ADDENDUM No. 1 ITB No. 4467

Barton Dam Hydroturbine: 10-Year Inspection and Overhaul DUE DATE: Tuesday, January 24, 2017 at 10:00 A.M. (local time)

The following changes, additions, and/or deletions shall be made to the Invitation to Bid for Barton Dam Hydroturbine: 10-Year Inspection and Overhaul, on which proposals will be received on/or before Tuesday, January 24, 2017 at 10:00 A.M.

The information contained herein shall take precedence over the original documents and all previous addenda (if any), and is appended thereto. **This Addendum includes 2 pages of text and 19 pages of attachments.**

Bidder is to acknowledge receipt of this Addendum No. 1, including all attachments in his/her Bid by so indicating on page ITB-1 of the Invitation to Bid Form. Bids submitted without acknowledgement of receipt of this addendum will be considered nonconforming.

The following forms provided within the ITB Document must be included in submitted bids at bid opening.

- City of Ann Arbor Prevailing Wage Declaration of Compliance
- City of Ann Arbor Living Wage Ordinance Declaration of Compliance
- Vendor Conflict of Interest Disclosure Form
- City of Ann Arbor Non-Discrimination Ordinance Declaration of Compliance

Bids that fail to provide these completed forms listed above upon bid opening will be rejected as non-responsive and will not be considered for award.

I. CORRECTIONS/ADDITIONS/DELETIONS

Changes to the Bid documents which are outlined below are referenced to a page or Section in which they appear conspicuously. The Bidder is to take note in its review of the documents and include these changes as they may affect work or details in other areas not specifically referenced here.

Section/Page(s)	Change
BF-2	Correct Allowance unit. Add Item 10 "Allowance for Procurement of Additional Parts by Contractor". NOTE: As part of the bid submittal, replace the original BF-2 page with the BF-2 page attached to this addendum.
01000-5	Correct Allowance unit. Add Method of Measurement and Payment for "Allowance for Procurement of Additional Parts by Contractor".
S-101	Revise demolition/reconstruction limits for wall as shown. Note additional field conditions.
M-101	Show additional area to receive paint – wheel pit upper mounting flange for turbine housing.
Addendum-1-1	ioi taronio riodonig.

II. QUESTIONS AND ANSWERS

The following Questions have been received by the City. Responses are being provided in accordance with the terms of the ITB. Respondents are directed to take note in its review of the documents of the following questions and City responses as they affect work or details in other areas not specifically referenced here.

Question 1: Please include photos of the inside of the wheel pit.

Answer 1: Photos included in this addendum.

Question 2: Please include additional sections of the turbine and building.

Answer 2: Additional drawings of machinery (turbine overall section, nose cone, wicket

assembly and gear box) and building included in this addendum. Note: Original building drawings depict the building as constructed in 1912. The turbine equipment

was changed and the structure was modified in 1986.

Question 3: Section 15500 - Overhaul of Turbine Equipment, 3.3 Mechanical Repairs and

Replacements, A,6. Wicket Blades; How many "1-inch diameter each" cavitation

pits are there?

Answer 3: 4 pits, paid per unit each.

Question 4: We understand the Contractor provides the complete draft tube work

platform. Please confirm.

Answer 4: The Contractor shall provide all scaffolds, platforms and means of access to the

draft tube work.

Question 5: Can a drawing of the wicket gate servos be supplied?

Answer 5: Drawing included in this addendum.

Question 6: Section 09900 -Painting, 1.1 Description, C, Paint Applications. Is there more

submerged metal expected to be painted beyond the turbine housing and wicket

assembly?

Answer 6: No.

Question 7: Confirm that the complete disassembly of the turbine IS NOT included as part of

the base bid. (The turbine shaft, runner, bulkhead, wicket operating mechanism)

Answer 7: Removing the turbine nose cone and inspecting link arms, and documenting

wicket and runner clearances and bearing clearances ARE included in the Base Bid. Sections 15500.3.2.B.3, .4 and .5 indicate what is required as part of the

Base Bid. Items pertaining to the Bid Alternate are in section 15500.3.6.

Question 8: What type of grout do you want to use for the "new grout fillet"?

Answer 8: Provide monolithic concrete per the specification, without midrange.

