



November 2, 2022

To: All Planholders

**RE: W.O. 22-: West End Intake/Pump Station  
City of Billings Public Works Department, Billings, Montana**

Attached is Addendum No. 3 for the above-referenced project. On the Bid Form, Specification Section 00300, acknowledge this addendum by writing the number and date in the first available blank line in Paragraph 3.01 A.

Sincerely,

HDR ENGINEERING, Inc.

A handwritten signature in blue ink that reads "Craig Habben".

Craig Habben  
*Project Manager*

cc: File

**ADDENDUM NO. 3**  
**TO**  
**CONTRACT DOCUMENTS AND SPECIFICATIONS**  
**FOR**  
**W.O. 22-19, WEST END WATER INTAKE/PUMP STATION**  
**FOR**  
**CITY OF BILLINGS, MONTANA**  
**PUBLIC WORKS DEPARTMENT**

Prepared by: HDR Engineering, Inc.  
970 South 29<sup>th</sup> Street West  
Billings, MT 59102

Owner: City of Billings  
Public Works Department

Date: November 2, 2022

**TO ALL PLANHOLDERS:**

This addendum shall become a part of the Contract Documents as if originally included. The Bidders shall acknowledge receipt of the Addendum on the Bid Form.

The Specifications and Drawings shall be modified as required by the following items:

**SPECIFICATIONS**

AD-3 Item 1. Section 01 61 05, Page 1, Line 29. ADD the following to the Acceptable Manufacturers of 43 24 05 – Vertically Suspended Centrifugal Pumps Turbine Pump.

“- Johnston Pump”.

AD-3 Item 2. Section 03 31 30, Page 2, Line 38. ADD the following:

“For the purposes of this project, all concrete placed at and below Elevation 3205.00 shall be considered Water-Bearing Concrete. Water-Bearing Concrete and Normal Weight Concrete are synonymous.”

AD-3 Item 3. Section 03 31 30, Page 4, Line 24. Add the following:

“or Type 1L.”

AD-3 Item 4. Section 03 31 30, Page 5, Line 18. ADD the following:  
“and Water-Bearing Concrete.”

AD-3 Item 5. Section 03 31 30, Page 9, Line 39. DELETE “0.032” and REPLACE with “0.048”.

AD-3 Item 6. Section 03 31 30, Page 10, Table 1. Associated with the requirements for Lightweight concrete topping, DELETE “4000 psi” and REPLACE with “3000 psi”.

AD-3 Item 7. Section 03 31 31, Page 2, Line 40. INSERT the following after Line 40.  
“B. Water-Bearing Concrete: Any concrete surface to be in contact with process fluids during normal operation of the facility, including, but not limited to, tank, channels, wet wells and distribution chambers. For the purposes of this project, all concrete placed at and below Elevation 3205.00 shall be considered Water-Bearing Concrete.”

AD-3 Item 8. Section 03 31 31, Page 11, Line 8. DELETE “72” and REPLACE with “168”.

AD-3 Item 9. Section 11 94 00, Exhibit A. DELETE this exhibit in its entirety and REPLACE with the attached 11 94 00 – Exhibit A: Intake Screens, Inc.

AD-3 Item 10. Section 40 05 51, Page 9, Line 33. ADD the following after “PH”  
“and 120 V, 1 PH for IPS-MODV-FLW-1, IPS-MODV-FLW-2, IPS-MODV-FLW-3, IPS-MODV-FLW-4, IPS-MODV-FLW-5”

AD-3 Item 11. Section 40 05 51, Page 9, Line 33. ADD the following after “PH”  
“, for IPS-MODV-STRNR only”

AD-3 Item 12. Section 40 05 51, Page 9, Line 35. DELETE “ROMpak” and replace with “RCEL Series”.

AD-3 Item 13. Section 40 05 51, Page 12, last row of table. DELETE “Modulating Type” and replace with “Open/Close Type”.

## **DRAWINGS**

AD-3 Item 14. Sheet 00Y001, KEY NOTES. DELETE Key Note No. 7 and all associated call-outs.

AD-3 Item 15. Sheet 00S001, GENERAL STRUCTURAL NOTES CONCRETE, ADD the following to Note C13. MACROSYNTHETIC FIBERS

“MACROSYNTHETIC FIBERS ARE ALSO REQUIRED FOR ALL WATER-BEARING CONCRETE, WHICH IS DEFINED AS ALL CONCRETE PLACED AT OR BELOW ELEVATION 3205.00.”

AD-3 Item 16. Sheet 00C007. DELETE this sheet in its entirety and REPLACE with the attached sheet.

AD-3 Item 17. Sheet 00C008. DELETE this sheet in its entirety and REPLACE with the attached sheet.

AD-3 Item 18. Sheet 00C010, FABRIC ENCAPSULATED SOIL (FES) CONSTRUCTION DETAIL 3, GENERAL NOTES ON SECURING FABRIC FOR FES LIFT TREATMENT: Note 1. ADD the following to Note 1:

“OUTER WOVEN COIR FABRIC LAYER TO BE EAST COAST EC-7Y OR EQUAL, INNER NON-WOVEN COIR FABRIC LAYER TO BE EAST COAST ECC-2B OR EQUAL.”

AD-3 Item 19. Sheet 01D001. DELETE this sheet in its entirety and REPLACE with the attached sheet.

This addendum is made part of the specifications and contract documents and shall be noted on the Bid Form. Bidders must acknowledge receipt and acceptance of this Addendum No. 3 by indicating such acknowledge in the Bid Form. FAILURE TO ACKNOWLEDGE RECEIPT AND ACCEPTANCE MAY RESULT IN REJECTION OF THE BID.

HDR ENGINEERING, INC.

A handwritten signature in blue ink that reads "Craig Habben, P.E." The signature is fluid and cursive, with "Craig" and "Habben" connected by a line, and "P.E." in a smaller, separate flourish.

Craig Habben, P.E.

