ADDENDUM No. 1

Hayden Area Regional Sewer Board (HARSB)
HARSB Phase 2 Tertiary Treatment and Biosolids Project
Kootenai County, Idaho

July 30th, 2021

Addendum No. 1 to the **HARSB Phase 2 Tertiary Treatment and Biosolids Project** Bidding Documents prepared by J-U-B Engineers, Inc., WesTech Engineering, and Aqua Engineering is hereby submitted for use in bid preparation and submittal. The following clarifications, corrections, or changes are hereby made as fully and completely as if the same were entirely set forth in the Bidding Documents, and shall become an integral part of any contract entered into between the Owner and Contractor for this project.

GENERAL

PRE-BID MEETING:

Notes, sign-in sheet, and powerpoint from the Pre-Bid Meeting are **attached**.

COMBINED SITE CIVIL AND YARD PIPING PDFs:

At the Contractors' request, a Combined Site Civil Exhibit and Combined Yard Piping Exhibit are **attached**. These two exhibits combine the information presented in the plan areas shown on the CG and CU sheets in Volume 4. These exhibits are not part of the Contract Documents and have been prepared solely as a convenience for the Contractor in visualization of the project extents. While these exhibits are generally believed to be reliable, the only documents the Contractor may legally rely upon are the Contract Documents.

VOLUME 1 – BIDDING AND AGREEMENT FORMS

ADVERTISEMENT:

Revise any and all references to the **Bid Opening time to 2:00 pm local time**. The bid opening date remains the same.

Revise the following list of prequalified electrical subcontractors as follows:

- Revise "B&B Electric" to read "B&E Electric"
- Revise "Shannon Electrical Contractors" to read "Shannon Industrial Contractors"

ISPWC 00200 - INSTRUCTION TO BIDDERS:

Revise Article 19.08 as follows:

> "19.08: Determination of the Lowest Bid price shall be based on the TOTAL BID PRICE = Base Bid plus the sum of all Additive Alternates."

SECTION 4-A DAVIS-BACON PREVAILING WAGE DECISION:

Add the attached document to Section 4A Davis-Bacon Prevailing Wage Decision, titled: *Guidance regarding the "List of Previously Conformed Additional Classifications".* The document is **attached** to this addendum (2 pages).

VOLUME 2 – TECHNICAL SPECIFICATIONS (Divisions 1-15)

SECTION 01300 – SUBMITTALS

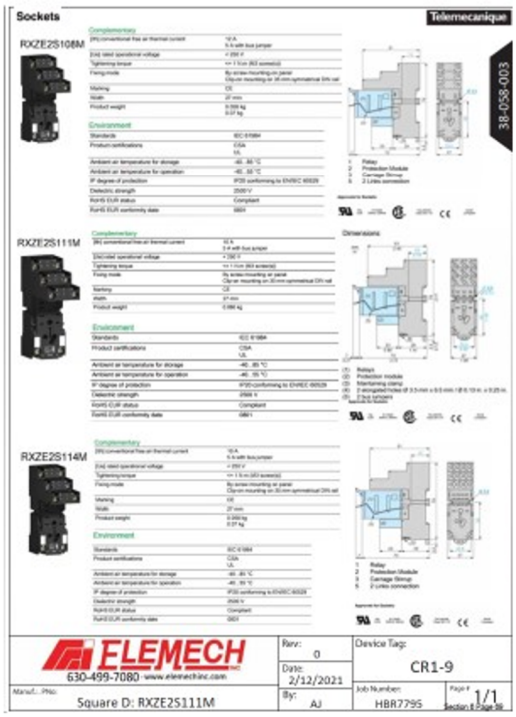
Replace Subsection **1.4.N** with the following:

"Submitted data, equipment, and O&M information shall be HARSB project specific. Submittal information that is conflicting, irrelevant, or not specific to the Project shall be deleted or whited out not to be visible by the Contractor during the mark-up and prior to submission. Submittal information not conforming to this standard shall be returned for correction and will require resubmittal prior to approval."

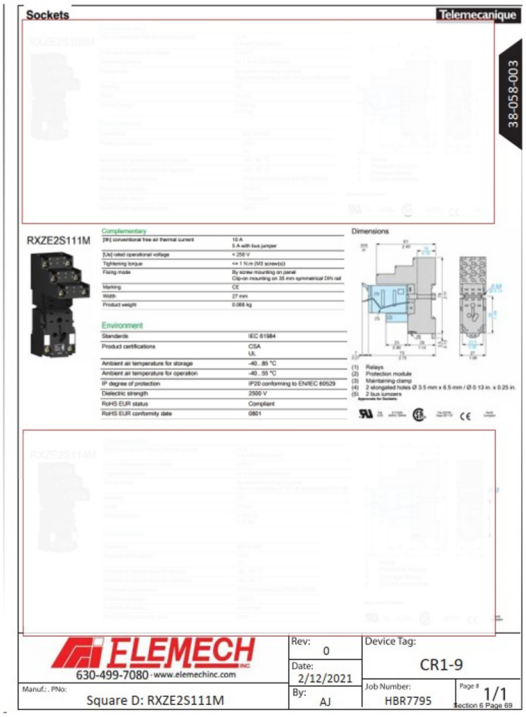
See example of acceptable submittal below.

HARSB SUBMITTAL EXAMPLE

VENDOR'S ORIGINAL



CONTRACTOR'S MARKUP FOR HARSB SUBMITTAL



BLANK OUT VENDOR INFORMATION THAT DOES NOT APPLY TO THE HARSB PROJECT

Replace Subsection **1.5.B** with the following:

"Unless otherwise specified, within 21 calendar days after receipt of a submittal for review and comment, the Engineer shall review the submittal and provide comments and/or markups as necessary. The Engineer's review will result in the following submittal review designations:

1. No Exceptions Taken – does not require resubmittal
2. Revise and Resubmit – requires resubmittal
3. Rejected – requires resubmittal
4. Submit Specific Item – requires resubmittal"

Update submittal timeframe stated in **1.15.C** as follows:
"All submittals, unless noted otherwise in the Contract Documents, shall be submitted within one hundred and twenty (120) days from the Notice to Proceed…"

SECTION 01625 – OWNER FURNISHED EQUIPMENT AND MATERIALS COORDINATION AND INSTALLATION

Add the following paragraph 1.6 SUBMITTALS:

1.6 SUBMITTALS:

A. Contractor to compare vendor provided drawings (Owner Furnished items) and submittal data in Volume 7 through 11 for of Owner Furnished Materials and Equipment and cross-reference with Design Contract Documents.

1. Submit cross-reference shop drawing information to Owner and Engineer for review. Shop drawings shall show layout and interfacing elements of Owner Furnished items with Contractor furnished foundations, and structures including but not limited-to, anchor bolt and mounting layouts, connections to related components and piping, and electrical connection points. Identify any discrepancies between the Contract Documents and the Owner-Furnished equipment information and notify Owner and Engineer.
2. Owner and Engineer will review Contractor's submittal information including any identified discrepancies. Incomplete submittals will be rejected.

SECTION 03350 – Concrete Finishing

Add the following under 2.2.A.1 – Manufacturers:

"f. Liqui-Hard"

SECTION 15184 – Solar Dryer Radiant Heating System Piping

Replace paragraph 2.2.F.1.d with paragraph below. The size of piping is corrected to ¾" from currently listed 4/4"

d. Header assembly: In-slab reverse return header assembly shall be constructed of 3/4 inch hePEX with Engineered Polymer ASTM F1960 cold expansion fittings.

VOLUME 3 – TECHNICAL SPECIFICATIONS (Division 16)

No updates this addendum.

VOLUME 4 – PLANS (J-U-B Engineers, Inc)

Drawing G00-013

Modify information in pipe schedule for TEI / TER, Tertiary Equalization Influent / Return as follows:

- Size: 4" – 12"
- Installation: Buried
- Pipe Spec: PVC-P-2
- Pipe Lining: None
- Fitting Lining: E
- Pipe Joints: P, M
- Fitting Joints: M
- Max. Operating Pressure (PSI): 150
- Test Pressure (PSI) & Type or Specification: 150, H
- Remarks: --
- Pipe Solid Color: N/A

Add a new line item in the Pipe Schedule as follows:

- Legend: TEI / TER
- Service: Tertiary Equalization Influent / Return
- Size: 14" – 36"
- Installation: Buried
- Pipe Spec: PVC-P-3
- Pipe Lining: None
- Fitting Lining: E
- Pipe Joints: P, M
- Fitting Joints: M
- Max. Operating Pressure (PSI): 150
- Test Pressure (PSI) & Type or Specification: 150, H
- Remarks: --
- Pipe Solid Color: N/A

Drawing CU00-001

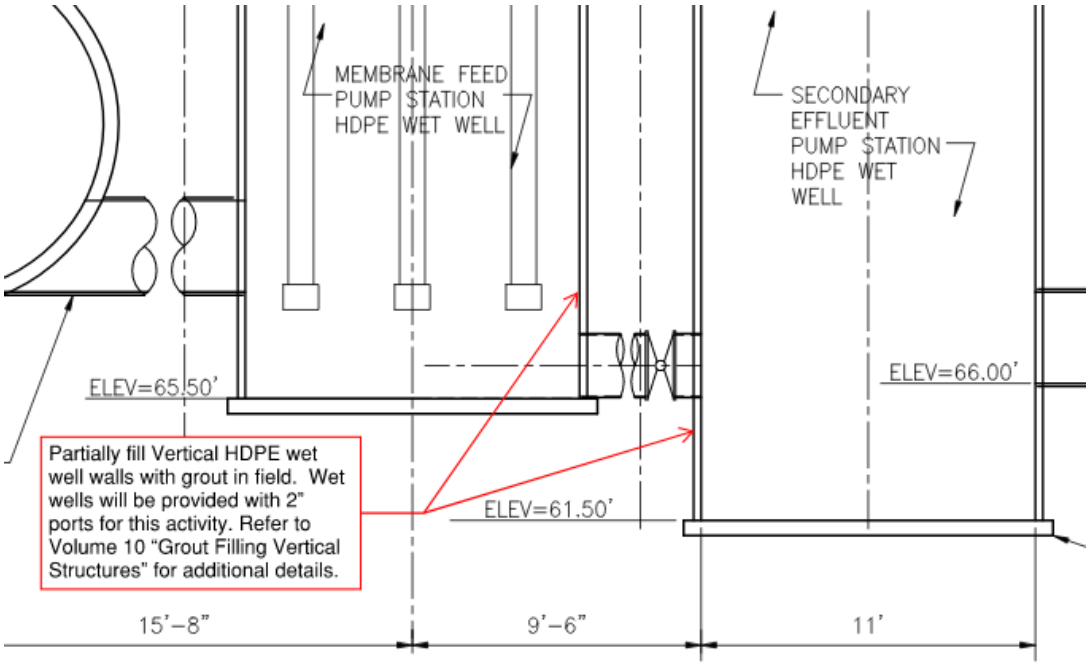
Add excavation depth to Yard Piping Note #16 as follows:

> "… Contractor responsible for providing excavation of trench to a depth of 42" below finished grade, Avista-approved sand for bedding, backfill, and compaction…"

Drawings S42-302 and S42-306

Add callouts pointing and Membrane Feed Pump Station Wet Well and Secondary Effluent HDPE Pump Station Wet Well reading:

> "Partially fill vertical HDPE wet well walls with grout in field. Wet wells will be provided with 2" ports for this activity. Refer to Volume 10 "Grout Filling Vertical Structures" for additional details."



Drawings S80-101, S80-102, S80-103, S80-201, S80-202, S80-204, S80-205, S80-901, S80-902, S80-903, et al

The Screw Press Platform as detailed and specified on the Drawings for the Dewatering Building is an Aluminum system. At the Contractor's option it is permissible to provide a similar system that is made from hot-dip galvanized steel. Members shall have the same outer dimensions and minimum material thickness as the indicated Aluminum system. Materials and fabrication of the provided system shall conform to the requirements of Specification Section 05500 – Metal Fabrications. All structural steel members shall be hot-dip galvanized after shop fabrication. Bolts and associated hardware may be zinc-plated. System shall be fabricated in-order-to facilitate future disassembly for equipment maintenance as indicated on the Drawings for the specified Aluminum system.

VOLUME 5 – PLANS (WesTech Engineering)

Sheet I42-701

Add "Note 1" within the Equipment Boundary Line around the Strainers 42-MF-STR-901 and 42-MF-STR-902.

VOLUME 6 – PLANS (Aqua Engineering)

No updates this Addendum.

VOLUME 7 – PRE-PROCURED MATERIALS INFORMATION (WesTech Integrated Tertiary Treatment Equipment)

No updates this Addendum.

VOLUME 8 – PRE-PROCURED MATERIALS INFORMATION (ABC Pre-Engineered Metal Buildings)

No updates this Addendum.

VOLUME 9 – PRE-PROCURED MATERIALS INFORMATION (Huber Solar Dryer Equipment)

No updates this Addendum.

VOLUME 10 – PRE-PROCURED MATERIALS INFORMATION (Weholite HDPE Tanks)

Volume 10

Add "For Approval" Drawings of Weholite Tanks after Weholite Installation Guide documents. These Drawings are **attached**. These drawings are informational and intended to aid the Contractor in bid development. Although the Owner and Engineer have reviewed earlier Tank drawing submittals and do not expect major deviations from the attached Drawings, these Drawings have not yet been approved for fabrication and may be subject to change. The attachment also includes a Bill of Materials identifying tank weights.

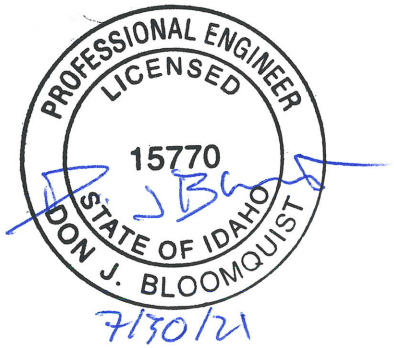
VOLUME 11 – PRE-PROCURED MATERIALS INFORMATION (Miscellaneous)

No updates this addendum.

NOTICE is hereby given that this Addendum must be acknowledged on the Bid for **HARSB Phase 2 Tertiary Treatment and Biosolids Project** as evidence that the Bidder is familiar with all changes incorporated herein.

Addendum Issued by:

J-U-B ENGINEERS, Inc.



Don Bloomquist, P.E.
Project Engineer

ATTACHMENT - Guidance regarding the "List of Previously Conformed Additional Classifications"

Guidance regarding the "List of Previously Conformed Additional Classifications":

- This list of previously conformed additional classifications includes wage classifications and rates that were conformed (aka approved) by the U.S. Department of Labor (USDOL) for wastewater construction projects in Kootenai County that are similar in scope of work to the HARSB Phase 2 Tertiary Treatment and Biosolids Project.

- This list is being provided for **informational purposes only.** The rates contained on this list are not a guarantee that the USDOL will conform the same classifications at the listed rates provided, nor do the project owner, engineers, or the labor monitoring specialists for the project recommend that these exact rates be used for requests for additional classifications upon project award.

- When estimating rates for additional classifications in preparing bids and when requesting additional classifications after project award, contractors must perform due diligence as suggested in the Bid Document guidance in proposing an hourly base rate and bona fide fringe benefit rate that bears a reasonable relationship to the wages listed in the Heavy Wage Decision issued for bidding for the HARSB Phase 2 Tertiary Treatment and Biosolids Project.

LIST OF PREVIOUSLY CONFORMED ADDITIONAL CLASSIFICATIONS (continued on page 2)				
Classification (In Alphabetical Order)	Base Rate	Fringe Rate	Total Prevailing Wage	Date of DOL Conformance (Approval)
Crane Operator	$29.04	$15.95	$44.99	October 2020
Blow-in Insulation Installer	$29.07	$14.13	$43.20	April 2021
Block Mason	$26.01	$12.14	$38.15	August 2014
Concrete Saw, Walking	$29.06	$13.75	$42.81	March 2021
Dozer	$27.09	$12.85	$39.94	August 2014
Drywall Hanger	$26.06	$11.26	$37.32	August 2014
Fence Installer	$24.34	$10.65	$34.99	August 2014
Finish Roller	$25.77	$11.76	$37.53	August 2014
Glazier	$29.07	$14.13	$43.20	January 2021
Gradall Operator	$26.60	$11.76	$38.36	August 2014
Hod Carrier	$24.34	$10.65	$34.99	August 2014
Laborer: Asphalt (includes raker, shoveler, spreader & distributor)	$22.86	$9.40	$32.26	November 2020
Landscape Laborer	$18.04	$6.60	$24.64	August 2014
Paver Operator	$25.78	$11.50	$37.28	August 2014
Pipelayer	$24.34	$10.65	$34.99	August 2014
Pump Operator	$27.12	$17.40	$44.52	November 2020

List continued on next page

Refrigeration & Air Conditioning Mechanic	$34.53	$21.17	$55.70	April 2021
Metal Roofer	$24.34	$10.65	$34.99	August 2014
Screed Operator	$26.06	$11.56	$37.62	August 2014
Soft Floor Installation	$22.58	$6.51	$29.09	March 2021
Subgrade Roller	$19.99	$7.99	$27.98	August 2014
Tile Setter	$21.76	$9.81	$31.57	September 2014
Truck Driver - Mixer	$27.12	$17.40	$44.52	November 2020

ATTACHMENT -
Weholite "For Approval" Drawings
(Volume 10)

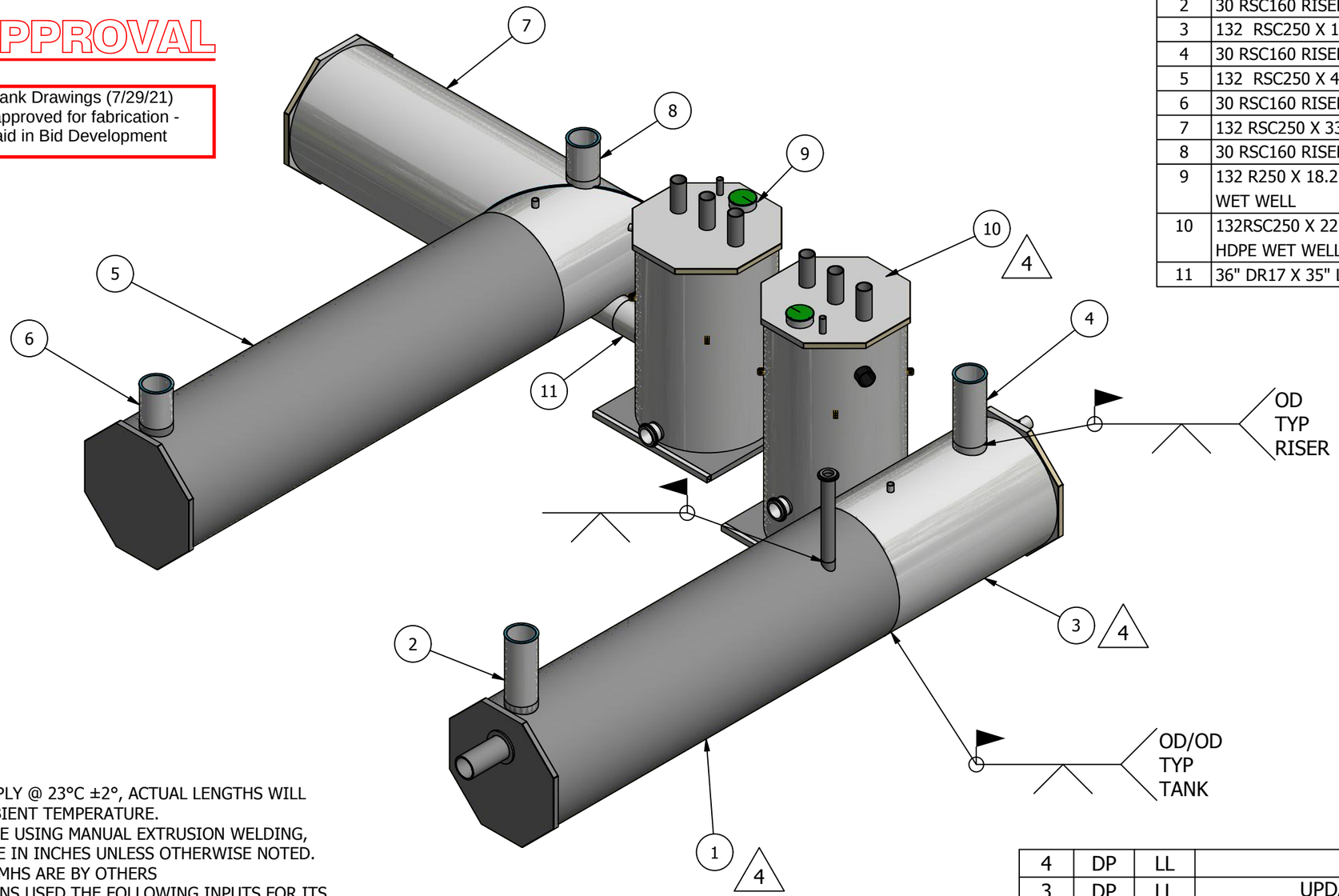
Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

132 RSC250 TANKS LAYOUT BOM/ DWG NO:2511

ITEM	DESCRIPTION	DWG NO	WT LB/UNIT	QTY	NOTE	
1	132 RSC250 X 40 FT STORAGE TANK A1	2511-1	16,500	1		
2	30 RSC160 RISER EXTENSION FOR TANK A1	2511-1A	260	1		
3	132 RSC250 X 18 FT STORAGE TANK A2	2511-2	9,500	1		
4	30 RSC160 RISER EXTENSION FOR TANK A2	2511-2A	260	1		
5	132 RSC250 X 43.3 FT STORAGE TANK B1	2511-3	18,500	1		
6	30 RSC160 RISER EXTENSION FOR TANK B1	2511-3A	160	1		
7	132 RSC250 X 33FT STORAGE TABK B2	2511-4	16,500	1		
8	30 RSC160 RISER EXTENSION FOR TANK B2	2511-4A	160	1		
9	132 R250 X 18.2 FT MEMERANE FEED PS HDPE WET WELL	2511-5	13,000	1	7050	GROUT WEIGHT IN PROFILES BY OTHERS
10	132RSC250 X 22.2 FT SECONDARY EFFLUENT PS HDPE WET WELL	2511-6	14,500	1	13720	
11	36" DR17 X 35" LG HDPE PIPE PE4710		410	2		

FOR APPROVAL

Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development



PARTS LIST

ITEM	DESCRIPTION	DWG NO	QTY
1	132 RSC250 X 40 FT STORAGE TANK A1	2511-1	1
2	30 RSC160 RISER EXTENSION FOR TANK A1	2511-1A	1
3	132 RSC250 X 18 FT STORAGE TANK A2	2511-2	1
4	30 RSC160 RISER EXTENSION FOR TANK A2	2511-2A	1
5	132 RSC250 X 43.3 FT STORAGE TANK B1	2511-3	1
6	30 RSC160 RISER EXTENSION FOR TANK B1	2511-3A	1
7	132 RSC250 X 33FT STORAGE TABK B2	2511-4	1
8	30 RSC160 RISER EXTENSION FOR TANK B2	2511-4A	1
9	132 R250 X 18.2 FT MEMERANE FEED PS HDPE WET WELL	2511-5	1
10	132RSC250 X 22.2 FT SECONDARY EFFLUENT PS HDPE WET WELL	2511-6	1
11	36" DR17 X 35" LG HDPE PIPE PE4710		2

NOTES:

1. ALL DIMENSIONS APPLY @ 23°C ±2°, ACTUAL LENGTHS WILL VARY BASED ON AMBIENT TEMPERATURE.
2. ALL WELDS ARE MADE USING MANUAL EXTRUSION WELDING,
3. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
4. ACCESS HATCH FOR MHS ARE BY OTHERS
5. INFRA PIPE SOLUTIONS USED THE FOLLOWING INPUTS FOR ITS STRUCTURAL PIPE BURIAL CALCULATIONS:
   1). ASTM D2321 DUMPED CLASS I EMBEDMENT MATERIAL;
   2). SOIL UNIT WEIGHT OF 120 LBS/CU.FT.;
   3). WATER TABLE BELOW THE PIPE INVERT;
   4). 200 PSF EQUIPMENT DEAD LOAD (NO DYNAMIC LOADING CONSIDERED)
   5). MINIMUM SOIL FRICTION ANGLE = 42 DEGREE.
   6). NO VEHICULAR LIVE LOAD.

REV	CHK	BY	DESCRIPTION	M/D/Y
4	DP	LL	DIMS CHANGED	07/09/2021
3	DP	LL	UPDATED ITEM 7,9 & 10	05/20/2021

DRAWN BY: LL — 2/9/2021
CHECKED BY: DP — 2/9/2021
UNITS: INCHES

INFRAPIPE SOLUTIONS LTD.