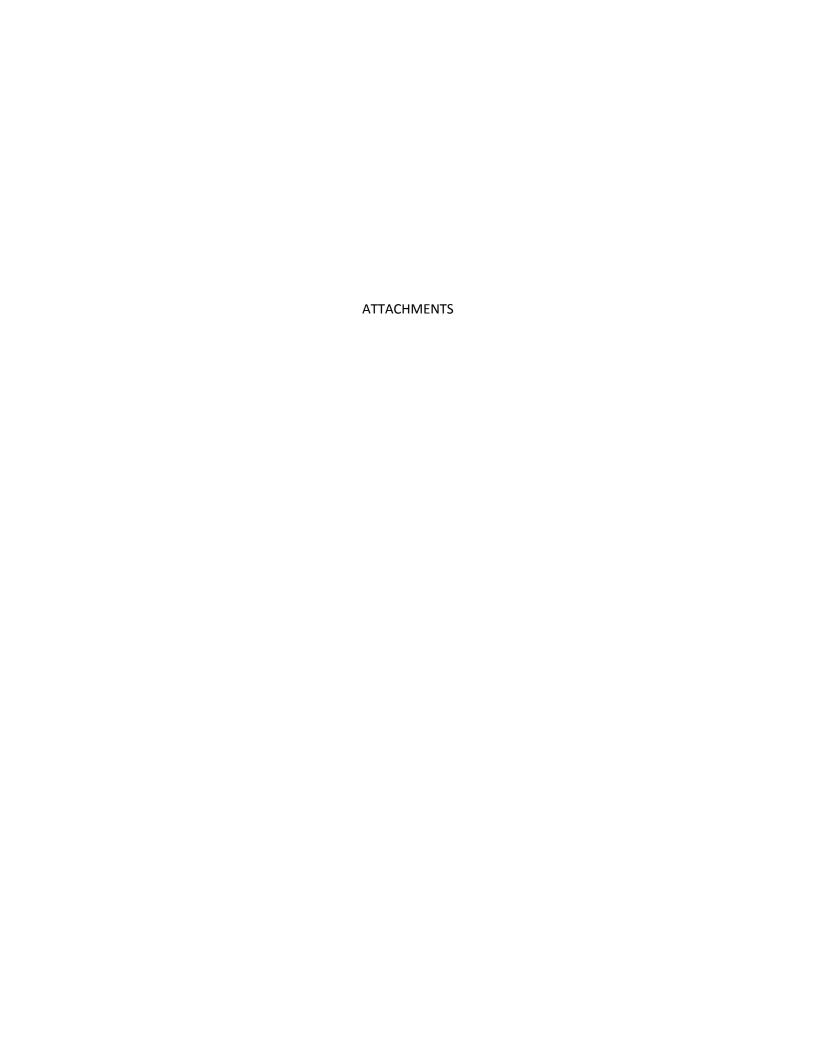
Question 9: We would like to submit an Irrevocable Letter of Credit in the amount of our bid in

lieu of the Performance and Labor and Material Bond. Is this acceptable?

Answer 9: Pursuant to the ITB# Document the City will only accept the Surety Bonds

required and outlined in Section 29 on Page GC-12.

Respondents are responsible for any conclusions that they may draw from the information contained in the Addendum.



8	Demobilization	1	LS	\$	\$
9	Allowance	1	Alwnc¹	\$ 50,000	\$ 50,000
10	Allowance for Procurement of Additional Parts by Contractor	1	Alwnc	\$ 30,000	\$ 30,000 ¹
		\$			

Total Base Bid:		Dollars (\$))
(Amount shall be s	shown in both words and figures. Ir	n case of a discrepancy, the amount shown in word	S
shall govern.)			

BID A	ALTERNATES				
1	Concrete Repairs	\$			
2	Additional Mechanical Repairs				
2a	Runner servo	1	LS	\$	\$
2b	Runner rebuild	1	LS	\$	\$
2c	Wicket rebuild	\$			
		\$			

Total Alternate Bid:	 I IAIIAre I	(\$)
		,

(Amount shall be shown in both words and figures. In case of a discrepancy, the amount shown in words shall govern.)

1. Addendum #1 January 17, 2016

ITEM IN PROPOSAL METHOD OF MEASUREMENT BASIS OF PAYMENT

Startup, Testing, Commissioning

By the unit lump sum (LS) Complete services as described in

Specifications.

Demobilization By the unit lump sum (LS) Complete demobilization from jobsite.

Allowance By the unit Allowance (Alwnc)1 Only for items that are pre-approved by

the OWNER, which fall outside of the BASE or selected ALTERNATE scope

of work.

