



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Colorado River Valley Field Office
2300 River Frontage Road
Silt, Colorado 81652
www.co.blm.gov



IN REPLY REFER TO:
COC 75928/287001

CATEGORICAL EXCLUSION
DOI-BLM-CO-N040-2013-0085-CX

A. Background

BLM Office: Colorado River Valley Field Office (CRVFO)

Lease/Serial/Case File No.:
COC 75928/287001

Proposed Action Title/Type: Kirchner Main Pond Pump Station and Water Pipeline

Location of Proposed Action:

Sixth Principal Meridian, Colorado
T. 2 S., R. 84 W.,
sec. 1, lots 17 and 22.

Description of Proposed Action:

Under the proposed action, a ROW (10' x 560') would be granted to Doris J. Allen-Kirchner Revocable Trust and John P. Kirchner Revocable Trust to construct 560' of a 4" PVC raw water pipeline and associated pump station vault. It would be constructed in T. 2 S., R. 84 W., Sec. 1, lots 17 and 22, Sixth Principal Meridian, Colorado. Construction would begin approximately two week after authorization and would take approximately two weeks to complete. (See Appendix A - Map 1 for the specific line alignment.) Construction would consist of Kirchner's contractor burying 560' of 4" PVC pipe and electrical service cable 2-3' deep and installing a pump vault in proximity to the Colorado River with a perforated intake out and at least 12" under the surface of the river bottom. (See attached construction details) Construction would utilize heavy equipment (one track hoe, and 1- two ton truck)

Under the proposed action, the total area of temporary disturbance is anticipated to be approximately 5600 sq. ft. (0.13 acres). An existing route would be utilized to access the area.

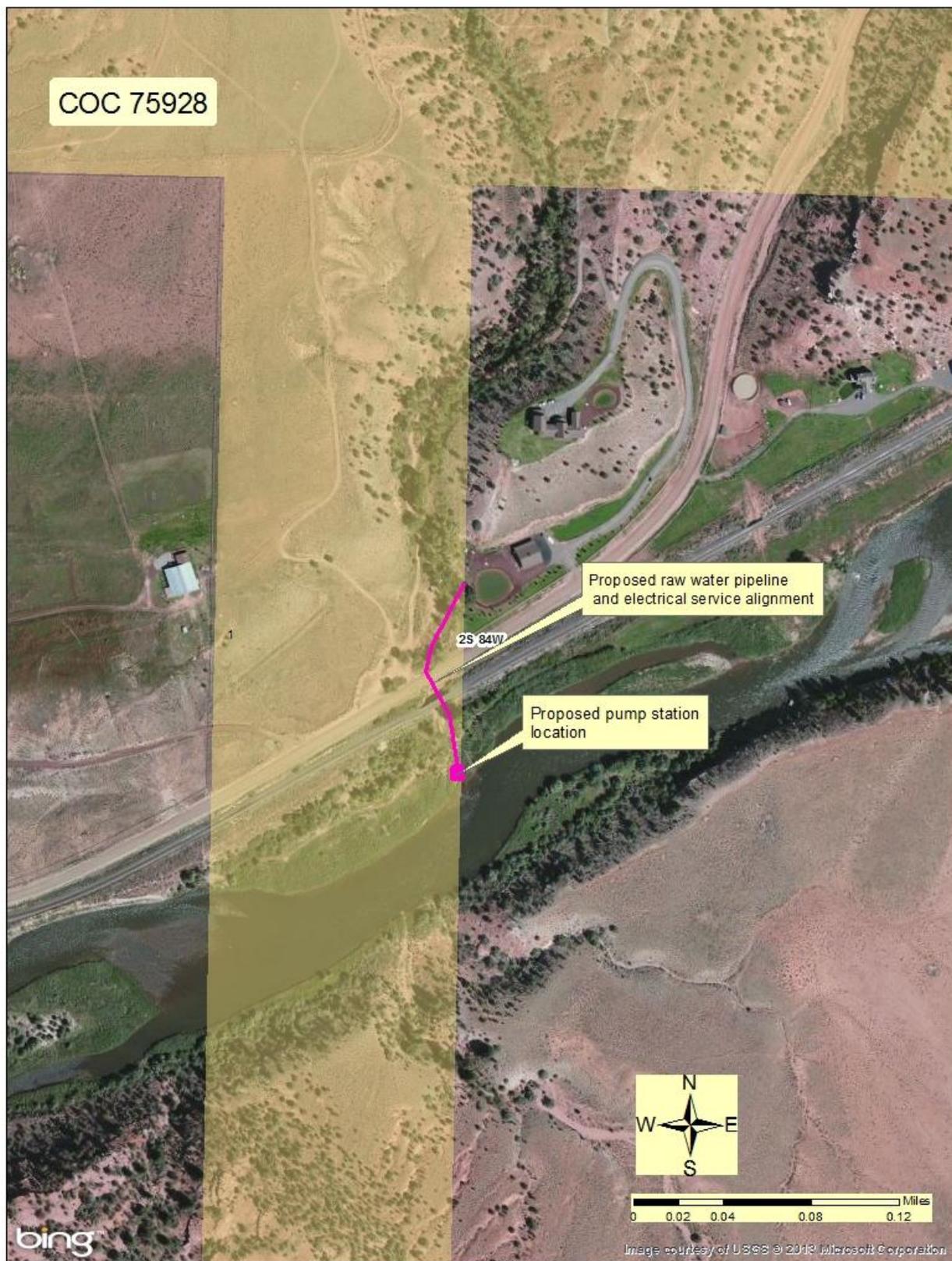
The ROW granted would be for 30 years and grant seasonal access for maintenance of the line.

Design Features or Mitigation Proposed by Applicant

- Use of water during construction to reduce dust.
- Minimize surface disturbance and vegetation removal.

