
Chelan Tailrace Pump Station Pump Procurement

Drawings

90% Review

Volume 2

Prepared for
Public Utility District No. 1
of Chelan County

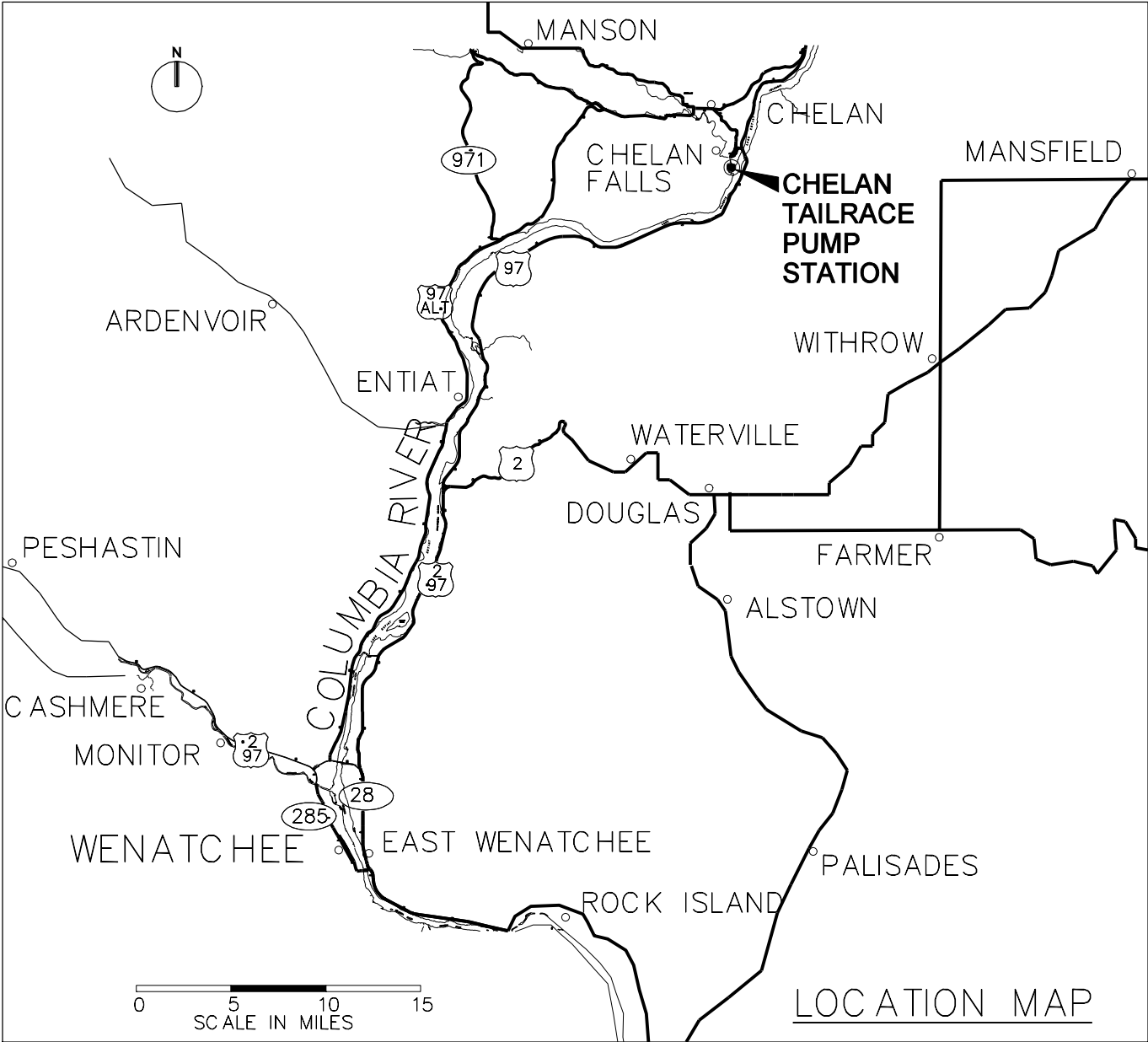
April 2007

CH2MHILL

PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY,
WASHINGTON

CHELAN TAILRACE PUMP STATION

PUMP PROCUREMENT BID 07-31



INDEX TO DRAWINGS

SHEET NO.	DWG. NO.	SCHEDULE	TITLE
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CH2MHILL

CONSULTANT

PRIM. ENG. T TOVEY

2ND ENG. .

DESIGNER R GATTON

APPROVAL R GATTON

CHELAN PUD NO.1

PRIM. ENG.

2ND ENG.

PROJ. MGR.

SCALE

REV

DATE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0 1'

VERIFY SCALE

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY

WENATCHEE, WASHINGTON

CHELAN TAILRACE PUMP STATION
PUMP PROCUREMENT
BID 07-31
COVER SHEET & INDEX TO DRAWINGS

SHEET 1 OF 17

REVISION .

DATE APRIL 2007

DWG. G-1

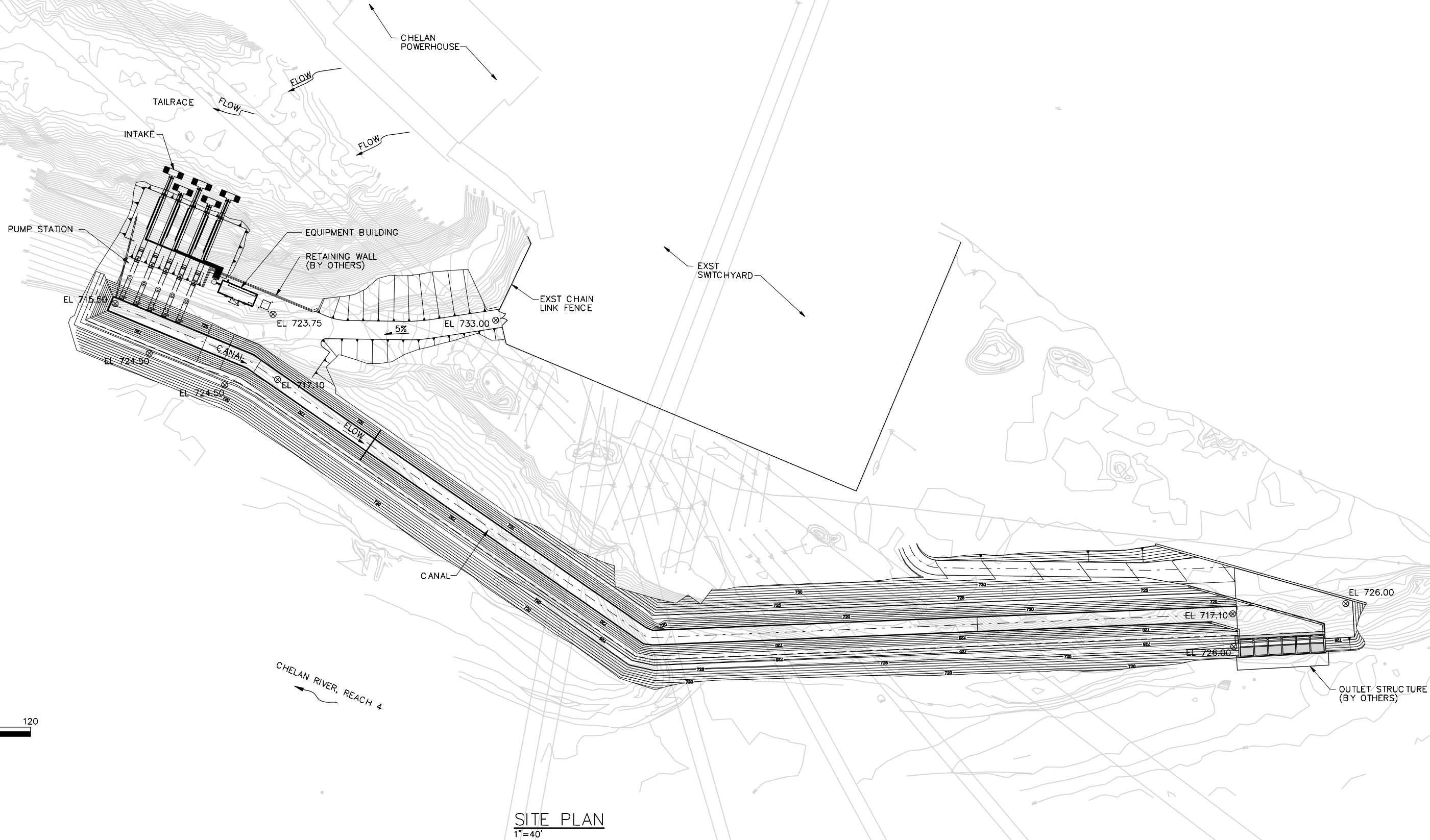
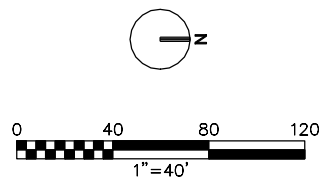
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CH2MHILL

CONSULTANT	PRIM. ENG.	J KAPLA	CHELAN PUD NO.1
	2ND ENG.	.	PRIM. ENG.
	DESIGNER	R GATTON	2ND ENG.
	APPROVAL	R GATTON	PROJ. MGR.

