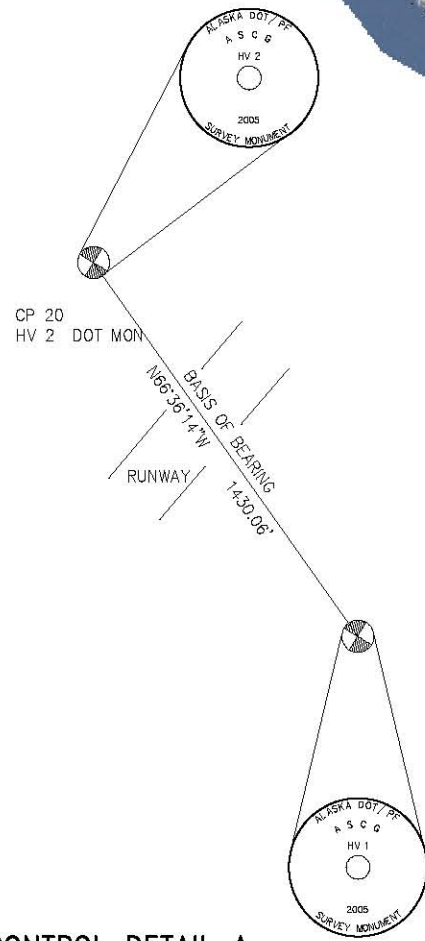




LEGEND

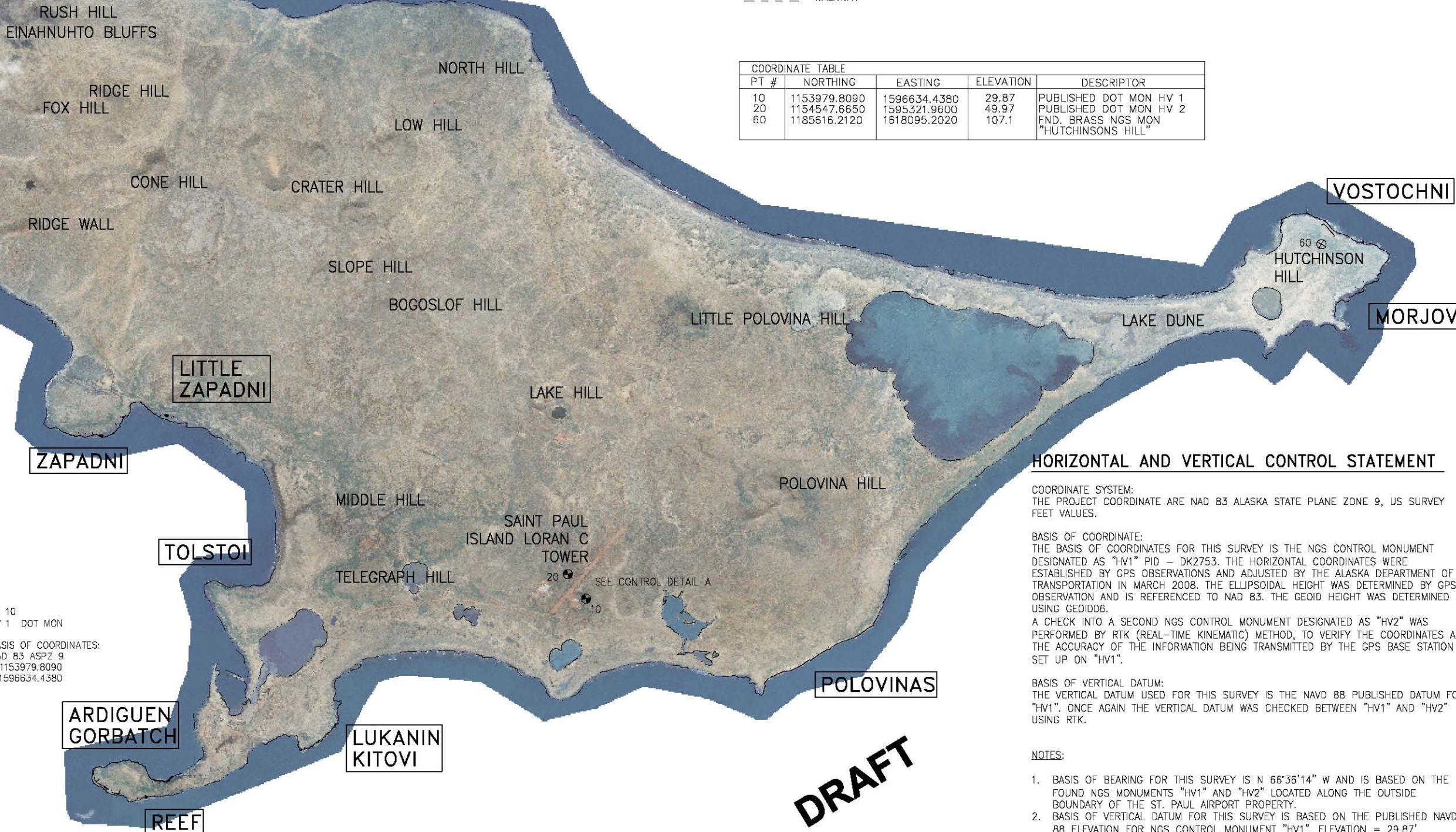
- FOUND MONUMENT DOT MON
- ⊕ FOUND MONUMENT NGS MON
- ⊙ GEOTECH BOREHOLE LOCATION
- △ OBSERVATION TOWER
- WALKWAY