- All improvements will be below surface.
- Manhole and Gate valve cover could be painted any color

Appendix A



A. Land Use Plan Conformance:

The Proposed Action is subject to and has been reviewed for and is in conformance with (43 CFR §1610.5 and § 2800, BLM 1617.3) the following plan:

Name of Plan: Record of Decision and Glenwood Springs Resource Management Plan.

Date Approved: January, 1984; revised in 1988; amended in November 1991 - Oil and Gas Leasing and Development - Final Supplemental Environmental Impact Statement; amended Nov. 1996 - Colorado Standards and Guidelines; amended in August 1997 - Castle Peak Travel Management Plan; amended in March 1999 - Oil and Gas Leasing & Development Final Supplemental Environmental Impact Statement; amended in November 1999 - Red Hill Plan Amendment; and amended in September 2002 – Fire Management Plan for Wildland Fire Management and Prescriptive Vegetation Treatment Guidance.

Decision Number/Page: Page 41, Utility and Communication Facility Management.

Decision Language: To respond, in a timely manner, to requests for utility and communication facility authorizations on public land while considering environmental, social, economic, and interagency concerns.

B. Compliance with NEPA:

The Proposed Action is categorically excluded from further documentation under the National Environmental Policy Act (NEPA) in accordance with 516 DM 11.9, E. Realty Numbers:

(9) Renewals and assignments of lease, permits, or rights-of-way where no additional rights are conveyed beyond those granted by the original authorizations.

This categorical exclusion is appropriate in this situation because there are no extraordinary circumstances potentially having effects that may significantly affect the environment. The proposed action has been reviewed, and none of the extraordinary circumstances described in 516 DM 2 apply.

EXCLUSIONS	YES	NO
1. Have significant impacts on public health or safety.		X
2. Have significant impacts on such natural resources and unique geographic characteristics as historic or cultural resources; park, recreation or refuge lands; wilderness areas; wild or scenic rivers; national natural landmarks; sole or principal drinking water aquifers; prime farmlands; wetlands (Executive Order 11990); floodplains (Executive Order 11988); national monuments; migratory birds; and other ecologically significant or critical areas.		X
3. Have highly controversial environmental effects or involve unresolved conflicts concerning alternative uses of available resources [NEPA Section 102(2)(E)].		X
4. Have highly uncertain and potentially significant environmental effects or involve unique or unknown environmental risks.		X
5. Establish a precedent for future action or represent a decision in principle about future actions with potentially significant environmental effects.		X
6. Have a direct relationship to other actions with individually insignificant but cumulatively significant environmental effects.		X

7. Have significant impacts on properties listed, or eligible for listing, on the National Register of Historic Places as determined by either the bureau or office.		X
8. Have significant impacts on species listed, or proposed to be listed, on the List of Endangered or Threatened Species, or have significant impacts on designated Critical Habitat for these species.		X
9. Violate a Federal law, or a State, local, or tribal law or requirement imposed for the protection of the environment.		X
10. Have a disproportionately high and adverse effect on low income or minority populations (Executive Order 12898).		X
11. Limit access to and ceremonial use of Indian sacred sites on Federal lands by Indian religious practitioners or significantly adversely affect the physical integrity of such sacred sites (Executive Order 13007).		X
12. Contribute to the introduction, continued existence, or spread of noxious weeds or non-native invasive species known to occur in the area or actions that may promote the introduction, growth, or expansion of the range of such species (Federal Noxious Weed Control Act and Executive Order 13112).		X

INTERDISCIPLINARY REVIEW:

Name	Title	Area of Responsibility
Monte Senor	Realty Specialist	IDT Lead
Kimberly Miller	Outdoor Recreation Planner	Recreation, Wild and Scenic Rivers, Wilderness
Kristy Wallner	Rangeland Management Specialist	Invasive, Non-Native Species (Noxious weeds)
Darren Long	Wildlife Biologist	TES terrestrial and aquatic wildlife/Migratory birds/ terrestrial and aquatic wildlife
Erin Leifeld	Archaeologist	Cultural Resources and Native American Religious Concerns
Carla DeYoung	Ecologist	Areas of Critical Environmental Concern, TES Plants, Vegetation
Pauline Adams	Hydrologist	Water, Soil, and Air Quality

REMARKS/MITIGATION (the following mitigations will be carried forward within the permit under Special Conditions:

Wild and Scenic Rivers

The proposed action (proposal) is within the Colorado River Segment 6 which is eligible for inclusion in the National Wild and Scenic River System. The Wild and Scenic ORV's are Scenic, Recreational (floatboating and scenic driving), Wildlife (river otter), Botanic, Geological, Historic (Ute Trail).

The project should not affect the Recreational ORV because all improvements will be below ground, so the physical settings should remain the same. This project will not alter the front country physical setting and the modifications will not be visually obvious or evident. This will not alter the social or operational settings. This project would not alter the tentative classification of the river.

This proposal will not significantly affect the free-flowing condition which consists of three elements:

1. Water is not impounded (stored) for a significant period of time. This proposal does not seek to impound water.
2. The flows of the Colorado River are not diminished to the point that the ORVs are significantly affected. In this case, the proposed diversion rate from the pump and pipeline (0.15 cfs) is an insignificant amount compared to the mean base flow rate in the river. In addition, stipulations of the water right decree include providing augmentation water. The Colorado River District has been contracted to manage the necessary reservoir releases on an annual basis.
3. There are no significant channel alterations that would alter the flow path of the water, or turn the natural streambanks into artificial streambanks (such as riprap). The proposal doesn't propose to significantly alter the channel, and it proposes to use natural materials (boulders).

Major River Corridors NSO Stipulation:

The predominant consideration for the application of any stipulations is the compatibility or incompatibility of the surface-disturbing activity, surface use or occupancy (including design criteria) with resource value(s) being protected as defined in the stipulation. A stipulation may not apply if it can be demonstrated the surface-disturbing activity:

- 1) Would have negligible impacts or improve the protected resource value or condition as defined by RMP objectives, standards, or conditions in the stipulation.