DATE: November 2, 2022

**11 94 00 - Exhibit A: Intake Screens, Inc.**

**REVISED PER ADDENDUM NO. 3**

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8417 RIVER ROAD, SACRAMENTO, CA 95832  
 WWW.ISI-SCREENS.COM  
 OFFICE: (916) 665-2727

DATE: 10/27/2022  
 QUOTE NO.: 21-1700-01  
 VALID UNTIL: 4/15/2023  
 PREPARED BY: John Burnett  
[jburnett@isi-screens.com](mailto:jburnett@isi-screens.com)  
 Direct: (435) 640-9147

<b>PROJECT</b>	<b>City of Billings West End Intake Facility (QTY 1 Tee Screen System)</b>
<b>CONTACT</b>	Jacob Ostrander, P.E.
<b>COMPANY</b>	HDR
<b>ADDRESS</b>	970 S 29th Street West, Billings, MT 59102
<b>PHONE</b>	406-651-6612
<b>EMAIL</b>	<a href="mailto:jacob.ostrander@hdrinc.com">jacob.ostrander@hdrinc.com</a>

**COMMENTS OR SPECIAL INSTRUCTIONS:**

Quote is based off of the attached conceptual design drawings and includes quantity one (1) retrievable wedgewire tee screen unit, track assembly with slide gate and hoist, and project services. Screen system designed with a total flow capacity of  $\approx$ 25.5 cfs ( $\approx$ 16.5 MGD) at 0.5 fps slot velocity using #69V wedgewire with 1.75 mm slot openings for  $\approx$ 50% open area. Major steel items to be produced and made in whole or substantial part in the United States, its territories, or possessions and subject to material availability. Screen system controls, including pressure differential monitoring system, by others.

ITEM	QTY	DESCRIPTION
1	1	<b>T36-66EA-R SCREEN UNIT:</b> Brush-cleaned tee screen unit assembly includes two wedgewire cylinders each measuring 36-inches in diameter and 66-inches long fabricated from type 304 stainless steel using #69V wedgewire (1.75-mm wire width) and 1.75-mm slot openings for $\approx$ 50% open area. Screen unit to include a central manifold with internal suction pipes for flow distribution, brush cleaning system with internal and external brushes and submersible electric drive assembly, screen rotation sensors, and lifting provisions. Screen unit will be designed for mounting to a vertical retrieval track and to seal over the intake opening. Screen unit to have a maximum flow capacity of $\approx$ 25.5 cfs at 0.5 fps slot velocity and to weigh $\approx$ 3,200 lbs.
2	1	<b>RETRIEVAL SYSTEM:</b> Retrieval track assembly to be fabricated from type 304 stainless steel and measure $\approx$ 50-inches wide by 29-feet tall. Track assembly to include a sealing surface to screen unit's central manifold and type 304 stainless steel slide gate with electric actuator to provide a fish-tight seal when the screen is in the raise position. Track assembly to include separate type 304 stainless steel thimble to be cast in concrete wall. Anchoring hardware and isolation materials to be provided by ISI. Retrieval system to include winch system with limit switches (top and mid-travel) and locking pins and cable carrier system with linked umbilical terminating in track mounted junction box. Track, winch, and cable carrier assembly with junction box to weigh $\approx$ 4,100 pounds. Thimble to weigh $\approx$ 220 lbs.
3	1	<b>CONTROLS:</b> Control system to be design, fabricated, and installed by others. ISI will be available for controls consultation based on a Time & Materials contract. This budgetary estimate assumes the Time & Materials contract is \$5,000. Actual Time & Materials contract value to be determined by contractor.
4	1	<b>PROJECT SERVICES:</b> Design services, engineering analysis, project submittals, factory acceptance testing, Operations and Maintenance Manual, and two-year warranty.
5	1	<b>DELIVERY:</b> ISI to deliver all ISI supplied equipment to the site; offloading by others.
6	1	<b>SYSTEM COMMISSIONING:</b> Startup and operator training; this does not include any installation, construction, or on-site lifting of material or equipment; includes one (1) ISI staff member on site for a maximum of three (3) consecutive, eight (8) hour workdays including any site-required training; on-site work is to be completed on Tuesday through Thursday to accommodate weekday travel; additional workdays will be provided at a cost of \$1,500/day plus travel expenses.

*Terms:*  
 LEAD TIME: 40 Weeks  
 SHIPPING: FOB Sacramento, CA  
 SALES TAX: TBD

<b>SUBTOTAL</b>	\$ 469,000.00
<b>TAX RATE</b>	TBD
<b>SALES TAX</b>	TBD
	\$ 469,000.00

8417 RIVER ROAD, SACRAMENTO, CA 95832  
 WWW.ISI-SCREENS.COM  
 OFFICE: (916) 665-2727

DATE: 10/27/2022  
 QUOTE NO.: 21-1700-02  
 VALID UNTIL: 4/15/2022  
 PREPARED BY: John Burnett  
[jburnett@isi-screens.com](mailto:jburnett@isi-screens.com)  
 Direct: (435) 640-9147

<b>PROJECT</b>	<b>City of Billings West End Intake Facility (QTY 2 Tee Screen Systems)</b>
<b>CONTACT</b>	Jacob Ostrander, P.E.
<b>COMPANY</b>	HDR
<b>ADDRESS</b>	970 S 29th Street West, Billings, MT 59102
<b>PHONE</b>	406-651-6612
<b>EMAIL</b>	<a href="mailto:jacob.ostrander@hdrinc.com">jacob.ostrander@hdrinc.com</a>