TITLE: 132 RSC250 TANKS LAYOUT

DWG # : 2511

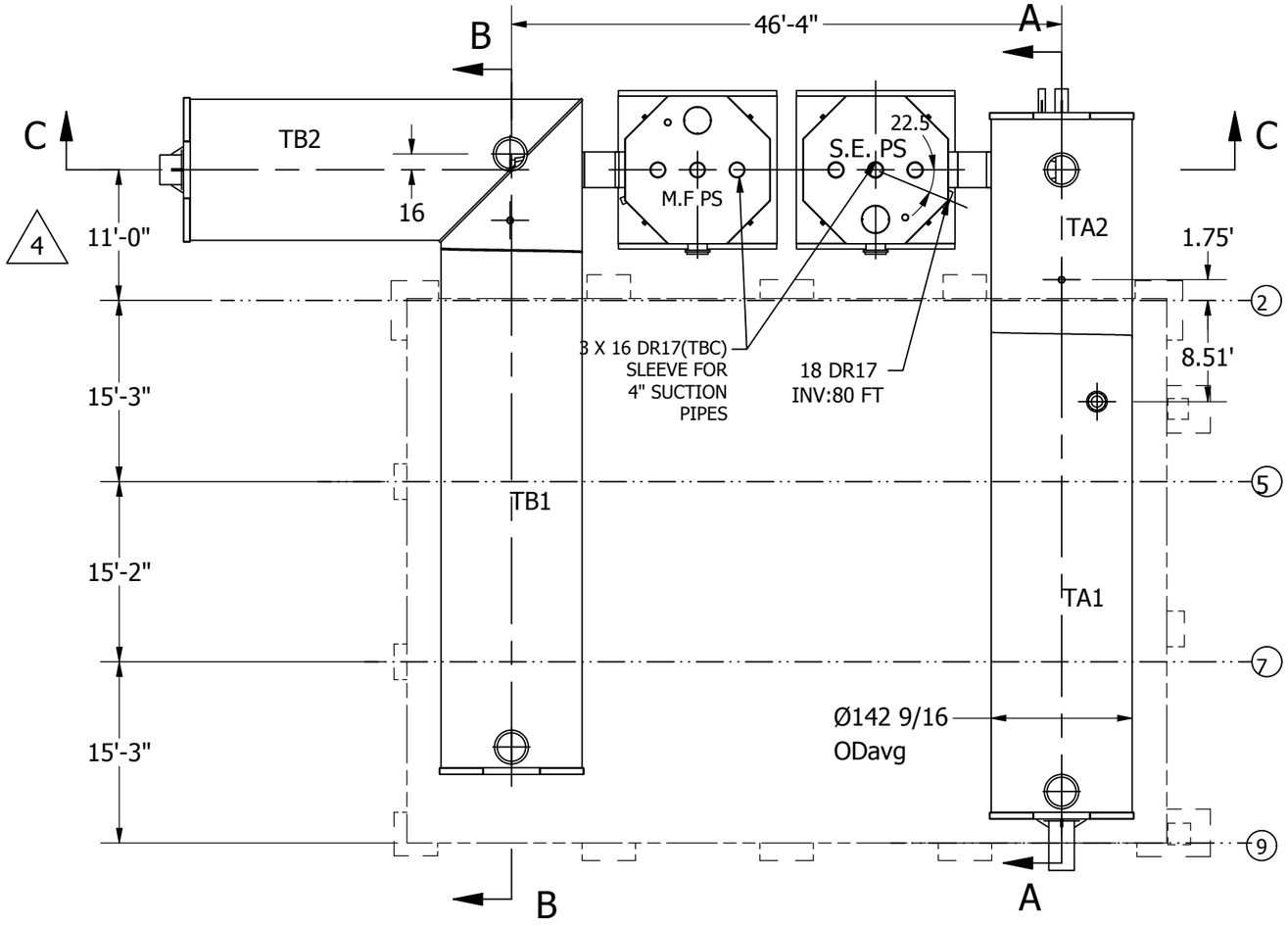
REV: 4

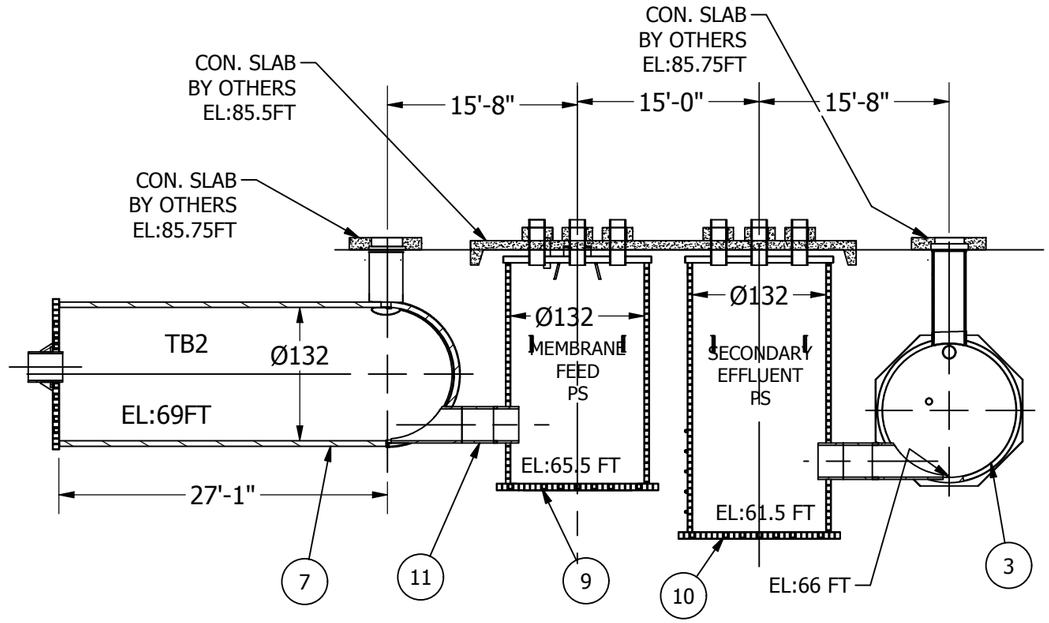
SHT: 1 OF 3

SIZE: B | L2

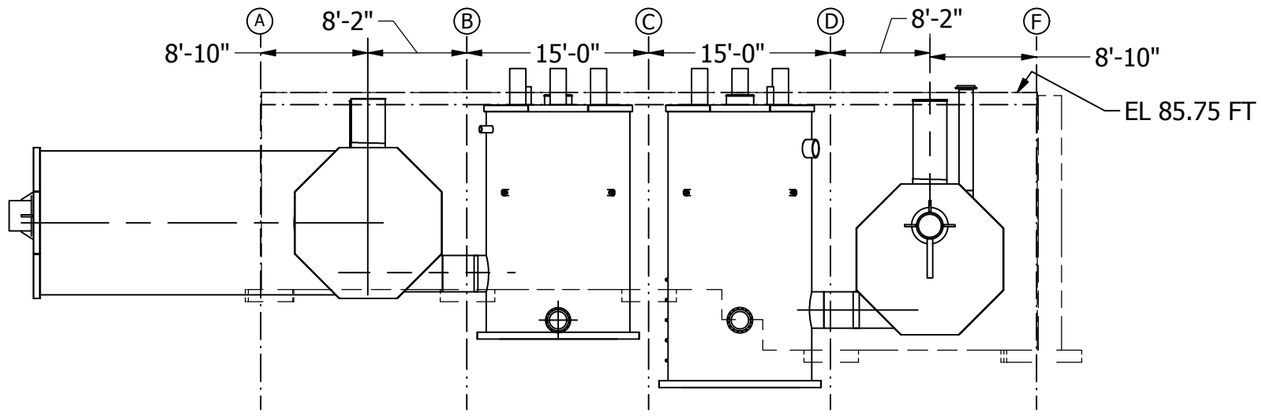
PROJECT:

OC # : OC3977





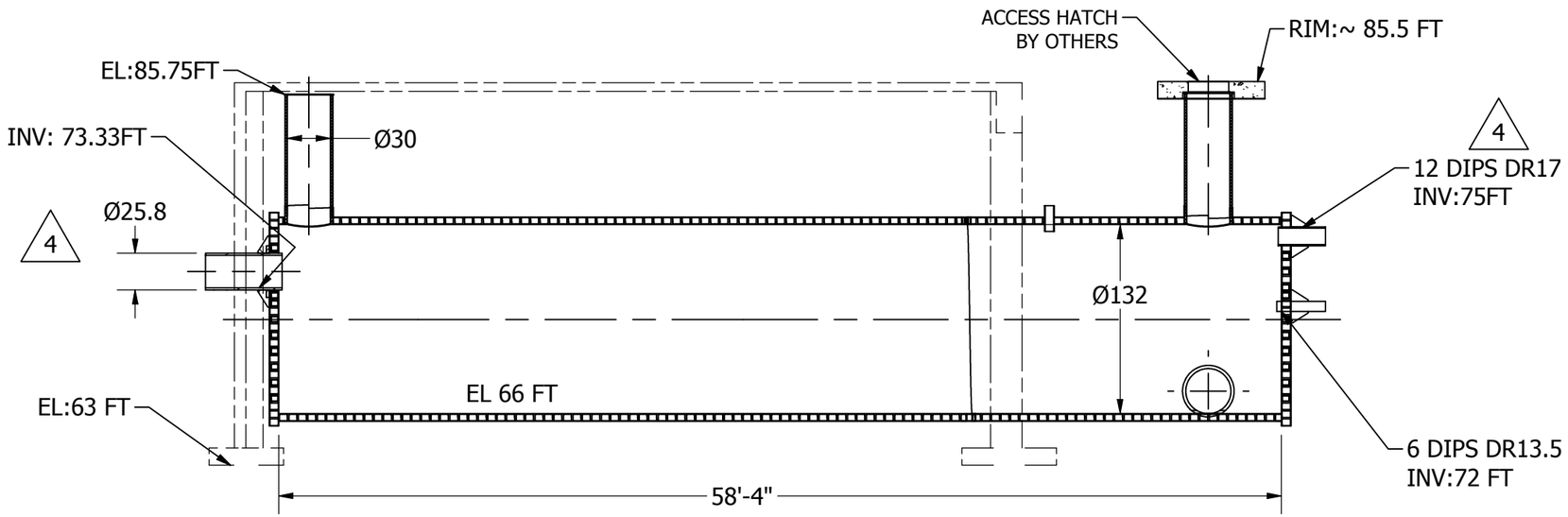
SECTION C-C



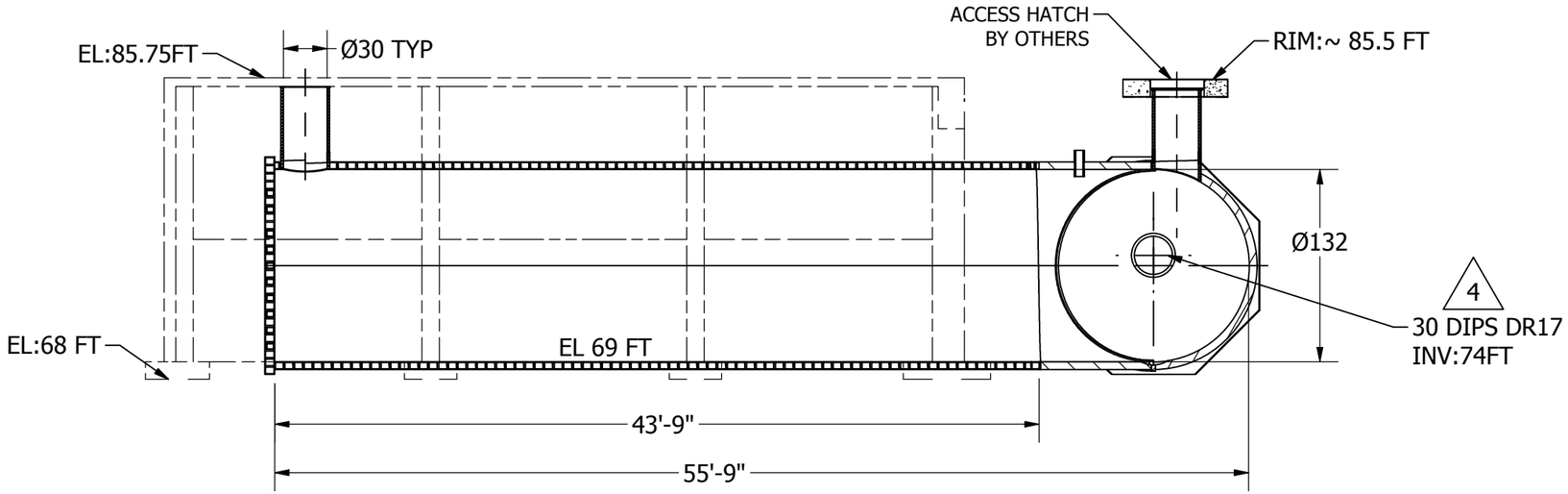
Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

REV	CHK	BY	DESCRIPTION	
4	DP	LL	DIMS CHANGED	07/09/2021

DRAWN BY: LL	2/9/2021	TITLE: 132 RSC250 TANKS LAYOUT	
CHECKED BY: DP	2/9/2021		
Infra Pipe Solutions Ltd.	UNITS: INCHES		
INFRAPIPE SOLUTIONS LTD.		DWG # : 2511	REV: 4
			SHT: 2 OF 3
SIZE: B	L2	PROJECT: HARSB	OC # : OC3977



SECTION A-A



SECTION B-B

Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

REV	CHK	BY	DESCRIPTION	M/D/Y
4	DP	LL	DIMS CHANGED	07/09/2021
3	DP	LL	UPDATED ITEM 7,9 & 10	05/20/2021

DRAWN BY: LL 2/9/2021
CHECKED BY: DP 2/9/2021
UNITS: INCHES

Infra Pipe Solutions Ltd.

INFRAPIPE SOLUTIONS LTD.

TITLE: 132 RSC250 TANKS LAYOUT

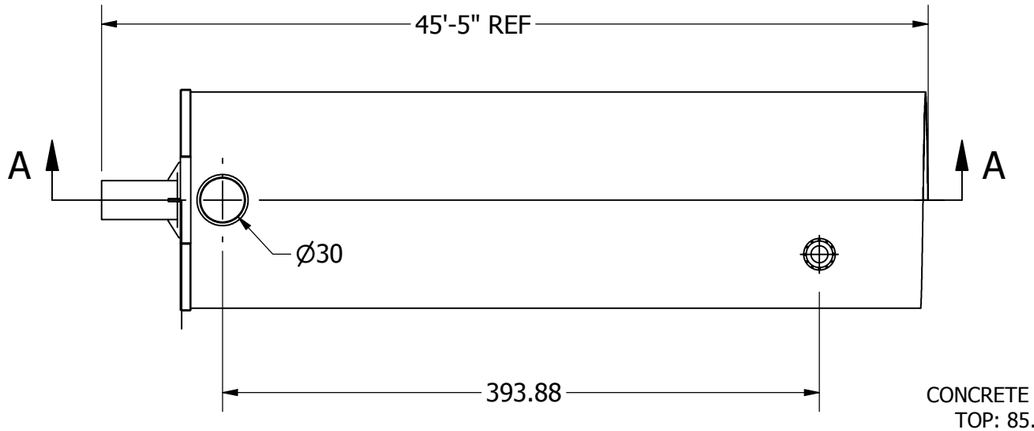
DWG # : 2511 REV: 4 SHT: 3 OF 3

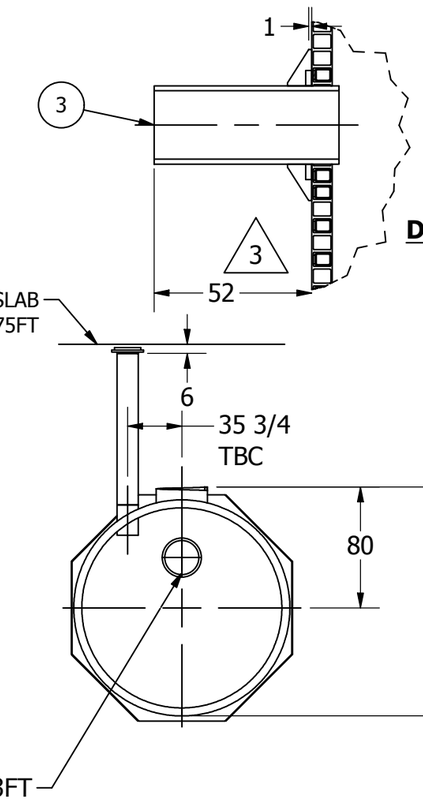
SIZE: B L2 PROJECT: HARSB OC # : OC3977

FOR APPROVAL

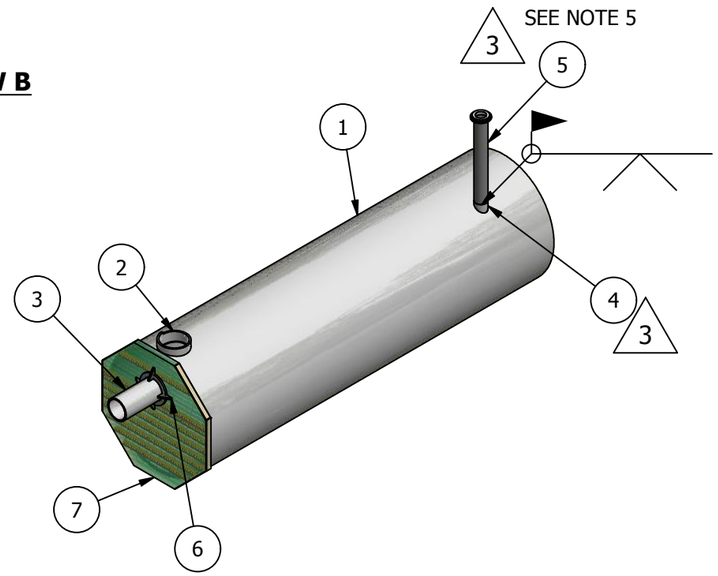
PARTS LIST			
ITEM	DESCRIPTION	DWG NO	QTY
1	132/3350 R250 STR WL X 40.0'/12.19M		1
2	30/760 R160 WEHOLITE RISER		1
3	24" DIPS DR17 X 61" LG HDPE PIPE		1
4	14" IPS DR17 X 20" LG HDPE PIPE		1
5	14 IPS DR17 PIPE WITH BUR & STUB END ASSEMBLY	2151-1C	1
6	GUSSET PLATE PE 2 X 8 X 12		4
7	P96W END PANEL WITH REINFORCED HSS ASSEMBLY	2511-1B	1

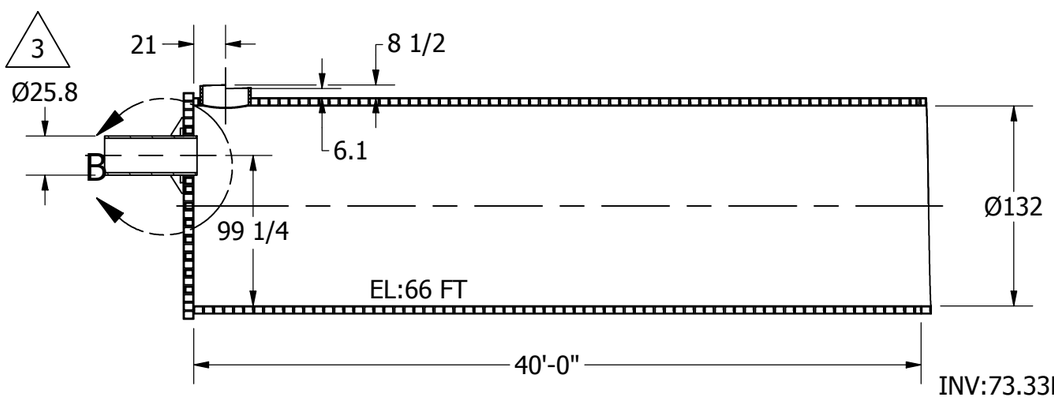
TOTAL WEIGHT: APPROX 16,500 LBS





DETAIL VIEW B





SECTION A-A

Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

NOTES:

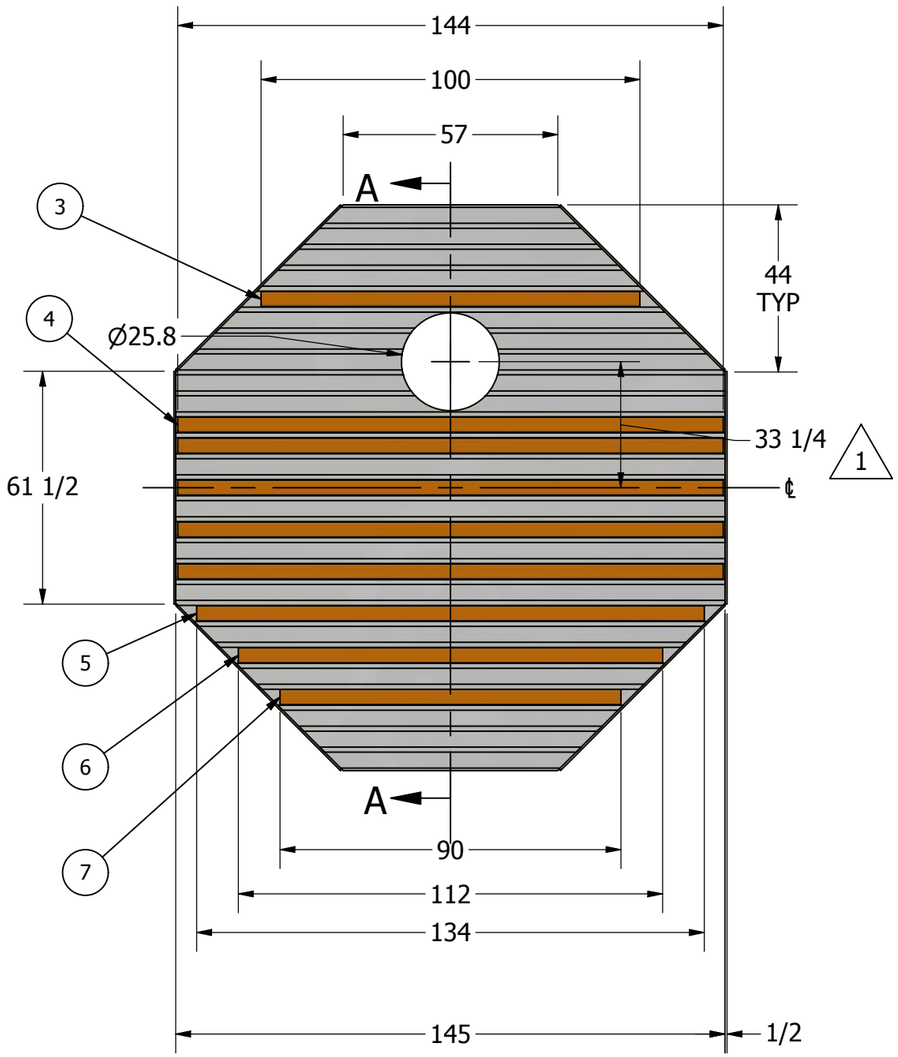
1. ALL DIMENSIONS APPLY @ 23°C ±2°, ACTUAL LENGTHS WILL VARY BASED ON AMBIENT TEMPERATURE.
2. PROVIDE A PC90 ON BOTH ENDS AT THE SAME CLOCK POSITION. PROFILE CUT AS PER STD-121.
3. ALL WELDS ARE MADE USING MANUAL EXTRUSION WELDING,
4. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
5. SHIP ITEM ITEM 5 LOOSE AND WELD TO ITEM 4 OF TANK ON SITE.

