

DRAWING NO.	DESCRIPTION
1-C2101-DB-92100-0001 C001 00	COVER SHEET
1-C2101-DB-91135-0001 0001 00	3" CONTROL POINT VALVE ABANDONMENT DETAILS
1-C2101-DB-92100-0001 0001 00	3" & 4" CONTROL POINT VALVE LOCATION DETAILS
1-C2101-DB-92110-0001 0001 00	3" & 4" CONTROL POINT FABRICATION DETAILS
1-C2101-DB-91121-0001 0001 00	EXCAVATION AND COMPACTION DETAILS
1-C2101-DB-91121-0001 0002 00	EXCAVATION AND COMPACTION DETAILS

STATION INSPECTOR:

NAME:
CELL PH.:
START DATE:
COMPLETION DATE:
ENERGIZED DATE:

PROVIDE A COMPLETE DESCRIPTION, MODEL OR FIGURE NUMBER OF MAJOR COMPONENTS USED IN THE PROJECT WORK SHOWN IN THIS SET OF DESIGN DRAWINGS;

\* REGULATORS-

\* RELIEF VALVES-

\* ISOLATION VALVES-

	🙆	2013-FEB-28	ISSUED FOR TENDER		T.S	
REFERENCE DOCUMENTS:	NO.	DATE	REVISION	S	APP.	
SCALE: N.T.S.		<b>★</b> Manit Hydro		TRIBUTION	1	<u>ل</u>
DRAWN: J.DUVAL		<u> </u>	-DESIGN-			1 Z
DATE: 2013-FEB-27		(	OVER SHEET FO	 )R		ORIGINAL
NETWORK:			ONTROL POINT V			Š
CHECK: -	MORRIS 3" & 4" TP PIPELINES				AUTOCAD	
CATH.: -	DRAWIN	IG NO.		SHT.	REV.	₹
GIS GRID: 0088-0320	1	I-C2101-DB	-92100-0001	C001	00	

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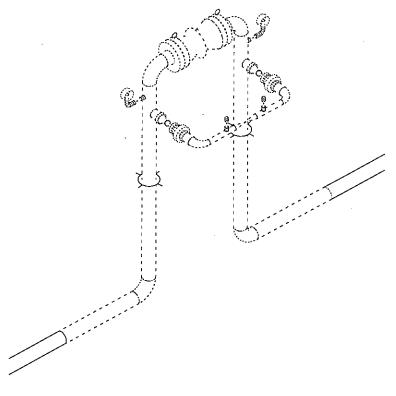
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# **PLAN VIEW**

3" CONTROL POINT VALVE ABANDONMENT DETAILS SCALE: 0'-1/2" - 1'-0"



**ISOMETRIC VIEW** 

3" CONTROL POINT VALVE ABANDONMENT DETAILS SCALE: 0'-1/2" - 1'-0"

LEGEND:

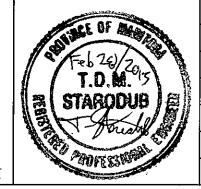
— EXISTING

----- ABANDON & REMOVE

### NOTES:

- CONTRACTOR SHALL LOCATE ALL UTILITIES AND PIPELINES PRIOR TO EXCAVATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO EXCAVATION.
- 3. DIMENSIONS IN ( ) ARE NOMINAL AND TO SUIT WORK REQUIRED.

IN MY OPINION, THE PLANS AND SPECIFICATIONS SUBMITTED ARE IN ACCORDANCE WITH CSA Z662-11 GAS PIPELINE SYSTEMS AND THE CONSTRUCTION OF THE **FACILITIES PROPOSED HEREIN** WILL NOT ENDANGER THE