SCALE

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PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY
WENATCHEE, WASHINGTON



CHELAN TAILRACE PUMP STATION
PUMP PROCUREMENT
BID 07-31
SITE PLAN

SHEET 2 OF 17
REVISION .
DATE APRIL 2007
DWG. C-1

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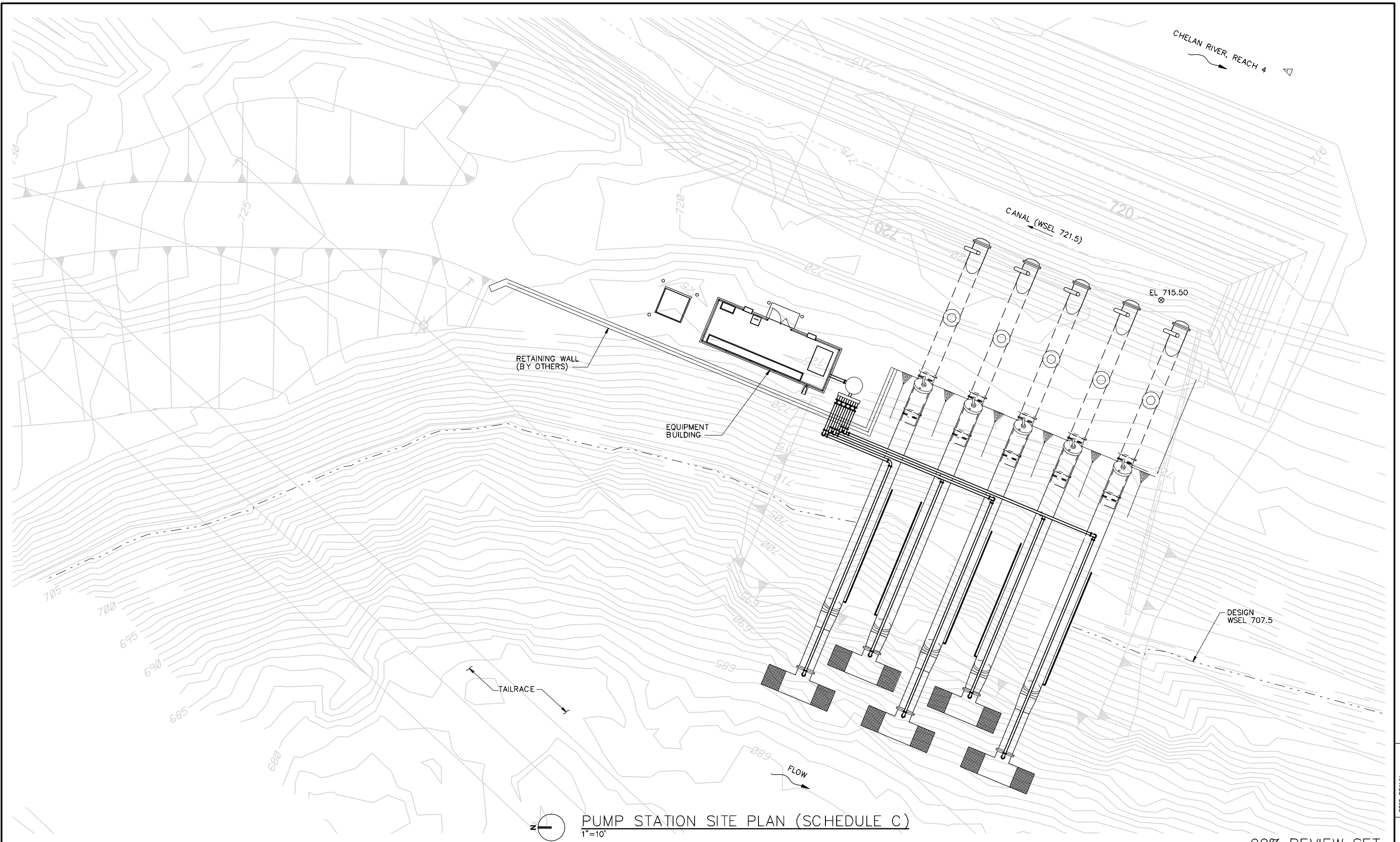
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	2ND ENG.	.	PRIM. ENG.
	DESIGNER	R GATTON	2ND ENG.
	APPROVAL	R GATTON	PROJ. MGR.

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PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY
WENATCHEE, WASHINGTON



CHELAN TAILRACE PUMP STATION
PUMP PROCUREMENT
BID 07-31
PUMP STATION CIVIL SITE PLAN

SHEET 3 OF 17
REVISION .
DATE APRIL 2007
DWG. C-2

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	DESIGNER	R GATTON	2ND ENG.
	APPROVAL	R GATTON	PROJ. MGR.

SCALE

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IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

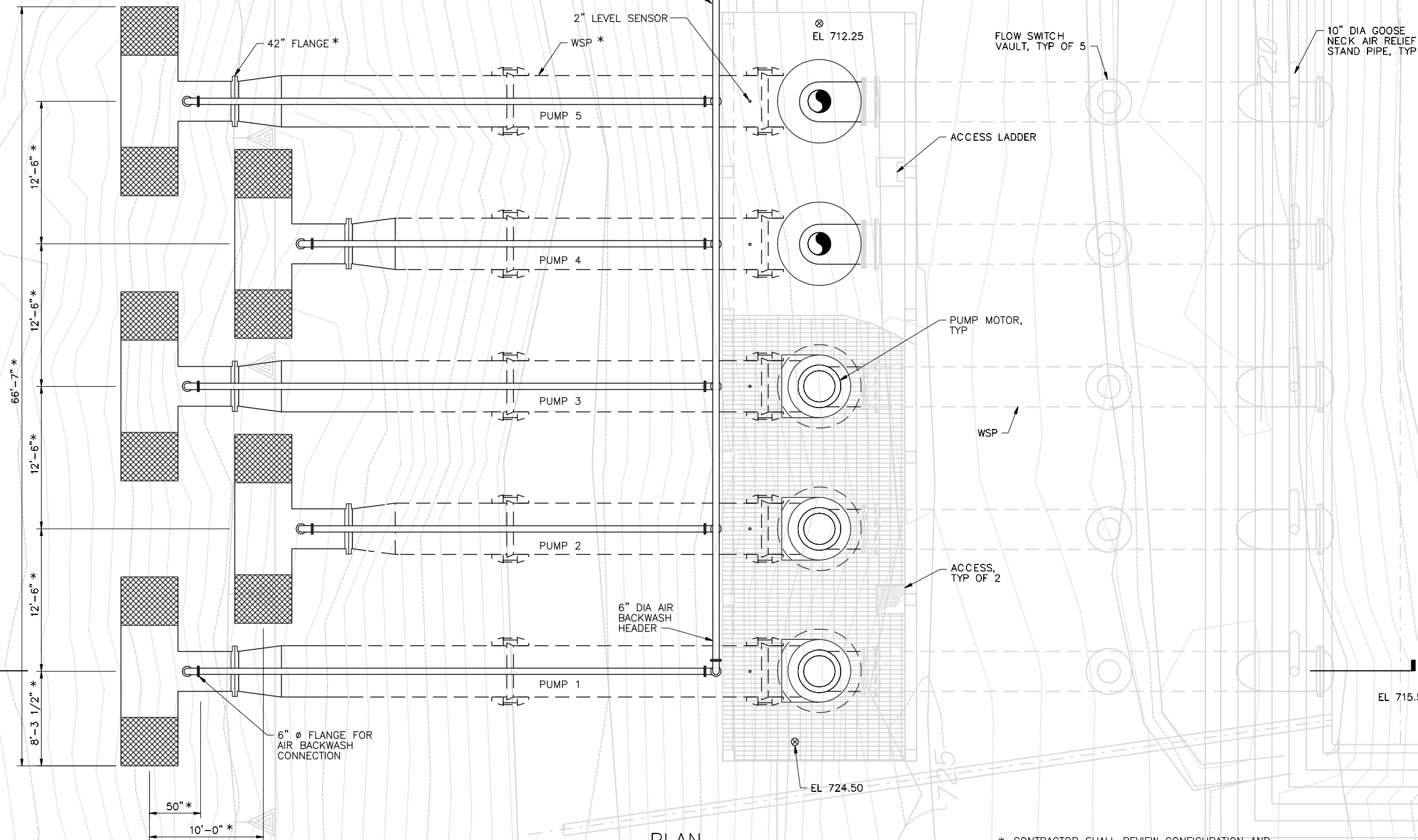
PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY

WENATCHEE, WASHINGTON



CHELAN TAILRACE PUMP STATION
PUMP PROCUREMENT
BID 07-31
SCHEDULE A
PUMP STATION PLAN

SHEET 4 OF 17
REVISION .
DATE APRIL 2007
DWG. M-1



PLAN
1"=5'-0"

* CONTRACTOR SHALL REVIEW CONFIGURATION AND LAYOUT SHOWN AND EITHER CONFIRM OR PROVIDE DIMENSIONS AND / OR GEOMETRY AS PART OF BID.

