48"	No	Yes	12.7
Building 7426	Butts Road	Not applicable	38°42'56.44"	104°47'04.48"	No	Yes	8.5
Building 7467	Devens St.	Not applicable	38°42'48.99"	104°47'13.76"	No	Yes	6.7
Building 8000	O'Connell Blvd.	Not applicable	38°45'24.55"	104°46'58.40"	No	Yes	15.4
Building 8030	O'Connell Blvd.	Not applicable	38°45'14.12"	104°46'53.93"	No	Yes	26.6
Building 8142	O'Connell Blvd.	Not applicable	38°45'13.16"	104°46'40.60"	No	Yes	7.2
Building 8152	O'Connell Blvd.	Not applicable	38°45'12.25"	104°46'33.41"	No	Yes	18.3
Building 8200	O'Connell Blvd.	Not applicable	38°45'25.64"	104°46'46.26"	No	Yes	14.7
Building 9062	Minick Ave.	Not applicable	38°44'07.08"	104°45'45.12"	No	Yes	0.6
Building 9093	Sky Rader Lane	Not applicable	38°42'40.72"	104°45'45.12"	No	Yes	0.8
Building 9100	Butts Road	Not applicable	38°42'22.14"	104°47'51.95"	No	Yes	16.7
Building 9276	Butts Road	Not applicable	38°42'11.07"	104°46'35.93"	No	Yes	5.2
Building 9426	Warfighter Road	Not applicable	38°41'17.60"	104°47'17.36"	No	Yes	8.5
Building 9436	Warfighter Road	Not applicable	38°41'11.94"	104°47'17.36"	No	Yes	8.7
Building 9446	Warfighter Road	Not applicable	38°40'59.40"	104°47'14.11"	No	Yes	14.3
Building 9456	Warfighter Road	Not applicable	38°40'56.74"	104°47'09.02"	No	Yes	8.3
Building 9466	Warfighter Road	Not applicable	38°40'50.47"	104°47'04.38"	No	Yes	10.3
Building 9486	Warfighter Road	Not applicable	38°40'47.82"	104°46'55.42"	No	Yes	11.7

Notes:
[1]All buildings are located within Fort Carson, Colorado 80913 in El Paso county.
[2]Latitude/longitude derived from CADD mapping system.
[3]Buildings 633 and 634 are scheduled to be demolished. Buildings 635 and 636 will eventually be demolished but are not currently scheduled.

DISCHARGE INFORMATION

Discharge information below is applicable to all of the buildings.

Do the facilities discharge stormwater into an MS4? ☒ Yes ☐ No If yes, name of MS4 operator: Fort Carson
Name(s) of water(s) that receive stormwater from your facility: Stormwater from the facilities discharge into storm sewers and eventually to either B-Ditch or Clover Ditch. Both are tributaries of Fountain Creek.
Are any of your discharges directly into any segment of an "impaired" water? ☒ Yes ☐ No Note: According to 5 CCR 1002-93, Regulation Number 93, Section 303(d), List Water Quality Segments Requiring TMDLs (Colorado Department of Public Health and Environment – Water Quality Control Commission 2008) Fountain Creek and all tributaries thereof are considered "impaired" waters by the State of Colorado for *E. Coli*. Stormwater from the facilities discharge into storm sewers (Figure 2, Appendix B) and eventually into Fountain Creek tributaries. If Yes, identify name of the impaired water (and segment, if applicable): Clover Ditch and B-Ditch, which are tributaries of Fountain Creek. **Note – "Impaired" water requirements are not present in the 2000 MSGP. This section is a relic of the 2008 MSGP requirement and is presented for informative purposes.*
Identify the pollutant(s) causing the impairment: *E. Coli.* For pollutants identified, which do you have reason to believe will be present in your discharge? None For pollutants identified, which have a completed TMDL? Receiving waters are listed on the 303 (d) list, however the CDPHE is currently evaluating if a TMDL for E. Coli is necessary. **Note – "Impaired" water requirements are not present in the 2000 MSGP. This section is a relic of the 2008 MSGP requirement and is presented for informative purposes.*
Do you discharge into a receiving water designated as a Tier 2 (or Tier 2.5) water? ☐ Yes ☒ No
Are any of your stormwater discharges subject to effluent guidelines? ☐ Yes ☒ No If Yes, which guidelines apply?
Primary SIC Code or 2-letter Activity Code: 4212-4231 (refer to Appendix D of the MSGP)
Identify your applicable sector and subsector: Sector P and its subsectors.

1.2 Contact Information/Responsible Parties

Facility Operator (s):

Name: United States Department of the Army
Fort Carson
Address: 1626 Evans Street, Bldg. 1219
City, State, Zip Code: Fort Carson, CO 80913
Telephone Number: 719-526-1697
Email address: usarmy.carson.imcom-central.list.dpw-ed-storm-water@mail.mil

Fax number: 719-526-2091

Facility Owner (s):

Name: United States Department of the Army
Fort Carson
Address: 1626 Evans Street, Bldg. 1219
City, State, Zip Code: Fort Carson, CO 80913
Telephone Number: 719-526-1697
Email address: usarmy.carson.imcom-central.list.dpw-ed-storm-water@mail.mil
Fax number: 719-526-2091

SWPPP Contact:

Name: Fort Carson Stormwater Program Manager
Telephone number: 719-526-1697
Email address: usarmy.carson.imcom-central.list.dpw-ed-storm-water@mail.mil
Fax number: 719-526-2091

1.3 Stormwater Pollution Prevention Team

Staff Names	Individual Responsibilities
Stormwater Program Manager	Program management.
Stormwater Program Specialist	Facility inspections, quarterly visual sampling.

All stormwater pollution prevention team members will have access to this SWPPP.

1.4 Activities at the Facility

Motor pool facilities identified under this SWPPP includes 47 buildings located entirely within the cantonment area of Fort Carson. Industrial activities within these facilities include vehicle and equipment maintenance, minor vehicle and equipment cleaning, vehicle and equipment fueling, loading and unloading of materials, material storage, fuel and POL storage, and combat and non-combat vehicle parking.

Vehicle maintenance is performed inside the bays within each facility, with a limited amount of maintenance performed in the vehicle parking area. The bays at which the maintenance activities are performed are equipped with drains that discharge to either the sanitary sewer system or to an oil/water separator which leads to the industrial sewer system. Wash racks located outdoors are connected to an oil/water separator which leads to the industrial sewer.

Most of the motor pool sites are used mainly for vehicle parking and “dry storage” in conexes utilizing approximately 60-80 percent of the outdoor area. Storage of used waste, liquid products, and maintenance material are located both within the building facility and out of doors. In addition, some motor pool facilities have fuel storage and dispensing activities.

The buildings identified within the motor pool are: 401; 501; 633; 634; 635; 636; 702; 749; 1382; 1392; 1682; 1692; 1982; 2082; 2392; 2427; 2492; 2605; 2615; 2625; 2635; 2645; 2655; 2692; 2792; 2992; 3092; 3192; 3292; 3492, 7426, 7467, 8000, 8030, 8142, 8152, 8200, 9062, 9093, 9100, 9276, 9426, 9436, 9446, 9456, 9466, and 9486. Each site will vary in activity, and change in function as the Army relocates the unit, battalion, or squadron. It is reasonable to conclude that the activities performed at each site within the Motor Pool are consistent with one or more of the industrial activities outlined in Section 2.1 of this SWPPP.

1.5 General Location Map

A general location map of Motor Pools is included as Figure 1 (Appendix B).

1.6 Site Map

Site maps of the Motor Pools are included as Figure 2 (Appendix B).

SECTION 2: POTENTIAL POLLUTANT SOURCES

2.1 Industrial Activity and Associated Pollutants

Potential pollutant sources were assessed in accordance with sector specific requirements (6.P.3.2).

Industrial Activity	Associated Pollutants
Vehicle storage/maintenance	BTEX, hydrocarbons, ethylene glycol, heavy metals, antifreeze, brake fluid, hydraulic oil
Vehicle/equipment fueling	Diesel
Diesel fuel storage	Fuel hydrocarbons
Gasoline tank storage	Fuel hydrocarbons
Municipal waste storage (roll-offs)	Household products (cleaning liquids, etc...)
Recyclable plastics/glass/cardboard storage	Potential residue from material originally stored in the material
Scrap metal storage	Heavy metals
Scrap wood/pallet storage	Paint/stain/finishing products
POL storage	BTEX, hydrocarbons, ethylene glycol
Vehicle/equipment washing	BTEX, hydrocarbons, ethylene glycol, heavy metals, antifreeze, brake fluid, hydraulic oil
Fuel tankers	Fuel hydrocarbons
Used antifreeze storage	Ethylene glycol
Flammable storage	Paint waste, materials and wastes, toluene
Used oil storage	Various hydrocarbons, heavy metals
Parts storage	BTEX, hydrocarbons, ethylene glycol, heavy metals, antifreeze, brake fluid, hydraulic oil
Battery storage	Battery acid
Tire (used/new) storage	Fuels, petroleum products
Sand with magnesium chloride (MgCl)	Salt
Solvent (Simple Green®) storage	Household solvent

2.2 Spills and Leaks

Areas of Site Where Potential Spills/Leaks Could Occur

Location	Outfalls
Sitewide at each motor pool	Storm sewers

Description of Past Spills/Leaks

Date	Description	Outfalls
6/16/2009	EPO discovered oil spillage and stains near, on, and around the AST located outside the north east corner of Building 1982.	Building 1982
10/15/2009	EPO discovered several oil spills mixed with dry sweep that had accumulated around the oil AST. Spills had the potential, if not cleaned, to release into a nearby storm drain.	Building 2492
11/13/2009	Hydraulic oil spill reported from leaking forklift between buildings 8300 and 8512. The quantity of the spill was estimated to be up to 50 gallons.	Building 8512
1/21/2010	EPO discovered several oil and antifreeze spills throughout the vehicle line.	Building 2392
5/30/2010	EPO discovered a petroleum oil liquid (POL) substance spill during the walk through inspection of the vehicle line.	Building 1381
5/30/2010	EPO discovered an oil spill under a vehicle in vehicle bay (Bay 15) that had not been sufficiently cleaned during inspection.	Building 1382

2.3 Non-Stormwater Discharges Documentation

- Potential sources of non-stormwater discharges:
  Potential sources at Motor Pools vary by site activities, but could include air conditioner condensate, vehicle or surface wash water, illicit sewer or process water connections, or floor drains.
- Dates of evaluation:
  September 26, 2008 through October 27, 2008 and May 4, 2011 through September 26, 2011.
- Description of the evaluation criteria used:
  Fort Carson performed a physical inspection of the Motor Pools to document storage practices to determine the potential for non-stormwater discharges.
- List of the outfalls or onsite drainage points that were directly observed during the evaluation:
  Outfalls and drainage points as shown individual site maps (Figure 2, Appendix B)

- Different types of non-stormwater discharge(s) and source locations:
  Buildings 633 through 636 bays are not equipped with floor drains. The maintenance areas of these facilities are washed with water once a week and wastewater is discharged to outside storm water inlets.
- Action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), if any were identified. For example, a floor drain was sealed, a sink drain was re-routed to sanitary, or an NPDES permit application was submitted for an unauthorized cooling water discharge:
  Not applicable.

2.4 Salt Storage

Sand mixed with MgCl is stored in piles at Building 8200 (Figure 2 for Building 8200).

2.5 Sampling Data Summary

No stormwater sampling has taken place at the Motor Pools. Quarterly benchmark nor annual effluent limitations monitoring is not required by the MSGP for Sector P. Visual monitoring sample findings are included as part of the inspection records found in Appendix C1. Results from any data collected at the motor pool sites will be added to Appendix F1 on a quarterly basis.

SECTION 3: STORMWATER CONTROL MEASURES

Stormwater control measures shall be implemented to ensure that site activities do not adversely affect stormwater. Corrective actions are required for any deficiencies determined by inspections or any non compliance with this SWPPP. They must be addressed in this SWPPP 14 calendar days after the determination, and updated control measures must be implemented on site before the next anticipated storm event if practicable, but not more than 12 weeks after completion of the comprehensive site evaluation.

3.1 Minimize Exposure

The following activities will be conducted at the Motor Pools to minimize exposure of industrial activities to stormwater:

- Vehicle and equipment maintenance performed in bay area;
- Vehicle and equipment washing performed in a washrack or in a properly bermed area;
- Drip pans are placed under vehicles parked outside;
- Spill kits placed throughout facility;
- Proper storage of materials; and
- Proper cover of materials if stored outdoors.

Sections 3.8 and 3.11 discuss additional controls and procedures that will be implemented at the Motor Pools to minimize stormwater exposure.

3.2 Good Housekeeping

At each site, an environmental protection officer, if applicable, will ensure that personnel are made aware of the proper disposal of waste material, will identify and correct environmental concerns, and will check the site for unsafe conditions. The following good housekeeping practices will be implemented at the facilities where applicable:

- Daily cleanup;
- Daily pickup of trash and litter sitewide;
- Drip pans under stored vehicles in the parking area;
- Established procedures and storage locations for potential pollutants
- Areas swept when required;
- Proper storage of tools and materials used;
- Properly functioning drains and faucets;
- Use of dry absorbents or wet vacuuming to contain residual liquids originating from containers; and
- Not allowing washwater to discharge to the storm sewer system.

There is no set schedule for pickup and disposal of waste materials. Pickup and disposal of non-hazardous waste material will occur as needed depending on the volume of material present.

Above ground storage tanks will be inspected for leaks on a daily basis. Personnel are required to complete the form in Appendix C upon completion of the inspection.

3.3 Maintenance

Motor Pool personnel are required to adhere to Army technical manuals (TMs) for industrial equipment spill avoidance, site control maintenance activities, and maintenance schedules. TMs can be found at: https://www.logsa.army.mil.

3.4 Spill Prevention and Response

Personnel at the Motor Pools are required to follow the Fort Carson Spill Prevention, Control and Countermeasure Plan (SPCCP) (Appendix E). In addition to MSGP and SPCCP reporting requirements, spills and leaks will be reported to other applicable agencies.

3.5 Erosion and Sediment Controls

The Motor Pools are paved with the exception, at many of the facilities, of the area between the pavement and the fence. These unpaved areas are covered with 2-3-inch diameter gravel. Since there is minimal exposed dirt at the Motor Pools, sediment is not generated and additional erosion controls are not required.

3.6 Management of Runoff

Runoff sheet flows along the paved areas and collects in either v-channels or gutters. The flow is then diverted to the storm sewer system through curb drains or drop structures. The runoff is only diverted and not allowed to infiltrate, contained in basins, or reused due to the unique military operations and the minimal open space of the motor pool facilities.

Select buildings that have been constructed recently contain stormwater cutoff valves located in the drainage area where fueling activities are undertaken. These valves provide additional protection in the event of a fueling spill. Surface water runoff within these drainage areas flows into a sump that is closed by the valve. The valve is kept closed and locked, and the key is kept onsite to allow for uncontaminated runoff to drain when appropriate. Buildings that have the stormwater cutoff valves include: 2605, 2625, 2635, 2655, 2656, 3492, 9426, 9436, and 9456.

3.7 Salt Storage Piles or Piles Containing Salt

The sand with MgCl pile at Building 8200 is enclosed by sand bag berms to prevent runoff. The sand bags are monitored as part of operations and are replaced routinely as needed.

3.8 MSGP Sector-Specific Non-Numeric Effluent Limits

Sector P non-numeric effluent limits listed in Section 6.P of the MSGP and compliance procedures are as follows:

- Vehicle and Equipment Storage Areas: Personnel will minimize the potential for stormwater exposure to leaky or leak-prone vehicles/equipment awaiting maintenance by using drip pans under vehicles/equipment, indoor storage of vehicles and equipment if possible, use of absorbents, roofing or covering storage areas, and cleaning pavement surfaces to remove oil and grease.

- Fueling Areas: Personnel will minimize contamination of stormwater runoff from fueling areas by covering the fueling area if possible; using spill/overflow protection and cleanup equipment; minimizing stormwater run-on/runoff to the fueling area; and using dry cleanup methods.

- Material Storage Areas: Personnel will maintain all material storage vessels (e.g., for used oil/oil filters, spent solvents, paint wastes, hydraulic fluids) to prevent contamination of stormwater and plainly label them (e.g., "Used Oil," "Spent Solvents," etc.). In addition, materials will be stored indoors if possible; minimizing runoff of stormwater to the areas; using dry cleanup methods; and treating and/or recycling collected stormwater runoff.

- Vehicle and Equipment Cleaning Areas: Personnel will minimize contamination of stormwater runoff from all areas used for vehicle/equipment cleaning by performing cleaning operations indoors if possible; covering the cleaning operation, ensuring that all washwater drains to a proper collection system (i.e., not the stormwater drainage system); treating and/or recycling collected washwater, or other equivalent measures.

- Vehicle and Equipment Maintenance Areas: Personnel will minimize contamination of stormwater runoff from all areas used for vehicle/equipment maintenance by performing maintenance activities indoors if possible; using drip pans; keeping an organized inventory of materials used in the shop; draining all parts of fluid prior to disposal; prohibiting wet clean up practices if these practices would result in the discharge of pollutants to stormwater drainage systems; using dry cleanup methods; treating and/or recycling collected stormwater runoff, minimizing run on/runoff of stormwater to maintenance areas.

- Locomotive Sanding (loading sand for traction) Areas: Not Applicable, not used at motor pool sites.

- Inspections: See Section 5 of this SWPPP.

- Employee Training: See Section 3.9 of this SWPPP.

- Vehicle and Equipment Washwater Requirements: Vehicles and equipment are not washed at the motor pool facilities listed in this SWPPP therefore; the MSGP requirements are not applicable. All vehicles and equipment are washed at central washing facilities that are closed-loop systems. Equipment and surface washwater enters the industrial sewer system and is not discharged.

3.9 Employee Training

Training is required for all personnel who work in areas where industrial materials or activities are exposed to stormwater, and for all personnel who are responsible for implementing activities identified in this SWPPP. Personnel will be trained annually on used oil and spent solvent management, fueling

procedures, general good housekeeping practices, proper painting procedures, and used battery management.

Personnel are also required to take a 40 hour environmental protection officer (EPO) training course. The EPO training is a comprehensive class that is intended to educate personnel on proper waste disposal, pollution prevention, sustainability goals, and environmental compliance. Stormwater topics covered include an overview of the Fort Carson Stormwater Program and its role in pollution prevention, applicable stormwater regulations on post, and guidance on particular facilities that are permitted under the MSGP. Specific topics covered include the proper use of physical BMPs, good housekeeping BMPs, and other pollution prevention practices. The full curriculum of the training course is included in Appendix F3. EPO training schedules for 2009 – 2011 are shown below. The telephone contact for the EPO class can be reached at 719 526-4446.

Environmental Protection Officer Training

Year	Dates	Location
2009	1/26/2009 - 1/30/2009, 3/9/2009 - 3/13/2009, 4/20/2009 - 4/24/2009, 6/8/2009 - 6/12/2009, 7/27/2009 - 7/31/2009, 9/14/2009 - 9/18/2009, 11/2/2009 - 11/6/2009 , 12/7/2009 - 12/11/2009	DPW Environmental Training Facility - Building #2410
2010	1/25/2010 - 1/29/2010, 3/8/2010 - 3/12/2010, 4/5/2010 - 4/9/2010, 6/7/2010 - 6/11/2010, 7/26/2010 - 7/30/2010, 10/4/2010 - 10/7/2010, 12/6/2010 - 12/10/2010	DPW Environmental Training Facility - Building #2410
2011*	1/24/2011 - 1/28/2011, 3/7/2011 - 3/11/2011, 4/11/2011 - 4/15/2011, 5/23/2011 - 5/27/2011, 7/11/2011 - 7/15/2011, 8/22/2011 - 8/26/2011, 10/3/2011 - 10/7/2011, 12/5/2011 - 12/9/2011	DPW Environmental Training Facility - Building #2410

*Note - 2011 training dates are tentative

Personnel will also be required to attend an annual Environmental Awareness training done by ECAT.

3.10 Non-Stormwater Discharges

Non-storm water discharges which are prohibited are discussed in Sections 1.2.2 and 4.4 of the MSGP and include vehicle/equipment/surface washwater which may be mixed with detergents and toxic or hazardous materials. All Fort Carson vehicles are washed at central washing facilities that are closed-loop systems. Equipment and surface washwater enters the industrial sewer system and is not discharged.

3.11 Waste, Garbage and Floatable Debris

Household trash is placed in closed dumpsters. The dumpsters are emptied weekly or as needed by a contracted waste hauler. Other dumpsters contained recyclable materials (wood, cardboard, etc) will be placed in dumpsters and are sent to Fort Carson recycling centers when full.

3.12 Dust Generation and Vehicle Tracking of Industrial Materials

Since the majority of the areas within the Motor Pools are paved, dust suppression is not necessary. Unpaved portions and any temporary storage area that may be unpaved or unpaved personal vehicle parking areas may generate dust. Prior to dust control, the procedure generating the dust will first be

evaluated to determine if it is necessary and in what ways it can be conducted differently to generate less dust. Potential suppression techniques, should it be necessary, include:

- Unpaved areas: Water application to wet the surface without causing runoff with the use of a water truck (rented or borrowed from another building) or in accordance with the Fort Carson Dust Suppressant Application Standard Operating Procedure (Appendix E).

- Piles and unloading/loading activities: Spraying down dust generated using water. The amount of water applied will be minimized to control the dust without generating runoff. Spraying can be accomplished with a hose attached to either a fire hydrant or water truck.

To date, vehicle tracking has not been an issue at the Motor Pools. Should it become an issue at unpaved areas, signs will be placed at the exit of the facility which state the tires must be clean prior to exiting the site. In addition, the exit and road preceding the exit may be covered with 1-2 inch diameter gravel to help remove debris from vehicles prior to leaving the site.

SECTION 4: SCHEDULES AND PROCEDURES FOR MONITORING

Monitoring is not required for Sector P under the 2000 MSGP.

SECTION 5: INSPECTIONS

Fort Carson is claiming substantially identical for the outfall visual monitoring location at each motor pool. Required documentation is as follows:

- The general activities conducted in the drainage area of each outfall is discussed in Sections 1.4 and 2.1.
- Controls measures are discussed in Sections 3.1, 3.8, and 3.11.
- Exposed materials are discussed in Sections 1.4 and 2.1.
- Since the areas are paved, the runoff coefficient is estimated as high.
- The outfalls are expected to discharge substantially identical effluents since the main industrial activities within each motor pool is similar throughout the motor pool. Throughout the sites, stormwater will contact similar storage items.
- Facility areas are shown in Section 1.1 of this SWPPP.

Routine quarterly and comprehensive annual inspections are required by the MSGP. Both the quarterly and annual inspections require assessment of areas where activities are exposed to stormwater and an evaluation of the stormwater BMPs identified in Section 3 of this SWPPP. The comprehensive inspections also include assessment of industrial materials, residue, or trash on the ground that could contaminate stormwater, leaks or spills of any sort, offsite tracking of industrial materials or sediment, tracking or blowing of raw, final or waste materials from areas of no exposure to exposed areas, and for evidence of (or the potential for) pollutants to enter the drainage system. Discharge locations or locations immediately downstream will be inspected if possible. See the tables below for the full description of both inspections. All previous monitoring results (visual and analytical) will be taken into consideration for each inspection as these results stress the need to identify sources and potential sources of sediment.