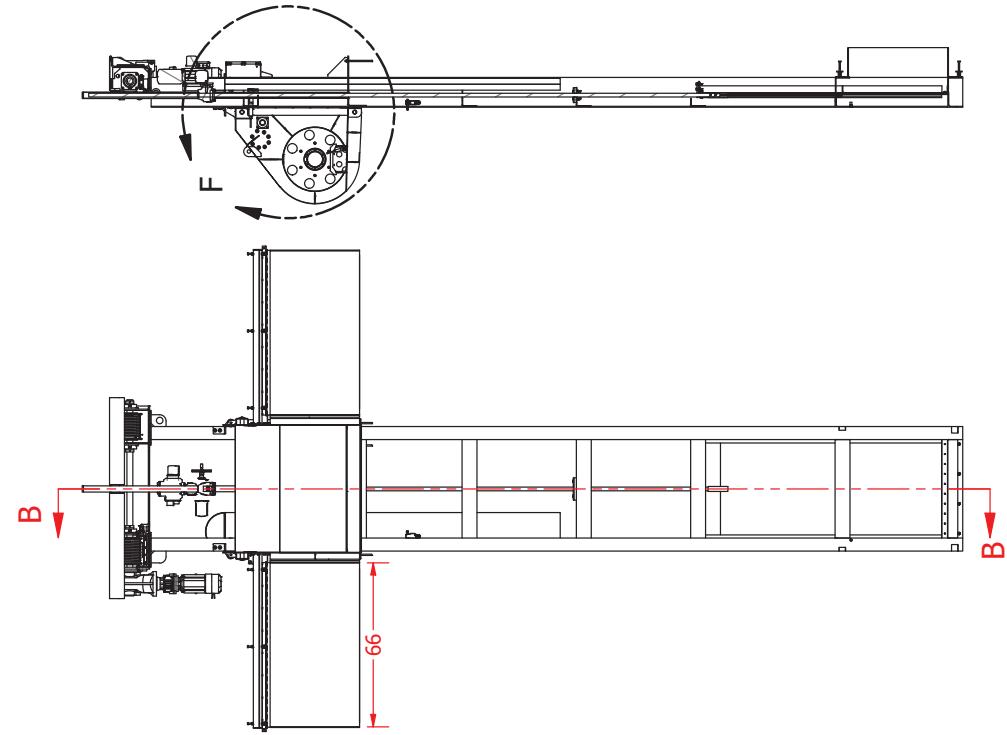
**COMMENTS OR SPECIAL INSTRUCTIONS:**

Quote is based off of the attached conceptual design and includes quantity two (2) retrievable wedgewire tee screen units, track assemblies with slide gates and hoists, and project services. Screen system designed with a total flow capacity of ≈51 cfs (≈33 MGD) at 0.5 fps slot velocity using #69V wedgewire with 1.75 mm slot openings for ≈50% open area. Major steel items to be produced and made in whole or substantial part in the United States, its territories, or possessions and subject to material availability. Screen system controls, including pressure differential monitoring system, by others.

ITEM	QTY	DESCRIPTION
1	2	<b>T36-66EA-R SCREEN UNIT:</b> Brush-cleaned tee screen unit assembly includes two wedgewire cylinders each measuring 36-inches in diameter and 66-inches long fabricated from type 304 stainless steel using #69V wedgewire (1.75-mm wire width) and 1.75-mm slot openings for ≈50% open area. Screen unit to include a central manifold with internal suction pipes for flow distribution, brush cleaning system with internal and external brushes and submersible electric drive assembly, screen rotation sensors, and lifting provisions. Screen unit will be designed for mounting to a vertical retrieval track and to seal over the intake opening. Screen unit to have a maximum flow capacity of ≈25.5 cfs at 0.5 fps slot velocity and to weigh ≈3,200 lbs.
2	2	<b>RETRIEVAL SYSTEM:</b> Retrieval track assembly to be fabricated from type 304 stainless steel and measure ≈50-inches wide by 29-feet tall. Track assembly to include a sealing surface to screen unit's central manifold and type 304 stainless steel slide gate with electric actuator to provide a fish-tight seal when the screen is in the raise position. Track assembly to include separate type 304 stainless steel thimble to be cast in concrete wall. Anchoring hardware and isolation materials to be provided by ISI. Retrieval system to include winch system with limit switches (top and mid-travel) and locking pins and cable carrier system with linked umbilical terminating in track mounted junction box. Track, winch, and cable carrier assembly with junction box to weigh ≈4,100 pounds. Thimble to weigh ≈220 lbs.
3	1	<b>CONTROLS:</b> Control system to be design, fabricated, and installed by others. ISI will be available for controls consultation based on a Time & Materials contract. This budgetary estimate assumes the Time & Materials contract is \$5,000. Actual Time & Materials contract value to be determined by contractor.
4	1	<b>PROJECT SERVICES:</b> Design services, engineering analysis, project submittals, factory acceptance testing, Operations and Maintenance Manual, and two-year warranty.
5	1	<b>DELIVERY:</b> ISI to deliver all ISI supplied equipment to the site; offloading by others.
6	1	<b>SYSTEM COMMISSIONING:</b> Startup and operator training; this does not include any installation, construction, or on-site lifting of material or equipment; includes one (1) ISI staff member on site for a maximum of three (3) consecutive, eight (8) hour workdays including any site-required training; on-site work is to be completed on Tuesday through Thursday to accommodate weekday travel; additional workdays will be provided at a cost of \$1,500/day plus travel expenses.

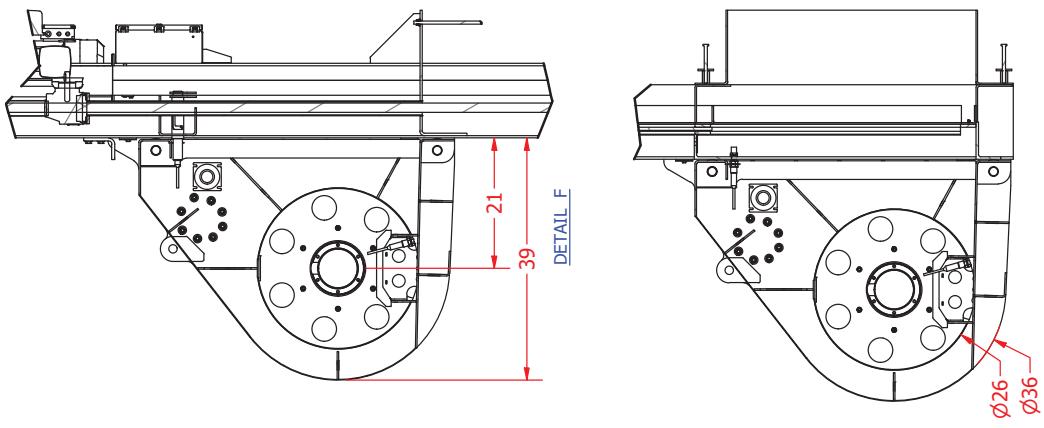
*Terms:*  
 LEAD TIME: 40 Weeks  
 SHIPPING: FOB Sacramento, CA  
 SALES TAX: TBD

