

Plan Showing Survey of
TUNDRA PIERSON HZNTL 14-17-3-29
 Well Site
 Surface Location In
L.S.14D Sec.8 Twp.3 Rge.29 WPM
 To Bottom Hole In
L.S.14D Sec.17 Twp.3 Rge.29 WPM
 Municipality of Two Borders

COORDINATE TABLE

	LOCAL COORDINATES	GEOGRAPHIC COORDINATES (GPS DERIVED)		UTM COORDINATES (ZONE 14)	
		NAD 83		NAD 27	
SURFACE 14D-8	50.00 S of N 610.00 E of W } SEC. 8	LAT. = 49°12'25.459" LONG. = 101°21'38.096"	LAT. = 49°12'25.408" LONG. = 101°21'36.489"	5 453 157.56 N. 328 065.02 E.	5 452 936.06 N. 328 091.94 E.
LANDING POINT 3A-17	94.91 N of S 695.45 E of W } SEC. 17	LAT. = 49°12'31.136" LONG. = 101°21'33.877"	LAT. = 49°12'31.086" LONG. = 101°21'32.269"	5 453 330.18 N. 328 155.85 E.	5 453 108.69 N. 328 182.78 E.
BOTTOM HOLE 14D-17	94.91 S of N 692.80 E of W } SEC. 17	LAT. = 49°13'17.000" LONG. = 101°21'34.004"	LAT. = 49°13'16.952" LONG. = 101°21'32.394"	5 454 746.39 N. 328 197.45 E.	5 454 524.96 N. 328 224.43 E.

DRILL PATH INFORMATION

RECTANGULAR COORDINATES

SURFACE TO LANDING POINT	195.08 @ 25°57'35"	SURFACE 14D-8	0.00 NORTH 0.00 EAST
LANDING POINT TO BOTTOM HOLE	1416.97 @ 359°53'15"	LANDING POINT 3A-17	175.40 NORTH 85.40 EAST
		BOTTOM HOLE 14D-17	1592.37 NORTH 82.63 EAST

WELL CENTRE MOVEMENT

GIVEN	50.00 S of N 610.00 E of W	SEC. 8	SURVEYED	50.00 S of N 610.00 E of W	SEC. 8
W/C SURVEYED ON REQUESTED COORDINATES					

AREA INFORMATION

LANDOWNER INFORMATION

1/4	HECTARES	ACRES	LEGAL DESCRIPTION	TITLE NO.	LANDOWNER(S)
			N.W.1/4 SEC.8-3-29 WPM	1430910/2	DRIER FARMS LTD.
WELL SITE	NW8	1.440			
TOTAL		1.440			3.56

LICENCING INFORMATION

ELEVATION INFORMATION

The proposed well centre:	YES	NO
Is at least 45m from any surveyed road.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is at least 75m from any surface improvement.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is at least 100m from any water covered area.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is at least 200m from any occupied dwelling, public facility or urban centre.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Is at least 6.0 km from the centre of an aerodrome.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
DATUM: CGVD2013 / NAD83(CSRS) PRECISE POINT POSITIONING		
WELL CENTRE = 484.43		
CE 484		