Inspections are also conducted by ECAT quarterly. These inspections cover solid waste management, hazardous materials management, spill prevention and control compliance, exposure and secondary containment compliance, and good housekeeping BMPs. The ECAT inspections are independent of the Stormwater program, and not required by the MSGP, but are conducted as part of Fort Carson's commitment to environmental stewardship. As these inspections include the required topics, they will be counted towards the routine quarterly inspections.

Note that any deficiencies identified through any of the following inspections must be addressed (including but not limited to show additional controls on map, revise description of controls to include additional or modified BMPs designed to correct problems identified) in this SWPPP document within 14 calendar days of the inspection. If additional BMP's or control measures are deemed necessary they must be implemented before the next anticipated storm event, if practicable, but not more than 12 weeks after completion of site inspection.

Completed inspection forms are included in Appendix C1. Corrective actions taken resulting from the inspections are included in Appendix F3. Results from the 2010-2012 inspections will be included in these locations as well upon completion. Blank inspection forms are included in Appendix C2. This includes the inspection form to be used for both the routine quarterly and comprehensive annual inspections, as well as the EPA reporting form to be used in reporting the comprehensive annual inspections.

Note the 2009 inspection schedule and requirements were based off the 2008 MSGP, and the 2010-2012 inspection schedule and requirements are based off the 2000 MSGP. See Note to Reader Regarding Updates from the 2000 MSGP for further explanation. The inspection schedule is presented in the following table.

Sector P – Land Transportation and Warehousing

	Site	Inspector (Name, Title) [a]	Routine Facility Inspections (Quarterly)		Comprehensive Site Inspections (Annual) [c]		Visual Discharge Assessment (Quarterly)	
			Schedule [b]	Inspection Procedures	Schedule	Inspection Procedures	Schedule [d]	Inspection Procedures
2009 Inspections	Buildings 401 501 633 634 635 636 749 1382 1392 1682 1692 1982 2082 2392 2427 2692 2792 2992 3092 3192 3292 8142 8152 8200 7426 8000 8030 8110 8472 9276	Fort Carson Stormwater Program Specialist	Jan - Mar 2009 Apr - Jun 2009 Jul - Sep 2009 Oct - Dec 2009	Observe discharges occurring at the time of inspection and follow-up on previously unidentified discharges of pollutants from the site. Inspect control measures needing maintenance or repairs and/or failed control measures that need replacement, and identify additional control measures needed to comply with permit requirements. Document date & time; name/signature of inspector(s); weather information; description of discharges occurring at the time of inspection; previously unidentified discharges of pollutants from the site; control measures needing maintenance or repairs; failed control measures that need replacement; incidents of noncompliance observed; additional control measures needed to comply with permit requirements.	Apr - Jun 2009	Examine industrial materials, residue, trash that may have or could come into contact with stormwater; leaks or spills from industrial equip, drums, tanks and other containers; offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site; tracking or blowing or raw, final or waste materials from areas of no exposure to exposed areas; control measures needing replacement, maintenance, repair. Specific areas to be inspected include the following: Storage areas for vehicles/equipment awaiting maintenance, fueling areas, indoor and outdoor vehicle/equipment maintenance areas, material storage areas, vehicle/equipment cleaning areas and loading/unloading areas. Document date & time; name of inspector(s); findings from examination (see above); observations relating to the implementation of your control measures (see 4.3.2 of 2008 MSGP); required revisions to the SWPPP resulting from the inspection; incidents of noncompliance observed or a certification stating the facility is in compliance with this permit (if there is no noncompliance); signed/certified statement.	Jan - Mar 2009 Apr - Jun 2009 Jul - Sep 2009 Oct - Dec 2009	Collect sample within the first 30 minutes of actual discharge from a storm event; if unable to collect within first 30 minutes, document why. If collecting runoff from snowmelt, the sample must be collected during measurable discharge. Examine and document sample condition (color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other indicators of pollution). Document sample location, date, time, personnel and signatures, nature of discharge (snowmelt or runoff), sample condition (see above), probable sources of observed contamination, and why not taken 1st 30 minutes of discharge from storm event, if applicable (e.g., adverse weather conditions).

Sector P – Land Transportation and Warehousing

	Site	Inspector (Name, Title) [a]	Routine Facility Inspections (Quarterly)		Comprehensive Site Inspections (Annual) [c]		Visual Discharge Assessment (Quarterly)	
			Schedule [b]	Inspection Procedures	Schedule	Inspection Procedures	Schedule [d]	Inspection Procedures
2010 – 2012 Inspections	Buildings 401 501 633 634 635 636 702 749 1382 1392 1682 1692 1982 2082 2392 2427 2492 2605 2615 2625 2635 2645 2655 2692 2792 2992 3092 3192 3292 3492 7426 7467 8000 8030 8142 8152 8200 9062 9093 9100 9276 9426 9436 9446 9456 9466 9486	Fort Carson Stormwater Program Specialist	Jan - Mar 2010 Apr - Jun 2010 Jul - Sep 2010 Oct - Dec 2010 Jan - Mar 2011 Apr - Jun 2011 Jul - Sep 2011 Oct - Dec 2011 Jan - Mar 2012 Apr - Jun 2012 Jul - Sep 2012 Oct - Dec 2012	Inspect all areas of facility where industrial materials or activities are exposed to stormwater. Observe discharges occurring at the time of inspection and follow-up on previously unidentified discharges from the site. Inspect control measures needing maintenance or repairs and/or failed control measures that need replacement, and identify additional control measures needed to comply with permit requirements. Specific areas to be inspected include the following: Storage areas for vehicles/equipment awaiting maintenance, fueling areas, indoor and outdoor vehicle/equipment maintenance areas, material storage areas, vehicle/equipment cleaning areas and loading/unloading areas. Document date & time; name/signature of inspector(s); weather information; description of discharges occurring at the time of inspection; previously unidentified discharges of pollutants from the site; control measures needing maintenance or repairs; failed control measures that need replacement; incidents of noncompliance observed; additional control measures needed to comply with permit requirements. ECAT will also conduct these inspections. Attach completed inspection forms in Appendix C1, and corrective action records within Appendix F3 of this SWPPP.	Jan - Dec 2010 Jan - Dec 2011 Jan - Dec 2012	Examine industrial materials, residue, trash that may have or could come into contact with stormwater; leaks or spills from industrial equip, drums, tanks and other containers; offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site; tracking or blowing or raw, final or waste materials from areas of no exposure to exposed areas; control measures or BMPs identified in this SWPPP needing replacement, maintenance, and/or repair. Outfalls and downstream locations must be inspected for evidence of non-compliance. Specific areas to be inspected include the following: Storage areas for vehicles/equipment awaiting maintenance, fueling areas, indoor and outdoor vehicle/equipment maintenance areas, material storage areas, vehicle/equipment cleaning areas and loading/unloading areas. Complete compliance evaluation report to include the names of personnel completing the inspection, date(s) of the inspection, and major observations (Major observations should include location(s) of discharges of pollutants from the site; location(s) of BMPs that need to be maintained; location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location; and location(s) of where additional BMPs are needed that did not exist at the time of inspection.) relating to the inspection. Inspection reports must identify any incidents of non-compliance or contain a certification that facility is in compliance with this SWPPP. Document and retain (for 3 years from date of permit expiration or termination) evaluation report and actions taken resulting from inspection within Appendix C1 as per MSGP requirements.	Jan - Mar 2010 Apr - Jun 2010 Jul - Sep 2010 Oct - Dec 2010 Jan - Mar 2011 Apr - Jun 2011 Jul - Sep 2011 Oct - Dec 2011 Jan - Mar 2012 Apr - Jun 2012 Jul - Sep 2012 Oct - Dec 2012	Collect sample within the first 30 minutes of actual discharge from a storm event that occurs during normal working hours; if unable to collect within first 30 minutes, document why. Samples should be collected at least 72 hours since last measurable storm event. Collection should be conducted by the same personnel whenever practicable. If collecting runoff from snowmelt, the sample must be collected during measurable discharge. Examine and document sample condition (color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other indicators of pollution). Document sample location, date, time, personnel and signatures, nature of discharge (snowmelt or runoff), sample condition (see above), probable sources of observed contamination, and why not taken 1st 30 minutes of discharge from storm event, if applicable (e.g., adverse weather conditions). Attach completed inspection forms in Appendix C1, and corrective action records within Appendix F3 of this SWPPP.

Notes:

Completed inspection forms are found in Appendix C1 (include sector specific items in 8.N.5 of 2008 MSGP). Blank inspection forms are found in Appendix C2.

[a] To be conducted by 'qualified person' and one member of the stormwater pollution prevention team.

[b] Routine inspections will be conducted by Stormwater Program Staff as well as ECAT Staff. Inspections will only be performed during periods when the facility is in operation and at least once each calendar year, an inspection will be conducted during a period when a stormwater discharge is occurring.

[c] Inspection will be used as one of the routine facility inspections as per Section 4.9.5 of the 2000 MSGP; all components of both types of inspections will be included.

[d] Fort Carson is a semi-arid climate with irregular stormwater runoff. Therefore, required monitoring events may be distributed during seasons when precipitation occurs or when snowmelt results in a measurable discharge.

SECTION 6: DOCUMENTATION TO SUPPORT ELIGIBILITY CONSIDERATIONS UNDER OTHER FEDERAL LAWS

6.1 Documentation Regarding Endangered Species.

Threatened and Endangered Species (T&E) on Fort Carson are managed by the Fort Carson Wildlife Program Office. A combination of surveys from the office identified T&E species for several areas throughout the Cantonment Area as well as downrange. These surveys are available upon request. A summary of T&E species can be found in the table below while their locations can be found on Figure 3 (Appendix B). The burrowing owl and prairie dogs are present in the Motor Pool area. The burrowing owl is listed as threatened by the State of Colorado. The Fort Carson Wildlife Program is in consultation with Federal agencies regrading the burrowing owl. The black-tailed prairie dog is listed as a Colorado Species of Special Concern and currently inhabits areas along Rock Creek and into the Cantonment Area of Fort Carson. The black-tailed prairie dog is a keystone species and supports several species on Fort Carson, including burrowing owls, bald eagle, golden eagle, ferruginous hawk, mountain plover, and swift fox. The U.S. Fish and Wildlife Service is currently performing a status review of a petition to list the black-tailed prairie dog as threatened or endangered under the Endangered Species Act.

There is no evidence to suggest that stormwater discharges from the Motor Pools would have the potential to cause adverse effects to T&E species downstream of the action area. The Motor Pools fall under Criterion A: "No federally-listed threatened or endangered species or their designated critical habitat are likely to occur in the "action area" as defined in Appendix A of the MSGP. For detailed information regarding T&E species or other species at Fort Carson please contact the Wildlife Program Office at 719-524-5393. The endangered species impact is screened during the NEPA review process, which is in place for all projects being implemented on the installation.

Summary of Threatened and Endangered Species at Fort Carson (Colorado Department of Natural Resources 2007).

Taxonomic Group	Common Name	Scientific Name	Status	Documented Presence
Fish	Greenback Cutthroat Trout	*Oncorhynchus clarki stomias*	FT, ST	No; however, species has been stocked in ponds on Fort Carson in the past.
	Southern Redbelly Dace	*Phoxinus erythrogaster*	SE	No; however, species has been documented south of Rock Creek watershed.
	Arkansas Darter	*Etheostoma cragini*	ST	Yes
Amphibian	Plains Leopard Frog	*Rana blairi*	SC	No; however, species known to occur along Fountain Creek east of Fort Carson.
	Northern Leopard Frog	*Rana pipiens*	SC	Yes

Taxonomic Group	Common Name	Scientific Name	Status	Documented Presence
Reptile	Triploid Checkered Whiptail	*Cnemidophorus neotesselatus*	SC	No; however, species has been documented south of Rock Creek watershed.
Bird	Mexican Spotted Owl	*Strix occidentalis lucida*	FT, ST	No; however, species has been documented south of Rock Creek watershed.
	Burrowing Owl	*Athene cunicularia*	ST	Yes
	Golden Eagle*	*Aquila chrysaetos*	MFC	Yes
	Bald Eagle	*Haliaeetus leucocephalus*	SC	Yes
	Ferruginous Hawk	*Buteo regalis*	SC	Yes
	American Peregrine Falcon	*Falco peregrinus anatum*	SC	Yes
	Mountain Plover	*Charadrius montanus*	SC	No; however, species has been documented south of Rock Creek watershed and on lands outside of Fort Carson adjacent to the Cantonment.
	Scaled Quail	*Callipepla squamata*	MFC	Yes
	Marsh Wren	*Cistothorus palustris*	MFC	Yes
	Sora	*Porzana carolina*	MFC	Yes
	Virginia Rail	*Rallus limicola*	MFC	Yes
	Wilson's Snipe	*Gallinago delicate*	MFC	Yes
Mammal	Black-Tailed Prairie Dog	*Cynomys ludovicianus*	SC	Yes
	Swift Fox	*Vulpes velox*	SC	No; however, species has been documented south of Rock Creek watershed.
	Townsend's Big-Eared Bat	*Corynorhinus townsendii pallescens*	SC	No; however, species has been documented south of Rock Creek watershed.
	Preble's Meadow Jumping Mouse	*Zapus hudsonius preblei*	FT, ST	No; however, species has been documented in eastern Colorado in areas of similar habitat.
	Elk	*Cervus elaphus*	MFC	Yes
	Mule Deer	*Odocoileus hemionus*	MFC	Yes
	White-tailed Deer	*Odocoileus virginianus*	MFC	Yes

Notes:
Source: Colorado Department of Natural Resources 2010
* The Eagle Protection Act protects golden eagles and eagle nesting on Fort Carson. FT = Federally Threatened
MFC = Species of Management Concern on Fort Carson
SC = State Special Concern
SE = State Endangered
ST = State Threatened

6.2 Documentation Regarding Historic Properties

Cultural Resources are managed by Fort Carson's Cultural Resources Program (719-526-3806). The Turkey Creek Rock Art District on Fort Carson is the only official National Register District managed by the Cultural Resources Program. This district resides in the Turkey Creek Watershed and therefore is not affected by the Motor Pools. The Motor Pools fall under Criterion A of section 1.2.3.7.1.1 of the MSGP: "Your stormwater discharges, allowable non-stormwater discharges, and discharge-related activities do not affect a property that is listed or is eligible for listing on the National Register of Historic Places as maintained by the Secretary of the Interior". This aligns with Criteria 1 of Addendum B of the MSGP: "If historic properties are not identified in the path of a facility's stormwater and allowable non-stormwater discharges or where construction activities are planned to install BMPs to control such discharges (e.g. diversion channels or retention ponds), then the applicant has met the permit eligibility criteria under Part 1.2.3.7.1".

The Integrated Cultural Resources Management Plan (ICRMP) provides guidance and procedures to enable Fort Carson to meet its legal responsibilities at Fort Carson and Pinon Canyon Maneuver Site (PCMS) for identification, evaluation, and protection of cultural resources while causing the least disturbance to the military mission. The ICRMP integrates legal requirements for cultural resources preservation into the everyday operation of the Fort Carson military mission and supporting activities. The military mission of Fort Carson is to train, mobilize, deploy, and sustain combat-ready, multi-component integrated forces. The executive summary of the ICRMP can be found in Appendix D. The entire 259 page document can be found at http://sems.carson.army.mil/environmental/cultural/default.htm.

6.3 Documentation Regarding NEPA Review (if applicable)

Not Applicable

SECTION 7: SWPPP CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: _____ Title: _____

Signature: _____ Date: _____

SECTION 8: SWPPP MODIFICATIONS

Modifications to this SWPPP are required to provide for the continued protection from stormwater pollution in light of changes that may occur within the facility, or indicators or poor control measure performance.

Modification triggers are shown below along with associated timeframes and required information.

Modification or Update Trigger	Timeframe	Required Information
Spill/leak of oil or hazardous substance equal to or greater than reportable quantity.	Update SWPPP within 14 calendar days of knowledge of release.	Describe the release, circumstances leading to the release, and the date of occurrence. Also review plan to identify measures to prevent the reoccurrence and to respond to such releases, and modify the plan where appropriate.
Deficiency in implementation of SWPPP identified through *routine facility inspection.*	Correct deficiency no later than 14 days of inspection.	Document the results of the inspection and the corrective actions taken in response to any deficiency or opportunity for improvement identified.
Deficiency in control measures identified through *compliance evaluation.*	Modify SWPPP within 14 calendar days following inspection. If existing BMPs need to be modified or if additional BMPs are necessary, implement before the next anticipated storm event, if practicable, but not more than 12 weeks after completion of the evaluation.	Modify SWPPP as necessary to provide for deficient control measures. Modification could include but may not be limited to; show additional controls on site map, and revise description of controls to include additional or modified BMPs designed to correct problems identified.
Change in design, construction, operation, or maintenance at facility which has significant effect on the discharge (or potential for discharge) of pollutants from facility.	No schedule given in MSGP, edits should be made as soon as practicable.	Update facility information in SWPPP, include additional control measures if required.
Determination by inspector (site personnel, or Fort Carson/EPA official) the SWPPP is ineffective.	No schedule given in MSGP, edits should be made as soon as practicable.	Update to ensure SWPPP is effective in eliminating or significantly minimizing pollutants, or is otherwise achieving the general objectives outlined in this plan.
Exceedance of benchmark monitoring guidelines.	No schedule given in MSGP, edits should be made as soon as practicable.	Update or add control measures as necessary depending on the exceedance and site conditions.

Updates or modifications to this SWPPP should be noted in the tracking sheet below.

DATE REVIEWED	REVIEWED/ UPDATED BY	REASON FOR REVIEW OR DESCRIPTION OF UPDATES
December, 2011	AECOM (contractor)	• Updated to comply with 2000 MSGP (Note to Reader Regarding Updates from 2000 MSGP) • Updated list of past spills or leaks • Inspections reported • Addition of 18 newly constructed motor pools.

SWPPP APPENDICES

Appendix A – MSGP (On CD)

Appendix B – Figures

Appendix C – Inspection Forms

Appendix C1 – Completed Inspection Forms

Appendix C2 – Blank Inspection Forms

Appendix D – ICRMP

Appendix E – Referenced Plans (On CD)

Fort Carson Spill Prevention, Control and Countermeasure Plan
Fort Carson Dust Suppression SOP

Appendix F – Records

Appendix F1 – Monitoring Records

Monitoring Data (including annual benchmark average calculation)
Rainfall Data
Annual Reports
Exceedance Reports
Documentation of Benchmark Exceedances
Background Level Information (if applicable)

Appendix F2 – EPA Records

NOI
NOI Acknowledgment and Tracking Number
EPA Correspondence Related to MSGP

Appendix F3 – Internal Records

Employee Training (On CD)
Description of Schedule Deviations
Description of Corrective Actions
Status (active or inactive site) Change Documentation (if applicable)

Appendix A – MSGP

(On CD)

Appendix B – Figures

List of Figures

OUTFALL01

ASPHALT

GRAVEL

406

401

STORED ITEMS:
-VEHICLES
-ENGINE OIL
-FLAMABLES
-ANTIFREEZE
-RECYCLABLES (PLASTICS)
-HYDRAULIC FLUID
-SIMPLE GREEN

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 401
BULK POL STORAGE

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

L:\WORK\29188\CAD\FTCARSON\GRDJCT\ESRI\SWPPP\UPDATE2011\PREVIOUS\BLDG401.MXD DATE: 10/27/2011

GRASS

GRAVEL

OUTFALL02

PAVED

CONCRETE

501

STORED ITEMS:
-VEHICLES
-SCRAP METAL
-POL

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

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W E
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60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 501
MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

L:\WORK\29188\CAD\FTCARSON\GRDJCT\ESRI\SWPPP\UPDATE2011\PREVIOUS\BLDG501.MXD DATE: 10/27/2011

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
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60 30 0 60 120 Feet

AECOM

FIGURE 2

BUILDING NO. 633-636
43RD SUPPORT GROUP

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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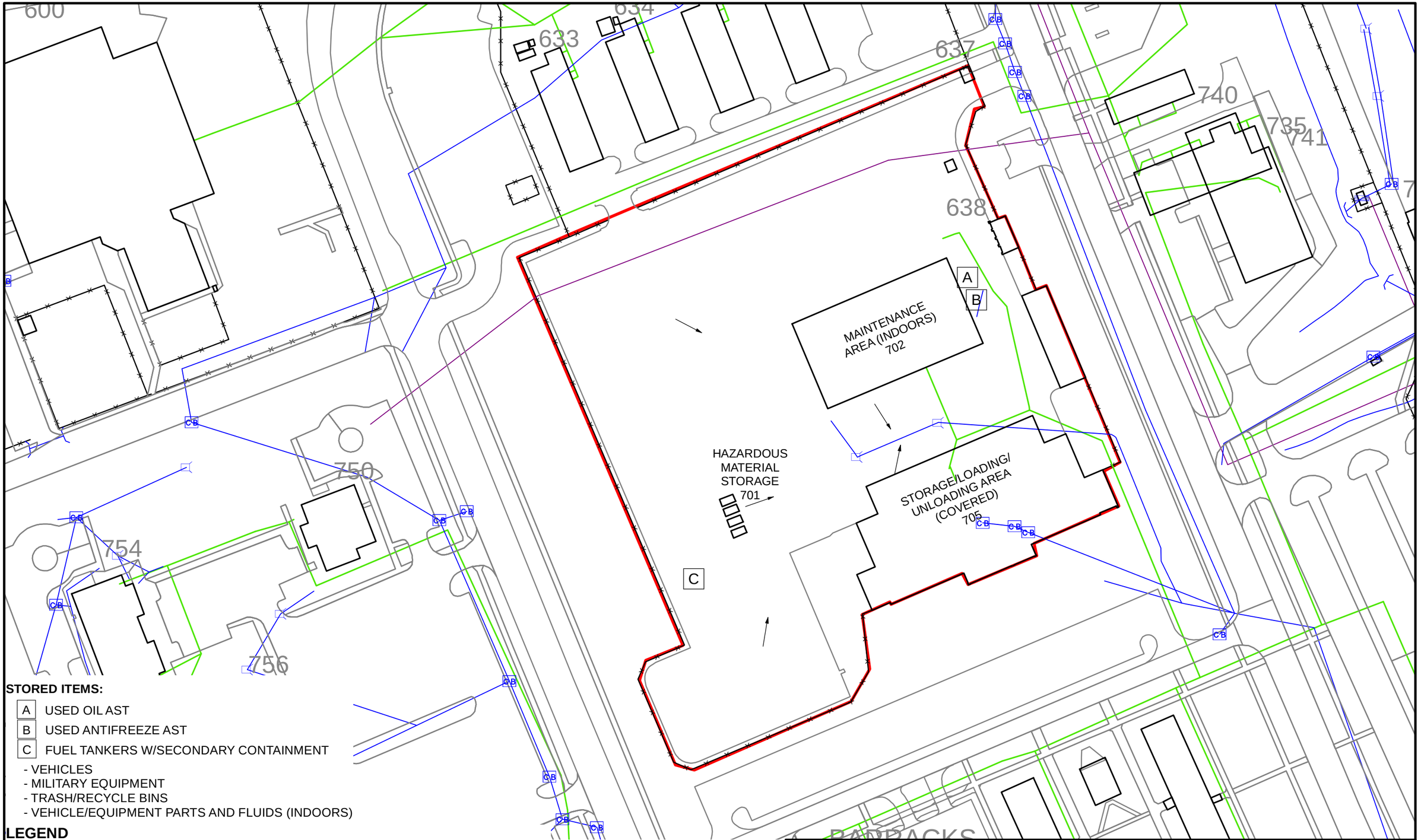

