ATTACHMENT D – PROCEDURES TO PREVENT HAZARDS

PROCEDURES TO PREVENT HAZARDS

Heritage Environmental Services, LLC 284 East Storey Road Coolidge, AZ 85128

AZD081705402

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APPENDICES

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1 SECURITY

A chain link fence with three strands of barbed wire surrounds the facility with the main gate located on Storey Road. The main gate is controlled by restricted electronic key access and can be opened/closed from controls inside the office. A gate for railcar ingress/egress located at the northeast corner of the property is kept locked at all times with a padlock. If the railcar gate is unlocked, Heritage personnel will be present in the vicinity at all times. There is a pedestrian ingress/egress gate located at the southeast corner of the property. It is always kept locked. Keys for the locks are maintained by key employees, and spare keys are stored in the office. An additional access gate on Storey Road, which is normally locked, can be accessed by the Coolidge Fire Department. This gate is locked with keys maintained by Heritage employees and the City of Coolidge Fire Department.

The typical operating hours of the facility are 6:00 A.M. to 5:00 P.M., seven days per week. In the event of an evacuation, facility personnel control access to the facility (see Evacuation Plan in Section 7 of the Contingency Plan).

An automatic gate at the main entrance on Storey Road controls entrance to the facility. Access to the office building is permitted by the front door, into a reception area. Visitors must sign in the logbook and wait for authorized personnel in the reception area. Any on-site visitors are accompanied at all times by Heritage employees. Visitors are required to sign out upon leaving the facility. Contractors must follow Heritage's written program titled "Contractors Safety Guide." Signs are posted at the main entrance, the northeast entrance, and other approachable sides of the facility fence. The signs read "Danger - Unauthorized Personnel Keep Out." The signs are legible from a distance of at least 25 feet. The legend is printed in English and Spanish at the Coolidge facility.

In addition to the security requirements required by 40 CFR Part 264.14(b)(2)(i) and (ii), Heritage provides additional security measures that consist of surveillance cameras that record images at strategic locations within active areas of the facility and other electronic security measures. Additional information concerning the security devices at the facility is provided in Appendix D-B. In lieu of security cameras or similar devices, Heritage may provide 24-hour onsite security personnel.

2 INSPECTION SCHEDULE

The following inspection schedule will be implemented:

Reference 40 CFR 264.	Unit	Types of Problems	Minimum Frequency ⁽¹⁾
15(b)(1)	Safety and emergency equipment ⁽²⁾	Inventory depletion and functionality	Weekly
15(b)(1)	Monitoring equipment ⁽²⁾	Malfunctions and calibration drift	Annual
15(b)(1)	Security devices ⁽²⁾	Malfunctions	Monthly
174	Containment (including trenches and sumps) for container storage areas and bulk loading area (liquids) and concrete base and rail base (for solids storage and bulking)	 cracks and gaps in the containment system, wear, cracks, and gaps on berms and walls, wear on sealant, liquids in containment, waste dropped on containment base, proper placement of grating on containment trenches Lighting properly functioning (for indoor storage) 	Weekly
174	Containers	 Leaking Bulging Deterioration Labeling properly affixed Containers are closed (except if adding or removing waste), 	Daily
1052	Subpart BB – Pumps	- Leaking	Visual – weekly; Monitor - monthly
1061	Subpart BB – Valves	- Leaking	Initial, then annual
1086 (c), (d), & (e)	Subpart CC – Containers	Cracks, holes, gaps, or other spaces into the interior of the container	Initially, then annual

Notes: ⁽¹⁾ Changes to inspection frequencies may be made up to the frequency specified in the applicable rules by submitting a class 1 permit modification to the ADEQ, in accordance with 40 CFR 270.42.

⁽²⁾ See Table D-A in Appendix D-A for additional details.

The schedule of inspections and the Inspection Reports are maintained by the Environmental Compliance Manager. Specific items that will be inspected are detailed in Appendix D-A. An example Inspection Findings Form that can be used to document inspection dates, corrective actions, and completion dates is also provided in Appendix D-A. Corrective action that is needed, as noted at any inspection, must be initiated within 24 hours and completed as early as possible.

3 EQUIPMENT REQUIREMENTS

3.1 <u>Communication Equipment</u>

Internal communications and alarm systems used to provide immediate emergency instruction to the facility are discussed in the Evacuation Plan located in Section 7 of the Contingency Plan. Telephones capable of making external calls are located in the office, the laboratory building, and the maintenance building. Emergency telephone numbers are outlined in Section 8 of the Contingency Plan. Employees are equipped with two-way radios or have access to air horns to alert key personnel of an emergency.

3.2 <u>Emergency Equipment</u>

An emergency equipment list is located in Appendix E-D of the Contingency Plan.

3.3 <u>Aisle Space Requirements</u>

The facility maintains sufficient aisle space, a minimum of two feet, to allow the unobstructed movement of personnel, fire protection equipment, or spill control equipment to any area of facility in the event of an emergency. For containers that are stored on containment pallets in adjacent rows, the distance between the containers is at least two feet.

3.4 <u>Sprinkler Suppression System</u>

The Central Container Storage Area and the 800 Container Storage Area are equipped with an automatic fire suppression system that is water-AR-AFFF foam based. The system was designed in accordance with NFPA 30 incorporated into the 2003 International Fire Code which was the standard adopted by the Arizona State Fire Marshal at the time of installation. The fire suppression system installed in the Central Storage Area and the 800 Area Container Storage are suitable for storage of hazardous materials including flammable liquids. In addition to the sprinkler system, the Central Storage Area and the 800 Container Storage Area are equipped with a beam smoke detection system and photoionization smoke detection system as a means to detect fire/smoke in advance of sprinkler system activation and provide early warning to emergency responders. Attachment D-C provides drawings of the fire suppression and alarm system.

There are also several water outlets within the facility that may be utilized in an emergency. There are eight water storage tanks at the facility that are filled by groundwater from an on-site water production well that is designed to pump ground water in excess of 600 gallons per minute. The tanks are equipped with low-level alarms. Heritage controls water rights for the aquifer beneath the facility, and water usage is well below the volume of water rights. In addition to the sprinkler suppression system, the Heritage facility is protected by conventional ABC fire extinguishers. There are also 55-gallon containers of AFFF fire suppression foam available for response to a fire. Heritage personnel have been trained in fire response by the local fire department.

3.4.1 Fire Protection Measures

Heritage maintains the following measures for fire protection:

- 1. Heritage has a fire suppression system serving the Central Container Storage Area and the 800 Area Container Storage Area at the facility. This system is maintained in operational status.
- 2. Heritage has an existing system of water storage tanks at the facility that are filled by a groundwater production well. The current volume of water in storage exceeds 126,900 gallons. The pumps and water tank systems are maintained in operational status. The water well is designed to pump ground water at a rate in excess of 600 gallons per minute to replenish water storage tanks in the event of an emergency.
- 3. Heritage maintains its water rights, sufficient to provide adequate volume of water to the water storage tank system. Heritage has not sold or traded any of its water rights for the facility.
- 4. The Heritage facility is also served by the City of Coolidge Fire Department' The City of Coolidge has informed Heritage of additional equipment purchases that enable even more sophisticated response to emergencies at the Heritage facility. The advanced equipment ordered by the City of Coolidge reduced the quantity of water necessary for fire fighting, in comparison to existing equipment and technology.
- 5. The City of Coolidge has in place a written Mutual Aid Agreement with the following municipal fire departments within Pinal County:
 - Casa Grande Fire Department
 - Eloy Fire Department
 - Maricopa Fire Department
 - Arizona City Fire District
 - Avra Valley Fire District
 - Florence Fire Department
 - Golder Ranch Fire District
 - Kearny Fire Department
 - Stanfield Fire Department
 - Regional Fire & Rescue Department
 - Gila River Indian Community Fire Department
- 6. Heritage has four 55-gallon canisters of AFFF fire suppression foam in inventory. The canisters are stored outside the southwest corner of the Central Container Storage Area. As part of the Agreement with the City of Coolidge, the Coolidge Fire Department owns and will provide the foam eductors necessary for application of the AFFF foam on-site at Heritage, should it be required in an emergency.
- 7. In addition to hand-held A/B/C fire extinguishers, Heritage has two 125-pound fire extinguishers rated B/C for flammable liquid and electrical fires (both located at the Central Container Storage Area) and two Class D fire extinguishers (one located in the Lab Depack Area and one located in Area

800 by the north door).

- 8. Heritage employees have been trained in the use of Fire Extinguishers.
- 9. Heritage employees have been trained in the Contingency Plan and Procedures to Prevent Hazards documents established for emergencies at the facility.
- 10. Heritage has established "No Smoking" areas and appropriate signage. Heritage also has a "Safe Work Permit" program that would prevent performance of any "hot work," such as welding in the areas where hazardous wastes are stored, without the proper precautions (e.g., relocation of combustible materials).

4 PREVENTIVE PROCEDURES, STRUCTURES, AND EQUIPMENT

4.1 <u>Unloading and Consolidation Operations</u>

Unloading procedures for containerized wastes are discussed in the Container Storage and Consolidation Plan (Permit Attachment C). Container loading and unloading is conducted with specialized equipment designed to move containers in accordance with written Standard Operating Procedures (SOPs). Consolidation operations, including solids (filter cake) blending, is conducted with specialized equipment in accordance with written SOPs. Consolidation equipment, including housekeeping tools, is tested and maintained and inspected prior to use.

The following SOP's related to bulking, blending and consolidation will be maintained at the facility:

- F006 Blending and Consolidation
- Organic Waste Consolidation
- Bulking for Shipment Offsite

4.2 <u>Run-on / Run-off</u>

All hazardous waste activities are conducted indoors, under roof with curbing, or in otherwise contained areas. The facility has the following controls to prevent run-on/runoff of storm water.

General Facility Controls: The facility has a soil berm constructed on the north, east and west side of the perimeter fence with the exception of areas where access is required (e.g., the rail spur). These berms mitigate potential run-on and run-off from the facility. Based on visual observation, drainage conveyances are constructed along the railroad and along East Storey Road to prevent run-on to the facility from potential offsite sources.

Central Storage Area – The Central Storage Area is constructed of poured concrete walls up to approximately 4 feet above the surrounding grade. Above the concrete wall, the Central Storage Area is a metal sided building with a roof to prevent precipitation from entering the Central Storage Area. These structures serve to mitigate any potential run-on into the unit and prevent precipitation from accumulating. Although located in an indoor structure under roof, the sloped floors coupled with blind sumps of the Central Storage Area would serve to prevent run-off from the unit.

Roll Off Container Storage Area – The Roll-Off Container Storage Area is a contained area that consists of block walls on the east and north sides of the unit that are approximately eight feet in height. On the south side of the unit a six inch concrete curb is present at the Roll-Off Container Storage Area. On the west side of the unit a 3-inch curb is present at the Roll-Off Container Storage Area. The structures are constructed in a manner that they are sufficiently above the surrounding grade to prevent run-on/run off at the unit. Additional detail concerning the construction of the curbs is provided in Permit Attachment C of the permit application.

Dock and Van Container Storage Area (DVSA) – The DVSA secondary containment volume is sufficient to contain precipitation from a 25-year/24-hour storm event including any run-on into the unit which was based on land surveying conducted to determine the drainage area in the vicinity of the DVSA. Permit Attachment C of the permit application provides additional information.

East Container Storage Area – Run-on Run-off is prevented in the East Container Storage Area by curbing that is a minimum of 5.5 inches above the surrounding grade to prevent runon/runoff from the unit.

Lab Depack Area – The Lab Depack Area is located inside a building with a roof and doors to prevent precipitation and runoff from the unit. The finished floor of the unit is above natural grade and the unit is accessed by a concrete ramp which mitigates the potential for runon at the unit. Storage of hazardous waste in the Lab Depack area is conducted in Portable Secondary Containment Pallets. These manufactured devices are typically constructed with sides of sufficient height to prevent contact from runon/runoff at the unit. Permit Attachment C, Appendix C-H provides technical information for typical secondary containment pallets.

Bulk Loading Area (Tanker and Rail) – The Bulk Loading Area (Tanker and Rail) secondary containment volume is sufficient to contain precipitation from a 25-year/24-hour storm event, including any run-on into the unit, based on land surveying conducted to determine the drainage area in the vicinity of the adjacent DVSA. Accumulated precipitation or other liquids found in the containment are removed within one operating day of discovery. Permit Attachment C, Appendix C-E provides additional information.

Metal grates over the sump minimize run-on into the sump. To the west of the rail spur, there is an 18-inch high wall to minimize run-on into the unit. Where there is a gap in the wall and grating over additional containment for the rail area, that grating is raised, preventing run-on into the unit from the dock area. To the south of the rail spur, there is an end-loading dock for railcars. This dock is raised and sloped away from the rail area, preventing run-on or run-off. The tanker truck bay is sloped from the south and from the north toward the sump to minimize run-off from the area. To the east of the tanker truck bay, the unit is bordered by walls. Therefore, there is no run-on or run-off at the east side of the unit.

800 Area Container Storage – The 800 Container Storage Area is located inside a building with roof and doors to prevent precipitation and significantly limit the potential for run-off or accumulated precipitation. Storage of hazardous waste in the 800 Area Container Storage is conducted in Portable Secondary Containment devices. These manufactured devices are typically constructed with sides of sufficient height to prevent contact with hazardous waste from potential runon/run-

off. Permit Attachment C, Appendix C-H provides technical information for typical secondary containment pallets.

4.3 <u>Power Failure</u>

In the case of a power failure, the facility may have to cease operations, but there would be no threat of a release or endangerment to human health or the environment. Ingress/egress to the facility would be via the manually controlled gates or the main gate, which can also be manually opened. A list of emergency lighting units is included with the emergency equipment list in Appendix E-D of the Contingency Plan.

4.3.1 Fire Suppression Capability

The fire suppression system in the Central Storage Area and the 800 Area Container Storage Area is equipped with a rated fire pump powered by a diesel engine. The diesel fire pump is designed to operate with or without power either automatically or in manual mode.

In the event of a power outage during a fire, the fire hydrant feed pump system will not operate because there is no backup power source. The fire department has access to the fire water supply through the hydrants (the City of Coolidge pumper trucks have the capability to suck water from hydrants) as well as from a central draw-point. The pumper trucks will then boost the pressure for direct fire-fighting purposes.

The well pump will also not operate when the power is out and will not be able to refill the water tanks. In this case, the facility will be limited to the stored volume of water (126,900 gallons) at the facility before water from offsite is required. The Coolidge Fire Department is in the process of acquiring new equipment that will significantly reduce the water requirements of their pumper trucks.

The loss of power will have no effect on the use of the four foam canisters, as these are educted by the fire trucks. Also, the loss of power will have no effect on using hand-held extinguishers.

