



5.8 Radiographic Testing Report



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	ACUREN	CLIENT	ADDRESS	PROJECT	Work Location		1	2	3	4	5				6	10			13	14	15	16	17	18	79	Signature	JIGINA I UKES	CLIENT REPRESENTATIVE	TECHNICIAN (SIGN)	PRINT NAME:	Please note: Film that is not accepted by the client when the report is issued will be disposed of her American attacks.	notified and acknowledged in writing.	

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the client when the report is such will be CGSB LEVEL	PCS	
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	Pink - Technician Copy	opy

RADIOGRAPHIC TESTING REPORT

ISO 9001:2000

MR. 170115	PAGE CIS	[]	DEFECT LOCATION & REMARKS ACC RE					には、	A 396493	Pink - Technician Copy
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[ISO 9001:2000]





5.9 Certification of Welding Inspectors



OSMOND, BRAD RT2

VISION EXAMINATION FORM

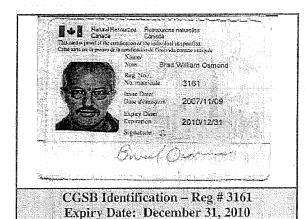
Q-016

In accordance with SNT-TC-1A 2001 edition the following eye examination report is evidence that technician's vision acuity has been checked. The evidence of satisfactory vision has been carried out by either the certified SNT level III or a representative trained by the Level III to administer the examination.

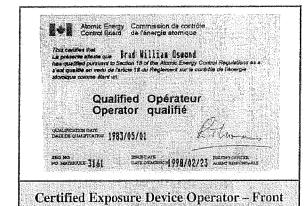
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OSMOND, BRAD RT2







Osmond, Brad

TDG Training: 11/2/2007 TDG Expires; 11/2/2010

The holder of this certificate is TDG trained in all aspects of handling and transporting Class 7 materials.

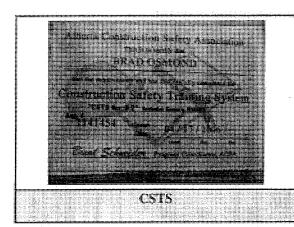
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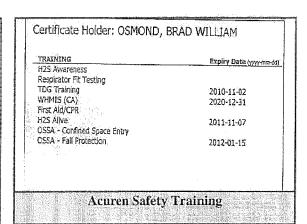
Employee: Burd Signature: Brook O5 Mis NO Signature: ACUREN GROUP INC.

7450-18th Street, Edmonton, AB TSP 1NS, Phone: 780-440-2131, Fax: 780-440-1157

Transportation of Dangerous Goods (TDG)

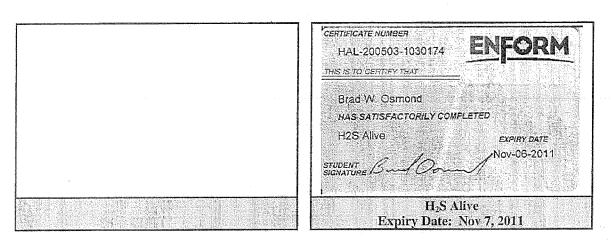
Expiry Date: November 2, 2010

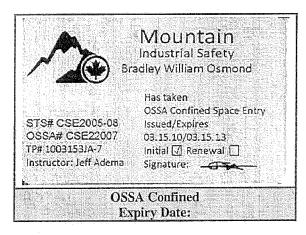


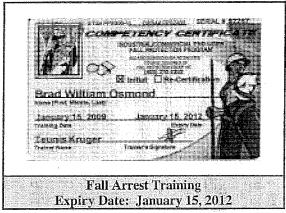


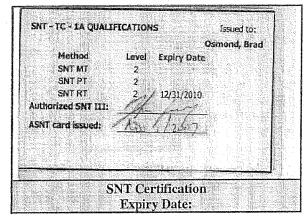


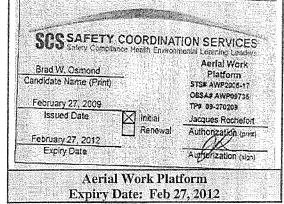
OSMOND, BRAD RT2











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5.10 Welder WPS Qualification Statement and Welder Numbers





Welder WPS Qualification Statement - Mary River Project 2011

The Gem Steel employees listed below have been qualified and are current to Gem Steel WPS Gem-85-200, Gem-85-300, Gem-85-400 and Gem-85-500 as per Gem Steel Quality Control Manual Section 11.

Steve Davies - Welder Symbol # 3

Carlos Espinosa – Welder Symbol # 2

Allan Garside - Welder Symbol # 13

Chris Gaudet - Welder Symbol # 12

Keith Hopkins - Welder # 5

Mark Kinzel - Welder Symbol # 4

Bruce McCarthy - Welder Symbol # 9

Brian Nielsen - Welder Symbol # 7

Leo Paradis - Welder Symbol # 6

Shaun Smathers - Welder Symbol # 11

Wes White - Welder Symbol # 10

Signed on behalf of Gem Steel

Steve Davies

Date: Oct 5/11



WELDER NUMBERS

verts

2-176

#11- 96

13 - 48' Steve #3

12-16

Carlos #2 # 4-40'

Keith #5 # 2 × 3 Horizontal, 31 264 = 789 5 Shots total

Mark K #4

all Bottom 5

+ V5B Leo P #6

+ 1 more # 2 welder.

Brian N #7

Zar Kan

Door Plate

Bruce #9

Wes #10

2 verts 1 Horizontal

Shaun #11

Chris #12

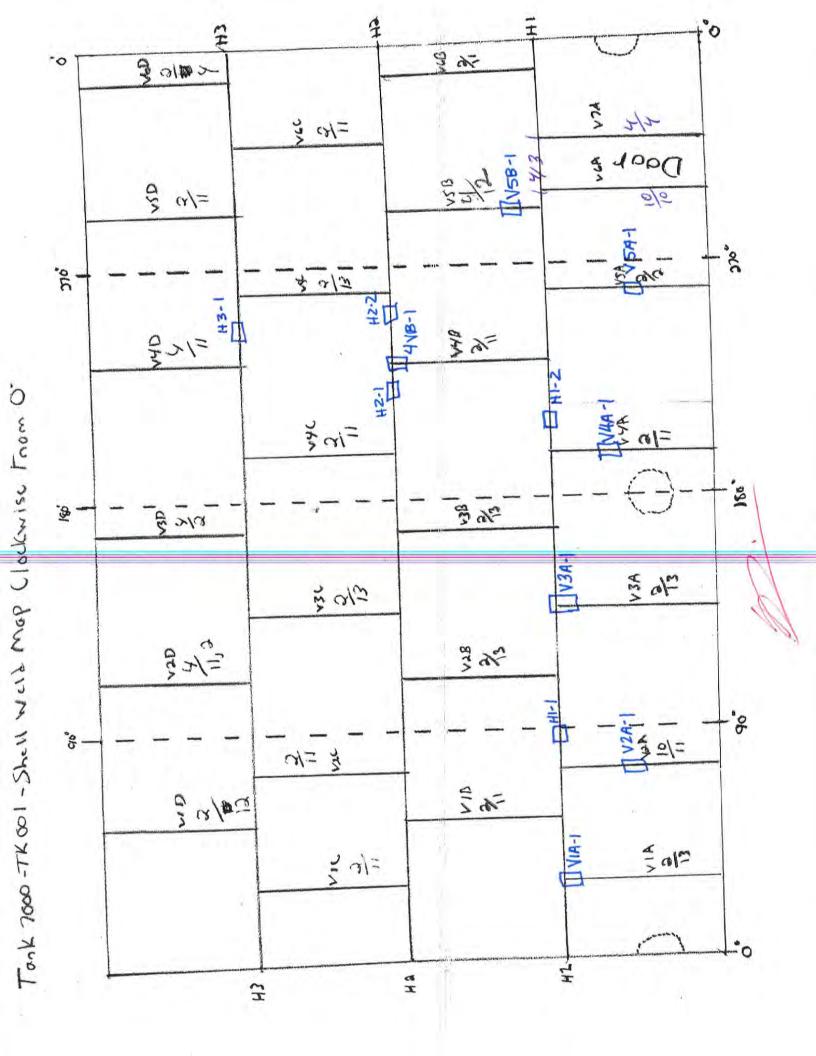
Al Garside #13



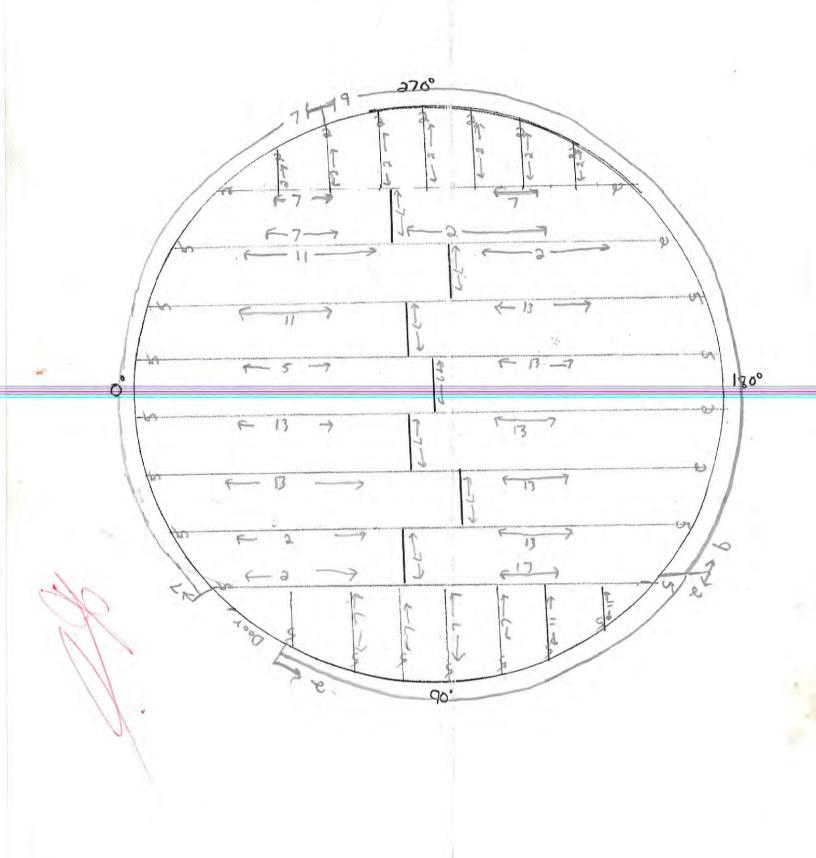


5.11 Tank Shell and Floor Weld Map





Floor Map 5M Lt Tonk







Appendix A



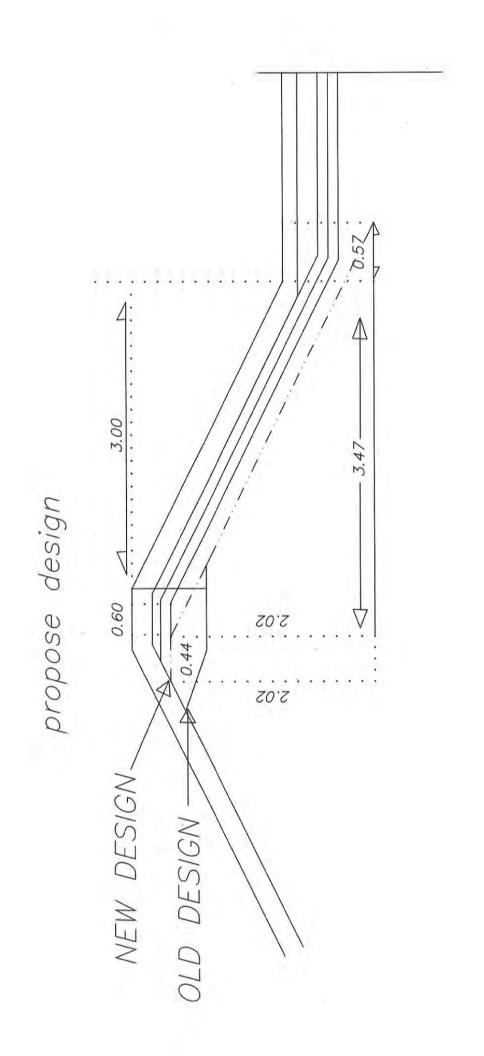


A.1 RFI's and Correspondance



Request For Information / Clarification

			Request F	or Change		
DRIGINATOR / Company:			Project Stage:	Home Office Site	Supplier Other	
Submitted by:	Kyle Ku	ntz.		Submitted to::	Hatch	
Company:	Nuna Conti			Tie point #:		
Phone No.:	780-434-			Related Doc's:		
Fax No.:				Other inform'n;	Table 1	
Cell Phone:	780-238-	6609		Date Issued:	19-Aug-11	
E-mail:	kylek@nunalog	gistics.com		Date Req:	20-Aug-11	
construction requires a Key " "Type-2" material to be place up construction as the screen slope, then flat, then back to D) Construction under tank p	ed above "Type- er will arrive on a 2:1 slope.	4" material, "Ty sea lift.	pe-2" mater	al is to be screene C	d as per spec, wh) "Type-4" subba) Dyke requires ich would hold ise requires 2:1
extremely well as demonstrated sketch for proposed slopes a directly ontop of Geotextile during construction. Attachments:	s the Key Trench This will gain m	will no be rea	uired. ove Insulation Originato			e Insulation ction of material
Attachments.	3 110					
RESPONSE:	CORRECTIVE	ACTION APPRO	VED		AS FOLLOWS	
material (Type-2 Substitute	by the contractor ackfilling. ution with Bank is adequacy for under configuration ation location sh	or. Documentation Material out of use within the dyn with Granular all remain as per could damage	Km2 Borrovke constructor Type-4 sloper current de	We Pit is approved pation. Sing as per attached sign. Relocating in	ending documents d sketch is appro	ntation from
Name (print)	KA1	Signature			Title	
Estimation required from Cor	tractor:	Yes		No No		
Change Order to Contract Re	A CANADA A	Yes		No		
	quitou			Date Issued:		
Site Instruction #:				Date Issued:	es. 01.5.p/1.	
Nuna Project Representativ	e: Name:	Kyle Kuntz	Signature		Date: Aug	just 19, 2011