STORED ITEMS:

- A USED OIL AST
- B USED ANTIFREEZE AST
- C FUEL TANKERS W/SECONDARY CONTAINMENT
  - VEHICLES
  - MILITARY EQUIPMENT
  - TRASH/RECYCLE BINS
  - VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)

LEGEND

- CB CATCH BASIN
- DROP INLET
- OIL WATER SEPARATOR
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- FACILITY AREA

N W E S

50 25 0 50 100 Feet

AECOM

FIGURE 2
BUILDING NO. 702
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

L:\WORK\29188\CAD\FTCARSON\GRDJCT\ESRI\SWPPP\UPDATE2011\BLDG702.MXD 11/11/2011

CONCRETE

OUTFALL04

749

A

STORED ITEMS:
A USED OIL AST
- VEHICLES
- USED PARTS
- FLAMMABLES

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
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60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 749
104th MI BATTALION MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

L:\WORK\29188\CAD\FTCARSON\GRDJCT\ESRI\SWPPP\UPDATE2011\PREVIOUS\BLDG749.MXD DATE: 10/27/2011

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

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60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 1382
4th ENGINEER BATTALION MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

L:\WORK\29188\CAD\FTCARSON\GRDJCT\ESRI\SWPPP\UPDATE2011\PREVIOUS\BLDG1382.MXD DATE: 11/9/2011

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

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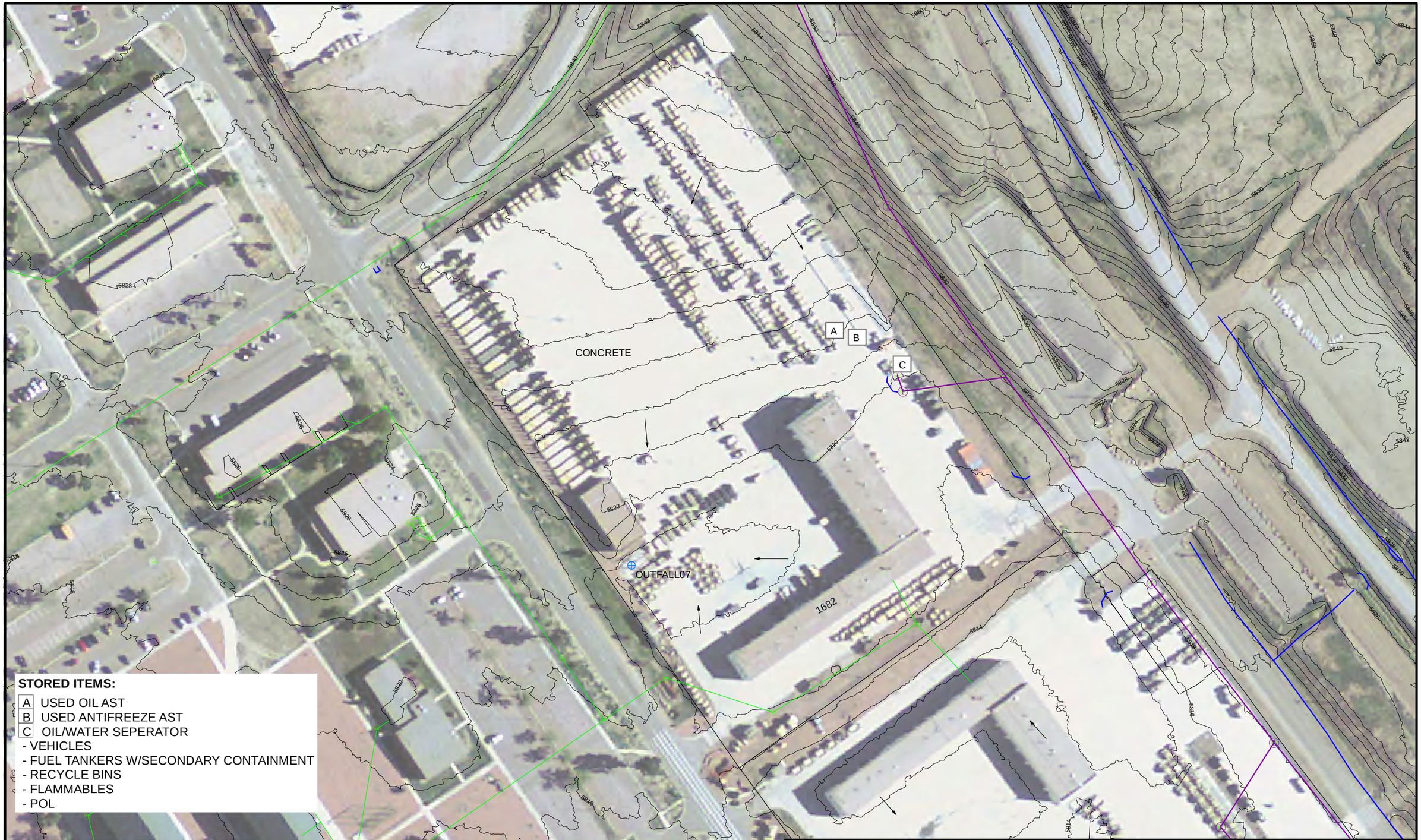
60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 1392
704th BSB, 4 BLT, 4IP BNMP BATTALION
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

L:\WORK\29188\CAD\FTCARSON\GRDJCT\ESRI\SWPPP\UPDATE2011\PREVIOUS\BLDG1392.MXD DATE: 10/27/2011



STORED ITEMS:

- A USED OIL AST
- B USED ANTIFREEZE AST
- C OIL/WATER SEPERATOR
- VEHICLES
- FUEL TANKERS W/SECONDARY CONTAINMENT
- RECYCLE BINS
- FLAMMABLES
- POL

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 1682
1/3 ADA BATTALION MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

L:\WORK\29188\CAD\FTCARSON\GRDJCT\ESRI\SWPPP\UPDATE2011\PREVIOUS\BLDG1682.MXD DATE: 10/27/2011

1692

A

CONCRETE

OUTFALL08

STORED ITEMS:

A USED OIL AST
- VEHICLES
- FLAMMABLES
- FUEL TANKSERS W/SECONDARY CONTAINMENT

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

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W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 1692
5/29 ARTY MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

L:\WORK\29188\CAD\FTCARSON\GRDJCT\ESRI\SWPPP\UPDATE2011\PREVIOUS\BLDG1692.MXD DATE: 10/27/2011

CONCRETE

OUTFALL09

1982

STORED ITEMS:

- A USED OIL AST
- B USED OIL AST
- C USED OIL AST
- D LOCATION OF PAST SPILL OR LEAK
- VEHICLES
- GASOLINE CANS

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N W E S

50 25 0 50 100 Feet

AECOM

FIGURE 2
BUILDING NO. 1982
HHB DIVARTY 10th ARTY MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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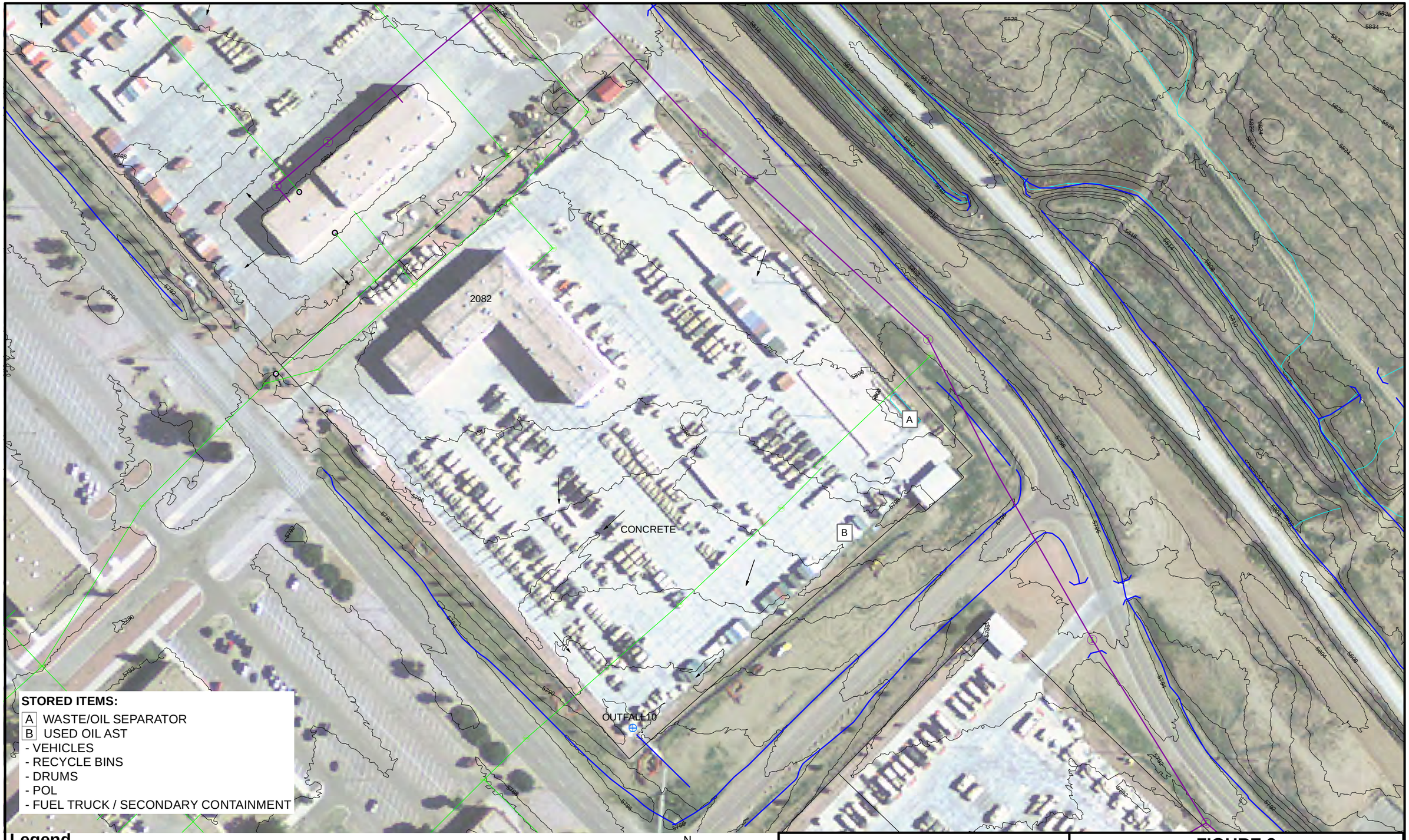

STORED ITEMS:

A WASTE/OIL SEPARATOR
B USED OIL AST
- VEHICLES
- RECYCLE BINS
- DRUMS
- POL
- FUEL TRUCK / SECONDARY CONTAINMENT

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N W E S

60 30 0 60 120 Feet

AECOM

FIGURE 2
BUILDING NO. 2082
2/35 ARMOR MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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STORED ITEMS:

- A USED OIL AST
- B OIL/WATER SEPARTOR
- C LOCATION OF PAST SPILL OR LEAK (NOTED THROUGHOUT VEHICLE LINE)
- VEHICLES
- RECYCLE BINS
- FUEL TANKERS W/SECONDARY CONTAINMENT

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N W E S

60 30 0 60 120 Feet

AECOM

FIGURE 2
BUILDING NO. 2392
1/8 INFANTRY MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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ASPHALT

CONCRETE

A

B

2427

STORED ITEMS:

A OIL/WATER SEPARTOR
B USED OIL CONVAULT (AST)
- VEHICLES
- SCRAP STEEL
- USED TIRES
- GAS CONTAINERS

Legend

- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 2427
AUTO CRAFT SHOP
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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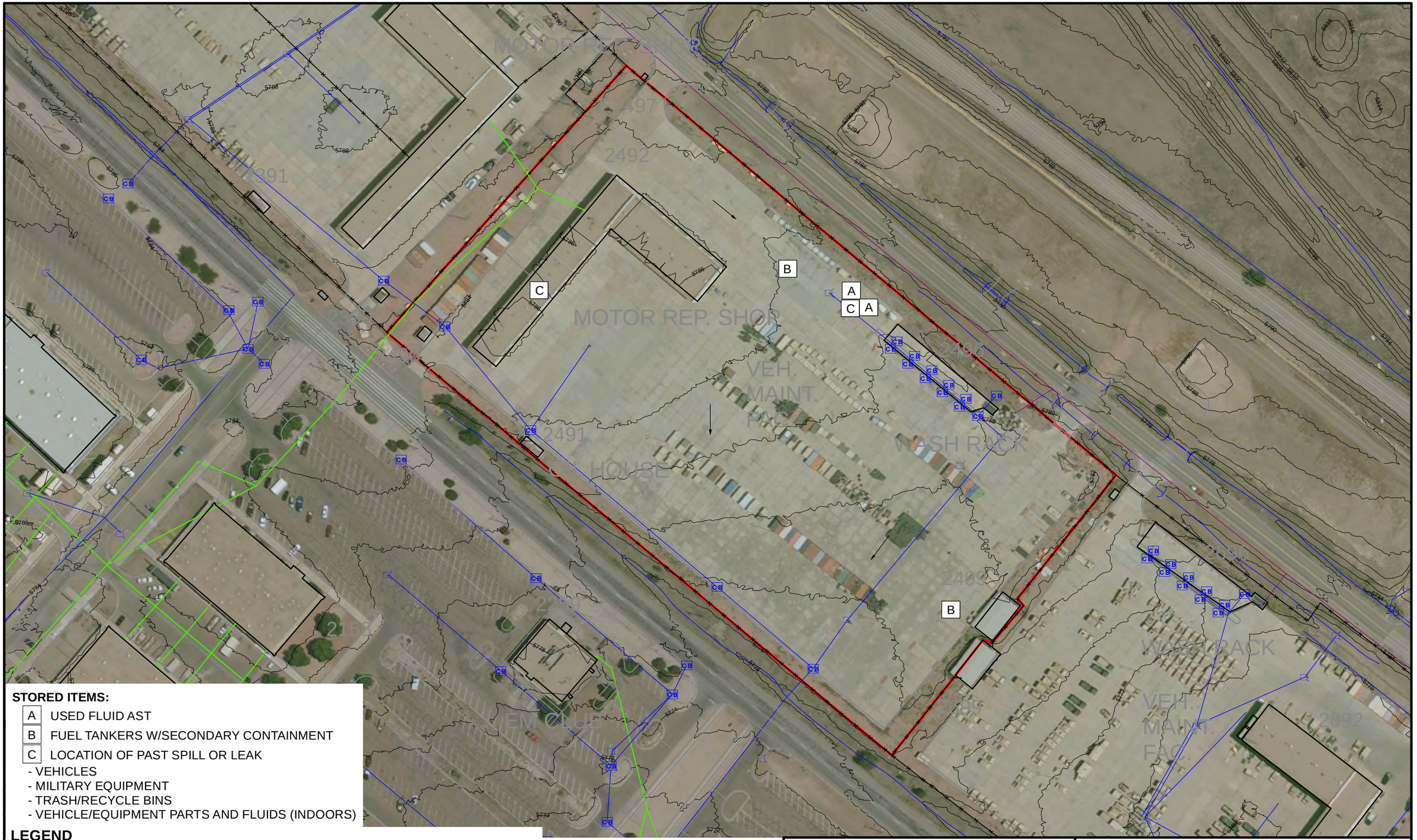

STORED ITEMS:

- A USED FLUID AST
- B FUEL TANKERS W/SECONDARY CONTAINMENT
- C LOCATION OF PAST SPILL OR LEAK
  - VEHICLES
  - MILITARY EQUIPMENT
  - TRASH/RECYCLE BINS
  - VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- ELEVATION CONTOUR
- DIRECTION OF FLOW
- FENCE
- FACILITY AREA

N W E S

60 30 0 60 120 Feet

AECOM

FIGURE 2

BUILDING NO. 2492
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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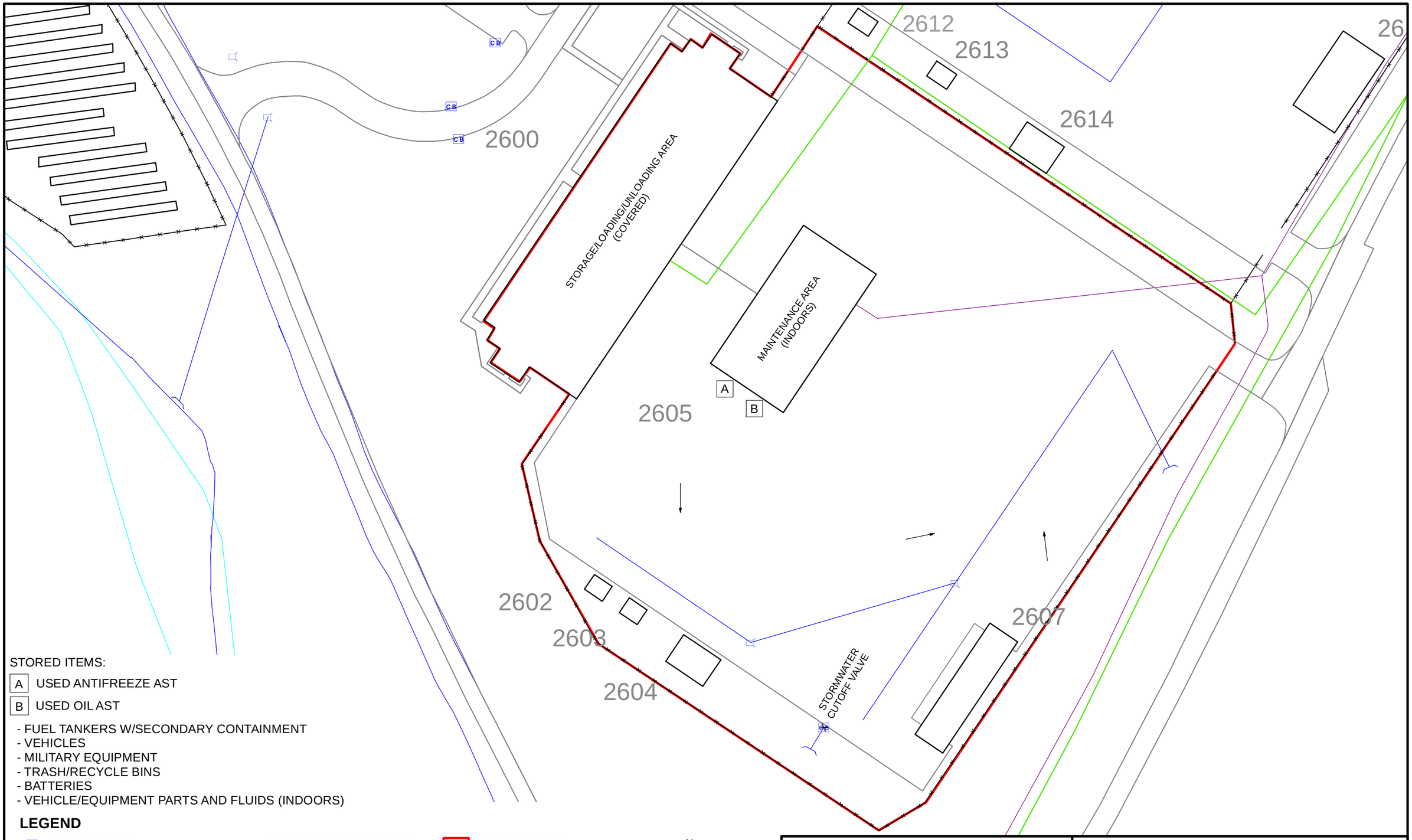

STORED ITEMS:

A USED ANTIFREEZE AST

B USED OIL AST

- FUEL TANKERS W/SECONDARY CONTAINMENT
- VEHICLES
- MILITARY EQUIPMENT
- TRASH/RECYCLE BINS
- BATTERIES
- VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)

LEGEND

- CB CATCH BASIN
- INLET DROP POINT
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- FACILITY AREA

AECOM

FIGURE 2
BUILDING NO. 2605
MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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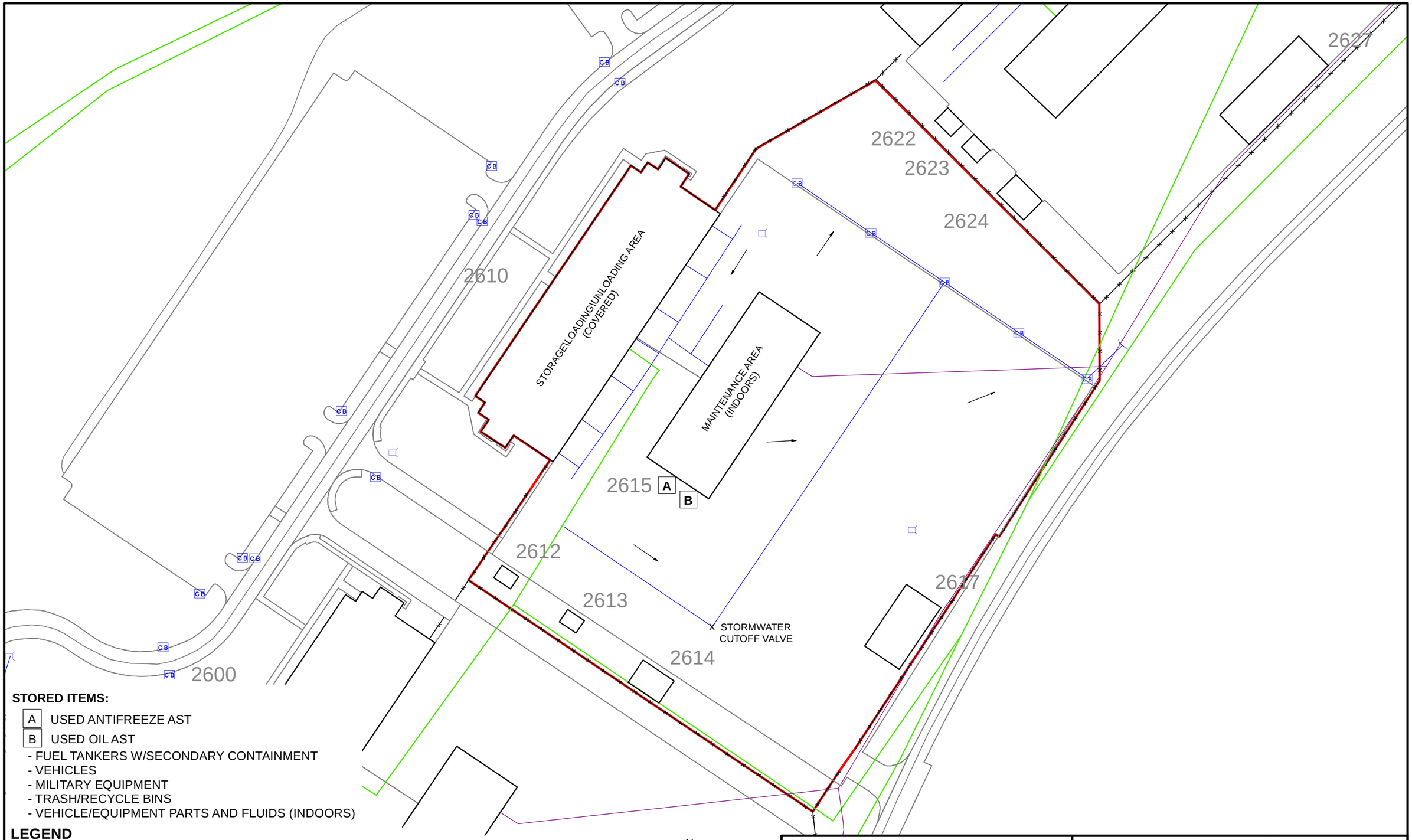