4.4 <u>Personnel Protective Equipment</u>

The facility prevents undue exposure of personnel to hazardous waste by installing engineering controls, implementing administrative measures, or providing employees with the appropriate personal protective equipment. Heritage provides eye protection (e.g., safety glasses), foot protection (steel toed boots), dermal protection (coverall, gloves, aprons, uniform, etc.), and breathing protection (e.g., air purifying respirator) which is selected based on the task or activity being performed and the conditions associated with the task being performed. In addition, Heritage provides thorough medical monitoring for employees. The medical monitoring program is managed by an industrial hygienist and Heritage occupational health physicians.

4.5 <u>Minimize Release to the Atmosphere</u>

Waste management activities are conducted in a manner to minimize the exposure to the atmosphere by engineering controls and by conducting activities under roof, when possible. Solids (filter cake) blending operations do not take place in windy conditions. If deterioration or leaks are detected during container inspections, the container is immediately overpacked.

4.6 <u>Management of Temperature Sensitive Materials</u>

Heritage prohibits certain wastestreams that are considered temperature sensitive from being accepted at the facility during the months of June through September when average daily high temperatures in the Phoenix area exceed 100 °F. Wastestreams that generators identify as temperature sensitive, shock sensitive, spontaneously combustible, or requiring temperature controls undergo an additional technical review prior to approval to consider whether or not the materials can be accepted at the facility during the months of June through September.

Wastes that will normally be prohibited from acceptance to the facility during months of June through September will consist of the following:

- Wastestreams that generators identify on the Heritage wastestream profile as being temperature sensitive, requiring temperature controls, or are shock sensitive with self-accelerating decomposition temperatures that are less than 122 °F (50 °C). Typically, these materials are azo-compounds, azidecompounds, and organic peroxides.
- Technical/commercial grade formulations of the following compounds or formulations:

dibenzvl peroxydicarbonate 2,5 dimethyl-2,5dihydroperoxy hexane dinitrotoluene dry guanyl compounds dry lead azide Unwetted nitrocellulose films and similar materials Unwetted picric acids Unwetted explosives aluminum ophorite explosive amatol ammonal butyl tetryl copper acetylide cyanuric triazide cyclotrimethylenetrinitrami ne dinitroethyleneurea dinitroglycerine dipicryl sulfone dipicrylamine erythritol tetranitrate fulminating gold fulminating mercury fulminating platinum fulminating silver

gelatinized nitrocellulose guanyl nitrosamino guanyl nitrosamino guanylidene guanyltetrazene heavy metal azide hexanite hexanitrodiphenylamine hexanitrostilbene hexogen hydrazoic acid hyrazinium nitrate lead azide lead mannite lead mononitroresorcinate lead picrate lead styphnate magnesium ophorite mannitol hexanitrate mercury fulminate mercury oxalate mercury oxalate mercury tartrate mononitrotoluene nitrated carbohydrate nitrated glucoside nitrated polyhydric alcohol

nitrogen trichloride nitrogen triiodide nitroglycide nitroglycol nitronium perchlorate nitrourea organic amine nitrates organic nitramines picramide picratol picryl fluoride polynitro aliphatic compounds potassium nitroaminotetrazole robenzoic acid silver acetylide silver azide silver fulminate silver styphnate silver tetrazene sodatol sodium amatol syphnic acid tetranitrocarbazole tetraze tetrytol trimethylolethane

Heritage Environmental Services, LLC AZD 081 705 402 Procedures to Prevent Hazards Class 2 Permit Modification AZC15-1, Rev. 2, June 2015 trinitronaphthalene trinitrophenetol trinitrophloroglucinol trinitroresorcinol urea ammonium nitrate

trimonite trinit trinitroanisole trinitrobenzoic acid trinitrocresol trinitro-meta-cresol

15MW2055

D-12

vinyl chloride

5 IGNITABLE, REACTIVE AND INCOMPATIBLE WASTE

5.1 Prevention of Ignition or Reaction

Smoking is allowed in designated areas only. "NO SMOKING" signs are posted throughout the facility. Any work that involves open flames or other sources of heat (*e.g.*, welding, cutting, etc.) must be accompanied by a Heritage-issued Safe Work Permit. Water reactive wastes will only be stored in the Lab Depack Area. When water reactive wastes are in transit on a trailer, the trailer will be placarded accordingly.

5.2 General Handling Precautions

The procedures to be followed prior to consolidating different wastestreams are specified in the facility's Waste Analysis Plan (Permit Attachment B) and in facility SOPs.

5.3 Screening Solids (Filter Cake) Prior to Blending

Wastestreams designated for the Solids (Filter Cake) Blending program are initially screened for cyanide, volatile organic compounds, and free liquids. Additional details are provided in the Waste Analysis Plan (Permit Attachment B).

5.4 Management in Containers

Containers of ignitable or reactive waste are located at least 50 feet (15 meters) from the facility's property line. See the Container Storage and Consolidation Plan (Permit Attachment C) for applicable drawings. Incompatible wastes and materials are not placed in the same container or in unwashed containers that previously held incompatible wastes. Incompatible materials will not be stored in a railcar and a tanker truck simultaneously in the Bulk Loading Area. Storage of incompatible containers is addressed in the Container Storage and Consolidation Plan (Permit Attachment C).

5.5 Fire Detection Devices

The facility is equipped with automated fire detection devices in the Central Container Storage Area, the 800 Area Container Storage Area, the Dock and Van Container Storage Area, and the Rail and Tanker Loading Area, as well as other areas of the facility. Depending on their location, these automated devices are designed to detect a pressure loss indicating that automated fire suppression equipment was engaged, detect heat in excess of 190 ^oF, detect smoke using beam detection systems or detect smoke by photoionization devices. Manual pull-down fire alarms are also present at the facility. When engaged, these devices activate internal horns/strobe lights and automatically notify a third party security firm. Additional information is provided in Appendix D-B.

APPENDIX D-A FACILITY INSPECTION INFORMATION

CONTAINER AND CONTAINMENT INSPECTION

Containers will be inspected for leaks, deterioration, and presence of labeling on a daily basis. The frequency of inspection for the structure and ancillary items in the container storage areas, [e.g., containment system, trenches, and sumps (for liquids), and concrete base, berms and walls (for Hazardous roll-off storage)], will be inspected on a weekly basis. Additional information is available in Section 2 – Inspection Schedule and in the Container Storage and Consolidation Plan (Permit Attachment C).

SAFETY AND EMERGENCY EQUIPMENT INSPECTION

At a minimum frequency of once per week, emergency equipment identified in the Contingency Plan will be inspected to identify that the items are present and in working order. In addition, safety equipment identified in Table D-A will be inspected at the frequency noted in Table D-A.

MONTHLY SECURITY INSPECTION

At a minimum frequency of once per month, the following security items will be checked:

- Fencing in good condition
- Danger signs posted
- Automatic gates operational

ANNUAL SAFETY MONITORING EQUIPMENT/ COATING/ SPRINKLER INSPECTION

At a minimum frequency of once per year, Heritage will inspect monitoring equipment for malfunction or calibration drift.

At a minimum frequency of once per year, the coatings will be inspected for cracks, spalling, blistering, chips, or staining (only an indicator).

At a minimum frequency of once per year, the fire suppression systems at the Central Container Storage Area and the 800 Storage Area will be inspected to confirm that they are in working order. The components that will be inspected include the automatic sprinkler systems, the pumping systems that feeds the sprinkler system, and the fire hydrants. The pressure gauges will be inspected for malfunction or calibration drift.

SUBPART BB INSPECTION AND REPAIRS

Refer to Subpart BB Air Emissions Standards for Equipment Leaks (Permit Attachment L) for more information. At a minimum frequency of once per week, the following equipment will be inspected:

- Pumps in light liquid service will be inspected in accordance with 40 CFR 264.1052
- Flanges and other connectors will be inspected in accordance with 40 CFR 264.1058
- Heritage has opted to monitor valves in light liquid services per 40 CFR 264.1061
- Monitoring shall comply with 40 CFR 264.1063(b)
- All repairs will be in compliance with 40 CFR 264 Subpart BB

SUBPART CC INSPECTION

At a minimum, containers will be visually inspected for cracks, holes, gaps, or other spaces into the interior of the container as required in 40 CFR Part 264, Subpart CC. Refer to the Subpart CC Inspection and Monitoring Plan (Permit Attachment H) for more information.

• If waste is added to a container at the facility, the initial inspection must be performed promptly upon adding waste to the container.

- Class 2 Permit Modification AZC15-1, Rev. 2, June 2015
- If waste is already in the container, the initial inspection must be performed at the time the container is being accepted at the facility.
- If a container remains at the facility for a period of one year or more, the visual inspection must be repeated once every 12 months.

CHECKLISTS

Heritage maintains checklists documenting inspections of each area subject to daily, weekly, monthly, and annual inspections. Samples of these checklists are provided in the following pages. An entry will be made on the relevant checklist for each item subject to inspection and will include the printed name and signature of the inspector and the date of the inspection.

	Table D-A
Safety and	Security Equipment ⁽¹⁾
Heritage Envir	ronmental Services, LLC
C	coolidge, AZ

Equipment	Location	Manufacturer	Model Number	Inspection Frequency ⁽²⁾	Comment
Phones	Offices	AT&T	2-line speaker phones model 993	Daily	
Paging System	Front Office and Warehouse Breakroom	ADT/Cortelco	C-123LW LEM	Daily	Speakers in 600,Dock, 300, Scalehouse and Warehouse
Radios	With Each Staff Member	Nextel	Varies	Daily	
Air Horn	Emergency Equipment Cabinet	Falcon Signal Horns	Varies	Weekly	the second se
Surveillance Cameras	Recording Unit in Scalehouse	ADT \ GE	DIVAR Digital Versatile Recorder	Daily	Locations throughout the facility
Auto Dialer	Scalehouse	ADT	control panel - model Vista 50P	Annual	
Fire Suppression System Tanks	South side of property near Central Storage Area at Pumphouse	N/A	N/A	Daily	
Diesel Fire Pump	South side of property near Central Storage Area at Pumphouse	Aurora Pump/Cummins Diesel	Model 4-491-14C/CFP39-F15	Annual	System inspection
Pump Controller	Pumphouse on south side of property near Central Storage Area	Metron	FD4	Annual	System inspection
Sprinkler System	Central Storage Area and 800 Storage Area	Varies	Varies	Annual	System inspection
Foam System	South side of 600 Building adjacent to main feed riser	Ansul AR-AFFF System	Varies	Annual	System inspection
Alarms/Monitors	Throughout Central Storage Area and 800 Storage Area	Varies	Varies	Annual	System inspection
Heat detection cable	Dock and Van Container Storage Area & Bulk Loading / Unloading Area	Safe Fire Detection, Inc.	Thermo Cable	NA	Does not require inspection, in the event that the signal becomes disconnected the fire alarm will sound
Horn / strobe lights	Dock and Van Container Storage Area, Central Storage Area, 800 Area Storage	System Sensor	SpectrAlert Advance	Annual	System inspection
Pull alarms	Outside 800, Central Storage Area, 800 Area Storage, and inside main office	Varies	Varies	Annual	System inspection
Smoke alarms	Main office and Scaleroom	Varies	Varies	Annual	System inspection
Photoionization Smoke alarms	Central Storage Area and 800 Storage Area	Fenwall		Annual	System inspection
Beam smoke detection system	Central Storage Area and 800 Storage Area	Xtralis	OSID	Annual	System inspection
Fire hydrants	South of 600 at fence and East of 300 at fence			Annual	
Fire extinguishers - hand held	Throughout the facility	Badger Fire Protection	Varies	Weekly	
Fire extinguishers - wheeled	Noth side of Central Storage Area, Outside SE corner of Central Storage Area	Badger Fire Protection	Badger 150	Weekly	
Foam canisters	4 55-gal drums, stored on N side of 800 Building			Monthly	
Automatic gate	South Fence on Property	Controls from ADT	Brivo System	Monthly	

Notes:

New or updated equipment may be purchased and installed as it becomes available. Equipment may be replaced with functionally equivalent equipment
 Heritage established inspection frequency. Changes to inspection frequencies may be made up to the frequency specified in the applicable rules by submitting
 Class 1. Permit Modification to ADEQ, in accordance with 40 CFR Part 270.42.

Daily Inspection Findings Form

Item: Paging System	Date:	Name:	Page:	
Finding		Corrective Action or Scheduled Date for Correction	Completed (Signature, Printed Name, Date)	
	Μ		By:	
	н		Date:	
	М		By:	
	н		Date:	
	Μ		By:	
	н		Date:	\bigtriangleup
	Μ		By:	
	н		Date:	P
	Μ		By:	
	н		Date:	
	Μ		By:	
	н		Date:	
	Μ		By:	
	н		Date:	
	Μ		By:	
	н		Date:	
	Μ		By:	
	н		Date:	

M = Maintenance

H = Housekeeping

Weekly Inspection Findings Form

Item: Fire Extinguishers - Hand Held	Week of:	Name:	Page:	
Finding		Corrective Action or Scheduled Date for Correction	Completed (Signature, Printed Name, Date)	
	М		By:	
	н		Date:	
	М		By:	
	Н		Date:	
	М		By:	
	Н		Date:	
	М		By:	
	Н		Date:	P
	М	_	By:	
	Н		Date:	
	М	_	By:	
	Н		Date:	F
	М		By:	
	Н		Date:	
	М		By:	
	Н		Date:	/_/_
	М		Ву:	_
	н		Date:	

M = Maintenance

H = Housekeeping

Annual Inspection Findings Form

Item: Fire Hydrants	Year:	Name:	Page:	
Finding		Corrective Action or Scheduled Date for Correction	Completed (Signature, Printed Name, Date)	
	М		By:	
	Н		Date:	
	М		By:	
	Н		Date:	
	М		Ву:	
	Н		Date:	
	М		By:	
	Н		Date:	
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	Н		Date:	R
	М		By:	
	Н		Date:	
	М		Ву:	
	Н		Date:	

M = Maintenance

H = Housekeeping

F O R

Heritage Environmental Services, LLC

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Daily Rail Spur Inspection (Inspection Log for Waste Railcars) (from SOP #HS-49 Railcar Operations)

15MW2055

Tank Car Inspection Checklist – Upon Arrival - Full (from SOP #HS-49 Railcar Operations)

Tank Car tuspection Checkinst -) unloading inspection Upon Arrival - Full
Date; Tank Car No	_
Contents:	
Inspector: Unlowder:	Doc #:
 Blue "Caution Men At Work" Sign on Track 	Inspector's initials
 2. Hand brake set, wheels checked, derail set 	
 Tank car bonded an/or grounded (if applicable) 	
 Placards on all four sides 	
 All valve closed with no leaks prior to opening 	
Examine all fittings, scals, and gaskets	
7. Exterior condition of tank	
 Mechanical integrity of car (visual inspection) 	
). Refleer exhibits no sign or leaking	
0. Belly valve is securely closed	
1. All handrails are good condition	
<u>Comments/Problems Noted:</u> If Railcor has a problem or defect requiring convective at (Include actions taken to correct issue, corrected by, sup	ction please explain below. ervisor initial, and date corrected)
Signature	Inspection date