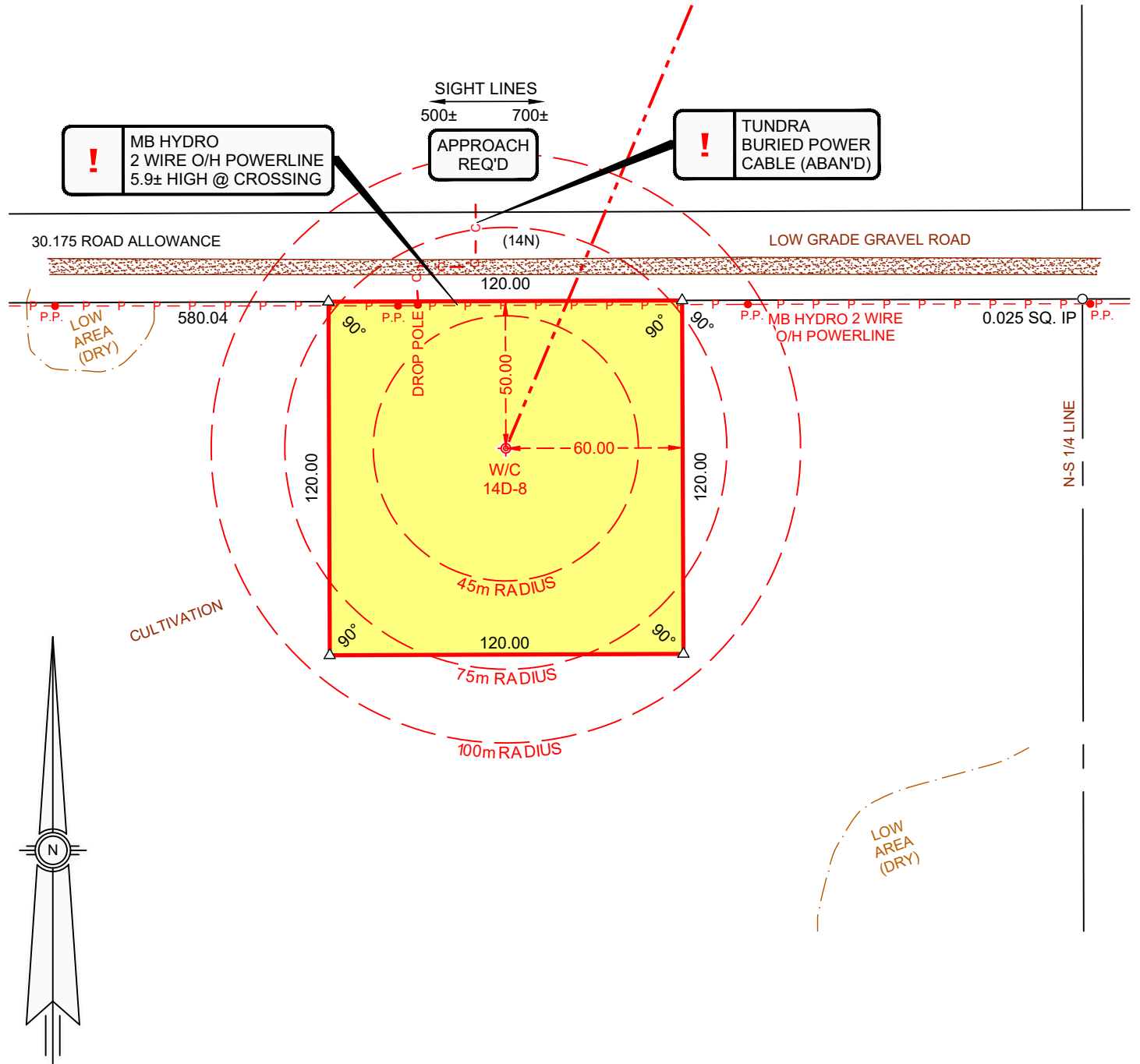
MANITOBA LAND SURVEYOR'S CERTIFICATION

OPERATOR INFORMATION

I certify that the survey represented by this plan is correct and true to the best of my knowledge and was completed on the 26th day of January, 2022.	 PERMIT Caltech Manitoba Land Surveying Inc. No. 2017-9			
This is a copy of an original plan, signed and sealed by Brendan L. Wood, Manitoba Land Surveyor, on February 18, 2022. The original plan is held on file in the office of Caltech Manitoba Land Surveying Inc. This copy has been prepared for distribution via electronic and other means. Should there be a discrepancy between this document and the original document, the signed, sealed original shall govern.				
 Brendan L. Wood Manitoba Land Surveyor				
REVISION TABLE				
REV.	DATE	DESCRIPTION	BY	CK'D
0	2022.02.18	ISSUED	KF	SK