STORED ITEMS:

- A USED ANTIFREEZE AST
- B USED OIL AST
- FUEL TANKERS W/SECONDARY CONTAINMENT
- VEHICLES
- MILITARY EQUIPMENT
- TRASH/RECYCLE BINS
- VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- FACILITY AREA

AECOM

FIGURE 2

BUILDING NO. 2615
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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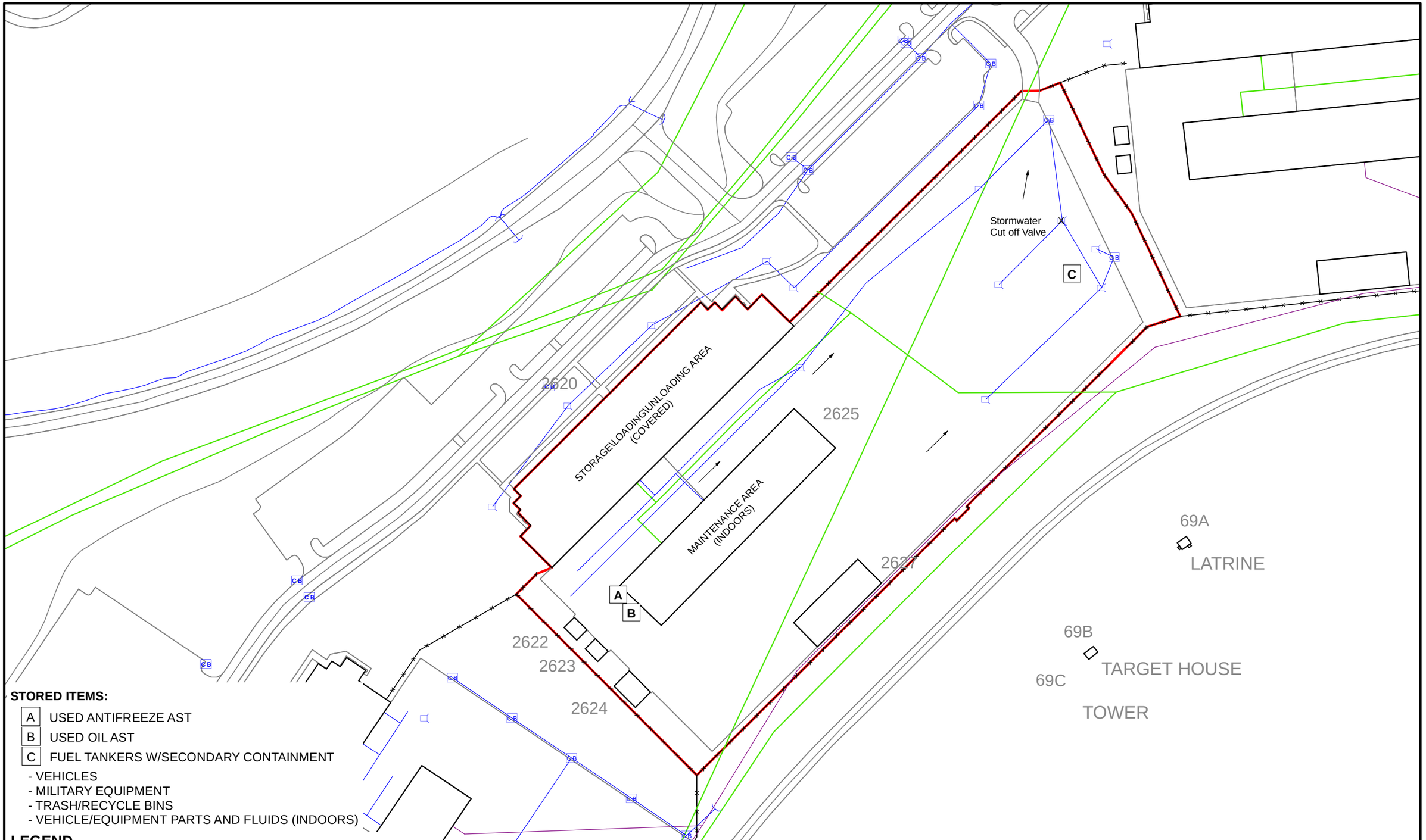

STORED ITEMS:

- A USED ANTIFREEZE AST
- B USED OIL AST
- C FUEL TANKERS W/SECONDARY CONTAINMENT
  - VEHICLES
  - MILITARY EQUIPMENT
  - TRASH/RECYCLE BINS
  - VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- FACILITY AREA

AECOM

FIGURE 2

BUILDING NO. 2625
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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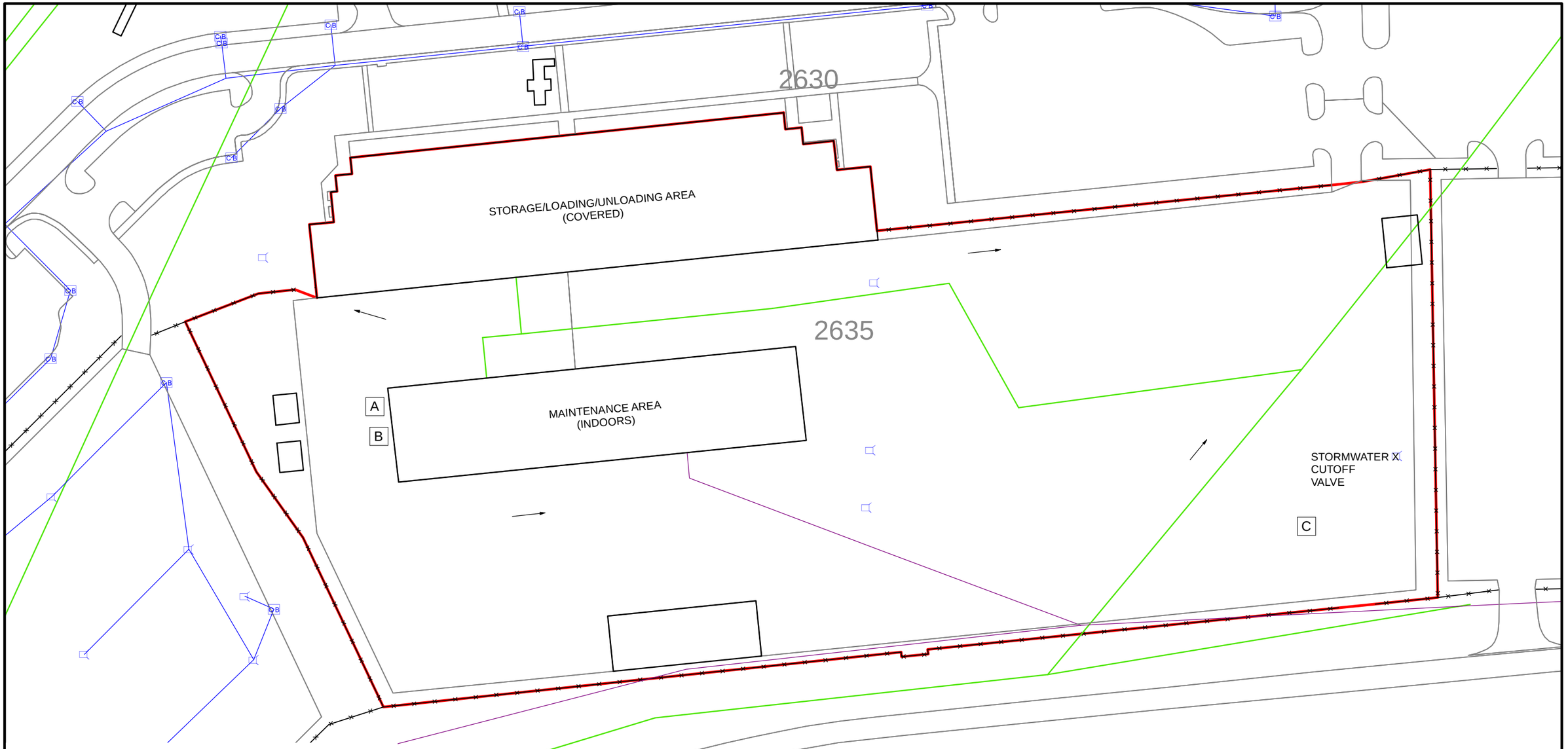

STORED ITEMS:

- A USED ANTIFREEZE AST
- B USED OIL AST
- C FUEL TANKERS W/SECONDARY CONTAINMENT
  - VEHICLES
  - MILITARY EQUIPMENT
  - TRASH/RECYCLE BINS
  - VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- FACILITY AREA

N W E S

50 25 0 50 100 Feet

AECOM

FIGURE 2

BUILDING NO. 2635
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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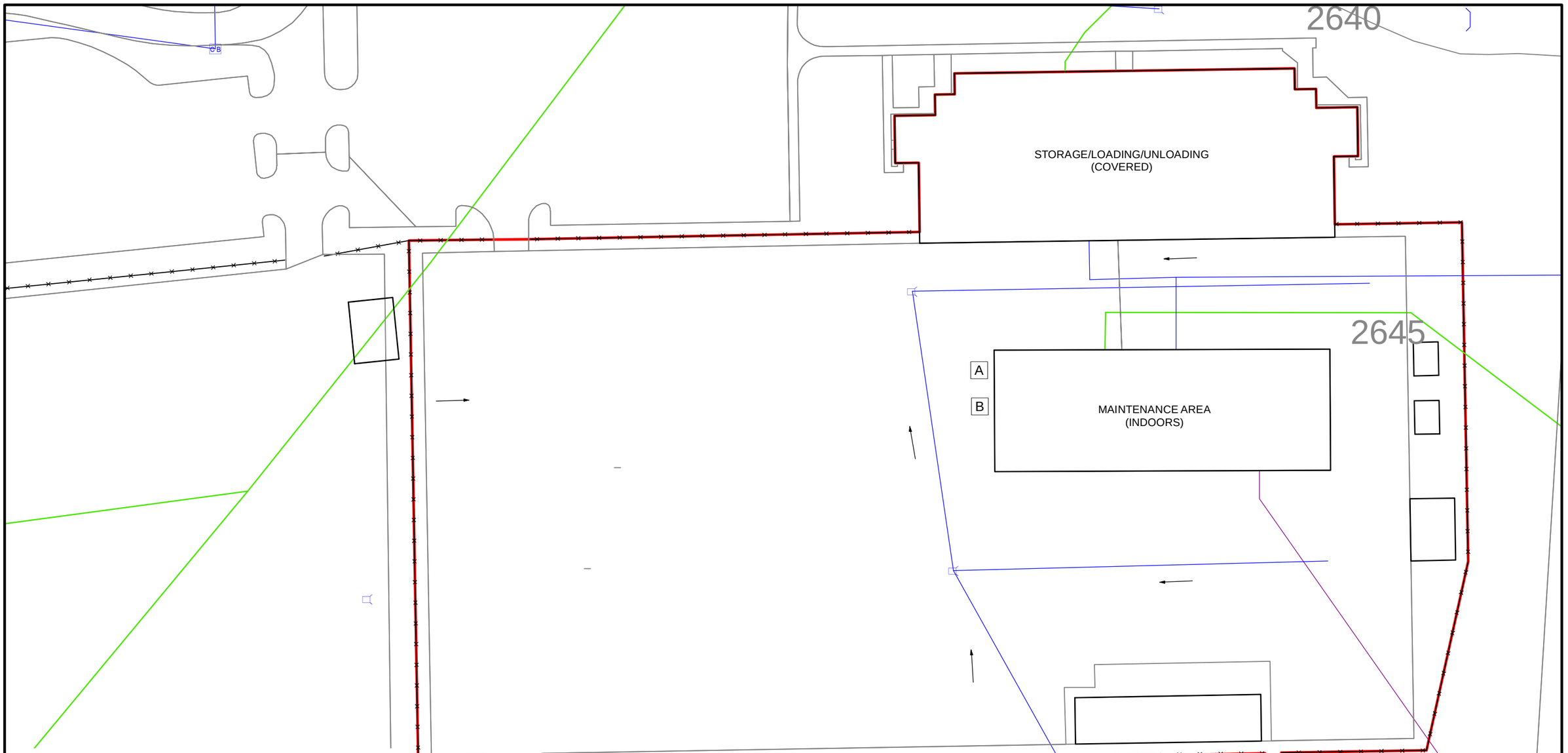

STORED ITEMS:

A USED ANTIFREEZE AST

B USED OIL AST

- VEHICLES
- MILITARY EQUIPMENT
- TRASH/RECYCLE BINS
- VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)
- FUEL TANKERS W/SECONDARY CONTAINMENT

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- FACILITY AREA

N W E S

40 20 0 40 80 Feet

AECOM

FIGURE 2

BUILDING NO. 2645
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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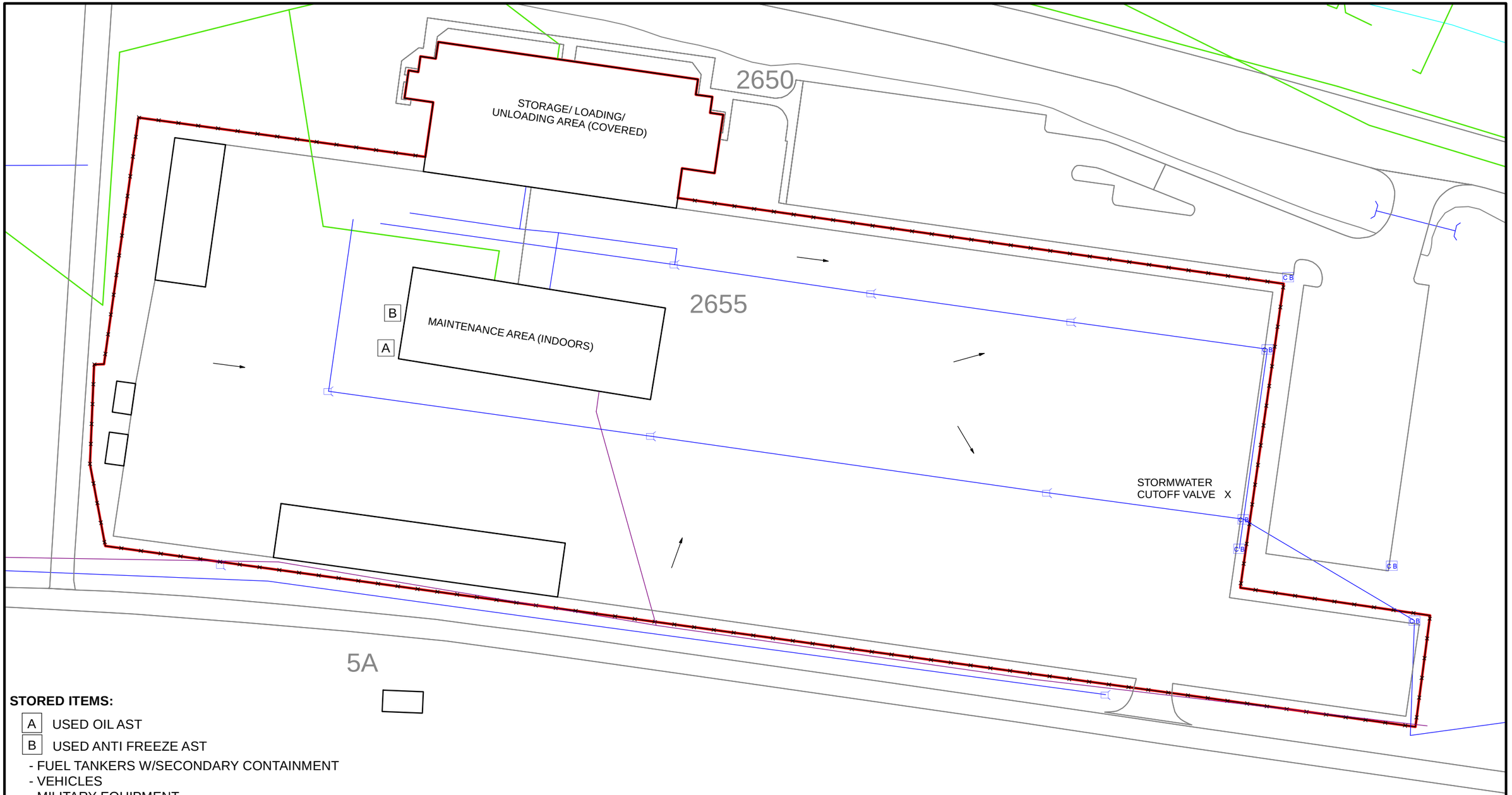

STORED ITEMS:

- A USED OIL AST
- B USED ANTI FREEZE AST
- FUEL TANKERS W/SECONDARY CONTAINMENT
- VEHICLES
- MILITARY EQUIPMENT
- TRASH/RECYCLE BINS
- VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)
- OIL RAG DISPOSAL BINS
- PALLETS

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- FACILITY AREA

N W E S

50 25 0 50 100 Feet

AECOM

FIGURE 2
BUILDING NO. 2655
MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N W E S

60 30 0 60 120 Feet

AECOM

FIGURE 2
BUILDING NO. 2692
HHC 3 STB MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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2792

B

A

CONCRETE

OUTFALL14

STORED ITEMS:

A USED OIL AST
B USED OIL AST
- VEHCILES
- POL
- FLAMMABLES

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 2792
HHC 4th ID
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N W E S

60 30 0 60 120 Feet

AECOM

FIGURE 2
BUILDING NO. 2992
2/12th INFANTRY MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

L:\WORK\29188\CAD\FTCARSON\GRDJCT\ESRI\SWPPP\UPDATE2011\PREVIOUS\BLDG2992.MXD DATE: 10/27/2011

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 3092
3/68 ARMOR MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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CONCRETE

A

B

3192

OUTFALL17

C

STORED ITEMS:

A USED ANTIFREEZE AST
B USED OIL AST
C USED OIL AST
- VEHICLES
- POL
- WOOD SCRAP
- METAL SCRAP
- FLAMMABLES

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 3192
1/10 CAVALRY MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 3292
299th ENG. BATTALION MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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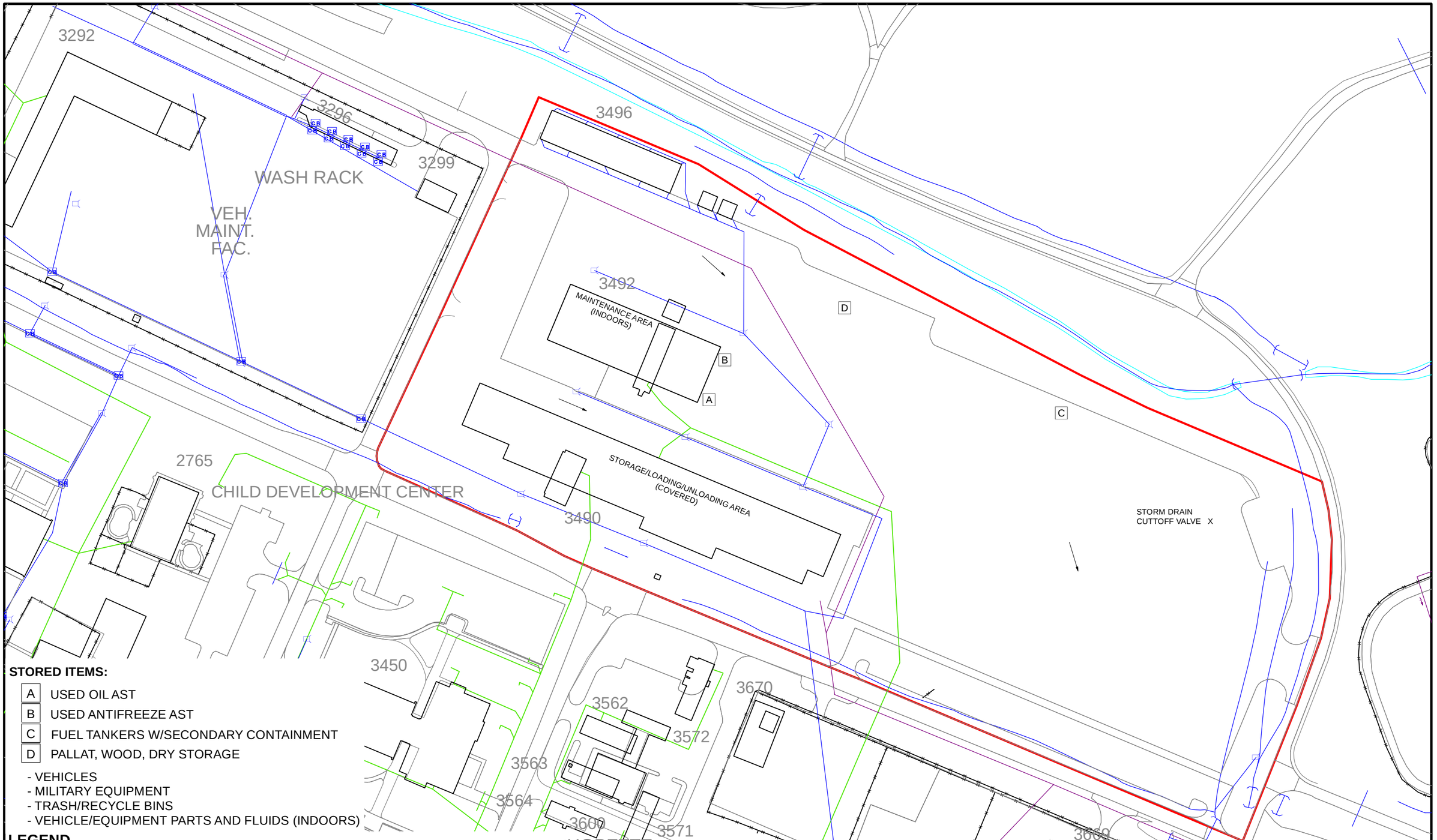

STORED ITEMS:

- A USED OIL AST
- B USED ANTIFREEZE AST
- C FUEL TANKERS W/SECONDARY CONTAINMENT
- D PALLAT, WOOD, DRY STORAGE

- VEHICLES
- MILITARY EQUIPMENT
- TRASH/RECYCLE BINS
- VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- FACILITY AREA

N W E S

75 37.5 0 75 150 Feet

AECOM

FIGURE 2

BUILDING NO. 3492
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

L:\WORK\29188\CAD\FTCARSON\GRDJCT\ESRI\SWPPP\UPDATE2011\BLDG3492.MXD 11/11/2011

ASPHALT

7426

A

B

C

STORED ITEMS:

A FUEL STORAGE ASTs (3)
B USED OIL ASTs (2)
C USED ANTIFREEZE AST
- VEHICLES
- FLAMMABLES
- RECYCLE BINS
- WASTE DUMPSTERS