Request For Information / Clarification

Request For Change

Submitted by: Kyle Kuntz Company: Nuna Contracting Phone No.: 780-434-9114 Related Doc's: Fax No.: Other inform'n; Cell Phone: 780-238-6609 Date Issued: 24-Aug-11 Description of Issue: (If required, a sketch should be attached for further clarification) A) Replace the specified Extruded Polystyrene for the remaining 15% of the tank base. The remaining amout insulation is located on the sea lift which is not unloading due to weather conditions. This is holding up constituted Product - FOAMULAR 600 2" X24" X96" B.C. Product - FOAMULAR 400 2" X24" X96" B.C. Attachments: Yes No Originator:	14						
Submitted by: Kyle Kuntz Submitted to:: Hatch Company: Nuna Contracting Tie point #: Phone No.: 780-434-9114 Related Doc's: Fax No.: Other inform'n; Cell Phone: 780-238-6609 Date Issued: 24-Aug-11 E-mail: kylek@nunalogistics.com Date Req: 24-Aug-11 Description of Issue: (If required, a sketch should be attached for further clarification) A) Replace the specified Extruded Polystyrene for the remaining 15% of the tank base. The remaining amou insulation is located on the sea lift which is not unloading due to weather conditions. This is holding up const Proposed Corrective Action: A) There is Insulation on site that we would like to use. Specifications call for Compressive Strength - 60 psi, the proposed insulation is 40 psi. Ordered Product - FOAMULAR 600 2" X24" X96" B.C. Product - FOAMULAR 400 2" X24" X96" B.C. Attachments: Yes No Originator:				Project	Home Office	Supplier	
Submitted by: Kyle Kuntz Company: Nuna Contracting Phone No.: 780-434-9114 Phone No.: 780-238-6609 Proposed Corrective Action: A) There is Insulation on site that we would like to use. Specifications call for Compressive Strength - 60 psi, the proposed insulation is 40 psi. Originator: Submitted to: Hatch Tie point #: Related Doc's: Other inform'n; Other inform'n; Date Issued: 24-Aug-11 Date Req: 24-Aug-11 Description of Issue: (If required, a sketch should be attached for further clarification) A) Replace the specified Extruded Polystyrene for the remaining 15% of the tank base. The remaining amout insulation is located on the sea lift which is not unloading due to weather conditions. This is holding up constitutions call for Compressive Strength - 60 psi, the proposed insulation is 40 psi. Ordered Product - FOAMULAR 600 2" X24" X96" B.C. Product - FOAMULAR 400 2" X24" X96" B.C. Attachments: Yes No Originator:	TOR / Company:			Stage:	Site	Other	
Company: Nuna Contracting Tie point #: Phone No.: 780-434-9114 Related Doc's: Fax No.: Other inform'n; Cell Phone: 780-238-6609 Date Issued: 24-Aug-11 E-mail: kylek@nunalogistics.com Date Req: 24-Aug-11 Description of Issue: (If required, a sketch should be attached for further clarification) A) Replace the specified Extruded Polystyrene for the remaining 15% of the tank base. The remaining amout insulation is located on the sea lift which is not unloading due to weather conditions. This is holding up constitutions call for Compressive Strength - 60 psi, the proposed insulation is 40 psi. Ordered Product - FOAMULAR 600 2" X24" X96" B.C. Product - FOAMULAR 400 2" X24" X96" B.C. Attachments: Yes No Originator:		K	(vlo Kuntz		Submitted to::	Hatch	
Phone No.: 780-434-9114 Related Doc's: Fax No.: Other inform'n; Cell Phone: 780-238-6609 Date Issued: 24-Aug-11 E-mail: kylek@nunalogistics.com Date Req: 24-Aug-11 Description of Issue: (If required, a sketch should be attached for further clarification) A) Replace the specified Extruded Polystyrene for the remaining 15% of the tank base. The remaining amout insulation is located on the sea lift which is not unloading due to weather conditions. This is holding up constitution is located on the sea lift which is not unloading due to weather conditions. This is holding up constitution is located on the sea lift which is not unloading due to weather conditions. The remaining amout insulation is located on the sea lift which is not unloading due to weather conditions. This is holding up constitution in sulation is 40 psi. Ordered Product - FOAMULAR 600 2" X24" X96" B.C. Product - FOAMULAR 400 2" X24" X96" B.C. Attachments: Yes No Originator:							
Fax No.: Cell Phone: 780-238-6609 Date Issued: 24-Aug-11 E-mail: kylek@nunalogistics.com Date Req: 24-Aug-11 Description of Issue: (If required, a sketch should be attached for further clarification) A) Replace the specified Extruded Polystyrene for the remaining 15% of the tank base. The remaining amou insulation is located on the sea lift which is not unloading due to weather conditions. This is holding up constitution is located on the sea lift which is not unloading due to weather conditions. This is holding up constitutions call for Compressive Strength - 60 psi, the proposed insulation is 40 psi. Ordered Product - FOAMULAR 600 2" X24" X96" B.C. Product - FOAMULAR 400 2" X24" X96" B.C. Attachments: Yes No Originator:							
Cell Phone: T80-238-6609 Date Issued: 24-Aug-11 Bescription of Issue: (If required, a sketch should be attached for further clarification) A) Replace the specified Extruded Polystyrene for the remaining 15% of the tank base. The remaining amout insulation is located on the sea lift which is not unloading due to weather conditions. This is holding up constitutions call for Compressive Strength - 60 psi, the proposed insulation is 40 psi. Ordered Product - FOAMULAR 600 2" X24" X96" B.C. Product - FOAMULAR 400 2" X24" X96" B.C. Attachments: Yes No Originator:				_			
E-mail: kylek@nunalogistics.com Date Req: 24-Aug-11 Description of Issue: (If required, a sketch should be attached for further clarification) A) Replace the specified Extruded Polystyrene for the remaining 15% of the tank base. The remaining amout insulation is located on the sea lift which is not unloading due to weather conditions. This is holding up constitution is located on the sea lift which is not unloading due to weather conditions. This is holding up constitution on site that we would like to use. Specifications call for Compressive Strength - 60 psi, the proposed insulation is 40 psi. Ordered Product - FOAMULAR 600 2" X24" X96" B.C. Product - FOAMULAR 400 2" X24" X96" B.C.		78	0-238-6609			24-Aug-11	
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	Product - FOAM	ULAR 600 2	2" X24" X96" B.C.		lation is 40 psi.		Proposed
RESPONSE: CORRECTIVE ACTION APPROVED CORRECT AS FOLLOWS							
	ents:	Yes	No No	Originator	*		
Name (print) Signature Title Estimation required from Contractor: Yes No	000		O. U. Bernel			S FOLLOWS	
Change Order to Contract Required Yes No Site Instruction #: Date Issued:	NSE:	CORRE	CTIVE ACTION APP		CORRECT A		
	Name (print) on required from Co	CORREC	Signature Yes		No No		



Request For Information / Clarification

		Reques	t For Change		
DICINATOR / Seminary		Project Stage:		Supplier Other	
RIGINATOR / Company:	W.L.W.		Submitted to::	Hatah	
Submitted by:	Kyle Kuntz		Tie point #:		
Company:	Nuna Contractii 780-434-9114		Related Doc's:		
Phone No.: Fax No.:	700-434-9114		Other inform'n;		
Cell Phone:	780-238-6609		Date Issued:		
E-mail:	kylek@nunalogistics			27-Aug-11	
Proposed Corrective Action A) Produce a modified "Tythis is the best solution to rethe drawings for the top lay	pe 3" material which we	ecessary. We would	then combine the "T	ype 2" and "Typ	e 3" called out o
Attachments: Y	es No	Origina	utor:		
RESPONSE:	CORRECTIVE ACT	ION APPROVED		AS FOLLOWS	
Modified' Type 3 Material and thicknesses indicated. not exceed 200mm. Controverification of grain size displayed.	Required compaction actor shall provide typ	density shall be 100	% by standard procto	or. Maximum iii	t thickness snaii
Name (print) Estimation required from Co Change Order to Contract Re	ntractor:	signature Yes Yes	No No	Title	
Estimation required from Co	ntractor:	Yes		Title	



Request For Information / Clarification

			Request	or Change		
			Project	Home Office	Supplier	
RIGINATOR / Company:			Stage:	Site	Other	
Submitted by:		Kyle Kuntz		Submitted to::	Hatch	
Company:		na Contracting		Tie point #:		
Phone No.:		80-434-9114		Related Doc's:		
Fax No.:				Other inform'n;		
Cell Phone:	7	80-238-6609		Date Issued:	28-Aug-11	
E-mail:		nunalogistics co	im	Date Req:	30-Aug-11	
roposed Corrective A	odified "Typ	e 3" as mentione	ed in RFI-003, the	split produces a 75	mm plus. This m	aterial will
) While creating the movide much greater sta	bility holdin	g up to the elem	ients. It will also pr	ovide all astatically	promise man	
rovide much greater sta	Yes	g up to the elem	ents. It will also pr		poulong	
Attachments: RESPONSE:	Yes CORR	No RECTIVE ACTION	Originato N APPROVED 3 (50mm Minus) di	CORRECT	AS FOLLOWS dyke/berm walls	shall be a loos
Attachments: RESPONSE: The material to be used graded 75mm minus may Minus) outlined in RFI-to placement. Mechanic required.	Yes CORR in place of 2 terial produc	No RECTIVE ACTION 100mm of Type 200 of from the screen starting shall have	Originate N APPROVED 3 (50mm Minus) dr eens resulting from	CORRECT resser stone on the the production of with any/all stones	AS FOLLOWS dyke/berm walls Modified' Type is larger than 75mm	shall be a loos 3 (50-65mm n removed prio
Attachments: RESPONSE: The material to be used graded 75mm minus may minus) outlined in RFI-oplacement. Mechanical may be a sequired.	Yes CORR in place of 2 terial produc	No RECTIVE ACTION 100mm of Type 2 ced from the screen naterial shall have on following place.	Originate N APPROVED 3 (50mm Minus) dr eens resulting from	CORRECT resser stone on the the production of with any/all stones	AS FOLLOWS dyke/berm walls Modified' Type is larger than 75mm	shall be a loos 3 (50-65mm n removed pric
attachments: RESPONSE: The material to be used raded 75mm minus ma Minus) outlined in RFI-to placement. Mechanic equired. Name (print)	Yes CORR in place of 2 terial production of 2 compaction compaction of 2 compaction comp	No RECTIVE ACTION 200mm of Type 2 ced from the screnaterial shall have on following pla	Originate N APPROVED 3 (50mm Minus) do eens resulting from re little to no fines vacement is required	corrections of the production of with any/all stones only to ensure stab	AS FOLLOWS dyke/berm walls Modified' Type i larger than 75mn bility with no den	shall be a loos 3 (50-65mm n removed pric
attachments: RESPONSE: The material to be used raded 75mm minus may minus) outlined in RFI-to placement. Mechanic equired. Name (print) Estimation required from	Yes CORR in place of 2 terial production to the compaction of the	No RECTIVE ACTION 200mm of Type 2 ced from the screen atterial shall have on following pla	Originate N APPROVED 3 (50mm Minus) dr eens resulting from the little to no fines vacement is required mature	cor: CORRECT resser stone on the the production of with any/all stones only to ensure state	AS FOLLOWS dyke/berm walls Modified' Type i larger than 75mn bility with no den	shall be a loos 3 (50-65mm n removed pric
Attachments: RESPONSE: The material to be used raded 75mm minus may minus) outlined in RFI-to placement. Mechanic equired. Name (print) Estimation required from	Yes CORR in place of 2 terial production to the compaction of the	No RECTIVE ACTION 200mm of Type 2 ced from the screen atterial shall have on following pla	Originate N APPROVED 3 (50mm Minus) do eens resulting from re little to no fines vacement is required	cor: CORRECT resser stone on the the production of with any/all stones only to ensure stab	AS FOLLOWS dyke/berm walls Modified' Type i larger than 75mn bility with no den	shall be a loos 3 (50-65mm n removed prio
Attachments: RESPONSE: The material to be used graded 75mm minus may minus) outlined in RFI-oplacement. Mechanic equired.	Yes CORR in place of 2 terial production to the compaction of the	No RECTIVE ACTION 200mm of Type 2 ced from the screen atterial shall have on following pla	Originate N APPROVED 3 (50mm Minus) dr eens resulting from the little to no fines vacement is required mature	cor: CORRECT resser stone on the the production of with any/all stones only to ensure state	AS FOLLOWS dyke/berm walls Modified' Type i larger than 75mn bility with no den	shall be a loos 3 (50-65mm n removed prio



Request For Information / Clarification

Request For Change

1

		Project	Home Office	Supplier	
DIOWATOR / Comment		Stage:	Site	Other	
RIGINATOR / Company:	T O		Submitted to::	Hatch	
Submitted by:	Terry Oszu		Tie point #:		
Company:	Adco Ikpiar 780-465-32		Related Doc's:		
Phone No.:	780-403-32	203	Other inform'n;		
Fax No.:	780-984-26	10	Date Issued:		
Cell Phone:	terry.oszust@adcor			30-Aug-11	
E-mail:	Water and the same of the same	nould be attached for furthe			
shown on the drawings we the throught was that the a	inchors remain secur	y at these three anchor poe.	oints. the rest of th	e pipe allows for	movement and
	are at PS-001, PS-0	424 42 43 4).	
Cilimitated. Talesto, person					
	Yes No	Originato	or:		
Attachments:				AS FOLLOWS	
Attachments: RESPONSE: The wear bars shall not be	CORRECTIVE A	CTION APPROVED	CORRECT	AS FOLLOWS	the support sie
Attachments: RESPONSE: The wear bars shall not be with a continuous weld. Patrick Cashia	CORRECTIVE A	CTION APPROVED e anchor locations. The p	CORRECT ipe shoe shall be w		
RESPONSE: The wear bars shall not be with a continuous weld. Patrick Cashin Name (print) Estimation required from C	CORRECTIVE At the pipe ontractor:	CTION APPROVED e anchor locations. The p Signature Yes	CORRECT ipe shoe shall be w	velded directly to	
Attachments: RESPONSE: The wear bars shall not be with a continuous weld. Patrick Cashin Name (print)	CORRECTIVE At the pipe ontractor:	CTION APPROVED e anchor locations. The p	Project No No	velded directly to	
RESPONSE: The wear bars shall not be with a continuous weld. Patrick Cashin Name (print) Estimation required from C	CORRECTIVE At the pipe ontractor:	CTION APPROVED e anchor locations. The p Signature Yes	CORRECT ipe shoe shall be w	velded directly to	



Request For Information / Clarification

Request For Change

1

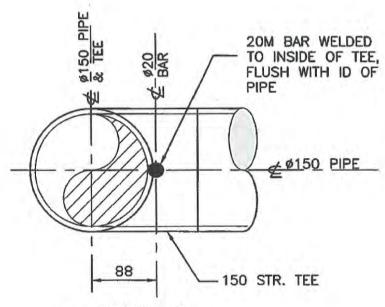
		Project	Home Office	Supplier
ORIGINATOR / Company:		Stage:	Site	Other
The same of the sa	Terry Oszust		Submitted to::	Hatch
Submitted by:	Adco Ikpiaryuk		Tie point #:	
Company: Phone No.:	780-465-3265		Related Doc's:	
Fax No.:	780-405-5205		Other inform'n;	
Cell Phone:	780-984-2640		Date Issued:	
E-mail:	terry.oszust@adcopower.com			30-Aug-11
shown on the drawings welcome the throught was that the are proposed Corrective Action	ded flat and securely at these thrunchors remain secure.	ee anchor po	ints, the rest of th	s the shoe welded to the pipe and e pipe allows for movement and
eliminated. Anchor points a				
	es No	Originato	·	
Attachments: Y			-	'AS FOLLOWS
Attachments: Y RESPONSE: See RFI # AP-RFI-005 Patrick Cashia Name (print) Estimation required from Co	CORRECTIVE ACTION APPRO		-	Engineer
Attachments: Y RESPONSE: See RFI # AP-RFI-005 Patrick Cashia Name (print)	CORRECTIVE ACTION APPRO		Project	



Request For Information / Clarification

Request For Change

			Project	Home Office	Supplier	
ORIGINATOR / Compar	ny:		Stage:	Site	Other	
Submitted b		Terry Oszust		Submitted to:	Hatch	
Compan		Adco Ikpiaryuk		Tie point #		
Phone No		780-465-3265		Related Doc's:		
Fax No				Other inform'n		
Cell Phon		780-984-2640		Date Issued		
E-ma		zust@adcopower.	com		: 30-Aug-11	
tee for pigging". Pleas	e provide deta	or man, ir dily	and the second			
Proposed Corrective	Action:					
Attachments:	Yes	No No	Originator	r:		
Attachments: RESPONSE: Detail for tee branch l	CORI	RECTIVE ACTION	APPROVED	CORRECT	AS FOLLOWS	tank
RESPONSE:	CORI	RECTIVE ACTION	APPROVED	CORRECT		tank
RESPONSE: Detail for tee branch l	CORI pars is attached ons)	RECTIVE ACTION	APPROVED branch bars at on t	CORRECT	tees for the future	
Patrick Cosh: Name (print)	CORI	RECTIVE ACTION d. Add additional	APPROVED branch bars at on t	CORRECT	tees for the future	
Patrick Cash:	CORI	RECTIVE ACTION d. Add additional	APPROVED branch bars at on to	CORRECT the branch of the	tees for the future	
Patrick Cash: Name (print) Estimation required from	CORI	RECTIVE ACTION d. Add additional Signa	APPROVED branch bars at on to	CORRECT the branch of the	tees for the future	



DETAIL-6

TYPICAL Ø150 PIGGING TEE REFER H337697-4020-60-013-0001 SCALE: 1:5

0 50 100 150 200 250

SCALE: 1:5 IN MILLIMETRES

18/30, 2011 DWG No. 4020-60-035-0001 DETAIL-6 ADDED



Request For Information / Clarification

		Request F	or Change		
		Project Stage:	Home Office	Supplier	
ORIGINATOR / Company	:	Stage.	Site	Other	
Submitted by:	Terry Oszust		Submitted to::	Hatch	
Company			Tie point #:		
Phone No.			Related Doc's:		
Fax No.			Other inform'n;		
Cell Phone			Date Issued:		
E-mail Description of Issue:	terry.oszust@adcopower.com (If required, a sketch should be atta			30-Aug-11	
meters one way and bui	ort two meters either way and have ld an H type support out of extra 8 ale. This would allow for a 4m an	3" C channel as	nd install this direc	ctly on a gravel p	pad 2 meyers on
Attachments:	Yes No	Originator		E 100 mg	
RESPONSE:	CORRECTIVE ACTION APPR	OVED	CORRECT	AS FOLLOWS	
Patrick Cashin Name (print) Estimation required from Change Order to Contract		and 0 7111 3	Project No No	t Engine	eel
Site Instruction #:			Date Issued:		an and Ariva
Adco Project Represent	attve: Name: Terry Oszus	st Signature:		Date: Aug	ust 29, 2011



Request For Information / Clarification

5

Request For Change

		1757,755,75			
		Project	Home Office	Supplier	
ORIGINATOR / Company:		Stage:	Site	Other	
Submitted by:	Terry Oszust		Submitted to:: I	Hatch	
Company:	Adco Ikpiaryuk		Tie point #:	Idicii	
Phone No.:	780-465-3265		Related Doc's:		
Fax No.:	780-466-8086	_	Other inform'n;		
Cell Phone:	780-984-2640		Date Issued: 2	9-Aug-11	
E-mail:	terry.oszust@adcopower.	com	Date Req: 3		
install this outside the mod Proposed Corrective Act					
Attachments:	ves No	Originator			
Attachinents.	res No	Originator			
RESPONSE:	CORRECTIVE ACTION	APPROVED	CORRECT A	S FOLLOWS	
				Tille	
Name (print)	Signa	ture	10 10 10 10	Title	
Estimation required from Co	ontractor: Ye	es	No		
Change Order to Contract R	equired Ye	es	No		
Site Instruction #:	7 1 200		Date Issued:		
Adco Project Representat	ive: Name: Ta-:	Dezuet Cianatura	and roomen.	Date: August 2	29 2011
PERSONAL PROPERTY AND	Name: Terry	Oszust Signature:		Date. August	20, 2011



Request For Information / Clarification

Request For Change

2

		Project	Home Office	Supplier [
ORIGINATOR / Company:	ORIGINATOR / Company:		Site	Other	
Submitted by:	Tyler Bruce	Dec so	Submitted to:: Hat	ch	
Company:	Nuna Logistics		Tie point #:		
Phone No.:	780-434-9114		Related Doc's: DW	/G# H337697-4	1020-10-035-0001
Fax No.:			Other inform'n;		
Cell Phone:	780-893-0832		Date Issued: 3-S		
E-mail:	tylerb@nunalogistics.com		Date Req: 4-S	ep-11	
Proposed Corrective Action Substitute Type-2 with an ad					
Attachments: Yo	es No	Originator:			H. L.
RESPONSE:	CORRECTIVE ACTION APPRO	OVED	CORRECT AS FO	OLLOWS	
Name (print)	Signature			Title	
Estimation required from Conti			No		
Change Order to Contract Requ	ired Yes		No		
Site Instruction #:			Date Issued:		
Nuna Project Representative	Name: Tyler Bruce	Signature	The Paris	Date: Septemb	per.3, 2011

Coakley, Marlon

From: Sent: Butts, Floyd [Floyd.Butts@hatchmott.com] Friday, September 09, 2011 5:42 AM

To:

Tyler Bruce

Cc:

Tucker, Shawn; Coakley, Marlon

Subject:

FW: E & H - SO#; 46593076 / PO#: 3266-00018 - Clarification Required [virus checked]

Tyler

I see you were CC'd on this, let me know if there are any other issues. There is some field set up requirements for this gauge please ensure you electrical personnel are aware.