WELL SITE DETAIL

SCALE: 1:2000



LEGEND

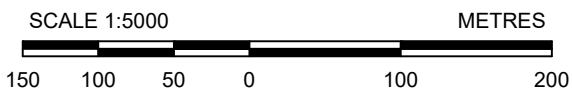
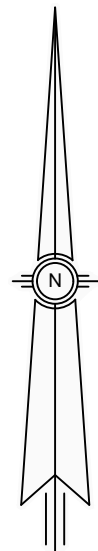
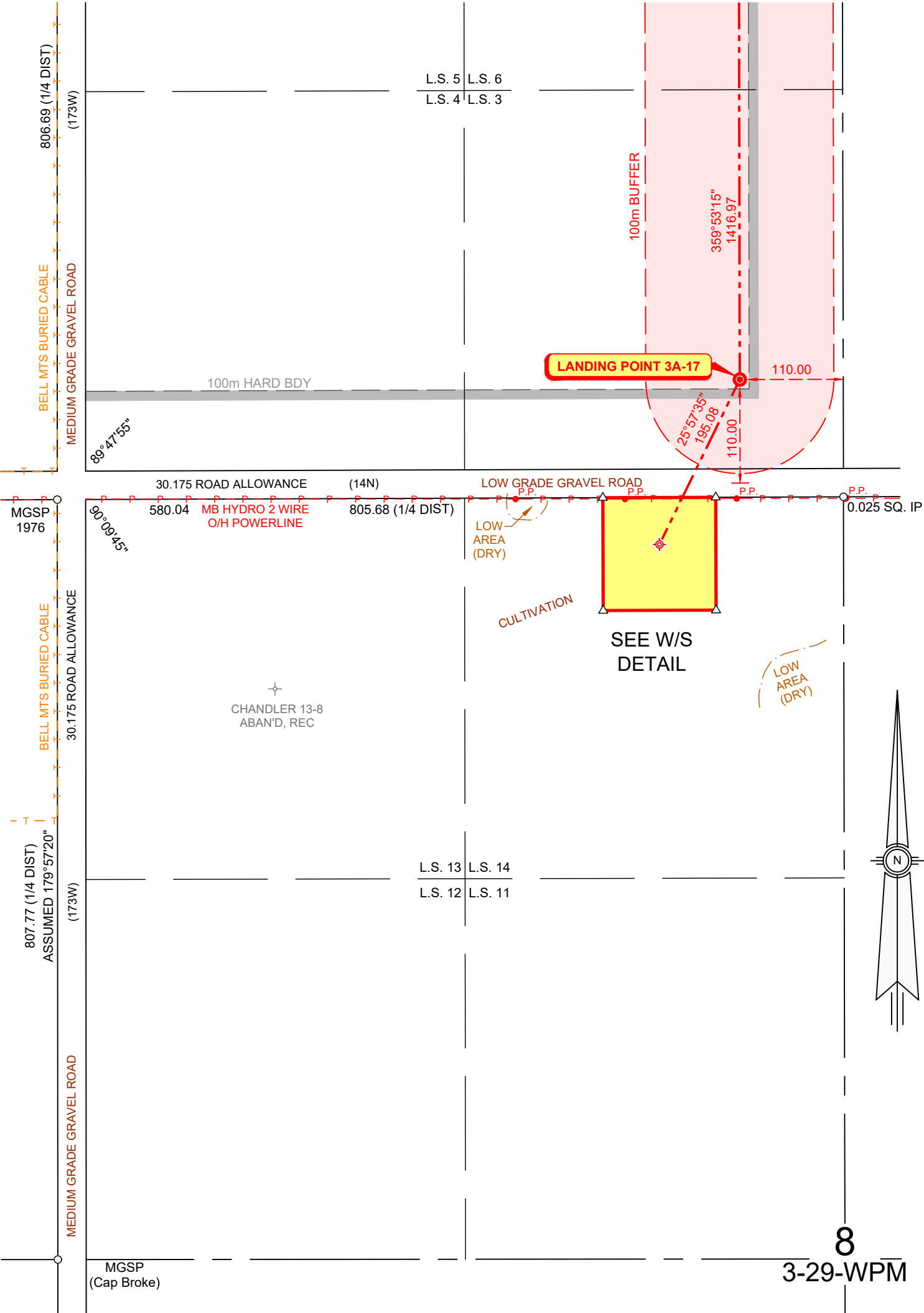
Proposed well centre shown thus	⊕
Proposed int casing, landing & target entry points shown thus	⊙
Proposed end horizontals & bottom holes shown thus	⊖
Proposed drilling location shown thus	⊗
Existing Wells shown thus	⊙
Existing int casing, landing & target entry points shown thus	⊖
Existing end hz / bottom holes shown thus	⊗
Abandoned wells shown thus	⊕
Legal survey monuments found shown thus	⊙
Legal survey monuments planted shown thus	■
Survey marks (0.013 Iron Bar) planted shown thus	△
Survey marks (Hubs) planted shown thus	□
Survey marks (0.013 Iron Bar) found shown thus	▲
Temporary points shown thus	⊗
New portions referred to shown thus	▭
Existing portions referred to shown thus	▭
Temporary workspaces shown thus	▭
Bearings shown are True North and are derived from GPS measurements.	
Local coordinates shown are perpendicular to the referenced boundary.	
Distances are in metres.	