Tank Car Inspection Checklist – Upon Arrival - Empty (from SOP #HS-49 Railcar Operations)

					e is in place prior to	паресноп	
Car#	Man Way	Valve Box / Valves	Bottom Caps	Date & Time	Comments	Signature	
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Tank Car Inspection Checklist – Outboard Railcar (from SOP #HS-49 Railcar Operations)

Γ	Date: Tank Car No Prior Contents:		
	Seal #(s):		
		initial	Below Inspector
		1	2
1	Within maximum load limit		
2	Correct outage observed		
3	Valves with lock pins are closed and secure		
4	All unloading connections/hose/fittings are removed	ļ	
5	Bottom outlet cap tightened and secured with a 36" wrench		
6	Steam coil inlet and optlet caps are hanging (if applicable)		
7	Manway gasket is in good condition, replace if necessary		
B	Manway cover is closed on seated gasket, and security seal is in place		
ġ	Manway bolts tightened with wrench using star pattern (torque tight)		
<u>10</u>	Under protective housing, yalves are closed and plugs/caps/nuts wrench tight		
11	Safety relief vent / valve checked (replace frangible disk if needed)		
12	Protective housing is secured in place with lock pin and security seal		
13	All four sides are properly placarded and stenciling legible		
\$4	All non-DOT placards / markings (i.e. used oil) removed	·	
15	All tank cut safety / inspection test dates are current	i	
16_	Grounding / Bonding devices removed		
17 :	Under frame checked for wear plates, springs, loose equipment, railings, etc.	1	
18	Exterior is clean and free of spills or residue		
	The chocks and blue "Caution" sign should not be removed until the railcar is		-
	ctor 1 from above: Printed Name:Signature:		
	slor 2 from above. Printed Name;		
	ailear has a problem or defect requiring corrective neuron please explain helow; ide notions taken in correct issue, corrected by, supervisor initial, and date corrected)		

EXAMPLE FORM

CONFIDENTIAL BUSINESS INFORMATION PER 40 CFR PART 270.12 Heritage Environmental Services, LLC AZD 081 705 402 Procedures to Prevent Hazards Class 2 Permit Modification AZC15-1, Rev. 2, June 2015

