



CITY OF BISHOP

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www.ca-bishop.us

Request For Bids

Grit Equipment

Release: 15 January 2013

Closes: 15 February 2013

Contact: David Grah, Director of Public Works

General: The City of Bishop requests bids to detail, fabricate, provide, install and put into service a complete grit collection, washing and removal equipment in the existing headworks at the City of Bishop Wastewater Treatment Plant. Bids shall be received by Bishop Public Works at City Hall at 377 West Line Street, Bishop, California 93514, publicworks@ca-bishop.us. Bids shall be accepted until 3 pm on the close date of this request and shall be clearly identified "Grit Equipment Bid".

Purchasing Preferences: City of Bishop contracting preferences apply to this purchase. The city provides a preference to small and local businesses in accordance with Section 3.26 of the Municipal Code.

Information and Minimum Requirements:

1. The existing headworks is generally as shown in the photos and attached drawings.
2. All equipment and materials shall be provided including the grit equipment, drives, mounting, controls, cabinets, and wiring.
3. Equipment, materials and installation shall be readily available for purchase, properly sized, and of high quality normally associated with state-of-the-art equipment installed at wastewater treatment plants in California.
4. Equipment shall be non-corroding.
5. Equipment installation shall anticipate minor variations in the existing headworks from what is shown in the drawings.

6. Grouting up to several inches thick shall be anticipated to shape existing channels to fit grit equipment as generally shown in the attached drawings.
7. A system different than specified in this Request for Bids may be considered if adequate information to demonstrate the proposed system is equal or better than these requirements is provided.
8. Equipment shall operate on 240 volt three phase power.
9. Wiring connection shall start at the power disconnect shown in the photos.
10. Equipment is anticipated to include a chain and flight system in the main grit chamber and a chain and flight system in the grit dewatering channel.
11. The chain and flight system in the main grit channel shall deliver grit to the chain and flight system in the grit dewatering channel.
12. The chain and flight system in the grit dewatering channel shall deliver grit from the hopper in the main grit channel to a bagging attachment chute at the top of the grit dewatering channel.
13. Flights shall run on replaceable non-metallic wear strips.
14. Each chain and flight system shall be independently and automatically controlled.
15. The control panel and cabinet for the equipment shall be generally located where shown on the drawings.
16. All existing conduit at the control panel location shall be connected to the control panel whether or not it is used for the grit equipment.
17. Chain and flight systems shall operate for set periods at set intervals and speeds.
18. Chain and flight periods shall range from 5 seconds to 6 hours
19. Chain and flight intervals shall range from continuous to once every 24 hours.
20. Flight speeds shall be adjustable between 1 and 20 feet per minute.
21. Chain and flight intervals shall be controlled from the control panel.
22. Controls for the grit dewatering channel shall include 240 and 110 volt output to provide power to spray bar installed in grit dewatering channel by others. This output shall activate when grit dewatering channel flights are in operation.
23. The drive for the main grit channel shall be mounted between the control panel and the grit dewatering channel.

24. The drive for the grit dewatering channel shall be mounted at the upper end of the channel.
25. Each drive shall be equipped with a shear pin and limit switch, thermal overload protection, and include output for reporting failure to the Supervisory Control and Data Acquisition (SCADA) system 4/20 MA output running.
26. Putting equipment into service shall consist of a minimum of 6 continuous hours of error free operation.
27. Two paper copies and one electronic copy of training, operation, and service manuals shall be provided.
28. The purchase contract shall include a full submittal and review process including written approval by the city prior to procurement or fabrication of any equipment.
29. Submittals shall be of sufficient detail to determine that requirements and intent of requirements are met.
30. It is anticipated the purchase contract will have the following provisions.
 - a. **Insurance:** Prior to the beginning of and throughout the duration of installation work, the Contractor shall maintain insurance in accordance with the following.
 - Contractor shall provide Commercial General Liability Insurance using Insurance Services Office "Commercial General Liability" policy form CG 00 01, with an edition date prior to 2004, or the exact equivalent. Coverage for an additional insured shall not be limited to its vicarious liability. Defense costs must be paid in addition to limits. Limits shall be no less than \$1,000,000 per occurrence for all covered losses and no less than \$2,000,000 general aggregate.
 - Contractor shall provide Workers' Compensation on a state-approved policy form providing statutory benefits as required by law with employer's liability limits no less than \$1,000,000 per accident for all covered losses.
 - Excess or Umbrella Liability Insurance (Over Primary), if used to meet limit requirements, shall provide coverage at least as broad as specified for the underlying coverages. Such policy or policies shall include as insureds those covered by the underlying policies, including additional insureds.
 - Coverage shall be "pay on behalf", with defense costs payable in addition to policy limits.
 - There shall be no cross liability exclusion precluding coverage for claims or suits by one insured against another.
 - Coverage shall be applicable to City for injury to employees of Contractor, subcontractors or others involved in the work.
 - The scope of coverage provided is subject to approval of City following receipt of proof of insurance as required herein.