Regards

Floyd

Floyd Butts, P. Eng

From: MacLean, Michael

Sent: Friday, September 09, 2011 8:32 AM

To: Butts, Floyd

Cc: MacLean, Joseph; Tyler Bruce

Subject: RE: E & H - SO#; 46593076 / PO#: 3266-00018 - Clarification Required [virus checked]

Option C1 is not required on the Level display unit.

Michael MacLean P.Eng.| Electrical Project Engineer
Hatch Mott MacDonald | michael.maclean@hatchmott.com
325 Vulcan Ave., Sydney, Nova Scotia, B1P5X1
T 902.564.5583 x239 C 902.578,0691 F 902.564.9158

From: Butts, Floyd

Sent: Friday, September 09, 2011 7:28 AM

To: MacLean, Michael

Cc: MacLean, Joseph; Tyler Bruce

Subject: FW: E & H - SO#; 46593076 / PO#: 3266-00018 - Clarification Required [virus checked]

Importance: High

Mike

Can you resolve this morning.

Thanks

Floyd Butts, P. Eng

From: Tyler Bruce [mailto:tylerb@nunalogistics.com] Sent: Thursday, September 08, 2011 9:09 PM

To: Butts, Floyd

Subject: FW: E & H - SO#; 46593076 / PO#: 3266-00018 - Clarification Required [virus checked]

Importance: High

As per my previous email

From: Terry Oszust [mailto:Terry.Oszust@adcopower.com]

Sent: Tuesday, September 06, 2011 12:34 PM

To: Tyler Bruce

Cc: Kyle Kuntz; mcoakley@hatch.ca

Subject: FW: E & H - SO#; 46593076 / PO#: 3266-00018 - Clarification Required [virus checked]

Importance: High

Tyler,

I still have not ordered E and H gauge pending information from Client as per below.

Need soon if we are to install.

Thanks! Terry

Adco Group of Companies

Terry Oszust

Vice President - Operations

Phone: (780) 465-3265 Cell: (780 984-2640 Fax: (780) 466-8086

E-mail terry.oszust@adcopower.com

www.adcopower.com

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If you received this in error, please contact the sender and delete the material from any computer.

From: debbie.ziegert@ca.endress.com [mailto:debbie.ziegert@ca.endress.com]

Sent: September-06-11 10:14 AM

To: Terry Oszust

Cc: Mark.McDowell@ca.endress.com; Angelika.Guggenbuhler@ca.endress.com

Subject: Fw: E & H - SO#; 46593076 / PO#: 3266-00018 - Clarification Required [virus checked]

Importance: High

Good Morning Terry;

The above order is still on Technical Hold pending the clarification requirement below. Please advise as soon as possible to avoid shipping delays.

Thanks!

Best regards

Debbie Ziegert | Inside Sales | Sales

Endress + Hauser Canada | #318, 8925 - 51 Ave | T6E 5J3 Edmonton | AB | Canada

Phone: 780 486 3222 | Mobile: | Fax: 780 486 3166 debbie.ziegert@ca.endress.com | www.ca.endress.com

[—] Forwarded by Debbie Ziegert/EHCA on 09/06/2011 10:12 AM ----

Subject Fw: E & H - SO#; 46593076 / PO#: 3266-00018 - Clarification Required

Good Morning Terry;

The Factory has contacted me for clarification on the RIA46.

You ordered one piece of RIA46-E1C2B+B1C1D1E1Z1 and you choose the "C1" and that is for customised preconfiguration.

Please see below on the print the explanation of the order code you ordered, and advise what requirements your customer has for the preconfiguration.

RIA46		71073510 0004 FIELD METER WITH CONTROL UNIT RIA46
010		EN Approval:
a	1	E1 CSA AIS, NI/I/2/ABCDEFG/T4
020		EN Input: Output:
		C 1x Universal; 1x analog + 2 relay
030		EN Housing:
DJ.	1	2 Field, Alu
040		EN Thread:
CJ.		B 5x NPT 1/2"
510		EN >Mounting:
		B1 Mounting set wall+pipe
520		EN >>Additional Option:
		C1 Customised pre-configured
530		EN >>Additional Approval:
		D1 SIL
540		EN >>Accessory:
		E1 Configurations kit TXU 10
895		EN >>Marking:
		Z1 Tagging (TAG), metal

Best regards

Debbie Ziegert | Inside Sales | Sales | Endress + Hauser Canada | #318, 8925 - 51 Ave | T6E 5J3 Edmonton | AB | Canada | Phone: 780 486 3222 | Mobile: | Fax: 780 486 3166 | debbie.ziegert@ca.endress.com | www.ca.endress.com

⁻⁻⁻⁻ Forwarded by Debbie Ziegert/EHCA on 08/28/2011 11:10 AM ----

Debbie Ziegert/EHCA

08/23/2011 10:28 AM

To Terry.Oszust@adcopower.com cc Mark McDowell/EHCA@EHCA

Subject E & H - PO#: 3266-00018 - Order AcknowledgementLink

Hi Terry:

I've received the above PO and will process it immediately. A Factory Order Confirmation with an ETA will be forwarded as soon as it has been received. Thanks for the order and have a great day!

Best regards

Debbie Ziegert | Inside Sales | Sales
Endress + Hauser Canada | #318, 8925 - 51 Ave | T6E 5J3 Edmonton | AB | Canada
Phone: 780 486 3222 | Mobile: | Fax: 780 486 3166
debbie.ziegert@ca.endress.com | www.ca.endress.com

"Terry Oszust" <Terry.Oszust@adcopower.com>

To <debbie.ziegert@ca.endress.com>

CC

08/18/2011 12:09 PM

Subject E & H

Debbie, See attached PO for items on your quote 80665907 Revision as per the Purchase Order Model #'s. Please advise delivery. Thanks! Terry

Adco Group of Companies

Terry Oszust

Vice President - Operations

Phone: (780) 465-3265 Cell: (780 984-2640 Fax: (780) 466-8086

E-mail terry.oszust@adcopower.com

www.adcopower.com

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----Original Message----

From: adminsm@simmax.com [mailto:adminsm@simmax.com]

Sent: August-18-11 10:50 AM

To: Terry Oszust

Subject:

This E-mail was sent from "RNPO64A84" (Aficio MP 5001).

Scan Date: 08.18.2011 10:49:35 (-0600)

Queries to: adminsm@simmax.com

[attachment "20110818104935805.pdf" deleted by Debbie Ziegert/EHCA]

This email has been scanned by the MessageLabs Email Security System. For more information please visit http://www.messagelabs.com/email

Attention:

This e-mail and any files transmitted with it from Hatch Mott MacDonald are confidential and intended solely for use of the individual or entity to whom they are addressed. If you have received this e-mail in error please immediately notify the sender.





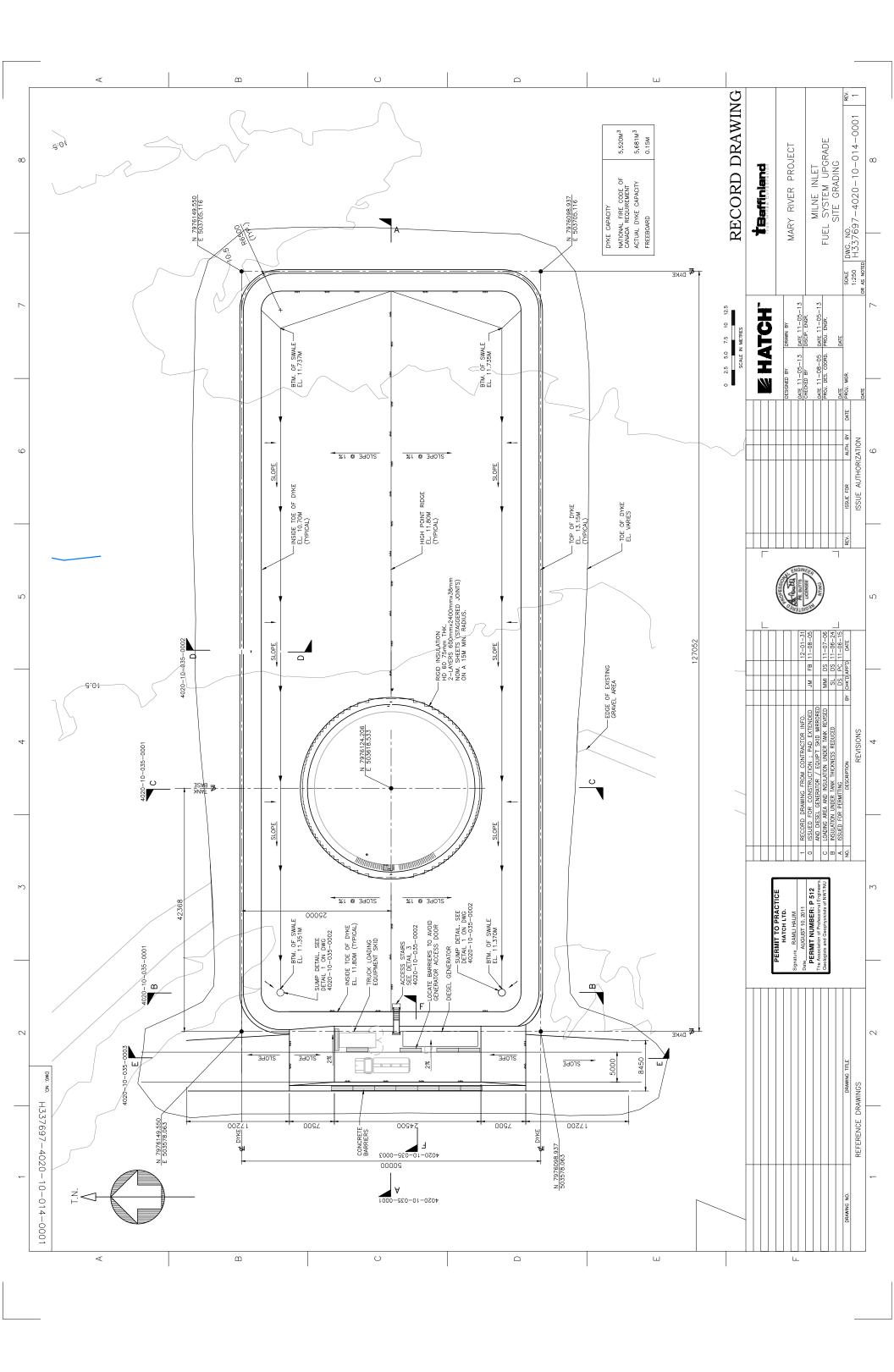
Baffinland Iron Mines Corporation - Mary River Project Milne Inlet Fuel Storage Facility As-Built Documentation – January 31, 2012