APPENDIX D-B

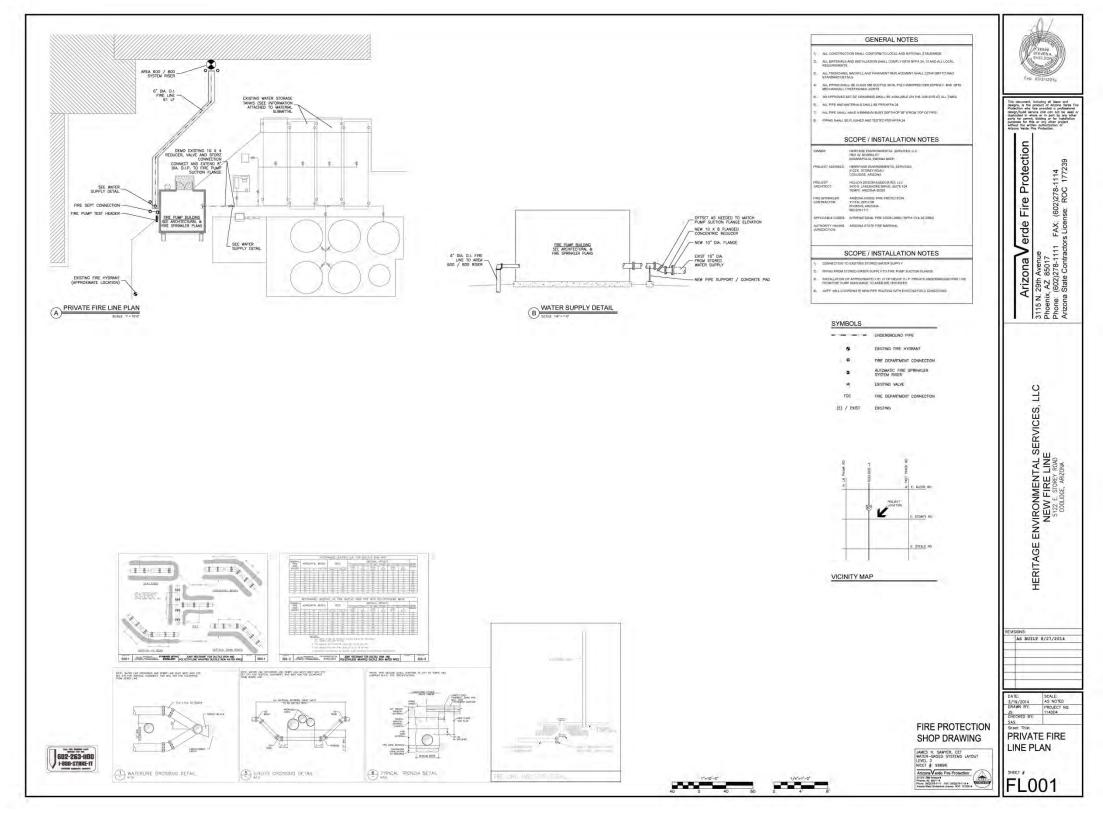
ELECTRONIC SECURITY SYSTEMS

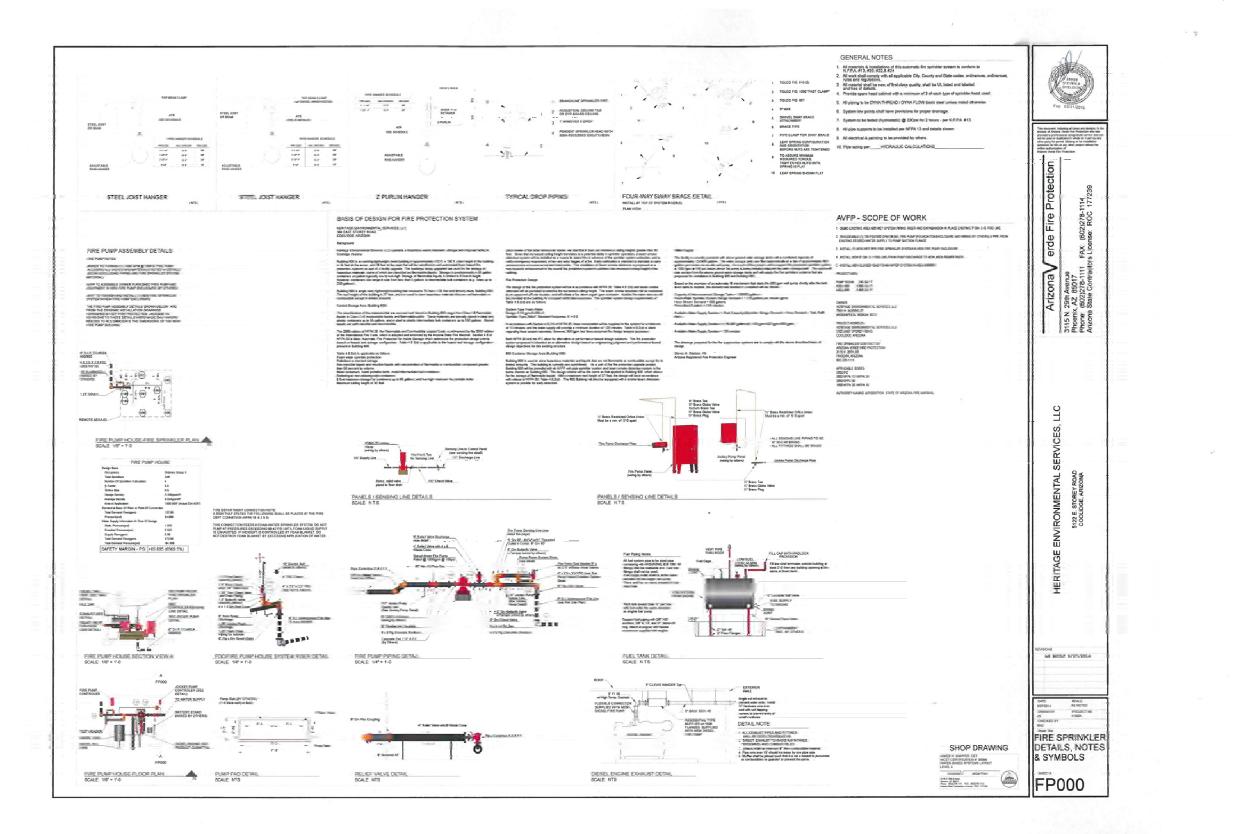
CONTENTS OF THIS APPENDIX HAVE BEEN PLACED IN THE HERITAGE CONFIDENTIAL FILE

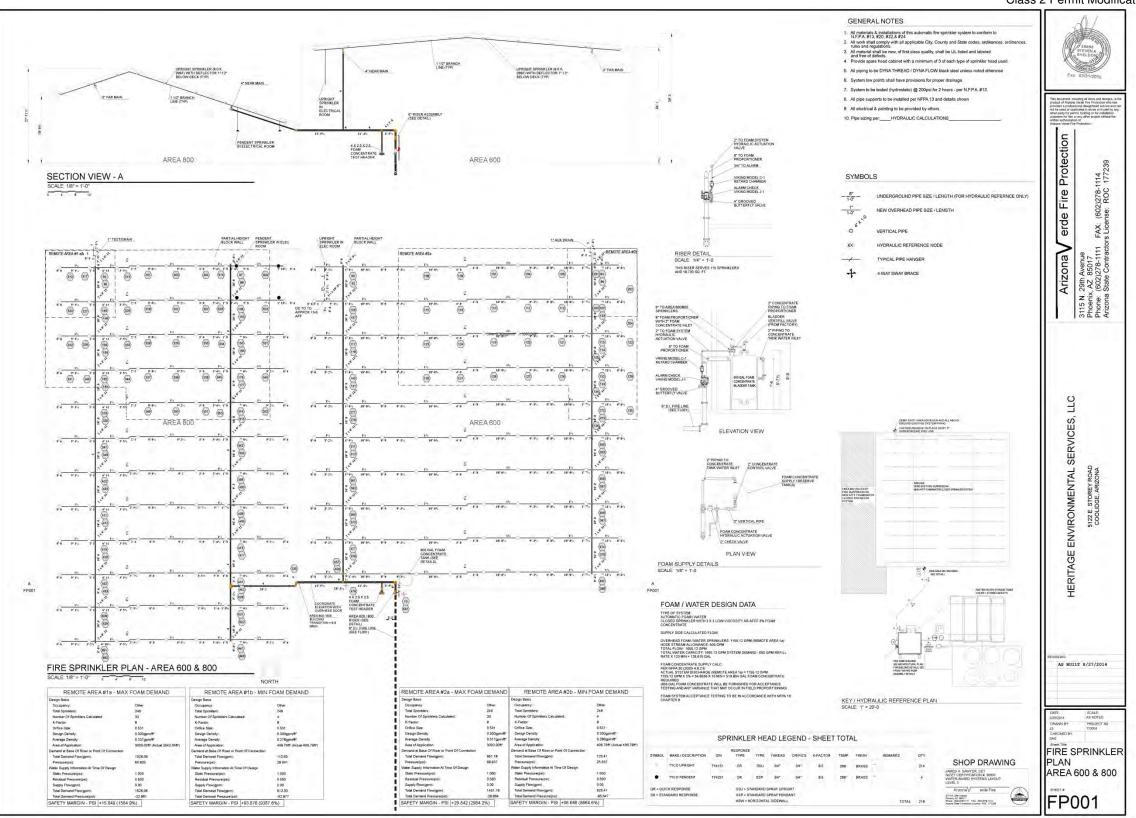
APPENDIX D-C

FIRE SUPPRESSION SYSTEM DIAGRAMS

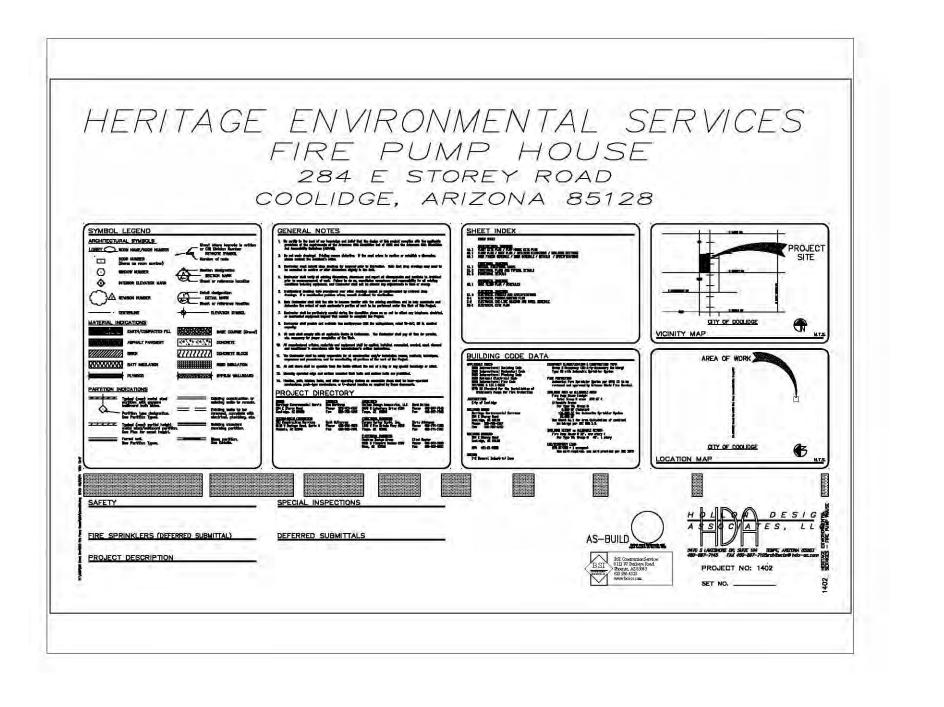
AS-BUILT PUMP, AR-AFFF FOAM, AND PIPING SYSTEM

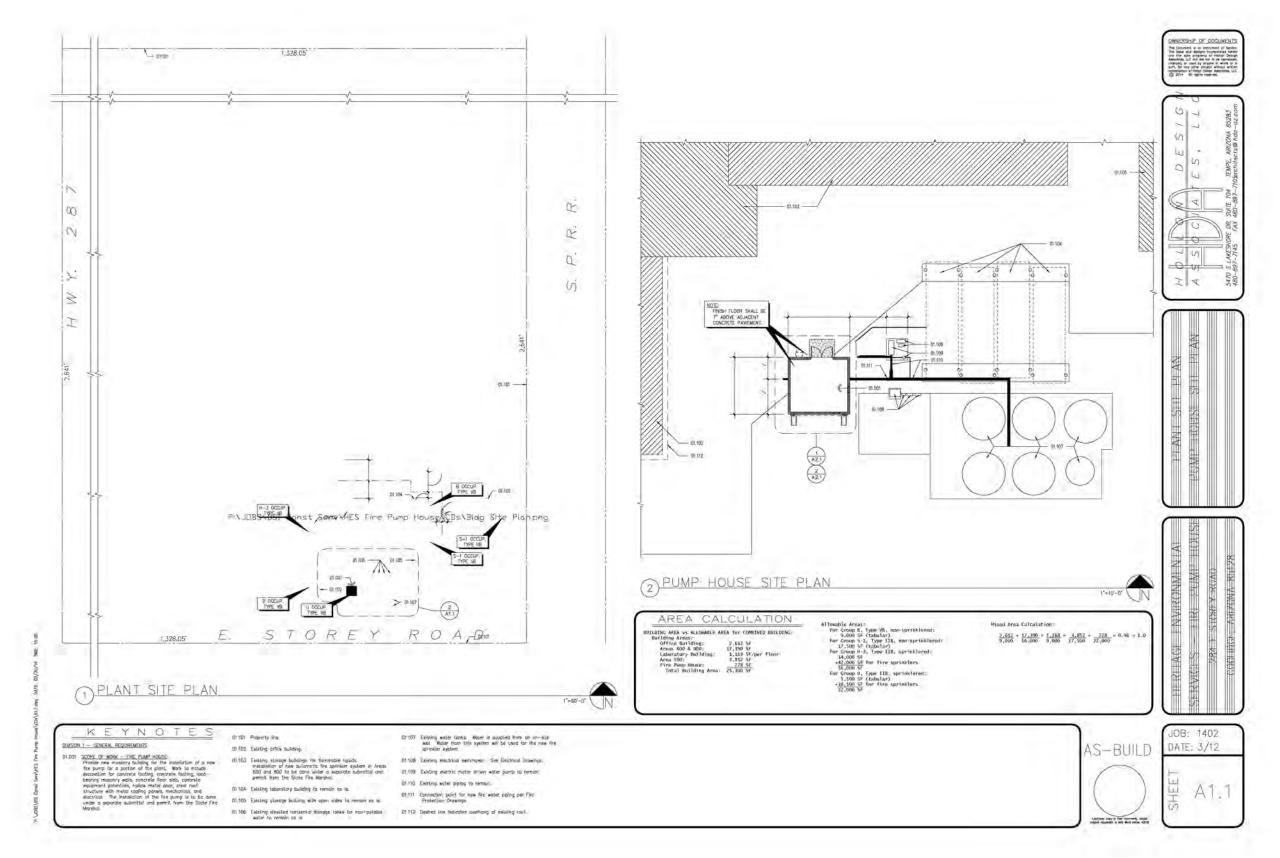


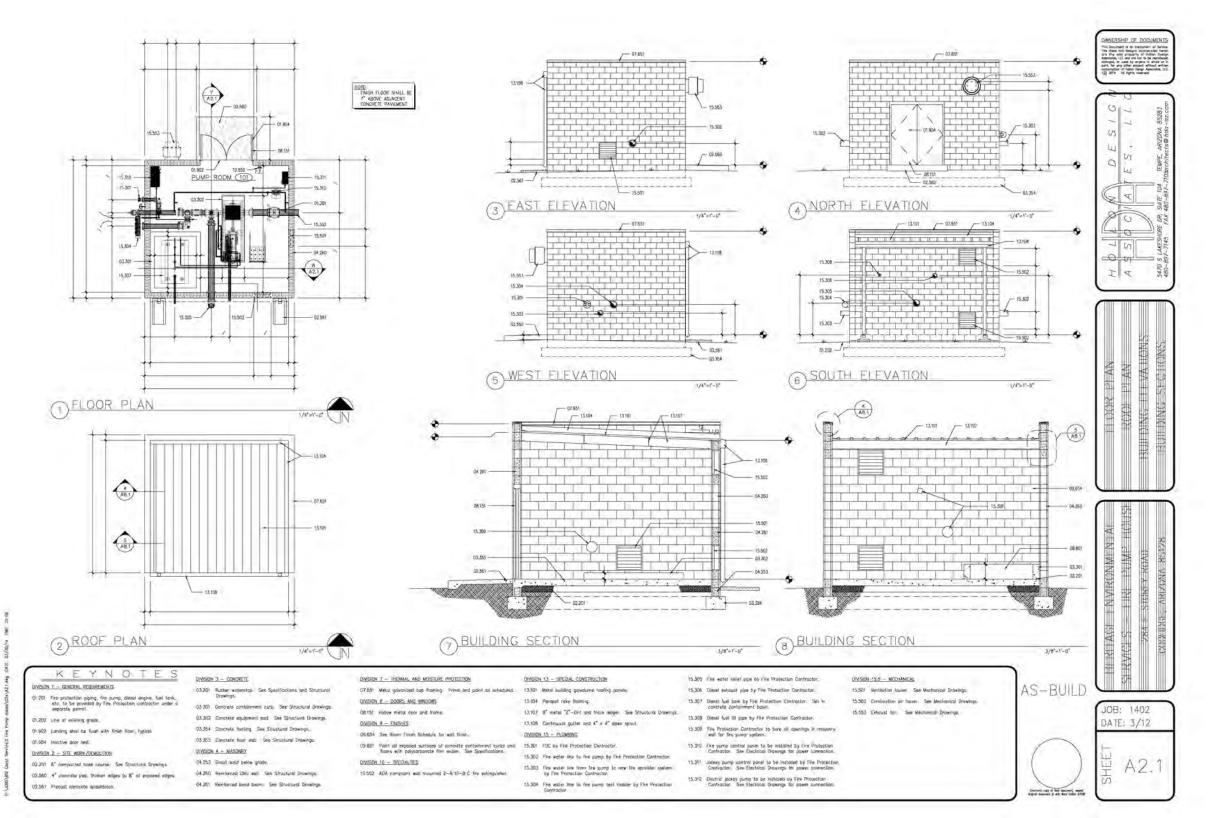


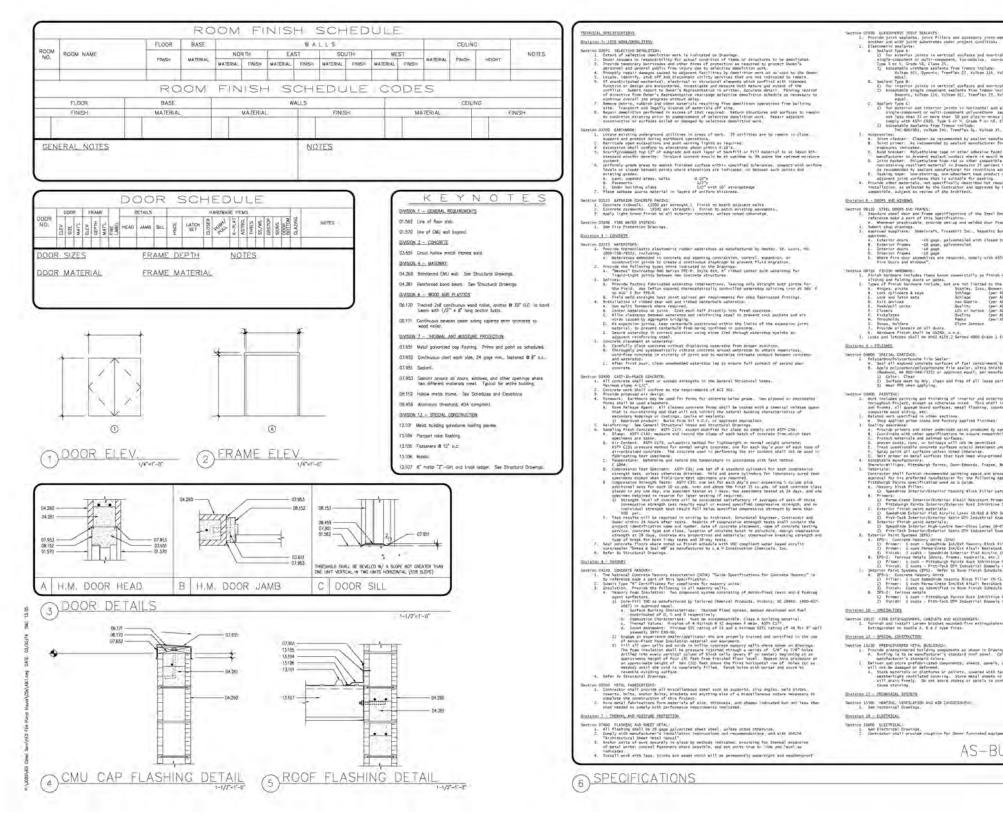


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ALL SPACE LOCATORS SUBJECT TO APPROVAL BY THE STRUCTURAL DURING. PROMOL ROW DONES AND TO MATCH YOU AND A POSTONIAL BARS AT ALL DONESDE AND DEPERTICURE AND THOMAL DEVICE. SERVICES AND SHARING CARE AND MATCHING DEVICES, SCHEL, VOISLA, SERVICES TO DURACION MIN STANDARD DO-DUDIET HOMAL DUDIES SCHEL, VOISLA, SERVICES TO DURACION MIN STANDARD DO-DUDIET HOMAL DUDIES SCHEL, VOISLA, SERVICES TO DURACION MIN STANDARD DO-DUDIET HOMAL DUDIES SCHEL, VOISLA, SERVICES TO DURACION MIN STANDARD DO-DUDIET HOMAL DUDIES SCHEL, VOISLA, SERVICES TO DURACION MIN STANDARD DO-DUDIET HOMAL DUDIES SCHEL, VOISLA, SERVICES TO DUDIES MIN SCHELD DO DUDIE HOMAL LAP STUDY, UNLAS NOTED STICOMES, SWAL IN CLASS "\$" TOBION LAP STUDY SHOTS FOR LATEST ISTICAL OF ALL SHA LAND IN WELFORD CHARGE SHALL BE WASH SS THAT HE DADLAR WEAKING BETWEN BETEMOST CHEES WELS OF EACH YARRE, BEET, IS ARE LESS THAN HE SHARRS OF CHEES WELS (51,12 5 MARK).

DEVELACK-DYNYADI SHALI KE SLOOI YE NON-SHONK OKDUT. YINE STAR OR LOLANARIYIS INSTAUL DYNYADI UNDER KANNO PLATIS RECORE FRANKS MUNKER IS SETULUT. AT CREMMS, HETALI DYNYADI UNDER RAZ PLATIS ATER THE STRUCTURE, STELL FRAME HAS BEDY FLAMMED BUT HILD: TO SUPPORTED SLOOM REAL MATALES.

STRUCTURAL STEEL ANCHUR WOOS

LAP SPLICES IN CONCRETE!

MICHIER REDS RULLER KERLEN, REARD, MICHIERARD, MICHIER

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EXPANSION AND EPOXY ANDHORS LL DRIVANCI ANCIENTAL TRE CONTECT HERITLATON DN. 7 94LL IK FEE SMP309 STREND SALT & BEDS MODING (25 ESS-SSE) DN AMMOND ISDINIST, ALL DRIVANCI DRIVANCI SALT & BEDS MODING (25 ESS-SSE) DN AMMOND ISDINIST, ALL DRIVANCI CC ESS-SSE) DN AMMOND ISDINIST, ALL ANCIENT (2007) ANOINED FOR CONTENT SALT BETS SMP309 TO THE STREND WITH DIAL AND IN THE AMMOND (26 ESS-SSE) DATE OF A SMP309 TO THE STREND WITH DIAL AND IN THE AMMOND IN ALL BETS DATE OF A SMP309 TO THE STREND WITH DIAL AND IN THE AMMOND IN ALL BETS DATE OF A SMP309 TO THE STREND WITH DIAL AND IN THE AMMOND IN ALL BETS IDDINALITY. ALL ANCIENTS BULL IN AFTILLIDE WITH STREE AMMOND IN STREED MALES AND INTERCEPTIONED IN AN ANALYCENERS BUDGANCHING.

COLD FORMED STRUCTURAL STEEL FRAMING

ALL GRO FORMED STRUCTURE, STELL FRAMER AND CONFORMED RECATED IN THE STRUCTURE, DESERVED SHALL BE FARMER TO AND RECTO IN ADDICARDS WITH MAUFACTURETS RECEINED AND REAL AND IN ACCORDANCE WITH THE LATEST REPORT OF ARCS STRUCTURES FOR THE CASE OF COLD FORMER THE, STRUCTURE, MARKET,

TRAMING ALL NEDACI TO BE PERFORMED BY BEIJERIG HOLDING A WALD CERTIFICATE AND RAMAG CARRENT EXPERIENCE IN LIDAT CALLER STELL. CENTIMICATES SHALL BE ISSUED BY AN ACCOMPTING THREE ADDRY: TO CHART THREE OF INFORMATION IN AN APPROVED ACTIVITY, UNIT AND ACCOUNT OF THE PERFORMED IN AN APPROVED ACTIVITY, UNIT AND ACCOUNT OF THE PERFORMED IN AN APPROVED ACTIVITY, UNIT AND ACCOUNT OF THE PERFORMED IN AN APPROVED

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16	24	5.0114*	0.0163
25	20	2/33/6	0.0304"
43	- 18	0.0447	0.0475*
54	19.	5.miev*	0.0590*
18	14	2,6713*	*0e10 d
117	12	0.0916*	0.1050"
116	- 12	3.1263*	D.1350**
195	· · ·	2145*	0.1500

SHOP DRAWNGS

SUP DAMAGE SHALL IS SAMITED FOR ALL STRUCTURAL TIDES IN ADDITION TO THAT BECARED OF MODIFICIAL MUSICACIONES, DAVIDATION GALL TROUGH A MINIMU SE 5 AND SEPT DAMATEL SITE IN EXAMINES DAVID STOP REVEY MALES ADDITION THROWSE IN MODIFICULAR STOPPACHAESE ELECTIONIC SAMITALE MALES ADDITION THROWSE IN MODIFICULAR STOPPACHAESE ELECTIONIC SAMITALE MALES ADDITION THROWSE IN MODIFICULAR STOPPACHAESE ELECTIONIC SAMITALE MALES ADDITION TO A

THE CONTRACTOR SHALL REVEW ALL SHOP DRAMINGS IN ON TO SUMMITHAL TOPS NOT IN ACCORDANCE WITH CONTRACT DRUMINITS SHALL BE FLADED UPDN CONTRACTORS REVEW VEREY ALL DIMENSIONS WITH MICHIELEN

MANUFACTURED OF VARIENTIATION SINGLIGUADA ANT OWNER AND YOUR CANDITONIE (YOU CONTRACT DOCUMONTS - WHICH CONDUCTIONS) WHICH COULD DE FLACOD BY EXAMITING HARTES, SALE ANT BE CONDUCTED APPROVED ATTCR DOCUMENTS WHICH ANALYSIS HOLD ACCOMPANY.