Allowance for **Procurement of Additional Parts by** Contractor

By the unit Allowance (Alwnc)

For procurement, shipment and storage of select parts that are identified as Owner-Furnished under 01010,1.1,C,7. Section Contractor and OWNER will jointly determine which items from Section 01010,1.1,C,7 will be purchased by the CONTRACTOR and which items will be purchased by the OWNER. **CONTRACTOR-purchased items will** be paid out of this allowance. NOTE: Separate to this item, Contractor's based scope shall still include purchasing miscellaneous parts required under the Base Bid (e.q. 15500,1.1,D; 15500,3.1,I; 15500,3.1,J).1

BID ITEM - ALTERNATES

Concrete Repairs By the unit lump sum (LS) Underpinning, demolition, reinforcing,

concrete, forming, testing and curing

and all related work.

ADDITIONAL MECH. REPAIRS AND REPLACEMENTS

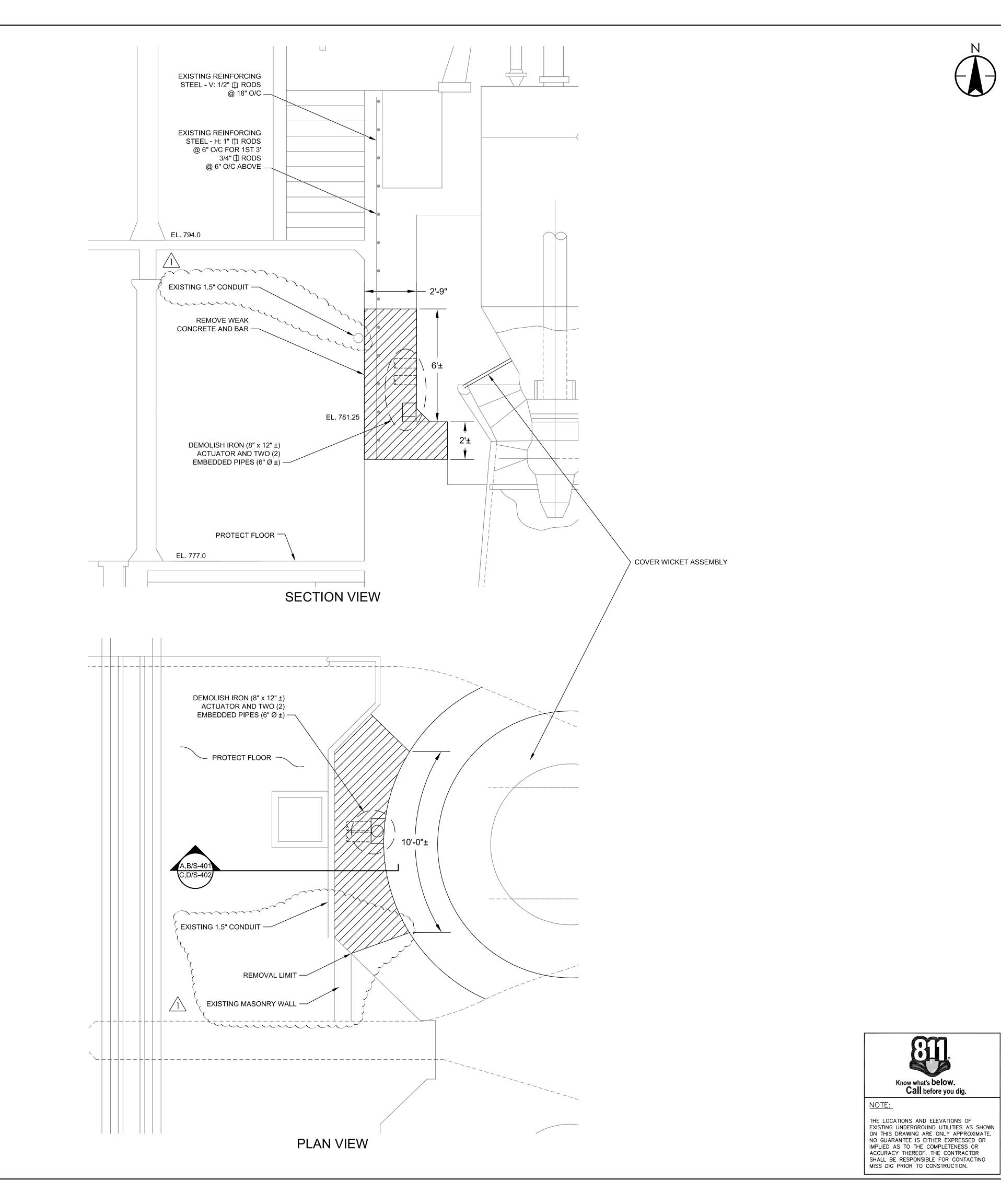
Runner Servo By the unit lump sum (LS) Complete work as specified.