Recreation

The proposed action is located within the Upper Colorado River Special Recreation Management Area (SRMA). The general public does access the river under the railroad at this location, called Landing Strip. It is not an authorized access point for recreationists, but it does occur. Therefore, mitigation should occur during construction to sign the area to notify the public of the construction, hazards, and timeline.

Cultural Resources and Native American Religious Concerns

A records search of the general project area, and a Class III inventory of the Area of Potential Effect (APE), as defined in the National Historic Preservation Act (NHPA), was completed by BLM archaeologists (CRVFO CRIR# 1013-46). A total of five previous studies have been conducted within one mile of the project area. None of the previously recorded cultural resources are located within the area of potential effect (APE). The current proposed project resulted in 3.83 acres of new cultural inventory and no new cultural resources were documented. The project inventory and evaluation is in compliance with the NHPA, the Colorado State Protocol Agreement, and other federal law, regulation, policy, and guidelines regarding cultural resources. The project has a determination of *no historic properties affected*.

The Ute have a generalized concept of spiritual significance that is not easily transferred to Euro-American models or definitions. As such the BLM recognizes that the Ute have identified sites that are of concern because of their association with Ute occupation of the area as part of their traditional lands. No traditional cultural properties, unique natural resources, or properties of a type previously identified as being of interest to local tribes, were identified during the cultural resources inventory of the project area. No additional Native American Indian consultation was conducted for the proposed project.

Cultural Resource Stipulations:

- A. Pursuant to 43 CFR 10.4(g) the holder of this authorization or its contractor must notify the AO, by telephone, with written confirmation, immediately upon the discovery of human remains, funerary items, sacred objects, or objects of cultural patrimony. Further, pursuant to 43 CFR 10.4(c) and (d), the holder must stop activities in the vicinity of the discovery and protect it for 30 days or until notified to proceed by the AO.
- B. The operator or its contractor is responsible for informing all persons who are associated with the project operations that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during any project or construction activity, the operator must stop work in the area of the discovery that might further disturb such materials, and immediately contact the AO. Within five working days the AO will inform the operator as to the mitigation measures the operator will likely have to undertake before the site can be used (assuming in place preservation is not necessary).
- C. The holder shall notify the AO at least 180 days prior to non-emergency activities that would cause surface disturbance in the ROW or TUP. The BLM will determine if a cultural resource inventory, treatment, or mitigation is required.
- D. A "Notice to Proceed" stipulation shall be required for any non-emergency activities as defined above that would cause surface disturbance on the ROW or TUP. Any request for a "Notice to Proceed" should be made to the AO, who shall review the proposed action for consistency with resource management concerns such as wildlife, big game winter range, paleontology, threatened and endangered species, and cultural resource protection. Additional measures may be required to protect these resources.

Threatened, Endangered, and other Special Status Plants

The Ute ladies'-tresses is an orchid species that is listed as Threatened under the Endangered Species Act. Ute ladies'-tresses occurs in seasonally moist soils in riparian and wetland areas below 7,400 feet in elevation. Prime habitat usually supports a variety of herbaceous riparian species such as redtop, sedges, and rushes. Willows, especially coyote willows, are often present in occupied habitat as well. The habitat is seasonally wet, usually associated with spring runoff, and the water table is shallow. The proposed action would involve damage to or destruction of a small area of riparian vegetation along the banks of the Colorado River at an elevation of approximately 6,700 feet.

A survey of the project area for the Ute ladies'-tresses orchid was performed on August 7, 2013. Although portions of the project area had some characteristics of potential habitat (coyote willow, redtop, sedges, rushes), no Ute ladies'-tresses plants were observed. The USFWS typically requires surveys for three years before habitat can definitively be considered unoccupied. The proposed action is unlikely to affect the threatened orchid, however, if additional surveys in future years determine the habitat is occupied; Section 7 consultation with the USFWS will need to be conducted and mitigation measures on any future surface-disturbing activities may be required to protect the species.

Migratory birds

The Migratory Bird Treaty Act of 1918, as amended 1936, 1960, 1968, 1969, 1974, 1978, 1986, and 1989 implements various treaties and conventions between the U.S. and Canada, Japan, Mexico and the former Union of Soviet Republics for the protection of Migratory Birds. The Act prohibits hunting, taking, capturing, killing, possessing, selling, purchasing, shipping, transporting or exporting of any migratory bird, part, nest or egg. Whenever possible, avoid the primary nesting season of May 15 to July 15. If this time frame is unavoidable, surveys would need to be conducted by a BLM wildlife biologist with a prior action notice of 30 days for any vegetation clearing activities on this site.

I considered this action and determined that it may be categorically excluded. I have evaluated the action relative to the 12 criteria listed above and have determined that it does not represent an exception and is, therefore, categorically excluded from further environmental analysis.

C. Signature

Authorizing Official:  Date: 10/22/2013
Karl R. Mendonca, Associate Field Manager

Contact Person

For additional information concerning this CX review, contact Monte Senor, Realty Specialist, Colorado River Valley Field Office, 2300 River Frontage Road, Silt, CO 81652, (970)876-9067.

RIGHT-OF-WAY RENEWAL STIPULATIONS

1. The holder shall contact the Authorized Officer (AO) at least 180 days prior to the non-emergency anticipated start of any surface disturbing activities. It is the holder's responsibility to comply with all applicable Federal, State, and local laws and regulations existing or hereafter enacted or promulgated. The BLM will determine if any surveys or inventories are required. As necessary, the holder shall demonstrate compliance in writing, i.e., with surveys and inventories completed by qualified individuals, with the following laws including, but not limited to, the Endangered Species Act (if potential habitat is determined to be present), the National Historic Preservation Act, and the Native American Graves Protection and Repatriation Act. Evaluations and inventories can be completed by BLM, or by the holder in order to meet the holder's schedule and subject to approval by the AO. Inventories may be time sensitive and may require US Fish and Wildlife Service concurrence, therefore this process could take longer than 60 days to complete. The holder shall not initiate any surface disturbing activities on the right-of-way without a "Notice to Proceed", as determined necessary by the AO.