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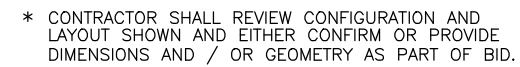
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SHEET 5 OF 17
REVISION .
DATE APRIL 2007
DWG. M-2

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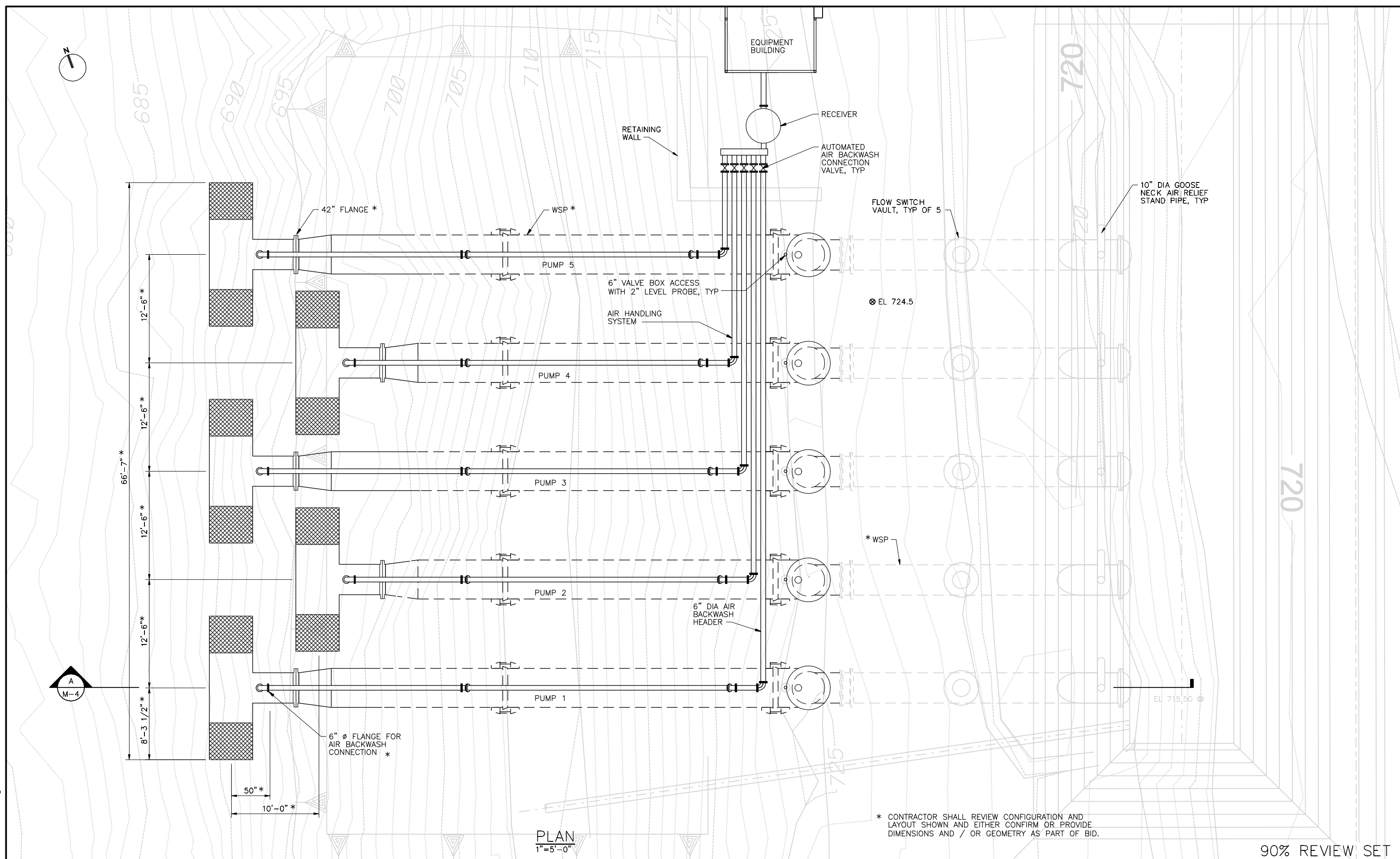
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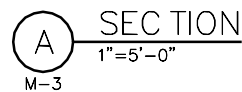


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DRFT			



SHEET 6 OF 17
REVISION .
DATE APRIL 2007
DWG. M-3





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		2ND ENG. .	PRIM. ENG.							REVISION .		
		DESIGNER R GATTON	2ND ENG.							DATE APRIL 2007		
		APPROVAL R GATTON	PROJ. MGR.	REV	DATE	REVISION				REQ. BY	DRFT	DWG. M-4

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2ND ENG.		PRIM. ENG.
DESIGNER	R GATTON	2ND ENG.
APPROVAL	R GATTON	PROJ. MGR.

SCALE

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PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY
WENATCHEE, WASHINGTON



CHELAN TAILRACE PUMP STATION
PUMP PROCUREMENT
BID 07-31
SCHEDULE C
PUMP STATION PLAN

SHEET 8 OF 17
REVISION .
DATE APRIL 2007
DWG. M-5

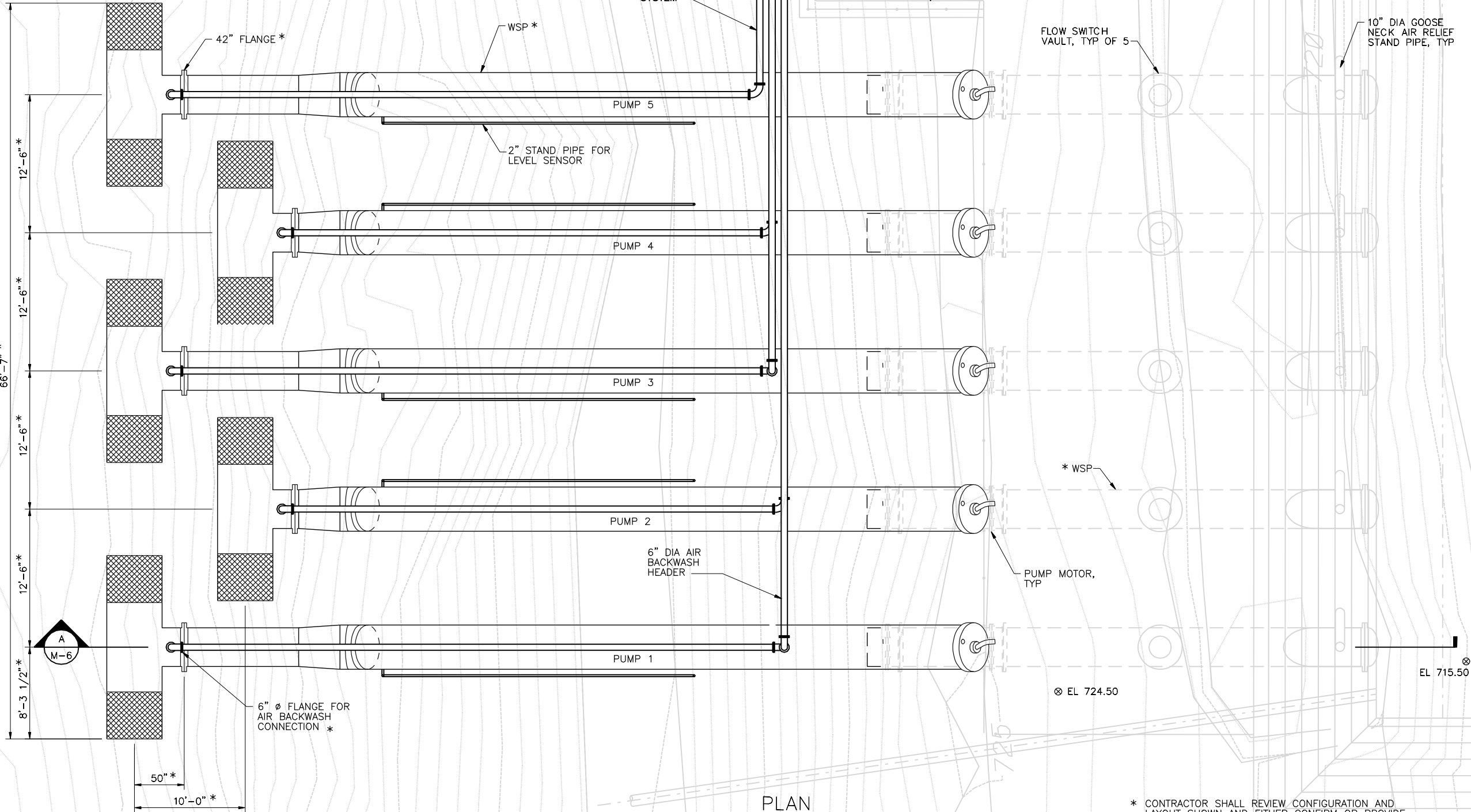
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PLAN
1"=5'-0"