<b>SUBTOTAL</b>	\$ 846,000.00
<b>TAX RATE</b>	TBD
<b>SALES TAX</b>	TBD
	\$ 846,000.00

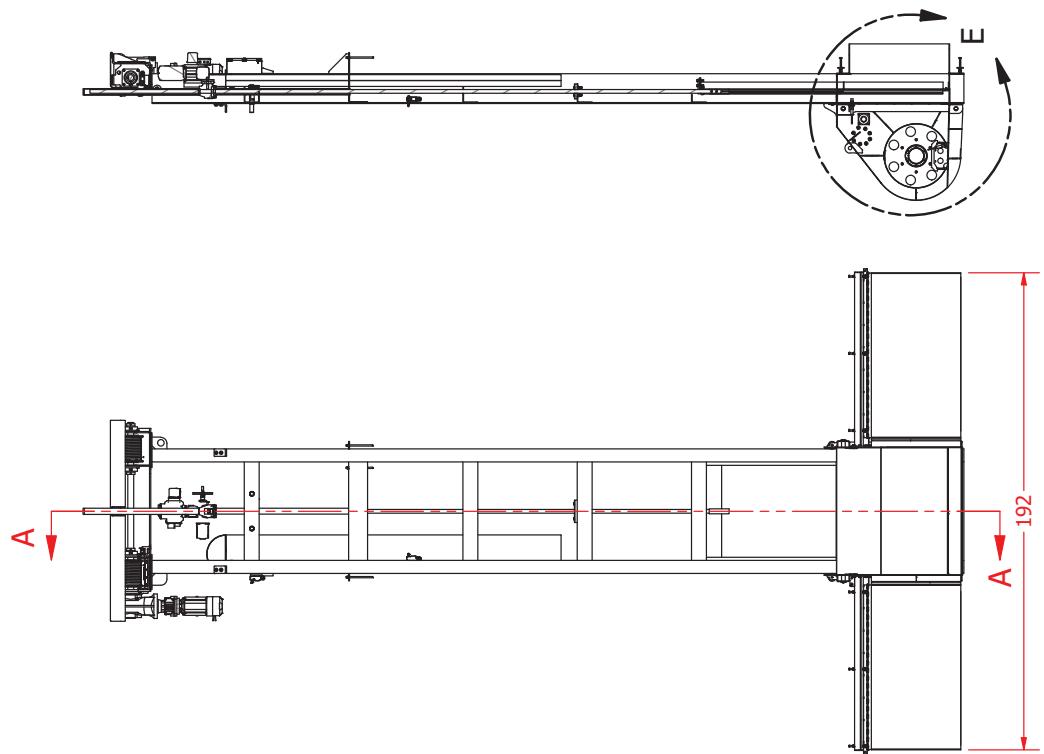


SECTION B-B

VIEW - SCREEN RAISED



DETAIL E



VIEW - SCREEN LOWERED

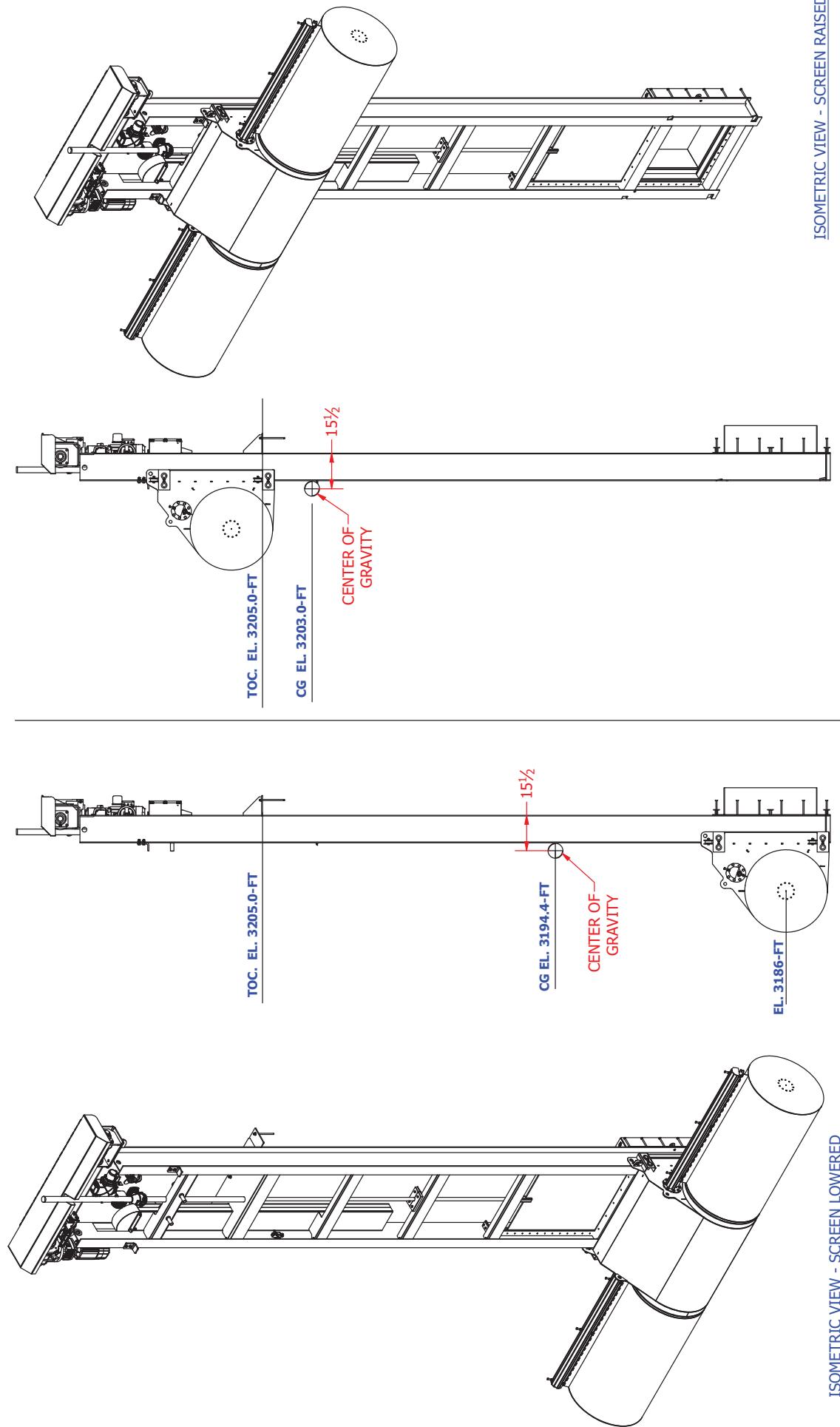
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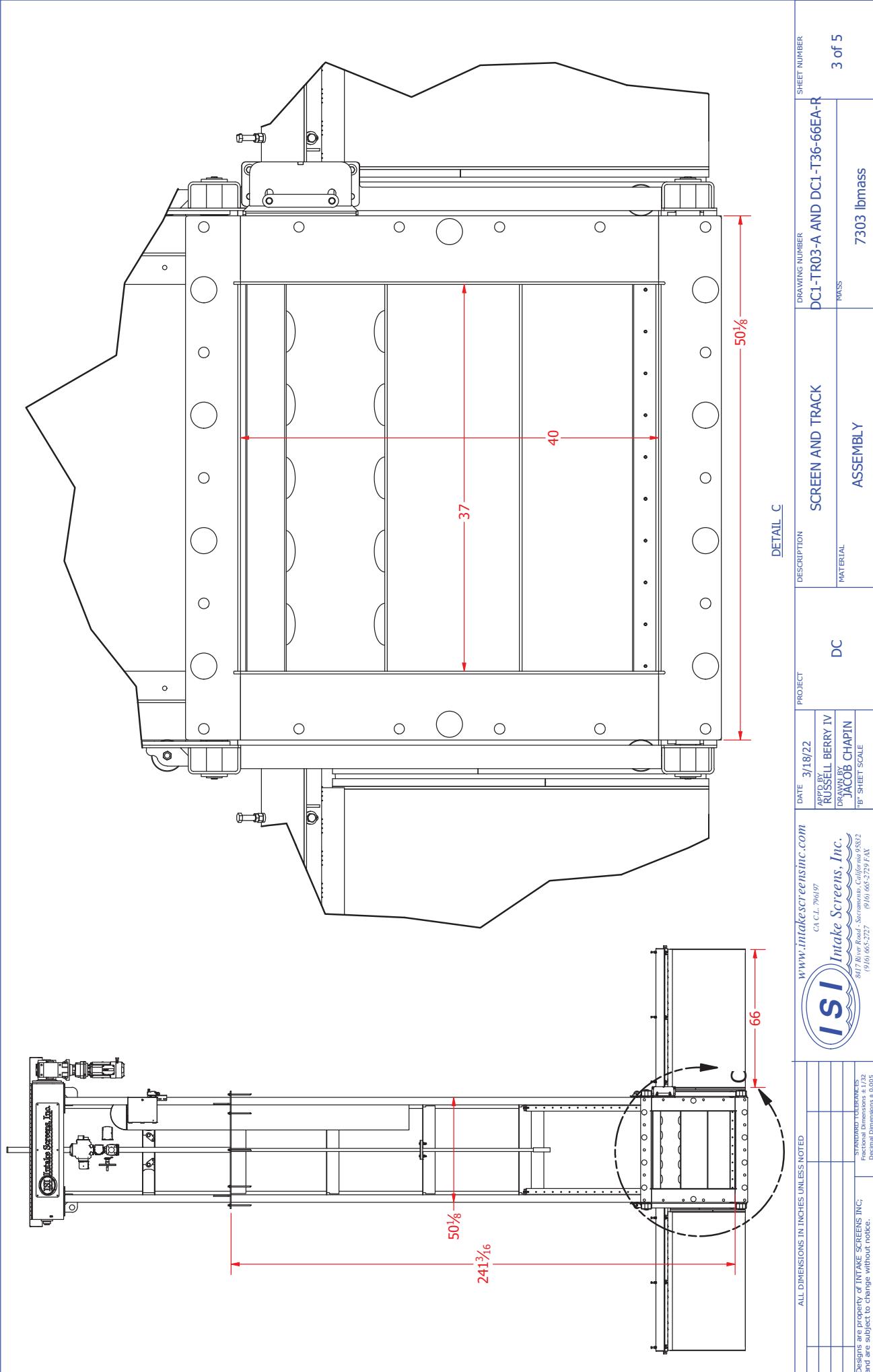