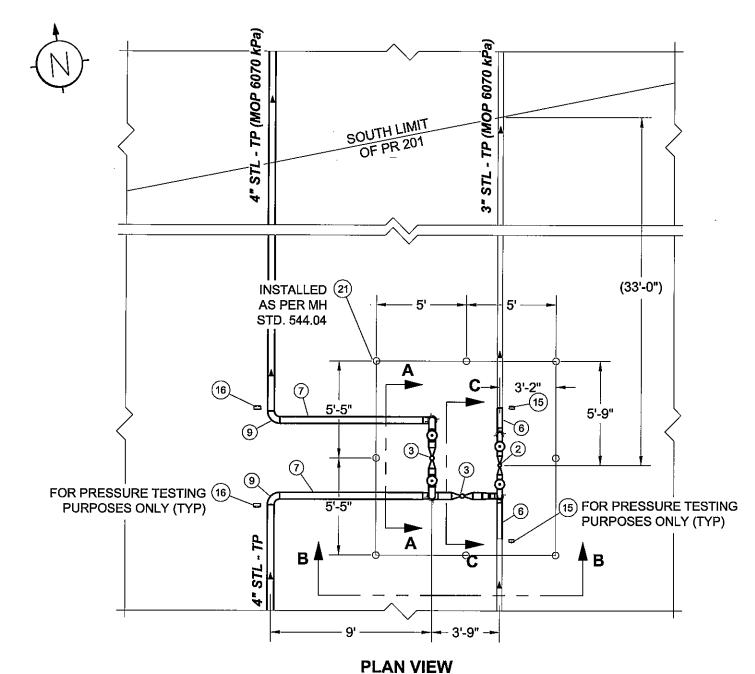
	40	2013-FEB-28	ISSUED FOR TENDER		
REFERENCE DOCUMENTS:	NO.	DATE	REVISIO	vs	
SCALE: AS NOTED		▲ Manit	oba GAS DIS	STRIBUTION	1
DRAWN: J.DUVAL		<b></b>	-DESIGN-		
DATE: 2013-FEB-27	ABANDONMENT DETAILS FOR				
NETWORK:			NTROL POINT V		
СНЕСК: -			IS 3" & 4" TP PIP		
CATH.: -	DRAWII	NG NO.		SHT.	
GIS GRID: 0088-0320		1-C2101-DB	-91135-0001	0001	

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NO	OTV	,	BILL OF MATERIALS	CIIC
NO.	QTY	SIZE	DESCRIPTION	CIIC
1	4	2	600 ANSI FLG x BW FULL PORT BALL VALVE	
2	1	3	600 ANSI BW FULL PORT BALL VALVE	
3	2	4	600 ANSI BW FULL PORT BALL VALVE	
4	13'-0"	3	SCH 40 SMLS. STL. ASTM A-106 GR. B PIPE	009228
5.	16'-0"	4	SCH 40 SMLS. STL. ASTM A-106 GR. B PIPE	009229
6	4'-0"	3	SCH 40 SMLS. STL. ASTM A-106 GR. B YJ PIPE	
7	22'-0"	4	SCH 40 SMLS. STL. ASTM A-106 GR. B YJ PIPE	
8	4	3	SCH 40 BW SMLS. STL. ASTM A234-WPB 90 DEG LR ELBOW	433303
9	6	4	SCH 40 BW SMLS. STL. ASTM A234-WPB 90 DEG LR ELBOW	009259
10	1	3	SCH 40 BW SMLS. STL. ASTM A234-WPB TEE	620723
11	1	4	SCH 40 BW SMLS. STL. ASTM A234-WPB TEE	989034
12	2	3 X 2	SCH 40 BW SMLS. STL. ASTM A234-WPB REDUCING TEE	013002
13	2	4 X 2	SCH 40 BW SMLS. STL. ASTM A234-WPB REDUCING TEE	013005
14	1	4 X 3	SCH 40 BW SMLS. STL. ASTM A234-WPB CONC REDUCER	012445
15	3	3	SCH 40 BW SMLS. STL. ASTM A234-WPB CAP	009241
16	3	4	SCH 40 BW SMLS. STL. ASTM A234-WPB CAP	009243
17	4	1/2	3000# THD FORGED STEEL ASTM A-105 [hex head] PLUG	239811
18	4	2	600 ANSI FORGED STEEL ASTM A-105 RF BLIND FLANGE c/w 1/2" NPT tap on center	
19	4	2	600 ANSI FLEXITALLIC GASKET	010843
20	32	5/8 X 4+1/4	STL. ASTM A-193 GR. B7 STUDS c/w 2H HEX NUTS	601508
21	8	4	BOLLARD, SCH 40 STL. ASTM A-53 GR. B PIPE	011766

#### NOTES:

CHECK: -

GIS GRID: 0088-0320

CATH.:

- 1. CONTRACTOR SHALL LOCATE ALL UTILITIES AND PIPELINES PRIOR TO EXCAVATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO EXCAVATION.
- 3. FOLLOW MH GAS PIPELINE WELDING PROCEDURE MHG-11 FOR ALL SHOP FABRICATED WELDS.
- 4. FOLLOW MH GAS PIPELINE WELDING PROCEDURE MHG-2 FOR ALL FIELD TIE-IN WELDS.
- 5. TEST PRESSURE: 8498 kPa (1214 psig)

	🛆	ZU13-FEB-28	ISSUED F	OR TENDER
REFERENCE DOCUMENTS:	NO.	DATE	TE REVISIONS	
SCALE: AS NOTED		<b>★</b> Manit	oba	GAS DISTRIBUTION
DRAWN: J.DUVAL	-DESIGN-		ESIGN-	
DATE: 2013-FEB-27	LOCATION DETAILS FOR		N DETAILS FOR	
NETWORK:	0" 0 4" 00 1 T D 0 1 D 0 1 T 1 4 1 1 T F D D			

LOCATION DETAILS FOR 3" & 4" CONTROL POINT VALVE FOR MORRIS 3" & 4" TP PIPELINES

DRAWING NO. SHT. 1-C2101-DB-92100-0001 0001

3" & 4" CONTROL POINT VALVE LOCATION DETAILS SCALE: 0'-1/4" - 1'-0"

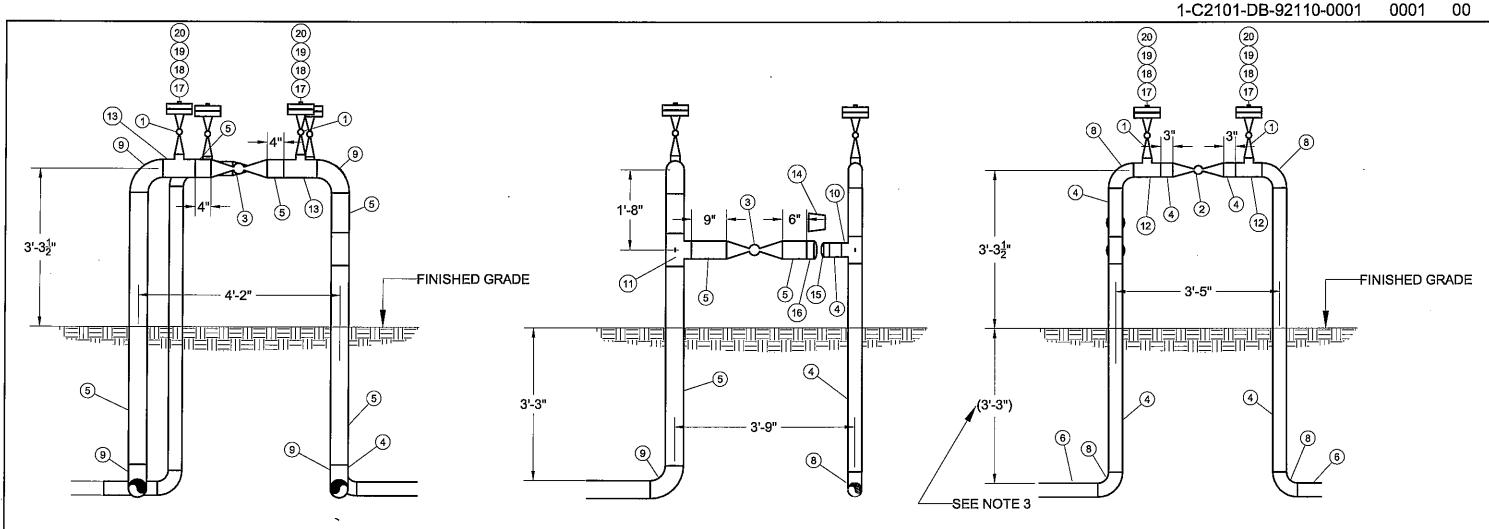
LEGEND:

EXISTING PROPOSED

IN MY OPINION, THE PLANS
AND SPECIFICATIONS SUBMITTED
ARE IN ACCORDANCE WITH
CSA Z662-11 GAS PIPELINE
SYSTEMS AND THE
CONSTRUCTION OF THE
FACILITIES PROPOSED HEREIN
WILL NOT ENDANGER THE
PUBLIC







**SECTION A-A** 

4" CONTROL POINT VALVE DETAILS SCALE: 0'-1/2" - 1'-0"

## **SECTION B-B**

4" INTERCONNECTION VALVE DETAILS SCALE: 0'-1/2" - 1'-0"