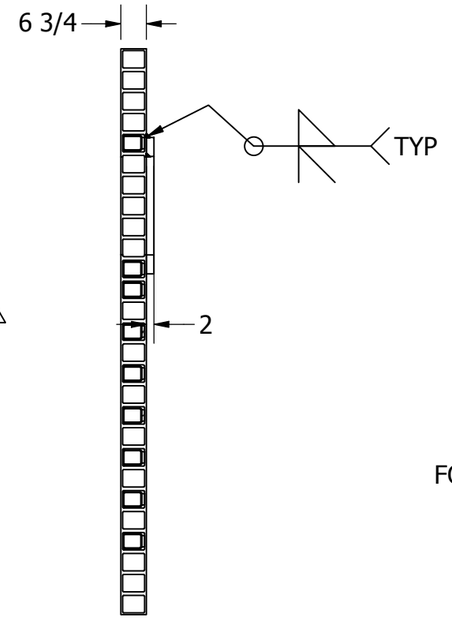
REV	CHK	BY	DESCRIPTION	M/D/Y
3	DP	LL	DIMS CHANGED	07/09/2021

DRAWN BY: LL	2/9/2021	TITLE: 132 RSC250 X 40 FT STORAGE TANK A1
CHECKED BY: DP	2/9/2021	
Infra Pipe Solutions Ltd.	UNITS: INCHES	
INFRAPIPE SOLUTIONS LTD.		DWG # : 2511-1 REV: 3 SHT: 1 OF 1
SIZE: B L2		PROJECT: OC # : OC3977

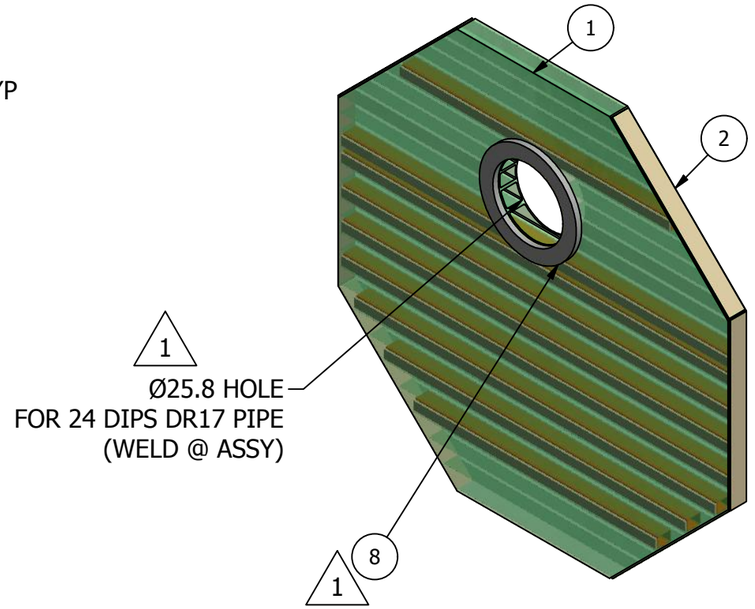
FOR APPROVAL

PARTS LIST		
ITEM	DESCRIPTION	QTY
1	P96W WEHOPANEL 26P X 145LG	1
2	PLATE PE 1/2 X 6 X 61 1/2	6
3	HSS 5X4X1/4 X 100 LG WITH SHIM 3/4 X 3 PL	1
4	HSS 5X4X1/4 X 144 LG WITH SHIM 3/4 X 3 PL	5
5	HSS 5X4X1/4 X 134 LG WITH SHIM 3/4 X 3 PL	1
6	HSS 5X4X1/4 X 112 LG WITH SHIM 3/4 X 3 PL	1
7	HSS 5X4X1/4 X 90 LG WITH SHIM 3/4 X 3 PL	1
8	REINFORCED PAD PE 2 X 26 ID/36 OD	1





SECTION A-A



NOTE:

SHIM PLATES WITH SAME LENGTH OF HSS AND PLACED AS SHOWN

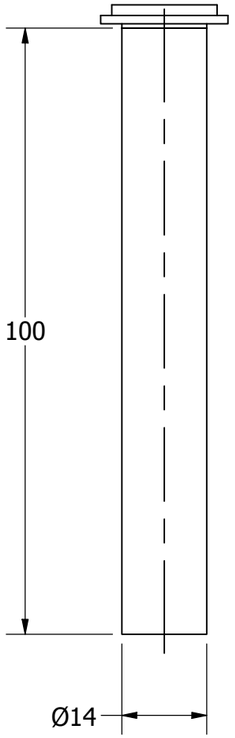
Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

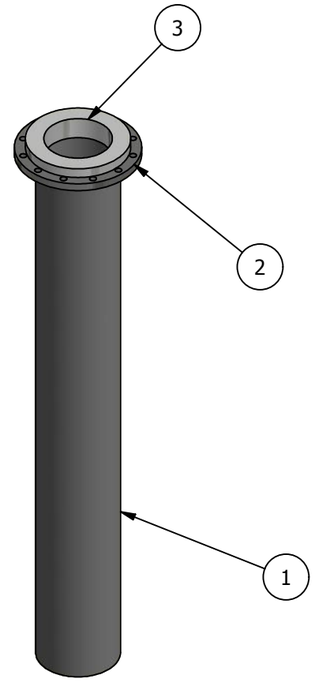
REV	CHK	BY	DESCRIPTION	M/D/Y
1	DP	LL	DIMS CHANGED	07/09/2021

DRAWN BY: LL	5/13/2021	TITLE: P96W END PANEL WITH REINFORCED HSS ASSEMBLY	
CHECKED BY: DP	5/13/2021		
Infra Pipe Solutions Ltd.	UNITS: INCHES		
DWG # : 2511-1B		REV: 1	SHT: 1 OF 1
SIZE: B	L2	PROJECT: HARSB	OC # : OC3977

PARTS LIST		
ITEM	DESCRIPTION	QTY
1	14" IPS DR17 X 100" LG HDPE PIPE F714 PE4710	1
2	14 IPS DR17 DI BACKUP RING EPOXY COXTED	1
3	14" IPS STD STUB END	1

FOR APPROVAL





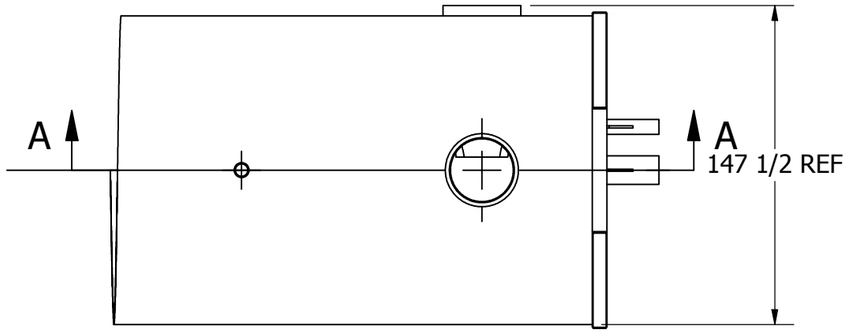
Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

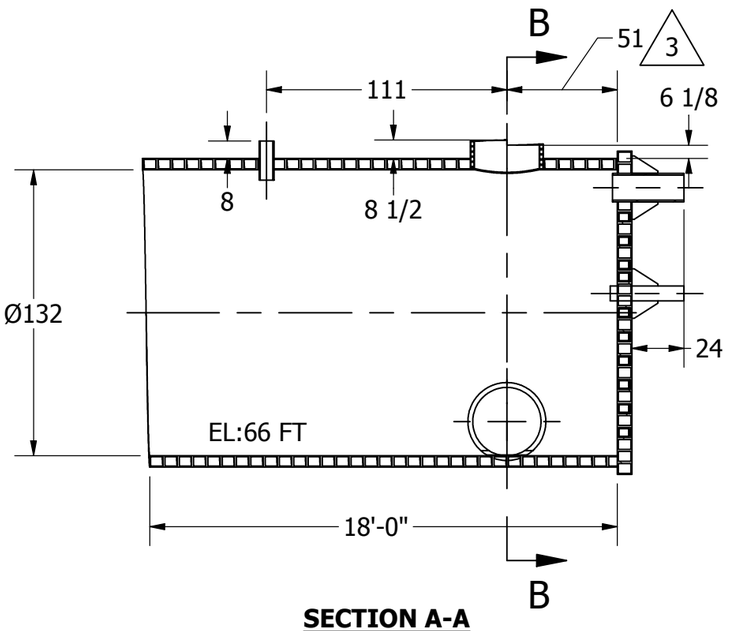
DRAWN BY: LL	7/9/2021	TITLE: 14 IPS DR17 PIPE WITH BUR & STUB END ASSEMBLY
CHECKED BY: DP	7/9/2021	
Infra Pipe Solutions Ltd.	UNITS: INCHES	
INFRAPIPE SOLUTIONS LTD.		DWG # : 2151-1C / REV: / SHT: 1 OF 1
SIZE: B L2		PROJECT: HARSB / OC # : OC3977

PARTS LIST			
ITEM	DESCRIPTION	DWG NO	QTY
1	132/3350 R250 PC90 WL X 18.0'/5.49M		1
2	30/760 R160 WEHOLITE RISER		1
3	P96W END PANEL WITH REINFORCED HSS ASSEMBLY	2511-2B	1
5	36" IPS DR17 X 70" LG HDPE PIPE PE4710		1
7	6" DIPS DR13.5 X 18" LG HDPE PIPE		1

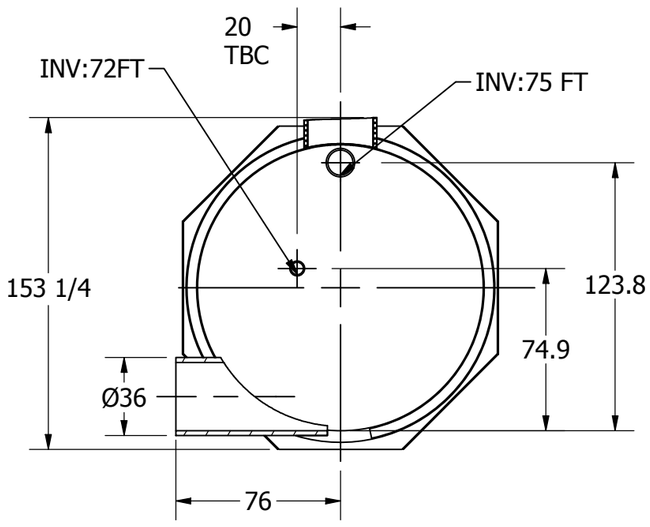
FOR APPROVAL

TOTAL WEIGHT: APPROX 9,500 LBS

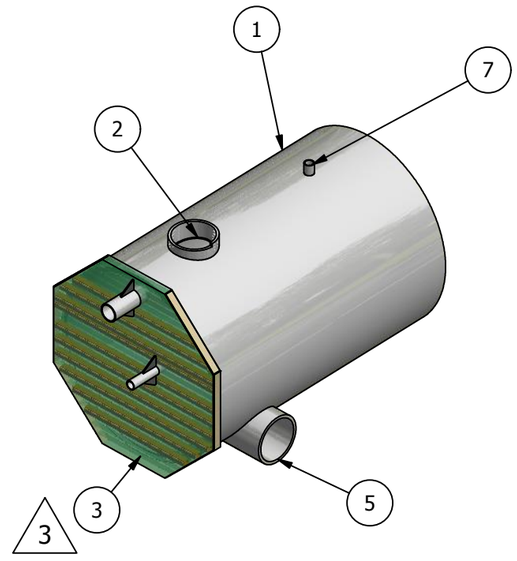




SECTION A-A



SECTION B-B



Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

NOTES:

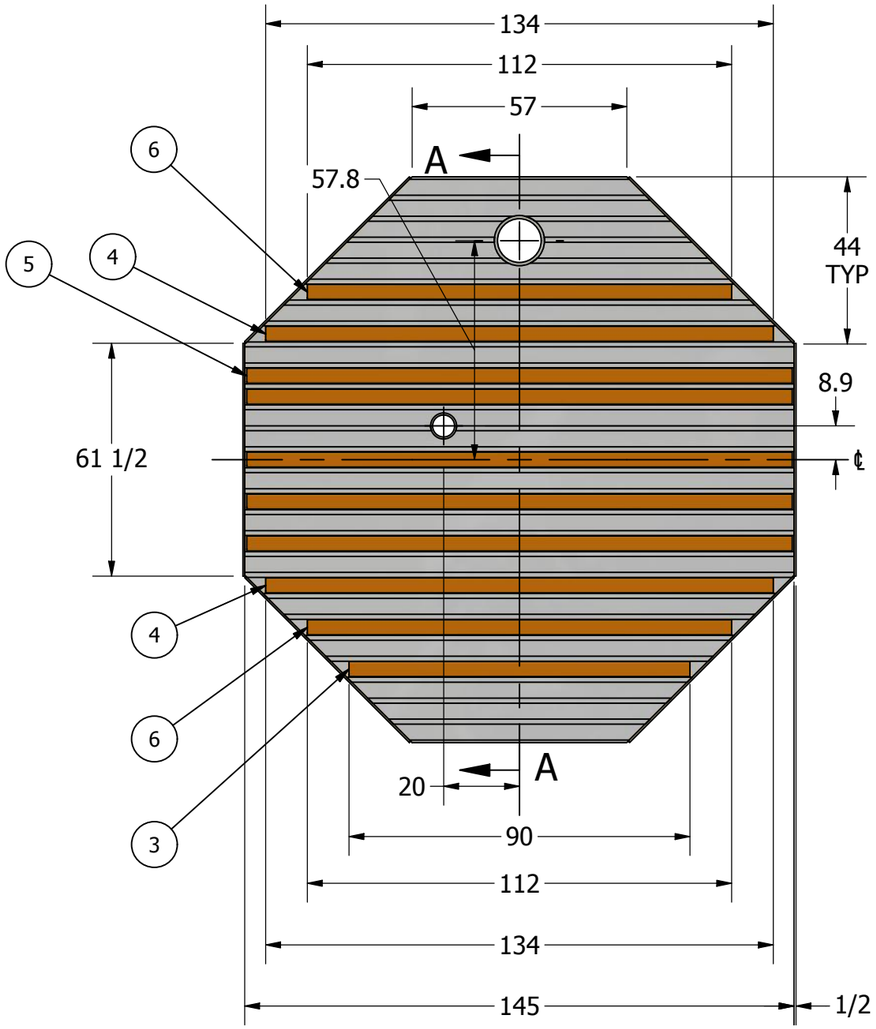
1. ALL DIMENSIONS APPLY @ 23°C ±2°, ACTUAL LENGTHS WILL VARY BASED ON AMBIENT TEMPERATURE.
2. PROVIDE A PC90 ON BOTH ENDS AT THE SAME CLOCK POSITION. PROFILE CUT AS PER STD-121.
3. ALL WELDS ARE MADE USING MANUAL EXTRUSION WELDING,
4. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

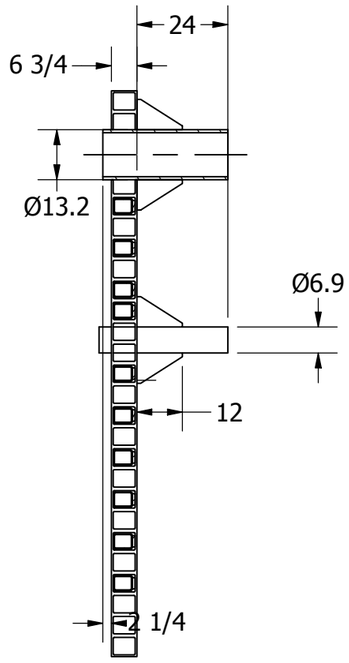
REV	CHK	BY	DESCRIPTION	M/D/Y
3	DP	LL	DIMS CHANGED	07/09/2021

DRAWN BY: LL	2/9/2021	TITLE: 132 RSC250 X 18 FT STORAGE TANK A2	
CHECKED BY: DP	2/9/2021		
Infra Pipe Solutions Ltd.	UNITS: INCHES		
INFRAPIPE SOLUTIONS LTD.		DWG # : 2511-2	REV: 3
			SHT: 1 OF 1
SIZE: B	L2	PROJECT: HARSB	OC # : OC3977

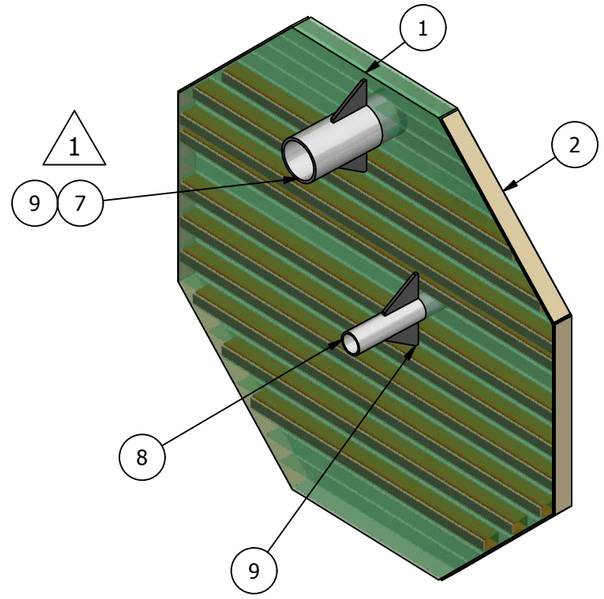
FOR APPROVAL

PARTS LIST		
ITEM	DESCRIPTION	QTY
1	P96W WEHOPANEL 26P X 145LG	1
2	PLATE PE 1/2 X 6 X 61 1/2	6
3	HSS 5X4X1/4 X 90 LG WITH SHIM 3/4 X 3 PL	1
4	HSS 5X4X1/4 X 134 LG WITH SHIM 3/4 X 3 PL	2
5	HSS 5X4X1/4 X 144 LG WITH SHIM 3/4 X 3 PL	5
6	HSS 5X4X1/4 X 112 LG WITH SHIM 3/4 X 3 PL	2
7	12" DIPS DR17 X 33" LG HDPE PIPE	1
8	6" DIPS DR13.5 X 34" LG HDPE PIPE	1
9	GUSSET PLATE PE 1 X 8 X 12	4





SECTION A-A



NOTE:

SHIM PLATES WITH SAME LENGTH OF HSS AND PLACED AS SHOWN

Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

REV	CHK	BY	DESCRIPTION	M/D/Y
1	DP	LL	ITEM 7 WAS IPS PIPE	07/09/2021

DRAWN BY: LL 5/13/2021
CHECKED BY: DP 5/13/2021
UNITS: INCHES

TITLE: P96W END PANEL WITH REINFORCED HSS ASSEMBLY

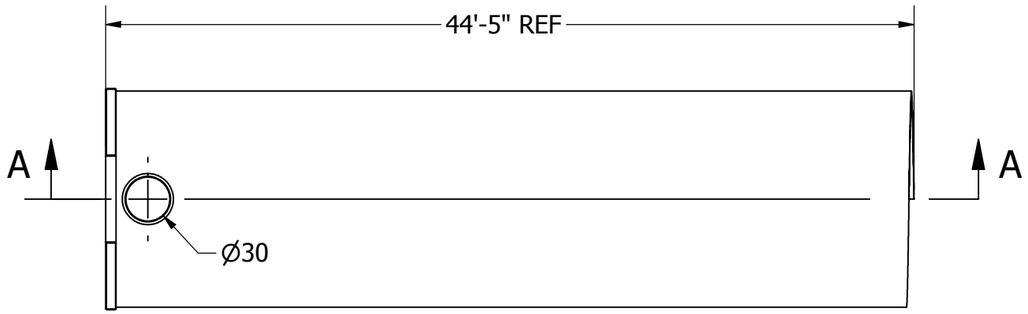
DWG # : 2511-2B
REV: 1
SHT: 1 OF 1

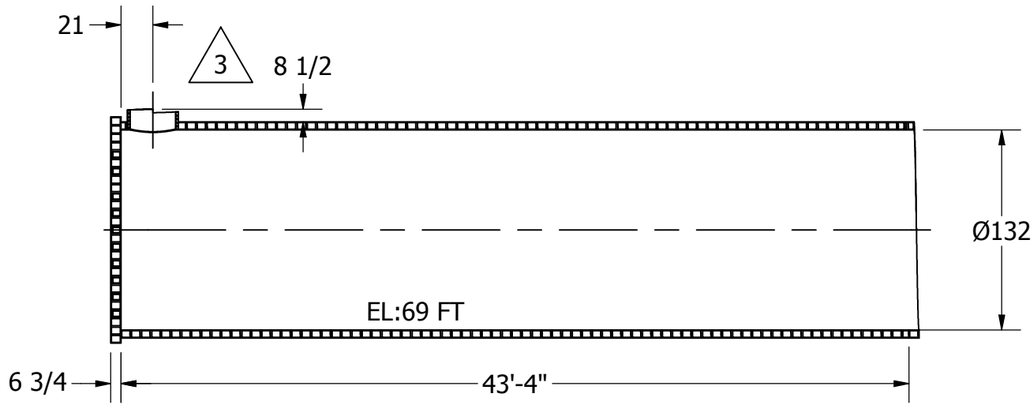
SIZE: B L2
PROJECT: HARSB
OC # : OC3977

FOR APPROVAL

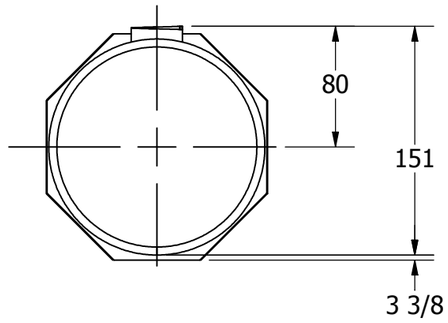
PARTS LIST			
ITEM	DESCRIPTION	DWG NO	QTY
1	132/3350 R250 STR WL X 43.3'/13.21M		1
2	30/760 R160 WEHOLITE RISER		1
3	P96W END PANEL WITH REINFORCED HSS ASSEMBLY	2511-3B	1

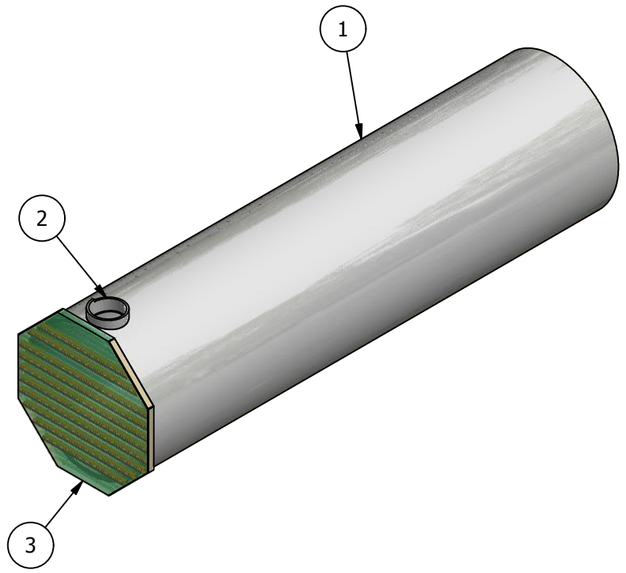
TOTAL WEIGHT: APPROX 18,500 LBS





SECTION A-A





Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

NOTES:

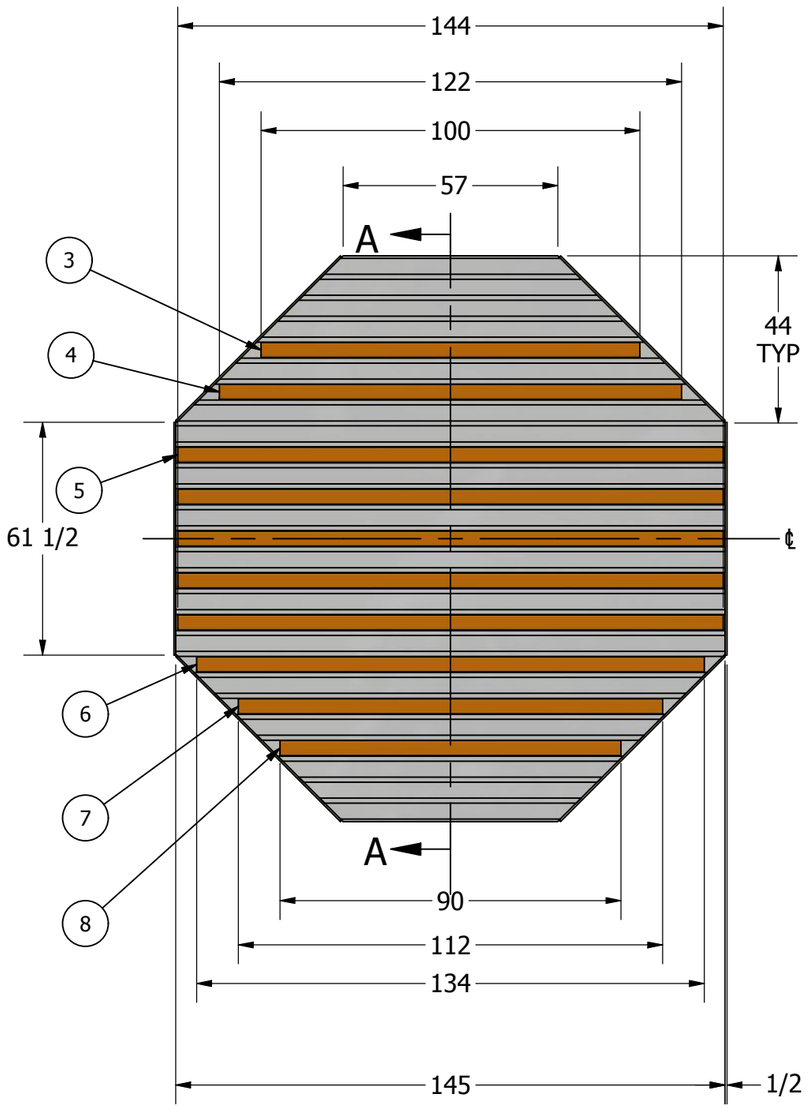
1. ALL DIMENSIONS APPLY @ 23°C ±2°, ACTUAL LENGTHS WILL VARY BASED ON AMBIENT TEMPERATURE.
2. PROVIDE A PC90 ON BOTH ENDS AT THE SAME CLOCK POSITION. PROFILE CUT AS PER STD-121.
3. ALL WELDS ARE MADE USING MANUAL EXTRUSION WELDING, 3
4. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

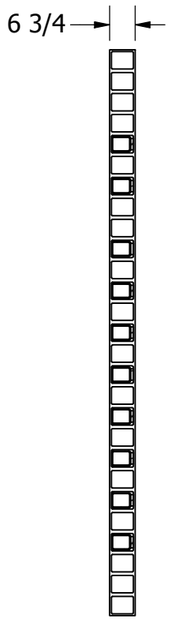
REV	CHK	BY	DESCRIPTION	M/D/Y
3	DP	LL	UPDATED NOTE	07/12/2021

DRAWN BY: LL	2/9/2021	TITLE: 132 RSC250 X 43.3 FT STORAGE TANK B1
CHECKED BY: DP	2/9/2021	
Infra Pipe Solutions Ltd.	UNITS: INCHES	
INFRAPIPE SOLUTIONS LTD.	DWG # : 2511-3	REV: 3 / SHT: 1 OF 1
SIZE: B / L2	PROJECT: HARSB	OC # : OC3977

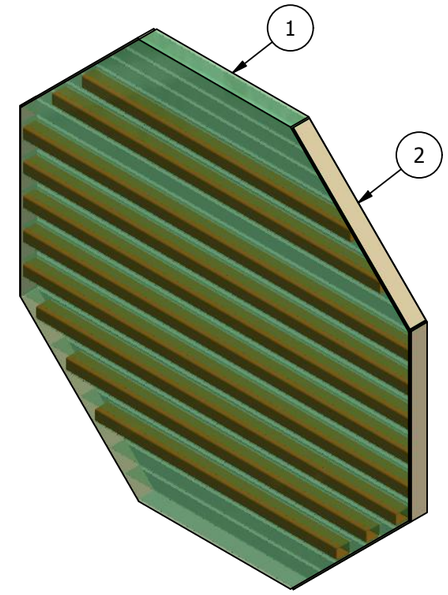
PARTS LIST		
ITEM	DESCRIPTION	QTY
1	P96W WEHOPANEL 26P X 145LG	1
2	PLATE PE 1/2 X 6 X 61 1/2	6
3	HSS 5X4X1/4 X 100 LG WITH SHIM 3/4 X 3 PL	1
4	HSS 5X4X1/4 X 122 LG WITH SHIM 3/4 X 3 PL	1
5	HSS 5X4X1/4 X 144 LG WITH SHIM 3/4 X 3 PL	5
6	HSS 5X4X1/4 X 134 LG WITH SHIM 3/4 X 3 PL	1
7	HSS 5X4X1/4 X 112 LG WITH SHIM 3/4 X 3 PL	1
8	HSS 5X4X1/4 X 90 LG WITH SHIM 3/4 X 3 PL	1