Runner Rebuild By the unit lump sum (LS) Complete work as specified.

Wicket Rebuild By the unit lump sum (LS) Complete work as specified.

END OF SECTION

1. Addendum #1 January 17, 2017





3/54 Ranchero Dr.
Ann Arbor, MI 48108
www.stantec.com

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DATUM: ORIGINAL (NGVD29 ASSUMED)

NOTES:

- CONTRACTOR SHALL PROTECT FLOOR @ 777.0 BY COVERING WITH PLANKING OR PLYWOOD AND SHALL TAKE SPECIAL PRECAUTIONS TO PREVENT ANY DEBRIS FROM ENTERING THE WICKET ASSEMBLY INCLUDING COMPLETELY COVERING THE WICKET OPENING WITH PLASTIC AND PLYWOOD.
- 2. EXACT DEMOLITION LIMITS TO BE FIELD DETERMINED BY ENGINEER.
- 3. GENERATOR, SUPPORT AND SPEED INCREASER MUST BE REMOVED BEFORE COMMENCING DEMOLITION. REFER TO DRAWING NO. M-101.
- 4. ALL EDGES SHALL BE SAWCUT 3" MIN. FROM OUTSIDE FACE.
- 5. ALL SAWCUT LINES SHALL BE AT RIGHT ANGLES, PARALLEL AND PERPENDICULAR.
- 6. ALL CONCRETE DUST SHALL BE CONTAINED AND PREVENTED FROM ENTERING THE RIVER OR MACHINERY.
- 7. REFER TO S-401 AND S-402 FOR PHASING OF WORK.

Е	ADDENDUM #1 🛆			17.01.12
D	FINAL REVIEW			16.12.16
С	OWNER REVIEW			16.12.12
В	REVISION			16.12.12
Α	PRELIMINARY			16.11.18
Iss	ued	Ву	Appd.	YY.MM.DD

