



Mr. Dave Clark

July 09, 2015

NM MMD

Subject: Addenda to APPLICATION FOR REVISION OF MINE PERMIT #C1002RE FROM STANDBY TO ACTIVE STATUS and MODIFICATION OF GROUND WATER DISCHARGE PERMIT DP-61 MT. TAYLOR MINE, SAN MATEO, NEW MEXICO, Rev.1, for Addition of Molybdenum/ Selenium (MoSe) Treatment Building

Dear Mr. Clark:

With this letter, Rio Grande Resources Corporation (RGR) is submitting information describing a facility that will be added to the Mt. Taylor Mine's mine water treatment unit (MWTU) for removal of molybdenum and selenium from mine water before it is discharged. The MoSe facility will be constructed, and the existing IX plant (for removal of uranium) will be upgraded, during mine reactivation and will be operable before mine dewatering begins. When mine dewatering commences, the MWTU will be capable of removing U, Ra, Mo and Se to New Mexico human health standards per 20.6.2.3103A NMAC.

This submittal contains an addendum to the subject application for revision of the mine permit (application) from standby status to active status (Rev.1) as well as an addendum to the Closeout/Closure Plan (CCP), Rev.1 for the reactivated mine. Although water treatment for Mo and Se was not needed during previous mine operations, nor necessarily activated in future mine operations until/ unless Mo or Se limits are approached, the MoSe facility is being added as a condition of the Environment Department (NMED) approval of renewal of DP-61; this submittal is not a request for mine permit revision or modification.

The attached *addendum to the application for revision of mine permit status to active* includes:

- Mount Taylor Uranium Mine/ Rio Grande Resources Corp. Uranium Ion Exchange & Molybdenum and Selenium Adsorption Facility design drawings, set of 14, by LNV Engineers/ Architects/ Contractors, Rev.1, 3/13/15
- Operations and Maintenance (O&M) Manual, Mount Taylor Uranium Mine/ Rio Grande Resources Corp. Mine Water Treatment Unit (MWTU) - Uranium IX & Molybdenum/ Selenium Treatment Facility, by LNV Engineers/ Architects/ Contractors, Rev.1, 3/19/15
- Drawings MT13-AC-01 Rev.2, -02 Rev.2, -03 Rev.1, and -14 Rev.2, showing the location of the MoSe facility.
- Update of Section 3.1, Mine Water Treatment Unit, by reference to section II and IV of the O&M Manual. Where the O&M Manual conflicts with the present language of the application, the O&M Manual governs and supersedes the application section 3.1 text.

- LNV letter to NMED dated 5/20/2015 responding to questions regarding design and operation of the uranium IX and MoSe elements of the MWTU.
- RGR letter to MMD dated 6/24/2015, committing RGR to a cultural resources survey of the ground to be disturbed by construction of the MoSe facility.

The attached *addendum to the CCP for revision of mine permit status to active* includes:

- Additions to the CCP Rev.1 text, specifically to section 2.5, Future Mine Units; section 4.3, Surface Facilities Demolition; and section 7, Cost Estimate
- Changes to drawings MT13-CL-04 Rev.2, -07 Rev.2, and -13 Rev.2 to show the location of the MoSe facility.
- Change to Table 5.1, Building Inventory, to include the MoSe building.
- Rev.2 of the Cost Estimate (Appendix E) to include the cost to remove the MoSe facility.

Please contact me with any questions or comments.

Joe Lister 

Addendum to the Application for Revision of Mine Permit #C1002RE from Standby to Active Status, Mt. Taylor Mine; July 9, 2015

This addendum to the Revision 1 of the Application for Revision of Mine Permit #C1002RE from Standby to Active Status, Mt. Taylor Mine provides information related to a new facility that will be added to the Mt. Taylor Mine's mine water treatment unit (MWTU) for removal of molybdenum and selenium from mine water before it is discharged. The MoSe facility will be constructed, and the existing IX plant (for removal of uranium) will be upgraded, during mine reactivation and will be operable before mine dewatering begins. The addendum includes:

1. Mount Taylor Uranium Mine/ Rio Grande Resources Corp. Uranium Ion Exchange & Molybdenum and Selenium Adsorption Facility design drawings, set of 14, by LNV Engineers/ Architects/ Contractors, Rev.1, 3/13/15. This document in pdf format is attached.
2. Operations and Maintenance (O&M) Manual, Mount Taylor Uranium Mine/ Rio Grande Resources Corp. Mine Water Treatment Unit (MWTU) - Uranium IX & Molybdenum/ Selenium Treatment Facility, by LNV Engineers/ Architects/ Contractors, Rev.1, 3/19/15. This document in pdf format is attached.
3. Drawings MT13-AC-01 Rev.2, -02 Rev.2, -03 Rev.1, and -14 Rev.2, showing the location of the MoSe facility. These documents in pdf format are attached.
4. Update of Section 3.1, Mine Water Treatment Unit, *by reference to section II and IV of the O&M Manual*. Where the O&M Manual conflicts with the present language of the application, the O&M Manual governs and supersedes sections 3.1 and 3.1.1 on pages 13-16 of Revision 1 of the application text.
5. LNV letter to NMED dated 5/20/2015 responding to questions regarding design and operation of the uranium IX and MoSe elements of the MWTU. This document in pdf format is attached.
6. RGR letter to MMD dated 6/24/2015, committing RGR to a cultural resources survey of the ground to be disturbed by construction of the MoSe facility. This document in pdf format is attached.

Addendum to the Closeout/ Closure Plan (CCP) for Revision of Mine Permit #C1002RE from Standby to Active Status, Mt. Taylor Mine; July 9, 2015

1. Additions to the CCP Rev.1 text, specifically to section 2.5, Future Mine Units; section 4.3, Surface Facilities Demolition; and section 7, Cost Estimate, as follows:

2.5 Future Mine Units

Both existing and future mine units were described in the original mine permit application (RGR 1994b). The only mine units not existing at this time (future mine unit) are the north waste rock pile and the Molybdenum/ Selenium (MoSe) treatment facility. The north pile will be constructed only if needed, and that need will not be determined until at least five years after the mine is reactivated. The MoSe treatment facility will be constructed during mine reactivation adjacent to and north of the existing IX plant. The MoSe treatment facility will be operated as needed to maintain Mo and Se concentrations below the New Mexico human health standards per 20.6.2.3103A NMAC while water is pumped from the mine.

4.3 Surface Facilities Demolition

The MoSe facility is added to the list of facilities that will not be retained for the later use of the landowner and will be demolished.

7.0 COST ESTIMATE

The estimated costs of closeout/ closure of the Mt. Taylor Mine were developed to satisfy the requirements of both MMD's *CLOSEOUT PLAN GUIDELINES FOR EXISTING MINES, Attachment #4 (FINANCIAL ASSURANCE CALCULATION HAND BOOK)* and its *Guidance To Mine Operators for Calculating Reclamation Costs in Net Present Value, December 29, 2004* as well as NMED-GWQB's *Discharge Plan Closure Guidance for Mines, May 30, 1996*.

Several references were used for unit costs, the primary being R.S. Means Heavy Construction Cost Data 2013, the Wyoming DEQ Guideline No. 12, and the Caterpillar Performance Handbook. The basis for each unit cost is identified on the cost estimate spreadsheet.

Quantities of work and materials were based on field measurements or counts of materials, construction or design record drawings, and area/ volume calculation functions within AutoDesk AutoCAD Civil 3D® design software. A new base map, completed in June 2012 at 2.0-foot contour intervals, was used as the topographic base along with AutoCAD Civil 3D® design software for the earthwork estimates in this CCP.

The cost estimate does not include closure costs for the north waste pile. If this pile is needed, RGR will update the cost estimate to include costs related to closure of this facility. If the north waste pile is not needed and not constructed, the area reserved for this pile will be left undisturbed.

The cost estimate does not include any deductions or offsets for re-sale or salvage value of mine components and scrap. However, the value of these materials, especially the structural steel and the treated water pipeline, could offset one quarter to one third the actual direct cost of closeout.

Cost estimates for closeout of the IX facility are based on the conservative assumption that tubular materials (pipes) and debris internal to the IX circuit will contain scale or corrosion material with radiological contamination that cannot be removed, making it necessary to dispose of these materials as low-level radioactive waste in a licensed facility off-site (DOE 2002). Tubular materials (pipes) and debris internal to the MoSe circuit are not likely to contain scale or corrosion material with radiological contamination, so these materials will be disposed on-site with other similar material or recycled for off-site use. MoSe resins will be recycled to a permitted facility. Additional assumptions are that 1) the IX resin will be sent to a third party facility licensed by NRC or an Agreement State to process equivalent feed source material in the form of IX resin, and 2) the third party facility would accept title to the resin. The decontamination and demolition (D&D) costs for the IX circuit equipment are covered under the financial assurance requirement of the Radioactive Material License with the NMED Radiation Control Bureau and are not included in this estimate; only the IX structure is included in this estimate.

The detailed estimate is presented in Appendix E. The estimated costs by category are:

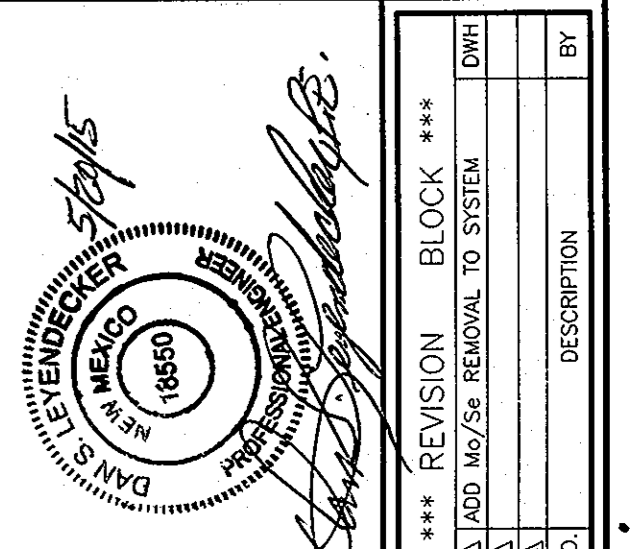
Direct Cost =	\$ 5,135,745
Indirect Cost =	\$2,516,515
Direct + Indirect Cost =	\$7,652,260

Location Cost Adjustment=	0.879
Total Adjusted Direct + Indirect =	\$6,726,337
New Mexico Gross Receipts Tax	\$441,416
Total Direct + Indirect, Location-adjusted, with NMGRT	\$7,167,753

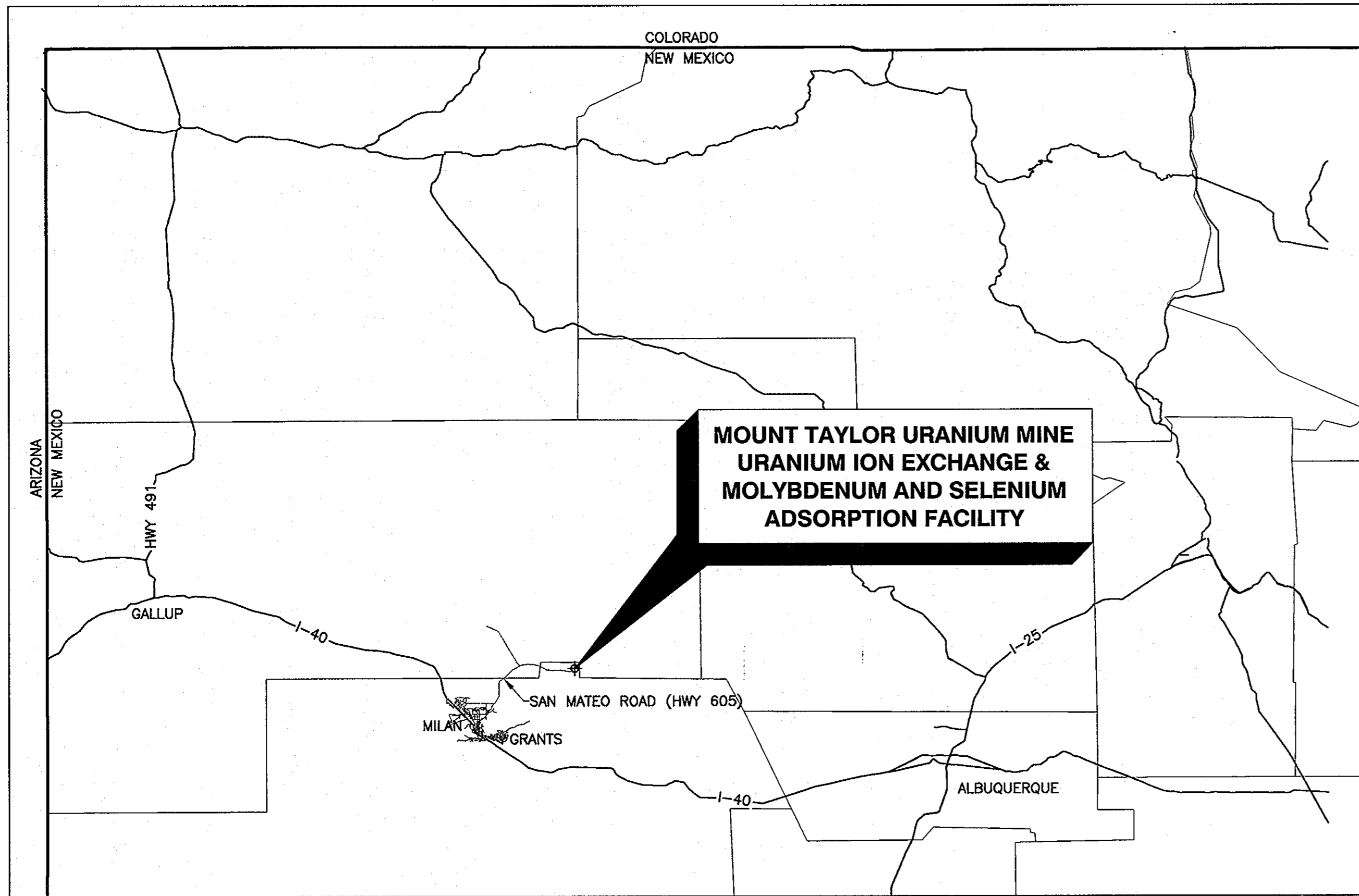
CIBOLA COUNTY, NEW MEXICO

MOUNT TAYLOR URANIUM MINE/RIO GRANDE RESOURCES CORP.

URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY

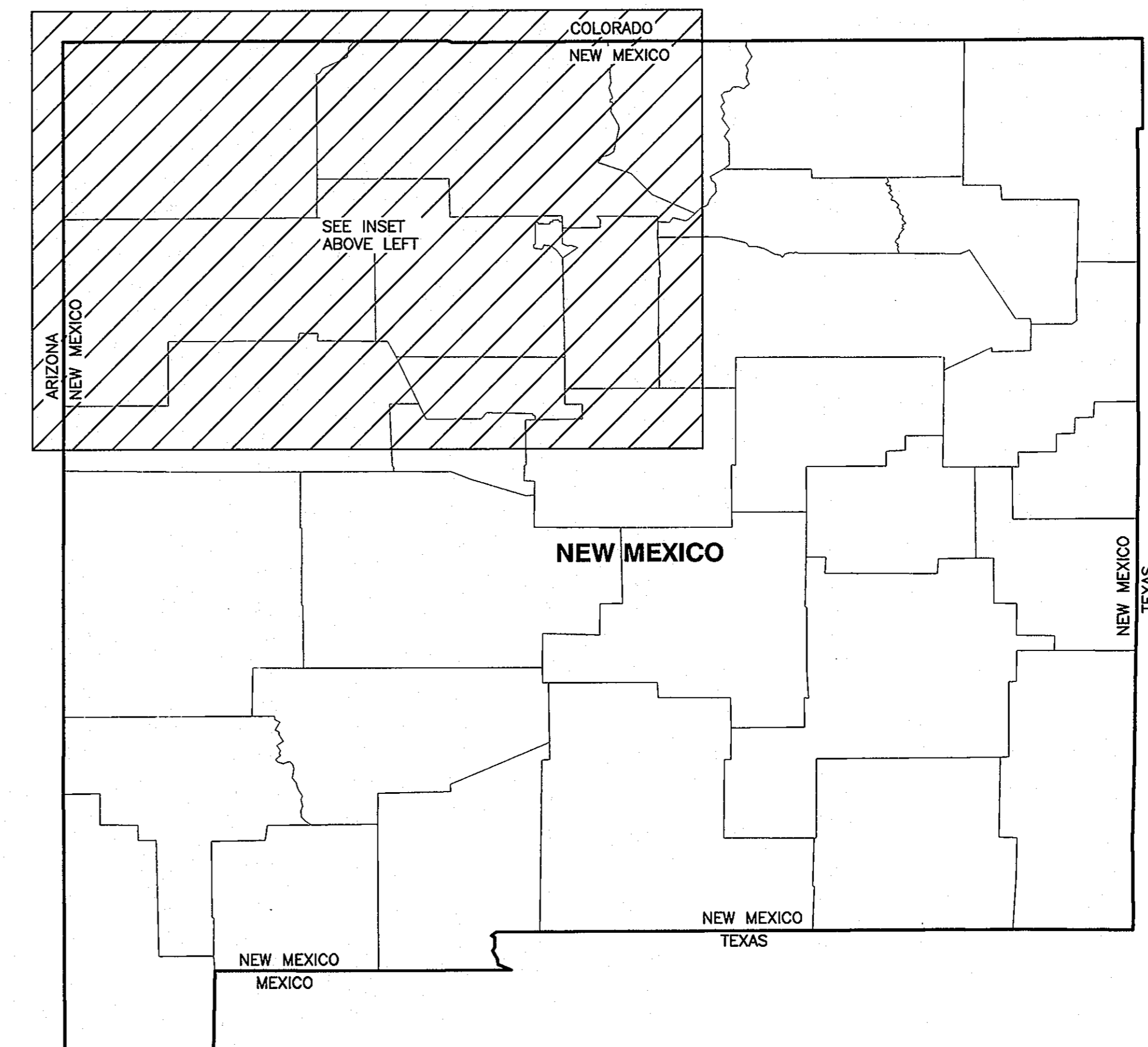


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*** REVISION BLOCK ***		



LOCATION MAP
NOT TO SCALE

SHEET INDEX	
SHEET NUMBER	SHEET TITLE
1	COVER SHEET
2	SYMBOLS & LEGEND (SHEET 1 OF 2)
3	SYMBOLS & LEGEND (SHEET 2 OF 2)
4	URANIUM ION EXCHANGE EQUIPMENT LAYOUT PLAN
5	URANIUM ION EXCHANGE FOUNDATION CONTAINMENT PLAN
6	URANIUM ION EXCHANGE MISCELLANEOUS DETAILS
7	URANIUM ION EXCHANGE PROCESS FLOW DIAGRAM
8	MOLYBDENUM AND SELENIUM PROCESS FLOW DIAGRAM
9	URANIUM P&ID-MINE WATER WET WELL
10	URANIUM P&ID-ION EXCHANGE COLUMNS (TRAINS 1 & 2)
11	URANIUM P&ID-RESIN STORAGE AND TRANSFER
12	Mo-Se P&ID-Mo-Se SORBSTER STORAGE AND TRANSFER
13	MOLYBDENUM AND SELENIUM P&ID
14	MOLYBDENUM AND SELENIUM BUILDING LAYOUT AND CONTAINMENT PLAN



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 URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
COVER SHEET

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1	14
JOB NO. 150092	
TAB NO. COVER SHEET	
SHEET NO. 1 OF 14	

M:\Rio Grande Resources\150092_MT_Taylor_Mo_Se_Removal\000\Drawings\Plans\Civil\1 COVER SHEET.rvt
 Wednesday, May 20, 2015, 1:52:00 PM

FUNCTION SYMBOLS:

	CONTROL ROOM CONSOLES	FIELD MOUNTED	AUXILIARY CONTROL PANEL NORMALLY ACCESSIBLE TO OPERATOR
DISCRETE INSTRUMENTS			
DCS			
COMPUTER FUNCTION			
PLC			

LINE SYMBOLS:

	FLOW LINE
	CONTROL LINE (ELECTRICAL)
	HARDWARE
	DATA COMMUNICATIONS RS485, RS422 BETWEEN PLC AND DCS
	PID CONTROL LOOP
	AIR SUPPLY
	INTERLOCK
	SET VALUE HIGH (DCS) FOR VFD.
	SET VALUE LOW (DCS) FOR VFD.
	MANIPULATED VARIABLE FOR VFD.
	PROCESS VARIABLE FOR VFD.

LINE CONTINUATION ARROWS:

	TO/FROM ADJACENT DRAWING
	TO/FROM NON-ADJACENT DRAWING

ABBREVIATIONS

FRP	FIBERGLASS REINFORCED STEEL
RLS	RUBBER LINED STEEL
SS	STAINLESS STEEL
STEEL	CARBON STEEL
LPB	(PVC) POLYVINYL CHLORIDE
RO	RESIN IN
RI	RESIN OUT
MW	MINE WATER
RTW	RESIN TRANSFER WATER

MECHANICAL SYMBOLS:

	PUMP
	REDUCER
	FLANGE JOINT
	CAMLOCK FITTING
	FILTER
	FLEXIBLE JOINT
	VENTS
	AGITATOR
	MANHOLE
	PULSE DAMPENER
	RECEIVER
	RADIOACTIVE SOURCE
	EDUCTOR
	FLEXIBLE HOSE
	SONIC LEVEL SENSOR
	VERTICAL TURBINE PUMP
	PH INLINE ANALYZER

MISCELLANEOUS SYMBOLS:

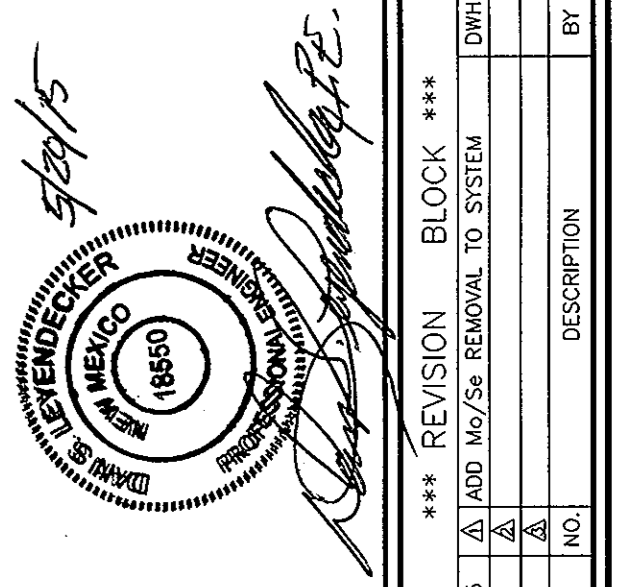
	MAG METER
	MOTOR ACTUATED VALVE WITH MANUAL HANDWHEEL
	BAG FILTER

VALVE SYMBOLS:

	VALVE - GENERAL
	VALVE - NORMALLY CLOSED
	BALL VALVE
	BUTTERFLY VALVE
	DIAPHRAGM VALVE MANUALLY OPERATED
	PRESSURE RELIEF VALVE SPRING OPERATED
	PRESSURE REDUCING VALVE OPERATED BY DOWNSTREAM PRESSURE
	BACK PRESSURE VALVE OPERATED BY UPSTREAM PRESSURE
	CHECK VALVE
	KNIFE GATE VALVE
	HAND VALVE MANUALLY OPERATED
	CONTROL VALVE - FLOW MODULATING 4-20mA /PNEUMATIC OPERATED MANUAL OVER-RIDE
	STRAINER

VALVE NOMENCLATURE

VXXX	PROCESS
↓	VALVE ID
↓	TRAIN (IF APPLICABLE)
↓	PROCESS
↓	VALVE
0	MINE WATER
1	ION EXCHANGE
2	RESIN OUT
3	RESIN IN
4	RESIN TRANSFER WATER



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SYMBOLS & LEGEND
 (SHEET 1 OF 2)

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


JOB NO.	150092
TAB NO.	SYMBOLS
SHEET NO.	2 OF 14

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XX = EQUIPMENT ID

- MW MINE WATER
- IX-(1-14) ION EXCHANGE COLUMN (1-14)
- RI RESIN IN
- RO RESIN OUT
- T-1 OVERFLOW TANK
- T-2A RESIN TRANSFER WATER STORAGE TANK
- T-2B RESIN TRANSFER WATER STORAGE TANK
- T-3A LOADED RESIN STORAGE TANK
- T-3B LOADED RESIN STORAGE TANK
- SP-1 SUMP PUMP

**P&ID SYMBOLS;
FIELD INSTRUMENTS**

	LEVEL INDICATOR		LEVEL ALARM HIGH HIGH by DCS
	FLOW INDICATOR		LEVEL ALARM HIGH by DCS
	LEVEL TRANSMITTER		LEVEL ALARM LOW by DCS
	FLOW TRANSMITTER		LEVEL ALARM LOW LOW by DCS
	LEVEL VALVE		FLOW ALARM LOW by DCS
	FLOW CONTROL VALVE		FLOW ALARM HIGH by DCS
	LEVEL INDICATOR TRANSMITTER		LEVEL INDICATOR CONTROL by DCS
	FLOW INDICATOR TRANSMITTER		FLOW INDICATOR CONTROL by DCS
	LEVEL SWITCH		FLOW RECORDER by DCS
	LEVEL SWITCH HIGH		PH INDICATOR CONTROL by DCS
	LEVEL SWITCH LOW		PH ALARM by DCS
	LEVEL SWITCH HIGH LOW		
	LEVEL CONTROL VALVE		
	FLOW SENSOR ELEMENT		
	LEVEL SENSOR ELEMENT		
	VARIABLE FREQUENCY DRIVE		
	PH INDICATOR TRANSMITTER		



Dan S. Leyendecker
 3/27/15

DRAWN BY: DWI	CHECKED BY: WLB
APPROVED BY: DSL	SCALE: AS SHOWN
DATE: MARCH 2015	

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 URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
SYMBOLS & LEGEND
 (SHEET 2 OF 2)