FOR APPROVAL





SECTION A-A



NOTE:

SHIM PLATES WITH SAME LENGTH OF HSS AND PLACED AS SHOWN

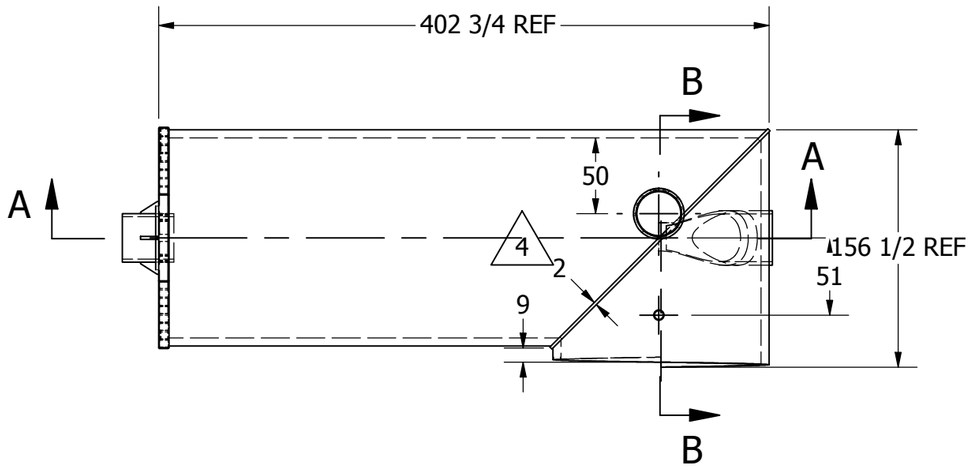
Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

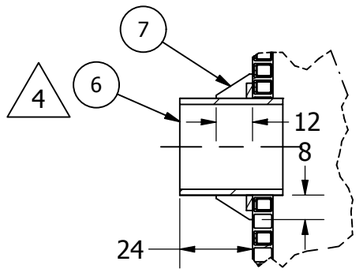
DRAWN BY: LL	5/13/2021	TITLE: P96W END PANEL WITH REINFORCED HSS ASSEMBLY
CHECKED BY: DP	5/13/2021	
Infra Pipe Solutions Ltd.	UNITS: INCHES	
INFRAPIPE SOLUTIONS LTD.	DWG # : 2511-3B	REV: SHT: 1 OF 1
SIZE: B L2	PROJECT: HARSB	OC # : OC3977

FOR APPROVAL

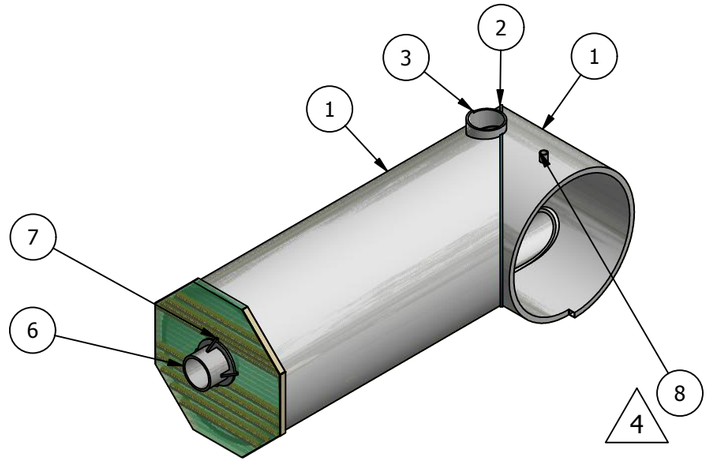
TOTAL WEIGHT: APPROX 16,500 LBS

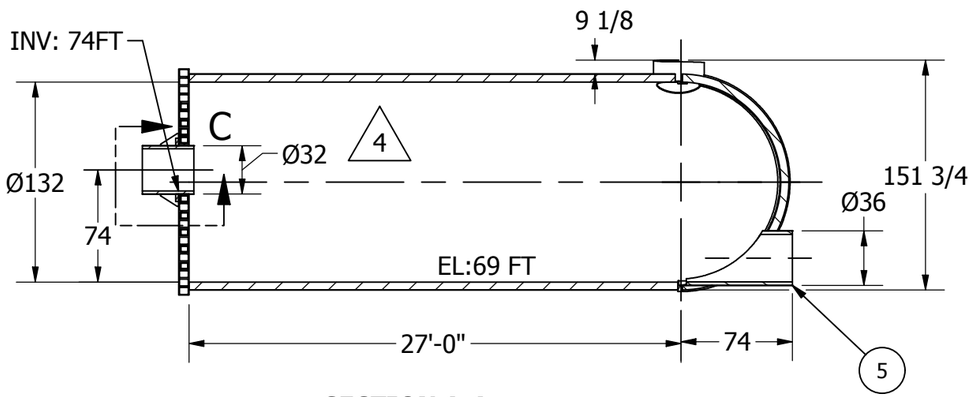
PARTS LIST			
ITEM	DESCRIPTION	DWG NO	QTY
1	132/3350 RSC250 WEHOLITE		47 FT
2	MITER PLATE PE 130 ID/ 203.6 OD X 2 THK		1
3	30/760 R160 WEHOLITE RISER X 2.3 FT		1
4	P96W END PANEL WITH REINFORCED HSS ASSEMBLY	2511-4B	1
5	36" IPS DR17 X 70" LG HDPE PIPE PE4710		1
6	30" DIPS DR17 X 34" LG HDPE PIPE F714 PE4710		1
7	GUSSET PLATE PE 2 X 8 X 12		4
8	6" DIPS DR13.5 X 18" LG HDPE PIPE		1



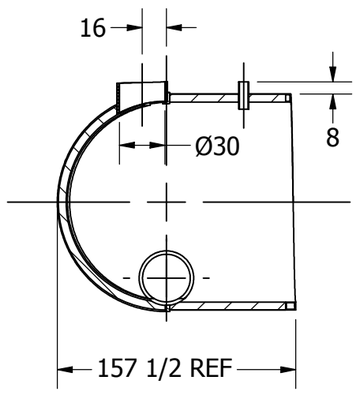


DETAIL VIEW C





SECTION A-A



SECTION B-B

Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

NOTES:

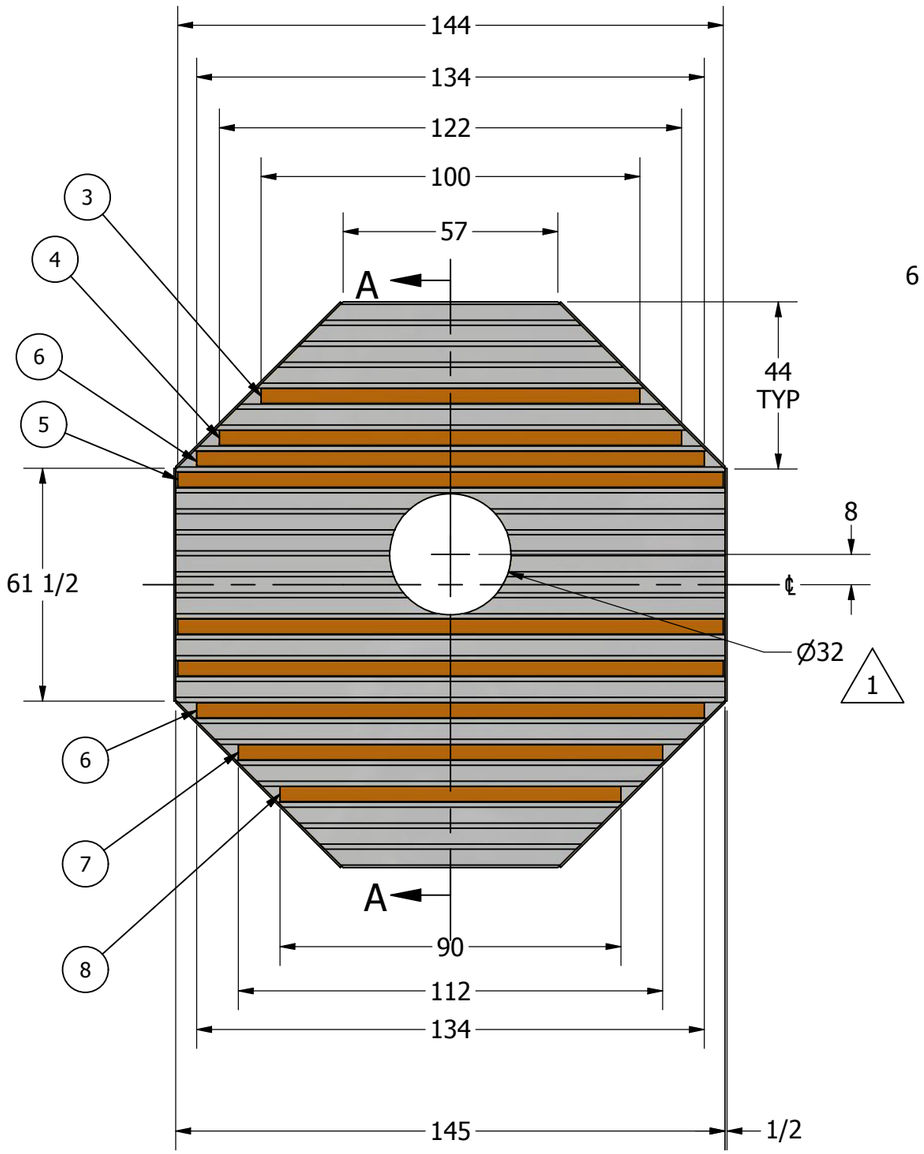
1. ALL DIMENSIONS APPLY @ 23°C ±2°, ACTUAL LENGTHS WILL VARY BASED ON AMBIENT TEMPERATURE.
2. PROVIDE A PC90 ON BOTH ENDS AT THE SAME CLOCK POSITION. PROFILE CUT AS PER STD-121.
3. ALL WELDS ARE MADE USING MANUAL EXTRUSION WELDING,
4. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

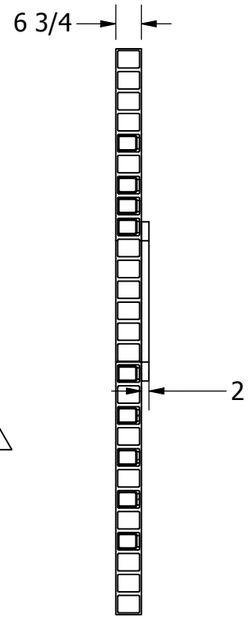
REV	CHK	BY	DESCRIPTION	M/D/Y
4	DP	LL	DIMS CHANGED	7/09/2021

DRAWN BY: LL	2/9/2021	TITLE: 132 RSC250 TANK B2 WITH 90D ELBOW	
CHECKED BY: DP	2/9/2021		
Infra Pipe Solutions Ltd.	UNITS: INCHES		
INFRAPIPE SOLUTIONS LTD.		DWG # : 2511-4	REV: 4
			SHT: 1 OF 1
SIZE: B	L2	PROJECT:	OC # : OC3977

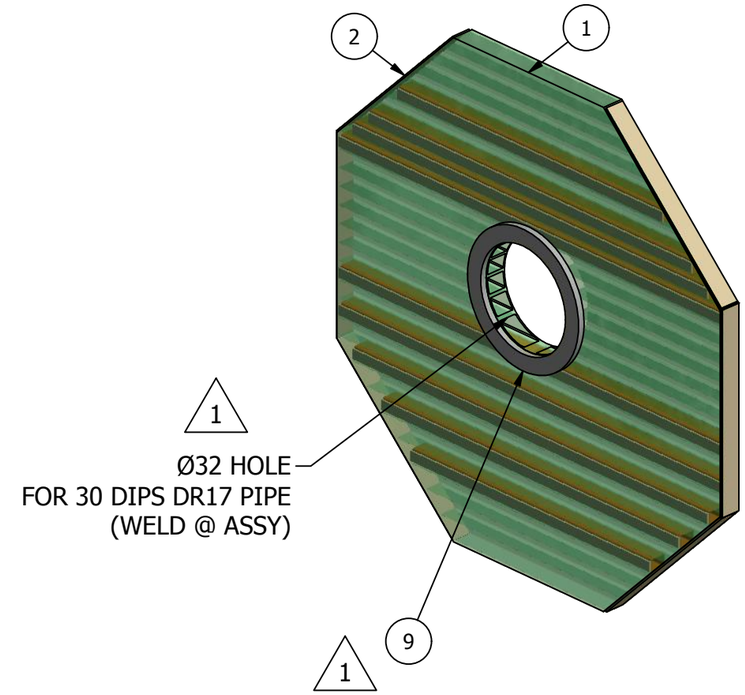
PARTS LIST		
ITEM	DESCRIPTION	QTY
1	P96W WEHOPANEL 26P X 145LG	1
2	PLATE PE 1/2 X 6 X 61 1/2	6
3	HSS 5X4X1/4 X 100 LG WITH SHIM 3/4 X 3 PL	1
4	HSS 5X4X1/4 X 122 LG WITH SHIM 3/4 X 3 PL	1
5	HSS 5X4X1/4 X 144 LG WITH SHIM 3/4 X 3 PL	3
6	HSS 5X4X1/4 X 134 LG WITH SHIM 3/4 X 3 PL	2
7	HSS 5X4X1/4 X 112 LG WITH SHIM 3/4 X 3 PL	1
8	HSS 5X4X1/4 X 90 LG WITH SHIM 3/4 X 3 PL	1
9	REINFORCED PAD PE 2 X 32 ID/42 OD	1

FOR APPROVAL





SECTION A-A



NOTE:

SHIM PLATES WITH SAME LENGTH OF HSS AND PLACED AS SHOWN

Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

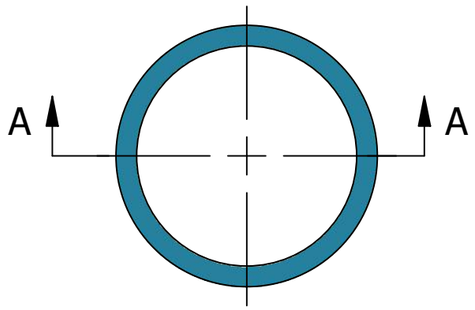
REV	CHK	BY	DESCRIPTION	M/D/Y
1	DP	LL	DIMS CHANGED	07/09/2021

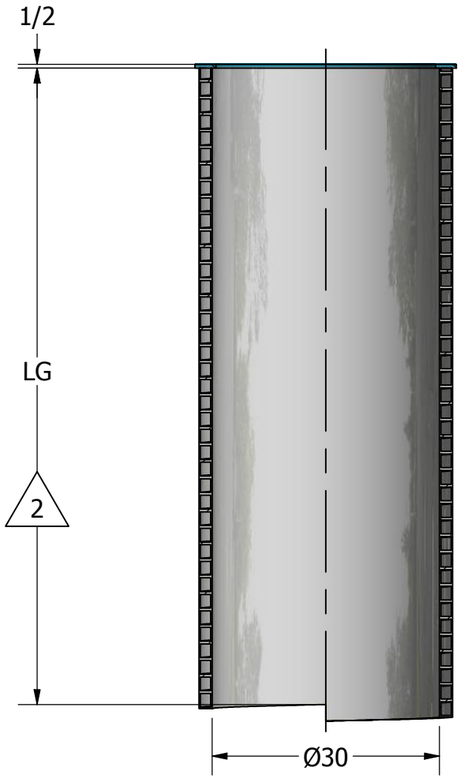
DRAWN BY: LL	5/13/2021	TITLE: P96W END PANEL WITH REINFORCED HSS ASSEMBLY
CHECKED BY: DP	5/13/2021	
UNITS: INCHES		
DWG # : 2511-4B		REV: 1
		SHT: 1 OF 1
SIZE: B	L2	PROJECT: HARSB
		OC # : OC3977

FOR APPROVAL

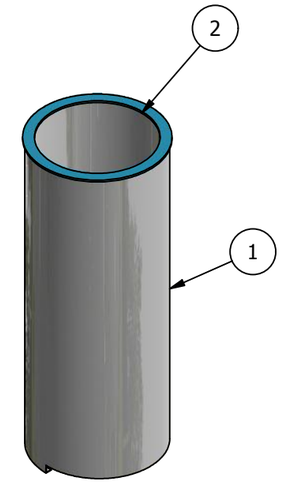
30 RSC160 RISER EXTENSION TABLE				
DWG NO	DESCRIPTION	USED FOR	LG (IN)	WT LB
2511-1A	FOR TANK A1	TANK A1	84	260
2511-2A	FOR TANK TA2	TANK A2	84	260
2511-3A	FOR TANK TB1	TANK TB1	47	160
2511-4A	FOR TANK TB2	TANK TB2	47	165

PARTS LIST		
ITEM	DESCRIPTION	QTY
1	30/760 R160 PC90 WL LG SEE TABLE	1
2	TOP RING PE 35 OD/29 ID X 1/2 THK	1





SECTION A-A



Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

REV	CHK	BY	DESCRIPTION	M/D/Y
2	DP	LL	DIMS CHANGED	07/09/2021
1	DP	LL	DIMS CHANGED	03/23/2021

DRAWN BY: LL 2/9/2021
CHECKED BY: DP 2/9/2021
UNITS: INCHES
SIZE: B L2

INFRAPIPE SOLUTIONS LTD.

TITLE: 30 RSC160 RISER EXTENSION FOR TANKS

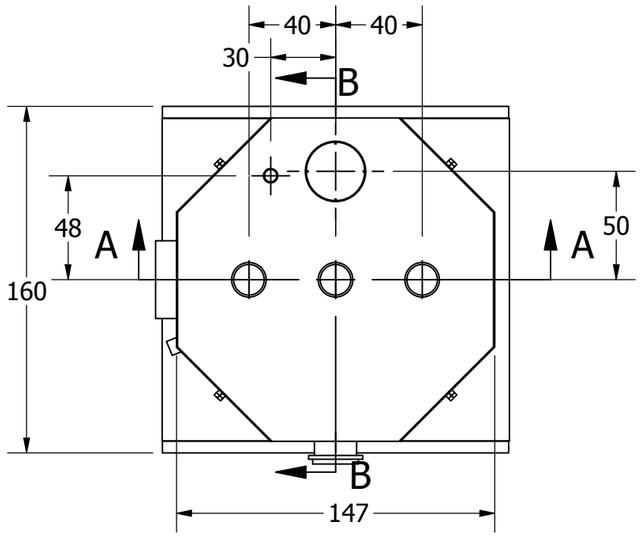
DWG # : 2511-1A

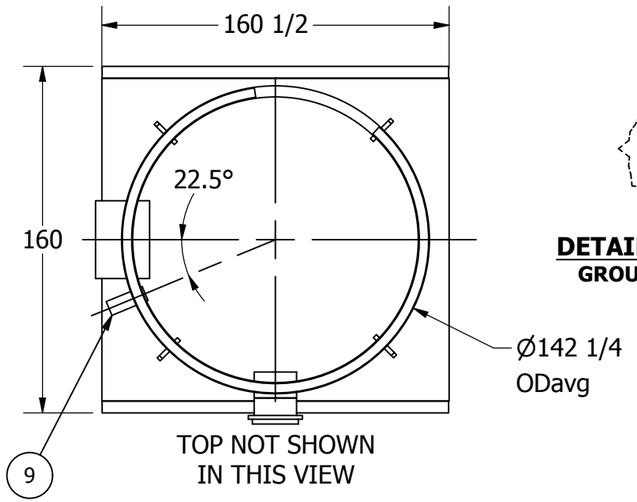
REV: 2
SHT: 1 OF 1

PROJECT: HARSB
OC # : OC3977

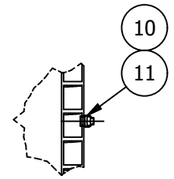
Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

FOR APPROVAL





TOP NOT SHOWN
IN THIS VIEW

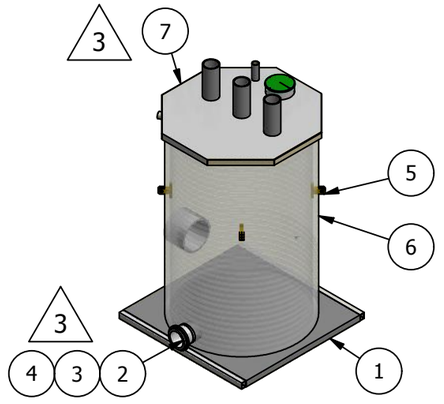


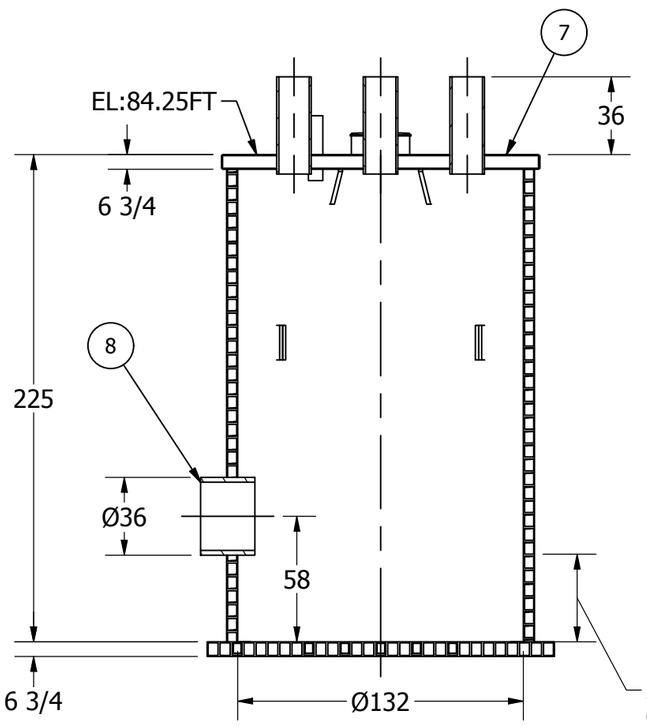
DETAIL VIEW C
GROUT PORTS

PARTS LIST			
ITEM	DESCRIPTION	DWG NO	QTY
1	132 R250X 20 FT DP PS P96W BASE		1
2	18" DIPS DR17 FLANGE ADAPTER		1
3	18" DIPS DR17 X 12" LG HDPE PIPE PE4710		1
4	18" DIPS BACK-UP RING IPP OR EQUIV. CL150 BOLT CIRCLE, MATES W/ ANSI B16.5, B16.1, AWWA C207		1
5	LIFTING LUG MADE FROM PE PLATE		4
6	132/3050 RSC250 X 18 FT VERT WELL BODY		1
7	REINFORCED P96W TOP COVER ASSEMBLY	2511-6A	1
8	36" IPS DR17 X 25" LG HDPE PIPE F714 PE4710		1
9	6" DIPS DR13.5 X 18" LG HDPE PIPE		1
10	2" IPS CLEAN OUT PLUG RAHN # 3153-2-2		2
11	2" IPS CLEAN OUT ADAPTER RAHN # 3153-1-2		2

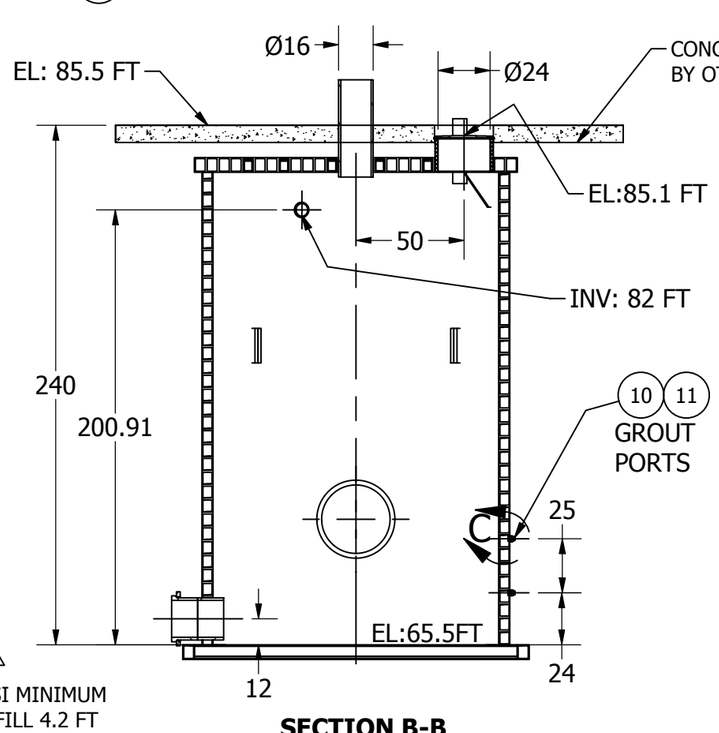
NOTES:

1. ALL DIMENSIONS APPLY @ 23°C ±2°, ACTUAL LENGTHS WILL VARY BASED ON AMBIENT TEMPERATURE.
2. PROVIDE STRAIGHT CUT ON BOTH ENDS.
3. ALL WELDS ARE MADE USING MANUAL EXTRUSION WELDING,
4. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
5. INFRA PIPE SOLUTIONS USED THE FOLLOWING INPUTS FOR ITS STRUCTURAL ASTM F1759 CALCULATIONS AND FEA ANALYSIS:
   1). ASTM D2321 DUMPED CLASS I EMBEDMENT MATERIAL;
   2). SOIL UNIT WEIGHT OF 120 LBS/CU.FT.;
   3). WATER TABLE BELOW THE STRUCTURE;
   4). MINIMUM SOIL FRICTION ANGLE = 42 DEGREE.
   5). NO VEHICULAR LIVE LOAD.