COORDINATE TABLE				
PT #	NORTHING	EASTING	ELEVATION	DESCRIPTOR
10	1153979.8090	1596634.4380	29.87	PUBLISHED DOT MON HV 1
20	1154547.6650	1595321.9600	49.97	PUBLISHED DOT MON HV 2
60	1185616.2120	1618095.2020	107.1	FND. BRASS NGS MON "HUTCHINSONS HILL"



CP 10
HV 1 DOT MON
BASIS OF COORDINATES:
NAD 83 ASPZ 9
N: 1153979.8090
E: 1596634.4380

CONTROL DETAIL A
NTS



HORIZONTAL AND VERTICAL CONTROL STATEMENT

COORDINATE SYSTEM:
THE PROJECT COORDINATE ARE NAD 83 ALASKA STATE PLANE ZONE 9, US SURVEY FEET VALUES.

BASIS OF COORDINATE:
THE BASIS OF COORDINATES FOR THIS SURVEY IS THE NGS CONTROL MONUMENT DESIGNATED AS "HV1" PID - DK2753. THE HORIZONTAL COORDINATES WERE ESTABLISHED BY GPS OBSERVATIONS AND ADJUSTED BY THE ALASKA DEPARTMENT OF TRANSPORTATION IN MARCH 2008. THE ELLIPSOIDAL HEIGHT WAS DETERMINED BY GPS OBSERVATION AND IS REFERENCED TO NAD 83. THE GEOID HEIGHT WAS DETERMINED USING GEOD06.
A CHECK INTO A SECOND NGS CONTROL MONUMENT DESIGNATED AS "HV2" WAS PERFORMED BY RTK (REAL-TIME KINEMATIC) METHOD, TO VERIFY THE COORDINATES AND THE ACCURACY OF THE INFORMATION BEING TRANSMITTED BY THE GPS BASE STATION SET UP ON "HV1".

BASIS OF VERTICAL DATUM:
THE VERTICAL DATUM USED FOR THIS SURVEY IS THE NAVD 88 PUBLISHED DATUM FOR "HV1". ONCE AGAIN THE VERTICAL DATUM WAS CHECKED BETWEEN "HV1" AND "HV2" USING RTK.

NOTES:

1. BASIS OF BEARING FOR THIS SURVEY IS N 66°36'14" W AND IS BASED ON THE FOUND NGS MONUMENTS "HV1" AND "HV2" LOCATED ALONG THE OUTSIDE BOUNDARY OF THE ST. PAUL AIRPORT PROPERTY.
2. BASIS OF VERTICAL DATUM FOR THIS SURVEY IS BASED ON THE PUBLISHED NAVD 88 ELEVATION FOR NGS CONTROL MONUMENT "HV1". ELEVATION = 29.87'.
3. ALL SURVEY DATA WAS COLLECTED USING RTK METHOD.
4. THE FIELD SURVEY WAS PERFORMED DECEMBER 3 THRU 10, 2008.