### **SECTION C-C**

3" CONTROL POINT VALVE DETAILS SCALE: 0'-1/2" - 1'-0"

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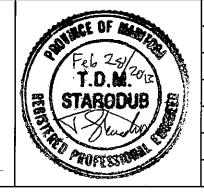
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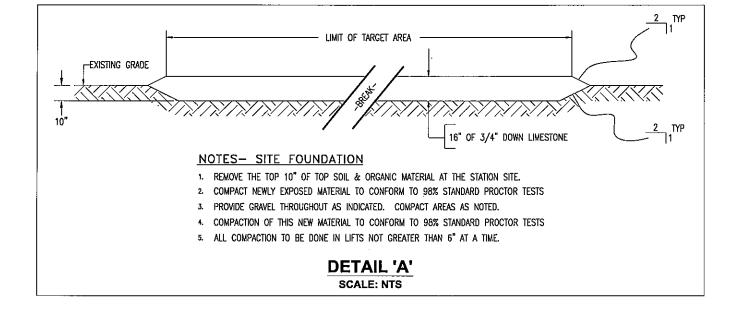
#### **NOTES:**

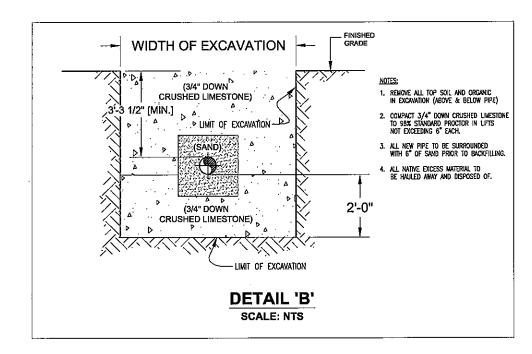
- CONTRACTOR SHALL LOCATE ALL UTILITIES AND PIPELINES PRIOR TO EXCAVATION.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO EXCAVATION.
- 3. APPROXIMATE DEPTH. CONTRACTOR TO VERIFY DEPTH PRIOR TO FABRICATION.

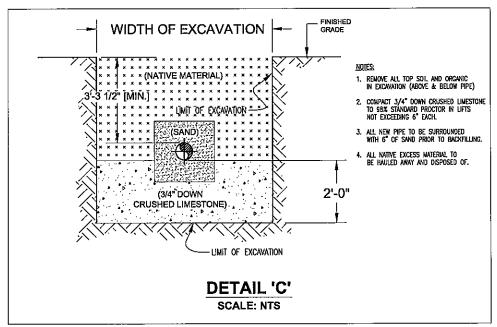
IN MY OPINION, THE PLANS AND SPECIFICATIONS SUBMITTED
ARE IN ACCORDANCE WITH CSA Z662-11 GAS PIPELINE SYSTEMS AND THE CONSTRUCTION OF THE FACILITIES PROPOSED HEREIN WILL NOT ENDANGER THE



	<u> </u>	2013-FEB-28	ISSUED FOR TENDER		
REFERENCE DOCUMENTS:	NO.	DATE	REVISIONS		
SCALE: AS NOTED		▲ Manit Hydro	oba GAS DIS	TRIBUTION	1
DRAWN: J.DUVAL			-DESIGN-		
DATE: 2013-FEB-27	FABRICATION DETAILS FOR				
NETWORK:	3" & 4" CONTROL POINT VALVE F				
CHECK: -			IS 3" & 4" TP PIP		
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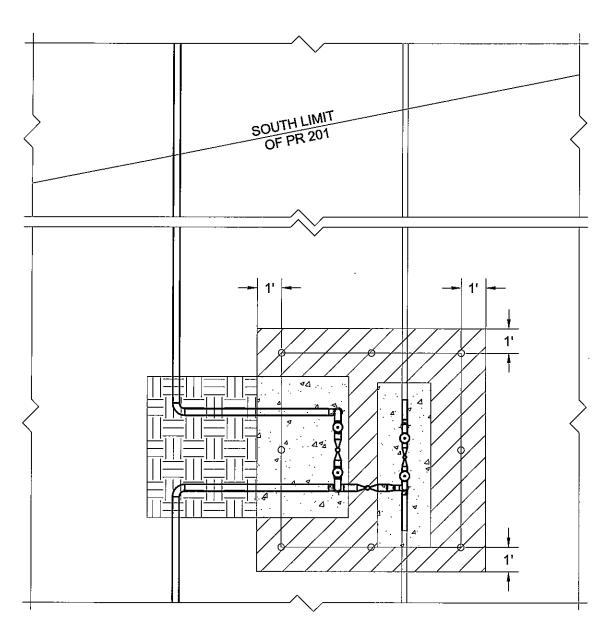