Dwn. Chkd. Dsgn. YY.MM.DD
Permit-Seal

Client/Project

File Name: 139801S-101.DWG

CITY OF ANN ARBOR

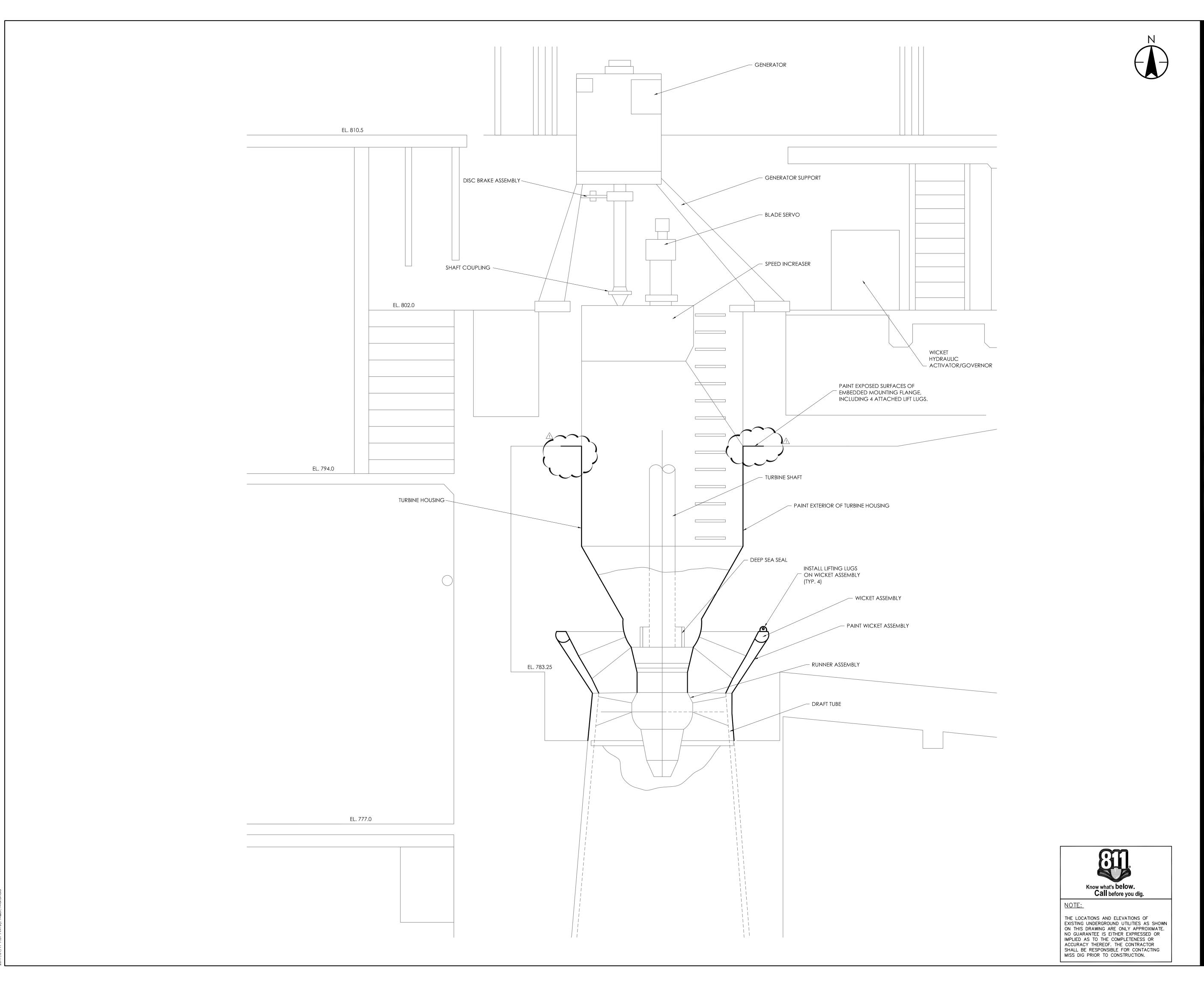
BARTON DAM HYDROTURBINE 10-YEAR INSEPECTION & OVERHAUL Ann Arbor, Michigan

Title

DEMOLITION PLAN AND SECTION

Project No. 2075139801	Scale 0	2'	4'	_
Drawing No.	Sheet		Revision	
S-101	4 of 7		0	

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1. SEE SPECIFICATIONS FOR FULL WORK REQUIREMENTS.