2. Cultural Resources, Education/Discovery Stipulation:

Cultural Resources

If subsurface cultural values are uncovered during operations, all work in the vicinity of the resource will cease and the authorized officer with the BLM notified immediately. The operator, or its contractor shall take any additional measures requested by the BLM to protect discoveries until they can be adequately evaluated by the permitted archaeologist. Within 48 hours of the discovery, the State Historic Preservation Officer (SHPO) and consulting parties will be notified of the discovery and consultation will begin to determine an appropriate mitigation measure. BLM in cooperation with the operator will ensure that the discovery is protected from further disturbance until mitigation is completed. Operations may resume at the discovery site upon receipt of written instructions and authorization by the authorized officer.

Native American human remains

Pursuant to 43 CFR 10.4(g), the holder must notify the authorized officer, by telephone, with written confirmation, immediately upon the discovery of human remains, funerary items, sacred objects, or objects of cultural patrimony on federal land. Further, pursuant to 43 CFR 10.4 (c) and (d), the holder must stop activities in the vicinity of the discovery that could adversely affect the discovery. The holder shall make a reasonable effort to protect the human remains, funerary items, sacred objects, or objects of cultural patrimony for a period of thirty days after written notice is provided to the authorized officer, or until the authorized officer has issued a written notice to proceed, whichever occurs first. Any relocation, additional construction, or use that is not in accord with the approved conditions shall not be initiated without the prior written approval of the authorized officer. A copy of the complete right-of-way grant, including all plans and stipulations shall be made available at the right-of-way site during construction. Noncompliance with the above will be grounds for an immediate temporary suspension of activities if it constitutes a threat to public health or the environment.

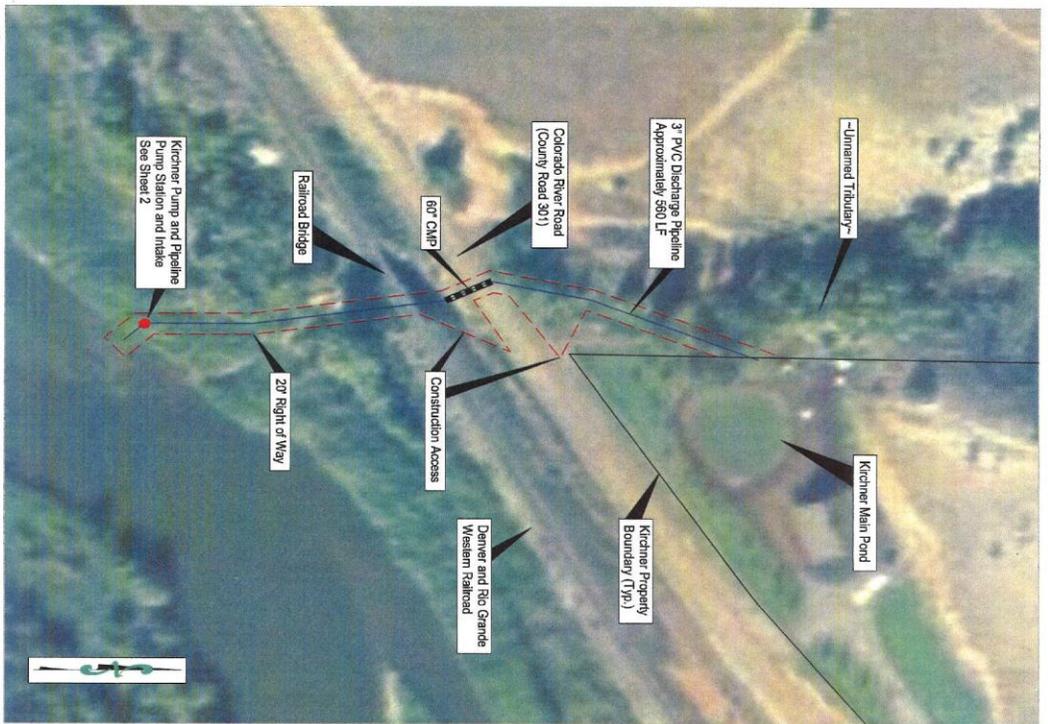
3. The holder shall comply with applicable State standards for public health and safety, environmental protection and siting, construction, operation and maintenance, if these State standards are more stringent than Federal standards for similar projects.

4. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated regarding toxic substances or hazardous materials. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, *et seq.*) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act of 1980, section 102b. A copy of any report required or requested by any federal agency of state government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency of State government.
5. All construction, operation and maintenance shall be within the authorized limits of the right-of-way granted herein.
6. No construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support such equipment. If the equipment creates ruts in excess of four (4) inches deep, the soil shall be deemed too wet to adequately support the construction equipment.
7. Prior to termination of the right-of-way, the holder shall contact the authorized officer to arrange a joint inspection of the right-of-way. This inspection will be held to agree to an acceptable termination and rehabilitation plan as necessary. This plan shall include, but is not limited to, removal of facilities, drainage structures, or surface material, recontouring, topsoiling, or seeding. The authorized officer must approve the plan in writing prior to the holder's commencement of any termination activities.
8. The holder shall be responsible for weed control within the limits of the right-of-way. The holder is responsible for consultation with the authorized officer and/or local authorities for acceptable weed control methods (within limits imposed in the grant stipulations) including pesticides/herbicides approved for use on BLM land. Use of pesticides/herbicides shall comply with the applicable Federal and state laws. Pesticides/herbicides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of the Interior. Prior to the use of pesticides/herbicides, the holder shall obtain from the authorized officer written approval of the applicant's plan showing the type and quantity of material to be used, pest(s) to be controlled, method of application, location of storage and disposal of containers, and any other information deemed necessary by the authorized officer. The plan should be submitted no later than March 1 of any calendar year to cover the proposed activities for the next growing season. Emergency use of pesticides/herbicides shall be approved in writing by the authorized officer prior to such use.
9. The holder shall protect all survey monuments found within the right-of-way. Survey monuments include, but are not limited to, General Land Office and Bureau of Land Management Cadastral Survey Corners, reference corners, witness points, U.S. Coastal and Geodetic benchmarks and triangulation stations, military control monuments, and recognizable civil (both public and private) survey monuments. In the event of obliteration or disturbance of any of the above, the holder shall immediately report the incident,