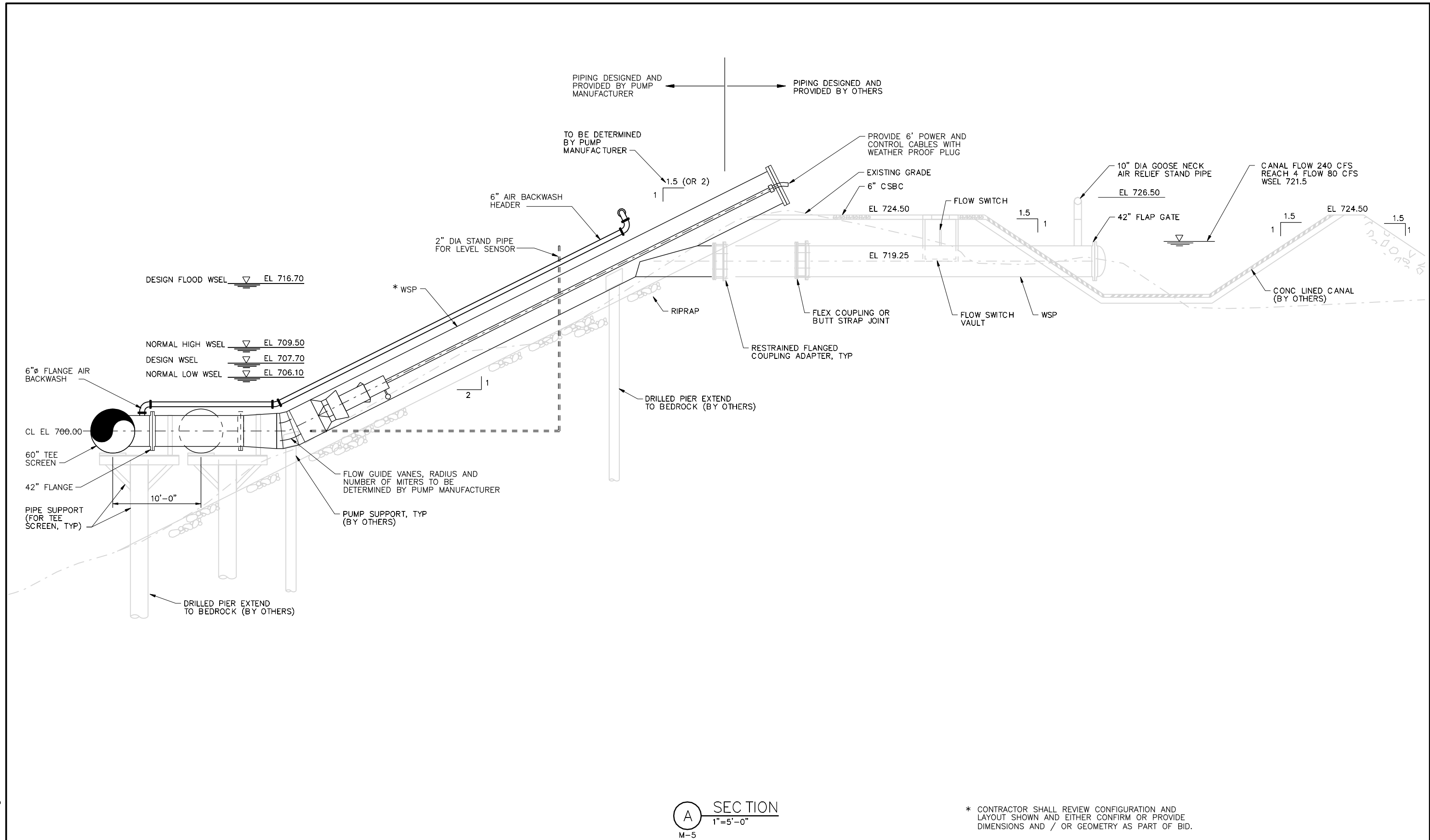
* CONTRACTOR SHALL REVIEW CONFIGURATION AND LAYOUT SHOWN AND EITHER CONFIRM OR PROVIDE DIMENSIONS AND / OR GEOMETRY AS PART OF BID.

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SECTION A
1"=5'-0"
M-5

* CONTRACTOR SHALL REVIEW CONFIGURATION AND LAYOUT SHOWN AND EITHER CONFIRM OR PROVIDE DIMENSIONS AND / OR GEOMETRY AS PART OF BID.

90% REVIEW SET

CH2MHILL	CONSULTANT	PRIM. ENG. G KNOX	CHELAN PUD NO.1	SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING. 0 _____ 1'			VERIFY SCALE			IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			<i>PUBLIC UTILITY DISTRICT NO. 1 OF CHELAN COUNTY</i>				CHELAN TAILRACE PUMP STATION PUMP PROCUREMENT			SHEET 9 OF 17		
		2ND ENG. .	PRIM. ENG.									BID 07-31							REVISION .					
		DESIGNER R GATTON	2ND ENG.												DATE APRIL 2007									
		APPROVAL R GATTON	PROJ. MGR.	REV	DATE	REVISION			REQ. BY			DRAFT			PUMP STATION SECTION			DWG. M-6						