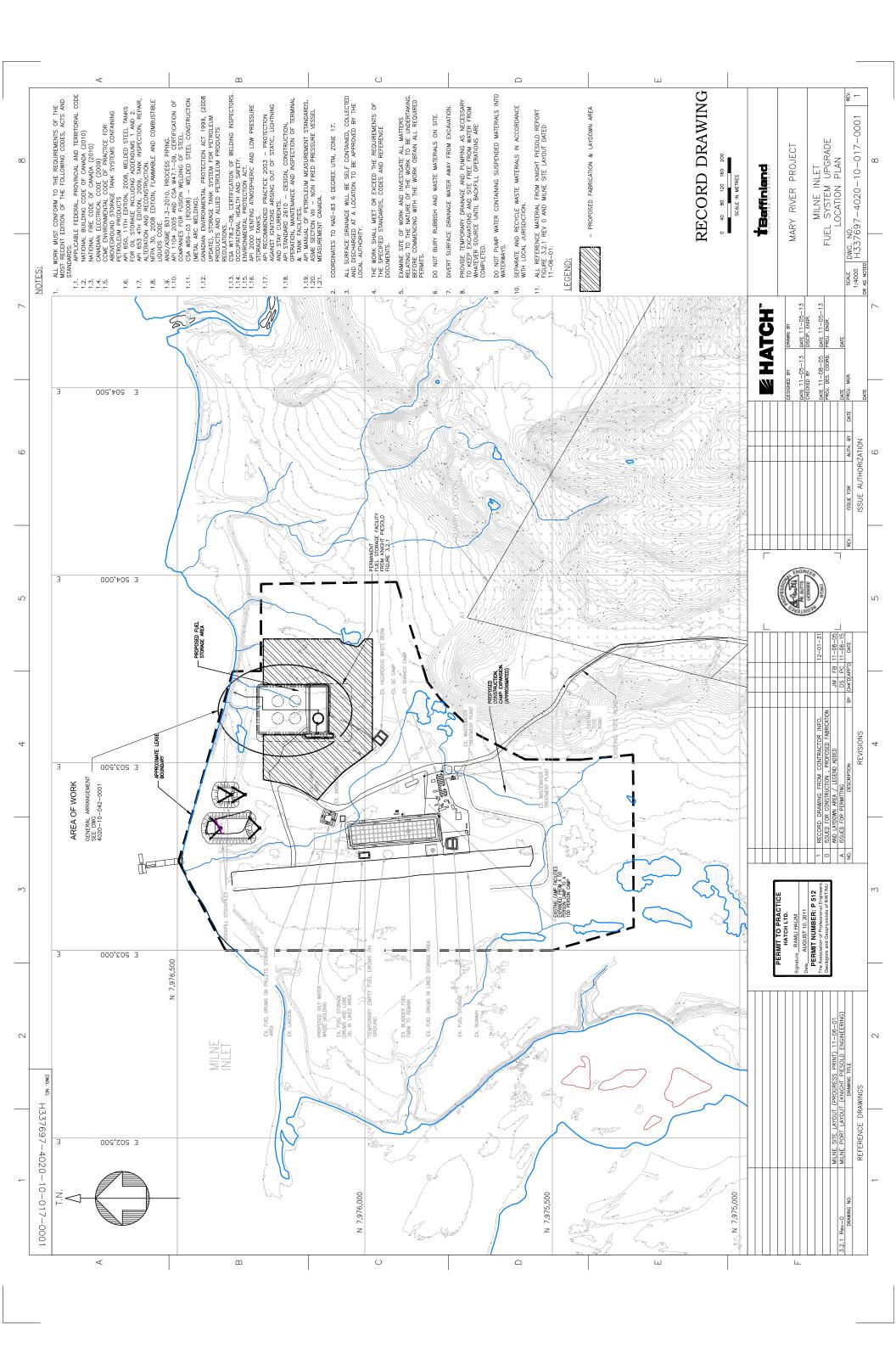
A.2 Hatch Record Drawings

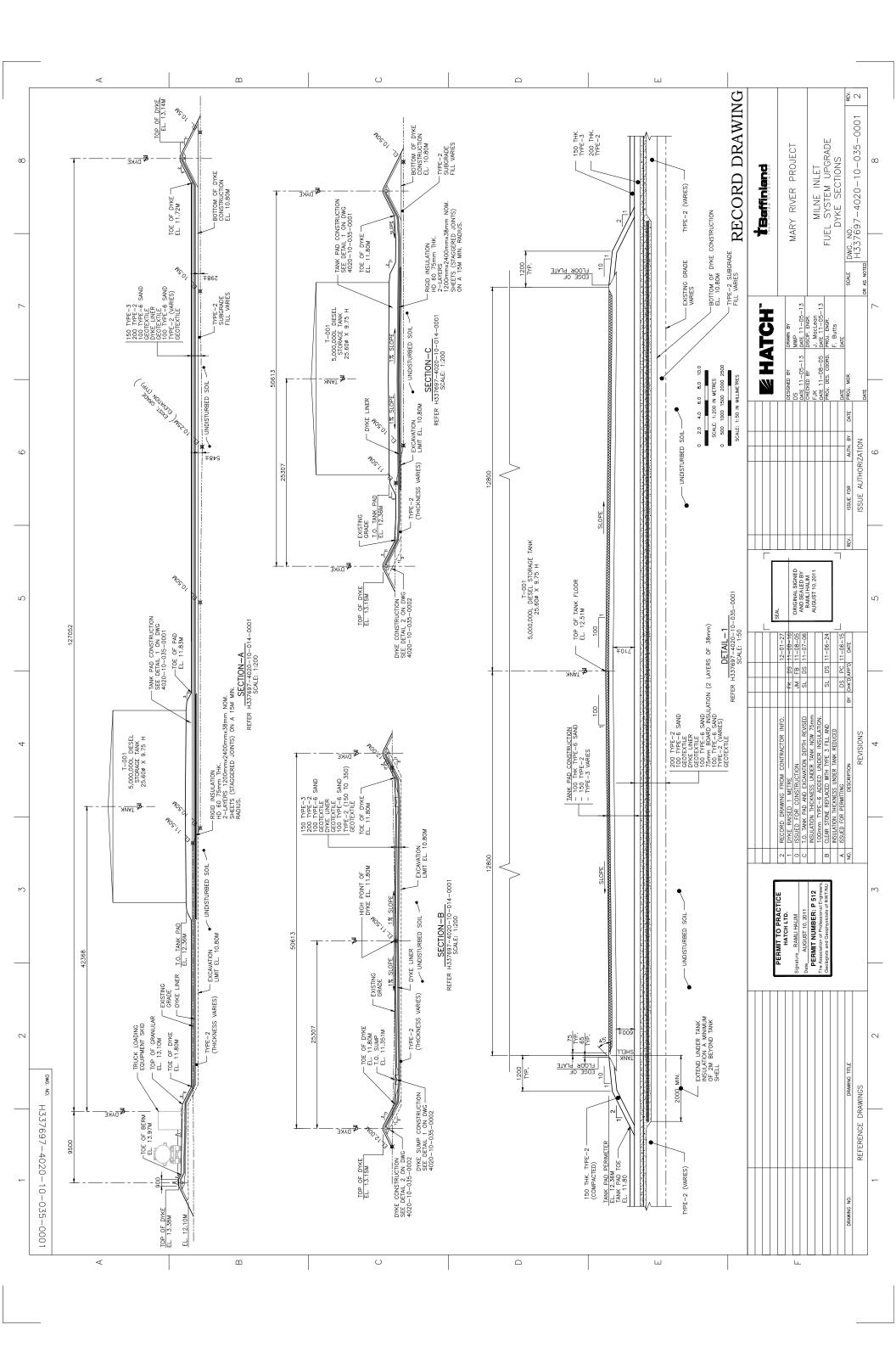
- 1. H337697-4020-10-014-0001 Milne Inlet Fuel System Upgrade Site Grading.
- 2. H337697-4020-10-017-0001 Milne Inlet Fuel System Upgrade Location Plan.
- 3. H337697-4020-10-035-0001 Milne Inlet Fuel System Upgrade Dyke Sections.
- 4. H337697-4020-10-035-0002 Milne Inlet Fuel System Upgrade Dyke Sections and Details.
- 5. H337697-4020-10-035-0003 Milne Inlet Fuel System Upgrade Sections Thru Truck Loading Area.
- 6. H337697-4020-10-042-0001 Milne Inlet Fuel System Upgrade General Arrangement.
- 7. H337697-4020-30-035-0001 Milne Inlet Fuel System Upgrade Pipe Support Details.
- 8. H337697-4020-30-035-0002 Milne Inlet Fuel System Upgrade Marine Offload Spill Containment, Plan and Sections.
- 9. H337697-4020-50-035-0001 Milne Inlet Fuel System Upgrade 5M Litre Diesel Storage Tank
- 10. H337697-4020-50-035-0002 Milne Inlet Fuel System Upgrade Typical Section, Details and Trim Identification.
- 11. H337697-4020-60-012-0001 Milne Inlet Fuel System Upgrade Ø150 Pipeline Profile.
- 12. H337697-4020-60-013-0001 Milne Inlet Fuel System Upgrade Flow Sheet.
- 13. H337697-4020-60-035-0001 Milne Inlet Fuel System Upgrade Miscellaneous Piping Details.
- 14. H337697-4020-60-042-0001 Milne Inlet Fuel System Upgrade Piping General Arrangement.
- 15. H337697-4020-70-035-0001 Milne Inlet Fuel System Upgrade Electrical Sections and Details
- 16. H337697-4020-70-042-0001 Milne Inlet Fuel System Upgrade Electrical General Arrangement.
- 17. H337697-4020-70-042-0002 Milne Inlet Fuel System Upgrade Electrical Grounding Plan.
- 18. H337697-4020-70-082-0001 Milne Inlet Fuel System Upgrade Power Single Line Diagram