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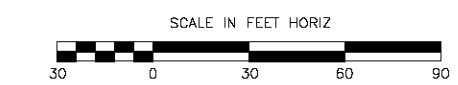
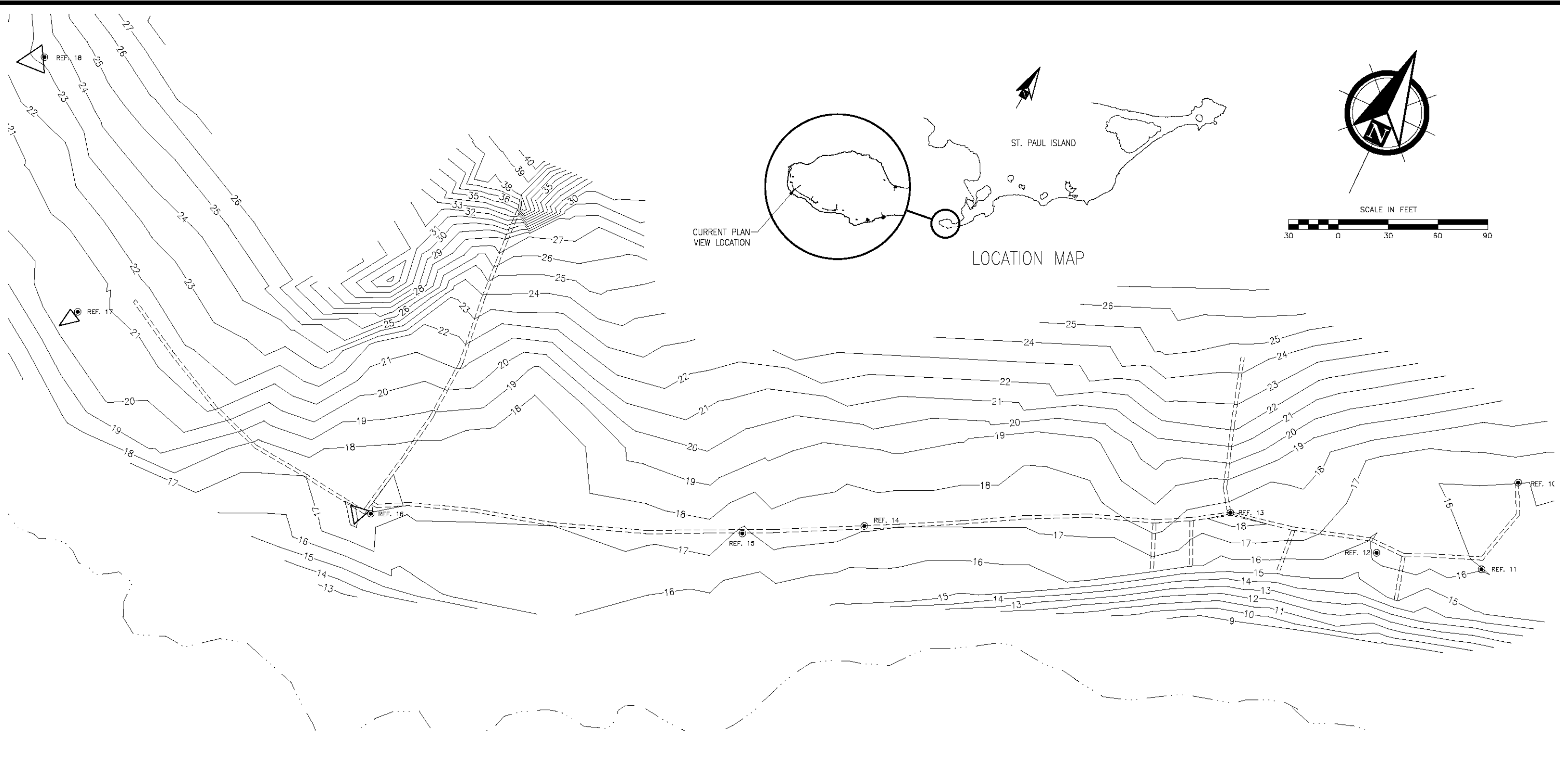