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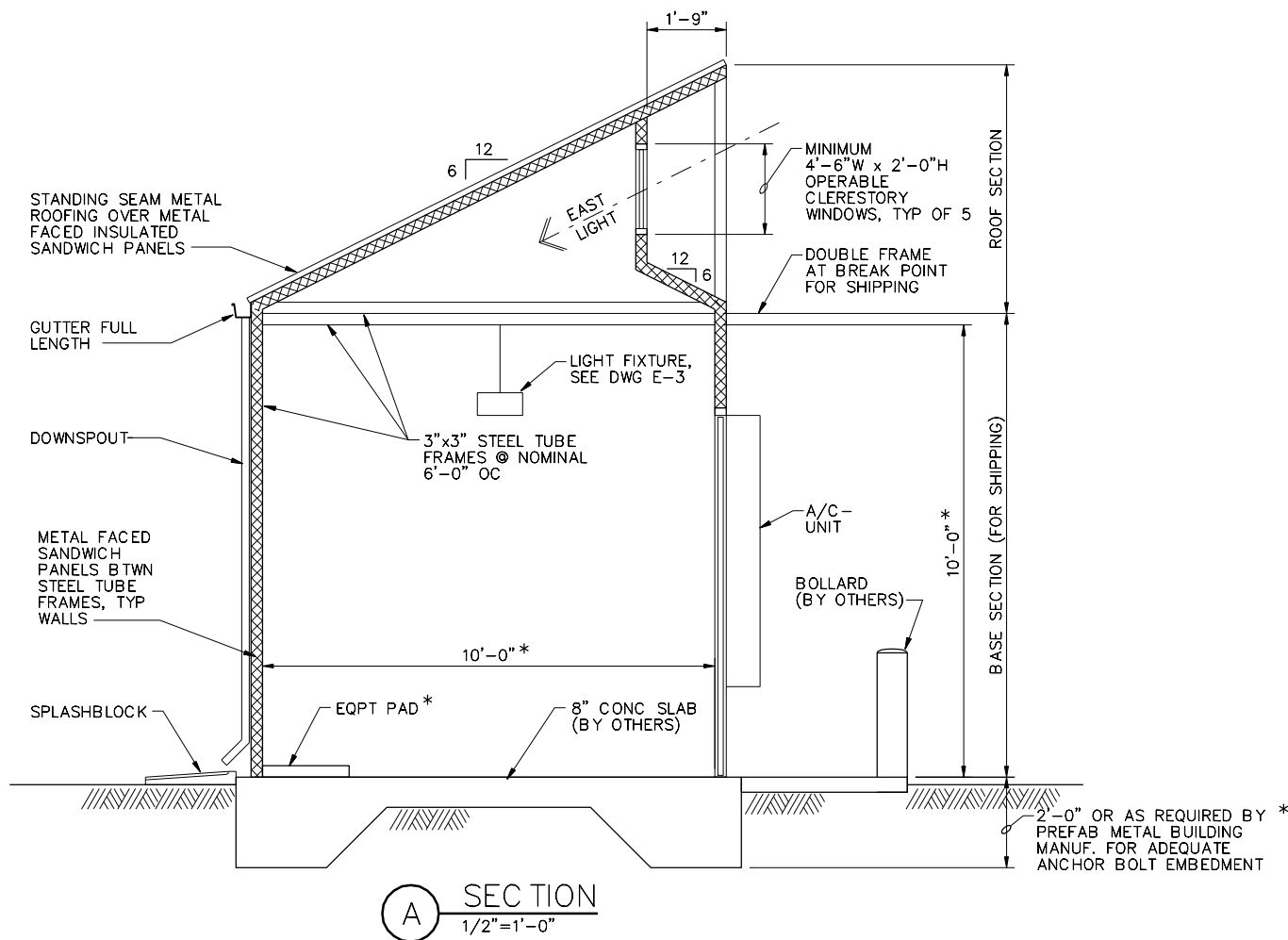
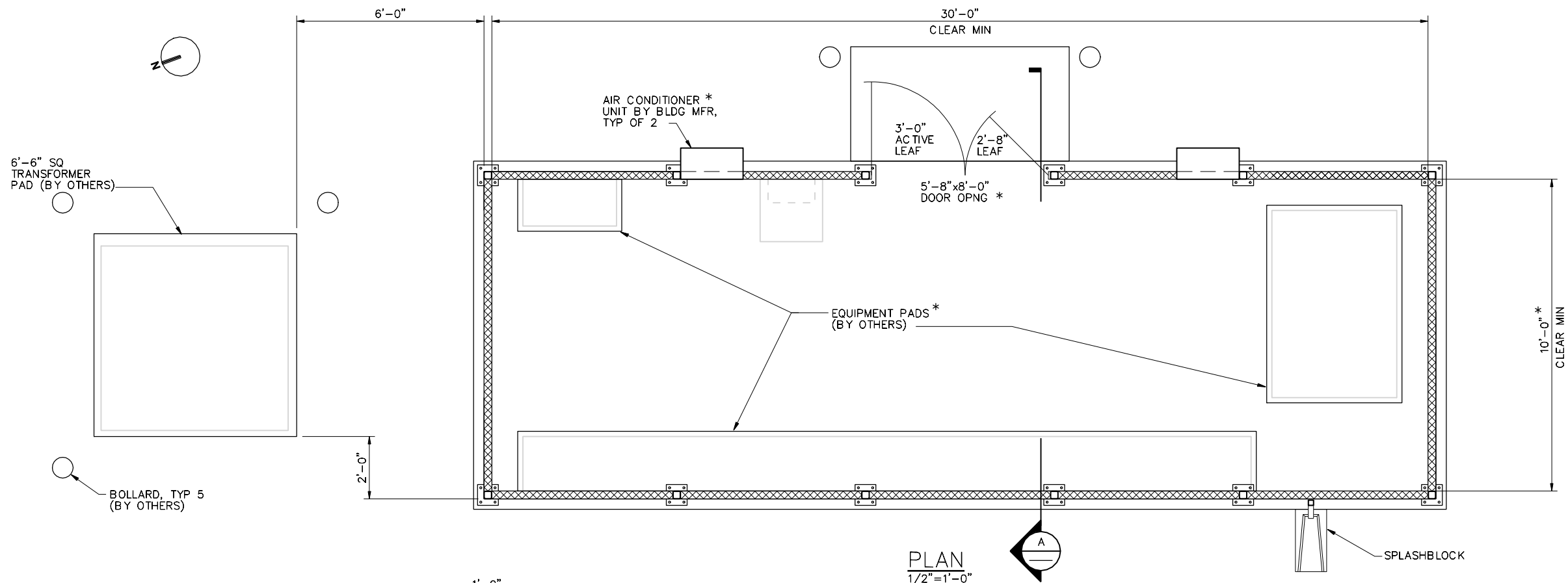
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STRUCTURAL NOTES

- APPLICABLE CODE:
2003 INTERNATIONAL BUILDING CODE (IBC), AS AMENDED BY THE STATE OF WASHINGTON AND CITY OF CHELAN
- DESIGN LOADS:
- ROOF LOADS:
 - SNOW LOAD $P_g=25$ PSF, $C_e=.9$, $I=1.00$
 - ROOF LIVE LOAD 50 PSF
 - COLLATERAL ROOF LOADS 10 PSF
 - DEFLECTION CRITERIA FOR ROOF FRAMING MEMBERS:
 - TOTAL LOAD $L/240$
 - LIVE LOAD $L/360$
 - WHERE L IS THE MEMBER'S SPAN LENGTH
 - FLOOR LIVE LOAD: 300 PSF
 - WIND LOADS: 85 MPH, EXPOSURE C, $I_w=1.00$
 - SEISMIC LOAD:
 - IBC & ASCE 7-02 SEISMIC DESIGN CATEGORY C
 - SITE CLASS B
 - SEISMIC USE GROUP I
 - BUILDING CLASSIFICATION II
 - OCCUPANCY IMPORTANCE FACTOR, $I=1.0$
 - USGS MAPPED VALUES: $S_s=.51g$, $S_1=.17g$, $SDS=.34g$, $SD1=.11g$
 - BASIC SEISMIC-FORCE RESISTING SYSTEM:
 - SPECIAL STEEL CONCENTRICALLY BRACED FRAME
 - DESIGN BASE SHEAR $=.10W$
 - SEISMIC RESPONSE COEFFICIENT, $C_s=.057$
 - RESPONSE MODIFICATION FACTOR, $R=6$
 - ANALYSIS PROCEDURE USED: EQUIVALENT LATERAL FORCE METHOD
 - SOIL DESIGN PARAMETERS:
 - NET ALLOWABLE SOIL BEARING PRESSURE $= 4000$ PSF
 - FROST DEPTH $= 18$ INCHES
 - DATUM: SEE SITE DRAWINGS

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CONSULTANT	PRIM. ENG. T TOVEY	CHELAN PUD NO.1
	2ND ENG. .	PRIM. ENG.
	DESIGNER R GATTON	2ND ENG.
	APPROVAL R GATTON	PROJ. MGR.

SCALE	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	VERIFY SCALE
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PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY
WENATCHEE, WASHINGTON