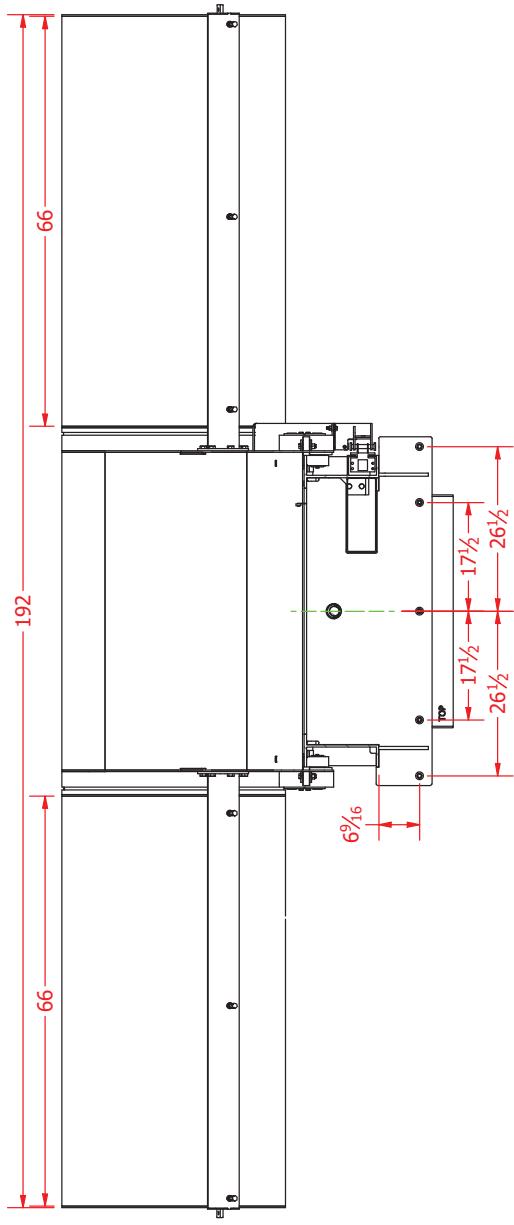
REV	DESCRIPTION	DATE	APPROVED
ALL DIMENSIONS IN INCHES UNLESS NOTED			
		3/18/22	PROJECT
		SPD BY RUSSELL BERRY IV	SCREEN AND TRACK
		DRAWN BY JACOB CHAPIN	MATERIAL
		"B" SHEET SCALE	ASSEMBLY

STANDARD TOLERANCES
Fractional Dimensions $\pm 1/32$
Decimal Dimensions $\pm 0.005$
Designs are property of INTAKE SCREENS INC and are subject to change without notice.

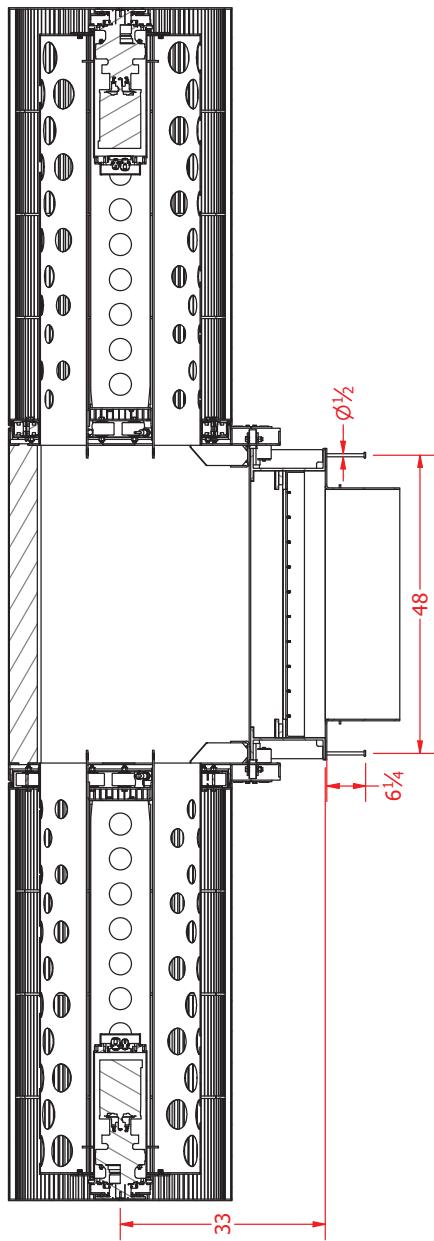
DRAWING NUMBER	DC1-TRO3-A AND DC1-T36-66EA-R	SHEET NUMBER	1 of 5
MASS	7303 lbmass		