SECTION A-A



SECTION B-B

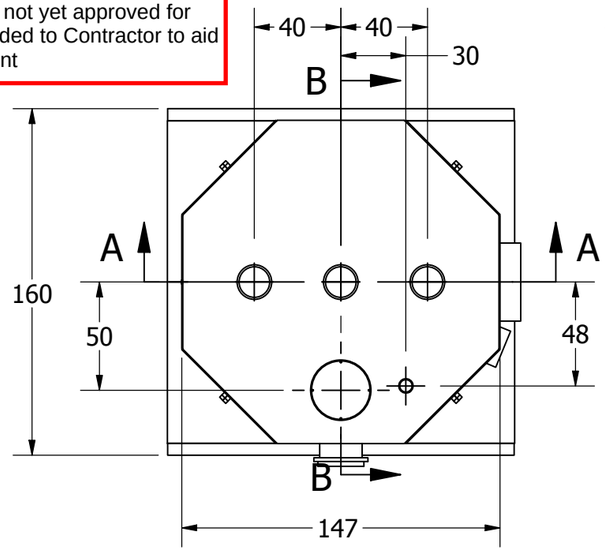
3 2,000 PSI MINIMUM GROUT FILL 4.2 FT FROM BOTTOM TO BE SUPPLIED AND FIELD INSTALLED BY OTHERS

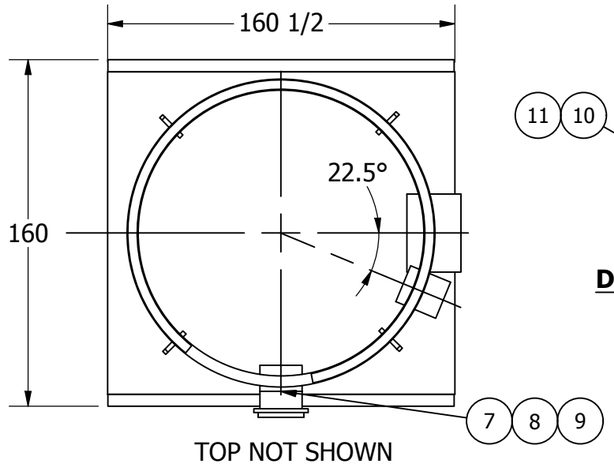
REV	CHK	BY	DESCRIPTION	M/D/Y
3	DP	LL	UPDATED TOP AND ITEM	07/09/2021

DRAWN BY: LL	3/23/2021	TITLE: 132 R250 X 18.8 FT MEMERANE FEED PS HDPE WET WELL
CHECKED BY: DP	3/23/2021	
Infra Pipe Solutions Ltd.	UNITS: INCHES	
INFRAPIPE SOLUTIONS LTD.	DWG # : 2511-5	REV: 3 / SHT: 1 OF 1
SIZE: B L2	PROJECT: HARSB	PROJECT # : OC3977

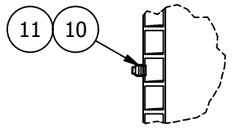
Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication - Provided to Contractor to aid in Bid Development

FOR APPROVAL





TOP NOT SHOWN IN THIS VIEW

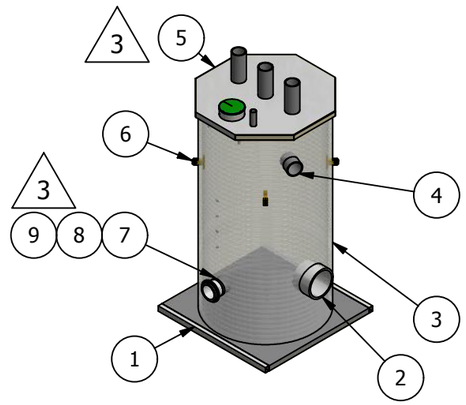


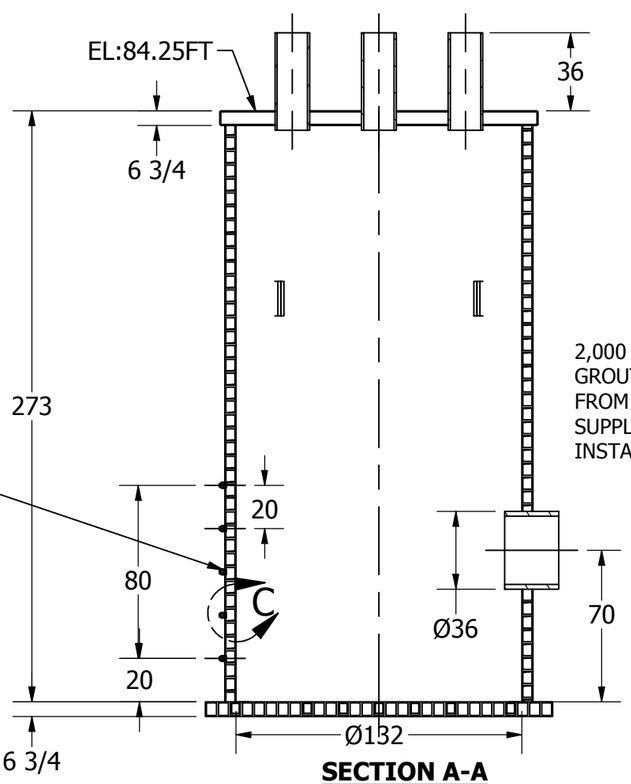
DETAIL VIEW C
GROUT PORTS

PARTS LIST			
ITEM	DESCRIPTION	SUBJECT	QTY
1	132 R250X 20 FT DP PS P96W BASE		1
2	36" IPS DR17 X 25" LG HDPE PIPE F714 PE4710		1
3	132/3050 RSC250 X 22 FT VERT WELL BODY		1
4	18" IPS DR17 X 20" LG HDPE PIPE F714 PE4710		1
5	REINFORCED P96W TOP COVER ASSEMBLY	2511-6A	1
6	LIFTING LUG MADE PE PLATE		4
7	18" DIPS DR17 X 12" LG HDPE PIPE PE4710		1
8	18" DIPS DR17 FLANGE ADAPTER		1
9	18" DIPS BACK-UP RING IPP OR EQUIV. CL150 BOLT CIRCLE, MATES W/ ANSI B16.5, B16.1, AWWA C207		1
10	2" IPS CLEAN OUT ADAPTER RAHN # 3153-1-2		5
11	2" IPS CLEAN OUT PLUG RAHN # 3153-2-2		5

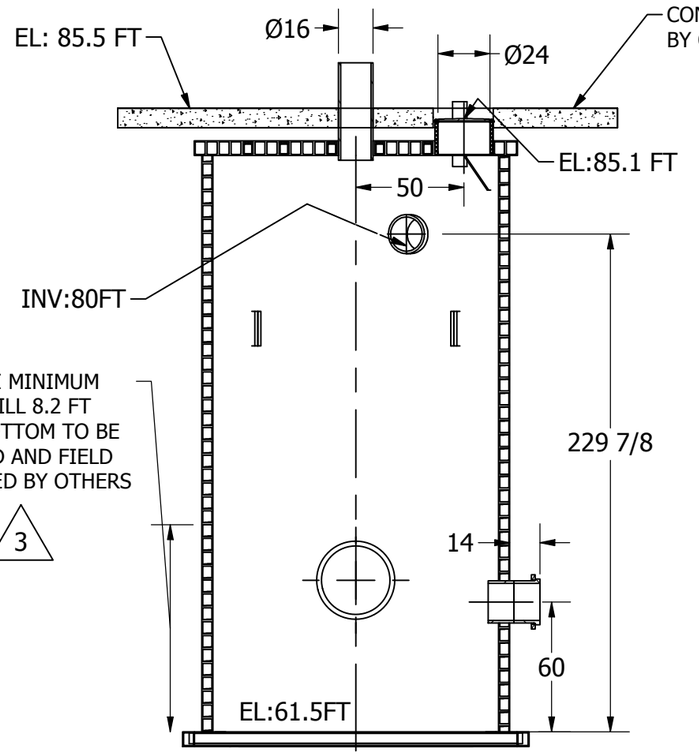
NOTES:

1. ALL DIMENSIONS APPLY @ 23°C ±2°, ACTUAL LENGTHS WILL VARY BASED ON AMBIENT TEMPERATURE.
2. PROVIDE STRAIGHT CUT ON BOTH ENDS.
3. ALL WELDS ARE MADE USING MANUAL EXTRUSION WELDING,
4. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
5. INFRA PIPE SOLUTIONS USED THE FOLLOWING INPUTS FOR ITS STRUCTURAL ASTM F1759 CALCULATIONS AND FEA ANALYSIS:
   1). ASTM D2321 DUMPED CLASS I EMBEDMENT MATERIAL;
   2). SOIL UNIT WEIGHT OF 120 LBS/CU.FT.;
   3). WATER TABLE BELOW THE STRUCTURE;
   4). MINIMUM SOIL FRICTION ANGLE = 42 DEGREE.
   5). NO VEHICULAR LIVE LOAD.





SECTION A-A

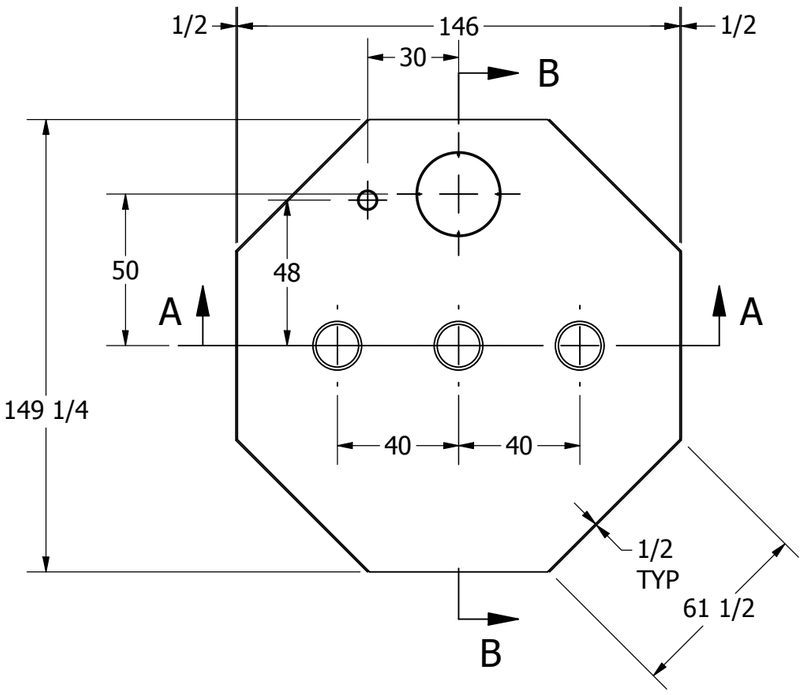


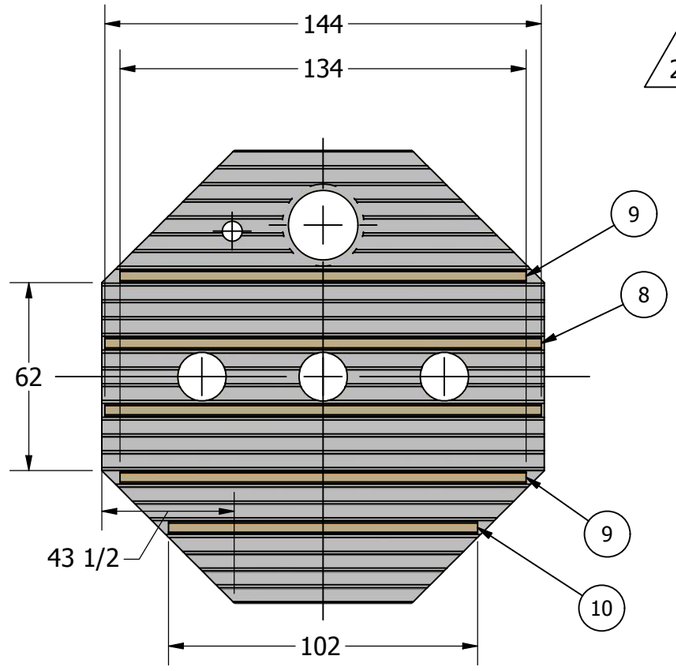
SECTION B-B

REV	CHK	BY	DESCRIPTION	M/D/Y
3	DP	LL	DIMS CHANGED	07/09/2021

DRAWN BY: LL	3/23/2021	TITLE: 132RSC250 X 22.8 FT SECONDARY EFFLUENT PS HDPE WET WELL
CHECKED BY: DP	3/23/2021	
Infra Pipe Solutions Ltd.	UNITS: INCHES	
INFRAPIPE SOLUTIONS LTD.	DWG # : 2511-6	REV: 3
		SHT: 1 OF 1
SIZE: B L2	PROJECT: HARSB	PROJECT # : OC3977

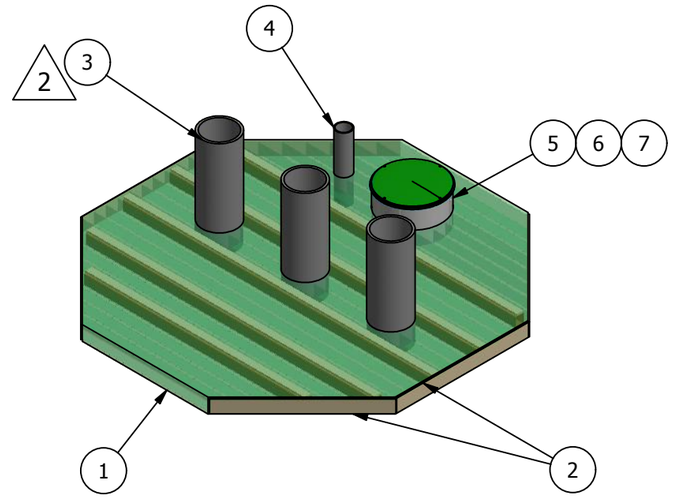
FOR APPROVAL

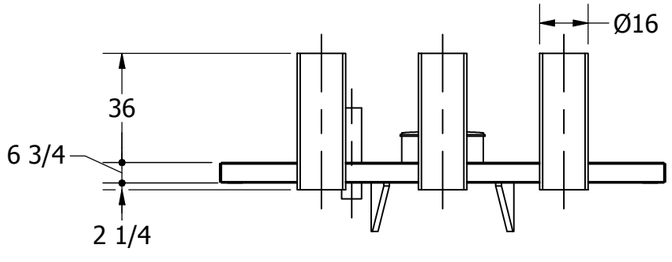




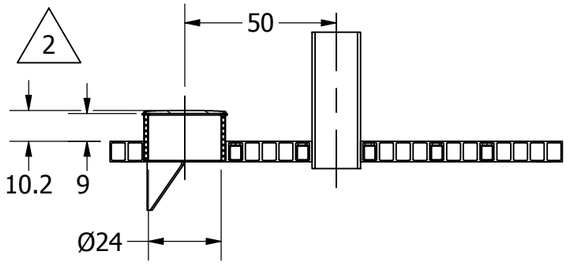
ONLY SHOW PANEL AND HSS IN THIS VIEW

PARTS LIST		
ITEM	DESCRIPTION	QTY
1	P96W WEHOPANEL 27P X 146LG	1
2	PLATE PE 1/2 X 6 X 61 1/2	6
3	16" IPS DR 17 X 45 LG HDPE PIPE PE4710	3
4	6" IPS DR 17 X 30 LG HDPE PIPE PE4710	1
5	24/610 R160 WEHOLITE RISER	1
6	TOP RING PE 28 OD/23 ID X 1/2 THK	1
7	24" HDPE LID w/4" LG SS LAG SCREW SEAL-R #24L OR EQUAL.	1
8	HSS 5X4X1/4 X 144 LG WITH SHIM 3/4 X 3 PL	2
9	HSS 5X4X1/4 X 134 LG WITH SHIM 3/4 X 3 PL	2
10	HSS 5X4X1/4 X 102 LG WITH SHIM 3/4 X 3 PL	1
11	PE GUSSET 2 X 12 X 16 CUT TO SHAPE	2





SECTION A-A



SECTION B-B

Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

REV	CHK	BY	DESCRIPTION	M/D/Y
2	DP	LL	DIMS CHANGED	07/09/2021
1	DP	LL	ITEM 10 LG AND LOCATION CHANGED	05/20/2021

DRAWN BY: LL 5/14/2021
CHECKED BY: DP 5/14/2021
UNITS: INCHES
SIZE: B L2

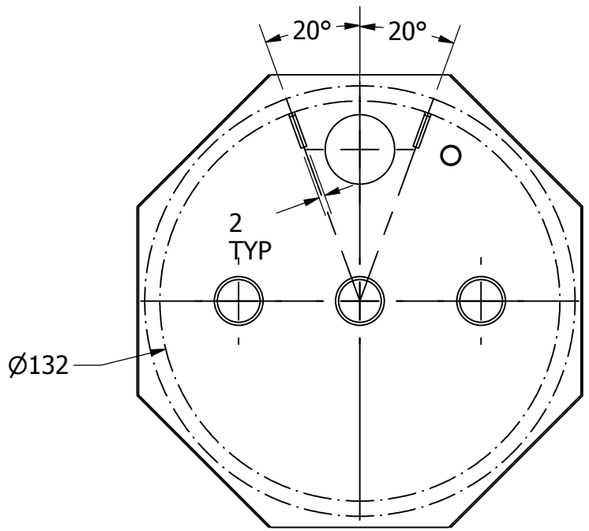
INFRAPIPE SOLUTIONS LTD.

TITLE: P96W TOP ASSEMBLY FOR 132 RSC250 PUMP STATION

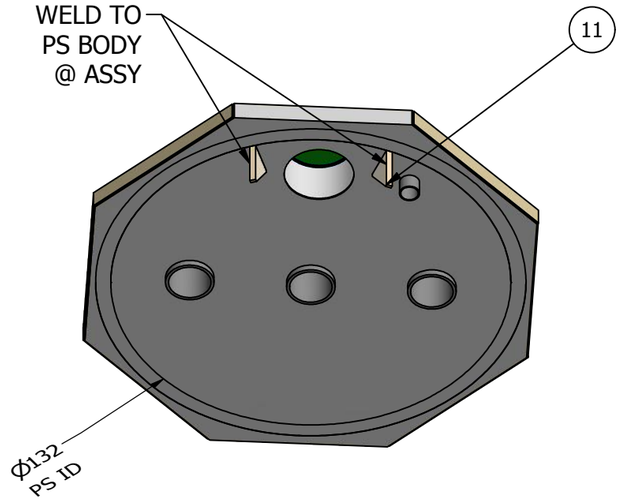
DWG # : 2511-6A

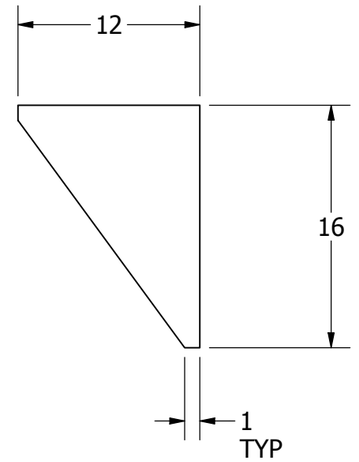
REV: 2
SHT: 1 OF 2

PROJECT: HARBS
OC # : OC3977



BOTTOM VIEW





PE GUSSET 2 X 12 X 16 CUT TO SHAPE

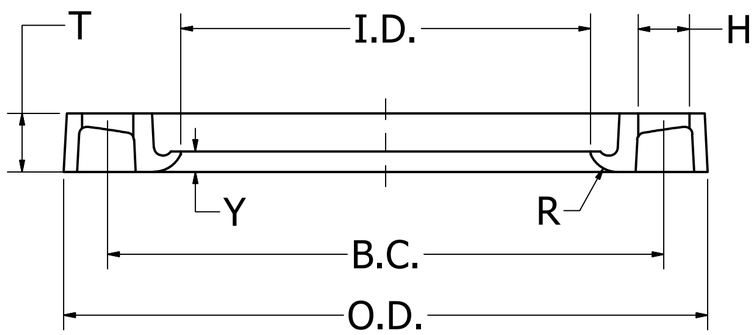
Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

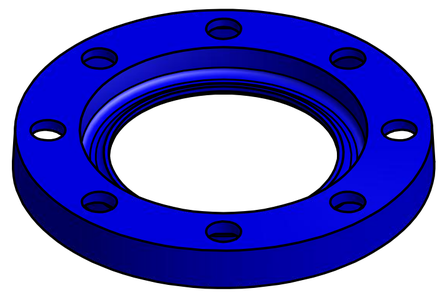
DRAWN BY: LL	5/14/2021	TITLE: P96W TOP ASSEMBLY FOR 132 RSC250 PUMP STATION	
CHECKED BY: DP	5/14/2021		
Infra Pipe Solutions Ltd.	UNITS: INCHES		
INFRAPIPE SOLUTIONS LTD.		DWG # : 2511-6A	REV: 2
			SHT: 2 OF 2
SIZE: B	L2	PROJECT: HARBS	OC # : OC3977

REVISION HISTORY		
REV	DESCRIPTION	DATE
1	ORIGINAL	08/01/11

Material: Ductile Iron, ASTM A536, 65/45/12

Dimensions											
Pipe Diameter (in)	O.D.	T	I.D.	Y	Bolt Count	Bolt Hole Size (H)	Bolt Hole Circle (BC)	R	Weight (lbs)	HDPE Operating Pressure	Steel Operating Pressure
4"	9.000	0.940	4.900	0.270	8	0.750	7.500	0.440	5.1	267	267
6"	**11.000**	**1.000**	**7.000**	**0.280**	**8**	**0.880**	**9.500**	**0.500**	**7.0**	**267**	**267**
8"	13.500	1.120	9.130	0.300	8	0.880	11.750	0.500	10.5	267	267
10"	**16.000**	**1.190**	**11.250**	**0.600**	**12**	**1.000**	**14.250**	**0.500**	**15.3**	**267**	**267**
12"	19.000	1.500	13.370	0.630	12	1.000	17.000	0.500	24.4	267	267
14"	**21.000**	**1.630**	**15.480**	**0.700**	**12**	**1.130**	**18.750**	**0.500**	**36.1**	**200**	**267**
16"	23.500	1.880	17.590	0.700	16	1.130	21.250	0.500	48.3	200	267
18"	**25.000**	**1.750**	**19.700**	**0.880**	**16**	**1.250**	**22.750**	**0.500**	**47.9**	**200**	**267**
20"	27.500	2.060	21.850	0.480	20	1.250	25.000	0.500	60.7	200	267
24"	**32.000**	**2.130**	**26.050**	**0.600**	**20**	**1.380**	**29.500**	**0.500**	**90.4**	**200**	**267**





Weholilte "For Approval" Tank Drawings (7/29/21)
Informational and not yet approved for fabrication -
Provided to Contractor to aid in Bid Development

Notes
Class 150 Bolt Circle. Mates with ANSI B16.5, B16.1, AWWA C207
Material: Tensile 65,000 psi; Yield 45,000 psi; 12% elongation
Finish: Blue primer, Hot dipped galvanized or Epoxy coated

DRAWN	Matt Graff	8/1/2011
ENG	Ellis Clark	8/2/2011
QA	Adil Nasir	8/1/2011
VPOP	Duncan Schlicht	8/19/2011

IMPROVED PIPING PRODUCTS, INC.

TITLE: DIPS-FM Backup Ring Submittal

UNLESS OTHERWISE NOTED, ALL DIMENSIONS IN INCHES

SIZE	PART NO	SALES NO		
C				
SCALE		REV 1	SHEET 1 OF 1	

Ongoing engineering design efforts may affect the technical information listed in our publications.

ATTACHMENT -
HARSB Phase 2 PreBid Meeting
(7/29/21) Materials

J-U-B ENGINEERS, INC.

J-U-B COMPANIES | THE LANGDON GROUP | GATEWAY MAPPING INC.

PRE-BID CONFERENCE
CONFORMED NOTES

PROJECT:	Hayden Area Regional Sewer Board Phase 2 Tertiary Treatment and Biosolids Project
OWNER:	Hayden Area Regional Sewer Board (HARSB)
DATE/ TIME:	July 21, 2021; 9:00 AM
LOCATION:	City of Hayden City Hall 8930 N Government Way Hayden, ID 83835
ATTENDANCE:	See sign-in sheet (attached)

AGENDA

- Introduction and Sign-in
- Project Overview
- Review Portions of the Bidding Documents
- Questions from Bidders

Disclaimer: *The purpose of the Pre-Bid Conference is to review some (but not all) of the conditions in the Bidding Documents and provide an informal forum for the Prospective Bidders to ask questions on the Work identified in the Bidding Documents. All answers by Owner's Representative are considered informal and non-binding. Any discussion during this meeting is considered informal and only changes made by addendum shall be considered part of the Bidding Documents.*

1 Introduction & Sign-in

Hayden Area Regional Sewer Board:
System Administrator – Ken Windram
Superintendent – Brock Morrow *(Not Present)*

J-U-B Engineers:
Design Manager: Don Bloomquist, PE (***Point of Contact for Bidding Questions***)
dbloomquist@jub.com , 208-376-7330
Program Manager: Mike Conn, PE *(Not Present)*

Attendance for this meeting will be documented; see attached sign-in sheet.

2 Project Overview

2.1 Project Summary

The project is an upgrade and expansion of the HARSB's existing Wastewater Treatment Plant. Project components generally include:

- Installation of one new solids contact clarifier (SCC), mechanism, and other associated equipment.
- New hollow-fiber ultrafiltration units inside a building expansion for tertiary membrane treatment.
- Installation of ancillary system to support tertiary treatment including: secondary effluent pump station, membrane feed pump station, chemical feed systems, ultra-filtration membrane Clean-In-Place and neutralization systems, ultrafiltration air scour system, process air system (pneumatic valves) filtrate/backwash supply pump station, and Plant Drain Pump Station No. 2.
- New dewatering facility including polymer systems, blend tank, solids pumping and screw press equipment.
- New solar dryer facility to treat and dry dewatered biosolids.
- Site Civil, Yard Piping and supporting electrical improvements.