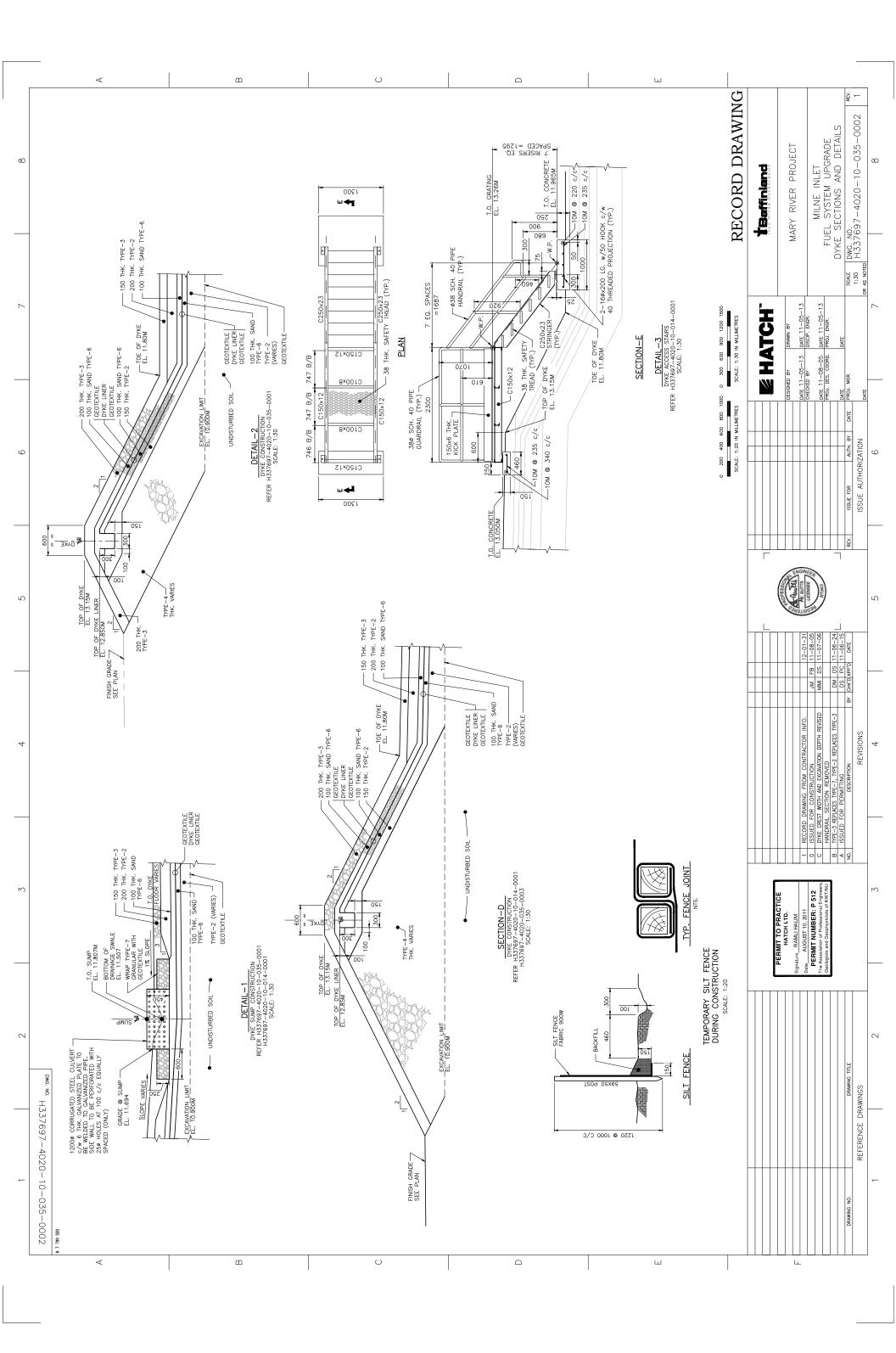


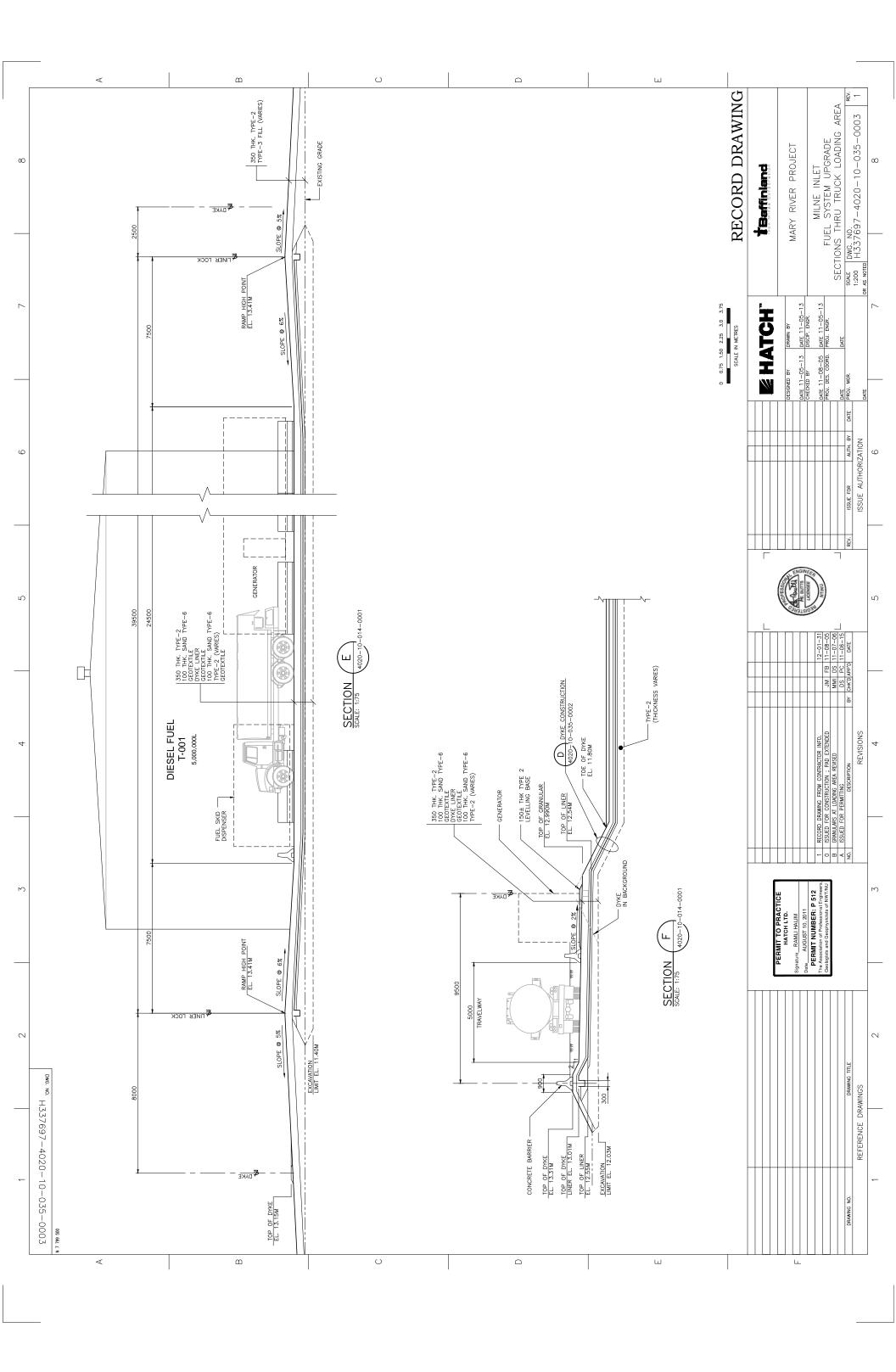


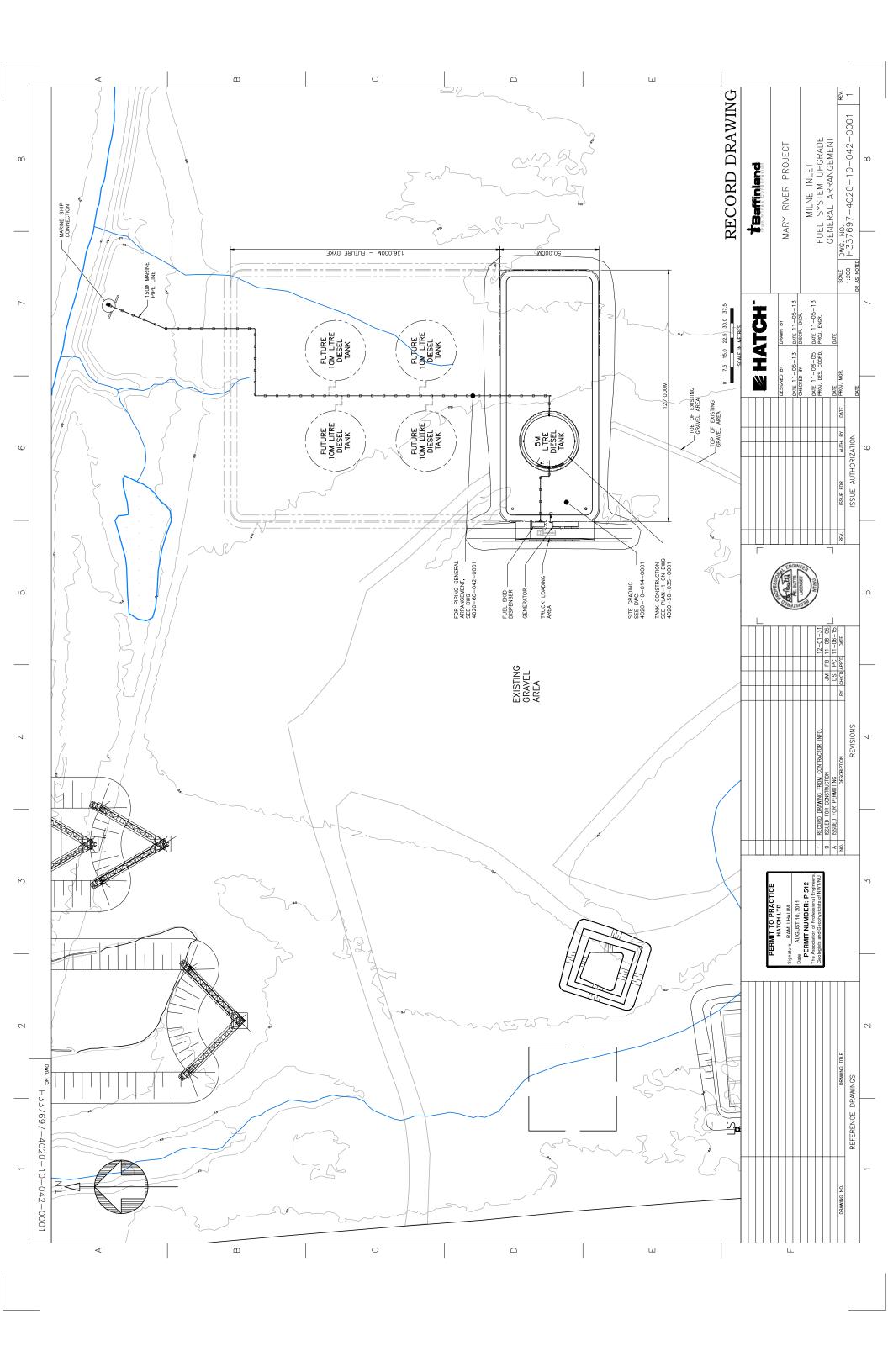


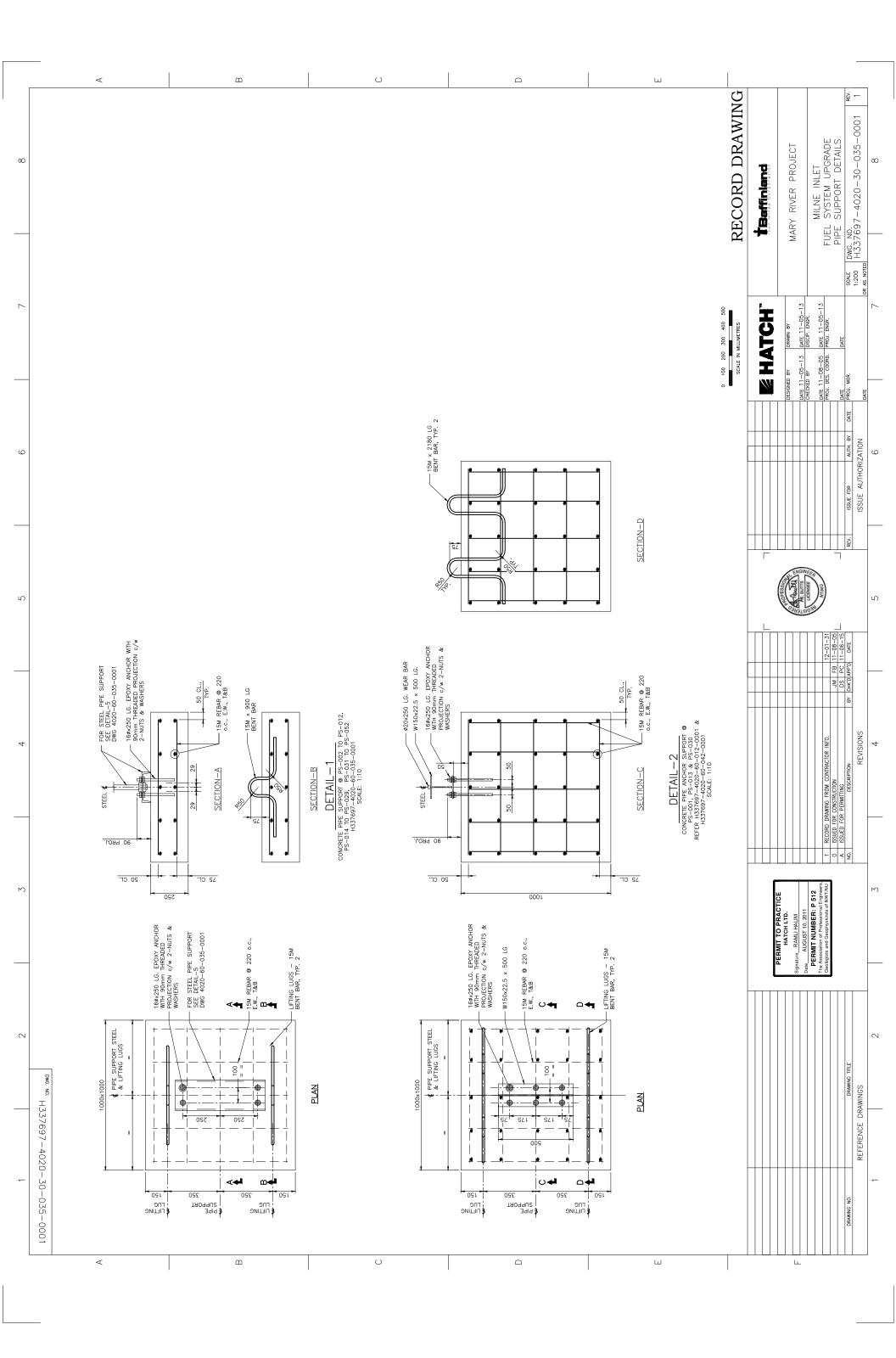


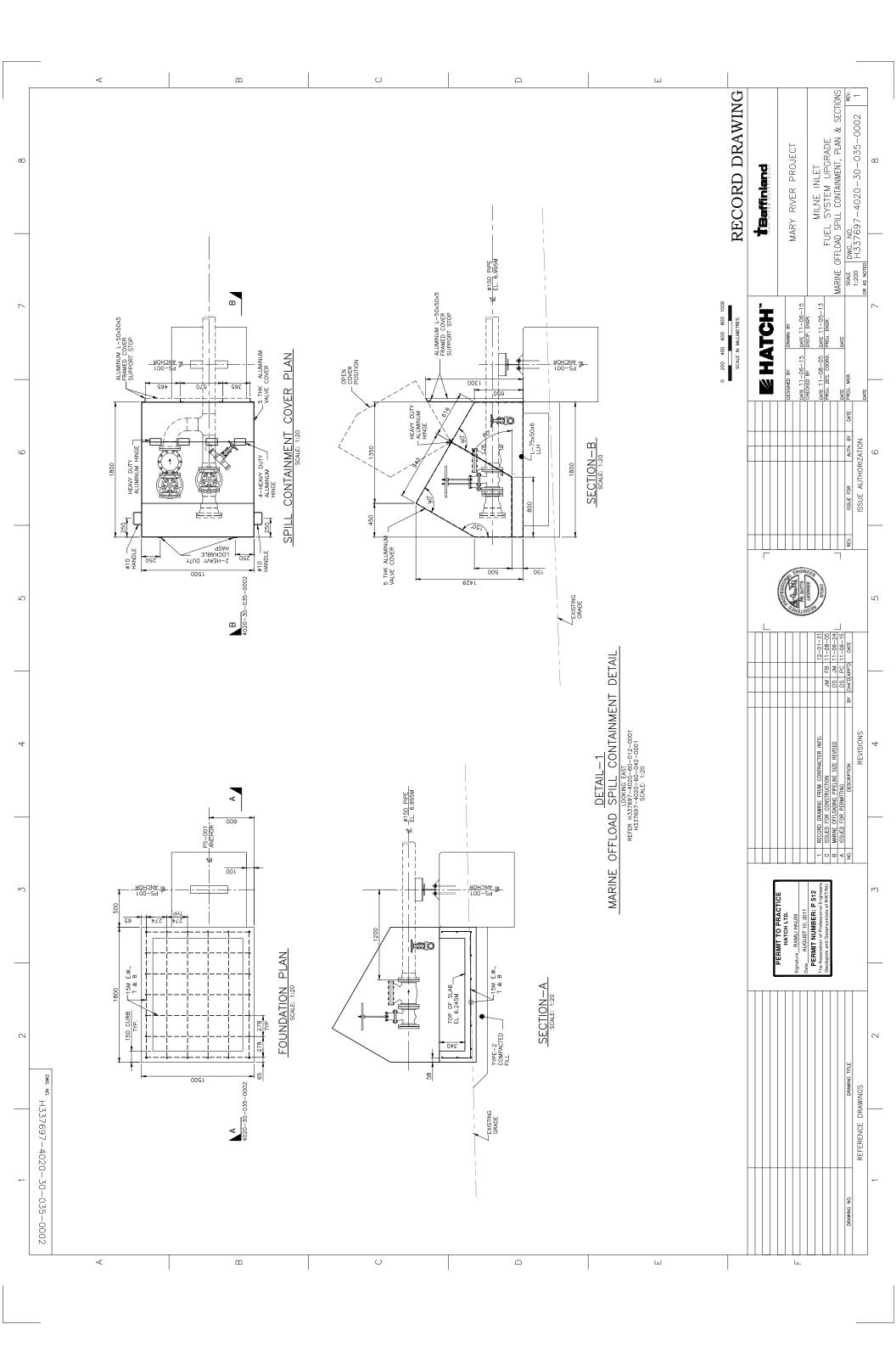


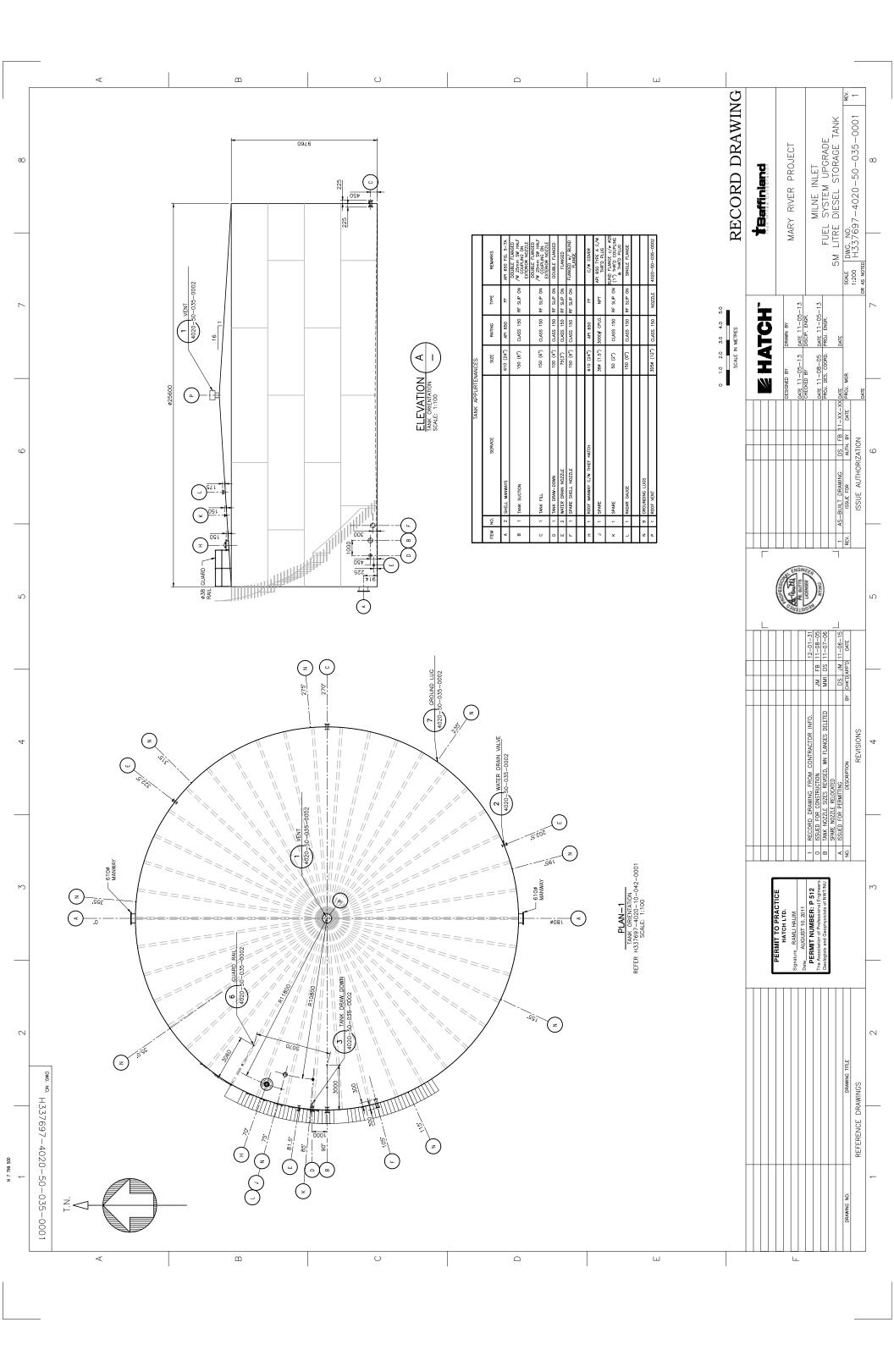


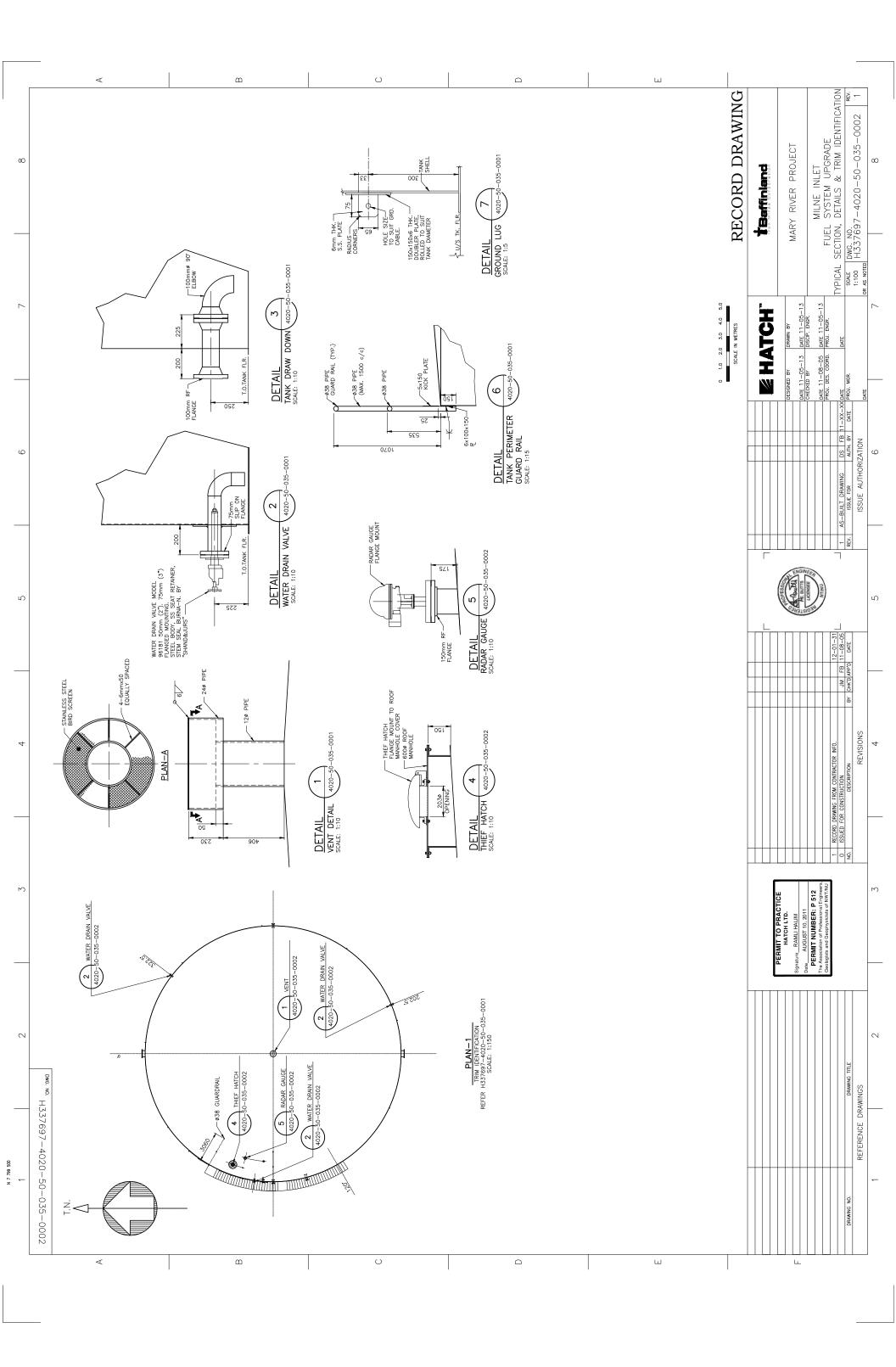


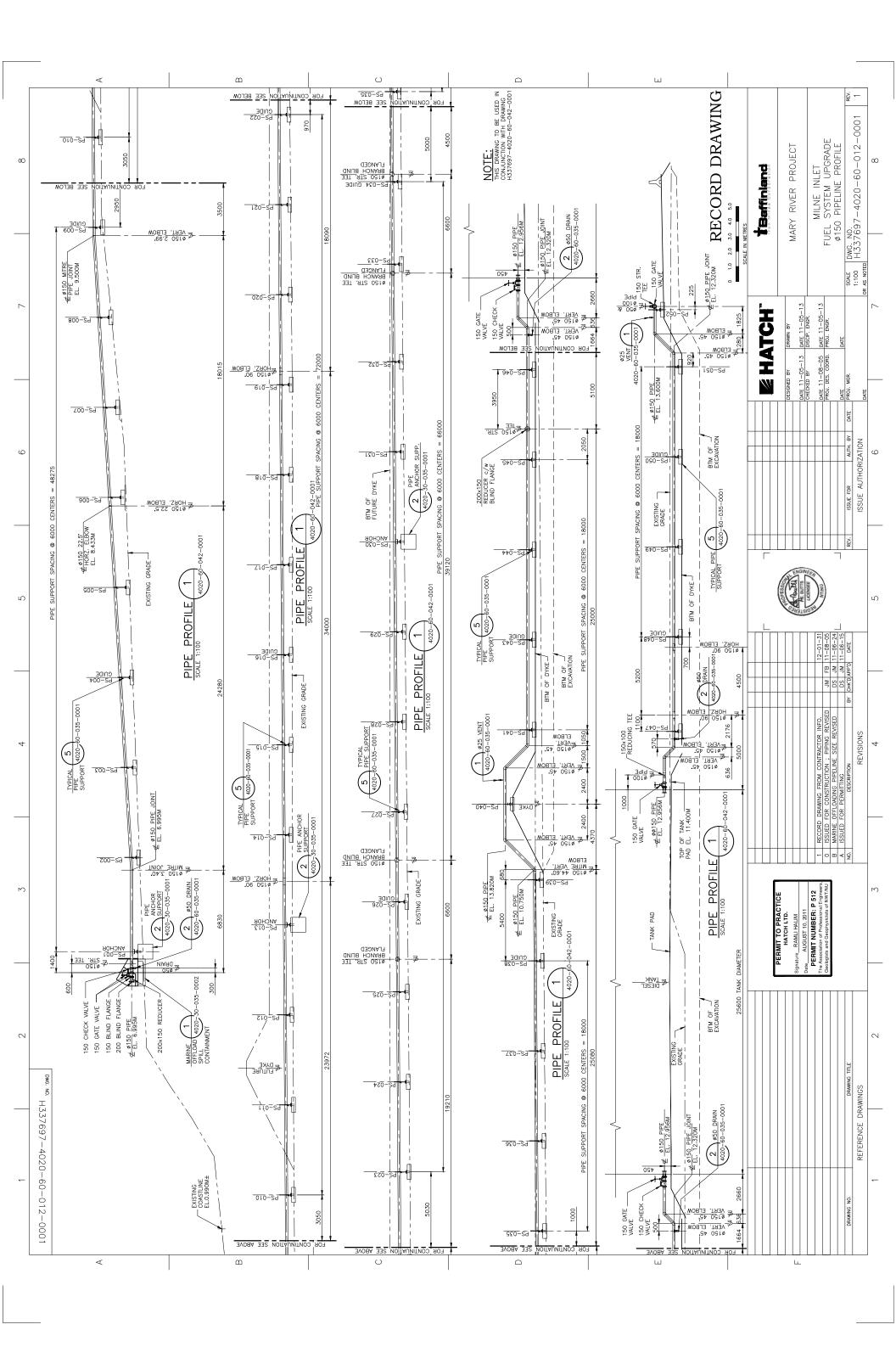


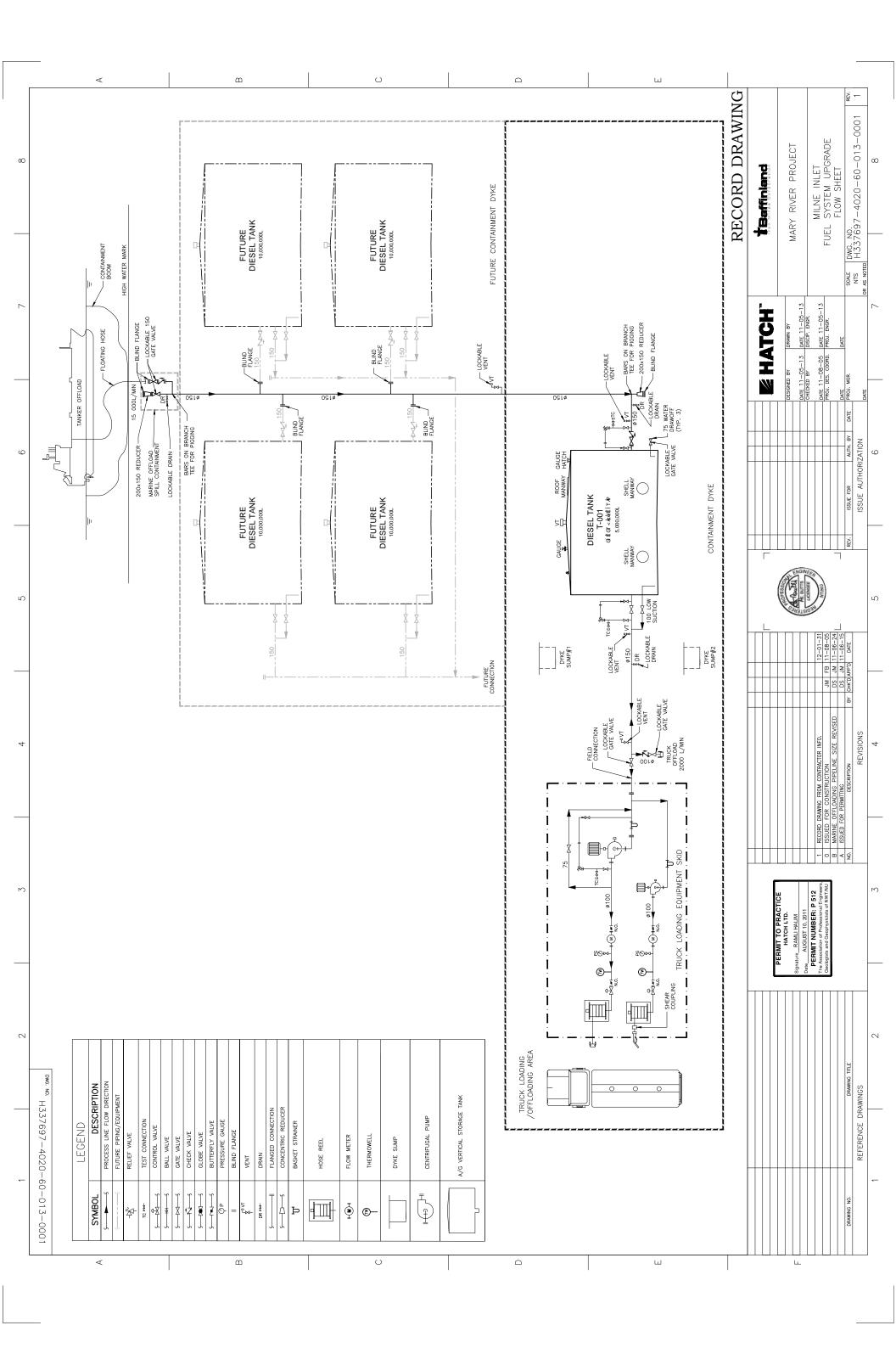


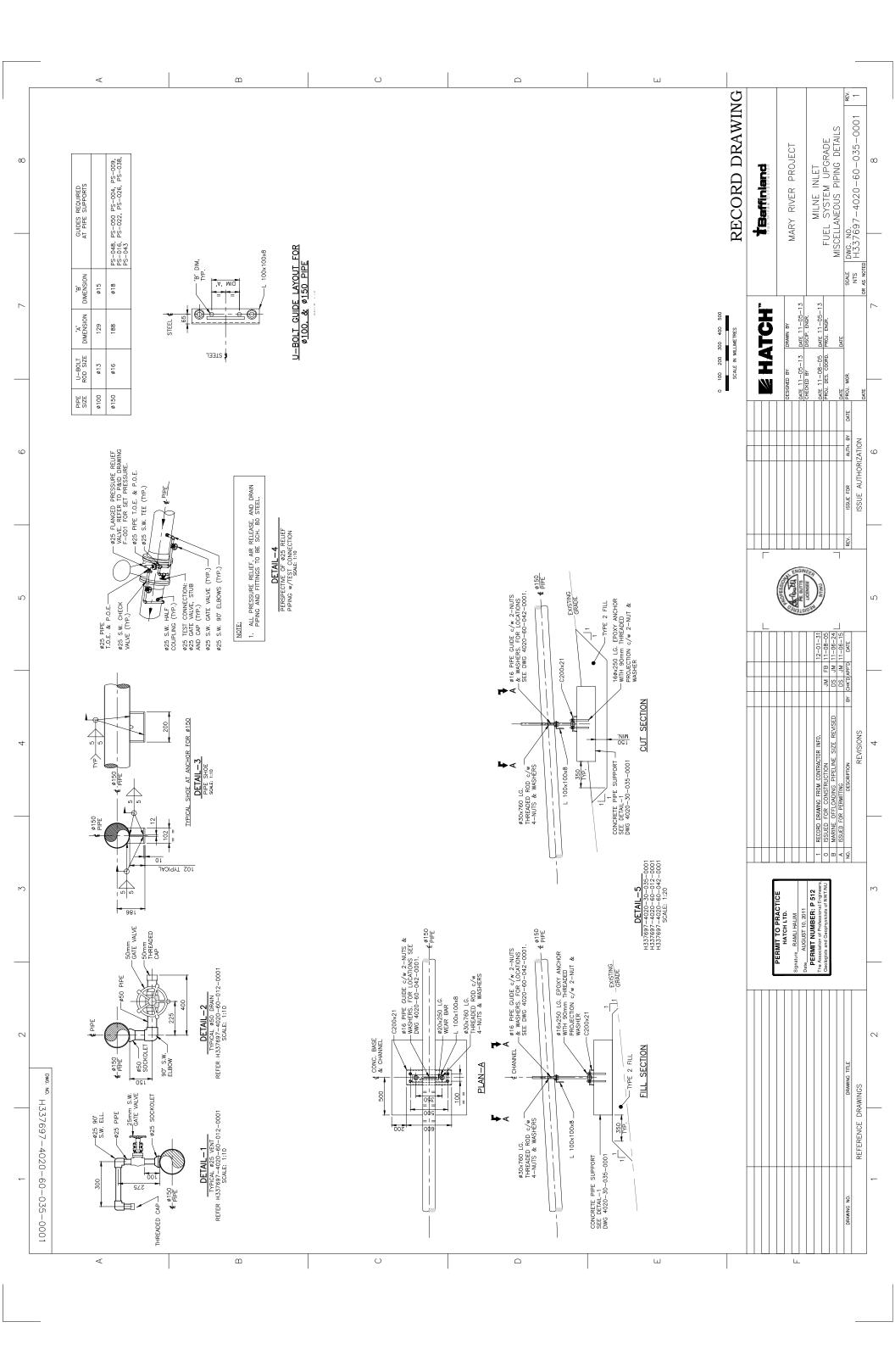


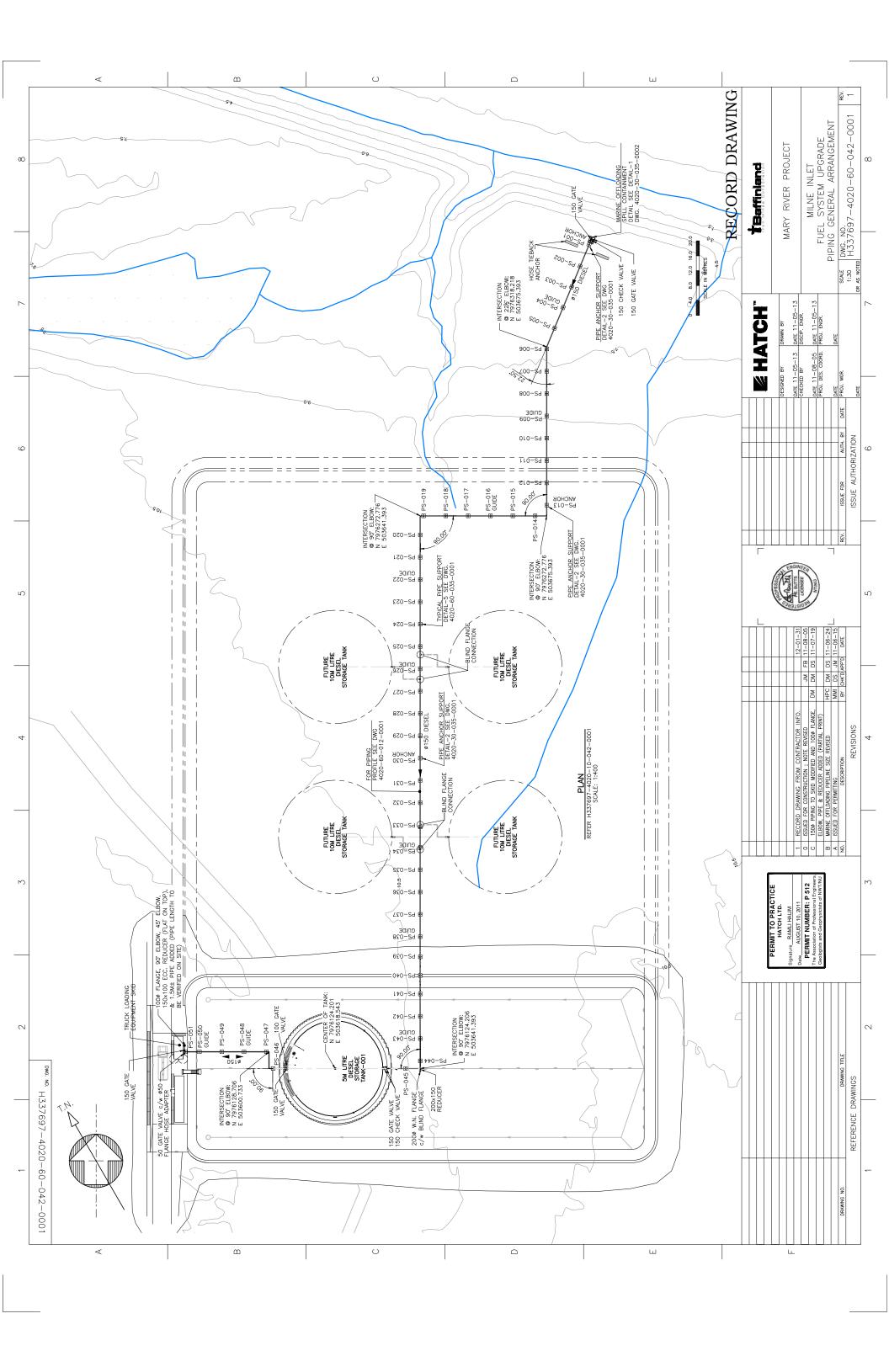


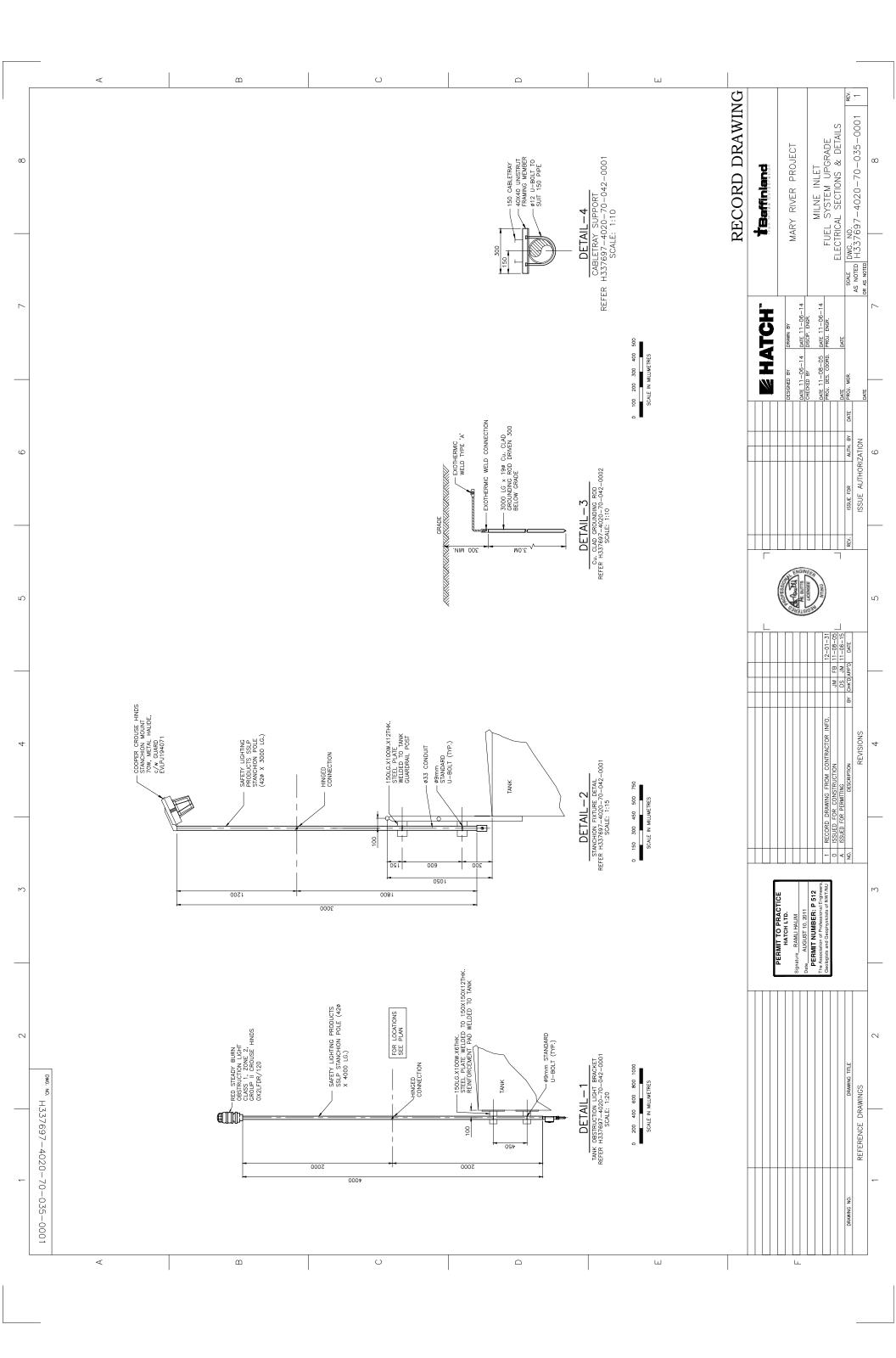


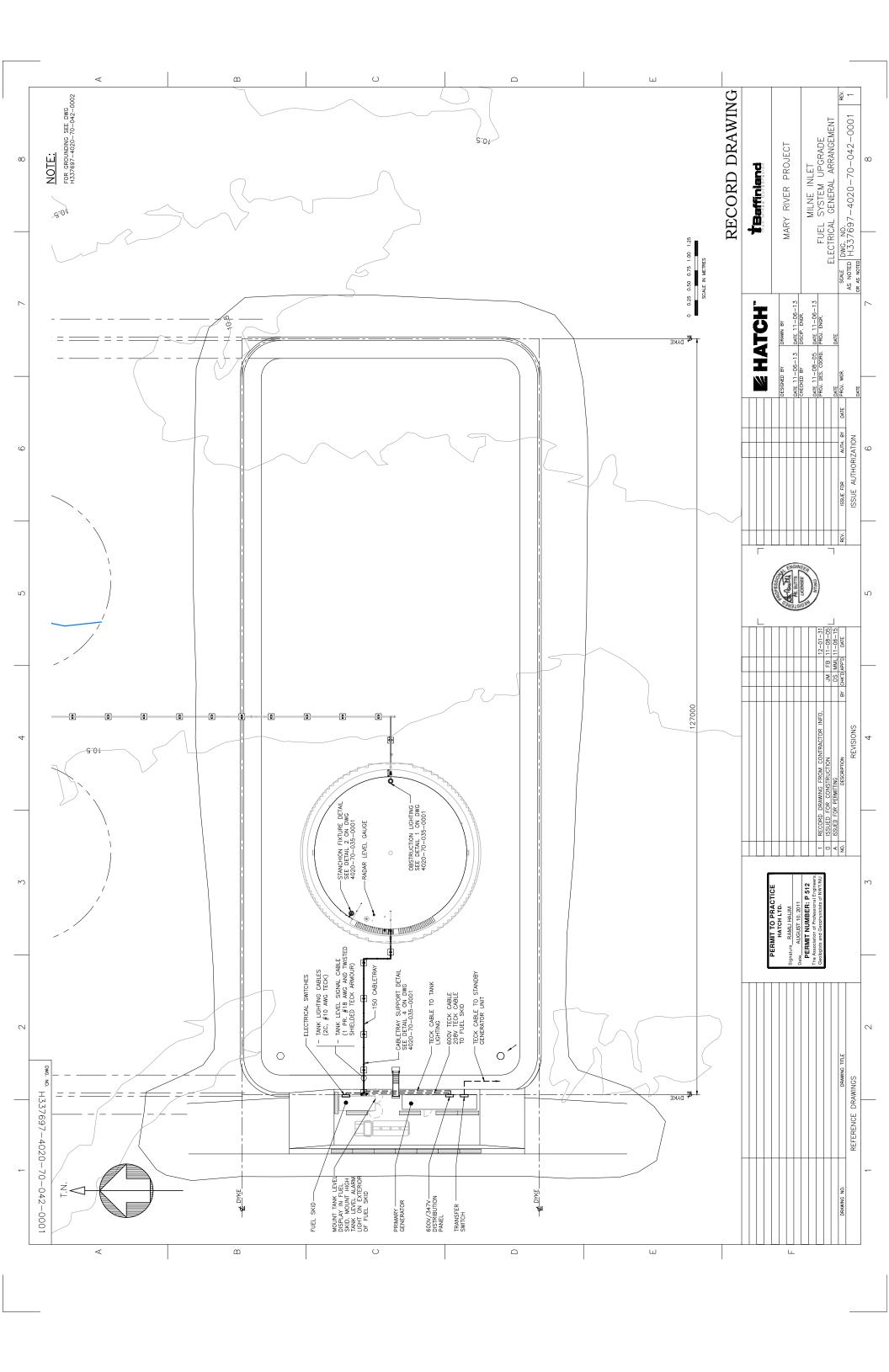


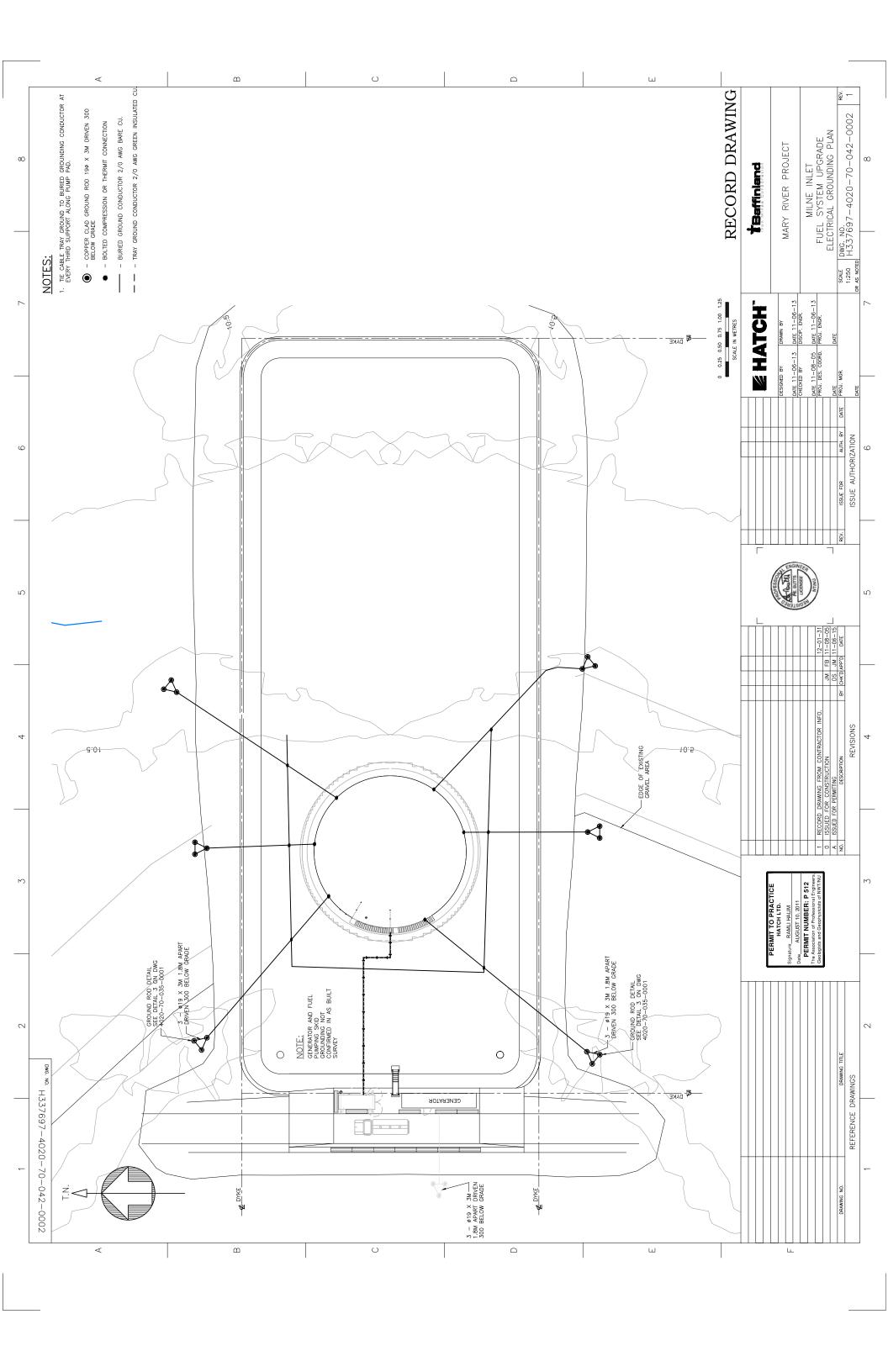


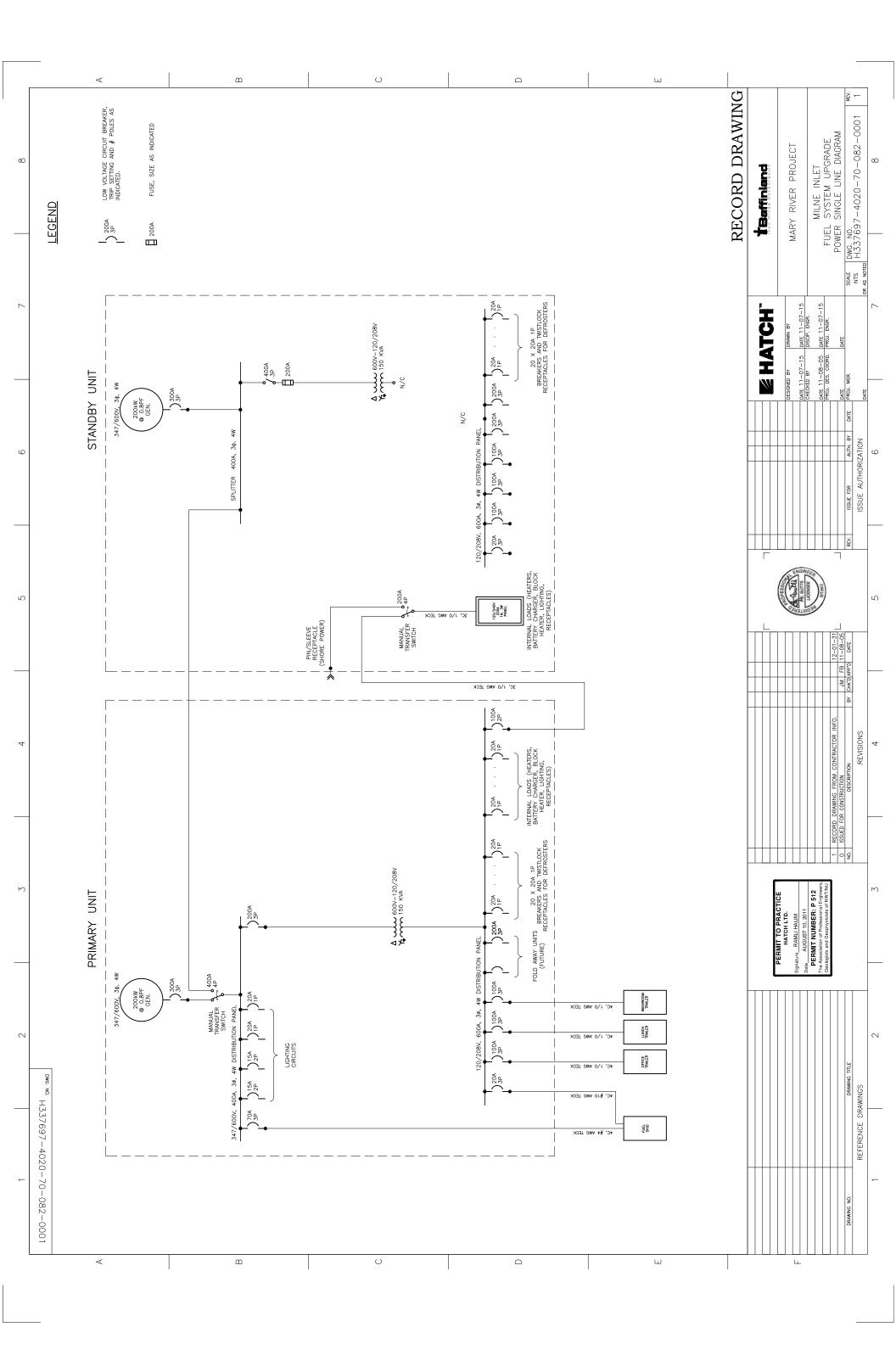
















Baffinland Iron Mines Corporation - Mary River Project Milne Inlet Fuel Storage Facility As-Built Documentation – January 31, 2012

A.3 Daily Inspection Reports



Nuna Contracting Baffinland, Milne Inlet 5 M Liter Fuel Tank Project Daily Report

Date 18-Aug	-11		Contract No:	
Name of Contractor: Nuna L	ogistics		Project: Baffinland - Milne 5M Liter Tank F	arm
Hours Worked: 7am to 7pm				
Weather Report	Time: 7:00 AM	Temp: Low 4°C High 1	1°C Wind Speed: 5 km/hr	Comments: Sunny

Safety Performance

Contractor	First Aid	Medical Aid	Property Damage	Equipment Damage	Spills	Restricted Duties	Near Misses	Yearly Total
Nuna	0	0	0	0	0	0	0	0
Adco	0	0	0	0	0	0	0	0
Layfield	0	0	0	0	0	0	0	0

Incident: No incidents have been reported in the last 24hrs

Corrective Action:

Daily Safety Topics

Dully Surcey 10	hies .
Contractor	Topic
Nuna & All Sub Contractors	1) Discussed which areas are out of bounds 2) Discussed the importance of 3 point contact with all the machines, including the small ones.

Description of Work Preformed Today

Volume Place (ECM)		# of Loads	Daily Total	YTD Total		Screen	ing		
Material Type	From	To	# OI LOAUS	(ECM)	(ECM)	Product	Location	Qty	To Date
Sand/Gravel	Km 2 Borrow	Tank Farm	126	1087	1769				
							Grand Total	0	(
	Grand Total		126	1087	1769				

Daily Activities

Major Project Updates











Daily Activities

Contractor	Daily Activities				
Nuna	Material pushed up in Km2 Borrow Pit	Placed, Leveled and Rolled material at Tank Farm			
Nulla	Loading and Hauling from Km2 Borrow Pit	Road from Km2 borrow pit graded			
Adco	Not onsite				
Auco					
Layfield	Not onsite				

Contractor Remarks

Hatch inspected lift one and and approved.