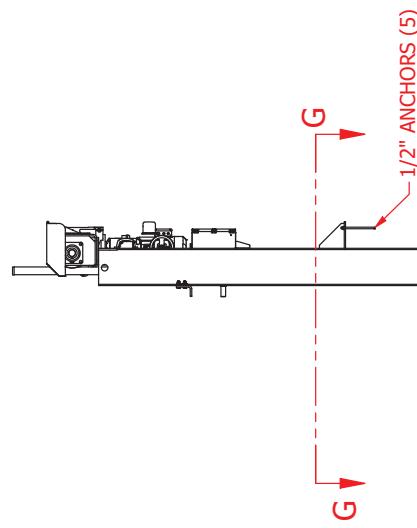




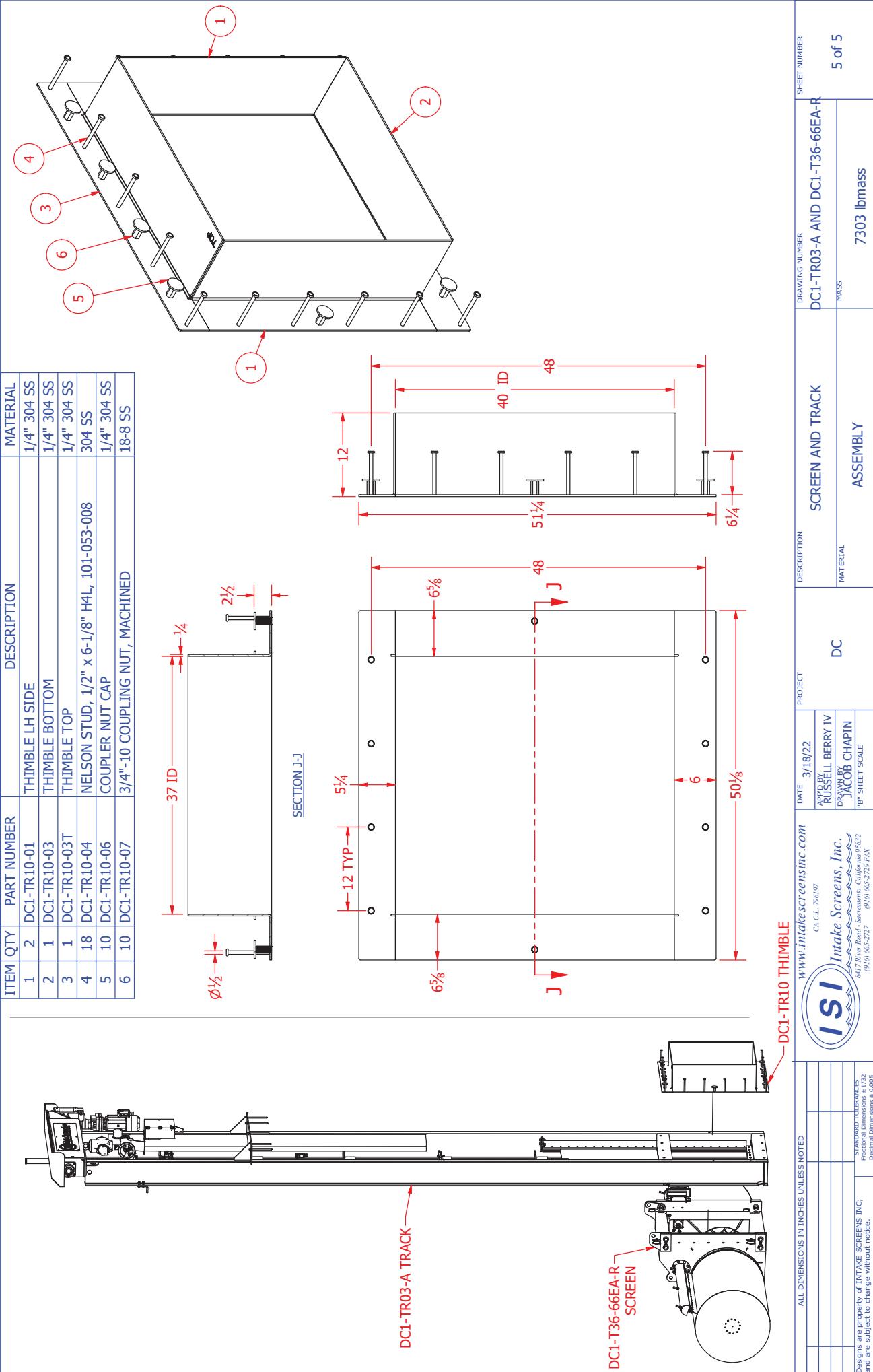
SECTION G-G



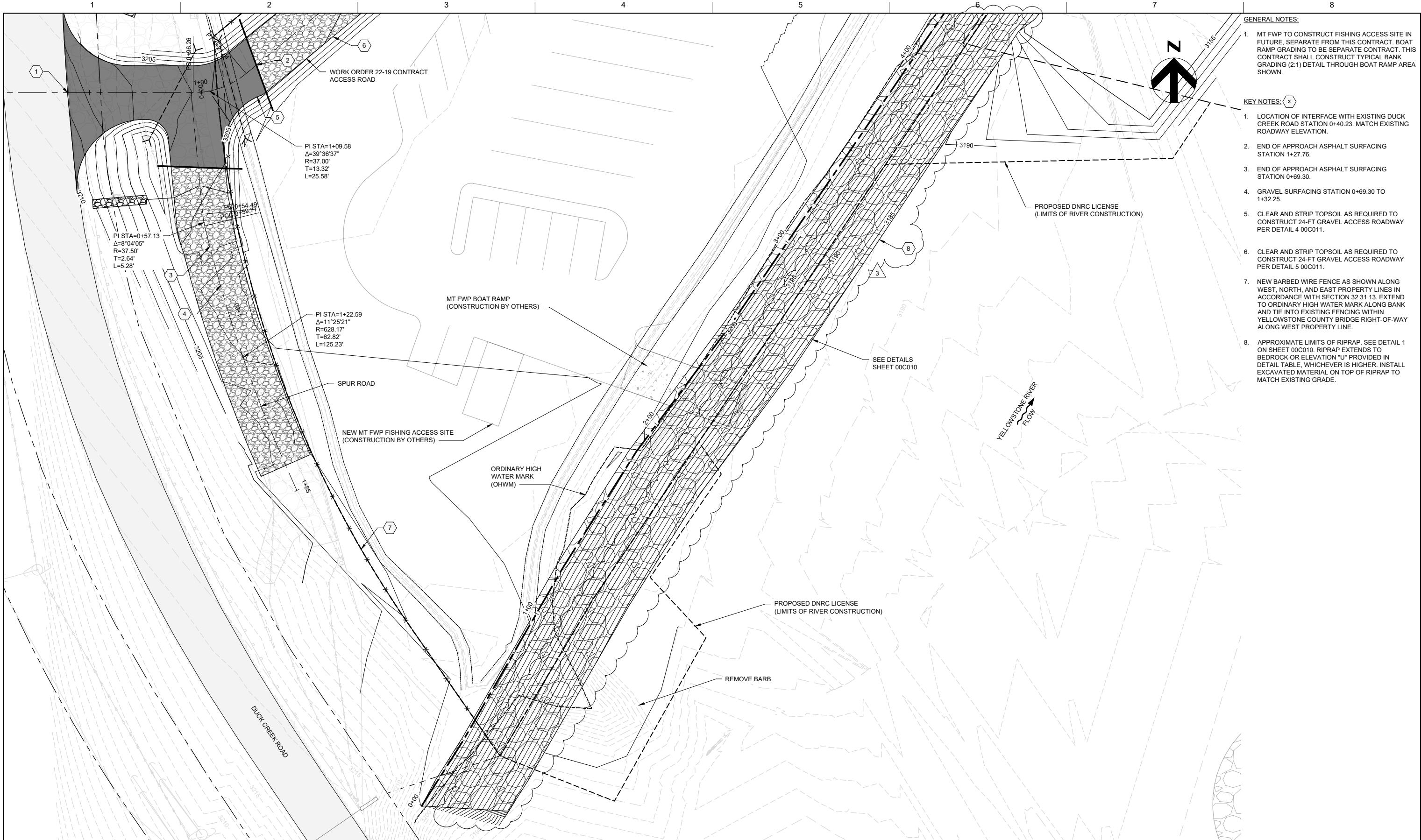
SECTION H-H



DRAWING NUMBER		SHEET NUMBER	
DC1-TR03-A AND DC1-T36-66EA-R		4 of 5	
PROJECT	3/18/22	DESCRIPTION	SCREEN AND TRACK
BY	RUSSELL BERRY IV	MATERIAL	ASSEMBLY
DRAWN BY	JACOB CHAPIN	MASS	7303 lbmass
"B" SHEET SCALE			
 www.intakescreensinc.com CA C.L. 796137 801 River Road, Sacramento, California 95812 (916) 665-2727		STANDARD TOLERANCES	STANDARD TOLERANCES