in writing, to the authorized officer and the respective installing authority if known. Where General Land Office or Bureau of Land Management right-of-way monuments or references are obliterated during operations, the holder shall secure the services of a registered land surveyor or a Bureau cadastral surveyor to restore the disturbed monuments and references using surveying procedures found in the Manual of Surveying Instructions for the Survey of the Public Lands in the United States, latest edition. The holder shall record such survey in the appropriate county and send a copy to the authorized officer. If the Bureau cadastral surveyors or other Federal surveyors are used to restore the disturbed survey monument, the holder shall be responsible for the survey cost.

10. The holder shall survey and clearly mark the centerline and/or exterior limits of the right-of-way prior to any surface disturbing activity, as determined by the authorized officer.
11. Holder shall disturb and remove only the minimum amount of soils and vegetation necessary for the construction of structures and facilities. Topsoil shall be conserved during excavation and reused as cover on disturbed areas to facilitate regrowth of vegetation.
12. The holder shall revegetate all disturbed areas with BLM approved seed mixture(s). The seed mixture(s) shall be planted in the amounts specified in pounds of pure live seed (PLS)/acre. There shall be no primary or secondary noxious weed seed in the seed mixture. Seed shall be tested and the viability testing of seed shall be done in accordance with State law(s) and within 12 months prior to purchase. Commercial seed shall be either certified or registered seed. The seed mixture container shall be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area. (Smaller/heavier seeds have a tendency to drop to the bottom of the drill and are planted first. The holder shall take appropriate measures to ensure this does not occur.) Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of the 2nd growing season after seeding.



1
1
CONCEPTUAL SITE PLAN
SCALE: 1"=50'

RESOURCE ENGINEERING, INC.
202 S. GARDNER, SUITE 100, DENVER, CO 80202
303.733.8888

KIRCHNER REVOCABLE TRUST
KIRCHNER PUMP & PIPELINE

NO.	REVISION	DATE	BY
1			
2			
3			
4			

CONCEPTUAL SITE PLAN AND CONSTRUCTION NOTES

DATE: 05/22/13
JOB NO: 1256-1-D
DRAWN BY: ETL
APPROVED BY: MJE
SHEET 1 OF 2

GENERAL NOTES

1. THE REQUIREMENTS OF LOCAL COUNTY AND THE PRINCE AND BISHOP PARISH SHALL GOVERN ALL CONSTRUCTION ITEMS THAT ARE A PART OF THE PLAN UNLESS OTHERWISE NOTED.
2. SAFETY IS THE RESPONSIBILITY OF THE CONTRACTOR. THE OWNER AND OWNER'S REPRESENTATIVES ARE NOT RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE PROJECT SITE, NOR FOR COMPLIANCE BY THE APPROPRIATE PARTY WITH ANY REGULATIONS RELATING HERETO.
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL NECESSARY PERMITS FROM APPLICABLE FEDERAL, STATE, AND COUNTY ENTITIES HAVE BEEN OBTAINED PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROPER NOTIFICATION OF ALL NECESSARY AGENCIES PRIOR TO CONSTRUCTION AND FOR REQUIRED INSPECTIONS.
5. THE CONTRACTOR SHALL NOTIFY OF ALL SURPLUS EXCAVATION AS DIRECTED BY THE OWNER.
6. THE CONTRACTOR SHALL CLEAN UP ALL DEBRIS AND MATERIALS RESULTING FROM HIS OPERATION AND RESTORE ALL SIGNAGES, STRUCTURES, UTILITIES AND PROPERTY TO ITS ORIGINAL CONDITION TO THE SATISFACTION OF THE OWNER.
7. ALL AREAS DISTURBED DURING CONSTRUCTION MUST BE REVEGETATED WITH A NINE SEED MIX ACCEPTABLE TO THE OWNER AND MULCHED.
8. UPON COMPLETION OF THE PROJECT, ALL AREAS USED BY CONTRACTOR SHALL BE PROPERLY CLEARED OF ALL TEMPORARY STRUCTURES, RUBBISH, AND WASTE MATERIALS AND PROPERTY RESTORED TO ORIGINAL CONDITION. ALL EXCAVATED AREAS SHALL BE FINISHED TO MATCH EXISTING BLDG WITH THE SURROUNDING TERRAIN.

SEDIMENT AND EROSION CONTROL

1. THE CONTRACTOR SHALL FINISH ALL OF THE LABOR, EQUIPMENT, MATERIAL, AND MEANS REQUIRED TO REDUCE THE DUST USAGE TO PERSONS AND SHALL COMPLY WITH ALL OTHER PERMITS REQUIRED BY FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.
2. COMPLIANCE WITH ALL CONDITIONS OF ALL PERMITS IS REQUIRED.
3. SITES UTILIZED BY THE CONTRACTOR FOR THE PURPOSE OF STORAGE, CONCRETE, EXCESS EXCAVATED MATERIALS, STRENGTH TOPSOIL, ETC. SHALL BE ENCLOSED/ENCLOSED, STABILIZED FOR SOIL PROTECTION AND SHALL BE APPROVED IN ADVANCE BY THE OWNER. ENCLOSED/ENCLOSED SITES SHALL BE LEGAL DRAINAGE OR STORMWATER STAGES, AND SHALL BE LEGALLY DRAINAGE, FENCED, AND FENCED. MATERIALS, STRUCTURES, AND OTHER DEVICES EXCAVATED MATERIALS SHALL BE DONE AS SOON AS PRACTICABLE.
5. STRAW BALES, SILT TRINCES, OR OTHER FILTERING DEVICES SHALL BE MAINTAINED AT AREAS OF STORED MATERIALS IN CONSTRUCTION AREAS TO CONTROL SILT RUNOFF (FIELD #1).