2.2 Pre-Bid Power Point

See attached for a copy of the Pre-Bid meeting power point.

3 Project Documents and Important Requirements

3.1 Organization

- Volume 1 – Bidding and Agreement Forms
    - Section 1A – Bid Forms
    - Section 1B – Contract Forms
    - Section 2 – General Conditions
    - Section 3 –Supplementary Conditions
    - Section 4 – Idaho Clean Water State Revolving Fund (CWSRF) Specifications Insert
    - Section 4A – Davis-Bacon Prevailing Wage Decision
- Volume 2 – Technical Specifications (Div. 1-15)
- Volume 3 – Technical Specifications (Div. 16)
- Volume 4 – Plans (J-U-B Engineers)
    - Generally: Survey; Site Civil; Yard Piping; Structural (SCC, CIP Bldg, UF Bldg, Dewatering Bldg); Architectural (CIP Bldg, UF Bldg, Dewatering Bldg); Building Mechanical (CIP Bldg, UF Bldg, Dewatering Bldg); Process Mechanical (Dewatering Bldg, Plant Drain Pump Station No. 2); Electrical (Site, SCC, CIP Bldg, UF Bldg, Dewatering Bldg); Instrumentation (Biosolids Dewatering, Plant Drain Pump Station No. 2)
- Volume 5– Plans (WesTech Engineering)
    - Generally: Process Mechanical and Instrumentation for Integrated Tertiary Treatment (ITT) processes, including: Secondary Effluent Pump Station, Solids Contact Clarification, Membrane Feed/Ultrafiltration Pump Station, Ultrafiltration System, Ultrafiltration Clean-In-Place and Chemical Feed Systems, Ultrafiltration Backwash System, and Compressed Air Package)

- Volume 6 – Plans (Aqua Engineering)
    - Generally: Entire design for Biosolids Treatment / Solar Dryer facility, including Structural, Architectural, Process Mechanical, Building Mechanical, Electrical, and Instrumentation.
- Volume 7 – Pre-Procured Materials Information (WesTech Integrated Tertiary Treatment Equipment)
- Volume 8 – Pre-Procured Materials Information (ABC Pre-Engineered Metal Buildings)
- Volume 9 – Pre-Procured Materials Information (Huber Solar Dryer Equipment)
- Volume 10 – Pre-Procured Materials Information (Weholite HDPE Tanks)
- Volume 11 – Pre-Procured Materials Information (Miscellaneous)

3.2 Volume I – Bidding and Agreement Forms

Addendum 1:
Changed to 2:00 PM local time

Section 1A – Bid Forms

1. **Document 00030 – Advertisement for Bids:** Bids are due by 11:00 AM local time Tuesday, August 31, 2021. At the Hayden Area Regional Sewer Board Wastewater Treatment Plant: 10789 N. Atlas Road, Hayden, ID 83835, and will be publicly opened in the conference room.
    a. Electronic copies of the Bidding Documents are available for download at www.questcdn.com per the advertisement. Project # 7920964.

    b. Pre-Bid Meeting attendance is mandatory.

2. **Document 00040 – Bidder's Checklist:** This list is offered as an aid to the Bidder in preparing the bid. Verify all of the items listed are provided, as a minimum.

3. **Document 00200 – Instructions to Bidders:**
    a. Describes conditions related to the project, bid submittal, bid security, etc.
    b. Article 11 – Substitute and "Or-Equal" Items:
        i. The Contract, if awarded, will be on the basis of materials and equipment specified or described in the Bidding Documents without consideration of possible substitute or "or-equal" items. Whenever it is specified or described in the Bidding Documents that a substitute or "or-equal" item of material or equipment may be furnished or used by Contractor if acceptable to Engineer, application for such acceptance will not be considered by Engineer until after the Effective Date of the Agreement. The procedure for submission of any such application by the Contractor and consideration by the Engineer is set forth in the General Conditions, Owners Supplementary Conditions, and/or individual Technical Specifications.

    c. Article 19 – Evaluation of Bids and Award of Contract
        i. "Owner reserves the right to reject any or all Bids, including without limitation, nonconforming, nonresponsive, unbalanced, or conditional Bids. Owner also reserves the right to waive all informalities not involving price, time, or changes in the Work and to negotiate contract terms with the Successful Bidder." (19.01)
        ii. "If the Contract is to be awarded, Owner will award the Contract to the Bidder submitting the lowest responsive bid who has also complied with the statutory and administrative requirements of the bid process and who holds the requisite licenses." (19.06)

iii. "Determination of the lowest Bid price shall be based on the Total Bid Price – Base Bid plus the sum of all Additive Alternates 1, 2, 3, 4, and 5." (19.08)

d. Article 25 – Prevailing Wage Rates

iv. "Contractors are required to pay prevailing wage rates in accordance with the Davis-Bacon Act on this project. Refer to Section 4 of the Project Manual for current prevailing wage/Davis-Bacon wage determinations." (25.01)

e. Article 26 – Funding Agency Requirements

v. "This project is funded in part by Idaho Department of Environmental Quality (IDEQ) State Revolving Loan Fund (SRF) funds. Contractors are required to comply with all funding agency requirements which are included in Volume 1, Section 4. Contractor's attention is further directed to Volume 1, Section 4 which includes compliance measures for the Environmental Protection Agency (EPA)'s Clean Water State Revolving Fund (CWSRF) American Iron and Steel (AIS) Requirements." (26.01)

2. Document 00410 – Bid Form

a. Article 2.01: Bid will remain subject to acceptance for 60 days after Bid Opening – allows HARSB review and concurrence by funding agencies.

b. Article 5.01: Basis of Bid

i. Total Bid Price – the sum of the below

1. Base Bid: WWTP Improvements (All Work Under Contract Documents Except Those Items Listed Separately Below)

2. Additive Alternate No. 1: Biosolids Treatment Train 2 Equipment

3. Additive Alternate No. 2: Additional AC Paving Extents

4. Additive Alternate No. 3: Utility Water Yard Piping Extension

5. Additive Alternate No. 4: Plant Drain PS No. 2 Forecemain size increase

6. Additive Alternate No. 5: Ground to Air Heat Transfer System

c. Article 7.01.B: "Bidder shall include in his Bid the name, or names and address, or addresses, and Idaho Public Works Contractor License Numbers of the Subcontractors who shall, in the event the Bidder secures the Contract, subcontract the plumbing, heating and air-conditioning work, and electrical work under the general Contract" – Use Document 00440.

3. Document 00415 – Contractor's Non-Collusion Affidavit

4. Document 00420 – Anti-Discrimination Affidavit

5. Document 00430 – Bid Bond – Penal Sum Form

6. Document 00440 – Naming of Subcontractors Form

Section 1B – Contract Forms

1. Document 00500 – Successful Bidder's Checklist

2. **Document 00510 – Notice of Award**

3. **Document 00520 – Agreement**

   a. Conditions of the Agreement, including scope of the Contract Documents.

   b. Contract Days: "The Work will be substantially completed within **410 calendar days** after the date when the Contract Times commence to run as provided in Paragraph 2.03 of the General Conditions & SC-2.03, and completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions within **440 calendar days** after the date when the Contract Times commence to run." (4.02)

   c. American Iron and Steel Compliance (10.06): "The Required AIS Construction Contract Clause from the Idaho Clean Water State Revolving Fund (CWSRF) Specifications Insert (Volume 1, Section 4, Article I.12.b) is hereby included by reference."

4. **Document 00550 – Notice to Proceed**
5. **Document 00610 – Performance Bond**
6. **Document 00615 – Payment Bond**
7. **WH-5 Public Works Contract Report**
8. **Document 00620 – Contractor's Application for Payment**
9. **Document 00625 – Certificate of Substantial Completion**
10. **Document 00940 – Work Change Directive**
11. **Document 00941 – Change Order**
12. **Document 00942 – Field Order**
13. **Document 00950 – Contractors Tax Affidavit**

Section 2 – General Conditions

1. 2015 ISPWC Division 100 – Standard General Conditions to the Construction Contract

2. Section 6.09.D:
   "Idaho Code Section 44-1002 requires the following: The Contractor must employ ninety-five percent (95%) bona fide Idaho residents as employees on any job under any such contract except where under such contracts fifty (50) or less persons are employed, the Contractor may employ ten percent (10%) nonresidents, provided, however, in all cases employers must give preference to the employment of bona fide residents in the performance of said work, and no contract shall be let to any person, firm, association, or corporation refusing to execute an agreement with the above mentioned provisions in it; provided that, in contracts involving the expenditure of federal aid funds this act shall not be enforced in such a manner as to conflict with or be contrary to the federal statues prescribing a labor preference to honorably discharged soldiers, sailors, and marines, prohibiting as unlawful any other preference or discrimination among citizens of the United States.

Section 3 – Supplementary Conditions

1. Amends or supplements the General Conditions

2. SC-14.02.C.1: This paragraph has been revised to allow the Owner forty-five (45) days after presentation of the Application for Payment to Owner with Engineer's recommendation before payment becomes due.

Section 4 – Idaho Clean Water State Revolving Fund (CWSRF) Specifications Insert

1. Point of Contact: Chris Westerman, EI, IDEQ, Chris.Westerman@deq.idaho.gov, (208.666.4611)

2. Reference Part P Submissions for items required by all Bidders as part of the sealed bid, by the Successful Bidder prior to issuance of the Authorization to Award, by the Successful Bidder to the Loan Recipient prior to the issuance of the Notice to Proceed, and by subcontractors after project completion. Additional forms and requirements apply.

Section 5 – Davis-Bacon Prevailing Wage Decision

1. Point of Contact: Dorian Komberec, Community Development Specialist, Panhandle Area Council, dkomberec@pacni.org, (208) 772-0584 ext. 310 ?

3.3 Volume II – Technical Specifications – Divisions 1-15

1. **Section 01010 Summary of Work**
2. **Section 01011 Geotechnical Report**
    a. Includes the geotechnical engineering evaluation used for this project (01011A).
3. **Section 01014 Work Sequence**
    a. Review of major work elements and work sequencing considerations (including ability to remove components or processes from service) for Contractor's use in developing a detailed project schedule.
4. **Section 01025 Measurement and Payment**
    a. Basis of payment for bid items
    b. Includes requirements for the schedule of values required from the Successful Bidder following Notice of Award (1.3)
    c. Payment Application (1.6.G):
    d. Funding Agency Requirements:
        i. Section 1.6.H: AIS documentation and compliance is required with applications for payment (reference conditions in Volume I, Section 4).
    e. Use Tax
5. **Section 01300 Submittals**
    a. Use of a web-based cloud construction administration system is required for the project (2.1).
    b. Submitted Data Clarity (1.4.N):
        i. "Data or O&M information within the submittal that is conflicting, irrelevant, or not specific to the product being provided shall be clearly struck-through or deleted by the Contractor during markup and prior to submission."

1. This will be amended by addendum.

c. Submittal Limits (1.15):

i. "Two submittals will be permitted for each item in this section at no cost to the Contractor. The two submittals include one initial submittal and one resubmittal.

ii. "All submittals requiring a third review by the Engineer shall be considered unresponsive and the Owner will charge the Contractor on a Time and Materials basis for the third and all subsequent reviews and all related administrative costs not to exceed $1,000.00 for each resubmittal."

6. Section 01600 Materials and Equipment

a. "IDEQ SRF funding requires compliance with the AIS requirements for certain products and materials. Contractor shall review and comply with the requirements contained in Volume I, Section 4. Contractor's attention is also directed to Environmental Protection Agency (EPA) waivers that may be applicable this project." (1.7.A)

b. "Products and materials specified in the Contract Documents do not necessarily comply with AIS requirements. In the event a specified product or material is not AIS compliant, Contractor shall submit an equivalent product or material, or a substitution request that is AIS compliant (for review by Engineer in accordance with General Conditions, Article 6.05), or secure a product waiver from the Funding Agency. Contractor's efforts to secure AIS-compliant products or materials shall be at no additional cost to Owner." (1.7.B)

7. Section 01625 Owner-Furnished Equipment and Materials Coordination and Installation

a. Details Contractor requirements as related to the installation and startup of Owner-furnished equipment.

8. Section 01650 Starting of Systems

a. Review of major work elements and work start-up, acceptance testing and commissioning sequencing considerations for Contractor's use in developing a detailed project schedule.

9. Section 11000 – General Requirements for Equipment

10. Divisions 14 and 15

a. Equipment specifications are located in these divisions.

b. Most process equipment is Owner-Furnished.

3.4 Volume 3 – Technical Specifications – Divisions 16

1. Electrical specifications are located in Division 16.

3.5 Volumes 4-6 – Plans

Organization

By Discipline:

- G – General
- C – Civil
- CU – Civil Yard Piping
- CG – Site Civil / Grading
- S – Structural
- A - Architectural
- D – Process Mechanical
- CD – Civil/Process Mechanical Details
- M – Mechanical

and by Process Codes

- 00 – General, Overall, Notes, Site Work, Yard Piping
- 16 – Secondary Treatment
- 40 – Solids Contact Clarifier
- 42 – Ultrafiltration (UF)
- 48 – CIP Building / Chemical Systems
- 80 – Biosolids Dewatering
- 82 – Biosolids Treatment / Solar Dryer
- 88 – Plant Drain Pump Station No. 2

3.6 Volumes 7-11: Pre-Procured Materials Information

3.7 Addenda

1. **First Addendum tentatively planned for July 30, 2021.**

4 Questions

Questions submitted during the meeting via the chat feature may be answered either live as part of the meeting or by addendum (as appropriate).

5 Questions from Bidders / Discussion (*during meeting*)

Question: Will there be conflicting wage rates between the Building and Heavy Classifications?

Response: No, the Heavy wage decision will be the primary wage decision. The wage rates for the Heavy wage decision will supersede those on the Building wage decision. The rates common to both wage decisions have been crossed off the Building wage decision to avoid confusion.

Question: Can J-U-B provide Site Civil and Yard Piping CAD drawings?

Response: J-U-B will not provide CAD layouts to avoid conflicts between the Contract Documents and the CAD model. J-U-B can issue a PDF layout of the Site Civil and Yard Piping drawings on one sheet to all prospective bidders.

Question: What is the weight of the tanks?

Response: J-U-B will obtain this information and distribute to all prospective bidders.

Question: Can schedule dates be adjusted?

Response: HARSB can discuss schedule and approach in detail with the winning bidder as contract and award documents are being processed.

Question: Is there any way to accelerate the building construction before late spring 2022?

Response: This timeframe is an estimate based on information provided by ABC Building Corp. HARSB will follow up with ABC to refine the building delivery schedule.

Question: Will parts arriving on site be counted?

Response: Yes. HARSB staff will count parts and assist with shipment inventory and verification.

Question: Are the framing package and the skin of the building manufactured in the same location?

Response: No, they are manufactured in separate facilities.

Question: Can J-U-B/HARSB provide a detailed list of parts and equipment to be paid for using replacement funding?

Response: Yes. This will be provided by addendum.

Question: How long does Engineer have to review and return submittals?

Response: No specific engineering submittal review timeframe is identified in the Contract Documents. This will be added by addendum.

Question: Have products from the listed material suppliers been verified for PCB compliance?

Response: No.

Question: What is the lead time on owner provided MCC panels?

Response: WesTech is providing control panels per their schedule, 26-32 weeks out from the notice to commence fabrication.

Question:

Response:

HAYDEN AREA REGIONAL SEWER BOARD (HARSB)
PHASE 2 TERTIARY TREATMENT AND BIOSOLIDS PROJECT
PRE-BID CONFERENCE
July 21, 2021 - 9:00 am
Sign in Sheet

No.	Name	Company	Email/phone
1	Walker Noe	J-U-B	wnoe@jub.com / 208 762 8787
2	CLINT REID	PCE	CREID@Powercityelectric.com/509-319-5335
3	Paul Clary	Clearwate Construction & Management	Paul@ClearwaterConstruction.us
4	Amy Genne	Apollo	amy.jenne@apollo-gc.com
5	Rusmir Civic	RSCI	steve pierce@rscigroup.com RCivic@rscigroup.com
6	Chad Franks	Shannon Industrial	industrial@shannoncompanies.net
7	CLAY BRANT	TML CONST INC.	CLAY@TMLCONST.COM 208-818-1765
8	Matt miller	B+E Electric inc.	matt@beelectricinc.com 208 871 3951
9	Don Bloomquist	J-U-B	dbloomquist@jub.com/ 208-813-7800
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11			
12			
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14			
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16			

1

Agenda

9:00 AM – Introductions

9:15 AM – Project Overview Presentation

Ken Windram –HARSB Project Details

Don Bloomquist – Review of Project Plans

12:00 PM – Meeting done

2

2

What is HARSB?

- Hayden Area Regional Sewer Board
- Joint Powers Entity providing sewer treatment for:
  - City of Hayden
  - Hayden Lake Sewer District
  - Kootenai County

3

3

4

Project Funding

1. Idaho Department of Environmental Quality Clean Water State Revolving Loan Fund
   - City of Hayden
   - Hayden Lake Sewer District
2. HARSB Capital Reserves
3. HARSB Replacement Funds

5

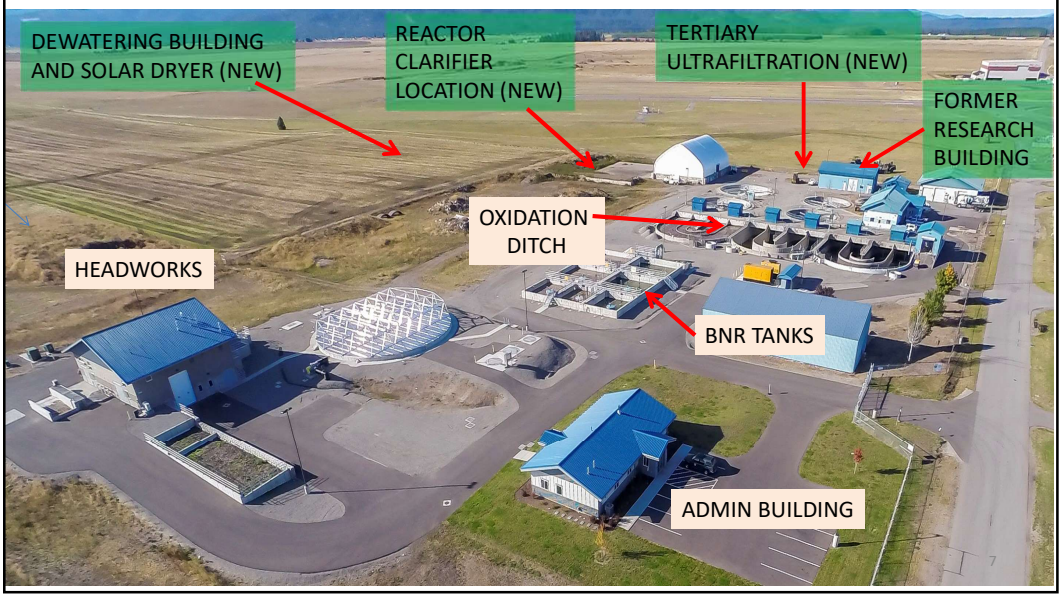
5

Project Background

- **Phase 1 Biological Nutrient Reduction (BNR):**
  - Completed December 2015
  - Provides biological phosphorus removal <0.5 mg/L
  - Included other process upgrades (headworks, flow EQ, secondary clarification, dewatering, administration facilities)
- **Phase 2 Tertiary Treatment and Biosolids:**
  - Tertiary Treatment necessary to meet final permit limits (TP<0.05 mg/L)
  - Biosolids dewatering and treatment (solar dryer)

6

HARSB PLANT SE TO NW



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Phase 2 Design Team

ITT Equipment Provider and Design Engineer.

- **WesTech Engineering**: Solids Contact Clarifier and Ultra-Filtration System

Solar Dryer Engineer:

- **Aqua Engineering:** Huber Solar Dryer

Civil, Site & Dewatering Process Engineer:

- **J-U-B Engineers**

Owner Furnished Items:

PEMB, Pump Station Tanks, etc

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HARSB EFFLUENT PERMIT COMPLIANCE SCHEDULE

- By March 30, 2022, the permittee must provide EPA and DEQ with written notice that design has been completed and bids have been awarded to begin construction to achieve final effluent limitations.
- By March 30, 2023, the permittee must provide EPA and DEQ with written notice that construction has been completed on the facilities to achieve final effluent limitations.

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PROJECT DETAILS

Don Bloomquist, P.E.
JUB Engineers

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Project Schedule

HARSB Phase 2:
Bidding, Award and Construction Schedule:

Bidding Period

- ***Contract Documents Issued to Bidders:*** ***July 16, 2021***
- ***Bid Opening:*** ***August 31, 2021***
- ***Bid Review, Budget Review, IDEQ Review of Bids:*** ***~early September***
- ***Notice of Award*** ***~late September***
- ***Execution of Bonds/Agreement:*** ***~early October***

Construction Period

- ***Contractor Agreement Finalized:*** ***October 22, 2021***
- ***Contractor Notice to Proceed:*** ***November 21, 2021***
- ***Construction Period:*** *(410 calendar days for Construction)*
- ***Substantial Completion → January 5, 2023*** *IDEQ Incldes 120 day IDEQ Administrative Extension to IPDES Permit was approved:*
  - *From 11/20/21 to 3/30/22 for IPDES milestone Part 1.D.3, and*
  - *From 11/20/22 to 3/30/23 for IPDES milestone Part 1.D.4*

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Project Document Organization

Project Manual Organization	
Volume 1	Bidding and Agreement Forms
Volume 2	Technical Specifications (Divisions 1-15)
Volume 3	Technical Specifications (Division 16)
Volume 4	Plans: (J-U-B Engineers, Inc)
Volume 5	Plans: (WesTech Engineering)
Volume 6	Plans: (Aqua Engineering)
Volume 7	Procurement (ITT/WesTech)
Volume 8	Procurement (PEMB/ABC-Nucor)
Volume 9	Procurement (Solar Dryer Equipment/Huber)
Volume 10	Procurement (HDPE Tanks/Weholite)
Volume 11	Procurement (Misc Owner-Furnished Item Information)

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Contract Considerations

- Contract Assignment:
  - HARSB to retain contracts for pre-procured (Owner-Furnished) items. Coordination and installation specification for Contractor to receive, install goods and coordinate services.
- Funding:
  - IDEQ SRF Funds: 2 separate loans
  - HARSB Capital Reserve Funs
  - HARSB Replacement Funds

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Contract Considerations

- Project Contract Conditions:
  - IDEQ SRF includes American Iron and Steel Requirements
  - Davis Bacon Federal Prevailing Wage Rates
  - Panhandle Area Council (HARSB Contract Wage Administrator) over Davis Bacon Federal Prevailing Wage Rates and reporting.

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Contract Considerations

- **Schedule of Values / Contractor Invoicing**
  - Funding Agreements require Contractor Schedule of Values to be broken down by project elements (Ultra-Filtration, Solids Contact Clarifier, Utility Water, Dewatering, Solar Dryer) followed by a further breakdown by spec/trade divisions.
  - Invoices must be received by the second (2^{nd}) day of the month.
  - Pay Applications must be approved by all 3 HARSB entities boards before payment can be made.

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Additive Alternates

- General: Additive Alternates in Section 01025
- Add Alt #1
  - Biosolids Treatment Train 2 Equipment
- Add Alt #2
  - Additional road asphalt paving
- Add Alt #3
  - Utility Water Extension
- Add Alt #4
  - Plant Drain PS No. 2 Forcemain Size Increase
- Add Alt #5
  - Solar Dryer Ground to Air Heat Transfer System

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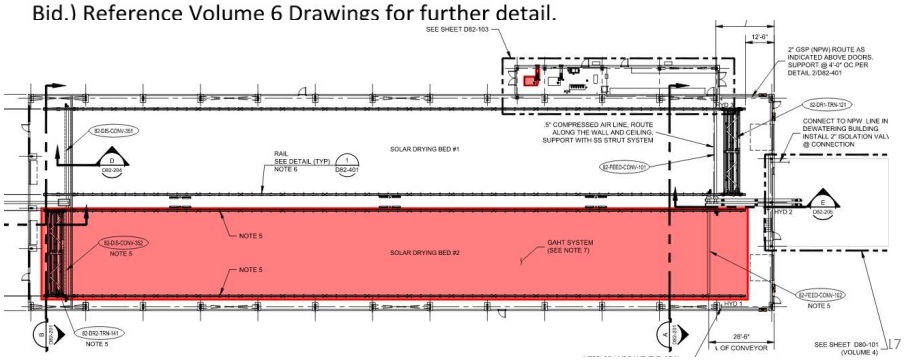
Additive Alternate #1

- Biosolids Treatment Train 2 Equipment

A. General Description: Additive alternate includes the installation of Biosolids Treatment Train 2 equipment including Installation of Owner-Furnished Solids Drying Bed # 2 biosolids turner mechanism (82-DR2-TRN-141), Installation of Owner-Furnished Boiler No. 2 (82-RF-BLR-202), Biosolids distribution conveyor (82-FEED-CONV-102) and Biosolids Loadout Conveyor (82-DIS-CONV-352) and other associated items. (Building, floor, radiant floor piping and building HVAC system/controls are included with Base Bid.) Reference Volume 6 Drawings for further detail.