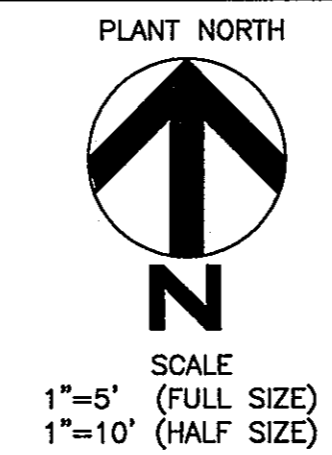
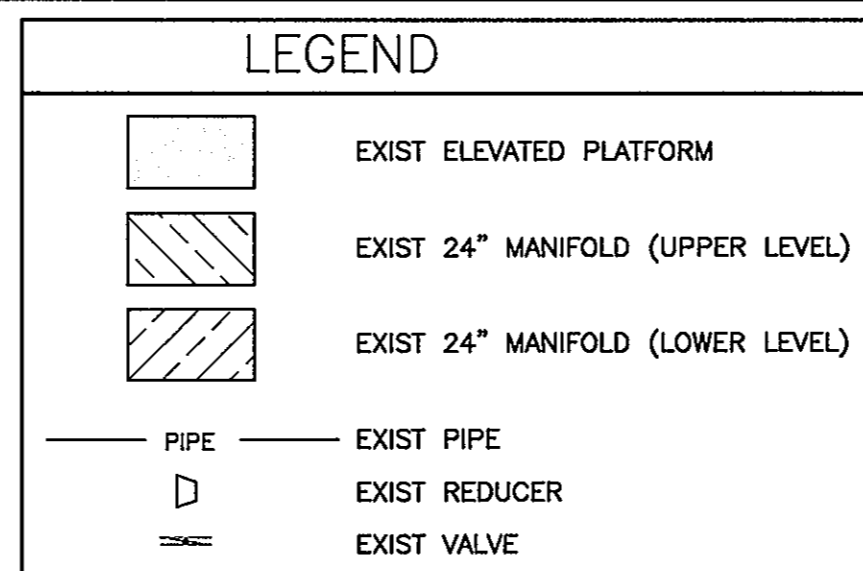
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3	14
JOB NO: 150092	
TAB NO: LEGEND	
SHEET NO: 3 OF 14	

NO.	DATE	NO.	DESCRIPTION
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3		A	

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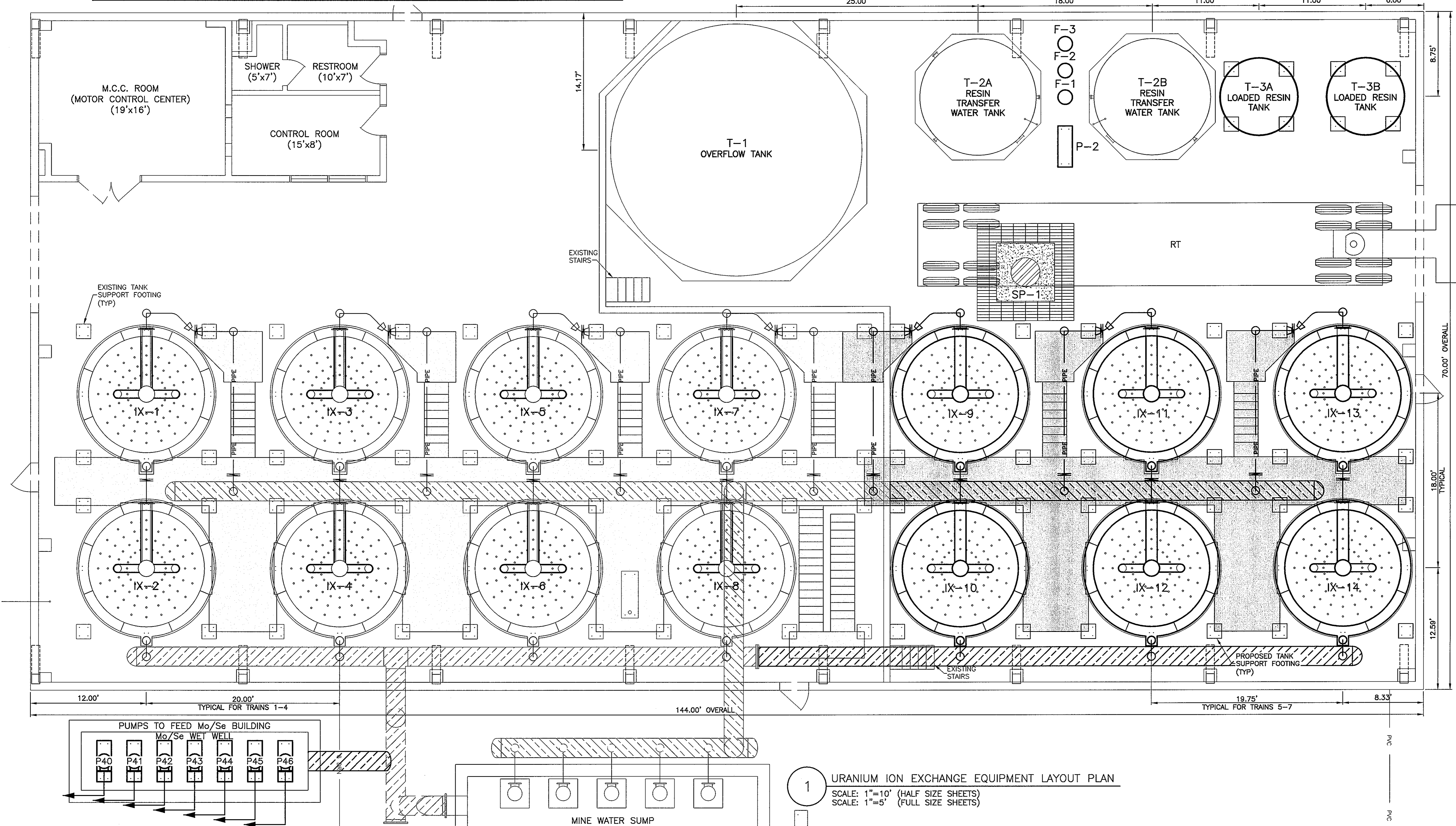
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IX-(9-14)	PROPOSED IX COLUMNS	12'Ø x 12'H	10,000 GAL
T-1	OVERFLOW TANK	26'Ø x 24'H	95,000 GAL
T-2A	RESIN TRANSFER WATER STORAGE TANK	12'Ø x 20'H	16,000 GAL
T-2B	RESIN TRANSFER WATER STORAGE TANK	12'Ø x 20'H	16,000 GAL
T-3A	LOADED RESIN STORAGE TANK	8'Ø x 20'H	7,500 GAL
T-3B	LOADED RESIN STORAGE TANK	8'Ø x 20'H	7,500 GAL
SP-1	SUMP AND GRATE	6'Ø x 5' DEEP	1,000 GAL
P-2	RESIN TRANSFER WATER PUMP	TBD	
F-(1-3)	FILTER	TBD	
RT	RESIN TANKER		1,500 CF



*** REVISION BLOCK ***

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DRAWN BY: DWI
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APPROVED BY: DSL
SCALE: SHOWN
MARCH 2015



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URANIUM ION EXCHANGE EQUIPMENT LAYOUT PLAN

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4	14
JOB NO:	150092
TAB NO:	PROP. EQUIP.
SHEET NO:	4 OF 14

U:\No Storage - 2015\150092 - Mt. Taylor Mo/Se Removal\000\Drawings\Plans\Civil4 - URANIUM ION EXCHANGE EQUIPMENT LAYOUT PLAN.dwg

1 URANIUM ION EXCHANGE EQUIPMENT LAYOUT PLAN
SCALE: 1"=10' (HALF SIZE SHEETS)
SCALE: 1"=5' (FULL SIZE SHEETS)

LEGEND

EXISTING TRENCH DRAIN

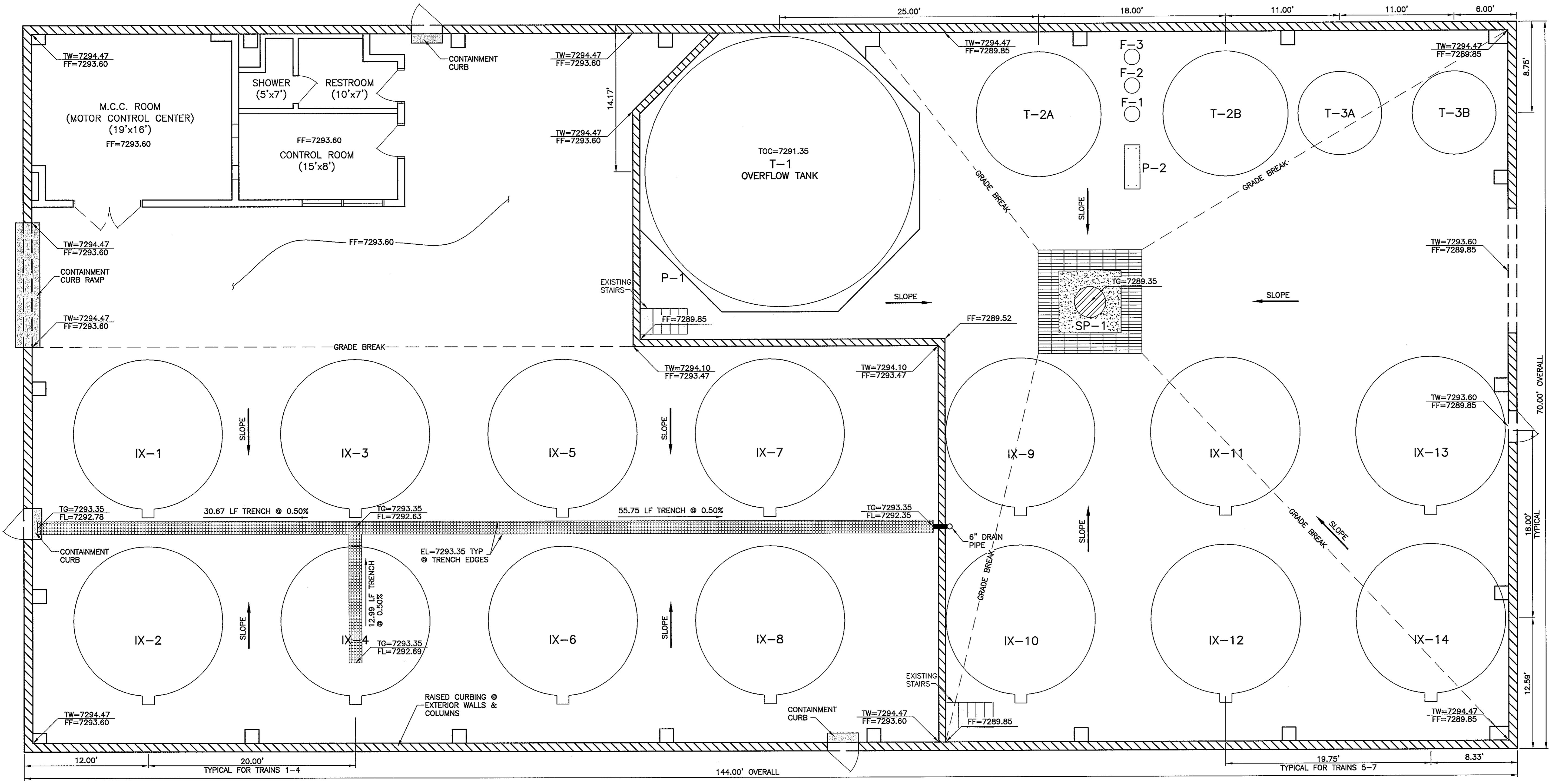
FF INDICATES FINISH FLOOR ELEVATION
 FL INDICATES FLOWLINE ELEVATION
 EL INDICATES ELEVATION
 TW INDICATES TOP OF WALL ELEVATION
 TOC INDICATES TOP OF CONCRETE ELEVATION
 TG INDICATES TOP OF GRATE ELEVATION

PLANT NORTH

SCALE
 1"=5' (FULL SIZE)
 1"=10' (HALF SIZE)

DAN L. LEVINSKY, P.E.
 1989
 PROFESSIONAL ENGINEER
 STATE OF TEXAS

REVISION BLOCK ***
 ADD MO/SR REMOVAL TO SYSTEM
 DATE NO. DESCRIPTION



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 URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
 URANIUM ION EXCHANGE
 FOUNDATION CONTAINMENT PLAN