THE ENGINEER WAS THE RIGHT TO APPROVE ON DEAPPHONE MAY DRAMED TO DIVITIANT DODUMENTS AN ANYTHINE BUIDDLE OF ATTEM SHOP DRAMED, REVER WE WERE DAVANDED DO KET REPLACE THE EXHIBACT DODINENTS. TEME DAVIDE OF SPORA HEDRIFECT F. MO. ARE NOT TLAZED BY THE TREATMENTS. TEME DAVIDE MONITOR DAVIL, NOT BE CONSTRUCT DO KOMMENT DO KOMMENT OF THE TOOLERANT RETRY RESULT TO EXHIBIT FOUR ARE CONSTRUCTED TO CONTRACT BOOMENTS.

THE ADDALACY OF ENDINEERING DOCIDINS AND LAYOUT PERIODINED BY DIVERS WERE WITH THE DESIGNING DR SUBMITTING AUTHORITY. REVENUES INTERDED THET AS AN AID TO THE CONTRACTOR IN ORTAANING CORRECT SHOP THANNES. RESPONSIBILITY FOR DOWRECTARTS SHALL REST WISH THE CONTRACTOR

GENERAL NOTES:

NUMERAL RULES: WE STALLARS ADDRESTING SOCIARISTI REPRESSI Y NE FAMILY TRUTTING. CERTI-WERK AND THE TO AND ADDREST IN WEINING TO FIRST RULES. MALE MINOR ALL AND ADDREST IN WEINING TO FIRST RULES. REPLETE ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS TO LUDGE DU TO CONTRACTOR GUINNAL OF THE STRUCTURE INCIDENT TO ADDRESS AD

WHER RUTERIC IS WHE TO WHIGH TIST STANDARD FOR WHITHALS, SICH STANDARD BALL IS THE LATUST FORM AND DR ADDREAD. HAY PROVIDENCE OFFICE THERE AND SEARCTED FOR WHERE BALL READ FOR ALL OF A RESTRICT POWERS RECORDED IN THE RALENCE OF A MERCHINA OF THE POLICY.

RECORDED IN THE RANGE CORE AND COME AND COME PAGE. THICKS DETAILS BAT NOT REQUISIONLY IN OUT ON PLANE, BUT APPLY UNLES NOTED

EDISTRUCTION MATTRIALS SHALL BE SPREAD OUT IF PLACED ON PRAVED DONSTRUCTION DAW SHALL NOT EXCEED THE DESIGN INE LOAD PEY SQUARE POOT BYTOMS AND YON CONTINUEDRIS DOWNERSHOE IF AN OFFICIA IS DROVEN, CONTINUEDRIS SHALL BE RESPONDENT OF ALL INCOMENTS AND THE ADDRESS AND THE CORRESPONDED OF THE YOOM YOF ALL REALTING VALUES AND THE ADDRESS.

Applies unless noted otherwise on drowings SPECIAL INSPECTION - STRUCTURAL DNLV

CONTACT DARUED ARRIVE SCOTT, INC. AT 480- 174-1700 PROM TO CONSTRUCTION PEDAL WERKENDE IS TO BE PEONED FOR THE LEGIS LEEDS SECURE A ROUGH TO THE MERKENDE DECICED BY THE BUILDING AMEDICIN. "SEGUE STALL THE RECEIVE AND AND ADDITIONS DECICED BY THE BUILDING AMEDICIN. "SEGUE STALLTING. WERKENDE ADDITIONS DECICED BY THE BUILDING ADDITION OF THE FULL AND ADDITION ADDITIONAL AND RECEIVED FOR DEALERS IN THE FULL AND ADDITIONAL RELEASE DECIC CONCRETE CONSTRUCTION

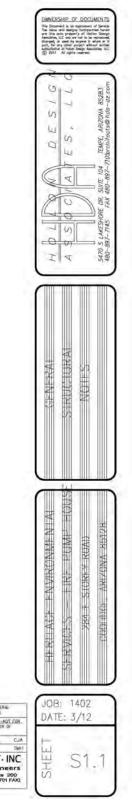
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ЭНСАК, LONLOY C., CANEDAL, MO STREW MONORS, BURNO HE FUZZIORI O' NU AND DESTRUMINA DIAMONG TRANSMITTO THE ADVANCEMENT OF THE THE THE THE ADVANCEMENT OF THE SECOND DIAMONG SECOND DIAMONG SECOND DIAMONG SECOND SECOND DIAMONG SECOND SECOND DIAMONG SECOND SECOND DIAMONG SECOND SEC

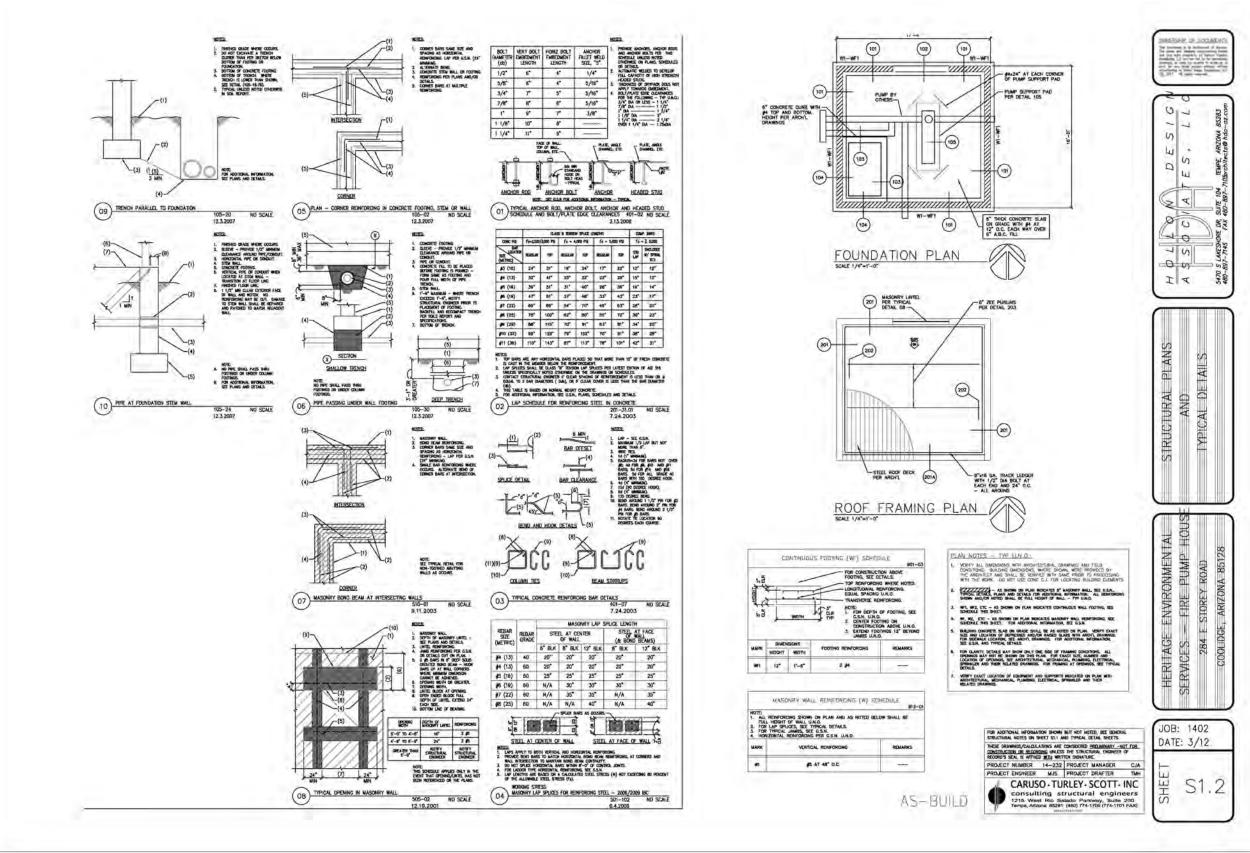


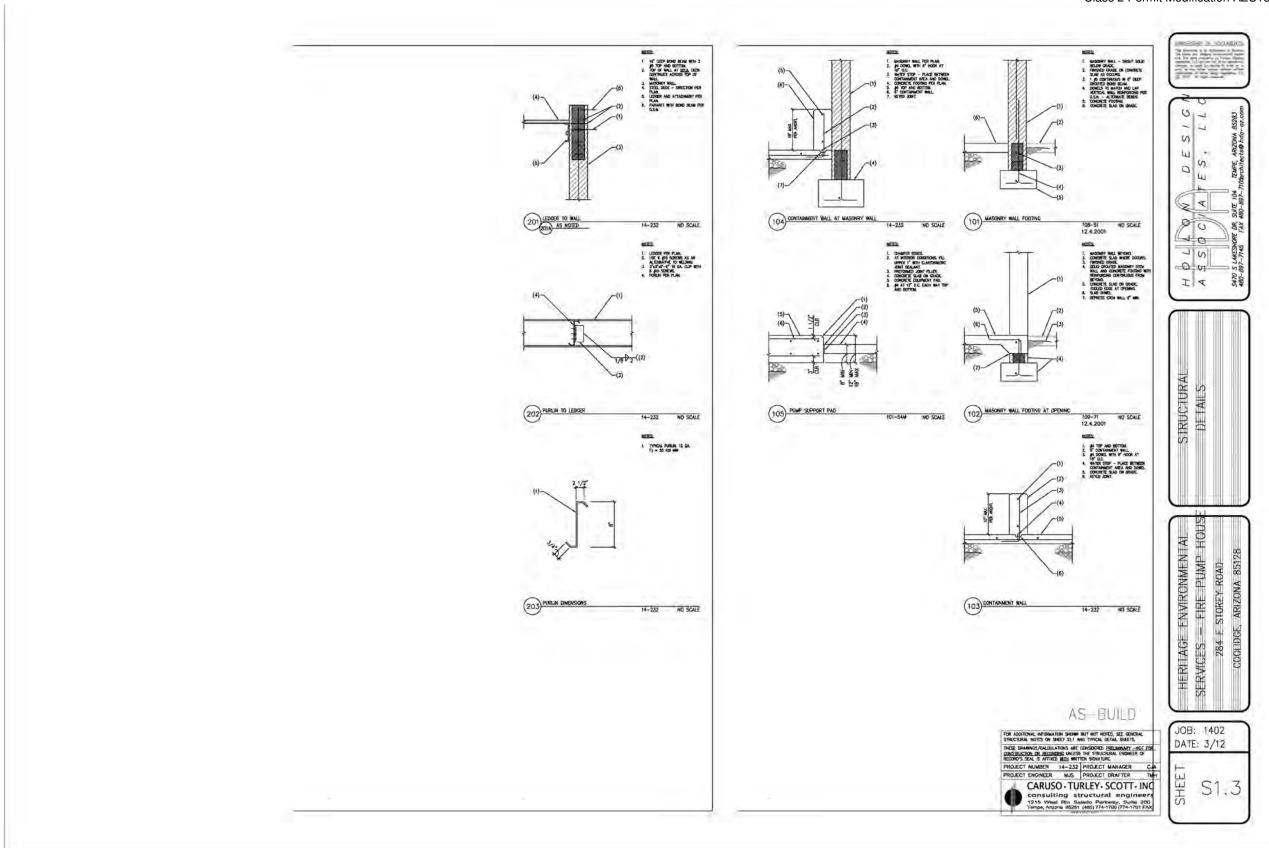
Heritage Environmental Services, LLC AZD 081 705 402 Procedures to Prevent Hazards Class 2 Permit Modification AZC15-1, Rev. 2, June 2015



AS-BUILD

FOR ADVITIONAL INFORMATION SHOWN BUT NOT NOTED, STE GENERAL STRUCTURAL NOTES ON SHEET STIT AND THPOLE DETAIL SHEETS. THESE DRAWNOS/DALDLATIONS ARE DONSDERED PRELAMMARY - NOT FUR DONSTRUCTION OR RECORDING LALESS THE STRUCTURAL DIGNETER OF REDORD'S SEAL IS AFTHED WITH WRITTIN SOMATURE. PROJECT NUMBER 14-232 PROJECT VANAGER CJA PROJECT ENGINEEN WJS PROJECT DRAFTER TMIT CARUSO . TURLEY . SCOTT . INC consulting structural engineers 1215 West Ric Salado Parkway, Sulla 200 Tempe, Atzona 86281 (480) 774-1700 (774-1701 FAX)





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MARK	LOCATION	SERVICE	TYPE.	MATL	MANUFACTURER	MODEL NO.	W XH XQ	FINISH	REMARKS
1-1	FIRE PUMP ROOM	VEN TILÀTION	MOTORIZED ADJUSTABLE DRAINABLE	STEEL	RUSKIN	LC63750	24" x 24" x 6"	GALVANIZED	000
L-2. L-3	FIRE PUMP ROOM	COMBLISTION AIR	MOTORIZED ADJUSTABLE DRAINABLE	STEEL.	RUSKIN	L063750	24" × 24" × 6"	GALVANIZED:	000

() STORM PROOF DRAINABLE

(2) INSECT SCREEN, MATCH MATL TROVIDE SHEETMETAL SLEEVE FOR LOUVER, BLADES AND MOTOR MOUNTING

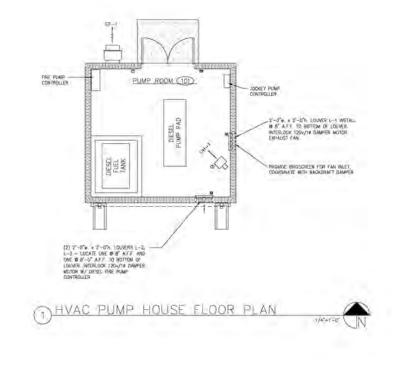
PROVIDE MOTORIZED DAMPER

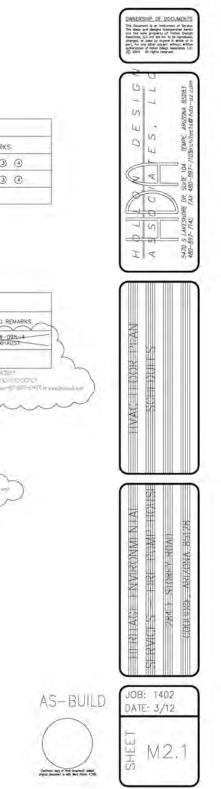
FAN SCHEDULE ACCESSIBILES DAMPER, BIRDSCREEN, DISCONNECT S.P. MAX NAK ELECTRICAL DAMPER ROOF/WALL WEIGHT SIZE (IN.) DPENING (IN) (#) TYPE HODEL AND REMARKS DRIVE CFM MARK CENT BELTED 875 .25 1549 12.4 1/4 HP 12x12 12.5x125.5 100 GREENHECK CEW-098-4 EF-1 Medico Ionico Atlet 5 - Consistino Icocord 1 mili Alere Paretti Children 1. PROVICE T-STAT AND CONTROLS FOR SUMMER VENTILATION WITH LOUVER MOTORIZED DAMPER AND EXHAUST FAN INTERLOCK.