Designs are property of INTAKE SCREENS INC and are subject to change without notice.		Fractional Dimensions $\pm 1/32$	Decimal Dimensions $\pm 0.005$



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PROJECT MANAGER C. HABEN		
CIVIL	J. HILLIUS	
STRUCTURAL	T. HAMLIN	
ARCHITECTURAL	J. RICKERT	
PROCESS	J. OSTRANDER	
MECHANICAL	R. DALRYMPLE	
ELECTRICAL	L. KIRMEYER	
INSTRUMENTATION	D. BEST	
PROJECT NUMBER	10126753	
ISSUE	DATE	DESCRIPTION
3	11/2022	ADDENDUM #3
JULY 2022		ISSUE FOR BID



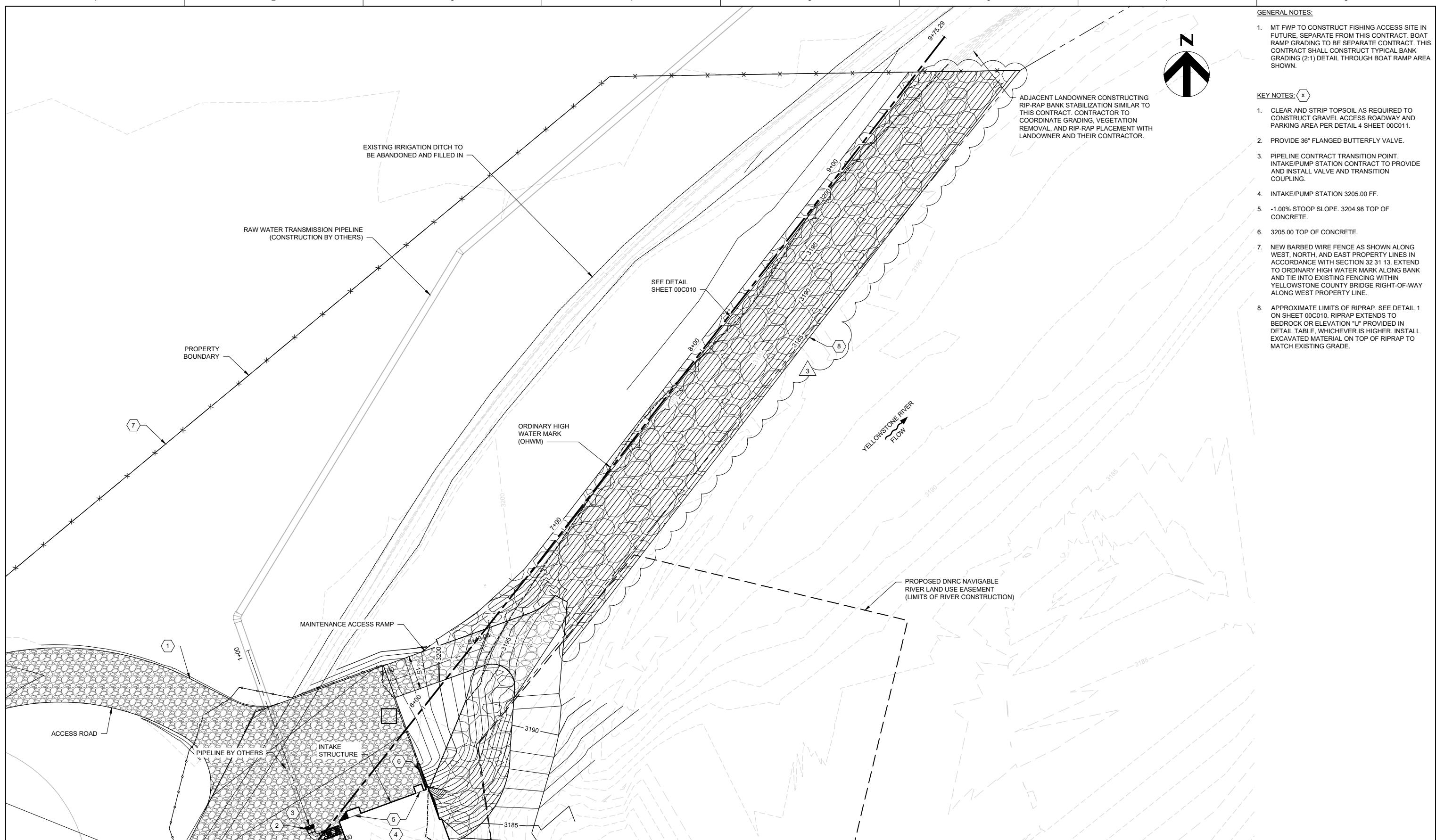
West End Water Facility  
City of Billings, MT  
W.O. 22-19  
West End Water  
Intake/Pump Station  
Project