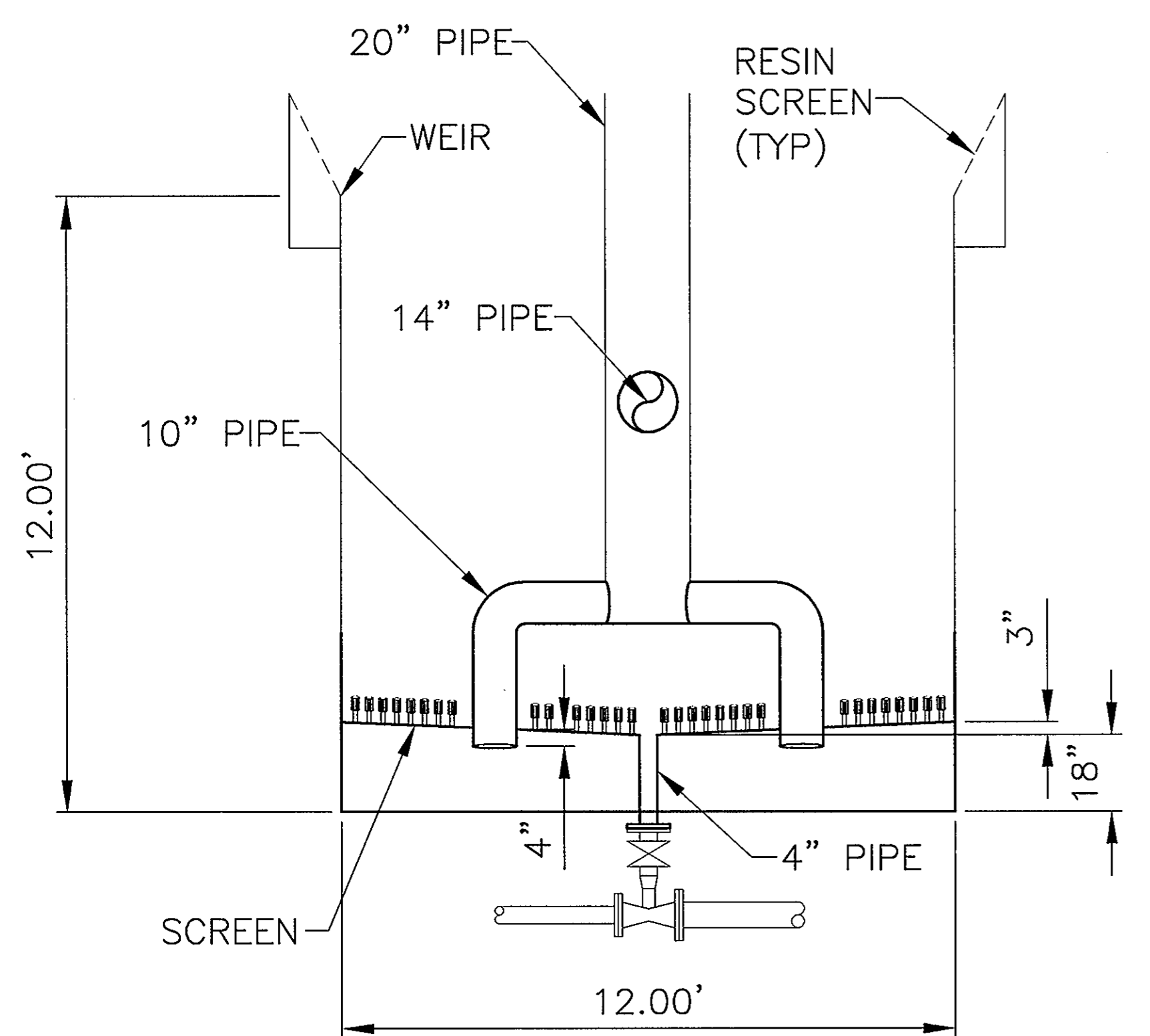
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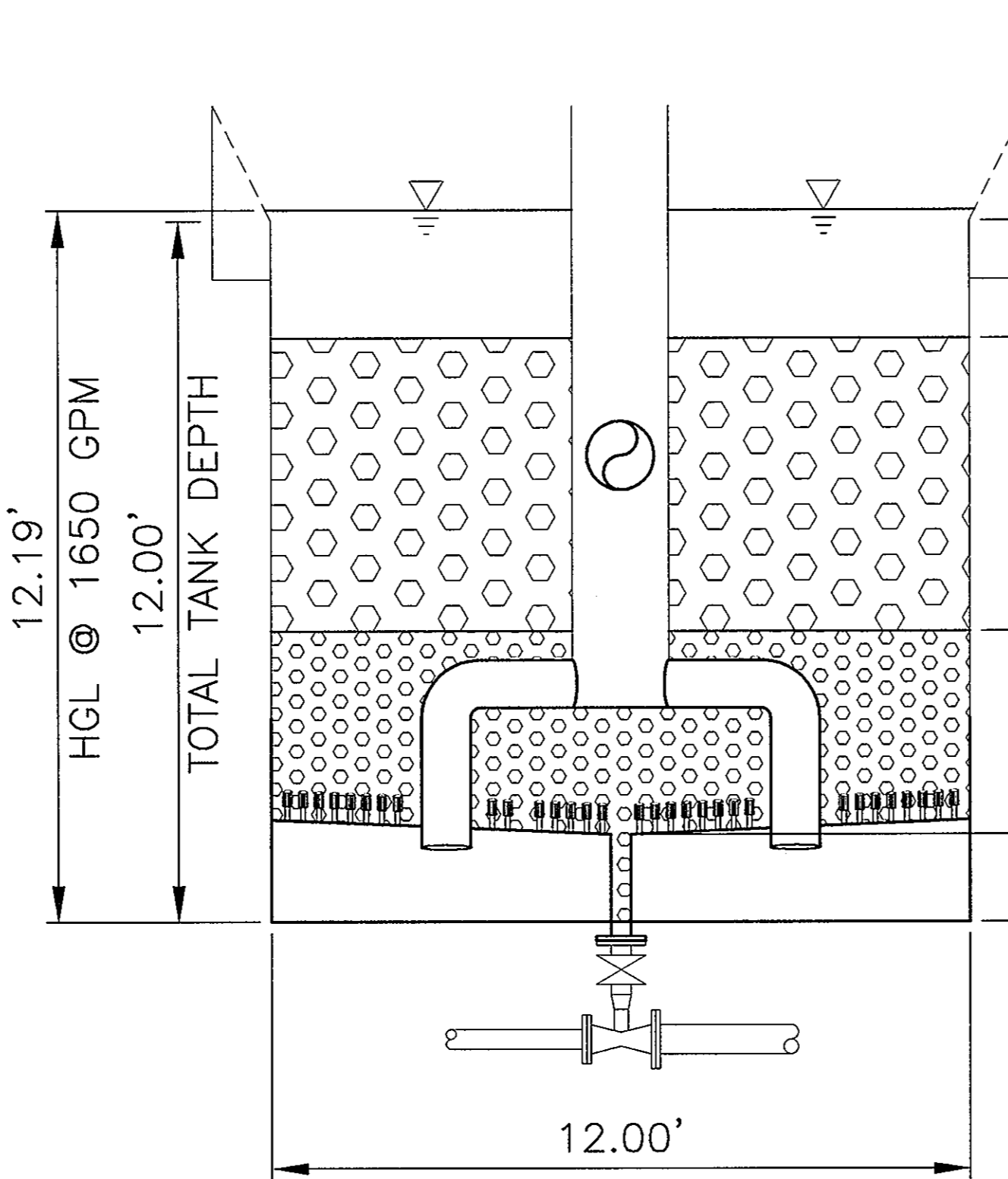
2 URANIUM ION EXCHANGE FOUNDATION CONTAINMENT PLAN
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5	14
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TAB NO:	PROP. EQUIP.
SHEET NO:	5 OF 14

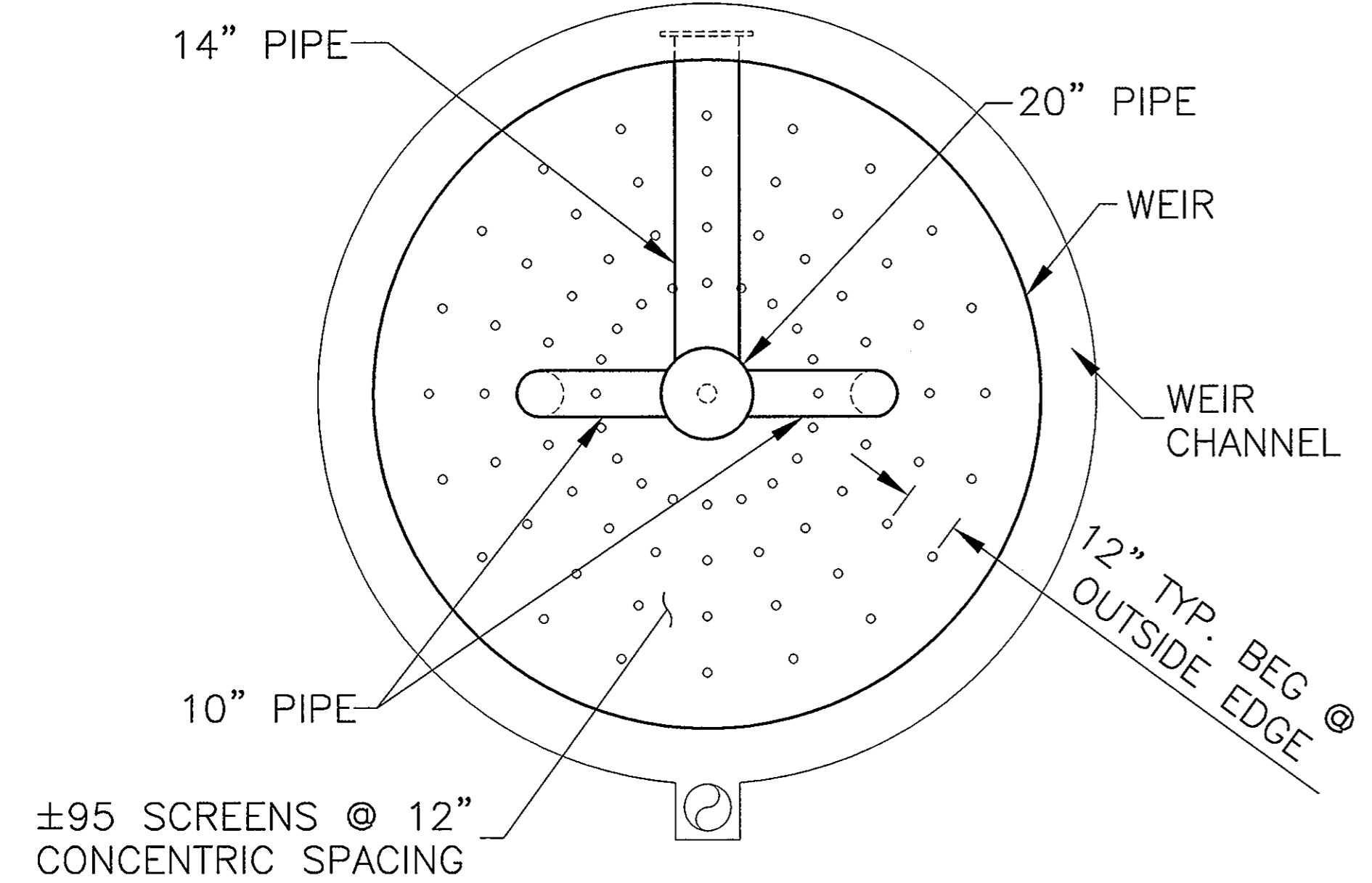
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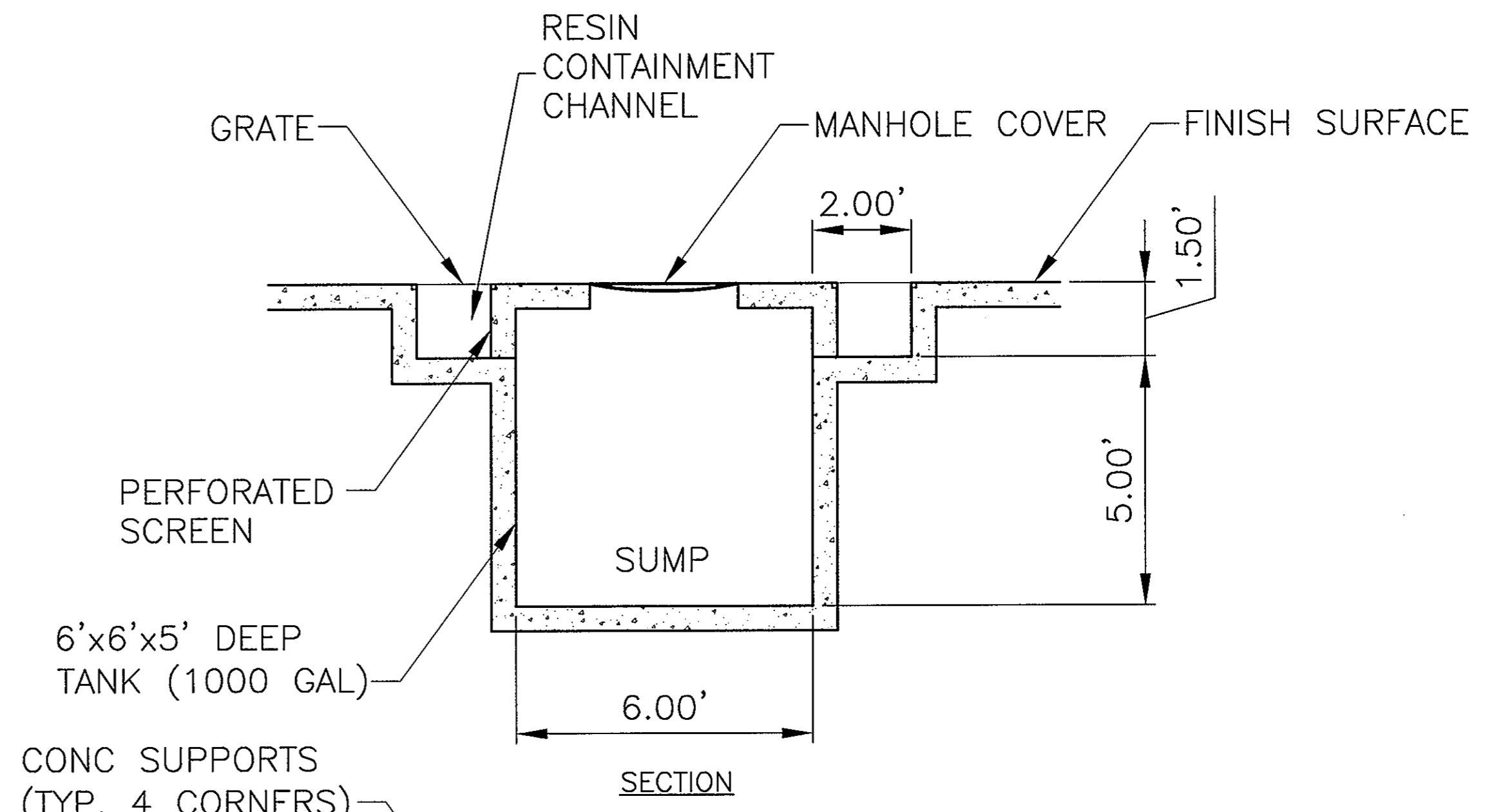