Legend

- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 7426
10th SPECIAL FORCES COMPLEX

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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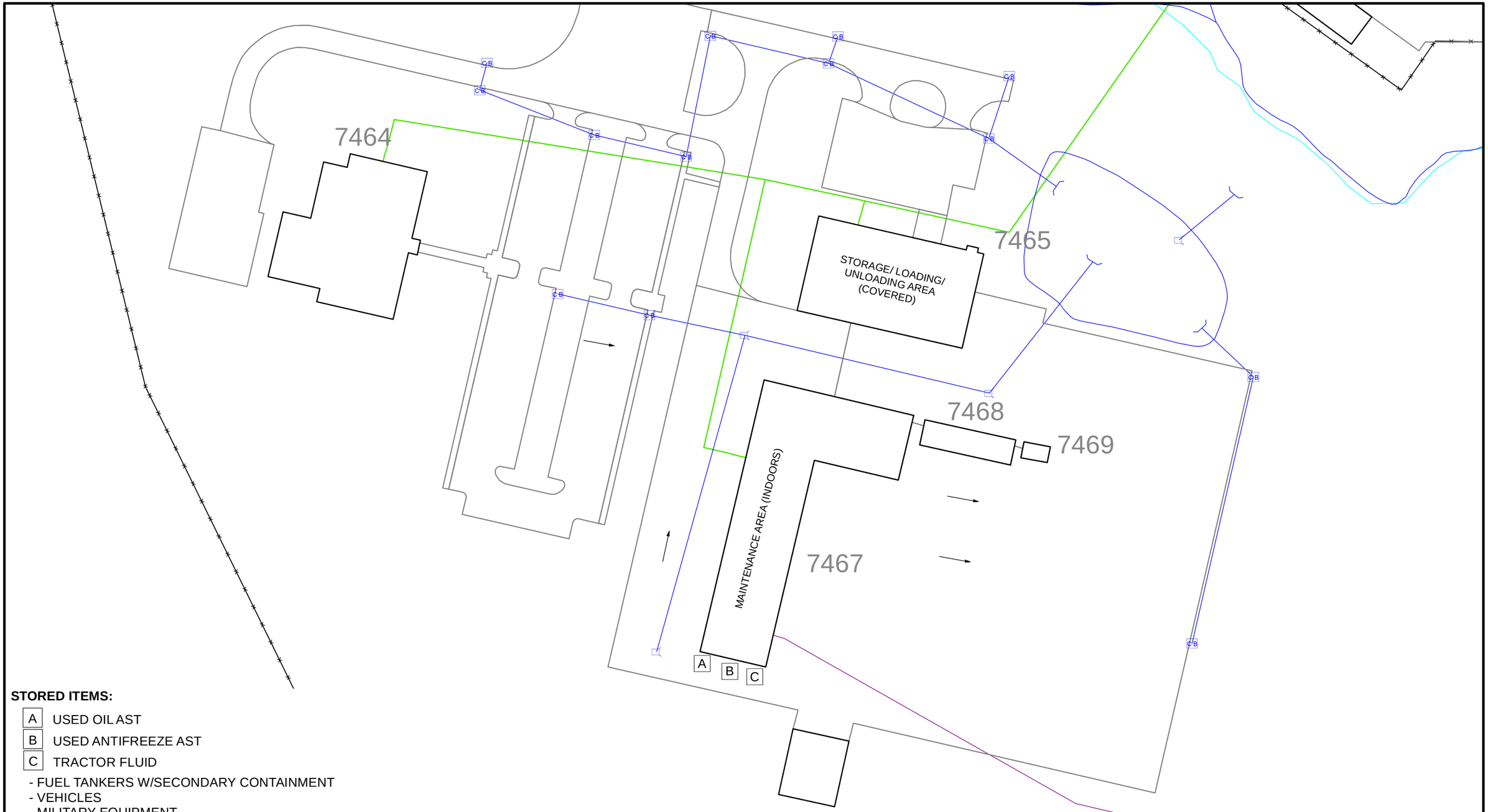

STORED ITEMS:

- A USED OIL AST
- B USED ANTIFREEZE AST
- C TRACTOR FLUID
- FUEL TANKERS W/SECONDARY CONTAINMENT
- VEHICLES
- MILITARY EQUIPMENT
- TRASH/RECYCLE BINS
- VEHICLE/EQUIPMENT PARTS AND FLUIDS
- PALLETS

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE

N W E S

50 25 0 50 100 Feet

AECOM

FIGURE 2
BUILDING NO. 7467
MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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CONCRETE

8000

A B C D E F G

OUTFALL20

STORED ITEMS:

- A USED OIL AST
- B USED OIL ASTs (4)
- C USED OIL AST
- D USED BATTERY/ACID STORAGE
- E USED OIL AST
- F USED OIL AST
- G USED ANTIFREEZE AST
- VEHICLES
- RECYCLE BINS
- WASTE DUMPSTERS
- SCRAP METAL
- TIRE STORAGE
- FLAMMABLES

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N W E S

60 30 0 60 120 Feet

AECOM

FIGURE 2
BUILDING NO. 8000
DOL CONSOLIDATED MAINTENANCE
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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8030

ASPHALT

OUTFALL21

A

B

C

STORED ITEMS:

A USED OIL AST
B USED OIL AST
C USED OIL AST
- VEHICLES
- MISCELLANEOUS PARTS
- METAL SCRAP
- CARDBOARD SCRAP
- TILES
- FLAMMABLES
- RECYCLE BINS
- BATTERIES
- POL
- WASTE DUMPSTER
- TANKS W/SECONDARY CONTAINMENT

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 8030
DIVISION MAINTENANCE FACILITY

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N W E S

60 30 0 60 120 Feet

AECOM

FIGURE 2
BUILDING NO. 8142
183rd MAINTENANCE FACILITY
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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CONCRETE

OUTFALL24

8152

A
B
C
D
E
F

STORED ITEMS:

- A USED OIL AST
- B USED OIL AST
- C USED OIL AST
- D USED OIL AST
- E USED ANTIFREEZE AST
- F LOCATION OF PAST SPILL OR LEAK
- VEHICLES
- WASTE DUMPSTERS
- POL
- BATTERY
- SCRAP METAL
- SCRAP WOOD
- CARDBOARD
- FLAMMABLES
- FUEL TANKERS W/SECONDARY CONTAINMENT

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N
W E
S

60 30 0 60 120
Feet

AECOM

FIGURE 2
BUILDING NO. 8152
68th SUPPORT BATTALION
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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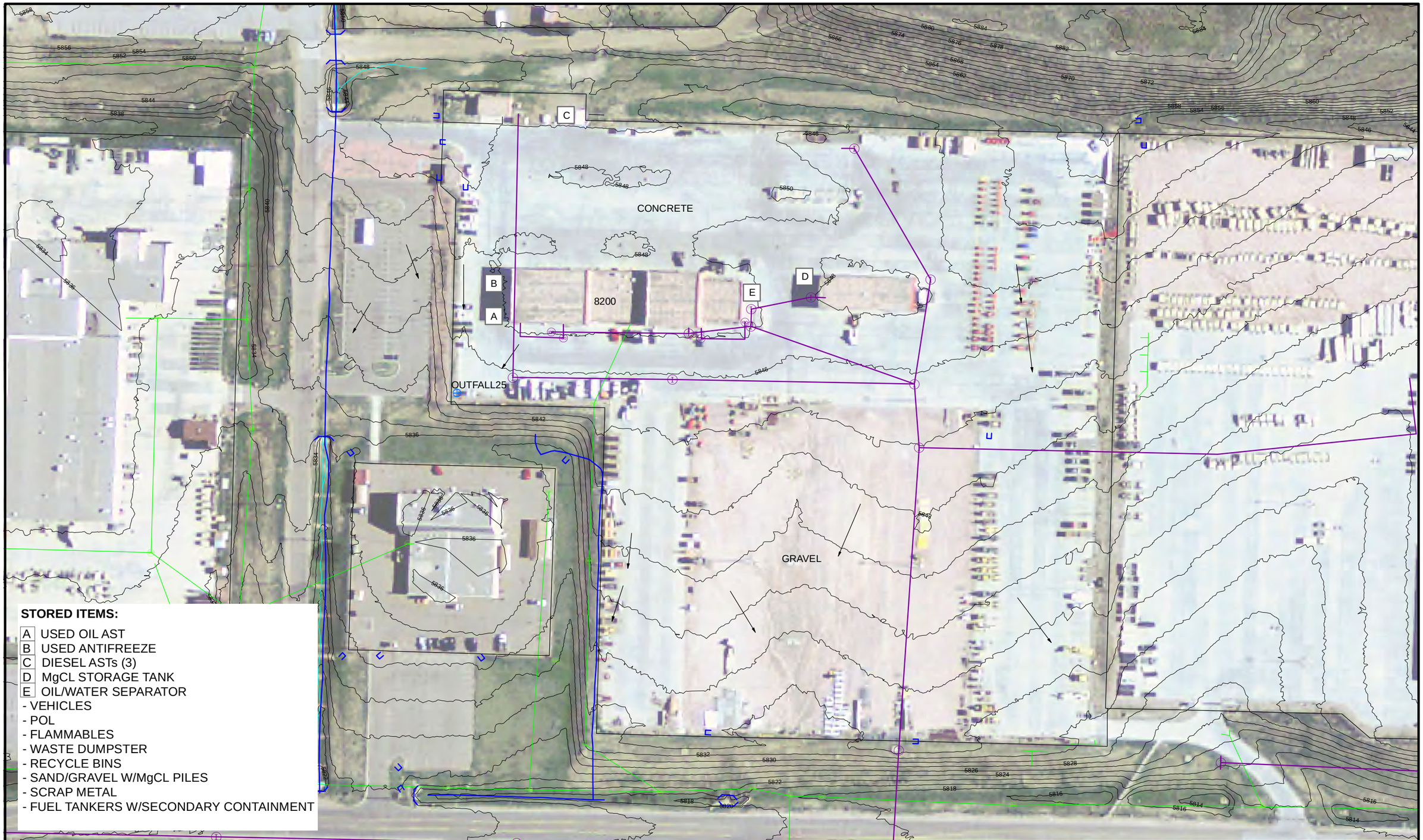

STORED ITEMS:

- A USED OIL AST
- B USED ANTIFREEZE
- C DIESEL ASTs (3)
- D MgCL STORAGE TANK
- E OIL/WATER SEPARATOR
- VEHICLES
- POL
- FLAMMABLES
- WASTE DUMPSTER
- RECYCLE BINS
- SAND/GRAVEL W/MgCL PILES
- SCRAP METAL
- FUEL TANKERS W/SECONDARY CONTAINMENT

Legend

- SAMPLE LOCATION
- DIRECTION OF FLOW
- FENCE
- SURFACE WATER COURSE
- WASTEWATER SYSTEM
- INDUUSTRIAL WASTE SYSTEM
- STORM SYSTEM
- ELEVATION CONTOUR

N W E S

60 30 0 60 120 Feet

AECOM

FIGURE 2
BUILDING NO. 8200
64th FORWARD SUPPORT BATTALION
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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STORAGE /LOADING/UNLOADING AREA
(COVERED)

B

A

MAINTENANCE AREA
(INDOORS)

9062

DETENTION
POND

SYNC. RAMP

9071

9077

STORED ITEMS:

A USED OIL AST

B USED ANTIFREEZE AST

- FUEL TANKERS W/SECONDARY CONTAINMENT
- VEHICLES
- MILITARY EQUIPMENT
- TRASH/RECYCLE BINS
- VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)

LEGEND

- DROP INLET
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- SURFACE WATER COURSE

N
W E
S

50 25 0 50 100
Feet

AECOM

FIGURE 2
BUILDING NO. 9062
MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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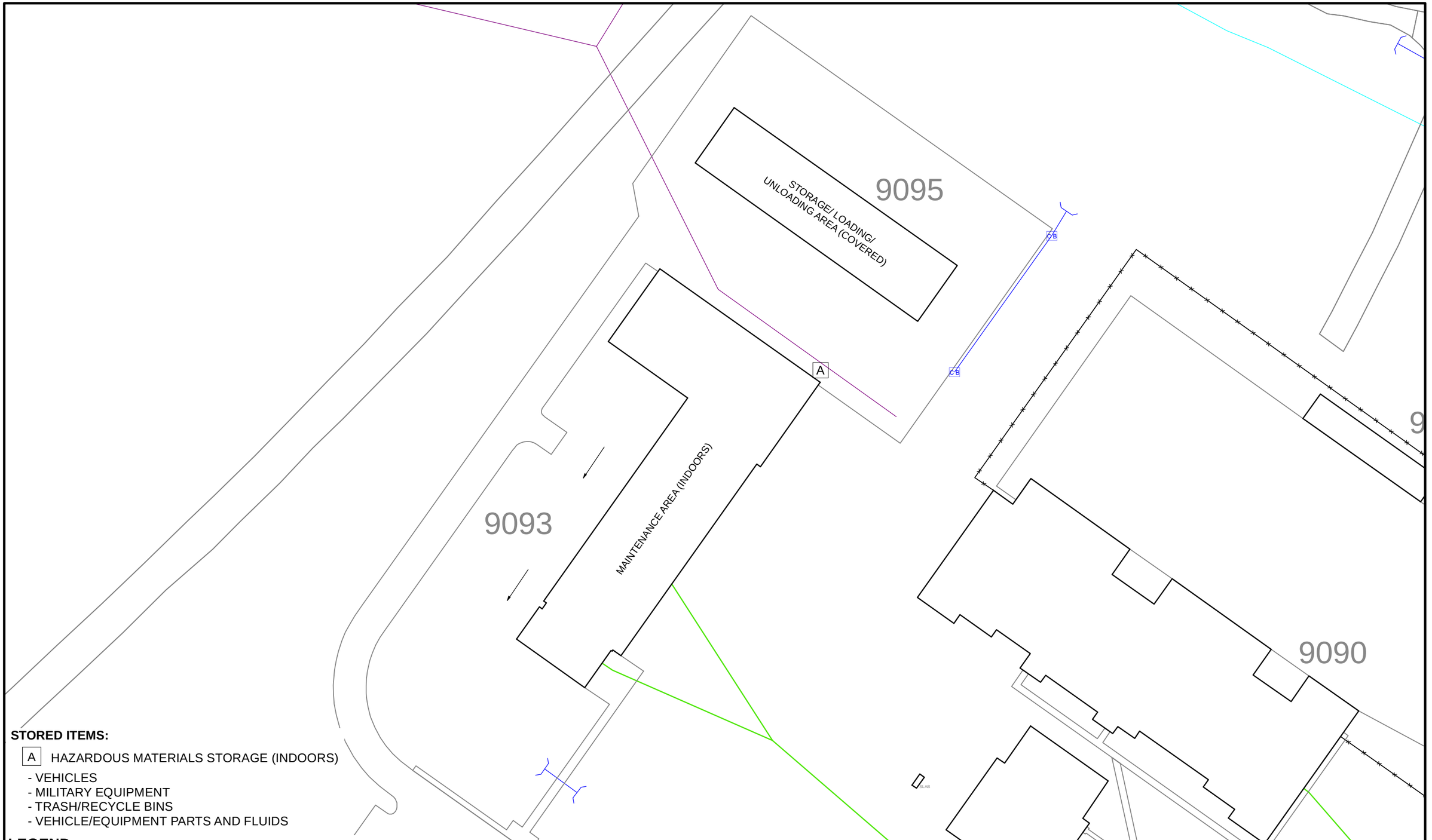

AECOM

FIGURE 2

BUILDING NO. 9093
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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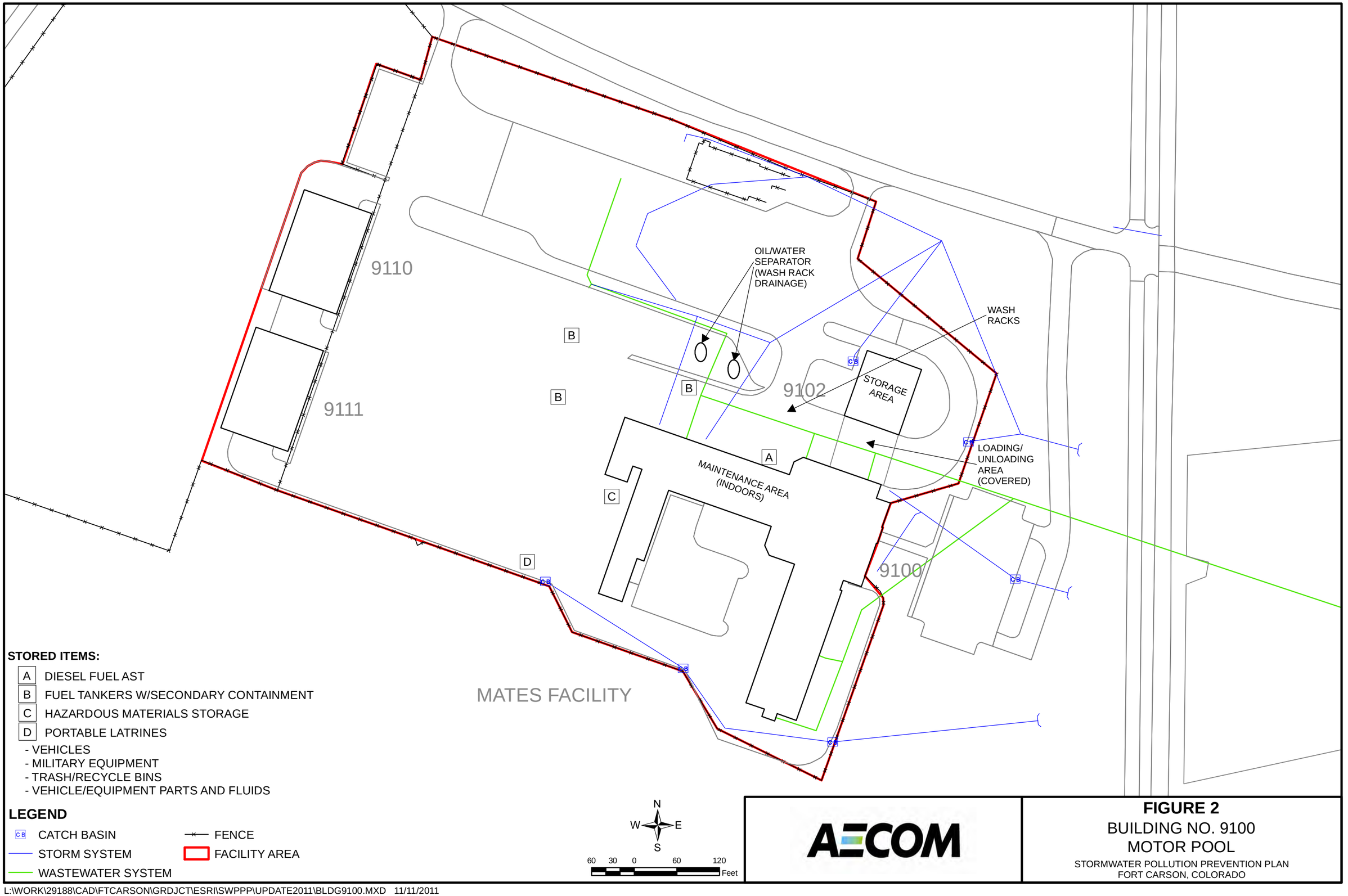

STORED ITEMS:

- A DIESEL FUEL AST
- B FUEL TANKERS W/SECONDARY CONTAINMENT
- C HAZARDOUS MATERIALS STORAGE
- D PORTABLE LATRINES
  - VEHICLES
  - MILITARY EQUIPMENT
  - TRASH/RECYCLE BINS
  - VEHICLE/EQUIPMENT PARTS AND FLUIDS

LEGEND

- C B CATCH BASIN
- STORM SYSTEM
- WASTEWATER SYSTEM
- FENCE
- FACILITY AREA

N
W E
S

60 30 0 60 120 Feet

AECOM

FIGURE 2
BUILDING NO. 9100
MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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STORED ITEMS:

- A USED OIL AST
- B DIESEL FUEL AST
- VEHICLES
- TRASH/RECYCLE BINS
- VEHICLE/EQUIPMENT PARTS AND FLUIDS

LEGEND

- STORM SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- ELEVATION CONTOUR
- FACILITY AREA

N
W E
S

40 20 0 40 80 Feet

AECOM

FIGURE 2
BUILDING NO. 9276
MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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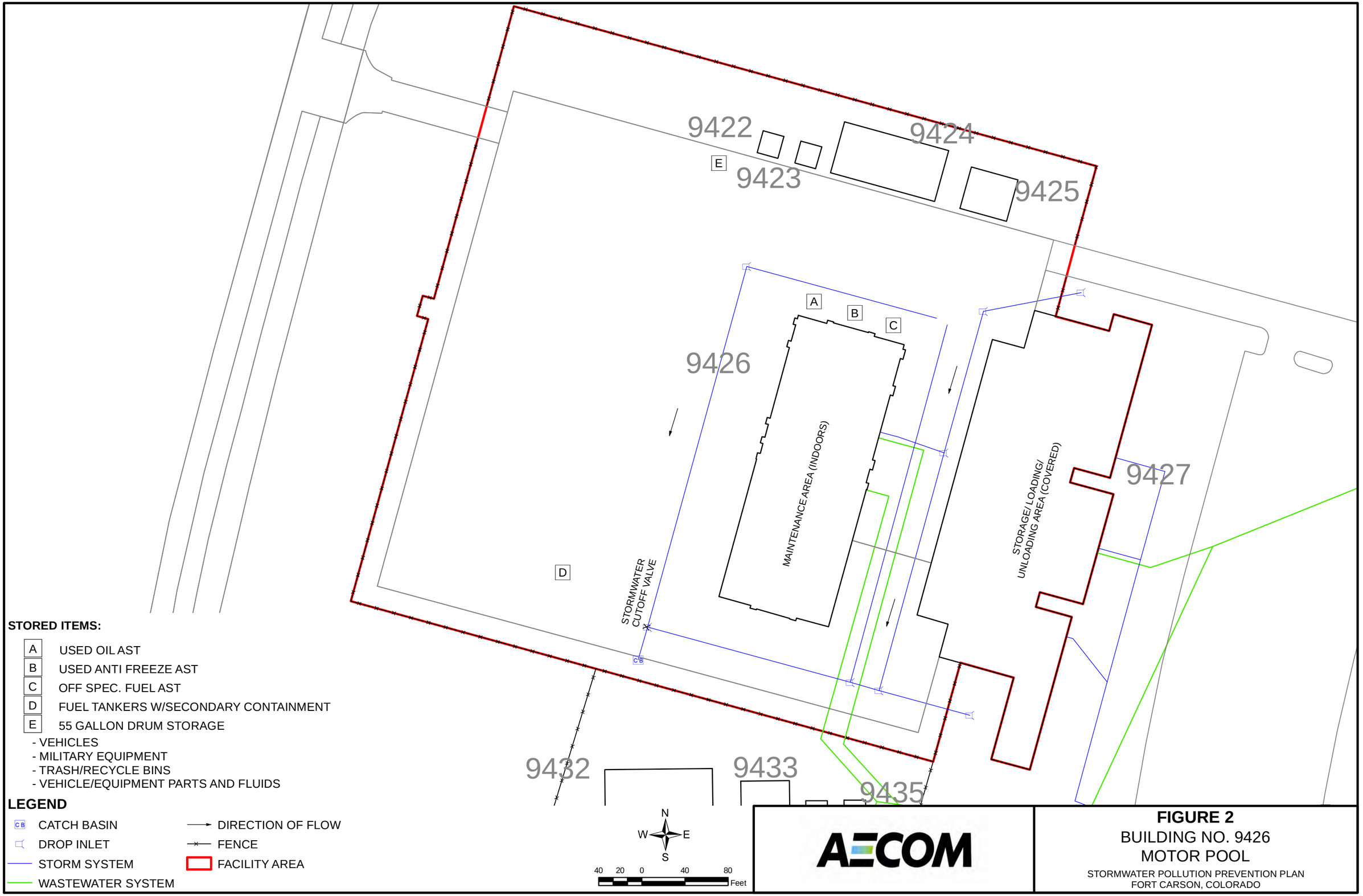