MARK	TYPE	HEAT INPLIT (KW)	CFM	ELECTRICAL	MODEL AND REMARKS
URF1	HORIZ. PROP	7.5	500	1/20 HP 480¥/3#	WEZNOR EDE-7
	1			1	The Britsback Second Care 200 has

1. MOUNTING HEIGHT 8-0" AFT

2 DRIVIDE BOUNTING HARDWARE 3 SMLZ STAGE UNT VOLVIED 1-STA1. SET PONT AT 45 (ADJUSTABLE) 4. PROVIDE MIERAL PORCE POSCIMENT M/OVER.CAD PROTECTION FOR BOTH TAI AND ELECTRIC HEATING DOL





_	ELECTRICAL SYN	_	SOME SPECIFICATIONS MAY NO	T BE USED FOR THIS I
	SOME SYMBOLS AND ABBREVIATIONS MA	r NO	IEL USED, FOR THIS PROJECT. I.O DITELL Service and previous bitmess, bitmess, Service and previous bitmess, bitmess, Service and previous bitmess, Serv	4.5 TESTS
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	NENDATES HONORUN.	24	DOWLATOR - FUNCENTIAL SHITCH ALL CONTINUES AS A REPORT OF BOLL OF THE CONTINUES AS A REPORT OF BOLL	ADDPTING DRUPA (BM
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鐵圖 ;	FLISH FLOOR FORCE GUTLET - WITH JOA SHOL GRADE RECOMPACIES DURLER ON FOLIATIEK, HUMBLE, THOMAS & MITTE, CARLON OF EQUIL.		H ABBREVIA DOVIS. IN STORED WITH A RECOMPLICATION OF A RECENT OF A	F.3. CERTAIN AND CONTRACTING F.3. CERTAIN STATUS AND CLASS AND A WITH A AND CLASS AND A WITH A AND CLASSING AND A THE CONTRACT OF TAME OF CONTRACT OF TAMES OF CONTRACT OF TAM
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00	ONDE COND POINTS OUTLET - MITH JOA SHE'C DRADE RECOFTAGLES OVELER ON YOURHLEY. NUMBLE, THOMAS & MITTS CARLON OF EDUAL.		ASSAULT SEE 5 1/2" HO S/4" FOR HOM WIRE	PANEL AND CHELAT ALLARD
西 :	"J" BOX FLUER MOLANTO IN WALL FOR SYSTEMS FURNITURE PONCE, COORDINANT CALCT	100	Australian (2000) 12.0 (27.0 or 52% of 27.0 or 52\%	75 ML PARTS BARREN WILL DAT
en u	"J" BOX NUMPTO IN HALL ON SYSTEMS THEN THE PONER, COOLDNATE DEACT COOLDNA AND REQUIREMENTS WITH SUPPLICE FROM TO REACH-INA DESCRIPTION. CONTRALTON & SETSTONDER FOR PINAL CONVENTION TO STITEM FUNCTIONE.		AND FAULT ENBART WITHOUTER IN AND THE ADDRESS OF ADDRES	11. ADDITARU ALAUGUDIARD SHALL OF THE RECEVENT IN A MALE OF THE RECEVENT IN COMPONING MALE AND THE COMPONING MELONATION THEORY MELONATION OF A STATE OF THE DIAL OF STATE OF A MELON TRANSFORMED IN COMPONENT IN AND THE ADDITARY AND THE DIAL OF STATE OF A MELON TRANSFORMED IN COMPONENT IN A STATE OF THE ADDITARY OF A STATE OF A
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	D. LIGHTING		SROAM 74LL* CADUTT ATOMICATED AND A DESCRIPTION OF A MEDIA OF	ALL PRIME TO BE RETAIL
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7.7 LANS ALL FARELS/TRANSFORMERS/DECONCETS WITH "MANAGE" - DECIMICAL EDURARIAN - DANAEL - GUILATED PURSONNEL DILT TO OPENATE DR OPEN EDURARIAN 18 SECONDERT NUTCHES WILL BE COMPERCIAL BUTT SUCK-WARE, GARD-BEAR, HOREFORER RATES, REAL 1 RECOR, REAL 28 GARLETEL (NO NEWA 12, OR NEWA 1 KO APPLICASE, WITH TUROS FOR DRAMME.

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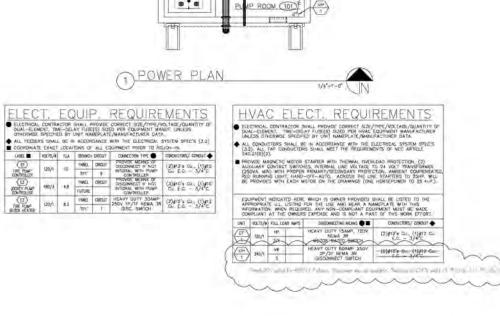
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AMAGE: A & A J. DISTRODUC DWWARE BALLATIS SHALL HAVE A DAMANE BANES FROM HORS TO HER ELEMENANCE UTVE: W A Y. ACCEPTABLE BALLATE BAREN HOLMONIC AN ACCEPTABLE BALLATE BAREN HOLMONIC AND ACCEPTABLE BALLATE BAREN HOLMONIC AND ACCEPTABLE BALLATES SHALLATES SHALLATES ACCEPTABLE BALLATES SHALLATES SHALLATES ACCEPTABLE BALLATES SHALLATES ACCEPTABLE BALLATES SHALLATES ACCEPTABLE BALLATES ACCEPTABLE BALLATES SHALLATES ACCEPTABLE BALLATES ACCEPTABLE


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DUAL HEAD INENDENCY BATTERY PADA, SEE LIGHTING HIMLINE SCHEDULE. FOR SPECIFICATIONS

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figicii fi	
	PLAP ROOM (10)
PLAN	
LAN	1/4*#1-0" (N
NTS	HVAC ELECT. REQUIREMENT

ONE-LINE DIAGRAM

GENERAL NOTES - POWER

THE DRUT DRIVETORS. RECEPTACES CONTO WITH # "-0" OF SHKS OF WATER SHALL BE DRUTTED ON THE THE RECEPTANT OF THE RECEPT SERVICE OF THE THE RECEPTANT OF THE RECEPT HIGH TO ROUGHT, WHEN DEVICES TO WOLDER WALL OPDIMATE THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE DAVID OF THE RECEPTANT OF THE RECEPTANT OF THE DAVID OF THE DAVID OF THE RECEPTANT OF THE DAVID OF THE DAVID OF THE DAVID OF THE RECEPTANT OF THE DAVID OF THE DAVID OF THE DAVID OF THE DAVID OF THE RECEPTANT OF THE DAVID OF THE DAVID OF THE DAVID OF THE DAVID OF THE RECEPTANT OF THE DAVID OF THE RECEPTANT OF THE DAVID OF

(B)

REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLICATIONS

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LUMINAIRE SCHEDULE

PROVIDE DO MINUTE EMERGENCY BATTERY BALLAST FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BILLOW FOR SPECIFICATIONS AND LUNEN REQUIREMENTS.

3. BASE BU FOR LUMINARIES SHALL BE BASED ON MANUFACTURERS LISTED IN CONTRACT DOCUMENTS. LUMIN ARABO OF MOSICIT. ALTIMATES FACINGED BY CONTRACTON BALL BE SUBMITED MON MOTION, DMICE APPROXIM. S. M. NETWATED CELECT TO INSC BUD.

A ALTERNATE TO ATURE SELECTIONS WAY REQUIRE ADDITIONAL THE FOR SUGARITAL REVEN & ROSHING ENGINEERING DESIGN CHANGES, TO THE RELETS TO THE CONTINUETORS 5. PROVICE MINIMUM IN MANUTE THE DELAY IN EMERICACY PUTURES WITH HIS MICH.

EMERGENCY BALLAST SCHEDULE

 The DL
 Time (RNC or (DAL
 Time (DAL

L1 UHONA 20-02005 100 2-020 5 WET LOCATION SURFACE MOUNT LICK-200-120-02005 100 50W STRIP WITH 2 LAWPS

WANUFACTURER VOLTS UNITS

WASK

UNIP WANUFACTISHER WHINKIN & OF UNIVER WANUFACTISHER MINIALAU & OF UNIVER WOOD, NUMBER UNIVER UNIVER UNIVER UNIVER UNIVER UNIVER UNIVER

WODULAR WRING SYSTEM FOR LIGHT PIXTURES IS AN ACCEPTABLE ALTERNATE

	LUDWINATION
n	UDIT SWITCHES SHALL BE INSTALLED TO CONFORM TO NEC WITHOLE "SWITCHES - ADDESSIBILITY AND DROUPING".
9.	ALL INDOR'S FLUDRESCENT FINTURES WITH DOUBLE ENDED LAMPS SHALL HAVE NITIONAL DISCOMMENTS.

- ELECTRICAL CONTRACTOR TO VERITY A MINIMUM OF 1 FOOT-CANDLE AT 1 FOOT ABOVE FLOOR ALONG ENT PATH PER HIG ARTICLE "MEANS OF LORESS
- ALL RECENTION OF THE RECENTION OF A DECENTION OF A
- ALL INVITES INSTALLED OUTDOORS SHALL BE HATED FOR DAAP/WET LOCATIONS AS REQUIRED. THE CONTRACTOR SHALL ODORONATE DAAP/WET LOCATION RATING AND WESTALLATION FOR NEC ARTICLE "TWITTER LOCATIONS"
- LOCAL I
- HT/EMERGENCY LICHY TNL/PEN) FIXTURES SHAL IF NO EMERGENCY LIES SAVETY SYETEM IS NO 4(c). THE OUTER LAMPS SHALL DE CONNECTE NIG CHEURT AND COMPETED VIA AN EMERGEM ULL LUMEN OUTPUT NIMIMUM PROVIDE NEW IF

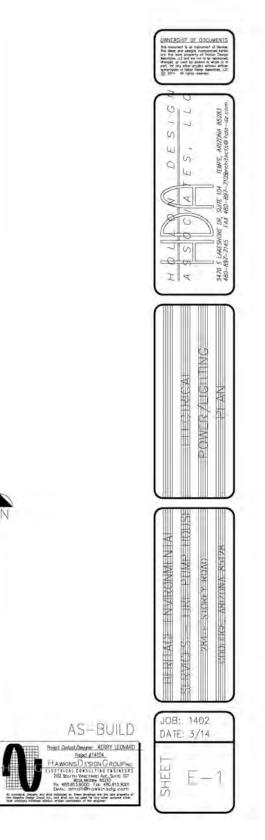
- COMPLUSE CONTRACTION. GARLIANDES. IN ELECTRON. CONTRACTION JANUEL (PROD. TO HIS BD) a) VIST THE SHE ME AND ADCOUNT AT ALL THE CALL (PROD. TO HIS BD) a) VIST THE SHE HIS CONTRACTION OF A SHE AND ADDRESS AND ADDRESS AND ADDRESS IN A DACOUNT AT ALL THE OF DIA TO CONSCIENTIONS WILL BE CONNTED TO CONTRACTION ATTEMPT IN THE ADDRESS AND ADDRESS AN
- REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS AND COMPLETE CONTRACTUAL OBLIGATIONS.
- GENERAL NOTES LIGHTING

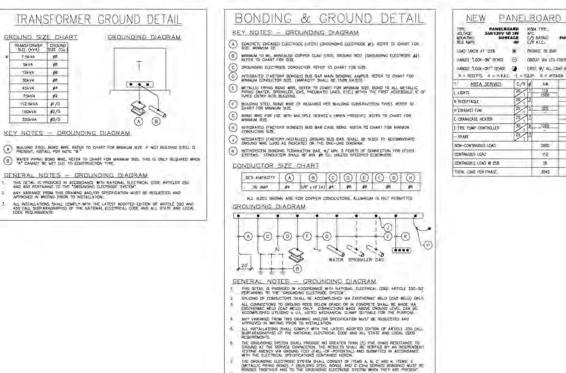
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REMARKS/NOUNTINE

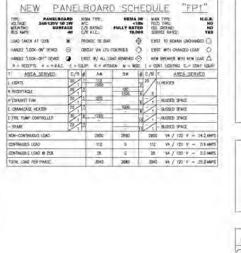
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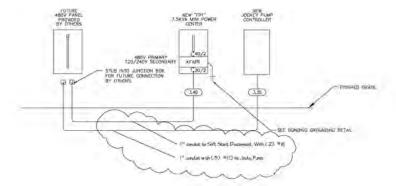
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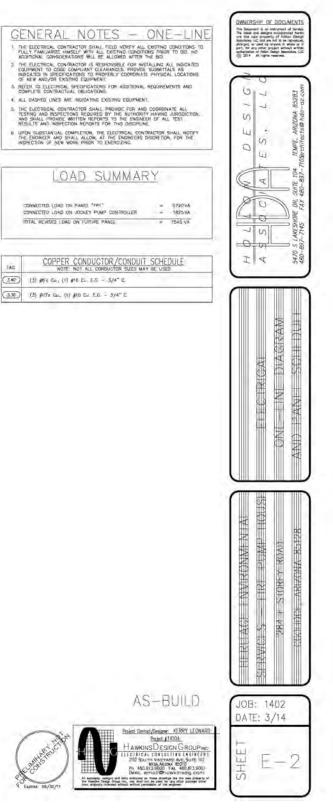


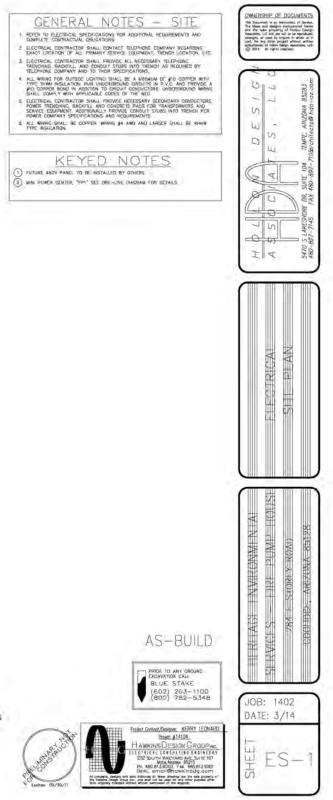


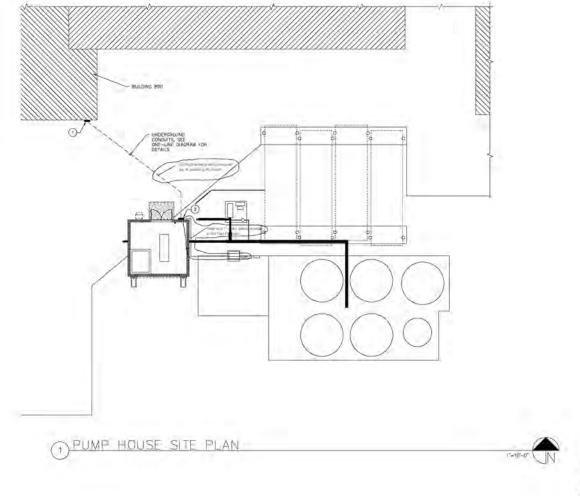
TING A COLO AND I WHEN PRESENT, SHALL CADI BE MARK IN MERAPATI CONSTITUTE AND SUITARY PROTECTED BY CONDUCT WHEN EXPOSED TO CAMARE OF THEFT.