PROHIBITED CONSTRUCTION ACTIVITIES

1. USING ANY SUBSTANCE OTHER THAN WATER TO CONTROL DUST.
2. OPEN BURNING OF PROJECT DEBRIS.
3. PUMPING OF SEDIMENT-LOADED WATER FROM TRENCHES OR OTHER EXCAVATIONS INTO ANY SURFACE WATERS, ANY STREAM CHANNELS, ANY WETLANDS, OR STORM SEWERS.
4. DISCHARGING POLLUTANTS - SUCH AS CHEMICALS, FLUIDS, LUBRICANTS, BLENDED MATERIALS, PAW SPRAY, AND OTHER HAZARDOUS WASTE INTO OR ALONGSIDE RIVERS, STREAMS, WETLANDS, OR INTO WATERS OF THE STATE OR FEDERAL GOVERNMENT THROUGH DRAINAGE.
5. STAKING CONSTRUCTION EQUIPMENT AND VEHICLES AND/OR STORING CONSTRUCTION MATERIALS ON PROPERTY, PUBLIC OR PRIVATE, NOT SPECIFIED BY THE OWNER FOR SUCH PURPOSES.
6. DEPOSITING OF EXCESS OR UNNECESSARY EXCAVATED MATERIALS IN WETLANDS OR FLOOD PLAINS, LIGHT WITHIN THE JURISDICTION OF THE PROPERTY OWNER.
7. DAMAGING VEGETATION OUTSIDE OF THE CONSTRUCTION AREA.
8. DISPOSAL OF TREES, GRASS, AND OTHER DEBRIS IN ANY STREAM CHANNELS, ANY WETLANDS, ANY SURFACE WATERS, OR AT UNDESIRABLE LOCATIONS.

TREE PROTECTION & REMOVAL

1. THE CONTRACTOR SHALL PROTECT ALL EXISTING TREES AND SHRUBS UNLESS OTHERWISE SPECIFIED BY THE OWNER. TREES AND SHRUBS SHALL BE PROTECTED BY INSTALLING PROTECTIVE BARRIERS AND SIGNAGE PRIOR TO CONSTRUCTION. IN THE EVENT THAT A TREE OR SHRUB MUST BE REMOVED OR DAMAGED, THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE OWNER PRIOR TO ANY DAMAGE OR REMOVAL.
2. ANY ORGANIC MATERIAL RESULTING FROM TREE OR SHRUB REMOVAL CANNOT BE USED FOR BACKFILL MATERIAL.

DEWATERING NOTES (IF NEEDED)

1. CONSTRUCTION SHALL START A DEWATERING PLAN TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. 7 DAYS PRIOR TO DEWATERING ACTIVITIES.
2. ALL CONSTRUCTION SHALL BE CONDUCTED UNDER DEWATERED CONDITIONS. THIS INCLUDES ALL EXCAVATIONS, FOUNDATIONS, AND ALL OTHER CONSTRUCTION. ALL CONSTRUCTION EQUIPMENT AND LABOR TO REMOVE WATER IN AREAS OF NEW CONSTRUCTION AND SHALL BE DEWATERED PRIOR TO CONSTRUCTION SO THAT CONSTRUCTION CAN BE CONDUCTED UNDER DEWATERED CONDITIONS.
3. WATER CONTROL SHALL BE ACCOMPLISHED SO THAT NO DAMAGE IS DONE TO ADJACENT AND FUTURE CONSTRUCTION. ALL DEWATERING OPERATIONS SHALL BE DESCRIBED WITH THE ORIGINAL EXCAVATED MATERIAL PLACED TO 95% OF MAXIMUM DEPTH (AS PER D-698) EXCEPT WHERE PLACED BY OTHER METHODS AND/OR METHODS IS APPROVED OR DIRECTED BY THE OWNER'S REPRESENTATIVE.
4. ALL EXCAVATIONS MADE AS PART OF DEWATERING OPERATIONS SHALL BE DESCRIBED WITH THE ORIGINAL EXCAVATED MATERIAL PLACED TO 95% OF MAXIMUM DEPTH (AS PER D-698) EXCEPT WHERE PLACED BY OTHER METHODS AND/OR METHODS IS APPROVED OR DIRECTED BY THE OWNER'S REPRESENTATIVE.
5. THE CONTRACTOR SHALL CORROBORATE, EVALUATE, DESIGN, CONSTRUCT, AND MAINTAIN TEMPORARY WATER CONVEYANCE SYSTEMS TO EXISTING STAKE WATER FROM CONSTRUCTION SITES. TEMPORARY STRUCTURES, SUCH AS BENTS, SANDBOGS, PRELIME WEASERS ARE NOT A MAJOR OBSTRUCTION TO FLOOD FLOWS, DO NOT IMPROVE FLOODING OR ALTER HISTORIC FLOW ROUTES. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ANY SUCH WEASERING OR FLOODING DOES NOT OCCUR.
6. THE CONTRACTOR SHALL CONDUCT HIS OPERATION IN SUCH A MANNER THAT STORMWATER MAY PERFORM UNIMPROVED, ALONG THE DRAINAGE COURSE. BY SUBMITTING A BID, THE CONTRACTOR HAS AGREED TO MAINTAIN THE EXISTING DRAINAGE COURSE AND TO MAINTAIN THE EXISTING DRAINAGE COURSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING DRAINAGE COURSE AND TO MAINTAIN THE EXISTING DRAINAGE COURSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING DRAINAGE COURSE AND TO MAINTAIN THE EXISTING DRAINAGE COURSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING DRAINAGE COURSE AND TO MAINTAIN THE EXISTING DRAINAGE COURSE.
7. THE CONTRACTOR SHALL FINISH, INSTALL, OPERATE, AND MAINTAIN ALL DRAINAGE SQUARES AND DRAINAGE STRUCTURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING DRAINAGE COURSE AND TO MAINTAIN THE EXISTING DRAINAGE COURSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING DRAINAGE COURSE AND TO MAINTAIN THE EXISTING DRAINAGE COURSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF EXISTING DRAINAGE COURSE AND TO MAINTAIN THE EXISTING DRAINAGE COURSE.
8. AFTER THE TEMPORARY DEWATERING AND DRAINAGE PROVISION HAVE SERVED THEIR PURPOSE, THE CONTRACTOR SHALL RETURN THE SITE TO GRASSES AND CONDITIONS AS EXISTING ON THE REMAINING OR TO ORIGINAL CONDITIONS. PREP, CONSUME, PLANS, AND THE END OF CONSTRUCTION ACTIVITIES BY THE CONTRACTOR.