CHELAN TAILRACE PUMP STATION
PUMP PROCUREMENT
BID 07-31
EQUIPMENT BUILDING PLAN AND SECTION

SHEET 10 OF 17
REVISION .
DATE APRIL 2007
DWG. S-1

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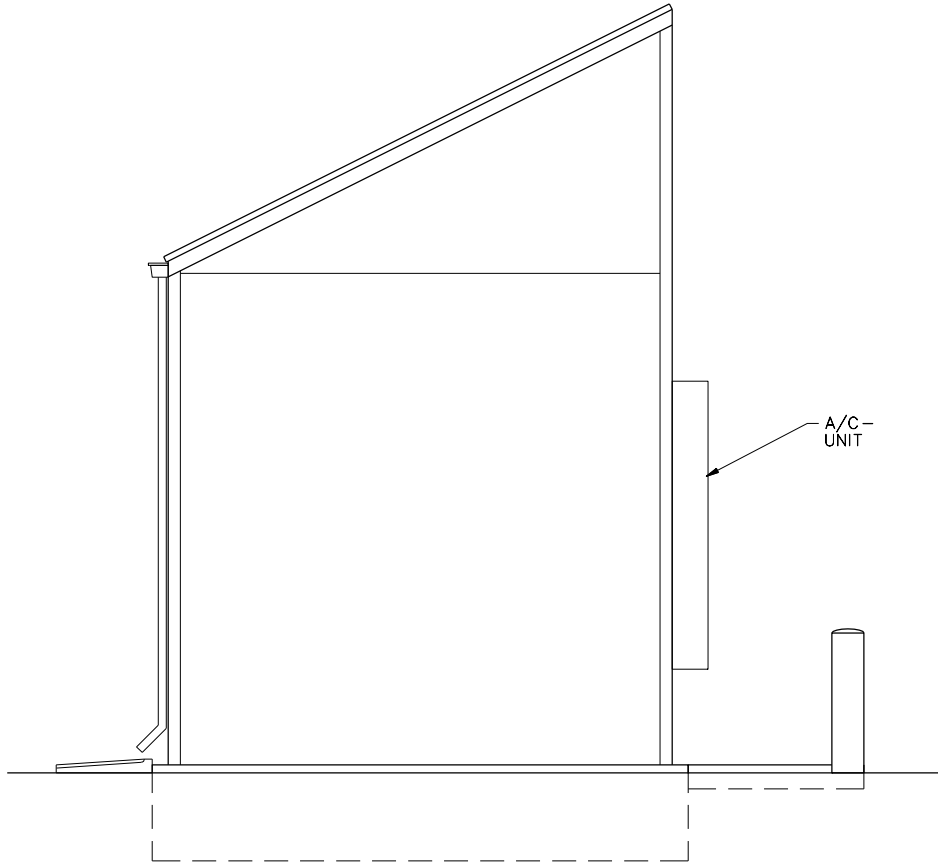
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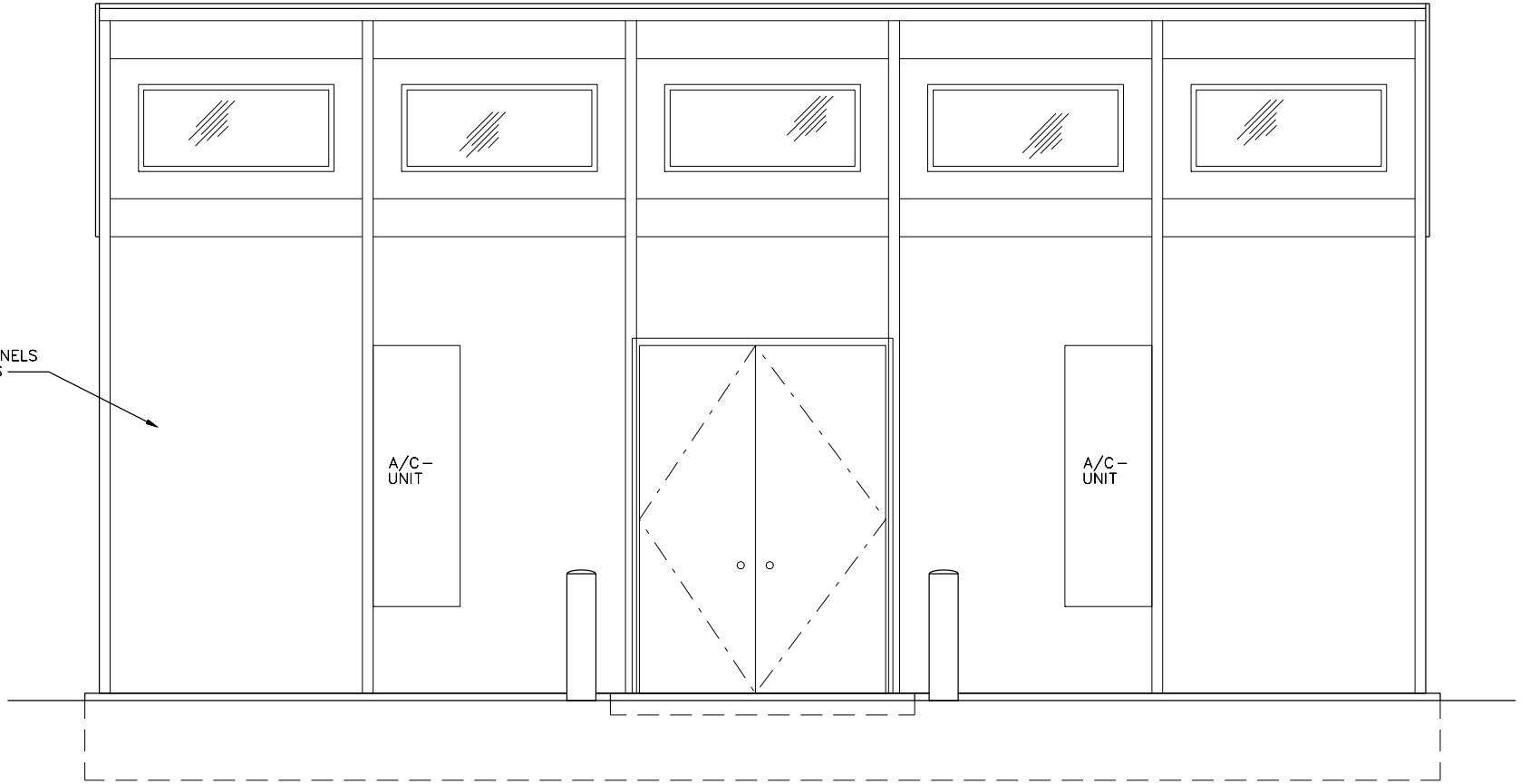
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SOUTH ELEVATION
1/2"=1'-0"

METAL FACED
SANDWICH PANELS
B TWN FRAMES



EAST ELEVATION
1/2"=1'-0"

CH2MHILL

CONSULTANT	PRIM. ENG.	T TOVEY	CHELAN PUD NO.1	
	2ND ENG.	.	PRIM. ENG.	
	DESIGNER	R GATTON	2ND ENG.	
	APPROVAL	R GATTON	PROJ. MGR.	

SCALE

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ORIGINAL DRAWING.

VERIFY SCALE
0 1'

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THIS SHEET, ADJUST
SCALES ACCORDINGLY.

*PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY*

WENATCHEE, WASHINGTON



CHELAN TAILRACE PUMP STATION
PUMP PROCUREMENT
BID 07-31
EQUIPMENT BUILDING ELEVATION

SHEET 11 OF 17
REVISION .
DATE APRIL 2007
DWG. S-2

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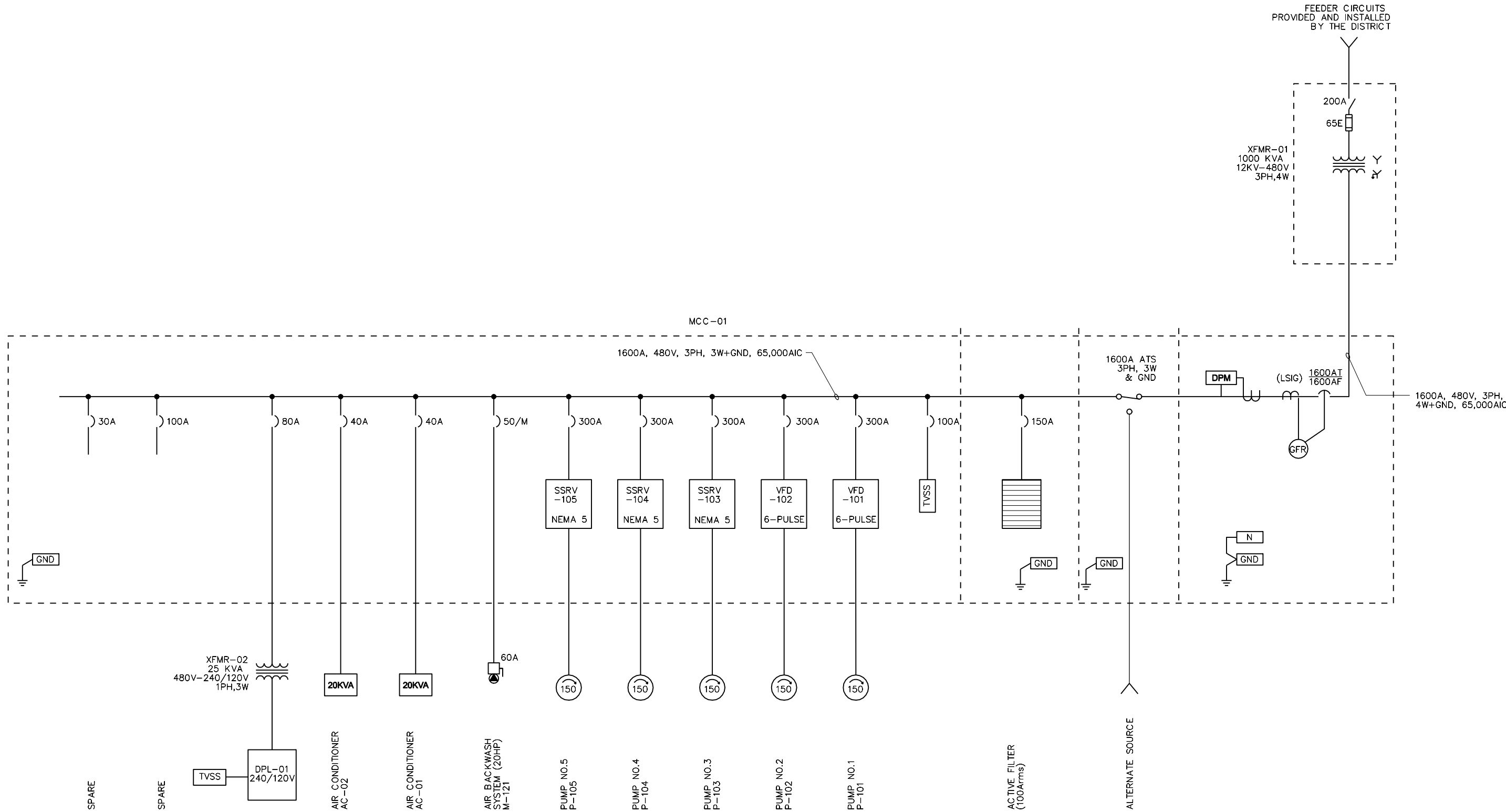
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		2ND ENG.	.	PRIM. ENG.																	
		DESIGNER	D WAGNER	2ND ENG.																DATE APRIL 2007	
		APPROVAL	R GATTON	PROJ. MGR.		REV	DATE	REVISION		REQ. BY	DRFT									DWG. E-1	