Baffinland confirmed that Nuna can use 20 m3 of water for soil compaction per day.

Hatch inspected onsite geotextile and approved for use. This will allow Nuna to begin on berm construction before Sea Lift arrives.

New survey elevations marked out on steaks for toe of berm.

Man Power: Daily

Man i ower. Dany							
Company	Personnel	Daily M/H					
Nuna	9	108					
Adco	0	0					
Layfield	0	0					
Underhill	1	12					
Total	10	120					

Man Power: YTD

IVIGIT I OVECT	
Company	YTD Man Hours
Nuna	216
Adco	0
Layfield	0
Underhill	48
Total	264



Date: September 21/2011

Daily Report No.: 17-09

DAILY INSPECTION REPORT

Marlon Coakley

Contract H337697

General Information

Conditions	Workforce	Equipment	Sub Contractor	Other
Temperature: 05-	6	Crane & Support Equipment	Nuna	
Weather: overcast	4		ADCO	
Location: Milne Inlet	13		Gem steel	

Testing:

X-RAY set to start on Friday Sept.23

Activities:

6:45 Safety meeting. Discussed weather conditions ,working at heights ,proper crane signals ,winds speeds , need to insure that that welders use their face shields while using the grinder

Gem Steel Night shift crew will be welding roof plates and removing wind braces

Gem Steel Day shift crew set all roof sheets in place and eight inch nozzle in east side of tank

Gem Steel Day shift crew completed vacuum testing of tank shell

ADCO continues to use the Nuna shop ,to weld pipe sections

ADCO continue to prepare pipe stands for pipe installation

ADCO installing Pig Catchers

ADCO placing and welding pipe ,the pipe is completely weld from the shore line heading south toward containment berm

Ongoing Bears monitoring days and night.

We are now trying to conserve water, due the fact that we have problems with the water truck; the water truck is down due to a mechanical issue. We are excepting the water truck in Mary River to sent to Milne Inlet in the morning

Instructions:









Date: September 24/ 2011

Daily Report No.: 17-09

DAILY INSPECTION REPORT

Marlon Coakley

Contract H337697

General Information

Conditions	Workforce	Equipment	Sub Contractor	Other
Temperature: 02+	3	Crane & Support Equipment	Nuna	
Weather: overcast &light rain	4		ADCO	
Location: Milne Inlet	13		Gem steel	

Testing:

X-RAY testing is scheduled to start Sunday morning, the two X-ray tech are set to arrive from Iqaluit of this evening charter .

Activities:

6:45 Safety meeting. Safety topic discussed with group (look before you leap) weather & wind conditions to be monitor ,working at heights ,100% tie off required hours for man lifts & scissor lifts need to be logged daily on equipment check list

Gem Steel Day shift crew have completed welding all roof plates ,hand rails on top of tank

Gem Steel Day pressure checking all flanges on the tank

Gem Steel Day shift crew completed vacuum testing of floor plates

ADCO continues to use the Nuna shop ,to weld pipe sections

ADCO continue to prepare pipe stands for pipe installation

ADCO placing concrete pipe stands inside containment berm at east end of tank.

ADCO installed lights on top of tank and burying the cable running from the tank to electrical panel

Nuna starting clean work face and move sea cans to lay down area for winter storage

Ongoing Bears monitoring days only

Gem Steel as started to demobe and pack gear into sea cans and cleanup work face

Gem Steel prepare inventory list of the remaining steel for the future five million liter tank

Gem Steel will be sending four of their crew off site today ,excepting to have the remainder of the crew offsite by Wednesday September 28th

Instructions:





Date: September 27/ 2011

Daily Report No.: 17-09

DAILY INSPECTION REPORT

Marlon Coakley

Contract H337697

General Information

Conditions	Workforce	Equipment	Sub Contractor	Other
Temperature: 03-	3	Crane & Support Equipment	Nuna	
Weather: Heavy Snow Mixed With Light Winds	3		ADCO	
Location: Milne Inlet				

Testing: ADCO will be setting up to air test the pipe line from the shore line to east side of five million liter tank

6:45 Safety meeting. The morning safety meeting will ne be hold in the main camp and it include ADCO Nuna and Site Service Weather conditions and proper clothing ,slip trip and falls ,review minutes of the JOHS committee meeting
Gem Steel finished cleanup around tank and moved remaining sea cans to winter lay down area
Gem Steel cleaned inside of the tank and vacuum checked floor plate at the entrance of the man way
ADCO continues setting and welding pipe on east side of tank
3 311
Nuna continues to move sea cans and prepare lay down area for winter shut down
Toured the site with the Joint Occupational Health and Safety Committee ,tour completed site with all the committee members .