 E ADDENDUM #1 ⚠
 17.01.12

 D FINAL REVIEW
 16.12.16

 C OWNER REVIEW
 16.12.12

 B REVISION
 16.12.12

 A PRELIMINARY
 16.11.18

 ISSUED
 By Appd. YY.MM.DD

 File Name: 139801M-101.DWG
 MRH

 Dwn. Chkd. Dsgn. YY.MM.DD

 Permit-Seal

Client/Project

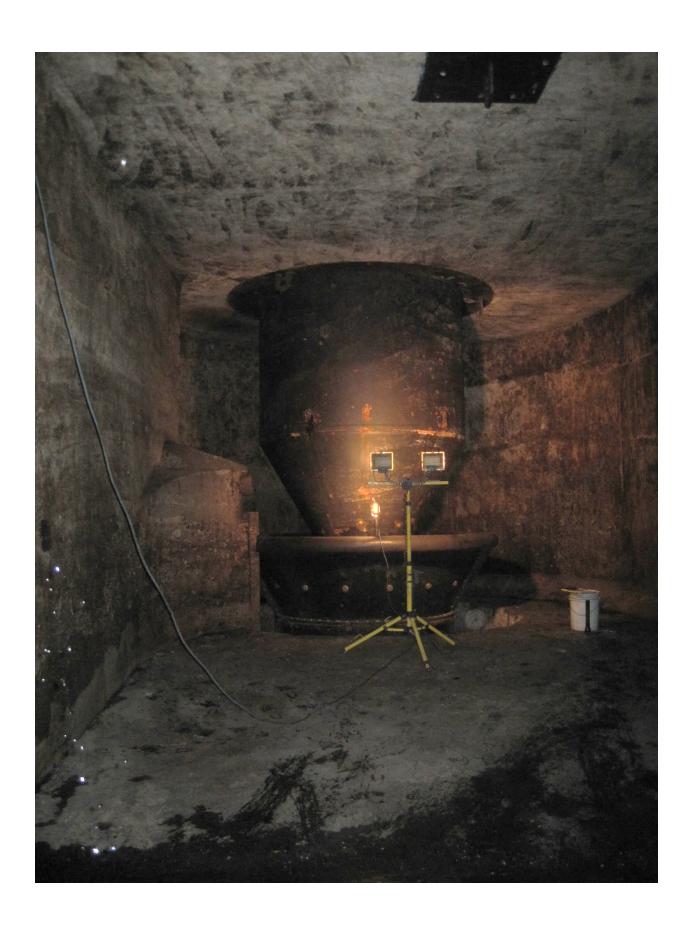
CITY OF ANN ARBOR

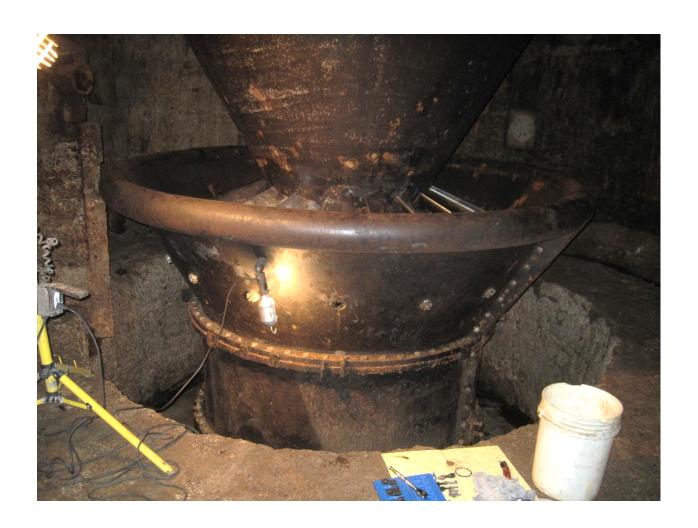
BARTON DAM HYDROTURBINE 10-YEAR INSEPECTION & OVERHAUL Ann Arbor, Michigan