- Any insurance proceeds in excess of the required limits and coverage and which is applicable to a given loss will be available to City.
 - The City, including its officers, agents, and employees shall be named as additional insureds under the general and umbrella liability policies.
- b. **Indemnity:** As an express and material term of City's issuance of the Contract, Contractor agrees to indemnify and hold harmless the City, its officers, employees and agents from any and all claims, demands, causes of action, losses or other liabilities for any damage, whether to person or property, whatsoever arising out of or related to the Contractor's work. Contractor further agrees to indemnify and hold harmless the City, its officers, employees and agents for any injury to persons or property occasioned by reason of or arising out of the acts or omissions of Contractor, his/her/its agents, employees, contractors and subcontractors and/or any other person or entity performing work under this contract. It is the intent of this condition that Contractor shall be responsible for all liability for design, fabrication, and installation performed pursuant to this contract and that the City, its officers, employees and agents shall not be liable for any negligence, whether active or passive in nature, nonfeasance, misfeasance, or malfeasance related to or arising from this contract, including but not limited to approving, reviewing, checking, or correcting any plans or specifications or in approving, reviewing, or inspecting any work or construction arising from this contract.
- c. **Payment:** Contractor shall be paid as follows:
- 10% at receipt of complete submittals.
 - 10% at submittal approval.
 - After delivery of the first materials and equipment to the site, payments shall be made as often as monthly based on substantiated payment requests from the Contractor. Substantiation shall include evidence of the materials delivered to the site and the percentage of installation completed.
 - From payments made after the delivery of the first materials and equipment to the site, the City shall retain 10 percent of the estimated value of the work done and 10 percent of the value of estimated to have been furnished and delivered and unused or furnished and stored as aforesaid as part security for the fulfillment of the contract by the Contractor. No retention shall be applied to payments for submittals. Retention shall be paid when all contract requirements are met.

Bid Requirements:

1. Bids shall include all information necessary to determine if bid requirements are met. The documentation accompanying the bid shall be checked to verify requirements are met.
2. Bids shall include a recommended spare parts list.
3. Bids shall include examples of similar projects bidder has accomplished at similar facilities as well as contacts at those facilities that can serve as references for the bidder and the project.
4. Bids shall include a list of staff to be involved in this installation of detailing, fabricating, and installing similar equipment at similar facilities.

5. The bidder shall include a schedule of construction and the date of completion. Bid must include time frame for, submittals, fabrication and delivery to City of Bishop Waste Water Treatment Plant.
6. The bidder may be aware that the city Public Works Crew may be capable of performing some of the installation. The bid shall include a price difference, if any, for the Public Works Crew performing this part of the installation under the direction of the new bidder.
7. The bid shall include one year warrantee for the equipment and for the installation done by the successful bidder. Warrantee shall include the full cost of correcting failures in the system.
8. The city reserves the right to reject any and all proposals and to waive any formalities in the proposal.
9. Only bids from bidders that can provide references and project experience that, in the opinion of the city, demonstrates the bidders ability to successfully implement the work shall be considered.
10. If small business contracting preference is claimed, bid shall be accompanied by the bidders California Small Business number.
11. If local business contracting preference is claimed, bid shall be accompanied with the attached form, completed by the bidder.