AS-BUILT ALARM AND DETECTORS

BILL OF MATERIALS (BOM)

NET	51%	an	PART NUMBER	MILLE: WUMBER	DESCRIPTION	MANUT ACTURES
1	ाच्चर	1	74-600000-001	EN6000	SUPPRESSION CONTROL PANEL	FENWAL
2	1	4		12V-12AH	BATTERIES	
3	0.	115-1	71=402001=100	PSD-7152	SMARTONE PHOTOELECTRIC DETECTOR	EENWAL.
4	1	T	70-400001-100	8SH	6" UNIVERSAL DETECTOR BASE	FENWAL
5		20	70-407008-301	AL.	ADDRESSABLE CONTACT INPUT OFVICE N.O.	FENWAL
В	D	4	09-16	asib	BEAM DETECTOR WAGER, 10'	XTRALIS
7	-	- 6.	09E-9P	USID	BEAM DETECTOR EMPITER, STANDARD PUWER:	XTRALIS
6	1.1	- F	05D-INST	050	HEAM DETECTION INSTALLATION KIT	XTRALIS
9		6	30-330002-001	-	ADDRESSABLE MANUAL PULL STATION	FENWAL
10		3	30-195001-001	508-325	BACK BOX FOR MANUAL FULL STATION	FENWAL
71	100 ×	10	P2R	100	HORN / STROBE 24VDC, RED. WALL	SYSTEM SENSOR
12	2 4	1.1	P2R		W.P. HORN / STROBE 24VDG. RED. WALL	SYSTEM SENSOR
1.5	100	3	HPTTE	-	BA SNAC PANEL/POWER SUPPLY	F组
14	1	-				
15						
16						
17	1					
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19		-				
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21						
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30	-					

NPUTS

CONTROL PANEL MATRIX OF EVENTS

RESPONSES

	WIRE SCHEDULE	
100E	DESCRIPTION / FUNCTION	la TRAP(
<i>k</i>	2010 TH LACKETED HAR. FLC 100H, MID-CHRACTANES	#
	YEAR HORE SHARE ON AND THESE CAT'S	PHER- BUILD
<u>n</u>	2046, TORNA OR AUX COMMISSION	BILEN - 8220.0
0	ZOUTO, MODULE NETRATION OCT.	BILDIN - h2201
τ.	scyle tw. SH. PR., SYSTEM RVS	30200x - 82845
44.	HET LOCKTON, DOU'LG THE JACKETED PARK SLC LOOP	WEST FERN ADDE
05	whit Location, popul, power bit aux convection	WEST FENN - ADJO
33	WET LOCATION, ROPIE MARKLE WITHTIDN DWT	wist rink - Age
ΩT.	WET LOCATION. 20016 TH. SH. PR. SYSTEM BUD	WEST PENN - A029

UNE UNEXALLED WHE UNLESS OTHERWISE ADDED, ALL BRIDLING MUST BE THID THROUGH, RELATED, AND TERMINATED, IS USED WAST NUMBERS SHOWS AND THE PLENAW MATER CARLS, F IN LONGLEY ON IT WAST, AND CARLS AND THE UNITED WITH AN ADD DO THE P

4010 MAC (NO.) (BRNG HAL HOLN CHICKATE) FOR YOUTH CHICK ONOP WHO CHICKET CHICK THE BRNG OF AUXIMUM OF DISTORTS IN A DISTORT DOLL THOUGH TO AUXIMUM OF THE DISTORTS IN



DETAIL REFERENCE

TYPICAL ADDRESS DESCRIPTION

SLC I DOL NUMBER

255 WORKSS

(- att)

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nt all detectors as high the ceiling as possible.		100	Ally	Max	
nt all notification appliances constant height, as low as	permitted.	MIN 0 00	AND R-	0	
to center when both cudible ble/visuol ore used.	k	N		1	
laes] (Å		1	
FCP (10-3)		12.0.7		10	
	E-	00"	80" 10 99	÷11	
	48"				
ENGHER FLOOR	4 4	1.1	1.1	1	
and a state of the					
d ching mounting of smoke de wing height is c12' and Dc1' or ng height is >12' or [2:17' -			AVEN B	if poor a	
sering height is >12 or 0.11 - mend cellings, mount che pu 0 is weed to or less that \$7, r	locior within 3 ha	riantidity of the i	2118-		
lef" and Self' or H De4" to H	1" out Bir 3' 10 P	" - Nouri bud i	angelar in loose	in 1, in 1921	(Proces
other beam or joint configuration	ell - Mount Nett -	depending for lacially	by 3 Los 3∕4 ;	and -	1
(MIIT and SS81 - Maint risk t other beam at joint configuration intered cellings, mount, and det	2' one by 3' to f elector le location a - Mount Host estar within 3' rap	 Nouri hydi i 18, in weth "pul disetting in lacolii 	eal ^r av is une in∕d a		800

ELECTRICAL NOTES

7 NSTALLADON BHALL COMPLET WITH 1074 TO, PMITHOULARLY ARTIQU 780, AND SHALL ALSO DOWN'T WITH NEPA 72, AND ALL 10CAU ELECTRICAL CODES AND LOCAL JURGECTION REQLIXIONNYS.

IT WRING KUNS INDICATED DN FININ'IS ME DAGRAMMADE MID ÁRL NOT WIENODD ITD BE EXACT CONDUCT RUNS, WIEND SHOULD BE REIXOUTED TO MEET FELD REQUIREMENTS BY INSTALLING ELECTRICAL

AC POWER SHALL NOT DECLIPY THE SAME DONOUT AS THE WOTTOTHA DIRELITS (MOST THE DUTT ON OUTS WAS AND DLASS 3)

(3) CONVENTIONAL FREE DETECTION WITHING SEVERE CARGES DE MOTIFICATION MERCIANCE, DECUTS SHALL NOT BE HEARINGE (ERMICHES) TOT BURNED ID DAVIDES SERVICEMENT MARKEN, CANDISCANES, CARGES TOT DE EDITECTION BOOMING LINE CONDUCTE (MULTI MARK DE PARAMENE). REMARDED (TET TARRED) DE 20 MICENTES OF THE STETTION VARIA.

B) Deserve Pockneth Dr. ALL THE DETECTION WIRNED, POCKNETY SMALL (# WARTANED THIRDLEYOUT ENTIRE SYSTEM: WHE SYALL HE WARNED (MA) INVALUE) WILLE SPLICE (MIC 47 4NY GALERAY BODES. I) THE THE ALARM PANEL GROUND SHALL BE A SEPARATI LEWERNIGHT BROWD WIG BACK TO THE SOURCE ORDING, CONCUT REDUND 18 NDT WIGDTEASE, PER MANUFACTURER'S SECONDATIONS.

8) ALL FIELD WENCE SHALL BE DEEDKID FOR SHDETS, SHOLMDS, & MEDERE DND D'LINE MESSTOR (DOL WALLES TEFORE SCHOLLINE WESTOR: FOR SYSTEM DIEDKID OLD FOLLOWIST DATABASE HIGT PESSENT TO MESSTORY TERMIDAL UPON MITAL ABRIVAL DR STE, MEDINE ASTIMUT A MEN DI WENC MOTE PROVI DO VOICE DUT.

9) FIG. ALARM HAND, AND RAF DO THE PER DITTION DUMMENT IEDURNO (2004C, SHALL IS SUPPLIED BY A DUCATE COURT MOUNT INTO NON-TERMINED INTO A DUCATION OF AN ADDRESS AND RESULTS). THE BELARD PARA UNDER SHALL AND SAME THE THE ALARM DESCRIPTION OF DUCATE DUAL BY COURT OF AND ADDRESS THE ALARM DESCRIPTION OF ADDRESS AND ADDRESS AND ADDRESS THE ALARM DESCRIPTION OF ADDRESS AND ADDRESS AND ADDRESS ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS ADDRESS ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS ADDRESS ADDRESS AND ADDRESS AND ADDRESS AND ADDRESS ADDRESS ADDRESS ADDRESS AND ADDRESS AND ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS ADDRESS AND ADDRESS
TO POWER STALL NOT BE ADDLED TO THE THE ALAMA RAKEL UNLESS A BETWEEN WEATHY FROM WEATHY IS DIVISION ALL

DESIGN STANDARDS: NFPA (CURRENT): 70,72 MANUFACTURES GUIDELINES UFC (1997) STATE OF ARIZONA

ROJ	ECT INFORMATION:
NAME:	HERITAGE ENVIRONMENTAL SERVICES, LLC.
SITE	AREA 600 8 600 284 E STOREY ROAD COCULGE, ARIZONA 85128
AREA:	APPROX: 18,500 SF

PROJ	ECT INFORMATION:
NAME:	HERITAGE ENVIRONMENTAL SERVICES, LLC.
SITE	AREA 600 & 800 284 E. STOREY ROAD COOLIDGE, ARIZONA 85128
	ADDDOX: 45 FOR OF

MBER: 401-21-0338

ENERAL NOTES

15 NOTEY WESTFILE OF ANY DESCH QUESTIONS OF CHARMES TRION TO INSTALLATION ON LABRICATION. COMPARE ORAMINOSI WITH LUMINONT CONTRACT TRAVENUS (1990) TO INSTALLATION.

I) INTERENCE FACTORY INCOMENTIAL MANUALS DURING INSTALLATEN OF FRE CONTROL EQUIPMENT. A) detectors shall not be medivito in a direct an stream on not pistall detections within $Y\!=\!\!0^{\circ}$ of an supply opticities

6) DO NOT INSTALL DETECTOR HEADS (INTL TINAL DUCAMINE HAS BEEN PERFORMED. 7) FIELD DETERMINE INTERFACE REDUITINING IN AND LOTATION DURING DU COUNTERNI SUMPLIED BY OTHER TRADES, (16, SPINNULE DEVES), IVAC-UNITS, FRE DAMPERS, ELEVATOR CONTROLS, & FAN CONTROLS 1

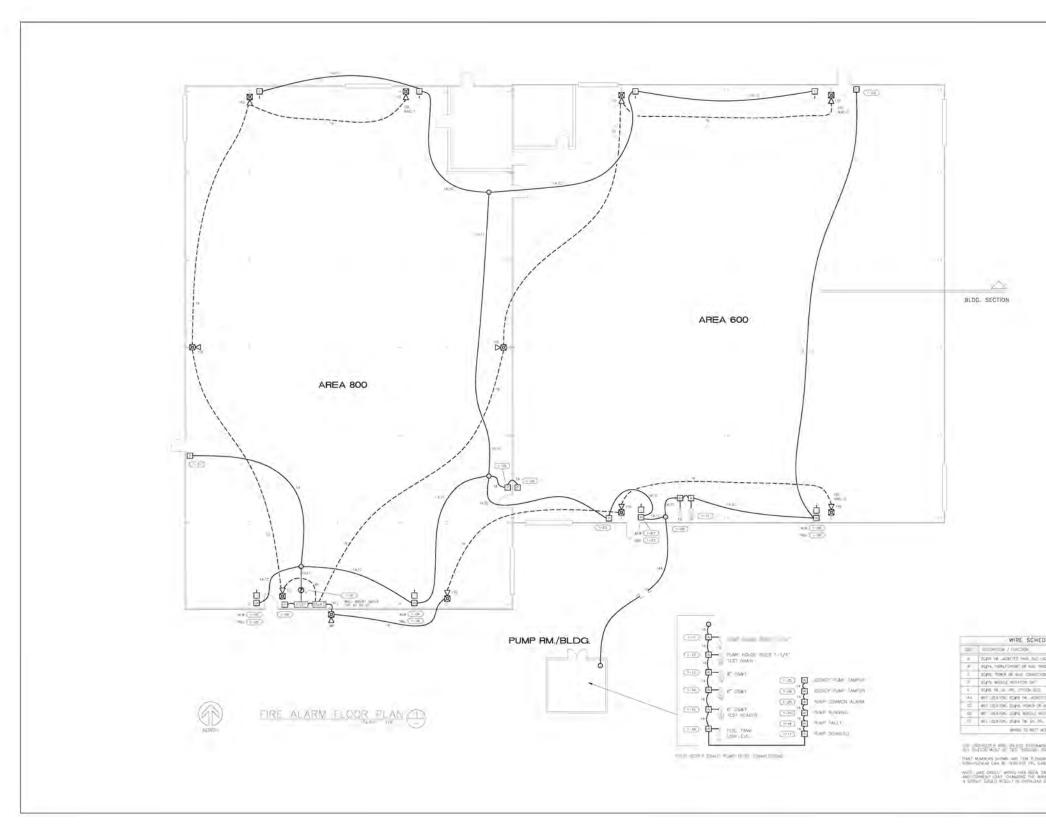
6) LISE (ON) 9 U.C. USING CONCERST

CITY OF COOLIDGE, PINAL COUNTY (AUTHORITY HAVING JURISDICTION)