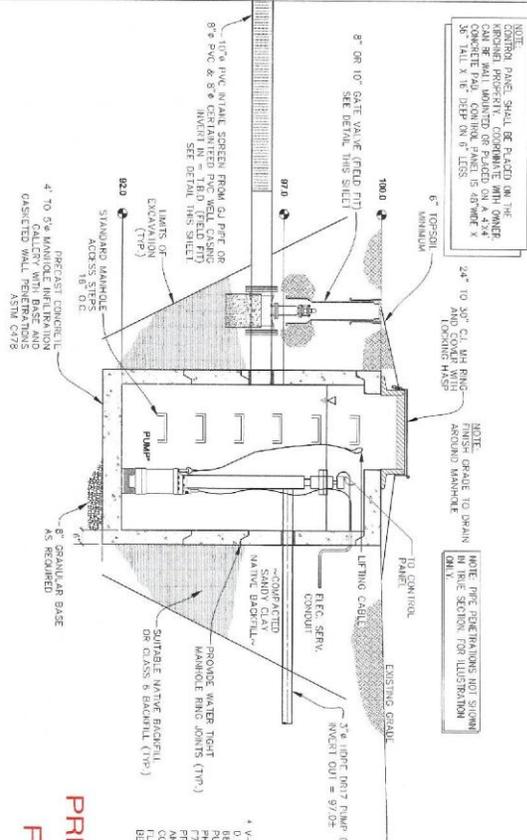
PIPELINE NOTES

1. THE LOCATION OF WATER LINES AS SHOWN ON THE DRAWINGS SHALL BE ADJUSTED IN THE FIELD TO AVOID CONTACT WITH TREES, POLES, AND UNDERGROUND UTILITIES. NO ADDITIONAL PROVISION WILL BE MADE FOR WATER ADJUSTMENTS.
2. THE CONTRACTOR SHALL FINISH AND INSTALL ALL FITTINGS AS NECESSARY TO COMPLETE THE WORK.
3. 8" OR 10" NITROR PIPING SHALL BE PVC. 3" DISCHARGE SHALL BE 10" PVC. USE BENDS AND FITTINGS AS REQUIRED WHETHER SHOWN ON THE PLANS OR NOT.
4. DAMAGED FIELD JOINT DEFLECTION SHALL BE PER MANUFACTURER RECOMMENDATIONS.
5. ALL PIPE JOINTS ARE APPROXIMATE AND INCLUDE FITTINGS AND VALVES.
6. CONTRACTOR SHALL PROVIDE FOR ALL CONNECTIONS AND VERIFY THAT THE CONNECTIONS ARE SUITABLE FOR DISMANTLE MATERIALS.

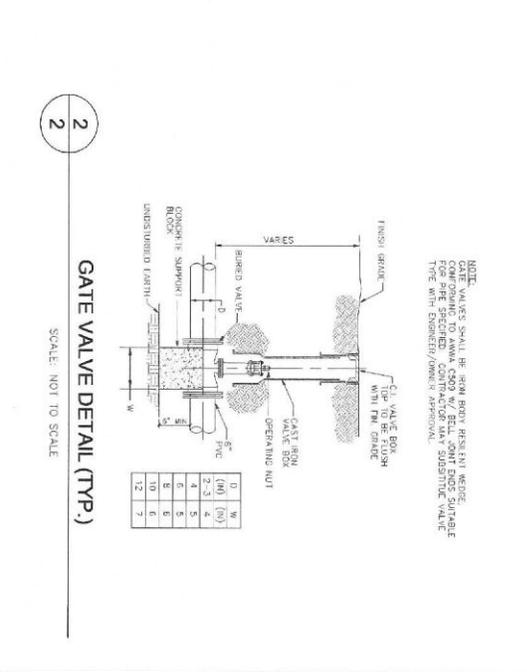
UTILITY NOTES

1. THE CONTRACTOR SHALL CAUSE NOTICE TO BE GIVEN TO THE UTILITY NOTIFICATION CENTER OF COLORADO (TELEPHONE: 800-422-1897 - 88-81) AND TO THE OWNERS OF UNDERGROUND UTILITIES SHOWN ON THE PLANS AND PER LOCAL ORDINANCES GIVEN AT LEAST 72 HOURS PRIOR TO START OF CONSTRUCTION.