STORED ITEMS:

- A — USED OIL AST
- B — USED ANTI FREEZE AST
- C — OFF SPEC. FUEL AST
- D — FUEL TANKERS W/SECONDARY CONTAINMENT
- E — 55 GALLON DRUM STORAGE
  - VEHICLES
  - MILITARY EQUIPMENT
  - TRASH/RECYCLE BINS
  - VEHICLE/EQUIPMENT PARTS AND FLUIDS

LEGEND

- CB — CATCH BASIN
- DROP INLET
- STORM SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- FACILITY AREA

AECOM

FIGURE 2
BUILDING NO. 9426
MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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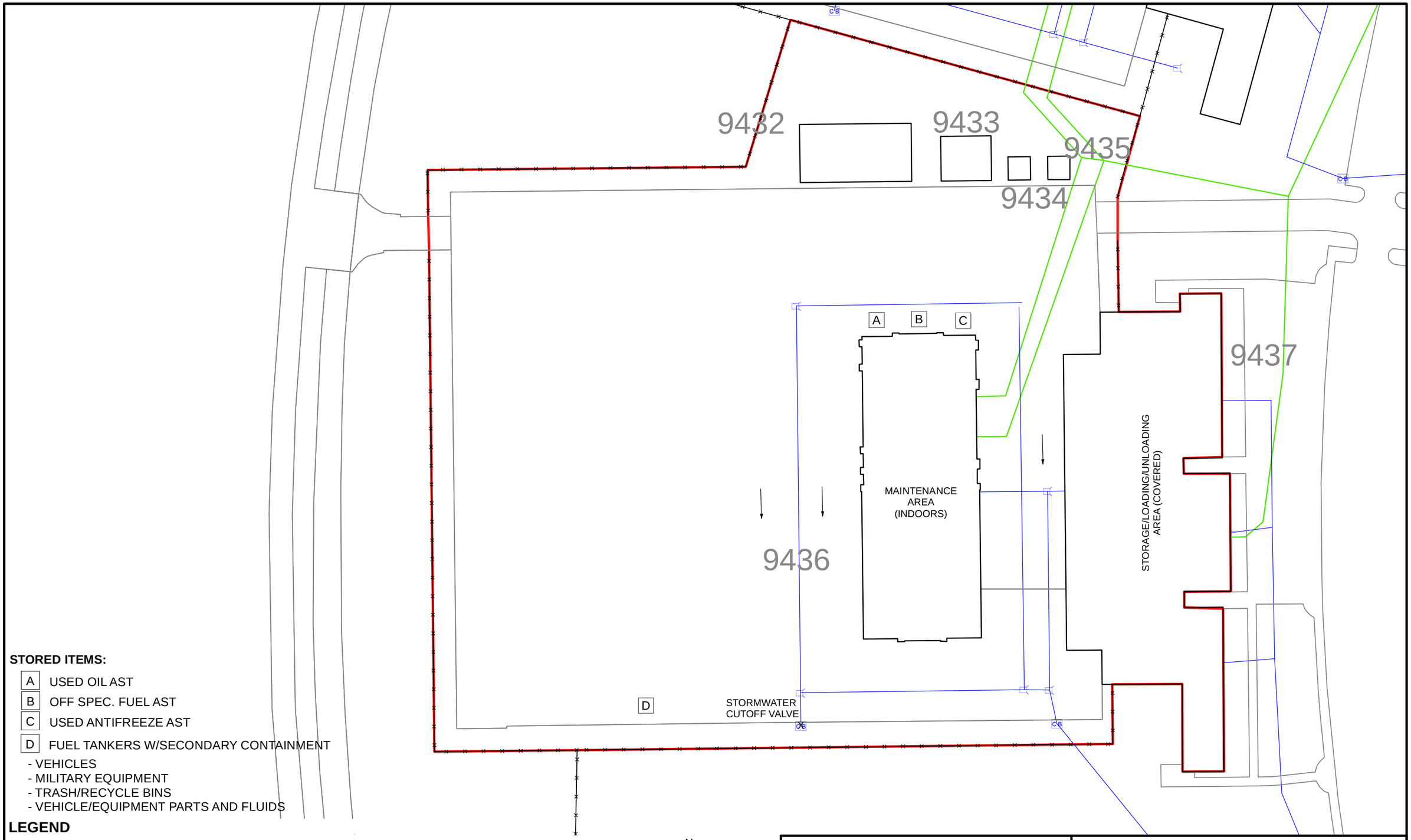

STORED ITEMS:

- A USED OIL AST
- B OFF SPEC. FUEL AST
- C USED ANTIFREEZE AST
- D FUEL TANKERS W/SECONDARY CONTAINMENT
  - VEHICLES
  - MILITARY EQUIPMENT
  - TRASH/RECYCLE BINS
  - VEHICLE/EQUIPMENT PARTS AND FLUIDS

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE
- FACILITY AREA

AECOM

FIGURE 2

BUILDING NO. 9436
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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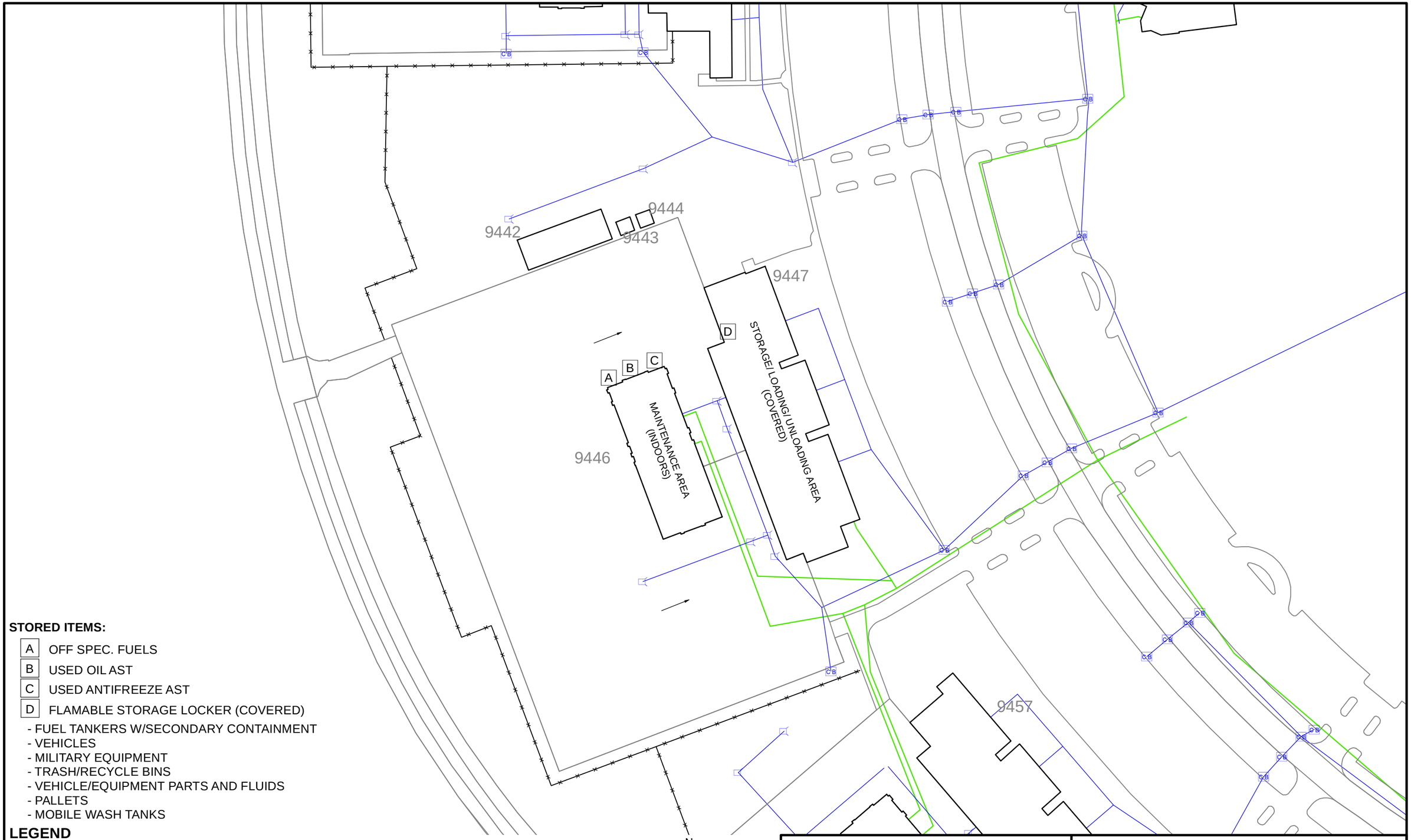

STORED ITEMS:

- A OFF SPEC. FUELS
- B USED OIL AST
- C USED ANTIFREEZE AST
- D FLAMABLE STORAGE LOCKER (COVERED)
  - FUEL TANKERS W/SECONDARY CONTAINMENT
  - VEHICLES
  - MILITARY EQUIPMENT
  - TRASH/RECYCLE BINS
  - VEHICLE/EQUIPMENT PARTS AND FLUIDS
  - PALLETS
  - MOBILE WASH TANKS

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- INDUSTRIAL WASTE SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE

AECOM

FIGURE 2
BUILDING NO. 9446
MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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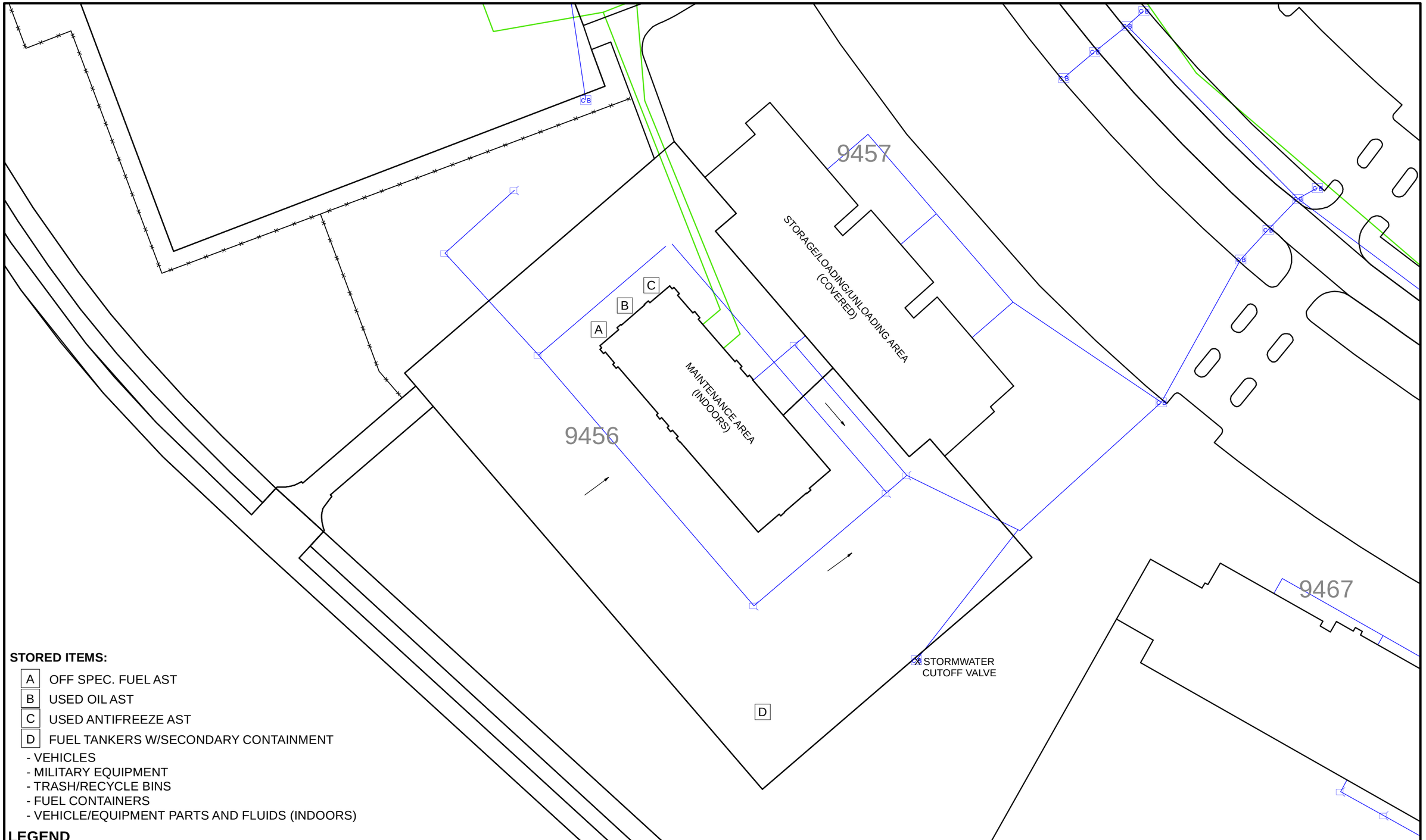

STORED ITEMS:

- A OFF SPEC. FUEL AST
- B USED OIL AST
- C USED ANTIFREEZE AST
- D FUEL TANKERS W/SECONDARY CONTAINMENT
  - VEHICLES
  - MILITARY EQUIPMENT
  - TRASH/RECYCLE BINS
  - FUEL CONTAINERS
  - VEHICLE/EQUIPMENT PARTS AND FLUIDS (INDOORS)

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE

AECOM

FIGURE 2

BUILDING NO. 9456
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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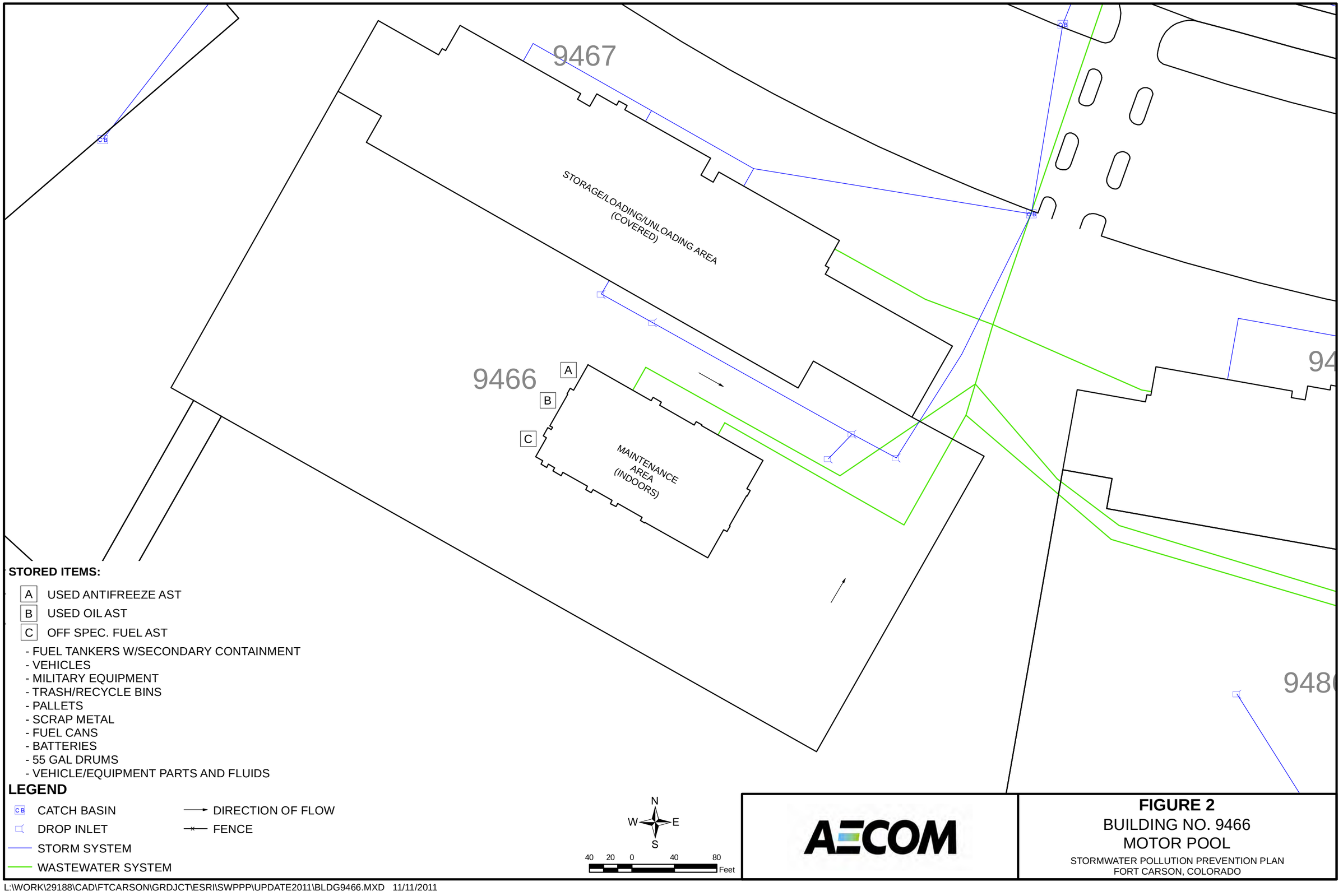

STORED ITEMS:

- A USED ANTIFREEZE AST
- B USED OIL AST
- C OFF SPEC. FUEL AST
- FUEL TANKERS W/SECONDARY CONTAINMENT
- VEHICLES
- MILITARY EQUIPMENT
- TRASH/RECYCLE BINS
- PALLETS
- SCRAP METAL
- FUEL CANS
- BATTERIES
- 55 GAL DRUMS
- VEHICLE/EQUIPMENT PARTS AND FLUIDS

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE

N
W E
S

40 20 0 40 80 Feet

AECOM

FIGURE 2
BUILDING NO. 9466
MOTOR POOL
STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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STORED ITEMS:

- A OFF SPEC. FUEL AST
- B USED OIL AST
- C USED ANTIFREEZE AST
- FUEL TANKERS W/SECONDARY CONTAINMENT
- VEHICLES
- MILITARY EQUIPMENT
- TRASH/RECYCLE BINS
- VEHICLE/EQUIPMENT PARTS AND FLUIDS

LEGEND

- CB CATCH BASIN
- DROP INLET
- STORM SYSTEM
- WASTEWATER SYSTEM
- DIRECTION OF FLOW
- FENCE

N
W E
S

40 20 0 40 80 Feet

AECOM

FIGURE 2

BUILDING NO. 9486
MOTOR POOL

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

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INSET MAP

SEE INSET MAP

ACADEMY BLVD

B-DITCH

CANTONMENT

LANDFILL 8

INTERSTATE HWY 25

LANDFILL 2

CLOVER DITCH

CENTRAL UNNAMED DITCH

STATE HWY 115

ROCK CREEK

DEADMAN CANYON

FORT CARSON BOUNDARY

LITTLE FOUNTAIN

N

W E

S

9,000 4,500 0 9,000

Feet

LITTLE TURKEY CREEK

SAND CANYON

UPPER TURKEY

CROOKED CANYON

EAST FORK

TURKEY CREEK

SAND CREEK

WEST FORK

YOUNG HOLLOW

TIMBER MOUNTAIN

RANGE 121
(OPEN DETONATION GROUND)

RED DEVIL

SULLIVAN PARK

RULE CANYON

COUNTY LINE

SULLIVAN

SALT CANYON

RED CREEK

TELLER

PIERCE GULCH

STONE CITY

DRY CREEK

WILDHORSE

BEAVER CREEK

SOUTH GATE FLATS

HORSE CREEK

Legend

- Burrowing Owl 2007
- Burrowing Owl 2008
- Fish
- Reptiles
- Marshbirds
- Leopard Frogs
- Amphibians
- FTC Boundary
- Sub Watershed Basins
- Prairie Dog Area

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AECOM

FIGURE 3

ECOLOGICAL HABITAT MAP

STORMWATER POLLUTION PREVENTION PLAN
FORT CARSON, COLORADO

Appendix C1 – Completed Inspection Forms

(On CD)

Appendix C2 – Blank Inspection Forms

Stormwater Industrial Facility Inspection Report

Instructions:

- *This inspection form is to be used for both the routine, quarterly facility inspections and the annual, comprehensive facility inspection. When used for the comprehensive facility inspection, use the annual reporting form when reporting results to the EPA.*
- *Prior to inspection, review and consider results of both visual and analytical monitoring results to identify potential pollutant hot spots.*
- *Corrective actions identified through this inspection require additional information. When corrective actions are necessary, briefly describe in the appropriate section of this report, and also complete the full form attached at the end of this report.*

General Information			
Facility Name	Insert Name		
NPDES Tracking No.	Insert Tracking No.		
Date of Inspection	Insert Date	**Start/End Time**	Insert Start/End Time
Inspector's Name(s)	Insert Name		
Inspector's Title(s)	Insert Title		
Inspector's Contact Information	Insert Phone Number and E-mail Address		
Inspector's Qualifications	Insert Qualifications or Add Reference to the SWPPP		

Weather Information

Weather at time of this inspection?
❑ Clear ❑Cloudy ❑ Rain ❑ Sleet ❑ Fog ❑ Snow ❑ High Winds
❑ Other: Temperature: F or C

Have any previously unidentified discharges of pollutants occurred since the last inspection? ❑Yes ❑No
If yes, describe: Describe

Are there any discharges occurring at the time of inspection? ❑Yes ❑No
If yes, ❑Stormwater Discharge ❑Non-stormwater Discharge
Describe: Describe the sources, and any pollutants that may be exposed to or present in these discharges. Include any control measures that may be in place.