Site Photos:



Looking South: The grit dewatering channel (seen on the left), grit chamber drive, conduit stub-ups and panel location



Looking North: Pull Box 1



Looking Northwest: Pull box 2 and conduit stub-up for grit dewatering drive

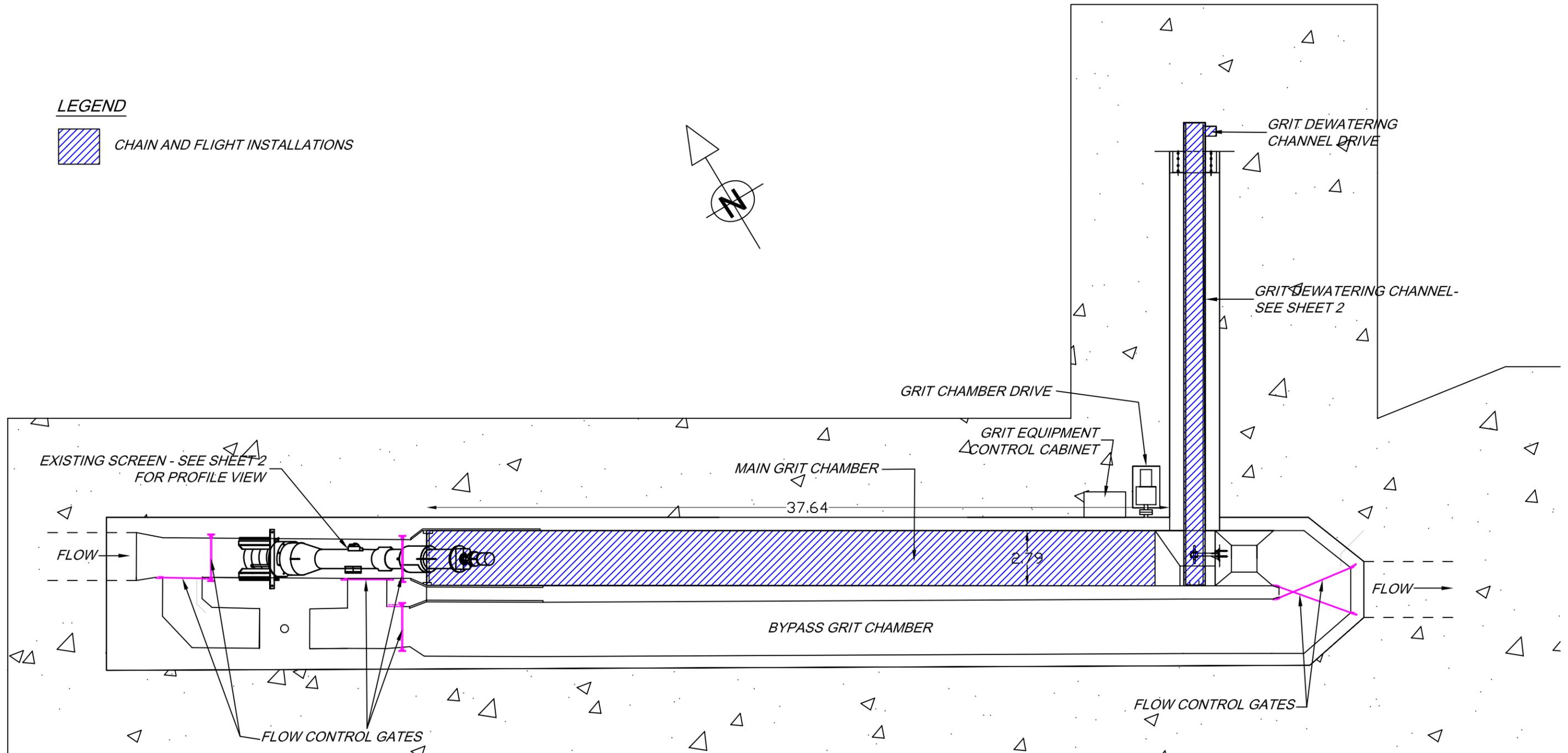


The power disconnect at the City of Bishop's Sewage Plant is located approximately 182 feet from Pull Box #1