**CIVIL  
UPSTREAM RIVERBANK GRADING PLAN**

0 1" 2"

FILENAME 00C007.DWG  
SCALE 1" = 20'

**00C007**



			PROJECT MANAGER	J. HILLIUS
			CIVIL	J. HILLIUS
			STRUCTURAL	T. HAMLIN
			ARCHITECTURAL	J. RICKERT
			PROCESS	J. OSTRANDER
			MECHANICAL	R. DALRYMPLE
			ELECTRICAL	L. KIRMEYER
			INSTRUMENTATION	D. BEST
			PROJECT NUMBER	10126753
3	11/2022	ADDENDUM #3		
JULY 2022 ISSUE FOR BID				
ISSUE	DATE	DESCRIPTION		



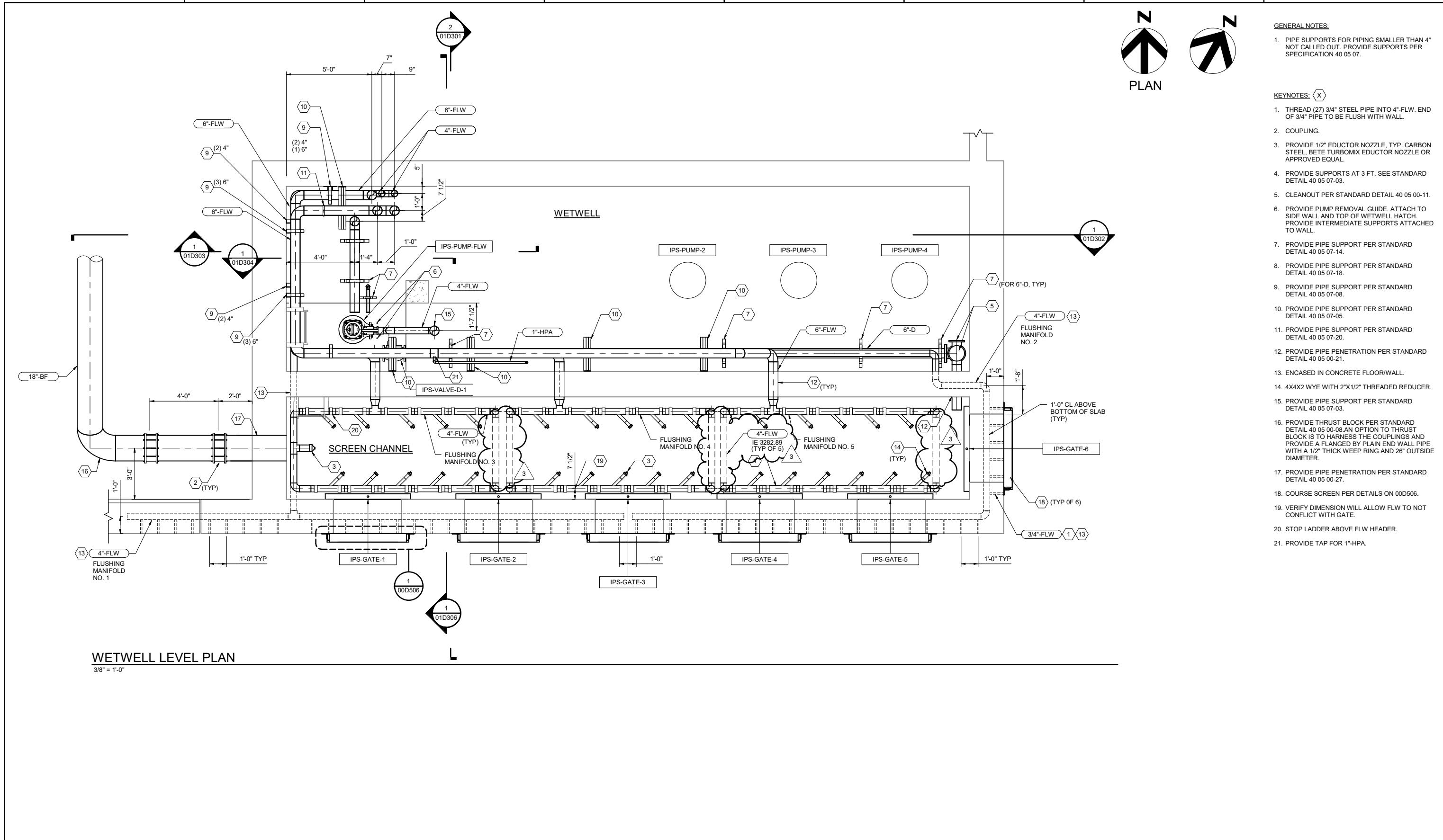
West End Water Facility  
City of Billings, MT  
W.O. 22-19

# West End Water Intake/Pump Station Project

## **CIVIL DOWNSTREAM RIVERBANK GRADING PLAN**

NAME 00C008.DWG  
SCALE 1" = 20'

SHEET  
**00C008**



PROJECT MANAGER		
CIVIL	J. HILLIUS	
STRUCTURAL	T. HAMLIN	
ARCHITECTURAL	J. RICKERT	
PROCESS	J. HILLIUS	
MECHANICAL	R. DALRYMPLE	
ELECTRICAL	L. KIRMEYER	
INSTRUMENTATION	D. BEST	
PROJECT NUMBER	10126753	

3 11/2022 ADDENDUM #3  
JULY 2022 ISSUE FOR BID  
ISSUE DATE DESCRIPTION



West End Water Facility  
City of Billings, MT  
W.O. 22-19  
West End Water  
Intake/Pump Station  
Project

### INTAKE/PUMP STATION LOWER LEVEL PLAN