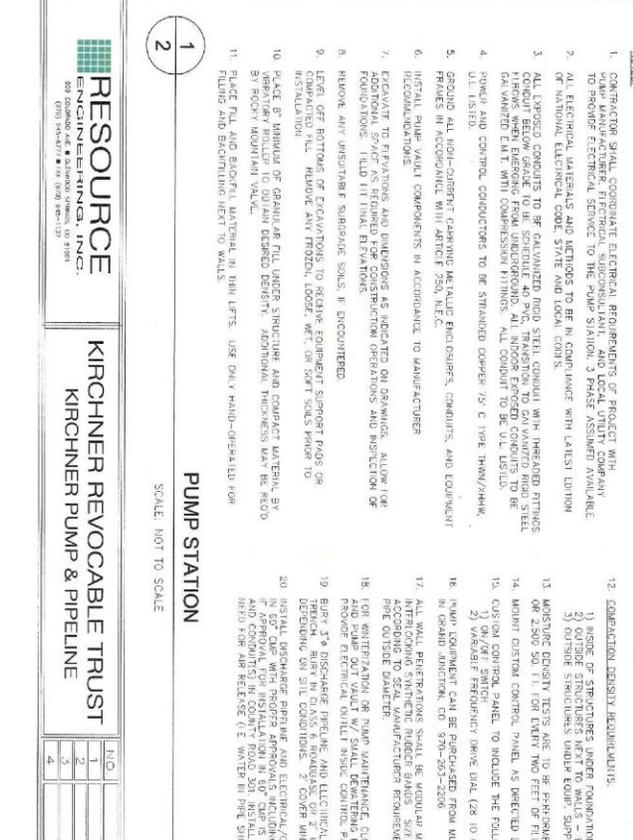
PRELIMINARY DESIGN FOR REVIEW ONLY



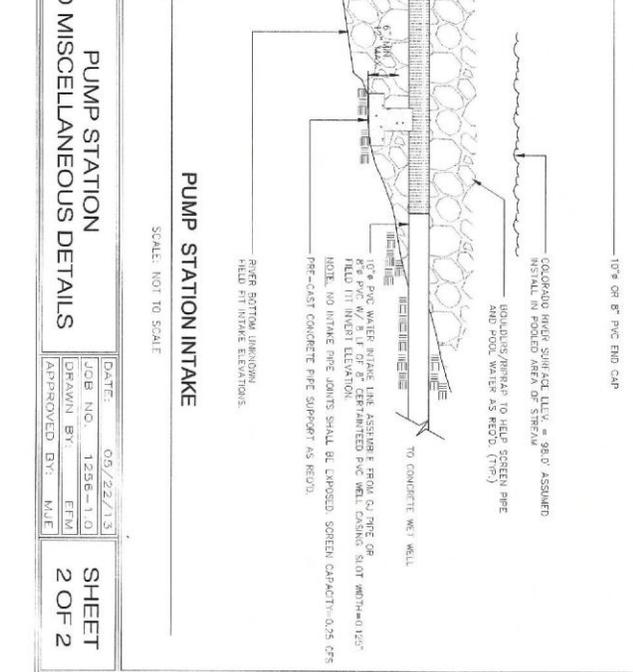
- NOTES:**
- CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS OF PROJECT WITH ELECTRICAL ENGINEER.
 - ALL ELECTRICAL WIRING AND DEVICES TO BE IN CONFORMANCE WITH LATEST EDITION OF NATIONAL ELECTRICAL CODE, STATE AND LOCAL CODES.
 - ALL LARGED CONDUITS TO BE ALUMINUM RIBBON STEEL CONDUIT WITH PREASSEMBLED FITTINGS. CONDUIT BELOW GRADE TO BE SCHEDULE 40 RIBBON STEEL CONDUIT WITH PREASSEMBLED FITTINGS. CONDUIT ABOVE GRADE TO BE SCHEDULE 40 RIBBON STEEL CONDUIT WITH PREASSEMBLED FITTINGS. ALL CONDUIT TO BE UL LISTED.
 - POWER AND CONTROL CONDUCTORS TO BE STRANDED COPPER 75° C TYPE THHN/THHW, UL LISTED.
 - GROUND ALL NON-CURRENT CARRYING METALLIC ENCLOSURES, CONDUITS, AND EQUIPMENT FRAMES IN ACCORDANCE WITH ARTICLE 250, N.E.C.
 - INSTALL PUMP VALVE COMPONENTS IN ACCORDANCE TO MANUFACTURER RECOMMENDATIONS.
 - EXCAVATE TO FITTINGS AND DIMENSIONS AS INDICATED ON DRAWINGS. ALLOW FOR ADDITIONAL SPACE AS REQUIRED FOR CONSTRUCTION OPERATIONS AND PROTECTION OF FOUNDATIONS. FILL TO FINAL ELEVATIONS.
 - REMOVE ANY UNSUITABLE SUBGRADE SOILS, IF ENCOUNTERED.
 - LEAVE OFF BOTTOMS OF EXCAVATIONS TO RECEIVE EQUIPMENT SUPPORT PADS OR COMPACTED FILL. REMOVE ANY FROZEN, LOOSE, WET, OR SOFT SOILS PRIOR TO INSTALLATION.
 - PLACE 8" MINIMUM OF GRANULAR FILL UNDER STRUCTURE AND COMPACT MATERIAL BY 8" DEEP LAYERS TO SOFTEN DISPERSED DESIGN. ADDITIONAL THICKNESS MAY BE REQUIRED TO ACHIEVE REQUIRED BEARING.
 - FILLING AND DRAINAGE MUST TO WALLS.



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RESOURCE ENGINEERING, INC.
 889 Colorado St. • Colorado Springs, CO 80901
 (719) 594-7777 • Fax: (719) 594-1139

KIRCHNER REVOCABLE TRUST
KIRCHNER PUMP & PIPELINE

NO.	REVISION	DATE	BY
1			
2			
3			
4			

PUMP STATION AND MISCELLANEOUS DETAILS

DATE	DATE	DATE
06/22/13		
JCE NO. 1236-1.0		
DRAWN BY: EFM		
APPROVED BY: MLE		

SHEET 2 OF 2