NOTE: DIMENSIONS ARE IN FEET

LEGEND

 CHAIN AND FLIGHT INSTALLATIONS



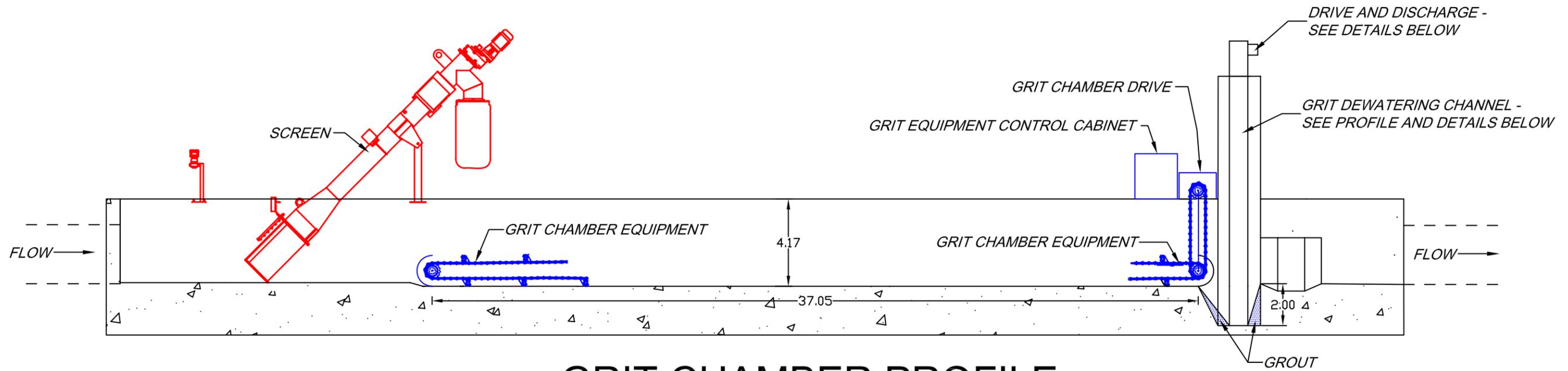
PLAN

CITY OF BISHOP
PUBLIC WORKS

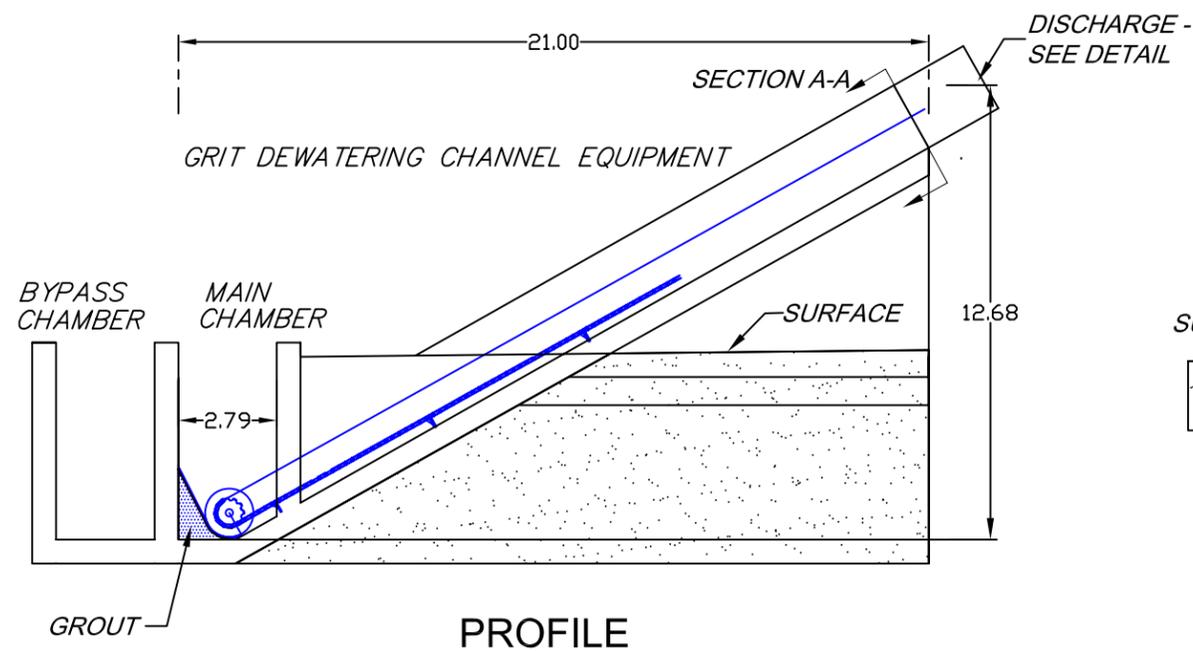
CITY OF BISHOP WWTP
HEADWORKS GRIT EQUIPMENT
GRIT CHAMBER/GRIT DEWATERING CHANNEL LAYOUT
PLAN