BURIED FACILITIES INFORMATION

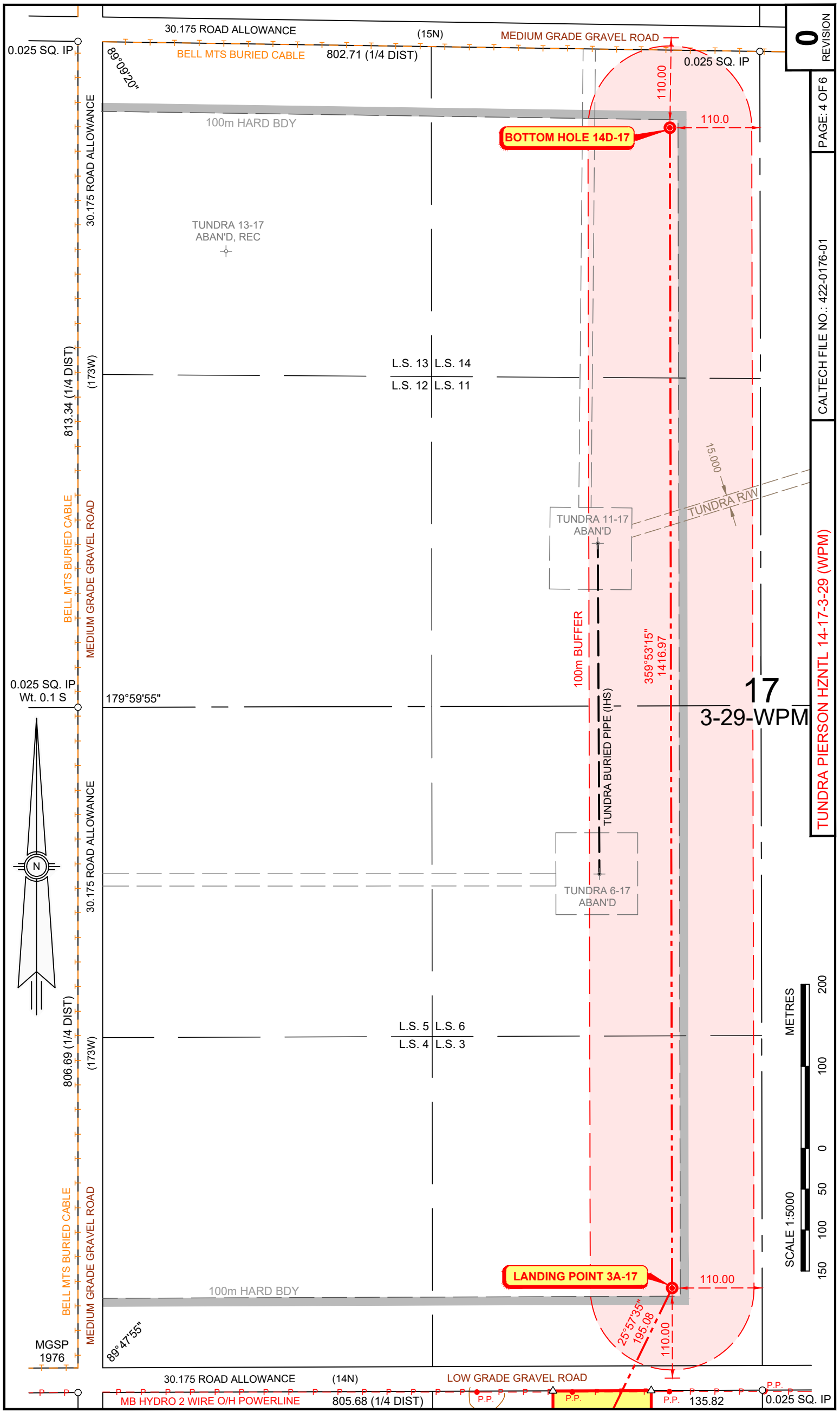
Due to the limitations of the electronic devices used to locate underground facilities, it should not be assumed that the locations and/or depths shown on this plan of survey are exact or that all underground facilities are shown. Caltech Surveys and any of its employees take no responsibility for the accuracy of the underground facilities shown and all underground facilities should be located by the respective authorities prior to construction.