IN MY OPINION, THE PLANS AND SPECIFICATIONS SUBMITTED ARE IN ACCORDANCE WITH CSA Z662-11 GAS PIPELINE SYSTEMS AND THE CONSTRUCTION OF THE **FACILITIES PROPOSED HEREIN** WILL NOT ENDANGER THE PUBLIC.



		2013-FEB-28	ISSUED FOR TENDER		T.S.	
REFERENCE DOCUMENTS:	NO.	DATE	REVISION	S	APP.	
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DRAWN: J.DUVAL			-DESIGN-	1.00		ORIGINAL
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GIS GRID: 0088-0320	1	-C2101-DB-9	91121-0001	0002	00	





ZONE 1 - LIMIT OF AREA REQUIRING MATERIALS FOR SITE FOUNDATION CONSTRUCTION, SEE DETAIL 'A' ON SHEET 0002 FOR SPECIFICATION.



ZONE 2 - LIMIT OF AREA REQUIRING MATERIALS FOR BELOW GRADE PIPING COMPACTION W/ GRANULAR BACKFILL W/O INSULATION. SEE DETAIL 'B' ON SHEET 0002 FOR SPECIFICATION.



ZONE 3 - LIMIT OF AREA REQUIRING MATERIALS FOR BELOW GRADE PIPING COMPACTION W/ NATIVE BACKFILL W/O INSULATION. SEE DETAIL 'C' ON SHEET 0002 FOR SPECIFICATION.

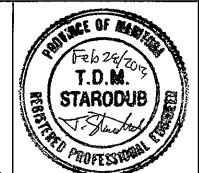
#### **EXCAVATION AND SITE FOUNDATION NOTES:**

- 1. REMOVE 10" OF TOP SOIL AND ORGANIC MATERIAL WITHIN AREAS COMPRISED OF ZONES 1, 2, & 3.
- 2. ZONE 1- FOLLOW SITE FOUNDATION CONSTRUCTION AND DRIVEWAY INSTRUCTIONS FOUND IN DETAIL 'A'.
- 3. ZONE 2 FOLLOW COMPACTION BELOW PIPE W/ GRANULAR BACKFILL INSTRUCTIONS FOUND IN DETAIL 'B'.
- 4. ZONE 3 FOLLOW COMPACTION BELOW PIPE W/ NATIVE BACKFILL INSTRUCTIONS FOUND IN DETAIL 'C'.
- 5. ALL FINISHED COMPACTED AREAS TO CONFORM TO 98% STANDARD PROCTOR TESTS.
- 6, ALL NEW VERTICAL PIPE RISERS TO BE ROCK WRAPPED ALONG BELOW GRADE PORTIONS PRIOR TO BACKFILLING.
- 7. ALL EXPOSED AND NEW PIPE TO BE SURROUNDED WITH 6" OF SAND PRIOR TO BACKFILLING.
- 8. BACKFILL MATERIAL TO BE FREE OF ORGANIC MATERIAL, LARGE ROCKS AND STONES.

#### **PLAN VIEW**

3" & 4" CONTROL POINT VALVE **LOCATION DETAILS** SCALE: 0'-1/4" - 1'-0"

> IN MY OPINION, THE PLANS AND SPECIFICATIONS SUBMITTED ARE IN ACCORDANCE WITH CSA Z662-11 GAS PIPELINE SYSTEMS AND THE CONSTRUCTION OF THE **FACILITIES PROPOSED HEREIN** WILL NOT ENDANGER THE



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	GIS GRID:	0088-0320	

Manitoba Hydro GAS DISTRIBUTION -DESIGN-EXCAVATION AND COMPACTION DETAILS FOR 3" & 4" CONTROL POINT VALVE FOR MORRIS 3" & 4" TP PIPELINES REV. 1-C2101-DB-91121-0001 0001 00

LEGEND:

**EXISTING PROPOSED**  | 2013-FCB-Z8 | ISSUED FOR TENDER

REVISIONS

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