4 RESIN & HYDRAULIC PROFILE
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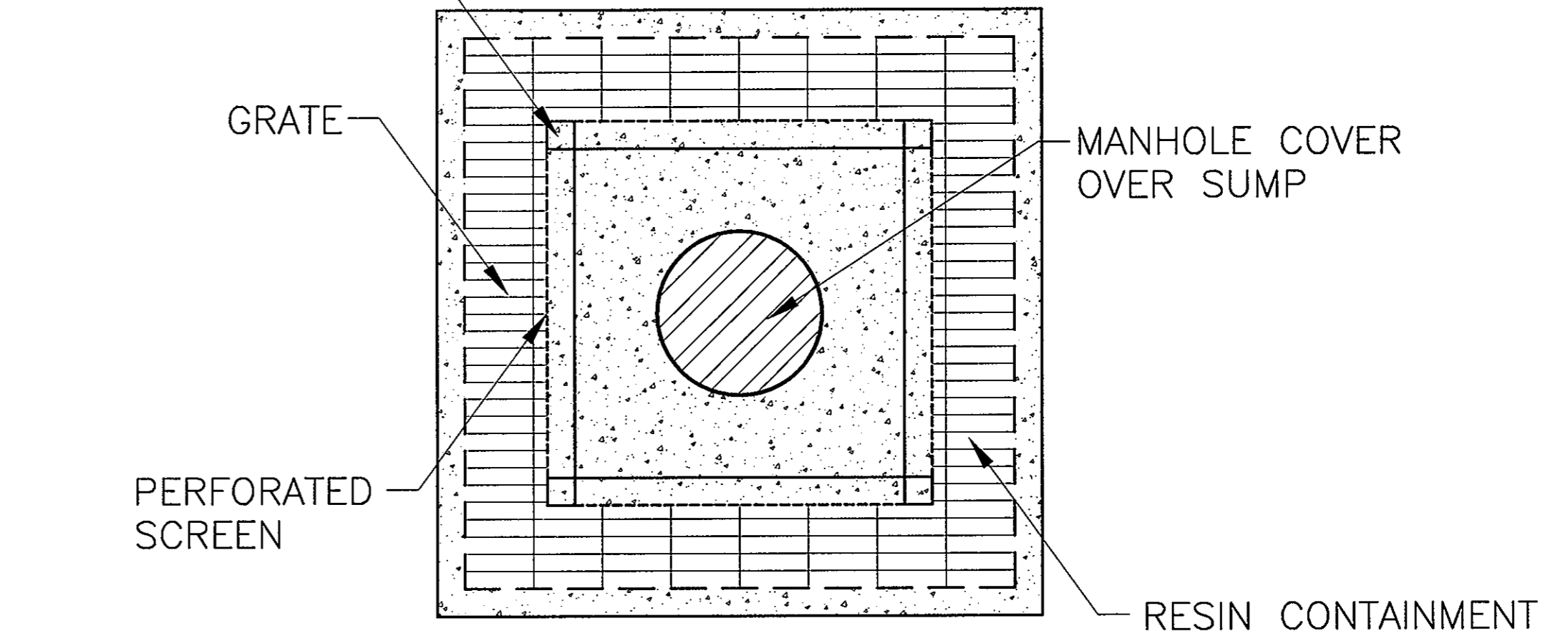


PLAN

3 IX COLUMN
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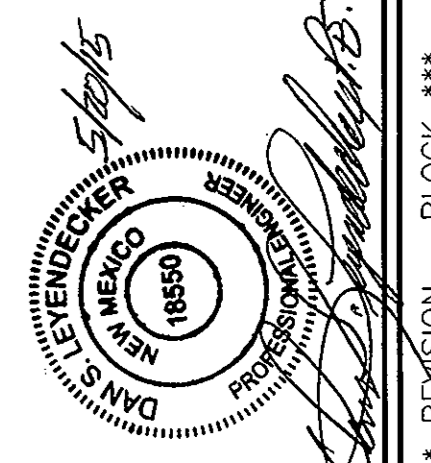


SECTION



PLAN

5 SUMP DETAIL
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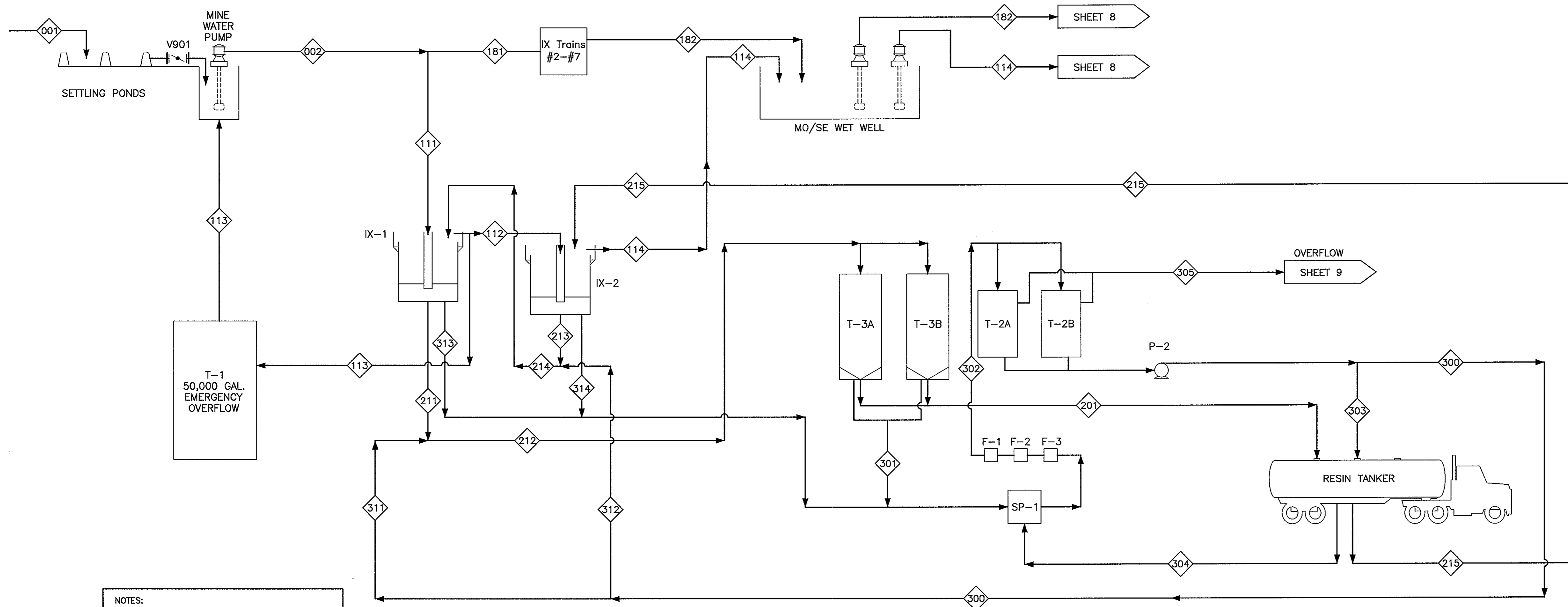


NO.	DATE	DESCRIPTION	BY
1		REVISION	BLOCK ***
2		ADD M/S REMOVAL TO SYSTEM	DWH
3	3.13.15		

MT. TAYLOR URANIUM MINE/RIO GRANDE RESOURCES CORP., NEW MEXICO
URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
URANIUM ION EXCHANGE
MISCELLANEOUS DETAILS

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FAX: (361) 884-0999
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U:\Pro Geomac Resources\150092.MT Taylor Moly Sulf Removal\000 Drawings\Plans\Civil\G URANIUM ION EXCHANGE MISCELLANEOUS DETAILS.dwg
Last Modified: 3/13/2015 10:53:03 AM



- NOTES:
1. LEAD AND TAIL IX COLUMNS OF TRAIN NUMBER (1) OF SEVEN (7) SHOWN
 2. NEW RESIN TRANSFER LINE 4" @ 5 FPS THEREFORE WATER FLOW @ 200 GPM.
 3. V901 - MANUAL FLOW INLET TO WET WELL.

6 URANIUM ION EXCHANGE PROCESS FLOW DIAGRAM
NOT TO SCALE

XXX
 L STREAM ID
 - TRAIN #
 PROCESS

PROCESS

- 0 MINE WATER
- 1 ION EXCHANGE
- 2 RESIN TRANSFER
- 3 RESIN TRANSFER WATER

8=TRAINS 2-7 COMBINED
 0=ALL TRAINS COMBINED

PROCESS		URANIUM ION EXCHANGE FLOW AND MASS BALANCE																							
		ION EXCHANGE								RESIN TRANSFER					RESIN TRANSFER WATER										
STREAM NO.		001	002	111	112	114	181	182	201	211	212	213	214	215	300	301	302	303	304	305	311	312	313	314	
DESCRIPTION		RAW MINE WATER	SETTLED MINE WATER	U ₃ O ₈ TRAIN #1 LEAD COLUMN FEED	U ₃ O ₈ TRAIN #1 LEAD COLUMN DISCHARGE / TAIL COLUMN FEED	OVERFLOW	U ₃ O ₈ TRAIN #1 TAIL COLUMN TREATED WATER	U ₃ O ₈ IX TRAINS #2-#7 FEED	U ₃ O ₈ IX TRAINS #2-#7 TREATED WATER	LOADED RESIN TO RESIN TANKER	U ₃ O ₈ TRAIN #1 LEAD COLUMN LOADED RESIN	LOADED RESIN AND RTW	U ₃ O ₈ TRAIN #1 TAIL COLUMN PARTIALLY LOADED RESIN	PARTIALLY LOADED RESIN AND RTW	STRIPPED RESIN	RTW TO EDUCTOR OF LEAD OR TAIL IX COLUMN	LOADED RESIN STORAGE TANK RTW RETURN	FILTERED WATER BACK TO RTW STORAGE TANK	RESIN TRANSFER WATER TO RESIN TANKER	RESIN TANKER WATER TO SUMP	RESIN TRANSFER WATER STORAGE TANK OVERFLOW	RTW TO EDUCTOR OF LEAD COLUMN	RTW TO EDUCTOR OF TAIL COLUMN	U ₃ O ₈ TRAIN #1 LEAD COLUMN RTW RETURN	U ₃ O ₈ TRAIN #1 TAIL COLUMN RTW RETURN
ION EXCHANGE	Q _{IX} (gpm)	10,000	10,000	1,429	1,429	-	1,429	8,571	8,571	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Q _{IX} (ft ³ /min)	1,337	1,337	191	191	-	191	1,146	1,146	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SOLIDS (mg/L)	1,000	100	100	100	-	100	100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	SOLIDS (Tons/h)	2.5	0.25	0.04	0.04	-	0.04	0.21	0.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTALS	TRANSFER TIME (min)	-	-	-	-	-	-	-	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120
	SP.GR. LIQUOR	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	U ₃ O ₈ (mg/l)	0.1	0.1	0.1	0.020	-	0.017	0.1	0.017	0.3	961	0.3	35	0	-	-	-	-	-	-	-	-	-	-	-
	U ₃ O ₈ (lbs/day)	12	12	1.7	0.34	-	0.29	10.3	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	U ₃ O ₈ (lbs/ft ³)	0	0	0	0	-	0	0	0	0	0.06	0	0.002	0	-	-	-	-	-	-	-	-	-	-	-
	Mo (mg/L)	0.530	0.530	0.530	0.530	0.530	0.530	0.530	0.530	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Se (mg/L)	0.090	0.090	0.090	0.090	0.090	0.090	0.090	0.090	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Q _{TOTAL} (gpm)	10,000	10,000	1,429	1,429	-	1,429	8,571	8,571	225	25	225	25	225	225	200	200	200	200	200	200	200	200	200	200
	Water (Tons/h)	2,502	2,502	357	357	-	357	2,145	2,145	56	6	56	6	56	56	50	50	50	50	50	50	50	50	50	50
	TOTAL (Tons/h)	2,505	2,503	358	358	-	358	2,145	2,145	56	6	56	6	56	56	50	50	50	50	50	50	50	50	50	50
RESIN TRANSFER	Q _{RESIN} (gpm)	-	-	-	-	-	-	-	-	25	25	25	25	25	-	-	-	-	-	-	-	-	-	-	-
	Q _{RESIN} (ft ³ /min)	-	-	-	-	-	-	-	-	3.3	3.3	3.3	3.3	3.3	-	-	-	-	-	-	-	-	-	-	-
RESIN TRANSFER WATER	V _{RESIN} (ft ³)	-	-	-	-	-	-	-	400	400	400	400	400	400	-	-	-	-	-	-	-	-	-	-	-
	Q _{RTW} (gpm)	-	-	-	-	-	-	-	200	200	200	200	200	200	200.0	200.0	200.0	200	200	200	200	200.0	200.0	200.0	200.0
	Q _{RTW} (ft ³ /min)	-	-	-	-	-	-	-	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27