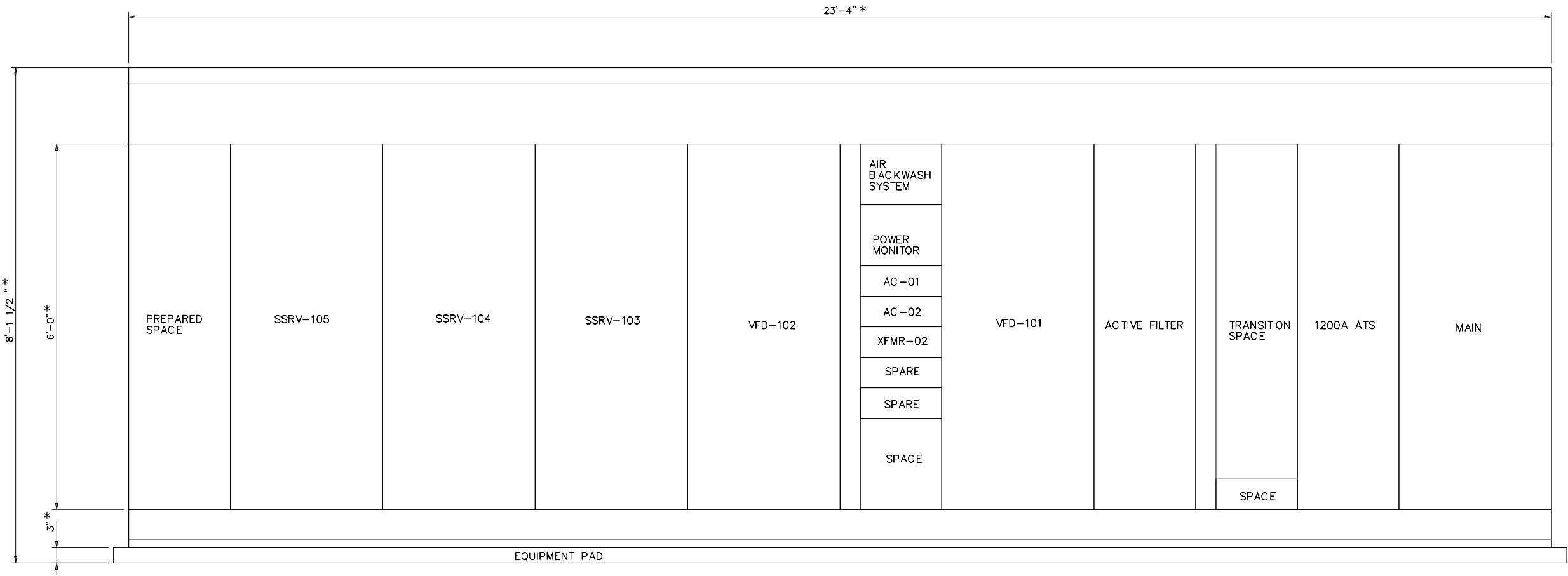
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ORIG. DRAWN

ORIG. DATE



PLAN
1"=10'-0"

* CONTRACTOR SHALL REVIEW CONFIGURATION AND LAYOUT SHOWN AND EITHER CONFIRM OR PROVIDE DIMENSIONS AND / OR GEOMETRY AS PART OF BID.

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CH2MHILL	CONSULTANT	PRIM. ENG. A CROSS	CHELAN PUD NO.1	SCALE		BAR IS ONE INCH ON ORIGINAL DRAWING. 0 _____ 1'			VERIFY SCALE IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.			<i>PUBLIC UTILITY DISTRICT NO. 1 OF CHELAN COUNTY</i> WENATCHEE, WASHINGTON				CHELAN TAILRACE PUMP STATION PUMP PROCUREMENT			SHEET 13 OF 17		
		2ND ENG. .	PRIM. ENG.						BID 07-31							REVISION .					
		DESIGNER D WAGNER	2ND ENG.						MCC ELEVATION							DATE APRIL 2007					
		APPROVAL R GATTON	PROJ. MGR.	REV	DATE	REVISION			REQ. BY	DRFT				DWG. E-2							

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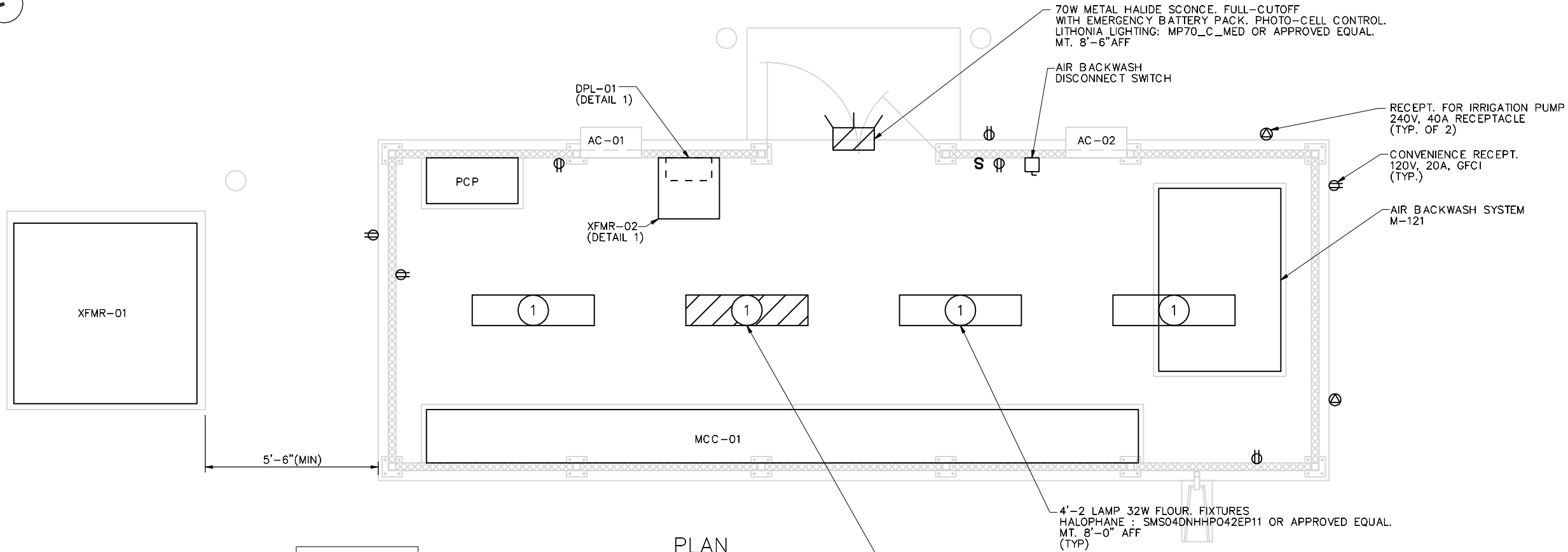
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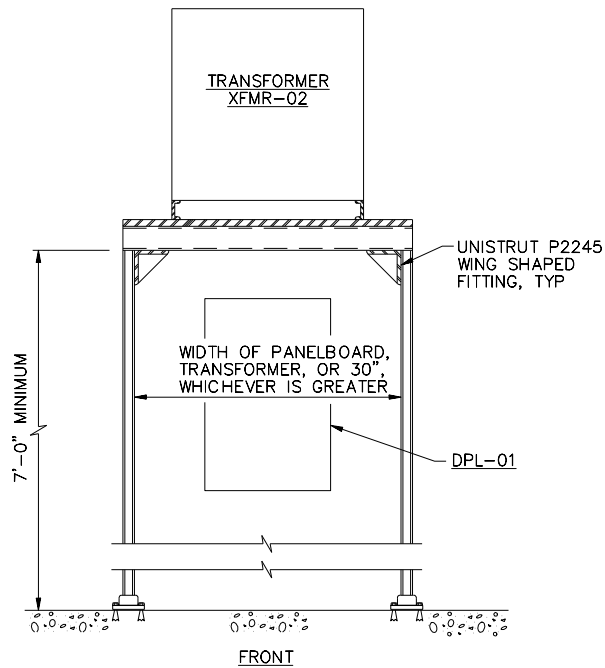
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PLAN
1/2"=1'-0"



NOTES:

1. GALVANIZE ALL STEEL AFTER FABRICATION.
2. USE STAINLESS STEEL MOUNTING HARDWARE. USE WASHERS, SPLIT-LOCK WASHERS UNDER ALL NUTS AND BOLTS.
3. CONCRETE ANCHORS AS REQUIRED BY CONTRACTOR. TO BE INSTALLED BY OTHERS.