DATE
12/18/2012
SCALE
1"=5'
SHEET NO.
1 OF 3
JOB NO.

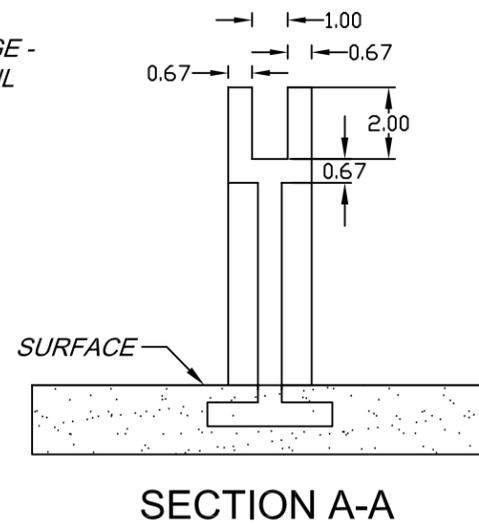
NOTE: DIMENSIONS ARE IN FEET



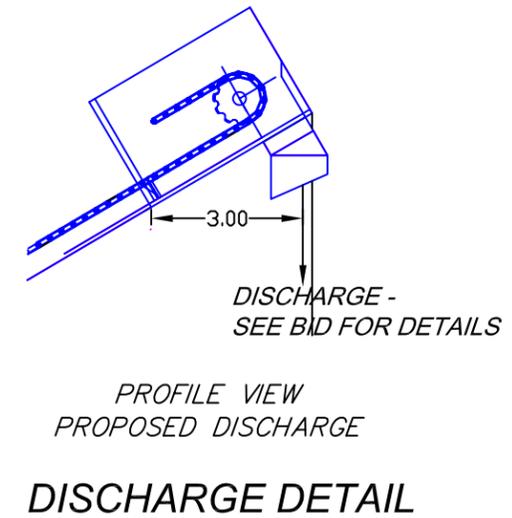
GRIT CHAMBER PROFILE



PROFILE



SECTION A-A

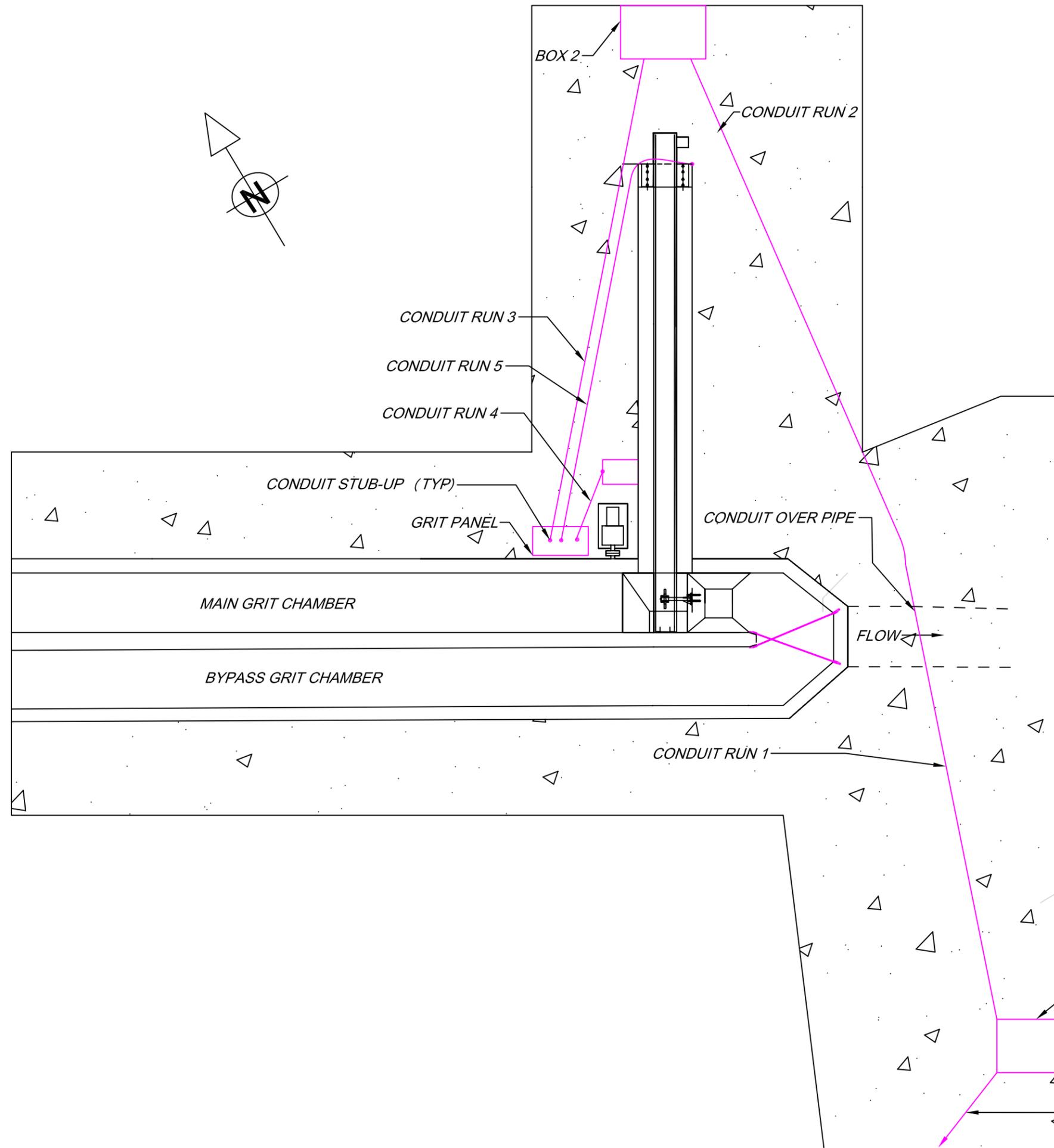


GRIT DEWATERING CHANNEL

CITY OF BISHOP
PUBLIC WORKS

CITY OF BISHOP WWTP
HEADWORKS GRIT EQUIPMENT
GRIT CHAMBER/GRIT DEWATERING CHANNEL LAYOUT
PROFILE AND DETAILS

DATE
12/18/2012
SCALE
1"=5'
SHEET NO.
2 OF 3
JOB NO.



NOTE: CONDUIT 4 IS FOR POWER FOR SPRAY BAR CONTROL VALVE INSTALLED BY OTHERS

NOTE: DIMENSIONS ARE IN FEET

CONDUIT FOR GRIT EQUIPMENT		
CONDUIT RUN	POWER	
	#	SIZE
1	2	1 1/2"
2	2	1 1/2"
3	2	1 1/2"
4	1	1"
5	1	1"

CITY OF BISHOP
PUBLIC WORKS

CITY OF BISHOP WWTP
HEADWORKS CONDUIT LAYOUT
CONDUIT LAYOUT