DAN S. LITENDECKER
 NEW MEXICO
 18560
 PROFESSIONAL ENGINEER

3.13.15
 ADD Mo/Se REMOVAL TO SYSTEM

REVISION BLOCK ***
 APPROVED BY: DSL
 SCALE: SHOWN
 DATE: MARCH 2015

MT. TAYLOR URANIUM MINE/RIO GRANDE RESOURCES CORP., NEW MEXICO
 URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
 URANIUM ION EXCHANGE
 PROCESS FLOW DIAGRAM

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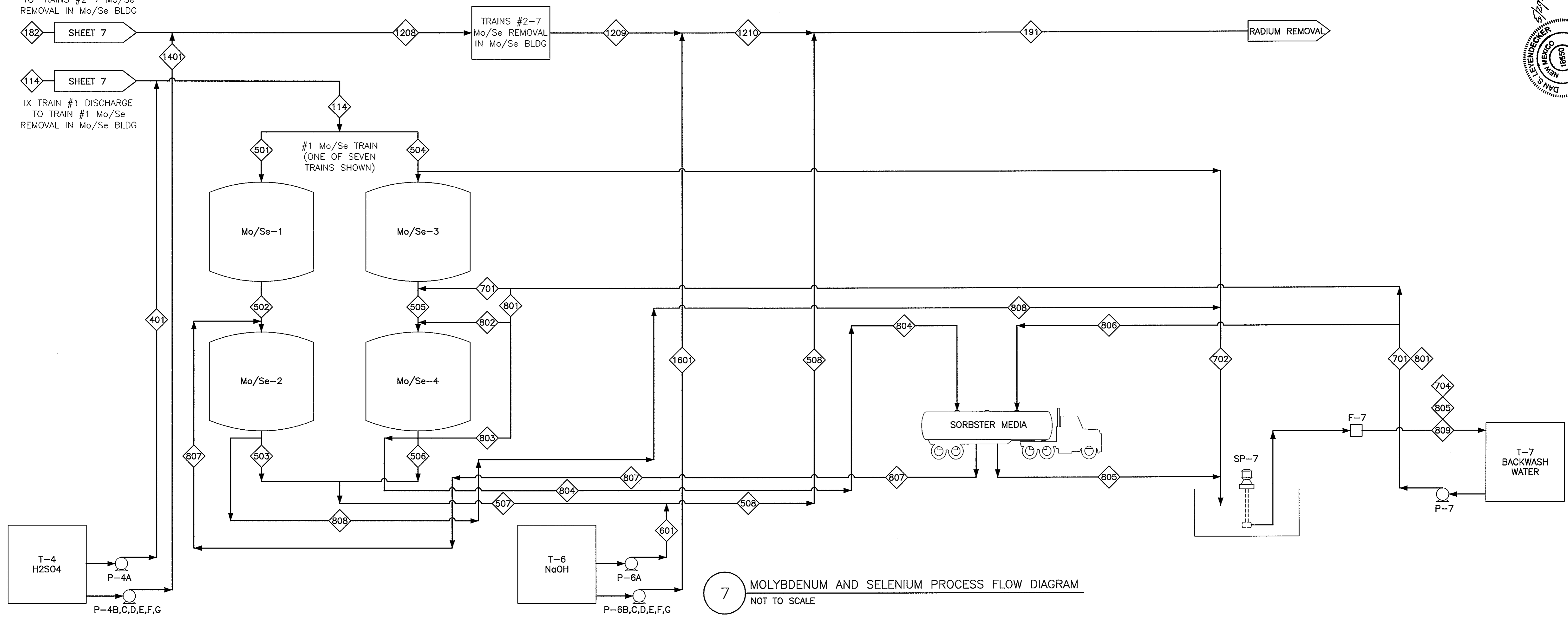
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 WWW.LNW.COM

881 NAVIGATION, SUITE 300
 CORPUS CHRISTI, TEXAS 78408
 TYPE TRAIN NO. 7-49

U:\Info Source\References\150092_M_Taylor_May_Sat_Removal\000\Drawings\Process\Flow Diagram.dwg
 Wednesday, May 20, 2015, 2:02pm

IX TRAIN #2-7 DISCHARGE
TO TRAINS #2-7 Mo/Se
REMOVAL IN Mo/Se BLDG

SHEET 7
IX TRAIN #1 DISCHARGE
TO TRAIN #1 Mo/Se
REMOVAL IN Mo/Se BLDG



7 MOLYBDENUM AND SELENIUM PROCESS FLOW DIAGRAM
NOT TO SCALE

FLOW AND MASS BALANCE

PROCESS	MOLYBDENUM/SELENIUM ADSORBENT MEDIA															PH ADJUSTMENT				MEDIA BACKWASH				MEDIA TRANSFER												
	STREAM NO.	114	115	501	502	503	504	505	506	507	508	182	1208	1209	1210	191	401	1401	601	1601	701	702	703	704	801	802	803	804	805	806	807	808	809			
MOLYBDENUM/SELENIUM ADSORBENT FEED	Q _{Mo}	1,429	1,429	714	714	714	714	714	714	1,429	1,429	8,571	8,573	8,573	8,573	10,002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Q _{Se}	191	191	96	96	96	96	96	96	191	191	1,146	1,146	1,146	1,146	1,337	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	SOLIDS	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	SOLIDS (Tons/h)	0.036	0.036	0.018	0.018	0.018	0.018	0.018	0.018	0.018	0.036	0.036	0.215	0.215	0.215	0.215	0.250	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
TOTALS	SP.GR.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	U ₃ O ₈ (mg/L)	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Mo (mg/l)	0.530	0.530	0.530	0.002	0.002	0.530	0.002	0.002	0.002	0.002	0.530	0.530	0.002	0.002	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mo (lbs/day)	9.10	9.10	4.55	0.02	0.02	4.55	0.02	0.02	0.04	0.04	54.59	54.58	0.23	0.23	0.23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Se (lbs/day)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Se (lbs/ft ³)	0.090	0.090	0.090	0.001	0.001	0.090	0.001	0.001	0.001	0.001	0.090	0.090	0.001	0.001	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Q _{Mo}	1,429	1,429	714	714	714	714	714	714	1,429	1,429	8,571	8,571	8,573	8,573	10,002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Water (Tons/h)	357	357	179	179	179	179	179	179	358	358	89	2,145	2,145	2,145	2,145	2,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	TOTAL (Tons/h)	358	358	179	179	179	179	179	179	358	358	90	2,145	2,145	2,146	2,146	2,503	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	ACID ADDITION	Q _{acid} (gpm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.27	1.60	1.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Q _{acid} (gpd)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	384	2,302	2,685	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Initial pH		-	9.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.70	9.70	9.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Final pH		9.70	6.27	6.27	6.27	6.27	6.27	6.27	6.27	6.27	7.00	9.70	6.27	6.27	7.00	7.00	6.27	6.27	6.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
CAUSTIC ADDITION	Q _{caustic} (gpm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0036	0.0213	0.0249	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Q _{caustic} (ft ³ /min)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0005	0.0029	0.0033	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Initial pH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.27	6.27	6.27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Final pH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.00	7.00	7.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
MEDIA TRANSFER	Q _{media} (gpm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	400	100	300	774	400	400	774	400	400			
	Q _{media} (ft ³ /min)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	V _{media} (ft ³)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Q _{mtw} (gpm)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
MEDIA TRANSFER WATER	Q _{mtw} (ft ³ /min)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Q _{mtw} (ft ³ /min)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

MT. TAYLOR URANIUM MINE/RIO GRANDE RESOURCES CORP., NEW MEXICO
URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
MOLYBDENUM AND SELENIUM
PROCESS FLOW DIAGRAM

DATE: MARCH 2015

BY: [Signature]

DESCRIPTION: ADD Mo/Se REMOVAL TO SYSTEM

MT. TAYLOR URANIUM MINE/RIO GRANDE RESOURCES CORP., NEW MEXICO
URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
MOLYBDENUM AND SELENIUM
PROCESS FLOW DIAGRAM

engineers | architects | contractors

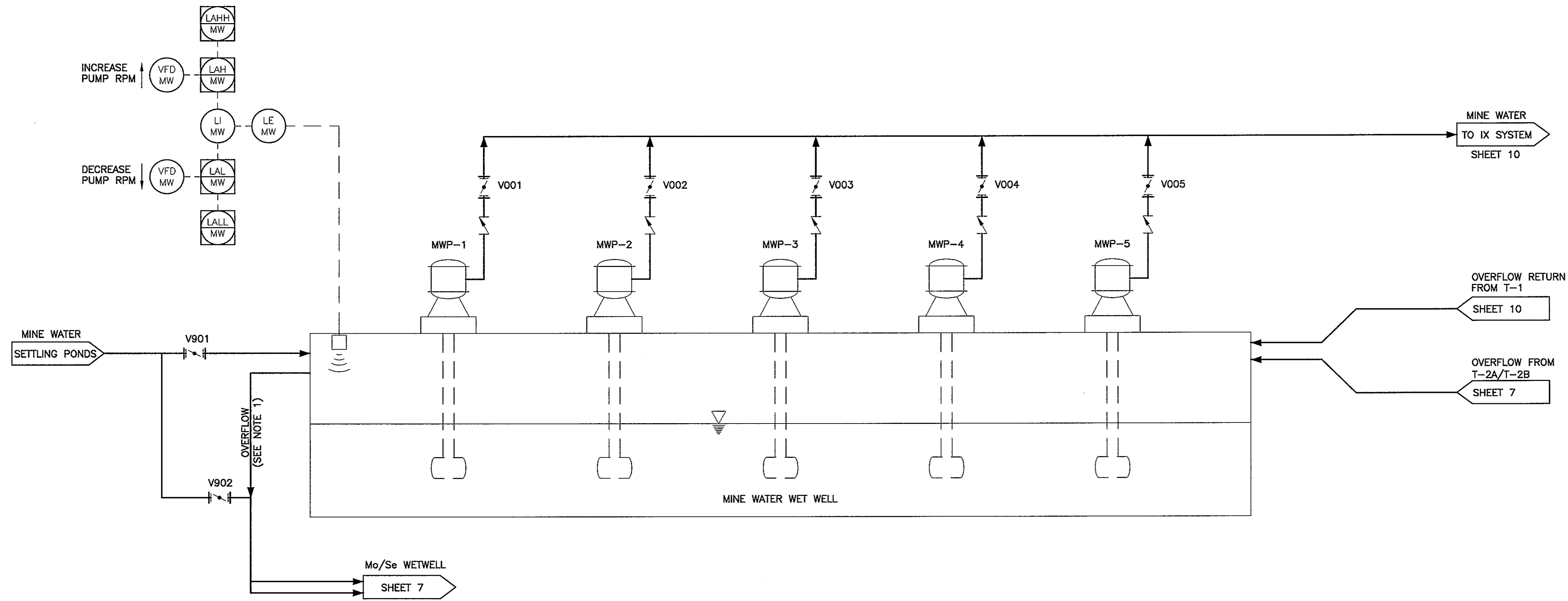
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800 NAVIGATION SUITE 300
DALLAS TEXAS 75408
TYPE: PFD NO. 1-2-20

8 14

JOB NO: 150092
TAG NO: PFD
SHEET NO: 8 OF 14

U:\No. 80906 - Resources\150092 - Mt. Taylor - Misc. Self Removal\000 Drawings\Plant\GVA\B MOLYBDENUM AND SELENIUM PROCESS FLOW DIAGRAM.dwg
Wednesday, July 23, 2015, 2:02pm



MWP-1 MWP-2 MWP-3 MWP-4 MWP-5

MINE WATER TRANSFER PUMPS

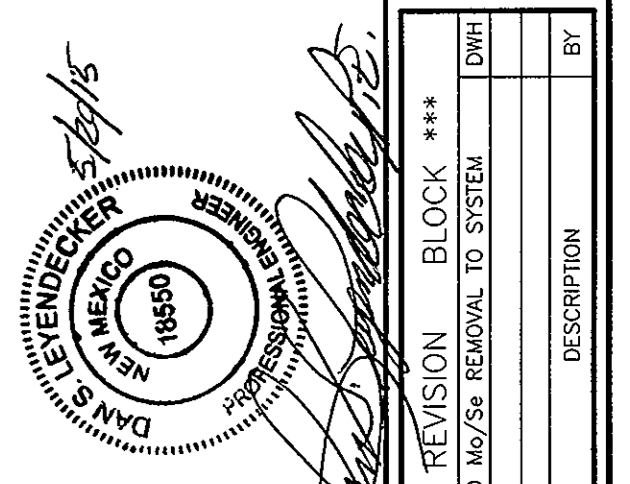
GPM 2,500 @ 40' OF HEAD
 MOTOR HP: 40
 MATERIAL: CAST STEEL, BRONZE TRIM

MINE WATER WET WELL

SIZE: 30'x6'x8'
 CAPACITY: 10,800 GALLONS

NOTE:

- OVERFLOW WILL ONLY BE USED DURING EXTREME HIGH WATER LEVELS RESULTING FROM ELECTRICAL, EQUIPMENT, OR INSTRUMENT FAILURE. THIS OVERFLOW WILL BE DIRECTED TO THE MO/SE WET WELL NOT TO RADIUM REMOVAL.
- LAH ALARM WILL NOTIFY THE LEVEL IN WET WELL IS ABOVE LEVEL SET POINT. OPERATOR WILL MONITOR THIS LEVEL AND HAS THE OPTION TO THROTTLE BACK V901 (FLUID FROM PONDS).
- LAHH WILL ONLY OCCUR IF V901 THROTTLING HAS NOT PREVENTED LEVEL TO INCREASE. THE OVERFLOW RATE WILL BE THE DIFFERENCE OF FLUID NOT BEING HANDLED IN URANIUM IX SYSTEM.
- V901 IS MANUAL VALVE THAT CONTROLS INLET FLOW TO WET WELL.