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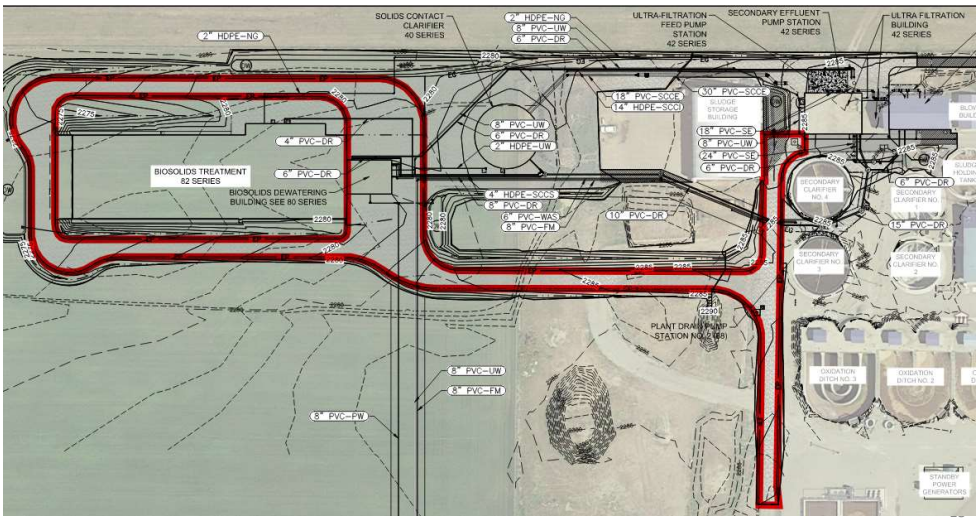
Additive Alternate #2

- Additional Road Asphalt Paving Extents



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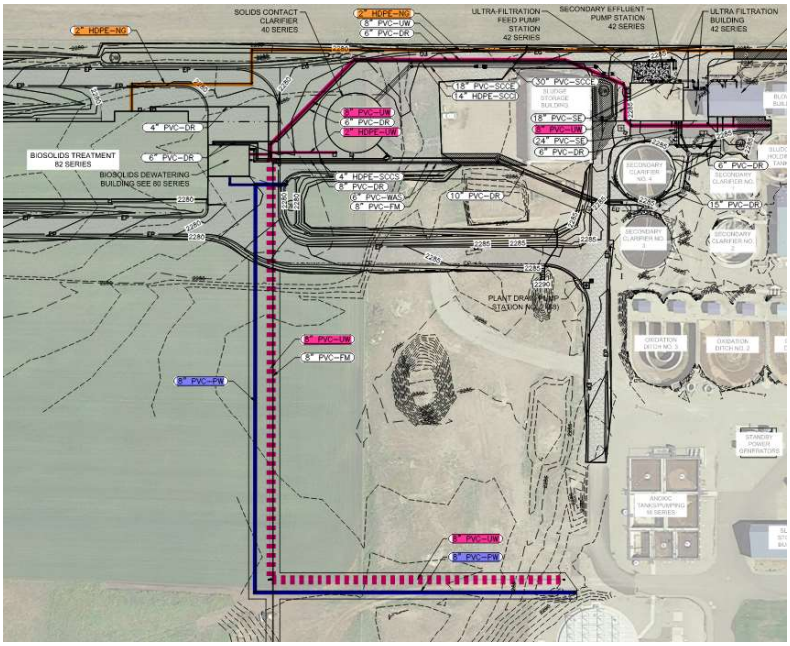
Additive Alternate #3

- Utility Water Line Extension



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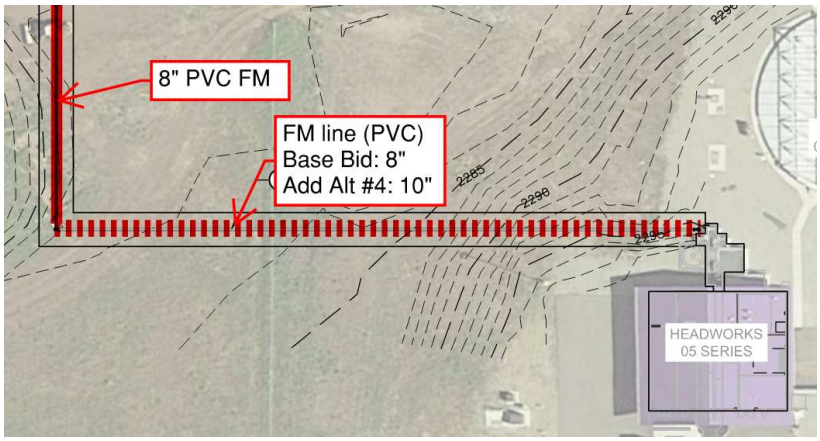
Additive Alternate #4

- Plant Drain Pump Station #2 Forcemain Size Increase



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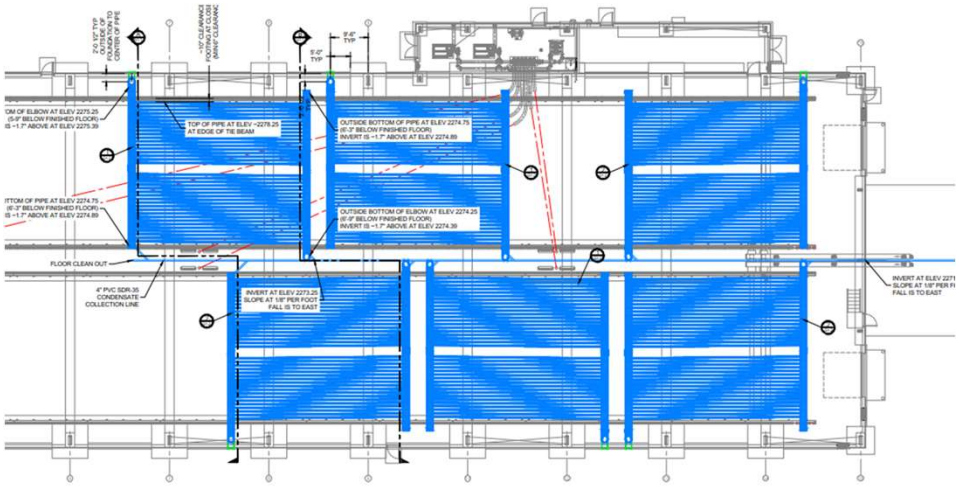
Additive Alternate #5

- Solar Dryer Ground to Air Heat Transfer System



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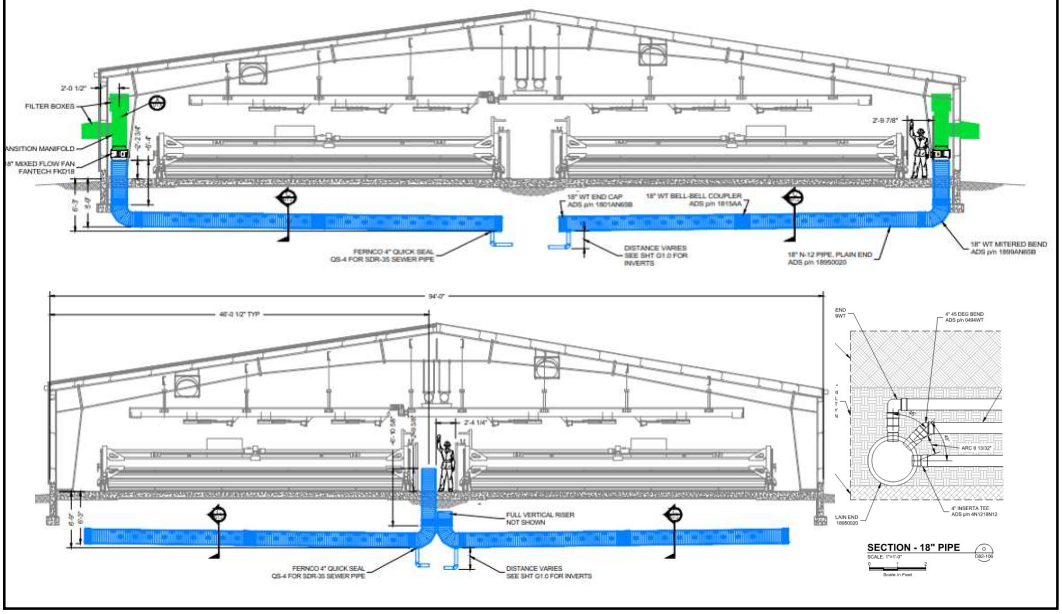
Additive Alternate #5

- Solar Drver Ground to Air Heat Transfer Svstem



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Connections to Existing Systems

- General: Outlined in Sections 01014 (Work Sequence) and 01650 (Starting of Systems)
- Secondary Effluent
  - Separate pipelines from Secondary Clarifiers [#1 & #2] and [#3 & #4]
- Effluent Parshall Flume Box
  - Modifications to seal off former Secondary Effluent pipelines
  - New Ultra-Filtration Filtrate and Secondary Effluent Overflow

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Connections to Existing Systems

- Tertiary Equalization Influent/Effluent
- WAS Pipelines Extensions to Dewatering
- Plant Drain Pump Station #2 Forcemain Connection at Headworks
- Utilities
  - Utility Water
  - Potable Water
  - Natural Gas (by Avista)

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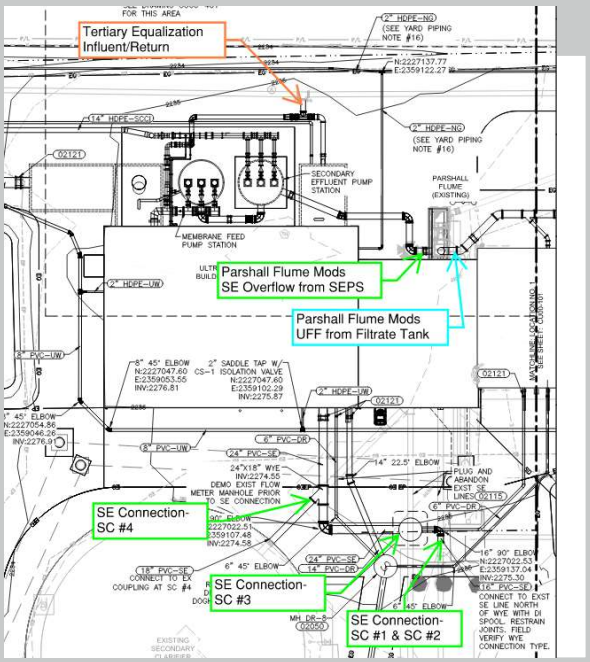
Connections to Ex. Systems - North



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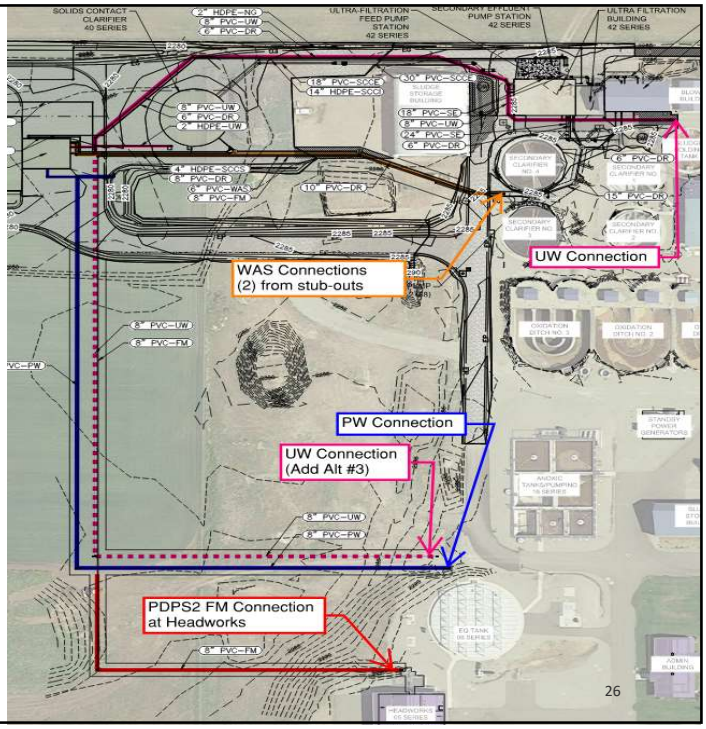
Connections to Existing Systems - Sitewide



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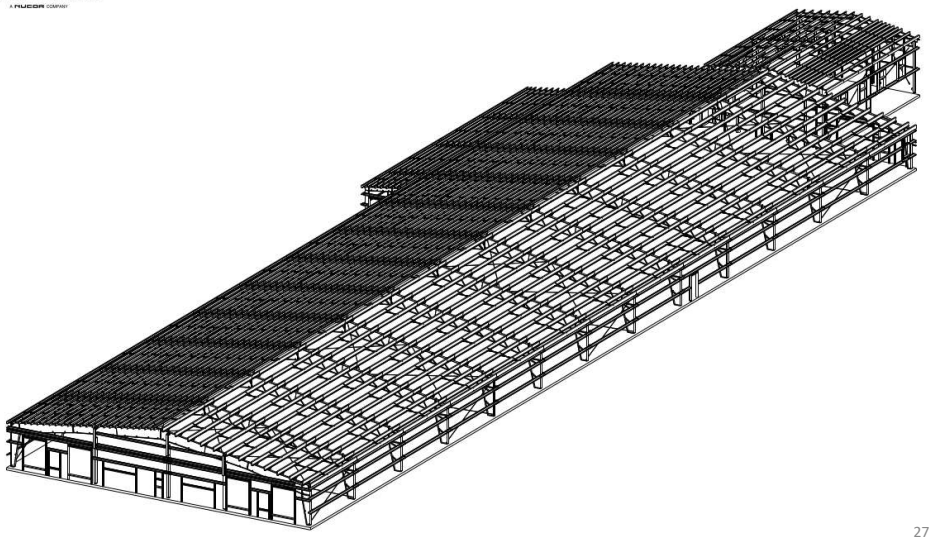
SOLAR DRYER / DEWATERING BUILDING

AMERICAN BUILDINGS
A NUCOR COMPANY

JOB NUMBER
N21B0472A
PROJECT NAME
HARSB Biosolids Drying Building



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HARSB Project Requirements (Ken Windram)

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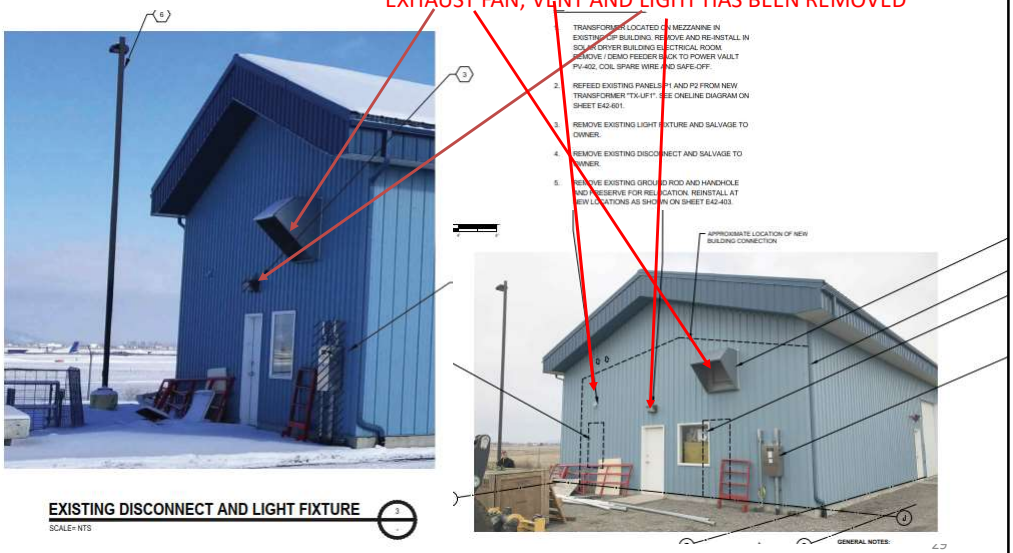
WEST END OF CIP BUILDING



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HARSB OWNER PROCURED EQUIPMENT FOR TERTIARY TREATMENT AND BIOSOLIDS PHASE 2 PROJECT

SUPPLIER		ESTIMATED DELIVERY DATE
WESTECH ENGINEERING	FINAL DRAWINGS REVIEW BEFORE RELEASED TO FABRICATION.	**26-32 week range from notice to commence fabrication to shipment** **If notice given Sept 1, shipment by June 2022**
WEHOLITE	RELEASTED TO WEHOLITE FOR FABRICATION. 10 WEEKS FOR FABRICATION.	**FEBRUARY 2021**
HUBER	RELEASED FOR FABRICATION	HUBER EQUIPMENT DELIVERED **DECEMBER 2021**
ABC BUILDING CORP	FINAL ABC IS PRODUCING FABRICATION DRAWINGS JULY	LATE SPRING 2022
POLYBLEND POLYMER UNIT	ON SITE AT HARSB	ON SITE
3110 Gallon FRP Tank	ON SITE AT HARSB.	ON SITE
TAURUS POWER (SCADA PRO	CONTRACTS SIGNED WAITING FOR PROGRAMING	
PWTECH 2ND SCREW PRESS		SPRING 2022
HYDRASTAL PLANT DRAIN PUMP STATION 2		SPRING 2022

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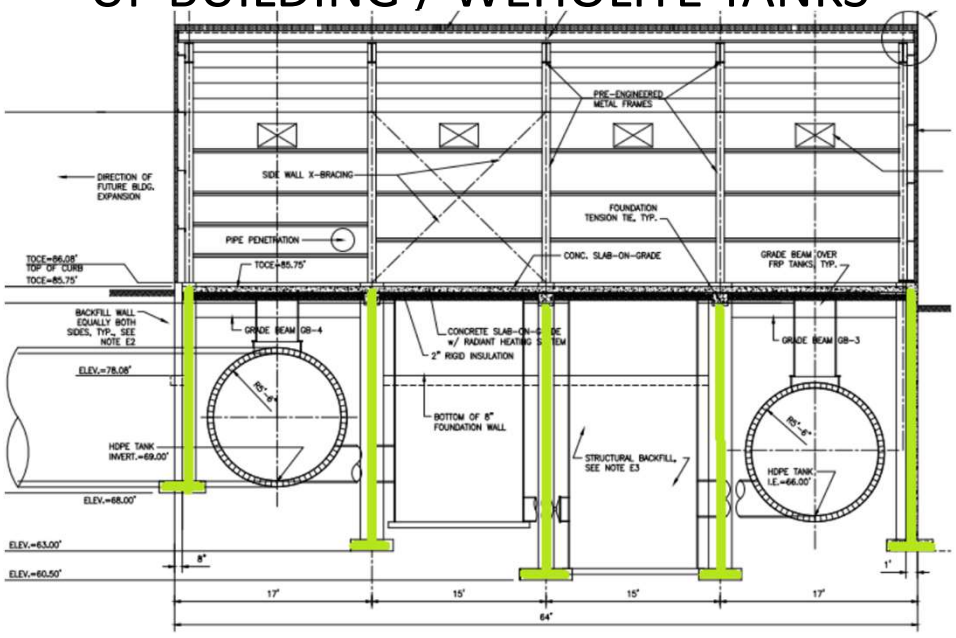
UF BUILDING / WEHOLITE TANKS



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INFRAPIPE

Weholite® Structural Profile Wall HDPE Pipe Installation Guide

VOLUME 10: Procurement (HDPE Tanks/Weholite)

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REPLACEMENT COSTS SEPARATED

- Replacement funding is separate from other funding sources.
- The Contractor must separate the Replacement Activities costs in the schedule of values.
- Replacement activities include ALL Dewatering equipment procurement, installation and related mechanical, electrical, structural, etc. costs.

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DEWATERING REPLACEMENT EQUIPMENT

Item	Process Area	Tag Number	Description	Sheet Reference
~~1~~	~~10 SOLIDS CONTACT CLARIFIER~~	~~10 SCCS P 301~~	~~SCC SLUDGE WASTE PUMP~~	~~D-80-101; VOLUME 5 P~~
2				
3	80-BIOSOLIDS DEWATERING	80-POLS-ME-401	EXST POLYMER SYSTEM (RELOCATED)	I80-701
4	80-BIOSOLIDS DEWATERING	80-POLS-ME-401	*POLYMER PREPERATION SYSTEM NO.1 (ACRISON DRY AND LIQUID)*	I80-701
~~5~~	~~80-BIOSOLIDS DEWATERING~~	~~00-DS-MXR-400~~	~~*MIXER FOR SLUDGE BLEND TANK*~~	~~I80-701~~
6	80-BIOSOLIDS DEWATERING	80-POLS-P-501	*POLYMER FEED PUMP NO.1*	I80-702
7	80-BIOSOLIDS DEWATERING	80-POLS-P-502	*POLYMER FEED PUMP NO. 2*	I80-702
~~8~~	~~80-BIOSOLIDS DEWATERING~~	~~00-DS-TNK-400~~	~~*SLUDGE BLEND TANK*~~	~~I00-704~~
9	80-BIOSOLIDS DEWATERING	80-POLS-ME-502	*POLYMER PREPERATION SYSTEM NO.2 (POLYBLEND)*	I80-703
10	80-BIOSOLIDS DEWATERING	80-BS-P-404	SLUDGE FEED PUMP NO. 1	I80-704
11	80-BIOSOLIDS DEWATERING	80-BS-P-405	SLUDGE FEED PUMP NO. 2	I80-704
12	80-BIOSOLIDS DEWATERING	80-DWS-SCP-401	SLUDGE DEWATERING SCREW PRESS NO. 1	I80-706
13	80-BIOSOLIDS DEWATERING	80-DWS-SCP-402	SLUDGE DEWATERING SCREW PRESS NO. 2	I80-705
14	80-BIOSOLIDS DEWATERING	80-WAS-P-403	SLUDGE GRINDER	I80-704
15	80-BIOSOLIDS DEWATERING	80-DWS-CONV-401	DEWATERED SLUDGE SCREW CONVEYOR	I80-706
16	80-BIOSOLIDS DEWATERING	80-DWS-CONV-402	DEWATERED SLUDGE SCREW CONVEYOR	I80-705
17				
18	88-PLANT DRAIN PUMP STA NO. 2	88-FM-P-101	PLANT DRAIN PS #2 PUMP 1	I88-701
19	88-PLANT DRAIN PUMP STA NO. 2	88-FM-P-102	PLANT DRAIN PS #2 PUMP 2	I88-701

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DEWATERING VALVES

~~80-BS-HV-403~~	~~SLUDGE BLEND TANK OUTLET VALVE~~
80-BS-HV-404	SLUDGE FEED PUMP 80-P-404 SUCTION VALVE
80-BS-HV-405	SLUDGE FEED PUMP 80-P-405 SUCTION VALVE
80-BS-HV-406	SLUDGE FEED PUMPS DISCHARGE CROSS OVER VALVE
80-BS-HV-407	SLUDGE FEED PUMP 80-P-404 DISCHARGE VALVE
80-BS-HV-408	SLUDGE FEED PUMP 80-P-405 DISCHARGE VALVE
80-UW-HV-410	UTILITY WATER FEED TO SCREW PRESS 1
80-UW-HV-411	UTILITY WATER FEED TO SCREW PRESS 1
80-UW-HV-412	UTILITY WATER FEED TO SCREW PRESS 2
80-UW-HV-413	UTILITY WATER FEED TO SCREW PRESS 2
80-UW-HV-420	UW BUILDING SHUT OFF
80-WAS-HV-420	WAS GRINDER INLET VALVE
80-WAS-HV-421	WAS GRINDER OUTLET VALVE
~~80-BS-HV-460~~	~~SLUDGE BLEND TANK INLET VALVE~~
~~80-BS-HV-461~~	~~SLUDGE MIX TANK BYPASS VALVE~~
80-BS-HV-470	PRESSATE VALVE TO SECONDARY EFFLUENT P.S.
80-BS-HV-471	PRESSATE VALVE TO PLANT DRAIN P.S.
80-POLS-HV-520	POLYMER AGE TANK OUTLET VALVE TO POLYMER FEED PUMPS
80-POLS-HV-522	POLYMER SOLUTION TO SCREW PRESS 1
80-POLS-HV-524	POLYMER SOLUTION TO SCREW PRESS 2
80-HWS-HV-526	HOT WATER VALVE TO DRY POLYMER SYSTEM
80-HWS-HV-527	HOT WATER VALVE TO LIQUID POLYMER SYSTEM
80-HWS-HV-528	HOT WATER VALVE TO POLYBLEND SYSTEM
80-POLS-HV-531	POLYMER FEED VALVE TO POLYMER PUMP 1
80-POLS-HV-532	POLYMER FEED VALVE TO POLYMER PUMP 2
80-POLS-HV-534	POLYMER PUMP 1 TO SCREW PRESS 1 VALVE
80-POLS-HV-535	POLYMER PUMP 1 TO SCREW PRESS 2 VALVE
80-POLS-HV-536	POLYMER PUMP 2 TO SCREW PRESS 1 VALVE
80-POLS-HV-537	POLYMER PUMP 2 TO SCREW PRESS 2 VALVE
80-POLS-HV-538	POLYBLEND POLYMER TO SCREW PRESS 1 VALVE
80-POLS-HV-539	POLYBLEND POLYMER TO SCREW PRESS 2 VALVE
80-POLS-HV-540	POLYBLEND POLYMER TO DAY TANK
80-POLS-HV-541	POLYBLEND POLYMER TO SCREW PRESS 1 & 2 VALVE
80-POLS-HV-542	POLYMER PUMP 1 DISCHARGE VALVE
80-POLS-HV-543	POLYMER PUMP 2DISCHARGE VALVE