Manitoba Hydro: 1-800-940-3447
 Bell MTS: 1-800-940-3447
 Flowlines: Individual Operator

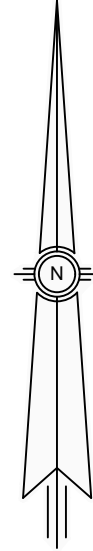
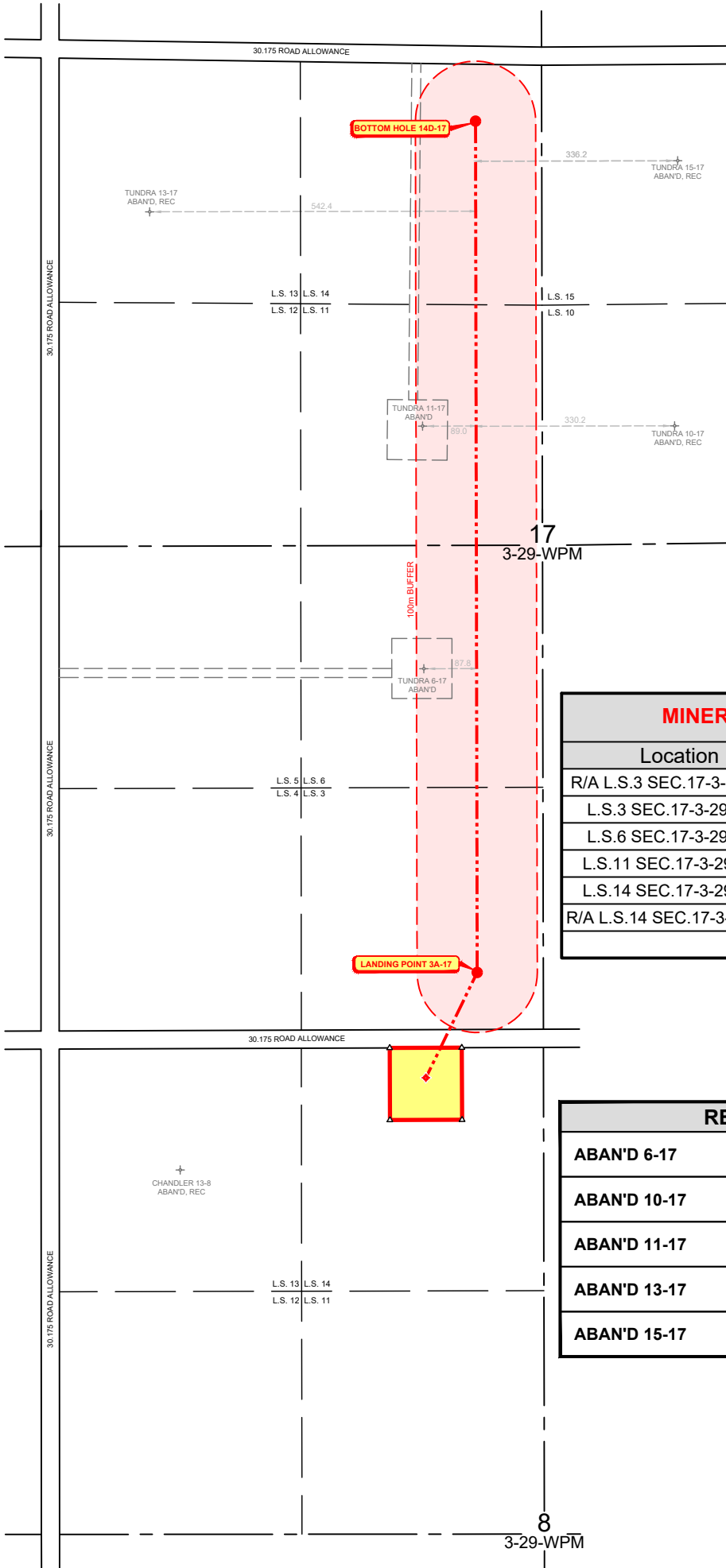
Municipality Contact Info.:
 Municipality of Two Borders
 Melita, MB
 Ph. (204) 522-3263