NO.	DATE	DESCRIPTION
1		REVISION BLOCK ***
2	3.13.15	ADD M9/S9 REMOVAL TO SYSTEM

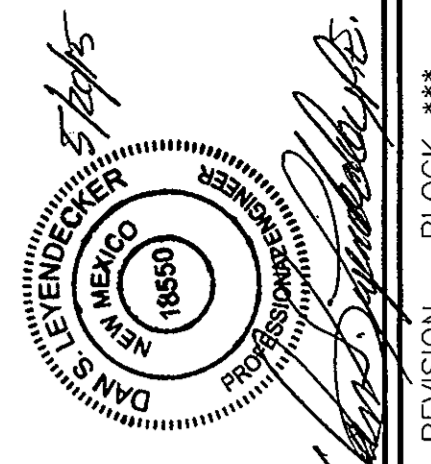
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 CHECKED BY: JWB
 APPROVED BY: DSL
 SCALE: N.T.S.
 DATE: MARCH 2015

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 URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
 URANIUM P&ID—MINE WATER WET WELL

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C:\Ino Grands 885\2015\150092.M Taylor Mo/Sr Removal\000\Drawings\Plans\CWA\3 URANIUM P&ID-MINE WATER WET WELL.dwg
 Wednesday, May 20, 2015, 2:09pm

** LEAD AND TAIL IX COLUMNS OF TRAINS ONE (1) AND TWO (2) OF SEVEN (7) SHOWN



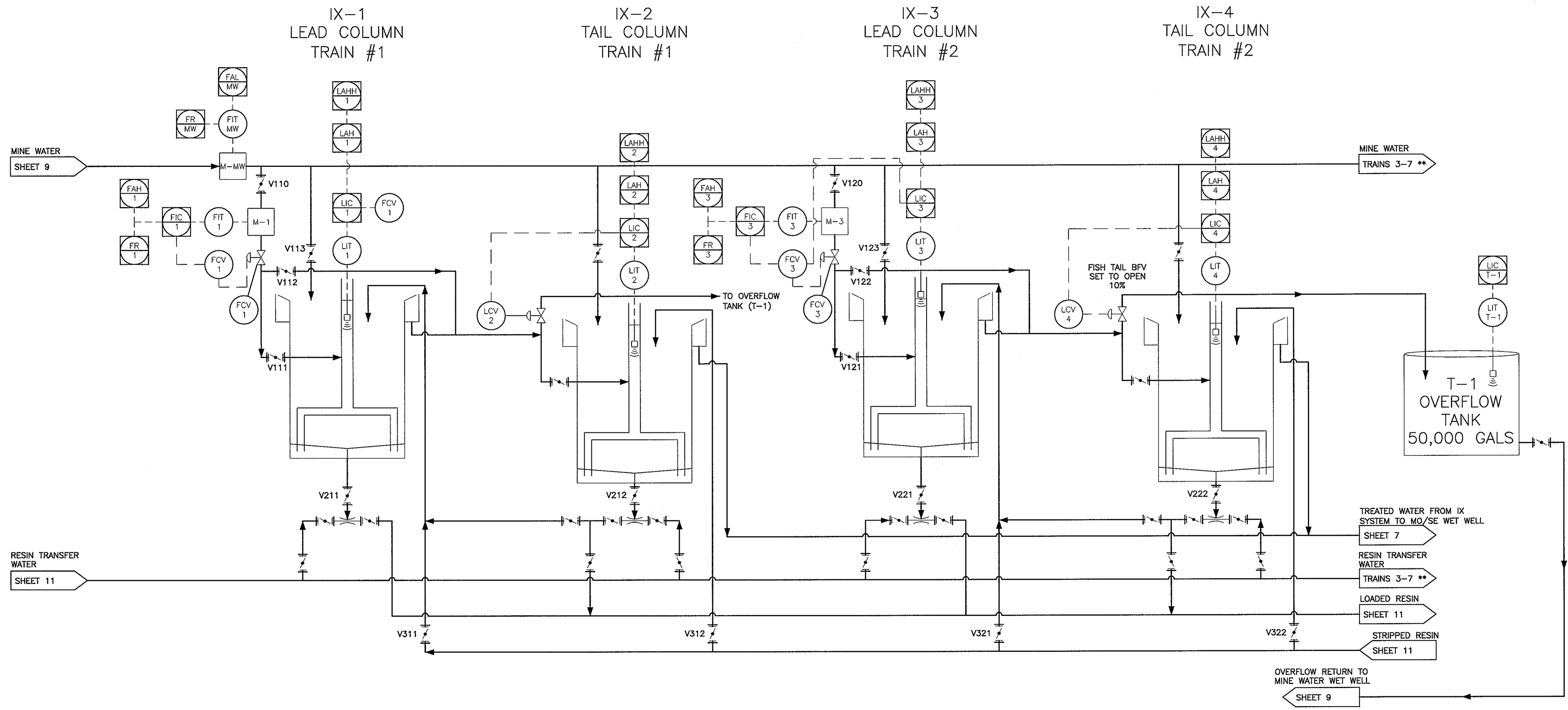
DATE	NO.	DESCRIPTION
3.13.15	1	ADD MO/SE REMOVAL TO SYSTEM
	2	REVISION
	3	BLOCK
	4	***

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 CHECKED BY: WLB
 APPROVED BY: DSL
 SCALE: SHOWN
 MARCH 2015

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 URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
 URANIUM P&ID-ION EXCHANGE COLUMNS (TRAINS 1 & 2)

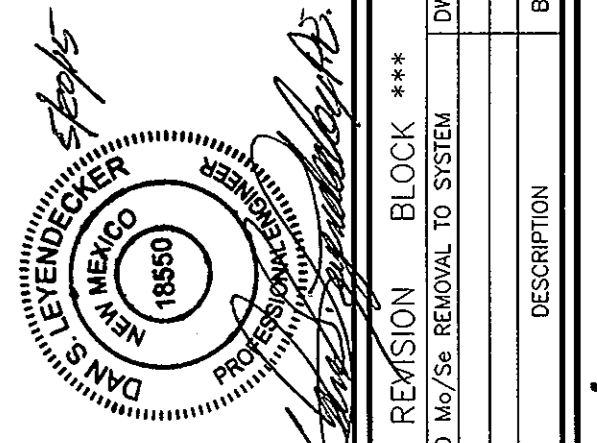
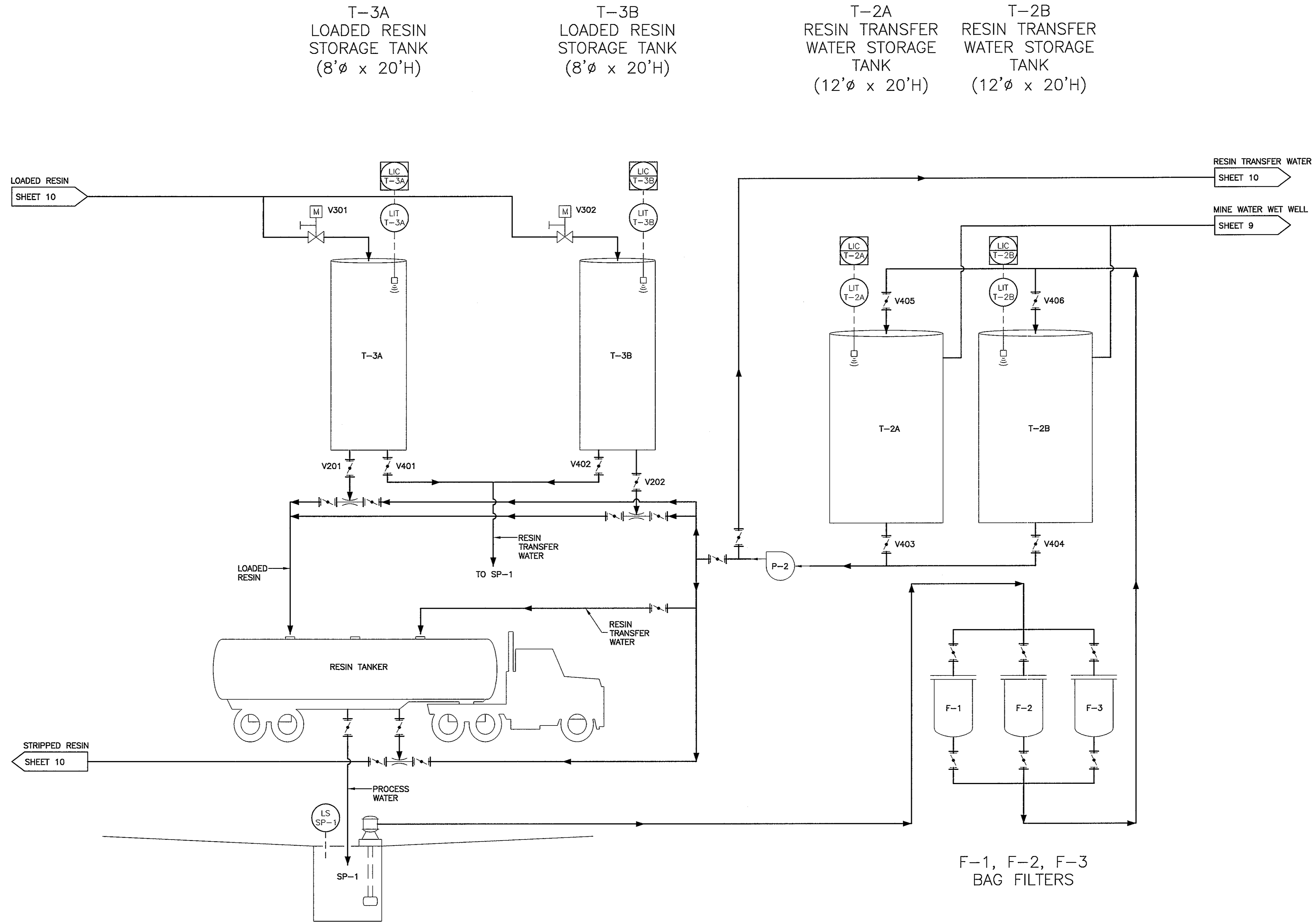
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 DALLAS, TEXAS 75408
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10	14
JOB NO:	150092
TAB NO:	IX PID
SHEET NO:	10 OF 14



C:\no_scripts\150092.mtaylor.may.set.removal\000\Drawings\Plans\CWA\10 URANIUM P&ID-ION EXCHANGE COLUMNS (TRAINS 1 & 2).dwg
 Wednesday, May 20, 2015, 10:29:21

A:\No_Donors_Plan\150092_Mt_Taylor_May_Sel_Removal\000\Drawings\Process\URANIUM P&ID-Resin Storage and Transfer.dwg
 3/13/15 10:20:15 AM
 3/13/15 10:20:15 AM