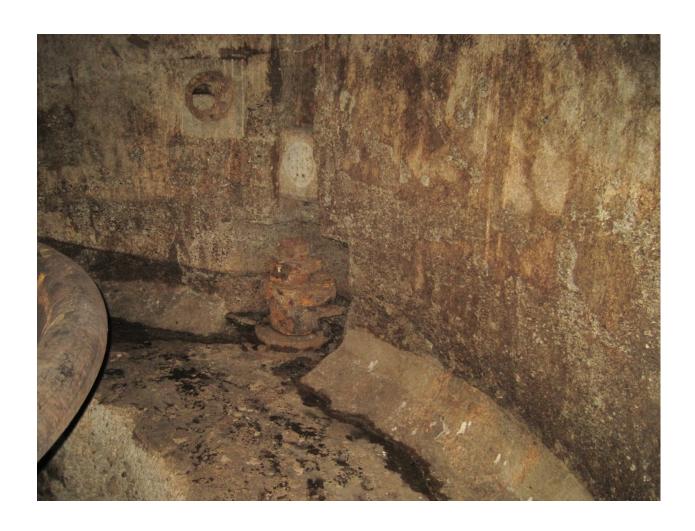
Title

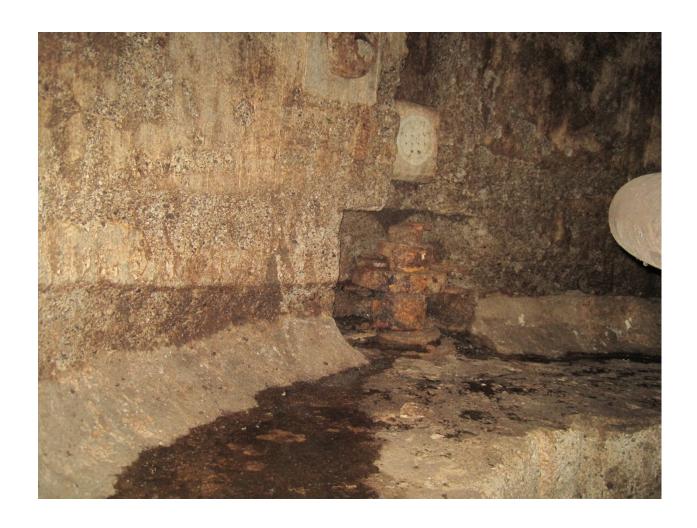
PROPOSED WORK SECTION

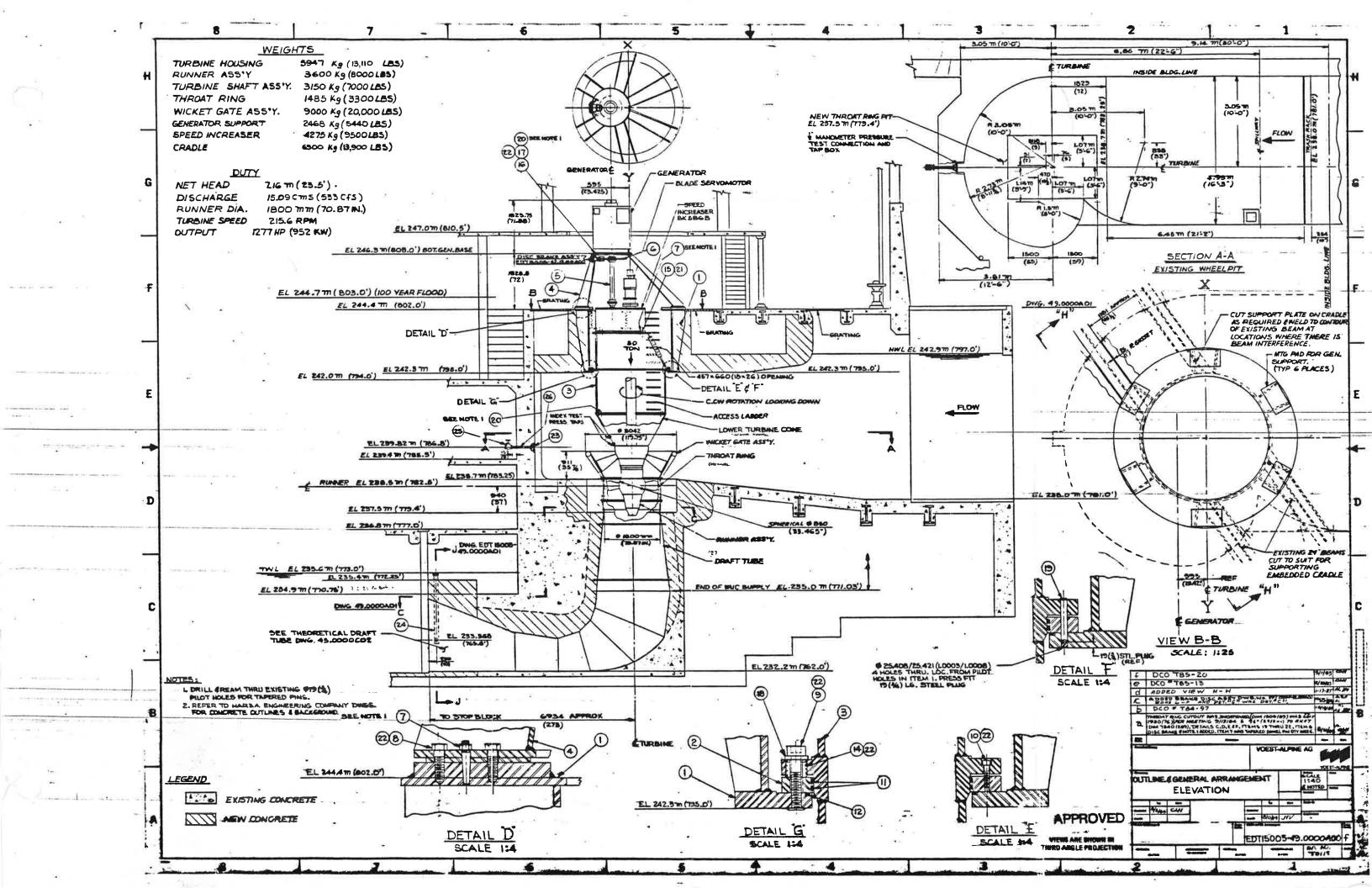
Project No. 2075139801	Scale 0 1'	2'	4'
Drawing No.	Sheet		Revision
M-101	7 of 7		0