8
3-29-WPM



DRILL PATH BUFFER DETAIL



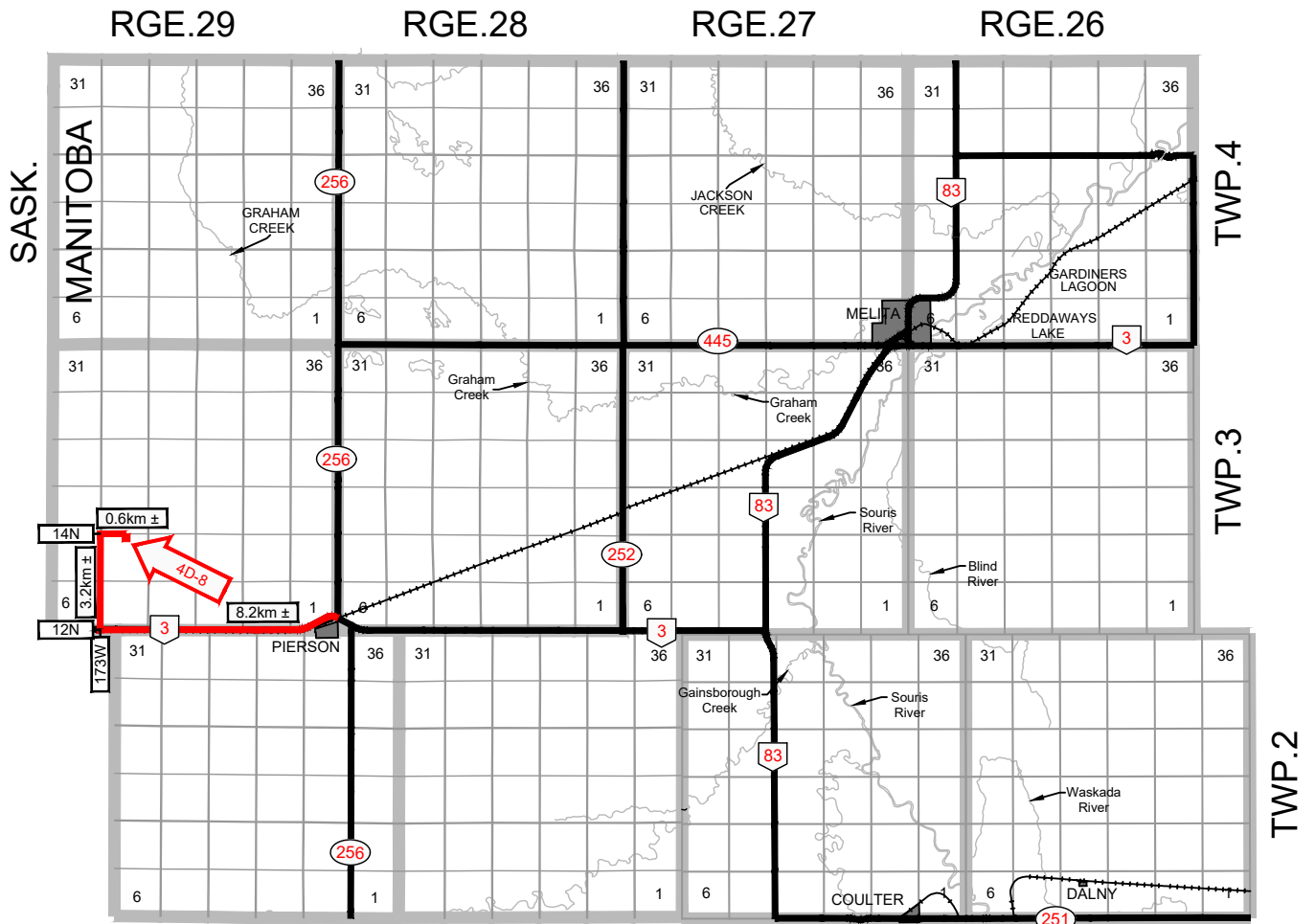
MINERAL ALLOCATION (100m BUFFER)				
Location	ha	ac	%	meters ²
R/A L.S.3 SEC.17-3-29 W1M	0.021	0.052	0.0682073	214.724
L.S.3 SEC.17-3-29 W1M	7.710	19.052	24.4920580	77103.639
L.S.6 SEC.17-3-29 W1M	8.059	19.914	25.6004343	80592.927
L.S.11 SEC.17-3-29 W1M	8.009	19.791	25.4400862	80088.134
L.S.14 SEC.17-3-29 W1M	7.660	18.928	24.3310069	76596.633
R/A L.S.14 SEC.17-3-29 W1M	0.021	0.052	0.0682073	214.724
TOTAL	31.480	77.789	100.0000000	314810.781