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 CHECKED BY: MBL
 APPROVED BY: DSL
 SCALE: SHOWN
 DATE: MARCH 2015

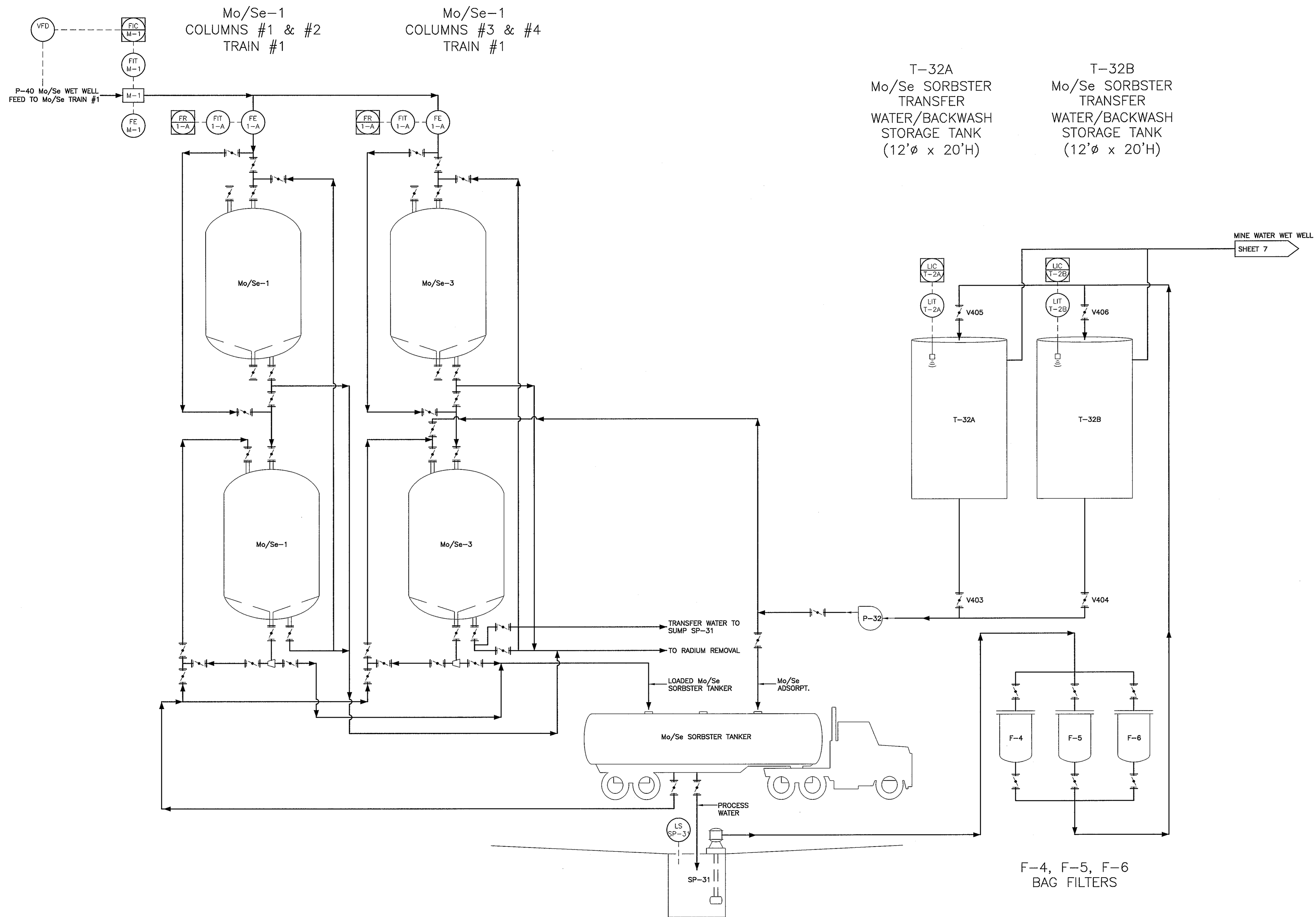
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URANIUM P&ID-RESIN STORAGE AND TRANSFER

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11 / 14
 JOB NO: 150092
 TAB NO: RS PID
 SHEET NO: 11 OF 14

NO.	DATE	NO.	DESCRIPTION
1	3.13.15	ADD M/S	REMOVAL TO SYSTEM
*** REVISION BLOCK ***			

C:\Users\jgomez\Documents\150092.MT Taylor Mo/Se Removal\000\Drawings\Plans\CW\12 Mo-Se P&ID-Mo-Se Sorbster Storage and Transfer.dwg
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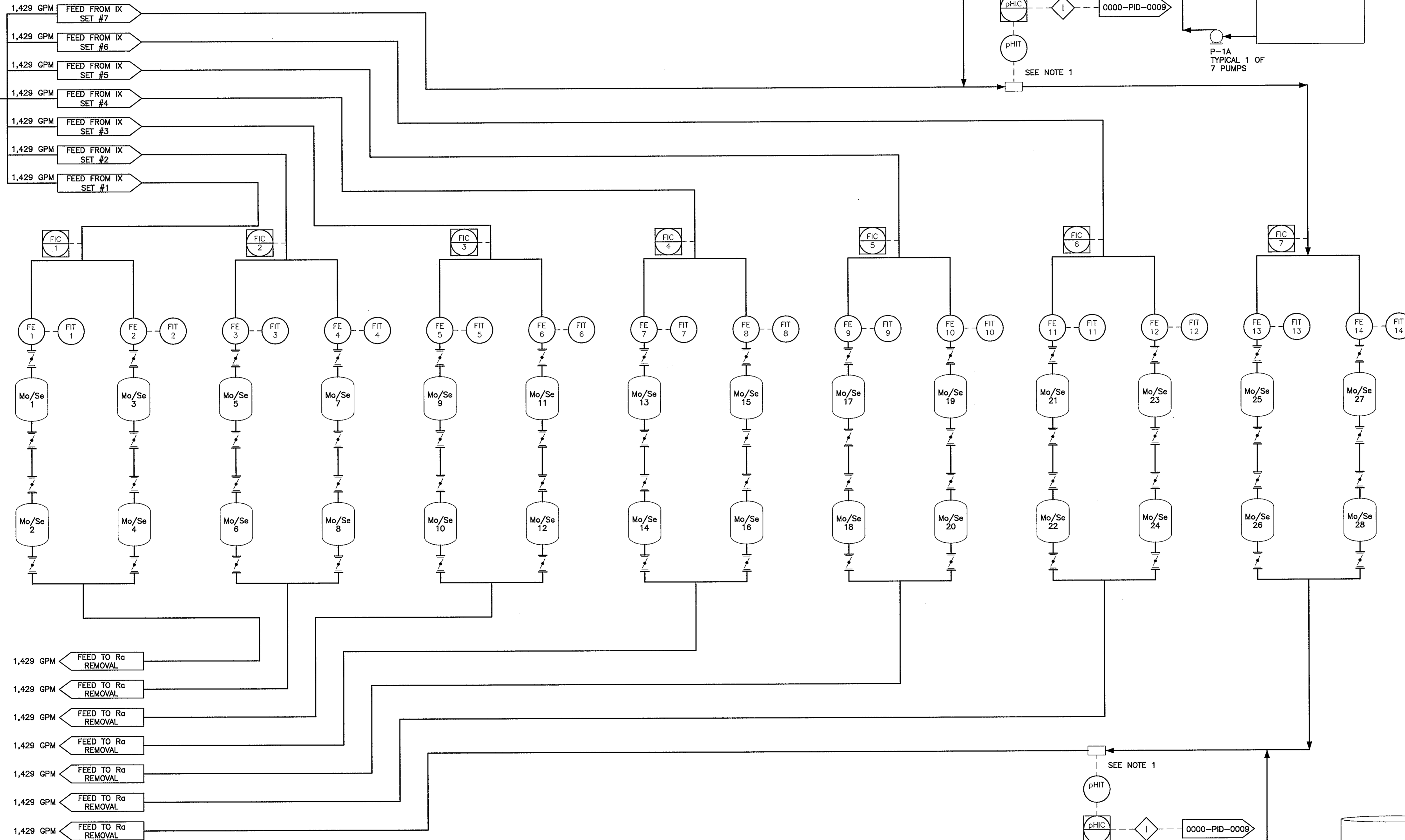
DATE	NO.	DESCRIPTION

DRAWN BY: DWH
 CHECKED BY: WLB
 APPROVED BY: DSL
 SCALE: SHOWN
 MARCH 2015

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 URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
Mo-Se P&ID-Mo-Se Sorbster Storage and Transfer

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 1000 W. BEAS 78406
 TUBE PRKING F-38E
 PH: (867) 883-1884
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TOTAL FEED FROM Mo/Se WET WELL 10,000 GPM



NOTE:

1. THIS IS AN INLINE PH PROBE CONNECTED TO A PH TRANSMITTER THAT READS THIS DATA TO PH CONTROLLER.
2. THE OPERATOR WILL MANUALLY CHECK PH DAILY AND IF THERE IS A DISCREPANCY, A WORK ORDER WILL BE ISSUED TO REPLACE PH PROBE.

** ACID INTRODUCTION FOR FEED FROM IX SET #7 SHOWN. FEED FROM IX SETS #1-#6 NOT SHOWN FOR CLARITY.

** CAUSTIC INTRODUCTION FOR FEED FROM IX SET #7 SHOWN. FEED FROM IX SETS #1-#6 NOT SHOWN FOR CLARITY.



DATE	NO.	DESCRIPTION
3.13.15	1	ADD Mo/Se REMOVAL TO SYSTEM
		REVISION BLOCK ***

DRAWN BY: DWL
 CHECKED BY: MLE
 APPROVED BY: DSL
 SCALE: SHOWN
 MARCH 2015

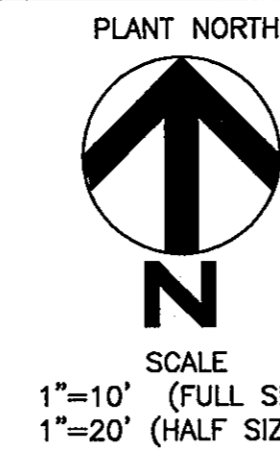
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MOLYBDENUM AND SELENIUM P&ID

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SHEET NO.	13	14
JOB NO.	150092	
TAG NO.	IX FID	
SHEET NO.	13 OF 14	

U:\Info_Graphics_Resources\150092_M_Taylor_Mo_Se_Removal\000\Drawings\Plant\Ch1\13_MOLYBDENUM AND SELENIUM P&ID.dwg
 Date Plotted: 3/13/15 2:30pm

EQUIPMENT SUMMARY			
TAG	DESCRIPTION	SIZE	CAPACITY
Mo/Se-(1-28)	PROPOSED Mo/Se COLUMNS	12.5'Ø x 12'H	10,000 GAL
T-7A	BACKWASH WATER STORAGE TANK	12'Ø x 20'H	16,000 GAL
T-7B	BACKWASH WATER STORAGE TANK	12'Ø x 20'H	16,000 GAL
SP-7	SUMP AND GRATE	6'Ø x 5' DEEP	1,000 GAL
P-7A & 7B	BACKWASH WATER PUMP	TBD	
F-7A & 7B	FILTER	TBD	

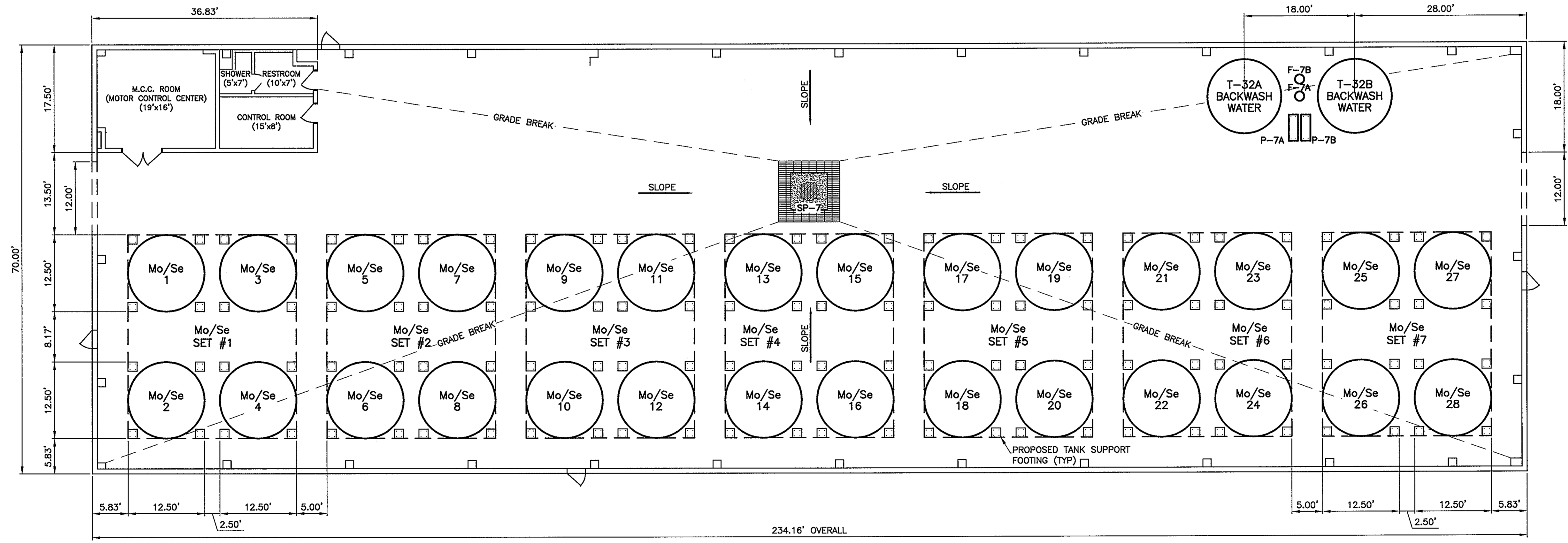


5/24/15

*** REVISION BLOCK ***

NO.	DATE	DESCRIPTION
1	3.13.15	ADD Mo/Se REMOVAL TO SYSTEM

DRAWN BY: DWL
CHECKED BY: WLB
APPROVED BY: DSL
SCALE: SHOWN
MARCH 2015



MT. TAYLOR URANIUM MINE/RIO GRANDE RESOURCES CORP., NEW MEXICO
URANIUM ION EXCHANGE & MOLYBDENUM AND SELENIUM ADSORPTION FACILITY
MOLYBDENUM AND SELENIUM BUILDING
LAYOUT AND CONTAINMENT PLAN

engineers | architects | contractors

801 NAVIGATION, SUITE 300
DALLAS, TEXAS 75488
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WWW.LNVINC.COM

8 MOLYBDENUM AND SELENIUM BUILDING LAYOUT AND CONTAINMENT PLAN
SCALE: 1"=10' (HALF SIZE SHEETS)
SCALE: 1"=5' (FULL SIZE SHEETS)

C:\s\stamps\stamps\150092.mt Taylor Moly Se Removal\000\Drawings\Plan\CA1 - MOLYBDENUM AND SELENIUM BUILDING LAYOUT AND CONTAINMENT PLAN.dwg
 Wednesday, May 20, 2015, 2:02 PM