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CON.	PROJECT NAME: BARTON DAM CONTRACT NO: APPROVI PROJECT NO: 15005 TYPENO. OF UNITS:					PROVED	ASSI OUT	EMBLY LINE 8	GENERAL ARRANGEMEN	VT E	assembly no. EDT15005-49.0000A <i>0</i> 0
ITEM	DCO NO	PER	DESCRIPTION	DRAWING NO.	REV.	MATERIAL	QA	CODE	SPECIFICATION	REV.	REMARKS
- 1		1	LINER WELDMENT (CRADLE)	EDT/5005- 49.002/A00	a	ASTM A36	B		EFT0000-40.0307E EST0000-40.0101E		EMBEDDED PART BY VA
- 2		1	SEAL RING	EDT 15005- 41.0022C00	0	ASTM A36	Ä				SUPPLIED BY VA
- 3		I	TURBINE HSG. WELDMENT	EDT 15005 - 41.0021A00	a	ASTM A36	Α				SUPPLIED BY VA
- 4		H	SUPPORT, GENERATOR	EDT15005- 49.0022A00	0	ASTM A36	B		+		SUPPLIED BY VA
- 5	185-5	1	FLOATING SHAFT CPLG				В				PHILA.GEAR CORP, DWG. NO. 03020-0061
-6	T85-5	ī	BRAKE DISC	EDT 15005- 49.0024D 00		AISI 1045	B				
- 7		10	TAPERED DOWEL PIN-THREADED	#12×41/2 LG	387	STEEL	С				
- 8		24	HEX.HD CAP SCR	14-7NCX 3/2 LG		STEEL	C				
- 9		18	SOC HD CAP SCR	14-7 NC X 7"		STEEL Y. P. 155 000	С				
-10		12	SOC HD CAP SCR	%-11NC×3 LG		STEEL V.P. 170, 200	С				147
-11		2	"O"RING % DIAX 25'-0" LG.			BUNA N DURO GO	C				CUT TO SUIT "O' RING GROOVES IN ITEM 2 SCARF ENDS & BOND USING ITEM 13
- 12		١	"O"RING 3/8 DIA X 26'-0" LG.			BUNA N DURO GO	С				CUTTO SUIT "O'RING GROOVE IN ITEM I SCARF ENDS & BOND USING ITEM IS FOR BONDING SCARFED ENDS OF
13		AS REQ	ADHESIVE				C				FOR BONDING SCARFED ENDS OF ITEMS II É 12
-14		18	BUSHING	EDT 15005- 41.0023D00	a	CDS 4181 C1018	C				S
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PROJECT NAME: BARTON DAM				AF	PROVED	OUT	EMBLY LINE RAN	ÉGENERAL GEMENT		_assembly no 5005-49.0000A00 rev_d	
ITEM	DCO NO.	PER	DESCRIPTION	DRAWING NO.	REV.	MATERIAL	QA	CODE	SPECIFICATION	REV.	REMARKS
- 15		6	HEX HD CAP SCR	13/4-5 UNC X 6 _G		STL, SAE GRADE 5	С				
- 16		8		14-7UNC×4 LG		STL, SAE GRADE 5	С				
-17		8	HEAVY HEX NUT	14-7 UNC		STL ASTM A194:CL 2H	С				
- 18		18	WASHER-FLAT	1元1.D.×30,D.×至TH		STEEL	C				17.
- 19		4	PULL OUT DOWEL PIN	EDT 15005 - 49.0025000		STN, STL, TYPE 303 ACC'Y STOCK	C				
- 20		8	TAPERED DOWEL PIN	#12 × 3" LG		STL	С				
-21		6	HEAVY HEX NUT	13/4-5UNC		STL, ASTM A194 CL 2H	С				
- 22		Ī	LOCTITE	•		CAT. NO. 242-31	C				1.69 FL.OZ, (50CC)
-23	T 85-20	١	PRESSURE TAPPING ASS'Y. FOR INDEX TEST	4 7.002 5000		STN: 576. TYPE 304.					
-24	785-20 785-40	2	CABLE STUFFING BOX	EDT 15005- 49.0026000		STEEL PIPE BRASS PIPE CAP					
- 25	T85-20	I	BALL VALVE	之" NPT		BRASS					JENKINS 300#
-26	T85-20	1	5CH 40 PIPE 1/2" × 18" LG	1.80 1.41		TYPE 304 STH 57L					
-	Hu I		70 F	6 3							
4	Prepared By: CH 9/4/84 Reviewed By: AL 9/20/84 Approved By: If Vach DCO NO: Rev. DCO NO. Rev. DC										