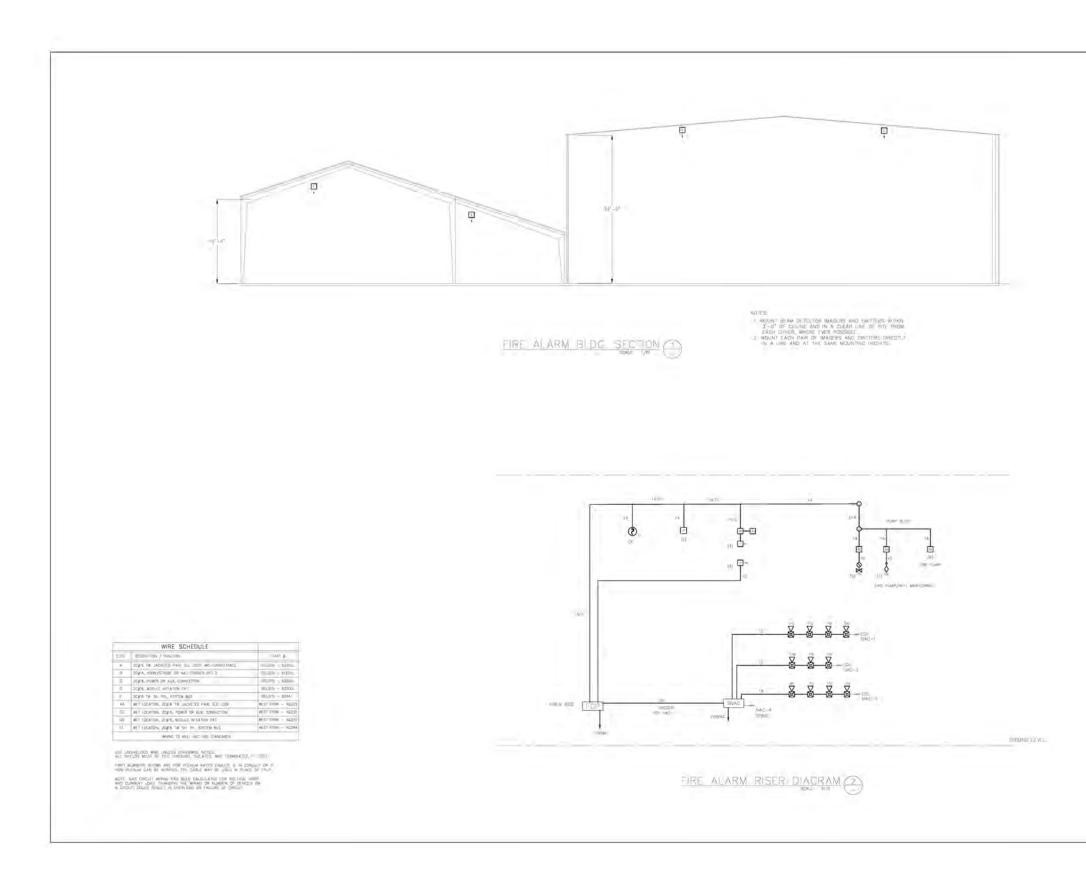
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7	1 -	- 6 ·	Q96-90	USID	BEAM DETEDTOR EMPITER, STANDARD POWER	XTRA
5	1.0	- F	OSID-INST	10510	BEAM DETECTOW INSTALLATION KIT	XIRA
9	•	6	30-330002-001	-	ADDRESSABLE MANUAL PULL STATION	FENV
10		3	30-195001-001	508-325	BACK BOX FOR MANUAL FULL STATION	FENV
71	100 ×	10	P2R	-	HORN / STROBE 24VDC, RED., WALL	SYST
12	2	1.1	P2R		W.P. HORN / STROBE 24VDC. RED. WALL	5751
1.5	100	3	HPITE		BA SNAC PANEL/POWER SUPPLY	F (C)
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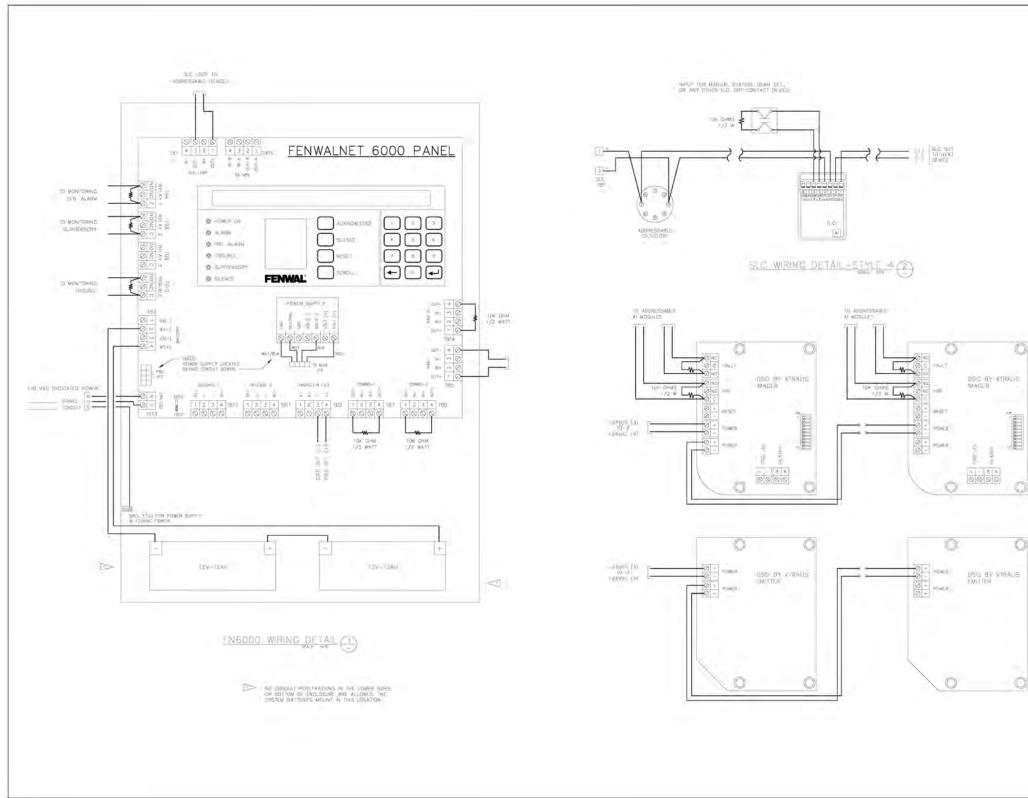
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DESC PRESS PRESS PRESS - BATTR COR		3			×	
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					1.1	

TUMPI, AZ 82284 PHONE (480) 303-99111 CONFERCIONE (10ENS) NO 1=10 (058534), L=4 (60077843	ESTERE
	
5122 E, STOREY ROAD COOLDCE, AZ, 85228	HERITAGE ENVIRONMENTAL SERVICES, ILC FIRE ALARM SYSTEM
Π	ta REVISION - RESERVENT REVEN AS-05.07
	No. No.
B.O.M., MATRIN, & DETAILS	100 area area area area area area area ar

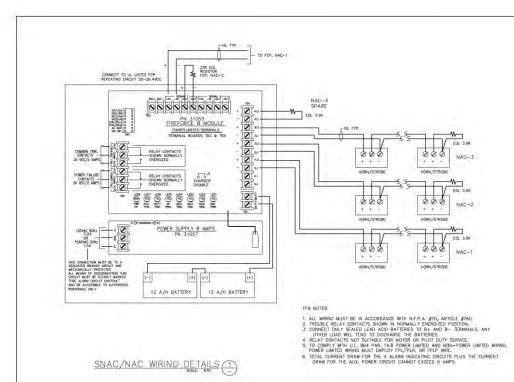


		AND STATISTICS AND					CONTINUE/ICON NO 0 1068014 - 5 400118450
		THERITAGE ENVIRONMENTAL SERVICES, LLC FIRE ALARM SYSTEM 5122 E. STOREY ROAD COOLDGE, AL. 15228					
		AND DAME AND	a c-c +4 A0 - curb cs g/um				
d1Md	1004(§) € 6109 - 55204 € 6109 - 55204 € 6109 - 61204 € 6109 - 61204 € 6109 - 61204 € 7196 - 6420 7196 - 6420 7196 - 6420 7196 - 6420 7196 - 6420 7196 - 6420 7196 - 6420 7196 - 6420		MALAN WAVE AL	THE WEIGHT STORES		ROM WATRIV & DETAILS	
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	WESTFIRE All States (1997) 40, 201-201 (1996) (1997) 201-201 (1996) (1997) 201-201 (1996) (1997) 201-201					CONTRACTORY LICENSE NULLER ADDRESSE - 5 ADDRESS
	JII SAJIAdas IYANAMNOGIANA AJYAIAAH	HEALLONG BUY INVESTIGATION SUMMAND.	FIRE ALARM SYSTEM	the state of the s	5122 E. STOREY ROAD	LUULIDIE. AZ. 89228
	NO. DATE PER REVISION	- 5-15-13 401 - 101 - 201 - 201	1 1-120-14 HB - WE-BD1-4			
	ľ	FIRE ALARN SVSTEM			CONTROL PANEL WIRING DETAILS	
	COL	PRO	NG 7	NUM	D	



JOB NUMBER:	-					
JOB NAME:		Heritage Environmental				
APPLICATION:		Fenwal Net 6000 FCP	1			
DATE:	-	05/15/14				
REV: 1 REV DATE	<u> </u>	08/28/14	h			
Device/Description	Taiv			In		arm
Device/Description	Tuly	Supervis Amps/Device	Total Amperage	Qty	Amps/Device	
		Amps/Device	Total Amperaga	Ê	Amps/Device	Total Ampera
FN-600 main board	1	0.2	-0,2	1	0.65	0.65
NAC ckt1 (Ingger)	1			1	0.015	0.015
PSD-7152 Smoke det	1,	0.000405	0.000405	1	0.000445	0.000445
Manual pull station	16	0.000405	0.00243	6	0.00045	0.0027
Al input module	20	0.000405	0,0081	20	0,00045	0.009
Beam Det. Imager	4	0.008	0.032	4	0.008	0.032
Beam Det. Emitter	4	0.00035	0.0014	4	0.00035	0.0014
						17-1111-53
	_	Amperes	Hours		Total Amp-Hits	
Total Supervisory Current	-	0.244335	24	133	5.9	
		Amperes	Minutes	18	Total Amp-Hrs	
Total Alam Current	-	0.710545	5	12	0.1	
Battery Charging Rate	1	Stand-By Battery		100	Total Amp-His	
(Amp-Ht/Hr)		Requirement	_	18	6.0	
Total Time to Recharge		Battery De-Rating	20%		Total Amp-Hits	
(Hrs)		(r. 1140 -	and The			
NIA	1	Battery Supplied			Tatal Amp-Brs 12.0	
Commonts:	_			_	_	
	_			_		

NAC Circuit Load/Voltage Drop Calculations

trobe - medium setting typ.

irobe Strobe (interior or W.P.)

Sentes Strobies 15cd Strobe 30cd Strobe 75cd Strobe (Interior or W.P.) 110cd Strobe

H Mini Horn (lemporal - low 76db)

B-G10-24-R W.P. 10" Alarm Boll

ombined Device Totals

Voltage Drop - Wire Size

C Series Horn/Strobe - Celling mount 15cd Temporal medium setting typ. 30cd 75cd 110cd 185cd high output strobe

Job Number: Job Name: NAC Circuit:

evice Type

5/15/20

0.001 0.001 0.001 0.603 0.001 0.001

0.000

0.603

Heritage Environmen SNAC Panel NAC

Qty. Amps Total

0.066 0.000 0.084 0.000 0.158 0.000 0.202 0.000 0.000 0.000

0.014

0.060

0.069 0.000 0.097 0.000 0.157 0.000 0.201 0.000 0.258 0.000 0.000 0.000 0.000 0.000

 (One Way Distance)
 Feet
 Resistance
 Drop

 0.000
 0.000
 0.000
 0.000

 350
 2.282
 1.376
 0.000
 0.000

0.069 0.097 0.157 3 0.201

		_	BATTERY CALCULATIONS
	eritade Environmental		JOB NUMBER: JOB NAME:
	SNAC Panel -1		APPLICATION:
	05/15/14		DATE
		_	REV: REV DATE:
	Supervis	Qty	Device/Description
Total Amperage	Amps/Device		
		1	NAC ckL -1
		1	NAC ckt2
		1	NAC ckL -3
			NAC ckL -4
0.207	0.207	1	Main Ckt. Board - HPFF8
-			
Hours	Amperes		
24	D,207		Total Supervisory Current
Minutes	Amperes	1	
5	2.242	_	Total Alarm Current
	Stand-By Battery Requirement		Battery Charging Rate (Amp-Hir/Hr)
	Battery De-Rating		
20%	Plus:		Total Time to Recharge (Hrs)
	Battery Supplied	1	N/A
		_	Comments:

NAC Circuit Load/Voltage Drop C	alculatio
Date:	
Job Number:	
Job Name:	
NAC Circuit:	
Device Type	Qty.
P2 Series Hom/Strobe	diry.
15cd Hom/Strobe - medium setting typ.	
30ed Hom/Srobe	
75cd Hom/Strobe (Intenior or W.P.)	1
11Dcd Horn/Strobe	3
	-
S Series Strobes	
15cd Strobe	-
30od Strobe	_
75cd Strobe (Interior or W.P.)	
110cd Strobe	_
MH Mini Horn (temporal - low 76db)	
MB-G10-24-R W.P. 10" Alarm Bell	
	_
PC Series Horn/Strobe - Ceiling mount	
15cd Temporal medium setting typ.	
30pd	
75cd	
110cd	
185cd high output strobe	
Combined Device Totals	4
Voltage Drop - Wire Size (One Way Distance)	Feet
AWG 16 - 5.29 Chms/1000 /t	Feet
	210
AWG 14 - 3.26 Ohms/1000 ft	

Date:			5/15/201
Job Number:			
Job Name:		Heritage Envi	ronmanta
NAC Circuit:		SNAC Par	nel NAC-
Device Type	Qty.	Amps	Total
P2 Series Horn/Strobe			
15cd Horn/Strobe - medium setting typ.		0.069	0.000
30cd Horn/Srobe		0.097	0.000
75cd Hom/Strobe (Interior or W.P.)		0.157	0.000
110cd Horn/Strobe	4	0.201	0.804
			0.000
			0.000
	1.0		
S Series Strobes			
15cd Strobe		0.066	0.000
30ed Strobe		0.094	0.000
75cd Strobe (Interior or W.P.)		0.158	0.000
110cd Strobe		0.202	0.000
			0.000
			0.000
A CONTRACTOR OF	_	1	
IH Mini Hom (temporal - low 76db)	_	0.014	0.000
			0.000
IB-G10-24-R W.P. 10" Alarm Bell		0.080	0.000
	_		0,000
			0.000
	_		0.000
	_		0.000
PC Series Hom/Strobe - Celling mount	-	-	
15cd Temporal medium setting typ.		0.069	0.000
30cd		0.003	0.000
75cd		0.157	0.000
110cd		0.701	0.000
185cd high output strobe		0.201	0.000
1abcd high output strobe		0.258	0.000
	-	-	0.000
	-	-	0.000
	-	-	0.000
	-		0.000
	-		
Combined Device Totals	4		0.804
Voltage Drop - Wire Size (One Way Distance)	Feet	Resistance	Drop
AWG 16 - 5.29 Ohms/1000 ft	1.000	0.000	0.000
AWG 14 - 3.26 Ohms/1000 R	275	1,793	1.442
AWG 12 - 2.05 Ohms/1000 ft		0.000	0.000

BATTERY & NAC VOLTAGE DROP CALCULATIONS