Control Measures

- *Number the structural stormwater control measures identified in Section 3 of this facility's SWPPP on your site map and list them below (add as many control measures as are implemented on-site). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required control measures at your facility.*

	Structural Control Measure	**Control Measure is Operating Effectively?**	**If No, In Need of Maintenance, Repair, or Replacement?**	**Corrective Action Needed and/or Notes** (identify needed maintenance and repairs, or any failed control measures that need replacement)
1	Insert Control Measure Name	❑Yes ❑No	❑ Maintenance ❑ Repair ❑ Replacement	Describe Corrective Actions and/or Notes
2	Insert Control Measure Name	❑Yes ❑No	❑ Maintenance ❑ Repair ❑ Replacement	Describe Corrective Actions and/or Notes
3	Insert Control Measure Name	❑Yes ❑No	❑ Maintenance ❑ Repair ❑ Replacement	Describe Corrective Actions and/or Notes

	Structural Control Measure	Control Measure is Operating Effectively?	If No, In Need of Maintenance, Repair, or Replacement?	Corrective Action Needed and/or Notes (identify needed maintenance and repairs, or any failed control measures that need replacement)
4	Insert Control Measure Name	❑Yes ❑No	❑ Maintenance ❑ Repair ❑ Replacement	Describe Corrective Actions and/or Notes
5	Insert Control Measure Name	❑Yes ❑No	❑ Maintenance ❑ Repair ❑ Replacement	Describe Corrective Actions and/or Notes
6	Insert Control Measure Name	❑Yes ❑No	❑ Maintenance ❑ Repair ❑ Replacement	Describe Corrective Actions and/or Notes
7	Insert Control Measure Name	❑Yes ❑No	❑ Maintenance ❑ Repair ❑ Replacement	Describe Corrective Actions and/or Notes
8	Insert Control Measure Name	❑Yes ❑No	❑ Maintenance ❑ Repair ❑ Replacement	Describe Corrective Actions and/or Notes

Areas of Potential Pollutant Sources, Industrial Materials, or Activities Exposed to Stormwater

Below are some general areas that should be assessed during routine inspections. Customize this list as needed for the specific types of industrial materials or activities at your facility. In reviewing each area you should consider:

- *Industrial materials, residue, or trash that may have or could potentially come into contact with stormwater;*
- *Leaks or spills from industrial equipment, drums, tanks, and other containers;*
- *Offsite tracking of industrial or waste materials from areas of no exposure to exposed areas; and*
- *Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas.*

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and/or Notes
1	**Material loading/unloading and storage areas**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
2	**Equipment operations and maintenance areas**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
3	**Fueling areas**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
4	**Outdoor vehicle and equipment washing areas**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
5	**Waste handling and disposal areas**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
6	**Erodible areas/construction**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
7	**Non-stormwater/ illicit connections**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes

	Area/Activity	Inspected?	Controls Adequate (appropriate, effective, and operating)?	Corrective Action Needed and/or Notes
8	**Salt storage piles or pile containing salt**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
9	**Dust or material tracking from site entrance and exits**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
10	**Tracking or blowing of materials from areas of no exposure to exposed areas**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
11	**(Other)**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
12	**(Other)**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
13	**(Other)**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes
14	**(Other)**	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Actions and/or Notes

Outfalls

- *Identify the facility outfalls listed in the SWPPP and list them below. Carry a copy of the numbered site map with you during your inspections. This will insure that you are inspecting all outfalls to the facility.*
- *During the inspection look for additional, previously unidentified outfalls to the facility. Note any below and add to the site map for future addition to the SWPPP.*
- *Describe any evidence of pollutants entering the drainage system or discharging to surface waters, and the condition of and around outfalls, including flow dissipation measures to prevent scouring.*

Outfall	Inspected?	Evidence of Pollutants?	Corrective Actions Needed and/or Conditions
Insert Outfall #	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Action and/or Conditions of Outfall
Insert Outfall #	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Action and/or Conditions of Outfall
Insert Outfall #	❑Yes ❑ N/A ❑No	❑Yes ❑No	Describe Corrective Action and/or Conditions of Outfall

Outfall	Inspected?	Evidence of Pollutants?	Corrective Actions Needed and/or Conditions
Insert Outfall #	☐Yes ☐ N/A ☐No	☐Yes ☐No	Describe Corrective Action and/or Conditions of Outfall
Insert Outfall #	☐Yes ☐ N/A ☐No	☐Yes ☐No	Describe Corrective Action and/or Conditions of Outfall
Insert Outfall #	☐Yes ☐ N/A ☐No	☐Yes ☐No	Describe Corrective Action and/or Conditions of Outfall
Insert Outfall #	☐Yes ☐ N/A ☐No	☐Yes ☐No	Describe Corrective Action and/or Conditions of Outfall
Insert Outfall #	☐Yes ☐ N/A ☐No	☐Yes ☐No	Describe Corrective Action and/or Conditions of Outfall

Non-Compliance

Describe any incidents of non-compliance observed and not described above. Particular instances to inspect for include, but are not limited to; (1) Spills or leaks from industrial equipment, drums, tanks, or similar containers, and (2) evidence of or the potential for pollutants entering the drainage system.

Describe Non-compliance

Additional Control Measures

Describe any additional control measures needed to comply with the permit requirements:

Describe Additional Controls Needed

Notes

Use this space for any additional notes or observations from the inspection:

Additional Notes

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____

Signature:_____Date:_____

Corrective Actions Attachment

Complete this page for each specific condition requiring a corrective action. Copy this page for additional corrective actions or reviews.

- *Include both corrective actions that have been initiated or completed since the last annual report, and future corrective actions needed to address problems identified in this stormwater inspection. Include an update on any outstanding corrective actions that had not been completed at the time of your previous annual report.*
- *Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log of the SWPPP.*
- *Corrective actions require an update to the SWPPP within 14 calendar days following the inspection. If BMPs must be modified, or if additional BMPs are necessary, implementation must be completed before the next anticipated storm event, if practicable, but not more than 12 weeks after completion of the comprehensive site evaluation.*

1. Corrective Action # of for this reporting period

2. Is this corrective action:
   - ❑ An update on a corrective action from a previous annual report; or
   - ❑ A new corrective action?

3. Identify the condition(s) triggering the need for this review:
   - ❑ Unauthorized release or discharge
   - ❑ Numeric effluent limitation exceedance
   - ❑ Control measures inadequate to meet applicable water quality standards
   - ❑ Control measures inadequate to meet non-numeric effluent limitations
   - ❑ Control measures not properly operated or maintained
   - ❑ Change in facility operations necessitated change in control measures
   - ❑ Average benchmark value exceedance
   - ❑ Other (describe):

4. Briefly describe the nature of the problem identified:

5. Date problem identified:

6. How problem was identified:
   - ❑ Comprehensive site inspection
   - ❑ Quarterly visual assessment
   - ❑ Routine facility inspection
   - ❑ Benchmark monitoring
   - ❑ Notification by EPA or State or local authorities
   - ❑ Other (describe):

7. Description of corrective action(s) taken or to be taken to eliminate or further investigate the problem (e.g., describe modifications or repairs to control measures, analyses to be conducted, etc.) or if no modifications are needed, basis for that determination:

8. Date corrective action initiated:

9. Date correction action completed:

❑ Action not yet completed; expected date of completion

10. If corrective action not yet completed, provide the status of corrective action at the time of the comprehensive site inspection and describe any remaining steps

NPDES Permit Tracking No.:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

Annual Reporting Form

A. GENERAL INFORMATION

1. Facility Name:

2. NPDES Permit Tracking No.:

3. Facility Physical Address:

a. Street:

b. City: c. State: d. Zip Code: -

4. Lead Inspectors Name: Title:

Additional Inspectors Name(s):

5. Contact Person: Title:

Phone: - - Ext. E-mail:

6. Inspection Date: / /

B. GENERAL INSPECTION FINDINGS

1. As part of this comprehensive site inspection, did you inspect all potential pollutant sources, including areas where industrial activity may be exposed to stormwater?
☐ YES ☐ NO

If NO, describe why not:

NOTE: *Complete Section C of this form for each industrial activity area inspected and included in your SWPPP or as newly identified in B.2 or B.3 below where pollutants may be exposed to stormwater.*

2. Did this inspection identify any stormwater or non-stormwater outfalls not previously identified in your SWPPP? ☐ YES ☐ NO

If YES, for each location, describe the sources of those stormwater and non-stormwater discharges and any associated control measures in place:

NPDES Permit Tracking No.:

3. Did this inspection identify any sources of stormwater or non-stormwater discharges not previously identified in your SWPPP? ☐ YES ☐ NO

If YES, describe these sources of stormwater or non-stormwater pollutants expected to be present in these discharges, and any control measures in place:

4. Did you review stormwater monitoring data as part of this inspection to identify potential pollutant hot spots? ☐ YES ☐ NO ☐ NA, no monitoring performed

If YES, summarize the findings of that review and describe any additional inspection activities resulting from this review:

5. Describe any evidence of pollutants entering the drainage system or discharging to surface waters, and the condition of and around outfalls, including flow dissipation measures to prevent scouring:

6. Have you taken or do you plan to take any corrective actions, as specified in Part 3 of the permit, since your last annual report submission (or since you received authorization to discharge under this permit if this is your first annual report), including any corrective actions identified as a result of this annual comprehensive site inspection?
☐ YES ☐ NO

If YES, how many conditions requiring review for correction action as specified in Parts 3.1 and 3.2 were addressed by these corrective actions? ☐☐

NOTE: *Complete the attached Corrective Action Form (Section D) for each condition identified, including any conditions identified as a result of this comprehensive stormwater inspection.*

NPDES Permit Tracking No.:

C. INDUSTRIAL ACTIVITY AREA SPECIFIC FINDINGS

Complete one block for each industrial activity area where pollutants may be exposed to stormwater. Copy this page for additional industrial activity areas.

In reviewing each area, you should consider:

- Industrial materials, residue, or trash that may have or could come into contact with stormwater;
- Leaks or spills from industrial equipment, drums, tanks, and other containers;
- Offsite tracking of industrial or waste materials from areas of no exposure to exposed areas; and
- Tracking or blowing of raw, final, or waste materials from areas of no exposure to exposed areas.

INDUSTRIAL ACTIVITY AREA _____:

1. Brief Description**:**

2. Are any control measures in need of maintenance or repair? ☐ YES ☐ NO

3. Have any control measures failed and require replacement? ☐ YES ☐ NO

4. Are any additional/revised control measures necessary in this area? ☐ YES ☐ NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA _____:

1. Brief Description:

2. Are any control measures in need of maintenance or repair? ☐ YES ☐ NO

3. Have any control measures failed and require replacement? ☐ YES ☐ NO

4. Are any additional/revised c necessary in this area? ☐ YES ☐ NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA _____:

Brief Description:

2. Are any control measures in need of maintenance or repair? ☐ YES ☐ NO

3. Have any control measures failed and require replacement? ☐ YES ☐ NO

4. Are any additional/revised BMPs necessary in this area? ☐ YES ☐ NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

NPDES Permit Tracking No.: | | | | | | | | | | |

NOTE: *Copy this page and attach additional pages as necessary*

INDUSTRIAL ACTIVITY AREA ______:

1. Brief Description:

2. Are any control measures in need of maintenance or repair? ☐ YES ☐ NO
3. Have any control measures failed and require replacement? ☐ YES ☐ NO
4. Are any additional/revised BMPs necessary in this area? ☐ YES ☐ NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA ______:

1. Brief Description:

2. Are any control measures in need of maintenance or repair? ☐ YES ☐ NO
3. Have any control measures failed and require replacement? ☐ YES ☐ NO
4. Are any additional/revised BMPs necessary in this area? ☐ YES ☐ NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

INDUSTRIAL ACTIVITY AREA ______:

1. Brief Description:

2. Are any control measures in need of maintenance or repair? ☐ YES ☐ NO
3. Have any control measures failed and require replacement? ☐ YES ☐ NO
4. Are any additional/revised BMPs necessary in this area? ☐ YES ☐ NO

If YES to any of these three questions, provide a description of the problem: (Any necessary corrective actions should be described on the attached Corrective Action Form)

NPDES Permit Tracking No.:

D. CORRECTIVE ACTIONS

Complete this page for each specific condition requiring a corrective action or a review determining that no corrective action is needed. Copy this page for additional corrective actions or reviews.

Include both corrective actions that have been initiated or completed since the last annual report, and future corrective actions needed to address problems identified in this comprehensive stormwater inspection. Include an update on any outstanding corrective actions that had not been completed at the time of your previous annual report.

1. Corrective Action # ☐☐ of ☐☐ for this reporting period.

2. Is this corrective action:

- ☐ An update on a corrective action from a previous annual report; or
- ☐ A new corrective action?

3. Identify the condition(s) triggering the need for this review:

- ☐ Unauthorized release or discharge
- ☐ Numeric effluent limitation exceedance
- ☐ Control measures inadequate to meet applicable water quality standards
- ☐ Control measures inadequate to meet non-numeric effluent limitations
- ☐ Control measures not properly operated or maintained
- ☐ Change in facility operations necessitated change in control measures
- ☐ Average benchmark value exceedance
- ☐ Other (describe): _____

4. Briefly describe the nature of the problem identified:

5. Date problem identified: ☐☐/☐☐/☐☐☐☐

6. How problem was identified:

- ☐ Comprehensive site inspection
- ☐ Quarterly visual assessment
- ☐ Routine facility inspection
- ☐ Benchmark monitoring
- ☐ Notification by EPA or State or local authorities
- ☐ Other (describe): _____

7. Description of corrective action(s) taken or to be taken to eliminate or further investigate the problem (e.g., describe modifications or repairs to control measures, analyses to be conducted, etc.) or if no modifications are needed, basis for that determination:

8. Did/will this corrective action require modification of your SWPPP? ☐ YES ☐ NO

9. Date corrective action initiated: ☐☐/☐☐/☐☐☐☐

10. Date correction action completed: ☐☐/☐☐/☐☐☐☐ or expected to be completed: ☐☐/☐☐/☐☐☐☐

11. If corrective action not yet completed, provide the status of corrective action at the time of the comprehensive site inspection and describe any remaining steps (including timeframes associated with each step) necessary to complete corrective action:

NPDES Permit Tracking No.:

E. ANNUAL REPORT CERTIFICATION

1. Compliance Certification

Do you certify that your annual inspection has met the requirements of Part 4.2 of the permit, and that, based upon the results of this inspection, to the best of your knowledge, you are in compliance with the permit? ☐ YES ☐ NO

If NO, summarize why you are not in compliance with the permit:

2. Annual Report Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Representative Printed Name: Title:

Signature: Date Signed:

MSGP Quarterly Visual Assessment Form

(Complete a separate form for each outfall you assess)

Name of Facility: Name of Facility NPDES Tracking No. Insert Tracking No.

Outfall Name: Name "Substantially Identical Outfall"? ☐ No ☐ Yes (identify substantially identical outfalls):

Person(s)/Title(s) collecting sample: Name/Title

Person(s)/Title(s) examining sample: Name/Title

Date & Time Discharge Began: Enter date and time

Date & Time Sample Collected: Enter date and time

Date & Time Sample Examined: Enter date and time

Substitute Sample? ☐ No ☐ Yes (identify quarter/year when sample was originally scheduled to be collected):

Nature of Discharge: ☐ Rainfall ☐ Snowmelt

If rainfall: Rainfall Amount: No of inches inches

Previous Storm Ended > 72 hours Before Start of This Storm? ☐ Yes ☐ No* (explain):

Parameter

Color ☐ None ☐ Other (describe):

Odor ☐ None ☐ Musty ☐ Sewage ☐ Sulfur ☐ Sour ☐ Petroleum/Gas _____
☐ Solvents ☐ Other (describe):

Clarity ☐ Clear ☐ Slightly Cloudy ☐ Cloudy ☐ Opaque ☐ Other

Floating Solids ☐ No ☐ Yes (describe):

Settled Solids** ☐ No ☐ Yes (describe):

Suspended Solids ☐ No ☐ Yes (describe):

Foam (gently shake sample) ☐ No ☐ Yes (describe):

Oil Sheen ☐ None ☐ Flecks ☐ Globs ☐ Sheen ☐ Slick
☐ Other (describe):

Other Obvious Indicators of Stormwater Pollution ☐ No ☐ Yes (describe):

* The 72-hour interval can be waived when the previous storm did not yield a measurable discharge or if you are able to document (attach applicable documentation) that less than a 72-hour interval is representative of local storm events during the sampling period.

** Observe for settled solids after allowing the sample to sit for approximately one-half hour.

Detail any concerns, additional comments, descriptions of pictures taken, and any corrective actions taken below (attach additional sheets as necessary). Insert details

Certification by Facility Responsible Official (Refer to MSGP Subpart 11 Appendix B for Signatory Requirements)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name: B. Title:

C. Signature: D. Date Signed:

Directorate of Public Works- Environmental Division (DPW-ED)
Environmental Compliance Assessment Checklist

	Standard	Assessor Notes (SCS) (Check Notes Block if continued)	Photo	Notes	YES	NO	NA	EPAS CODE
1) Administration								
1.1	Are the Environmental Protection Officer (EPO) and Environmental Protection Noncommissioned Officer (EPNCO) appointed on written orders (other official document if civilian/contractor)? AR 200-1, para 1-27a(15); AR 200-1, para 1-29c(5); AR 200-1, 1-32e-f; AR 200-1, para 1-33d							O7.30.1.A O5.001.01.FTCR
1.2	Have the EPO and EPNCO attended the 40 Hour EPO Certification Course? FC Reg. 200-1, Ch 1-2.b. (3)							O5.001.02.FTCR
1.3	Was the unit/organization represented at the last monthly EPO meeting? FC Reg. 200-1							O5.001.03.FTCR
1.4	Does the unit/organization have a written Environmental SOP? FC Reg. 200-1							O5.001.04.FTCR
1.5	Does the unit/organization have FC Regulation 200-1, Environmental Protection and Enhancement? FC Reg. 200-1							O5.001.05.FTCR
1.6	Has the unit/organization received Resource Conservation and Recovery Act (RCRA) awareness training? AR 200-1, para 1-27a(14); AR 200-1, para 1-32b,c,e; AR 200-1, para 1-33b,d							HW.60.1.US
1.7	Have all Soldiers, civilians and contractors received Sustainability Environmental Management System (SEMS) awareness training within 120 days of their arrival or employment dates on Fort Carson? Official Memorandum signed by the CG and GC dated 18 Mar 2008, Subject: Sustainability and Environmental Management System (SEMS) Awareness Training							
1.8	Have corrective actions been implemented within five working days of last compliance inspection? FC Reg. 200-1, Ch 12-3.b. (4)							O5.001.06.FTCR
1.9	Have all hazardous material purchased by the unit/organization with the Government Purchase Card (GPC), or other method, been approved in writing by the Environmental Division? FC Reg. 200-1, Ch 15-3.a. (1)							O5.001.08.FTCR
1.10	Does the unit/organization have the Open Burn Flyer posted and are individuals aware of the restrictions? BMP							Best Management Practice
2) Energy								
2.1	Does the unit/organization have an Energy Conservation Officer (ECO) appointed on written orders (other official document if civilian/contractor)? FC Reg. 200-1, Ch 11-2.b. (1)							O8.002.01.FTCR
2.2	Is the ECO performing and documenting monthly inspections of assigned facilities? FC Reg. 200-1, Ch 11-2.f. (5)							O8.002.05.FTCR
2.3	Does the unit/organization have a Building Energy Monitor (BEM) appointed on written orders? FC Reg. 200-1, Ch 11-2.b. (1)							O8.002.01.FTCR
2.4	Is the BEM performing and documenting weekly inspections of assigned buildings? FC Reg. 200-1, Ch 11-2.g. (1)							O8.002.04.FTCR
2.5	Does the unit/organization have a written Energy SOP or an Energy Annex to the Environmental SOP? FC Reg. 200-1, Ch 11-2.f. (4)							O8.002.02.FTCR
2.6	Does the unit/organization have a Building Energy Monitors Handbook? FC Reg. 200-1, Ch 11-2.g. (2)							O8.002.03.FTCR
2.7	Does the unit/organization follow the Building Energy Monitors Handbook inspection checklist? FC Reg. 200-1, Ch 11-2.g. (2)							O8.002.03.FTCR
2.8	Does unit/organization have and follow current heating and cooling policy guidance? Current Energy Efficiency Measures Memorandum							O8.002.06.FTCR
2.9	Does unit/organization have and follow current water restriction guidance? Current Water Restriction Memorandum							O8.002.07.FTCR
3) Recycle-Refuse								
3.1	Are procedures in place to recycle all forms of paper (i.e., white, colored, computer, and shredded), cardboard, aluminum cans, tin cans, newspaper, magazines, glass and plastic? 40 CFR 246.202-1 [Reviewed March 2000]							SO.025.04.US

Directorate of Public Works- Environmental Division (DPW-ED)
Environmental Compliance Assessment Checklist

	Standard	Assessor Notes (SCS) (Check Notes Block if continued)	Photo	Notes	YES	NO	NA	EPAS CODE
3.2	Are procedures in place for proper turn-in of scrap metals (i.e., aluminum, heavy), construction debris, wooden pallets, and used tires? 40 CFR 243.100(b), 243.100(i), and 243.200-1 [Revised January 2000, Reviewed March 2000, Revised January 2004]							SO.010.01.US
3.3	Is the unit/organization using recycle containers for their intended purpose? (40 CFR 266.20 through 266.23) [Added April 2003]							SO.025.05.US
3.4	Is the unit/organization using refuse containers for their intended purpose? 40 CFR 243.100(b), 243.100(i), and 243.204-1 [Revised January 2000, Reviewed March 2000, Revised January 2004]							SO.010.06.US
4) Material Management								
4.1	Does the unit/organization have Material Safety Data Sheets (MSDS) on file for each hazardous chemical stored and used? 29 CFR 1910.1200(b)(3)(ii), 1910.1200(b)(4)(ii), 1910.1200(b)(6), 1910.1200(g)(1), and 1910.1200(g)(8)							HM.001.02.US
4.2	Are all hazardous materials being stored and segregated IAW manufacturer instructions (i.e., container label, MSDS, etc.) to prevent reaction, contamination, spoilage or freezing? 29 CFR 1910.176©							HM.001.04.US
4.3	Are all containers properly/clearly labeled as to their contents? 29 CFR 1910.1200(b)(3)(i), 1910.1200(b)(4)(i), 1910.1200(b)(5), and 1910.1200(f)(5) through 1910.1200(f)(7)							HM.001.03.US
4.4	Are all containers in good condition (i.e., not rusted or leaking, or not shippable due to excessive dents or damage, etc.)? 29 CFR 1910.176©							HM.001.04.US
4.5	Are all containers protected from the elements (i.e. rain, snow etc.)? 29 CFR 1910.176 ©							HM.001.04.US
4.6	Are all containers closed when not in use to preclude the possibility of contamination or spilling? 29 CFR 1910.176©							HM.001.04.US
4.7	Are all flammables stored in a flammable storage locker? [Revised April 1995]							HM.035.01.US
4.8	Are all spent fluorescent bulbs turned-in properly to the Hazardous Waste Storage Facility (HWSF) within 24 hours? 40 CFR 273.33(d) [Added October 1999, Reviewed March 2000]							HW.380.06.US
4.9	Are all aerosol cans properly disposed of through Hazardous Material Control Center (HMCC) or HWSF? 40 CFR 273.33(d) [Added October 1999, Reviewed March 2000]							HW.380.06.US
4.10	Are all batteries except lead acid turned-in to the HWSF? 40 CFR 273.33(a)(1) and 273.33(a)(2) [Revised March 2000]							HW.380.01.US
4.11	Is there any unknown waste accumulating? FC Reg. 200 1, Ch 6-4.1.d.(1)©							HW.003.06.FTCR
4.12	Does the unit/organization cover all solvents/paints with a lid if the operator is not currently using the product or does not anticipate using the product within a few minutes? FC Reg. 200-1							AE.001.03.FTCR
4.13	Are solvent parts cleaner circulating pumps shut off and lids closed when not in use? FC Reg. 200-1							AE.001.03.FTCR
4.14	Is the unit/organization storing and/or using only authorized pesticides? 40 CFR 171.4, 171.5, 171.9 [Revised October 2001]							PM.005.01.US
4.15	Has the unit/organization received the safety training prior to using authorized pesticides? 40 CFR 170.204(a) and 170.230 [Added April 2000, Reviewed September 2000]							PM.020.26.US
4.16	Does the unit/organization store its cylinders in upright positions, with chains around the body (not the neck) and in separate areas (i.e., empty/full oxygen cylinders must be at a minimum of 20 feet away from flammable gas cylinders)? 29 CFR 1910.101(b) [Revised Citation October 2003]							HM.045.01.US
4.17	Does the unit/organization subscribe to the approved "Red Rag" program for shop towel usage? LOI Dated 11 Sept 2006, Para. 5-d							HM.001.09.FTCR
4.18	Is the unit/organization storing solvent laden rags in a sealed metal container to prevent volatile organic compound (VOC) release? LOI Dated 9 May 2006, Para.							HM.001.09.FTCR