RECTANGULAR COORDINATES	
ABAN'D 6-17	681.02 NORTH 3.43 WEST
ABAN'D 10-17	1085.32 NORTH 413.80 EAST
ABAN'D 11-17	1084.87 NORTH 5.39 WEST
ABAN'D 13-17	1441.59 NORTH 459.51 WEST
ABAN'D 15-17	1526.54 NORTH 419.00 EAST



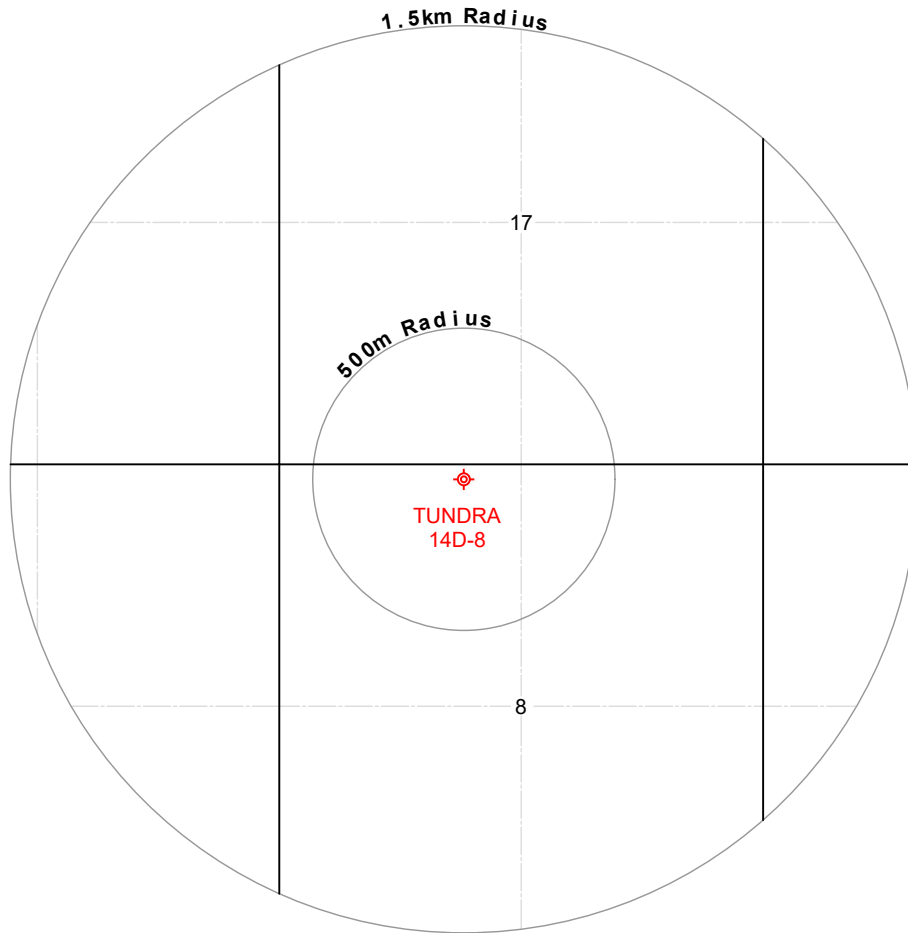
ACCESS ROUTE INFORMATION

SCALE: 1:250000



PUBLIC FACILITY & DWELLING SKETCH

SCALE: 1:25000



OCCUPIED DWELLINGS SHOWN THUS: ■
 UNOCCUPIED DWELLINGS SHOWN THUS: □
 PUBLIC FACILITIES SHOWN THUS: ▲
 THERE ARE NO OCCUPIED DWELLINGS WITHIN 1.5km OF WELL CENTRE
 NEAREST URBAN CENTRE IS GAINSBOROUGH 6.5km± S.W. OF WELL CENTRE