LAST UPDATED: 6/25/2021
SHEET: 015
DRAWING: G00-015

35

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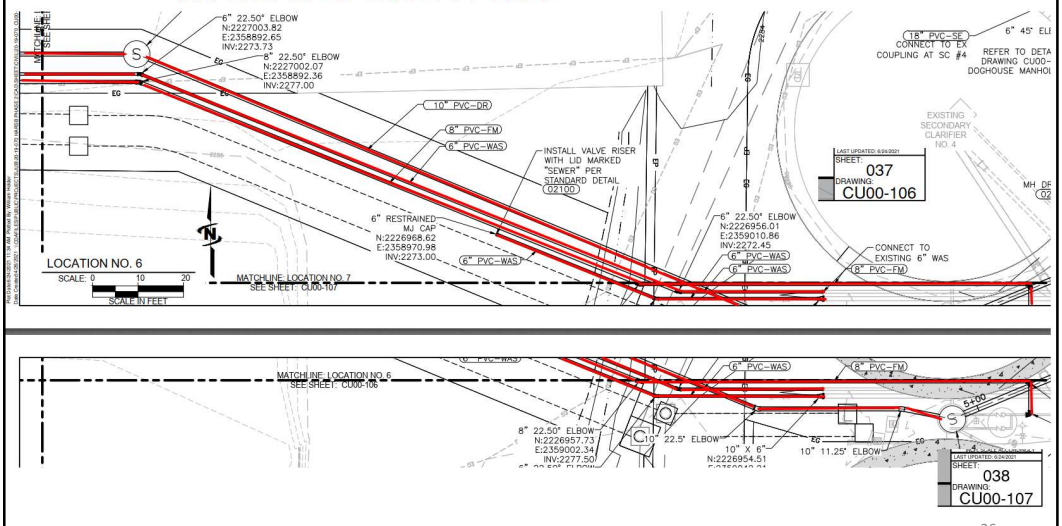
DEWATERING YARD PIPING

REPLACEMENT YARD PIPE LINES



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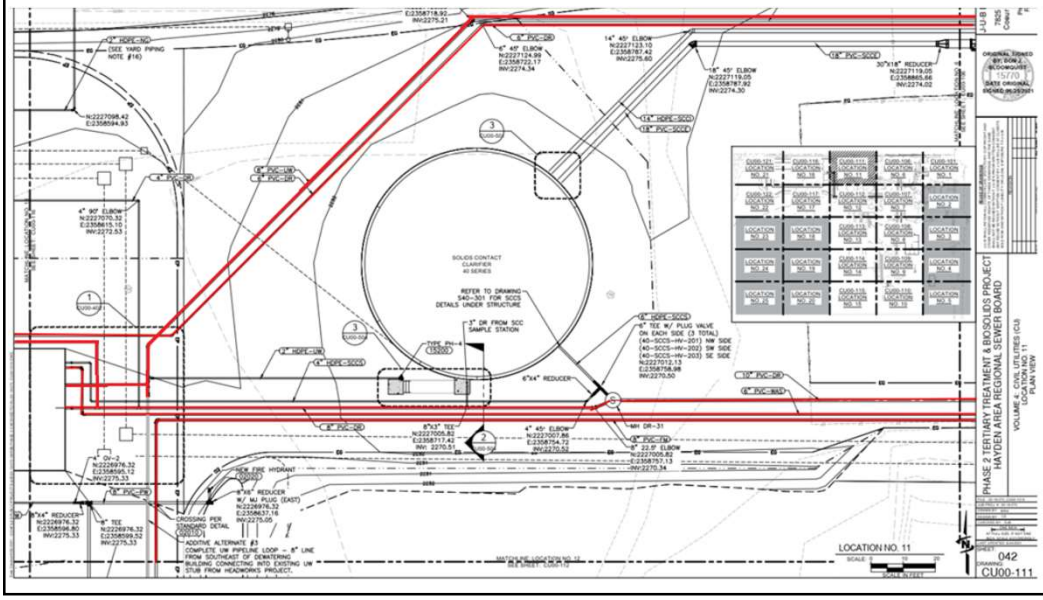
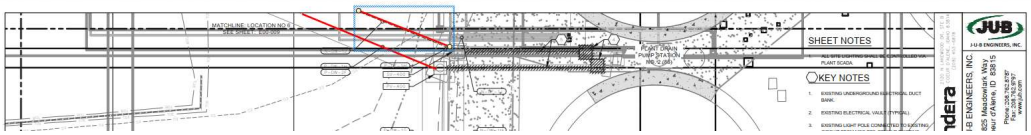
DEWATERING YARD PIPING 2



37

ELECTRICAL / SIGNAL CONDUITS TO DEWATERING BUILDING MCC ROOM



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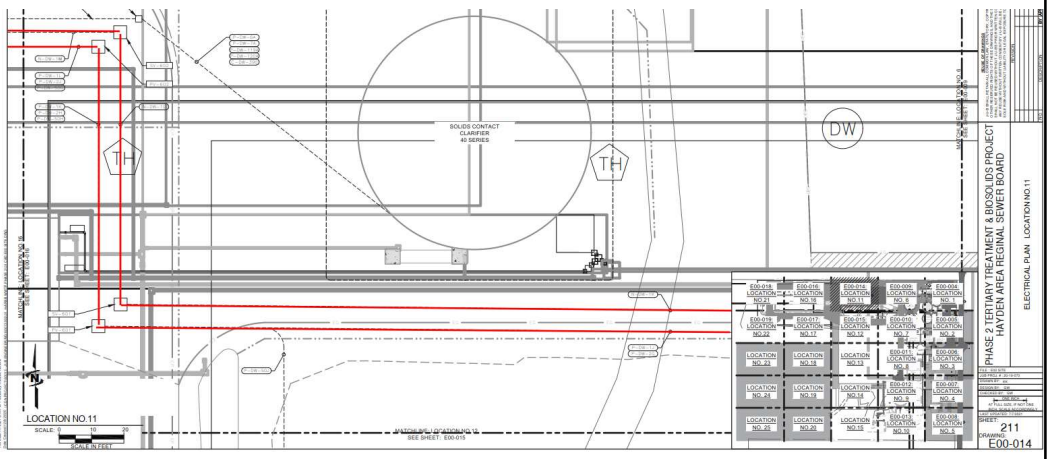
38

ELECTRICAL / SIGNAL CONDUITS TO DEWATERING BUILDING MCC ROOM



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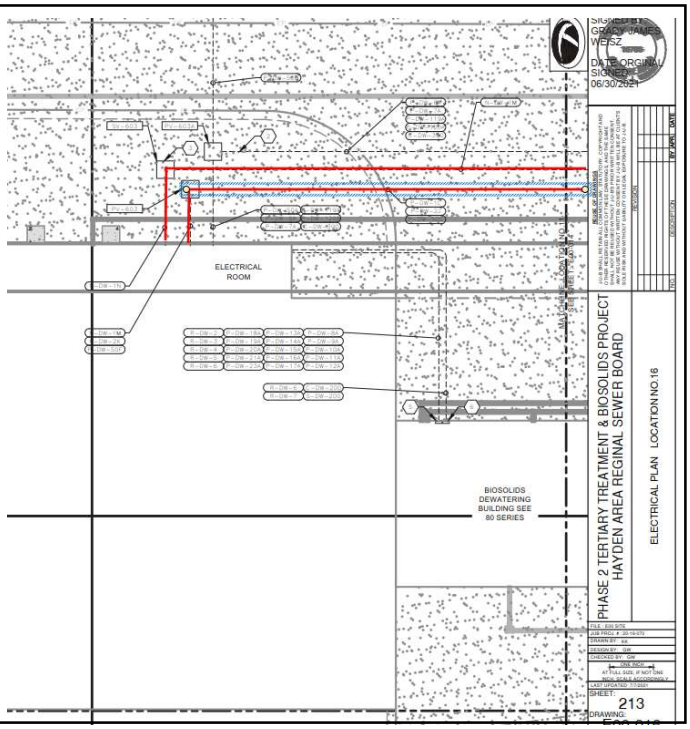
ELECTRICAL / SIGNAL CONDUITS TO DEWATERING BUILDING MCC ROOM



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HARSB REPLACEMENT PHASE 2 PROJECT
ELECTRICAL RELACEMENT DESCRIPTION

FROM SV-400 TO SV-600
FROM PV-400 TO PV-600
FROM PV-600 TO PV-601
FROM SV-600 TO SV-601
FROM SV-601 TO SV-602
FROM PV-601 TO PV-602
FROM PV-602 TO PV-603
FROM SV-602 TI SV-603

DEWATERING CONDUITS AND WIRES FROM SOLAR DRYER MCC ROOM TO DEWATERING EQUIPMENT. BLEND TANK AND SCC WAS PUMP POWER AND SIGNAL CONDUITS AND WIRES DO NOT COUNT AS REPLACEMENT.

MOTOR CONTROL CENTER "MCC-DW" ALL BREAKERS EXCEPT FOR BLEND TANK MIXER, SOLIDS CONTACT CLARIFIER RAKE DRIVE, SOLIDS CONTACT CLARIFIER UNDERFLOW PUMP, SOLIDS CONTACT CLARIFIER IMPELLER DRIVE

AUTOMATIC TRANSFER SWITCH "ATS-DW"
PANEL "PLV-DW2".
TRANSFORMER "TX-DW2"
TRANSFORMER "TX-DW1".

TO POWER JUNCTION BOX "JB-DW-1" AND CONTROL/ SIGNAL JUNCTION BOX "JB-DW-2".

ENCLOSED CIRCUIT BREAKER "ECB-DW-N
ENCLOSED CIRCUIT BREAKER "ECB-DW-E

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Change Order Reviews

1.15 SUBMITTAL LIMITS

A. Two submittals will be permitted for each item in this section at no cost to the Contractor. The two submittals include one initial submittal and one resubmittal.

B. All submittals requiring a third review by the Engineer shall be considered unresponsive and the Owner will charge the Contractor on a Time and Materials basis for the third and all subsequent reviews and all related administrative costs not to exceed $1,000.00 for each resubmittal.

C. All submittals, unless noted otherwise in the Contract Documents, shall be submitted within sixty (60) days from the Notice to Proceed. Those items requiring resubmittal shall be submitted within thirty (30) days from the date of return to Contractor.

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HARSB SUBMITTAL CRITERIA

Data, equipment information or O&M information shall be HARSB project specific. Submittal information that is conflicting, irrelevant, or not specific to the project being provided shall be deleted or whited out to not be visible by the Contractor during the mark-up and prior to submission. Submittal information not conforming to this standard shall be return for correction, resubmittal prior to approval.

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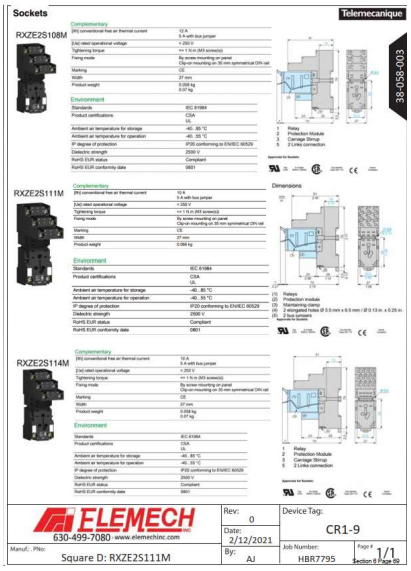
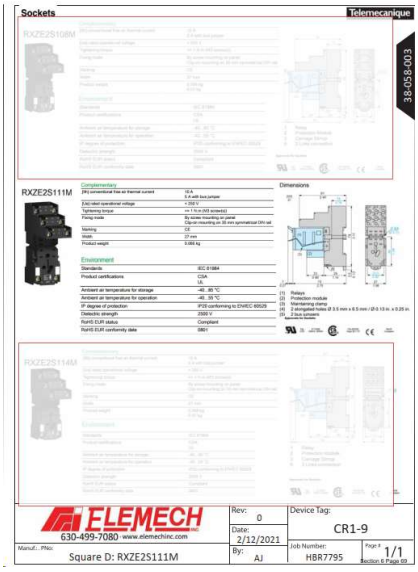
HARSB SUBMITTAL EXAMPLE

VENDOR'S ORIGINAL



CONTRACTOR'S MARKUP FOR HARSB SUBMITTAL



BLANK OUT VENDOR INFORMATION THAT DOES NOT APPLY TO THE HARSB PROJECT

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HARSB TOXIC MANAGEMENT PLAN

- **Application of best management practices (BMPs) to industrial and commercial sewer customers Procurement Changes to Minimize PCBs and 2,3,7,8 TCDD**
- The plant has established a purchasing standard that equipment and materials that may contain PCB's be certified to have less than 3 parts per billion PCB levels. Equipment like a crescent wrench are not include in the PCB requirements.
- The next phase of construction to meet the Spokane River dissolved oxygen TMDL will begin in 2020. The general contractor and suppliers will be required to certify that materials used in the construction be certified to be PCB free or below 3 parts per billion.

General Contactors will be required to provide documentation that materials like caulk, paints, lubricants, cooling fluids and similar materials are certified to be PCB free or below 3 parts per billion using EPA Test Method 8082A.

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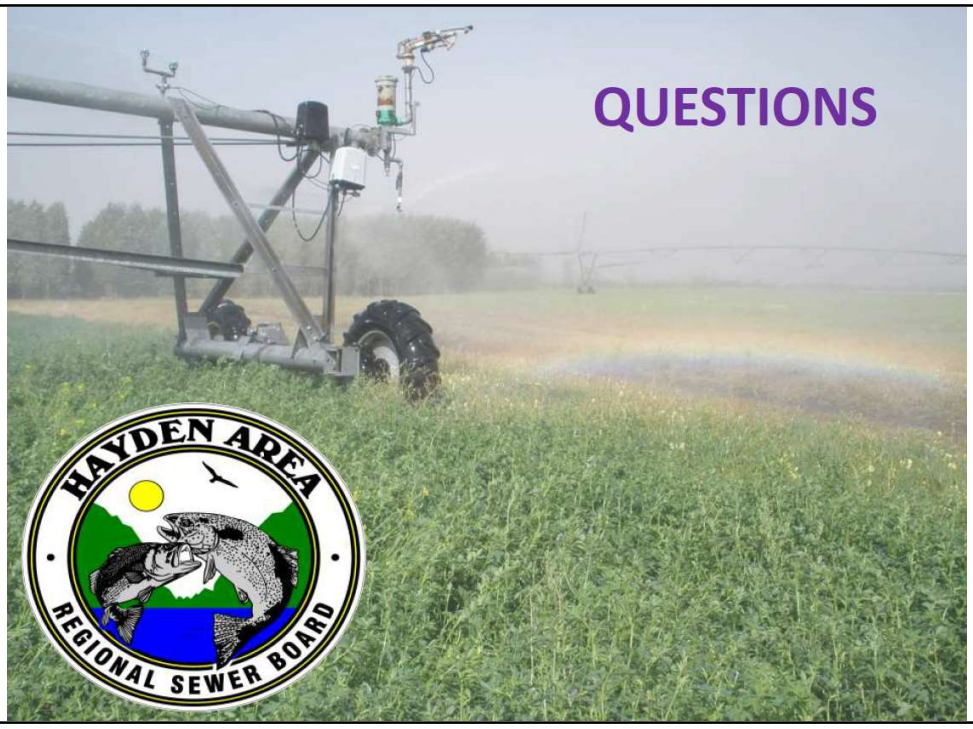

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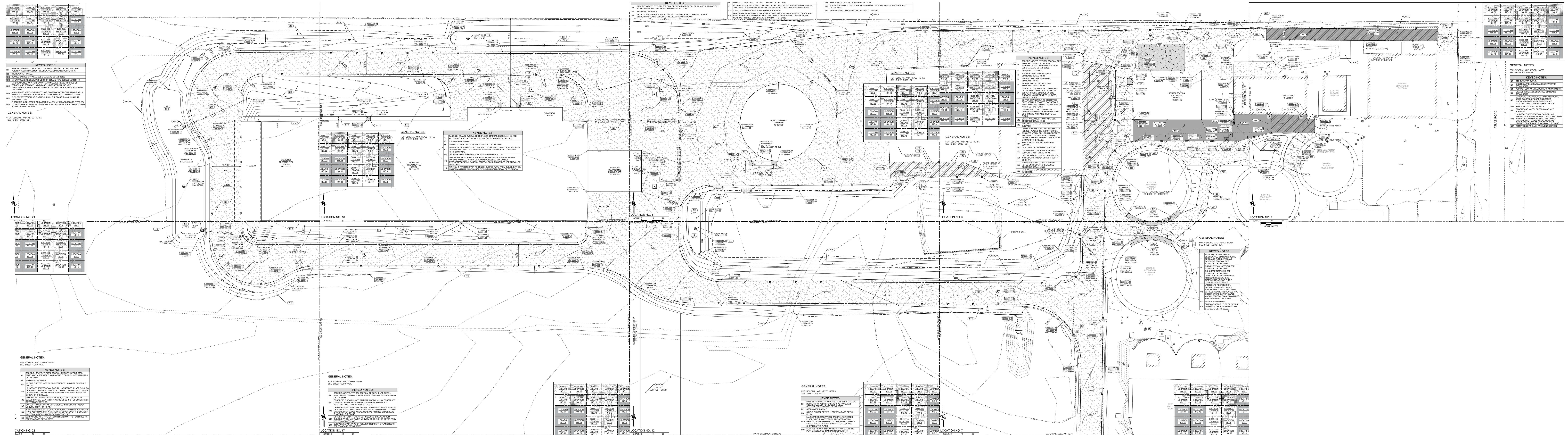
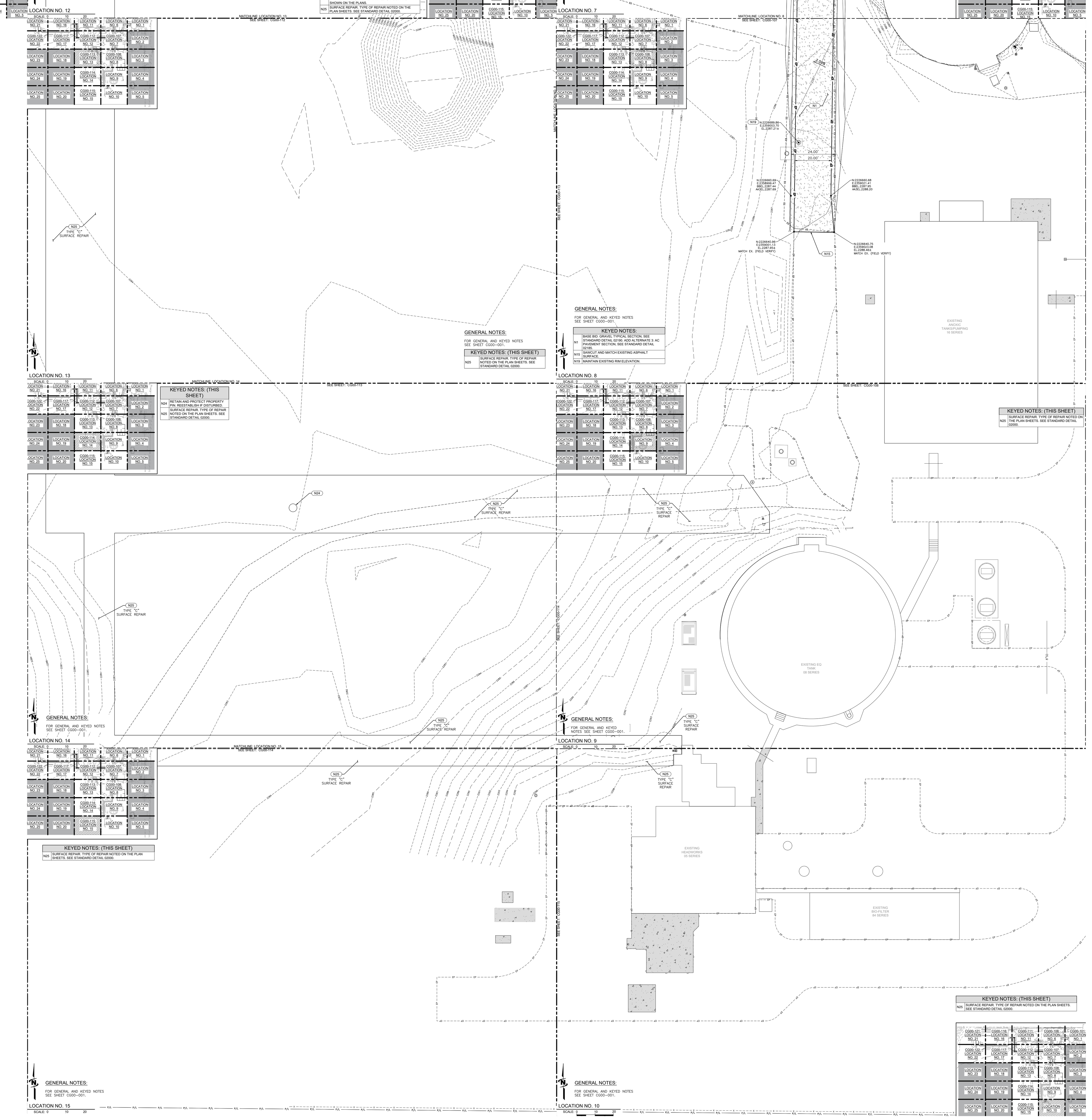
ATTACHMENT -
Combined Site Civil PDF

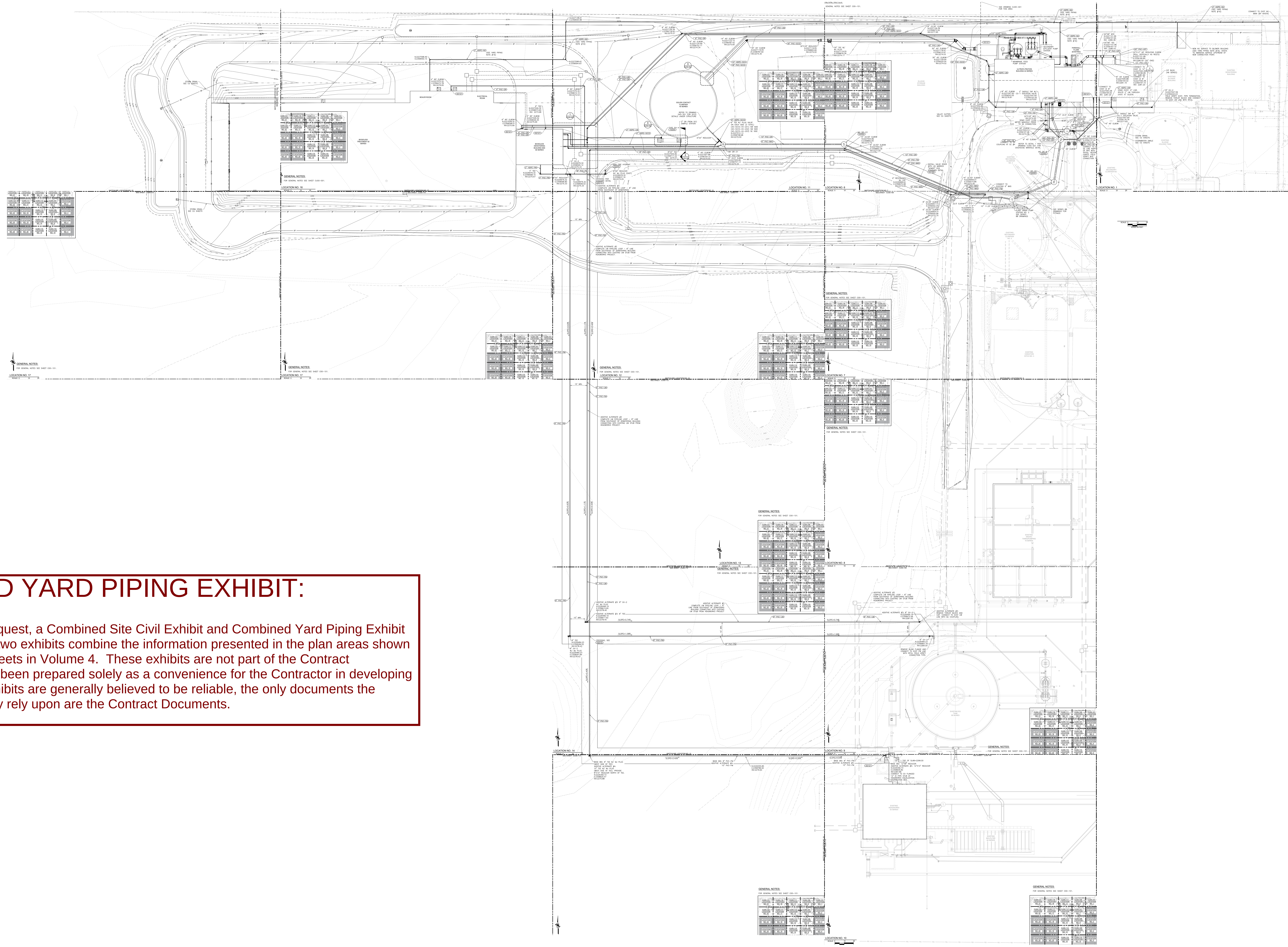




COMBINED SITE CIVIL EXHIBIT:

At the Contractors' request, a Combined Site Civil Exhibit and Combined Yard Piping Exhibit are attached. These two exhibits combine the information presented in the plan areas shown on the CG and CU sheets in Volume 4. These exhibits are not part of the Contract Documents and have been prepared solely as a convenience for the Contractor in developing bids. While these exhibits are generally believed to be reliable, the only documents the Contractor may legally rely upon are the Contract Documents.

ATTACHMENT -
Combined Yard Piping PDF



COMBINED YARD PIPING EXHIBIT:

At the Contractors' request, a Combined Site Civil Exhibit and Combined Yard Piping Exhibit are attached. These two exhibits combine the information presented in the plan areas shown on the CG and CU sheets in Volume 4. These exhibits are not part of the Contract Documents and have been prepared solely as a convenience for the Contractor in developing bids. While these exhibits are generally believed to be reliable, the only documents the Contractor may legally rely upon are the Contract Documents.