Directorate of Public Works- Environmental Division (DPW-ED)
Environmental Compliance Assessment Checklist

	Standard	Assessor Notes (SCS) (Check Notes Block if continued)	Photo	Notes	YES	NO	NA	EPAS CODE
4.19	Does unit/organization have accountability of their shop towels at all times whether they are clean or dirty. LOI Dated 9 May 2006, Para. 5-d							HM.001.09.FTCR
4.20	Does the unit/organization have a current copy of the hazardous substance and POL spill posters displayed in unit area? FC Reg. 200-1, Ch 9-3.e.							HM.002.01.FTCR
4.21	Does the unit/organization have the recommended spill control materials on hand? BMP							HM.020.01.US
4.22	Are all drip pans maintained properly?							
4.23	Have all required hazardous material or waste spills and/or releases been reported? 40 CFR 302.8 [Revised April 1999, Revised March 2001]							HM.020.03.US
4.24	Have all hazardous material or waste spills and/or releases been sufficiently cleaned? FC Reg. 200-1, Ch 9 3.e.							HM.002.04.FTCR
4.25	Does the unit/organization have its flammable gases stored in areas away from open flames, areas where electrical sparks are generated, or where other sources of ignition may be present? 29 CFR 1910.101(b) [Revised Citation October 2003]							HM.045.01.US
4.26	Does the unit/organization maintain clearly marked labels on the compressed gas cylinders? 29 CFR 1910.101(b) [Revised Citation October 2003]							HM.045.01.US
4.27	Are unit/organizational member that are engaged in working with refrigerant compounds EPA certified and is the recovery/recyling equipment registered?							
4.28	Do the refrigerant cylinders have the required warning label attached to it? 29 CFR 1910.101(b) [Revised Citation October 2003]							HM.045.01.US
4.29	Are refrigerant recovery cylinders the proper standard colors (military policy is orange body/yellow top- EPA colors are grey body/yellow top)? 40 CFR 82							HM.004.02.FTCR
4.30	Is unit/organization in compliance with the DoD Class I and HCFC-22 turn-in requirements?							
4.31	Are all petroleum contaminated soil and dry sweep managed properly? FC Reg. 200-1, Ch 15-3.a. (10) (11)							SO.001.01.FTCR
4.32	Is used grease accumulated and turned-in to HWSF? FC Reg. 200-1, Ch 15-3.a. (4)							SO.001.02.FTCR
4.33	Are floor and storm drain covers secured in place? FC Reg. 200-1							WA.001.03.FTCR
4.34	Does the unit/organization have procedures in place to ensure no hazardous materials or pollutants are discharged into floor and storm drains? FC Reg. 200-1							PO.20.01.US
4.35	Are floor and storm drains free of excessive dirt, trash and debris? FC Reg. 200-1							WA.001.04.FTCR
4.36	Are all used oil filters properly drained and turned-in? Title V, Condition 31.3							AE.002.05.FTCR
4.37	Are all aerosol cans properly disposed of through HMCC or HWSF? 40 CFR 273.33(d) [Added October 1999, Reviewed March 2000]							HW.380.06.US
4.38	Does the unit/organization have a copy of their last Hazardous Material Inventory for review? (CFR 29-22-107) [Revised March 2002]							HM.030.01.CO
5) Storage Tanks (*AST, ^UST)								
5.1*	Are tank visual records up-to-date and maintained on an approved State form? 40 CFR 262.34(a)(1)(ii), 265.202, 265.1090(a), 265.1090(b), and 265.1090(e) through 265.1090(i) [Revised December 1997]							ST.105.20.US
5.2*	Are ullage records up-to-date and maintained on an approved State form? 40 CFR 262.34(a)(1)(ii), 265.202, 265.1090(a), 265.1090(b), and 265.1090(e) through 265.1090(i) [Revised December 1997]							ST.105.20.US
5.3*^	Does unit/organization have up-to-date aboveground storage tank (AST) maintenance and repair records? 40 CFR 280.10(c), 280.34(b), 280.34(c), 280.45, and 280.74 [Revised March 1995, Revised March 2000]							ST.090.02.US
5.4*	Is the tank's leak detection system operational? 40 CFR 280.10(c), 280.34(b), 280.34(c), 280.45, and 280.74 [Revised March 1995, Revised March 2000]							ST.090.02.US
5.5*^	Is tank properly labeled? 29 CFR 1910.1200(b)(3)(i), 1910.1200(b)(4)(i), 1910.1200(b)(5), and 1910.1200(f)(5) through 1910.1200(f)(7)							HM.001.03.US
5.6*	Is unit/organization performing and documenting daily inspections for AST's? FC Reg 200-1, ch 13-3c, (1) (d)							PO.001.03.FTCR

Directorate of Public Works- Environmental Division (DPW-ED)
Environmental Compliance Assessment Checklist

	Standard	Assessor Notes (SCS) (Check Notes Block if continued)	Photo	Notes	YES	NO	NA	EPAS CODE
5.7*	Does the unit/organization have a current copy of the Spill Prevention, Control and Countermeasures Plan (SPCC)? 40 CFR 112.1(b), 112.1(d), and 112.3(e) [Revised July 2002]							PO.005.06.US
5.8*	Are all mobile facilities inspected for leaks daily? FC Reg. 200-1, Ch 13-3.a. (3) (a)							ST.002.01.FTCR
5.9*	Are all mobile facilities properly positioned and bermed to prevent ground or water contamination in the event of a leak? FC Reg. 200-1, Ch 9-3.d. (2)							ST.002.02.FTCR
5.10^	Is unit/organization monitoring automatic gauging system and/or manually gauging Underground Storage Tank (UST) daily and documenting gains and losses? 40 CFR 280.10(c), 280.34(b), 280.34(c), 280.45, and 280.74 [Revised March 1995, Revised March 2000]							ST.090.02.US
5.11^	Is the tank's (UST) leak detection system operational? 40 CFR 280.10(c), 280.10(d), 280.41, 280.43, and 280.44 [Revised March 2000]							ST.065.01.US
6) Wash Rack								
6.1	Is equipment being washed in authorized areas only? FC Reg. 200-1							WA.001.01.FTCR
6.2	Is the wash rack well maintained and free of excessive dirt, trash and debris? FC Reg. 200-1							WA.001.02.FTCR
6.3	Are floor and storm drain covers secured in place? FC Reg. 200-1							WA.001.03.FTCR
6.4	Are floor and storm drains free of excessive dirt, trash and debris? FC Reg. 200-1							WA.001.04.FTCR
6.5	Does the unit/organization have procedures in place to ensure no hazardous materials or pollutants are discharged into floor and storm drains? FC Reg. 200-1							PO.20.01.US
6.6	Are all hoses equipped with a positive shut off nozzle? FC Reg. 200-1							WA.001.06.FTCR
7) Hazardous Waste Management- Satellite Accumulation Points (SAP)								
7.1	Does each Satellite Accumulation Point (SAP) have a Manager (SAPM) and an alternate appointed on written orders? FC Reg. 200-1, Ch 6-4.1.e. (3)							HW.001.01.FTCR
7.2	Are the unit/organization SAPM and alternate current on their required certification training? FC Reg. 200-1, Ch 6-4.1.e. (4)							HW.001.02.FTCR
7.3	Have all wastes stored in the SAP been identified in the logbook? FC Reg. 200-1							HW.002.01.FTCR
7.4	Have all containers been marked as to their contents utilizing such words as spent, used or off-spec? FC Reg. 200-1, Ch 6-4.1.c. (2)							HW.002.02.FTCR
7.5	Are the words “Hazardous Waste Storage Area” clearly marked on the SAP container? FC Reg. 200-1, Ch 6-4.1.e. (11)							HW.003.01.FTCR
7.6	Are all containers closed except when waste is being added or removed? 40 CFR 262.34(a)(1)(i) and 265.173 [Reviewed October 2001, Revised October 2005]							HW.070.04.TEAM
7.7	Are wastes within the SAP segregated based on compatibility? FC Reg. 200-1, Ch 6-4.1.c. (1)							HW.002.04.FTCR
7.8	Do the full containers have sufficient ullage or airspace to allow for expansion of their contents? FC Reg. 200-1, Ch 6-4.1.c. (5)							HW.002.05.FTCR
7.9	Is the total amount of waste stored in the SAP less than 55 gallons or 1 quart if acute? FC Reg. 200-1, Ch 6-4.1.e. (12)							HW.002.06.FTCR
7.10	Have weekly inspections of the SAP been performed and documented? FC Reg. 200-1, Ch 6-4.1.e. (6)							HW.080.03.TEAM
7.11	Have all deficiencies identified during weekly inspections been annotated in the logbook to include date, time and corrective actions? FC Reg. 200-1, Ch 6-4.1. e. (6)							HW.080.03.TEAM
7.12	Is documentation (i.e., MSDS, lab analysis, or other manufacturer information) immediately available pertaining to all waste being stored in the SAP? FC Reg. 200-1							HW.002.09.FTCR
7.13	Is all accumulated waste in serviceable, non-leaking containers? FC Reg. 200-1, Ch 6-4.1.c. (4)							HW.002.10.FTCR
7.14	Are the SAP doors, lids, and hinges operable? FC Reg. 200-1							HW.003.02.FTCR
7.15	Does the SAP provide adequate containment for stored waste? HWMP, Ch 6.1							HW.003.03.FTCR
7.16	Is the SAP containment sump clean and free of excessive dirt and debris? 40 CFR 264.175 Para b-5							HW.003.04.FTCR

Directorate of Public Works- Environmental Division (DPW-ED)
Environmental Compliance Assessment Checklist

	Standard	Assessor Notes (SCS) (Check Notes Block if continued)	Photo	Notes	YES	NO	NA	EPAS CODE
7.17	Does the SAP provide security for its contents and is access limited to trained and certified personnel only? FC Reg. 200-1, Ch 6-4.1.e. (8)							
7.18	Does the unit/organization have any unknown waste accumulating? FC Reg. 200-1, Ch 6-4.1(d) 1©							HW.003.06.FTCR
7.19	Is the: Telephone number for the Fort Carson Fire Department (911 for emergencies); Spill response procedures from the Installation Spill Contingency Plan (ISCP); Location of fire extinguishers and spill response material, posted adjacent to the telephone in the SAPM's office. FC Reg. 200-1, Ch 12-7(b) 19(a-c)							HW.004.01.FTCR
7.20	Does the unit/organization have a current copy of the LQG contingency plan? 40 CFR 262.34(a)(4) and 265.50 through 265.54 [Reviewed October 2001]							HW.065.01.US
7.21	Are spill response materials and a fire extinguisher located near the SAP? FC Reg. 200-1, Ch 6-4.1.e. (13)©							HW.080.04.US

Item #	Assessor Notes (cont.)

Appendix D – ICRMP

1.0 EXECUTIVE SUMMARY

Purpose

This Integrated Cultural Resources Management Plan (ICRMP) provides guidance and procedures to enable the 7th Infantry Division (ID) and Fort Carson to meet its legal responsibilities at Fort Carson and Pinon Canyon Maneuver Site (PCMS) for identification, evaluation, and protection of cultural resources while causing the least disturbance to the military mission. The ICRMP integrates legal requirements for cultural resources preservation into the everyday operation of the 7th ID and Fort Carson military mission and supporting activities. The military mission of the 7th ID and Fort Carson is to train, mobilize, deploy, and sustain combat-ready, multi-component integrated forces.

Scope

Cultural resources management on Fort Carson and the PCMS encompasses conservation of resources of significance to the history or prehistory of the United States or of traditional, religious, or cultural importance to Native Americans. The 7th ID and Fort Carson manages cultural resources associated with all major prehistoric and historic cultural periods recognized on the Great Plains and Rocky Mountains.

This plan is the implementing document for the 7th ID and Fort Carson cultural resources management program during 2002-2006. It outlines procedures for consultation with the Colorado State Historic Preservation Office (Colorado SHPO), the Advisory Council on Historic Preservation (Advisory Council), Native American tribes, and other partners in cultural resources management. Army requirements relating to development and approval of ICRMPs are outlined in Army Regulation (AR) 200-4, *Cultural Resources Management*. This ICRMP is an integral part of the 7th ID and Fort Carson Master Plan and the *Directorate of Environmental Compliance and Management Strategic Plan, FY 2001 – FY2005* (Directorate of Environmental Compliance and Management (DECAM) 2001a).

As a component of the *Directorate of Environmental Compliance and Management Strategic Plan, FY 2001 – FY2005*, the overall strategic goal of this ICRMP is to conserve and protect cultural resources consistent with the military mission for present and future generations. The ICRMP establishes the following objectives toward accomplishment of this goal.

- Comply with federal and state laws and regulations governing the treatment of cultural resources while causing the least disturbance to the military mission.
- Conduct maneuver damage assessments and after action reviews and report to the chain of command.
- Protect National Register-eligible or potentially eligible resources by fencing, monitoring, and employing other site protection mechanisms.
- Evaluate Fort Carson actions in accordance with NHPA and NEPA to minimize impacts to significant cultural resources.
- Implement cultural resource mitigation and data recovery projects in compliance with applicable laws and regulations balanced with training mission requirements.
- Implement a *cultural landscape* planning approach to cultural resources management that recognizes the complexity of the human cultural interaction with the natural terrain through time.
- Inventory and evaluate cultural resources for eligibility to the National Register of Historic Places

(National Register).
- Streamline consultation procedures and focus on significant cultural resources as opposed to those of little or no National Register potential.
- Participate in government-to-government consultations with Native American tribes.
- Provide guidelines for the preservation, stabilization, rehabilitation, repair, and maintenance of historic properties.
- Enforce state and federal laws that prohibit vandalism of cultural resources through law enforcement, monitoring, and public awareness.
- Curate cultural resources collections in accordance with federal regulations.
- Develop and sustain environmental education and awareness through organized tours, special events, exhibits, videos, and interpretive media.

Cultural Resources Inventory

A total of 5,616 archeological sites (including 2,119 isolated finds) have been recorded on Fort Carson and the PCMS. Of these, 861 have been determined eligible for inclusion in the National Register; 4,728 sites have been determined to be not eligible. Prehistoric sites number 4,258; historic sites number 890. A total of 468 sites are multicomponent, *i.e.* having both prehistoric and historic components.

Approximately 79,113 acres of Fort Carson (57 percent) have been surveyed for archeological sites; 125,290 acres of the PCMS (53 percent) have been surveyed. Site investigations have resulted in a large collection of artifacts, including material culture and faunal remains, and associated scientific documentation.

Ten National Register-eligible historic districts have been identified on Fort Carson and the PCMS. Districts include three historic architectural districts on Fort Carson, six historic homestead districts on the PCMS, and a rock art district on Fort Carson. A total of 68 buildings on Fort Carson and 42 homestead-related buildings and structures on the PCMS are contributing properties of historic districts. The 7th ID and Fort Carson has completed inventory and evaluation of World War II-era architectural properties, and historic architectural investigations are now focusing on Cold War-era properties.

The ICRMP identifies the following time-sensitive goals for continuing identification and evaluation of cultural resources on Fort Carson and the PCMS during 2002-2006.

- Complete survey of 100 percent of high archeological probability areas on Fort Carson by 2007.
- Complete survey of 100 percent of high-medium archeological probability areas on Fort Carson by 2007.
- Clarify the National Register eligibility status of 74 archeological sites on Fort Carson by 2007.
- Complete reevaluation of the Turkey Canyon Rock Art District by 2007.
- Survey 100 percent of high and moderate archeological probability areas open to maneuver training on the PCMS by 2003.
- Survey 59 percent (8,974 acres) of high archeological probability areas closed to maneuver training on the PCMS by 2007.
- Clarify the National Register eligibility status of 735 archeological sites on the PCMS by 2007.
- Complete comprehensive investigation of the rock art of the Hogback area of the PCMS during 2003.

- Develop Cold War historic context for Fort Carson by 2003.
- Inventory 11 percent of Cold War-era architectural properties on Fort Carson by 2007.
- Conduct condition assessment and reevaluation of the Waste Water Treatment Plant and Incinerator Complex Historic District in 2003.
- Initiate consultation with Native American tribes to identify traditional cultural properties on Fort Carson and the PCMS in 2002.

ICRMP Implementation Summary

This ICRMP is designed to provide direct input into the Environmental Program Requirements (EPR) budget process. Chapter 5, *Cultural Resources Management*, describes specific projects with justifications, timelines, and EPR numbers. Budget estimates for ICRMP projects during fiscal years (FY) 2002-2006 are provided in Section 7.1, *ICRMP Implementation Costs*.

The ICRMP outlines the following management projects and initiatives for 2002-2006:

- conduct internal review of 7th ID and Fort Carson projects and activities for cultural resources concerns (Sections 5.4.1.7 and 6.1, 2002-2006);
- conduct review per Section 106 of the National Historic Preservation Act in cooperation with the Colorado SHPO, the Advisory Council, and Native American tribes, as appropriate (Sections 5.1 and 6.2, 2002-2006);
- consult with Native American tribes per Section 106 of the National Historic Preservation Act, the American Indian Religious Freedom Act, and the Native American Graves Protection and Repatriation Act (Section 5.1.3.1, 2002-2006);
- inventory archeological resources on Fort Carson (Section 5.2.1.1.1, 2002-2006);
- evaluate inventoried archeological sites on Fort Carson for National Register eligibility (Section 5.2.1.1.1, 2002-2006);
- reevaluate the Turkey Canyon Rock Art District (5PE14) to resolve management concerns (Section 5.2.1.1.1, 2002-2006);
- inventory archeological resources on the PCMS (Section 5.2.1.1.2, 2002-2006);
- evaluate inventoried archeological sites on the PCMS for National Register eligibility (Section 5.2.1.2, 2002-2006);
- conduct a comprehensive investigation of the rock art resources of the Hogback region of the PCMS (Section 5.2.1.1.2, 2002);
- develop a Cold War historic context for Fort Carson (Section 5.2.2.1.1, 2002);
- inventory 55 historic architectural properties on Fort Carson constructed during the early years of the Cold War (1947-1961) (Section 5.2.2.1.1, 2002-2006);
- conduct condition assessment and reevaluation of the Waste Water Treatment Plant and Incinerator Complex Historic District (5EP2447 and 5EP2446) on Fort Carson for National Register eligibility (Section 5.2.2.1.1, 2002);
- conduct an investigation of traditional cultural properties on Fort Carson and the PCMS in cooperation with Native American tribes (Section 5.2.3, 2002-2006);
- protect and monitor significant archeological sites on Fort Carson and document effects to sites (Sections 5.4.2.3.1 and 6.3, 2002-2006);
- mitigate adverse effects to significant archeological sites on Fort Carson (Section 5.4.2.3.1, 2002-

2006);

- protect and monitor significant archeological sites on the PCMS and document effects to sites (Sections 5.4.2.3.1 and 6.4, 2002-2006);
- mitigate adverse effects to significant archeological sites on the PCMS (Section 5.4.2.3.1, 2002-2006);
- complete 4,800 square-foot expansion of the Curation Facility to meet curation requirements (Section 5.4.2.6, 2003);
- curate archeological and paleontological collections in accordance with federal regulations (Section 5.4.2.6, 2002-2006);
- maintain National Register-eligible historic architectural properties in accordance with the *Secretary of the Interior's Standards for Rehabilitation* (Section 5.4.3.3.1, 2002-2006);
- manage the Turkey Creek Ranch Recreation Area Historic District (5EP836) in accordance with the *Turkey Creek Ranch Historic District Design Guidelines* and the *Turkey Creek Recreation Area Maintenance Manual* (Section 5.4.3.3.2.1, 2002-2006);
- manage the Old Hospital Complex (5EP1778) per amended memorandum of agreement with the Colorado SHPO and the Advisory Council (Section 5.4.3.3.2.3, 2002-2006);
- in consultation with the Colorado SHPO, document a representative sample of Capehart housing (Section 5.4.3.3.2.5, 2003);
- stabilize and promote public interpretation of seven historic farmsteads on the PCMS (Section 5.4.3.3.3, 2003);
- maintain and develop the geographic information system (GIS) and other cultural resources databases at the Curation Facility to support cultural resources management (Section 5.5, 2002-2006); and
- support initiatives to educate military personnel and the public on the manner and need for cultural resources protection on Fort Carson and the PCMS (Section 5.6, 2002-2006).

Total estimated budget for ICRMP implementation during 2002-2006 is $8,018,000.

Appendix E – Referenced Plans

(On CD)

Fort Carson Spill Prevention, Control and Countermeasure Plan
Fort Carson Dust Suppression SOP

Appendix F1 – Monitoring Records

To be added when completed and updated quarterly

Appendix F1

No monitoring data has been collected as of the November, 2011 update. Monitoring is not required by the 2000 MSGP. Future monitoring results shall be placed in this section for reference.

Appendix F2 – EPA Records

To be added when completed and updated quarterly

Appendix F3 – Internal Records

To be added when completed and updated quarterly

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8
1595 Wynkoop Street
DENVER, CO 80202-1129
Phone 800-227-8917
http://www.epa.gov/region08

MAY 27 2010

02 JUN REC'D

Ref: 8P-W-WW

Carlos Rivero-deAguilar
Fort Carson
DPW - Environmental Division
1638 Elwell St., Building 6236
Fort Carson, CO 80913

Re: Extension of Permit Coverages for Industrial Stormwater Discharges (COR05A001F, COR05A002F, and COR05A11F)

Dear Mr. Rivero-deAguilar:

This letter is being provided to inform you that the authorizations for coverage under the 2000 Multi Sector General Permit (MSGP), COR05A001F, COR05A002F, and COR05A11F, remain in effect. A Notice of Intent (NOI) was submitted to the Environmental Protection Agency (EPA) prior to the expiration of the 2000 MSGP. EPA plans to reissue a new MSGP in 2013. Your coverage under the 2000 MSGP will be administratively extended until EPA issues the new MSGP. Upon reissuance of the new national permit MSGP, which will include the areas that are under the jurisdiction of EPA Region 8, you can submit a NOI for coverage under that permit.

It is important to note that the terms and conditions of the 2000 MSGP remain in full effect for your operations.

If you have any questions with regard to this letter, please contact Amy Clark at 303-312-7014, or e-mail at clark.amy@epa.gov.

Sincerely,

Colleen Gillespie

Colleen R.L. Gillespie
Acting Chief
Wastewater Unit