Date: August 11/2011

Report No.: 1

INSPECTION REPORT

Contract H337697

General Information

Conditions	Workforce	Equipment	Sub Contractor	Report By
Temperature: 20C		Milne Fuel Skid	Bryant	J. MacLean
Weather: cloudy				
Location: Valley Field Port - Montreal				

Testing:

No testing performed

Equipment Review:

- 1. Fire suppression system is liquid based with a note on it to use anti freeze in system? We had required nitrogen fire suppression for the cold climate.
- 2. No API dry break coupling cam lock with cover has been provided, API dry break required.
- 3. Solenoid control valve is equipped with rate of flow, wasn't really required for a PD pump, make valve a little more complicated. I might be acceptable if the pump bypass had not been deleted.
- 4. No pump by pass system only internal relief for pump maybe OK if the operators remember to shut it off an, however pump is going to be constantly relieving.
- 5. No plugs on vents and drains ball valves are brass, should be steel.
- 6. A 40 mesh strainer before pump no strainer before meter. This is a bit too fine for the pump suction.
- 7. No strainer before meter, the 40 mesh was to go here
- 8. No evidence that pumps were aligned no shims Base did not appear to be machined, most likely not flat.
- 9. Bolts loose and nuts falling off gear reducer for small pump check of fasteners will be required on site
- 10. Doors cut in end of container to access hose reels are very heavy and have no handle or decent latch system
- 11. Insulation has come off inside access doors
- 12. System was tested with diesel fuel I assume, should be OK until some Arctic grade can be run through it. It is heat traced and insulated
- 13. Labeling on electrical panel not correct labeled as foreign voltage which is incorrectly spelt
- 14. Pump base is light, because the there is no pump by pass; this pump is going to vibrate when the internal relief starts chattering.
- 15. The meter displays are in gallons, should be in litres
- 16. Labeling for switches i. e. hose reel start missing, pump stop/ start

- 17. Only 800 watts of heat for pump area, probably will not keep up, however the roll up door is not insulated, there is an insulation piece provided to cover the opening. Has to be put in place.
- 18. The loading section only has one 400 watts heater
- 19. Recommend to either use a flexible connection to hook up to it or an anchor just outside the cabinet. This is a spot where if we have any pipe stress it is going to translate into the pump.

Photos:





















Baffinland Iron Mines Corporation - Mary River Project Milne Inlet Fuel Storage Facility As-Built Documentation – January 31, 2012



Part 3 Design and Installation of Aboveground Stor	age Tank Systems
3.1.1 (1) This Part applies to the design and installation of a new aboveground storage tank system	
3.1.1 (2) A storage tank installed in a concrete vault located below grade with the interior of the vault not filled with backfill material shall be considered an aboveground storage tank for the purpose of this Code.	N/A
Section 3.2 General Requirements	
3.2.1 Except as provided in this Part, the design, fabrication and installation of an aboveground storage tanks system shall be in conformance with NFCC.	The new tank farm 5M A/G tank components have been installed in conformance with Section 4 of the NFCC.
3.2.2 Except as provided in this Part, the design and installation of an aboveground storage tank system connected to an oilburning appliance and equipment that comes within the scope of CAN/CSA-B139-00, "Installation Code for Oil Burning Equipment" shall be in conformance with that Code.	N/A
3.2.3 An aboveground storage tank, components, and accessories, for which there is a recognized standard, shall be approved only for the uses indicated under the standard.	All components, accessories and trim comply to this section.
3.2.4 A company or individual that is authorized by the authority having jurisdiction shall verify that the design and installation of an aboveground storage tank system meets the requirements of this Code or other requirements as specified by the authority having jurisdiction.	Hatch has reviewed the As-Builts, as constructed status of the facility and confirms it meets the applicable requirements of this code.
3.2.5 An aboveground storage tank system shall be installed by a company or individual that is authorized by the authority having jurisdiction.	Hatch is registered to practice engineering in Nunavut and has completed the design, managed the construction and reviewed all As-Built documents pertaining to this tank system. All drawings have been stamped by Registered Professional Engineers.

3.2.6 An aboveground storage tank shall be equipped to control emissions of volatile organic compounds in conformance with CCME PN 1180, "Environmental Guideline for Controlling Emissions of Volatile Organic Compounds from Aboveground Storage Tanks". (See Appendix B, note B.3.2.6)	Stored fuel is Arctic Grade Diesel with a vapour pressure less than 10kPA, N/A
3.2.7(1) The Owner of an aboveground storage tank system shall provide an as-built drawing to the authority having jurisdiction in the manner and time frame as specified by the authority having jurisdiction.	As-Built Drawings form part of this report.
3.2.7(2) As-built drawings for an aboveground storage tank system shall include, as a minimum: a) The outline of all storage tanks; b) The centerline of all piping or piping groups; c) The centerline of all underground electrical power and monitor sensor conduit; d) Building foundation outlines; e) Secondary containment systems; and Property lines.	As-Built Drawings forming part of this report meet the minimum requirements as stated in this section.
3.2.8(1) No person shall install an aboveground storage tank system unless: a) Required permits or approvals have been obtained from the authority having jurisdiction; b) Plans, drawings and specifications of the system or equipment have been examined by the authority having jurisdiction; and The plans, drawings and specifications referred to in Clause (b) bear the stamp and signature of a professional engineer licensed to practice in the province/territory.	 a) Permit for the Tank construction and containment dyke was obtained from the Nunavut Water Board and the Qikiqtani Inuit Association. b) Drawings were submitted to the above authorities. c) Submitted Drawings to the Authorities bear stamp and signatures of Registered Professional Engineers.
3.2.9 An aboveground storage tank system shall be designed and installed in accordance with the manufacturer's instructions, the appropriate standards, and this Code.	The aboveground tank has been constructed in conformance with API 650. The aboveground piping has been constructed in accordance with the NFCC and ANSI 31.3 Process Piping. The Secondary Containment has been constructed in conformance with this code and NFCC.
Section 3.3 Field-erected Storage Tanks Systems	
 3.3.1(1) A field-erected storage tank system shall: a) Have corrosion protection in conformance with Section 3.8; b) Have a secondary containment system in 	a) No underground steel piping or tanks at this facility. The use of secondary containment liner and low corrosion rates preclude the use of CP on the A/G tank floor.

conformance with Section 3.9; c) Have leak detection in conformance with Part	b) Conforms to Section 3.9.c) Conforms, see Section 6 in this
6;	table.
d) Have containment sumps, as applicable;e) Be provided with overfill protection;	d) N/A e) i) N/A
i. For pipeline delivery, in the form of an	ii) Conforms, radar gauge and
alarm system that will automatically	alarm.
alert pipeline or terminal personnel so	f) Conforms.
that action can be taken to prevent the	
storage tank from being overfilled; ii. For truck, rail, ship, or barge delivery,	
ii. For truck, rail, ship, or barge delivery, in the form of a visual and audible	
alarm system for detecting a high level	
that will activate and alert personnel in	
enough time to terminate the flow of	
the product to the storage tank and	
prevent an overfill (See Appendix B, note B.3.3.1(1)(e)(ii)), or	
iii. In conformance with API RP 2350-96,	
"Overfill Protection for Storage Tanks	
in Petroleum Facilities"; and	
f) Have piping in conformance with Part 5, as	
applicable.	
3.3.2 If vapour balancing or vapour recovery systems are required, they shall be designed and built in conformance with CCME PN 1057, "Environmental Code of Practice for Vapour Recovery in Gasoline Distribution Networks".	N/A
Section 3.5	
3.5.1(1)	N/A
` '	
3.5.1(2)	N/A
Section 3.6 Design Standards	
3.6.1(1) Based on the design, an aboveground	The tank has been designed and
storage tank shall be designed, built, and	constructed in conformance with API 650 – 11 th Edition and all
approved in conformance with the following, as applicable:	API 650 – 11" Edition and all issued Addenda .
API Std 650-98, "Welded Steel Tanks for Oil	155554714457744
Storage";	
3.6.2 An overfill protection device shall be	The tank is equipped with an
designed, built, and approved in conformance with ORD-C58.15-1992, "Overfill Protection	electronic radar gauge which has over fill set points established and
Devices for Flammable Liquid Storage Tanks."	external alarm. All product transfer
	occurs by marine delivery and
	pipeline for which there is on site
	monitoring during all operations.

3.6.3 A containment sump shall be designed, built, and approved in conformance with ORD-C107.21-1992, "Under-Dispenser Sumps".	N/A
3.6.4 A liner shall be designed, built, and approved in conformance with ORD-C58.9-1997, "Secondary Containment Liners for Underground and Aboveground Tanks".	The secondary containment dyke has been constructed with a Layfield Hazguard 535 synthetic liner installed and tested in conformance with this code and in accordance with manufacturers instructions.
3.6.5 An aboveground storage tank designed to contain an allied petroleum product shall be designed, built, and approved for use with that product.	N/A
3.6.6(1)	
Section 9	
 3.9.1(3) A secondary containment system for a field-erected aboveground storage tank shall be: a) A single-wall and single-bottom storage tank placed entirely within a dyked area, with an impermeable barrier in the floor of the containment area and in the dyke walls; b) A single wall, double-bottomstorage tank placed entirely within a dyked area, with an impermeable barrier in the floor of the containment area and in the dyke walls, sealed to the perimeter of the storage tank or pad when the liner is not installed under the tank. 	Construction conforms to 3.9.1(3) a) A synthetic membrane liner has been installed in the granular construction of the dyke.
3.9.2(1) Except as provided in Sentence (2), a secondary containment impermeable barrier shall be: a) Designed, built, and approved in conformance with: iv. ORD- C58.9-1997, "Secondary Containment Liners for Underground and Aboveground Tanks", or v. ORD-C142.20-1995, "Aboveground Secondary Containment Tanks"; and b) Installed so that: i. The liner is sealed to the perimeter of the storage tank or pad when the liner is not installed under the tank; ii. The liner extends to the top of the dyke wall; The liner is covered with a non-combustible	The liner for this facility is in conformance with ORD-C58.9-1997, the liner extends to the top of the dyke wall and is placed entirely under the tank floor. The liner is covered with a minimum of 450mm of granular material and placed between layers of geotextile and sand for protection. The liner is covered with a minimum of
material of such nature and thickness that it	450mm of granular material.

will not fail when the secondary containment is exposed to fire; and	Conforms
3.9.2(2) A secondary containment impermeable barrier that does not conform to Sentence (1) Shall:	N/A
a) Use material compatible with the product being stored and acceptable to the authority having jurisdiction (See Appendix B, note	N/A
 3.9.2(2)(A)); and b) Be designed, constructed, and maintained to ensure a maximum hydraulic conductivity of 1x10⁻⁶ 	N/A
3.9.3(1) Liner penetrations shall be located at the high point or in a raised part of the dyke floor. (See Appendix B, note B.3.9.3(1))	No liner penetrations are incorporated in the construction of dyke.
Section 3.10 Spill Containment and Runoff Collection	
3.10.1 Spills, overfills, and storm water from product transfer areas shall be contained, treated and disposed of in conformance with the applicable provincial or territorial regulations, guidelines or policies.	The fuel transfer area is incorporated in the design of the secondary containment such that all run-off is collected into the containment area.
3.10.2 Containment area floors within dykes shall slope away from the tank base towards a sump at a slope greater than 1%.	Dyke floor slope is a minimum of 1% from the tank to collection sumps.
3.10.3(1) An oil-water separator used to treat storm water runoff, overfills, or a spill from the product transfer area shall be sized for a minimum hydraulic flow rate of a ten year return, one hour storm event,	An OWS will be purchased in 2012 as a mobile unit sized and conforming to this section for this tank farm facility. Currently the existing OWS and
with the one hour rainfall intensity data obtained for the nearest weather station, and: Be designed, built, and approved in conformance with ULC-S656-2000, "Oil-Water Separators";or	treatment system for the Bladder Tank Farm can/will be used in the event of a hydrological occurrence or spill.
Part 5 – Design and Installation of New Piping Systems	s
Section 5.1 Scope	
5.1.1 This Part applies to the design and installation of piping associated with a storage tank system.	
Section 5.2 General Requirements	
5.2.1(1) Piping materials shall, as applicable, be designed, built, and approved in conformance with	Conforms

the following:		
a) ASTM A 53, "Pipe, Steel, Black and Hot-		
Dipped, Zinc-Coated, Welded and Seamless",		
5.2.2 Except as provided in this Part, the design and	Conforms	
installation of piping shall be in conformance with the		
NFCC.		
5.2.4 Piping material shall be installed and	As per operators Operations and	
maintained in accordance with an approved	Maintenance Manual.	
standard, code, or in a manner acceptable to the		
authority having jurisdiction.		
5.2.5 Single-wall piping shall not have buried or	No buried piping. N/A	
concealed mechanical joints. (See Appendix B, note		
B.5.2.5)		
5.2.6 Leak detection testing and monitoring of piping	Visual leak detection on A/G piping-	
shall be in conformance with Part 6.	conforms.	
5.2.7 A thermal relief valve shall discharge into the	Conforms.	
low pressure side of the piping.	Comornio.	
	Interval in a tall A/O tall tall	
5.2.8(1) Piping located below the maximum product	Inlet valving to the A/G tank from the	
level in a tank shall be provided with a means to	marine pipeline has check and gate	
prevent the release of liquid from the tank by syphon	valves installed on the tank inlet nozzle.	
flow.		
5.2.8(2) Except as provided in Sentence 5.2.8(3), a	Conforms.	
manual shut-off valve shall be lockable or have a		
method of locking.		
5.2.8(3) A manual shut-off valve on the piping	N/A	
connecting a storage tank and a heating appliance or		
a stationary combustion engine does not need to be		
lockable or have a method of locking.		
Section 5.3 Product Transfer		
Continue Trouble Transfer		
5.3.1 The fill pipe on a storage tank with a capacity of	All piping systems are sealed on the	
5 000 L or more shall be equipped for the attachment	inlet and outlet connection ends with	
of a liquid and vapour-tight connection at the time of	liquid and vapour tight cap and	
filling and shall be sealed with a liquid- and vapour-	connections Conforms.	
tight cap when not in use.		
5.3.2	N/A	
Section 5.4 Design Standard for Underground Piping S	Systems	
Section 5.5 Installation		
5.5.1 Piping shall be installed by a company or	Piping was installed by Certified	
individual that is authorized by the authority having	Contractor with Certified Welders and	
jurisdiction.	procedure for same.	
5.5.2 Piping shall be located and maintained to	Conforms	
permit the eventual removal of the piping when the		
storage tank system is permanently withdrawn from		
service.		
301 VI00.		

5.5.3 Piping shall be located in a manner that will prevent allowable design stress from being exceeded.	Piping is designed and constructed in conformance with B31.3-Process Piping Conforms.	
5.5.4 Piping located aboveground shall be protected from physical damage due to impact.	Conforms	
Section 6.2 General Requirements		
6.2.1(1) A storage tank system shall be tested for leaks in conformance with Sections 6.2 and 6.3 (ii) for an aboveground storage tank system, final installation shall be before the storage tank system is put into service; and 6.2.3 Manual or electrical dip or inventory	Tank has been tested in conformance with API 650 and 653. Additional Radiographic testing has been performed in lieu of hydrostatic tank testing. Conforms.	
reconciliation shall be in conformance with Section 8.3.	Comornis.	
6.2.8 Visual leak detection procedures shall be performed in conformance with Sentence 8.4.1(3).	Conforms	
6.2.11(1) A high-pressure inert gas or vacuum leak detection test for piping shall be in conformance with the following procedures, as applicable. d) a test pressure or vacuum shall, as applicable: (ii) not exceed 700 kPa (gauge), except when the piping system is designed for such pressures; and	All piping has been tested in conformance with 31.3 Process Piping. Conforms.	
Section 6.3 Leak Detection Interlocks and Alarms	N/A	
Section 6.4 Monitoring Wells	N/A	
Section 6.5 Groundwater Monitoring Wells	N/A	
Section 6.6 Vapour Monitoring Wells	N/A	
Section 6.7 Frequency and Method	N/A	
 6.7.1 The reference letters in Table 2 represent the leak detection and monitoring methods specified in Tables 3 through 9. 6.7.2(1) Tables 3 through 9 specify the frequencies and methods of leak detection and monitoring that shall be used upon installation and, as applicable 	a) Conforms b) Conforms c) N/A	
(See Appendix B, note B6.7.2(1)):a) For in-service monitoring;b) For periodic leak detection testing; orc) If a leak is suspected		

Table 4 – Aboveground Storage Tanks				
Containment	Final Installation Leak Detection	In-service Monitoring	Periodic Leak Detection	Leak Suspected
API Std 650-98 (within approved secondary containment)	API 650 Standard	IR and VLD; or HTSCM	API 653	PLDT; or API 653
Table 6 – Aboveground Piping				
Containment	Final Installation Leak Detection	In-service Monitoring	Periodic Leak Detection	Leak Suspected
All types	PLMLDT; HPVLDT	VLD	Not required	PLMLDT; or HPVLDT