1 DETAIL
NTS

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CONSULTANT	PRIM. ENG.	A CROSS	CHELAN PUD NO.1
	2ND ENG.	.	PRIM. ENG.
	DESIGNER	D WAGNER	2ND ENG.
	APPROVAL	R GATTON	PROJ. MGR.

SCALE

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PUBLIC UTILITY DISTRICT NO. 1
OF CHELAN COUNTY

WENATCHEE, WASHINGTON



CHELAN TAILRACE PUMP STATION
PUMP PROCUREMENT
BID 07-31
EQUIPMENT BUILDING ELECTRICAL,
HVAC, AND LIGHTING PLAN

SHEET 14 OF 17
REVISION .
DATE APRIL 2007
DWG. E-3

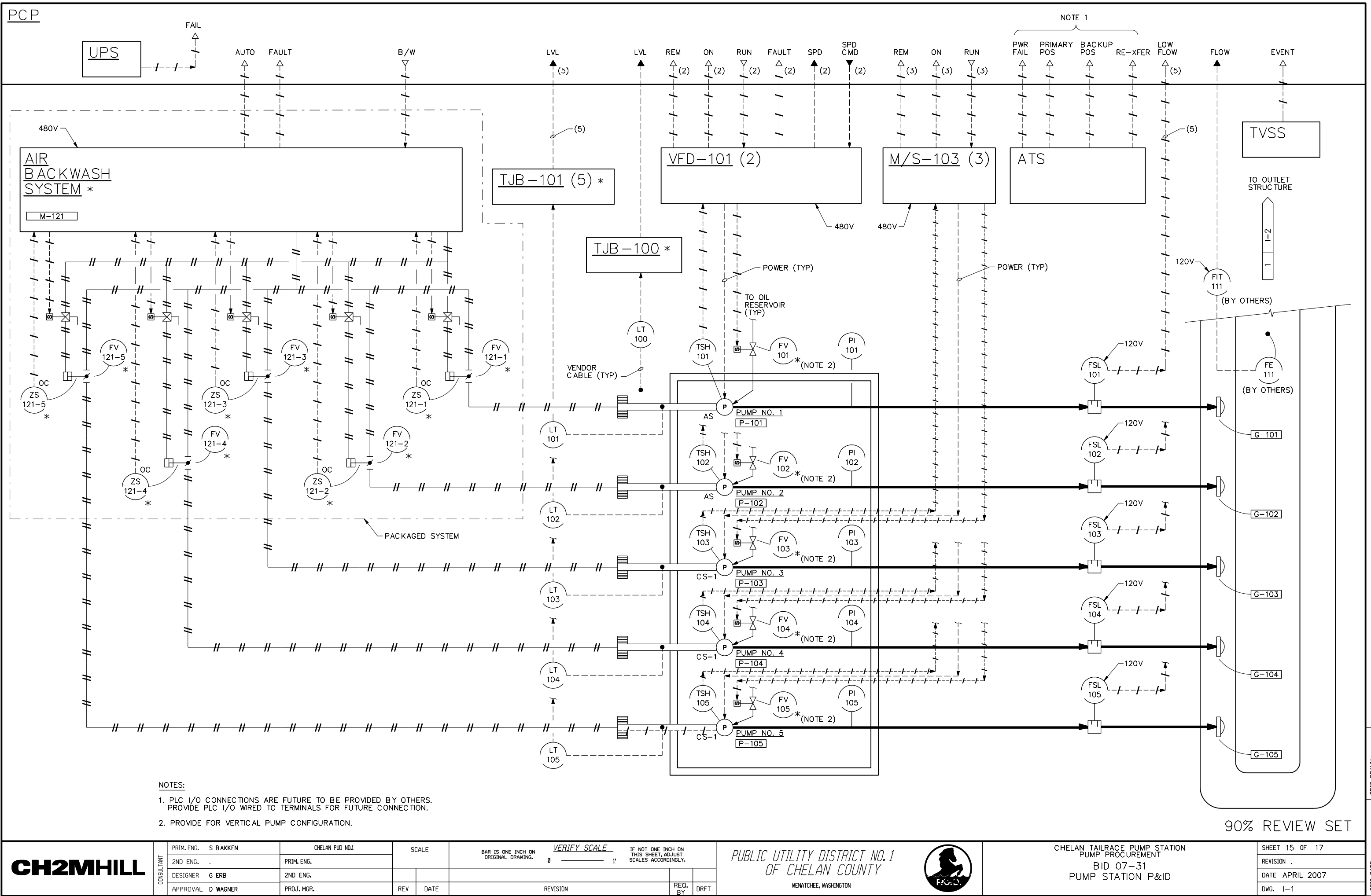
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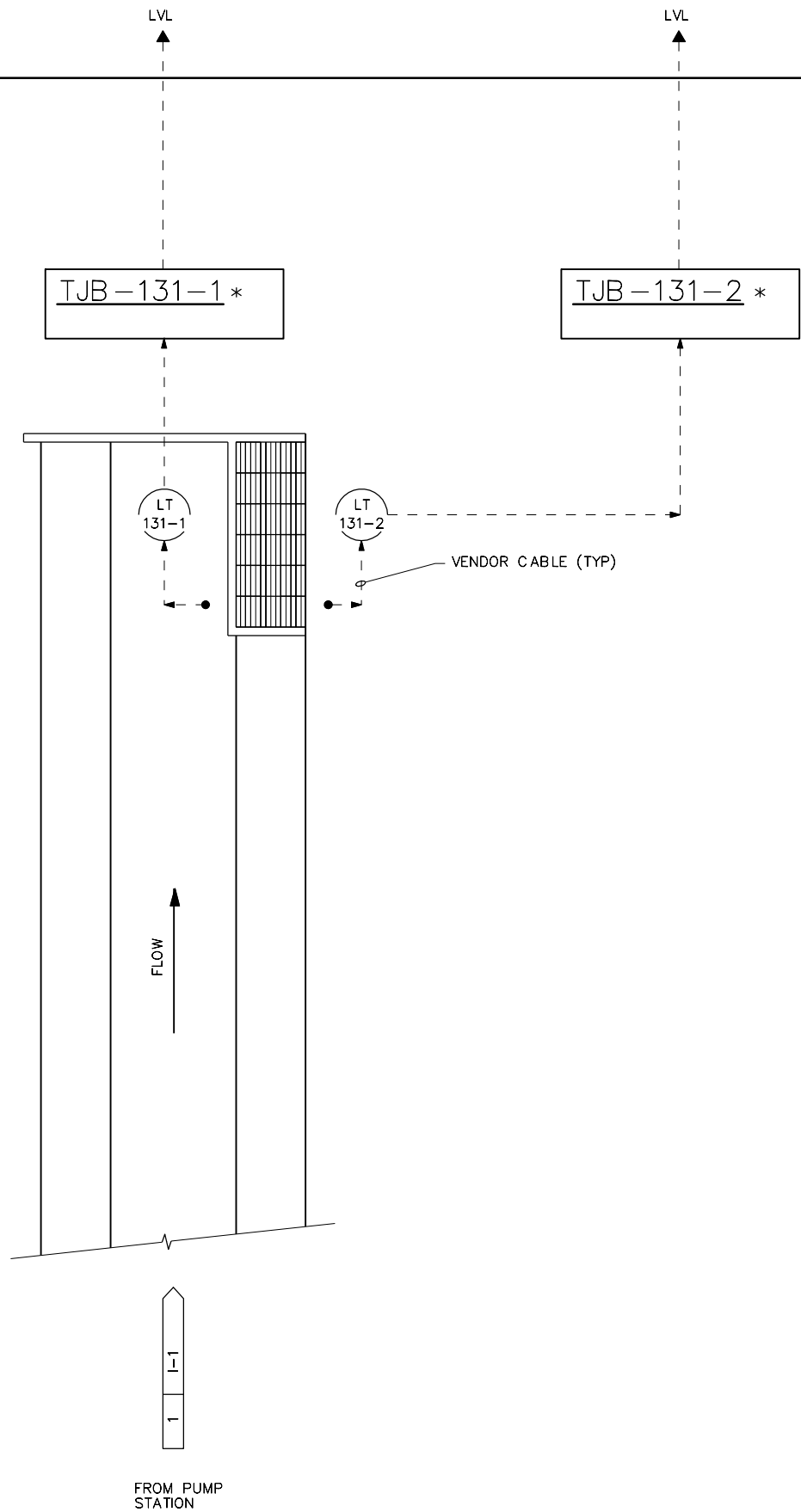
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		2ND ENG. .	PRIM. ENG.			0 1'						BID 07-31		REVISION .	
		DESIGNER G ERB	2ND ENG.	NO	DATE	DESCRIPTION		APVR	N			OUTLET STRUCTURE P&ID		DATE APRIL 2007	
		APPROVAL D WAGNER	PROJ. MGR.	REV	DATE	REVISION		REQ. BY	DRFT					DWG. 1-2	