PROJECT: **REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND**

TITLE: **ROOKERY MAP**

DESIGNED BY:	MT	DATE:	FEBRUARY 2009
CHECKED BY:	CK	PROJECT NO.:	D71103

SHEET NO: **V-1** OF 23



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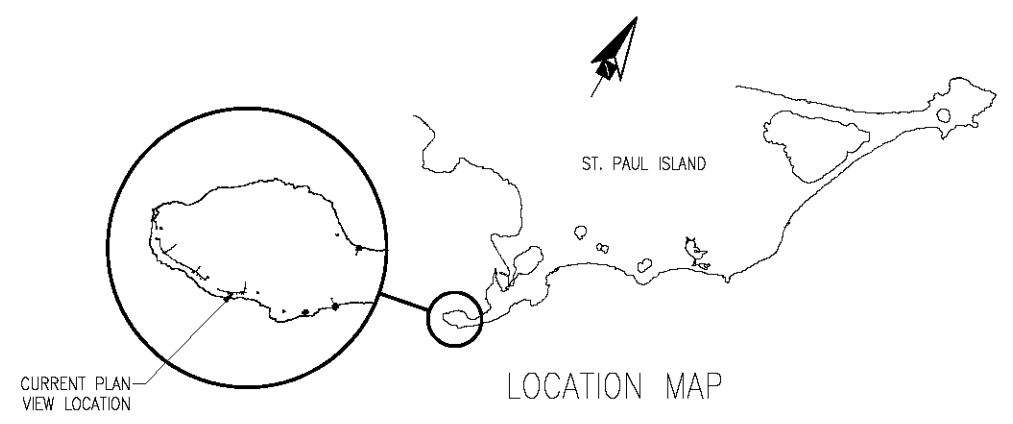
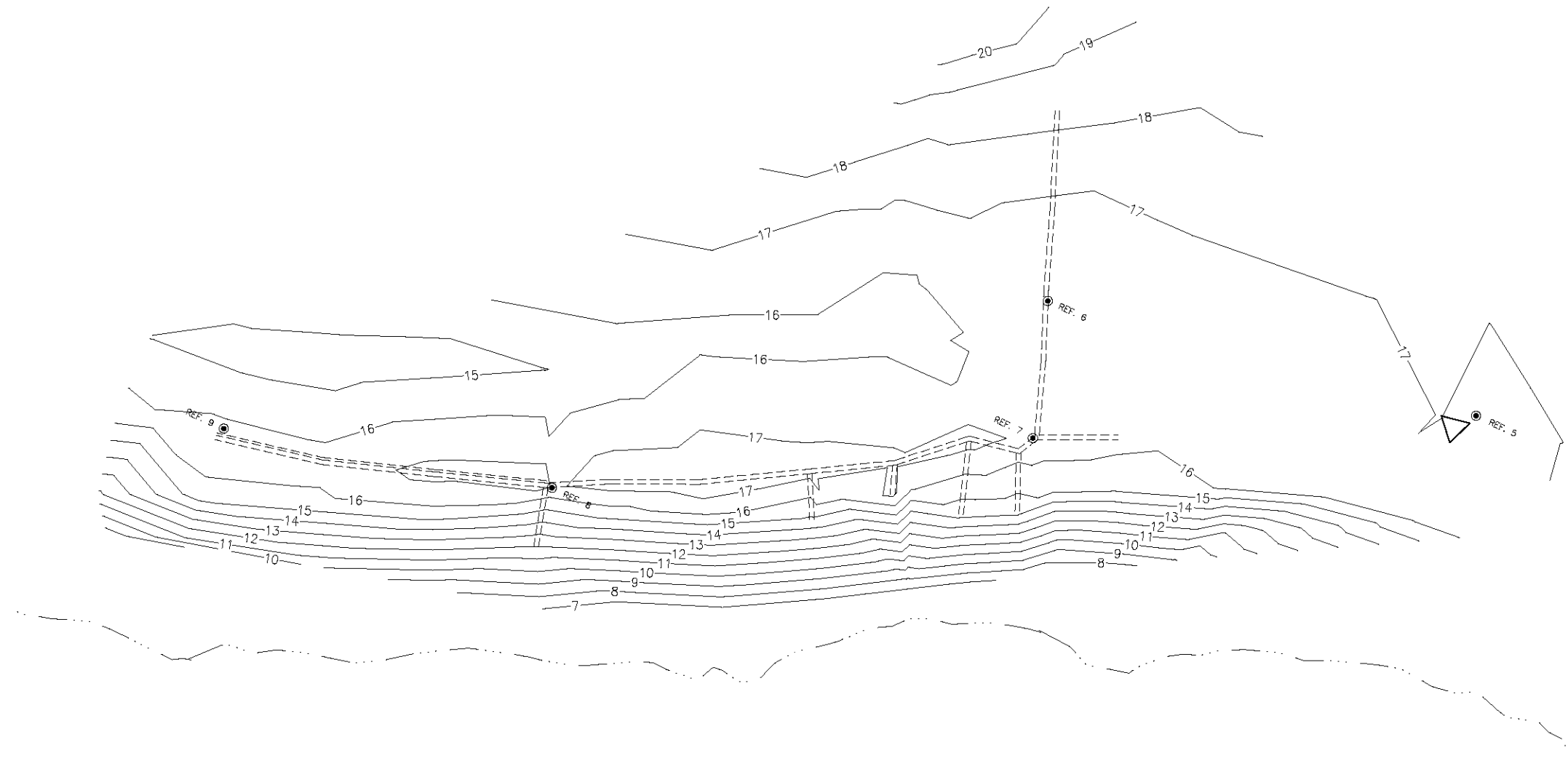
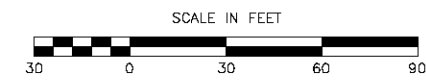
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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: REEF ROOKERY SECTIONS 2-5			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-2 OF 23	
CHECKED BY: CK	PROJECT NO: 071103		



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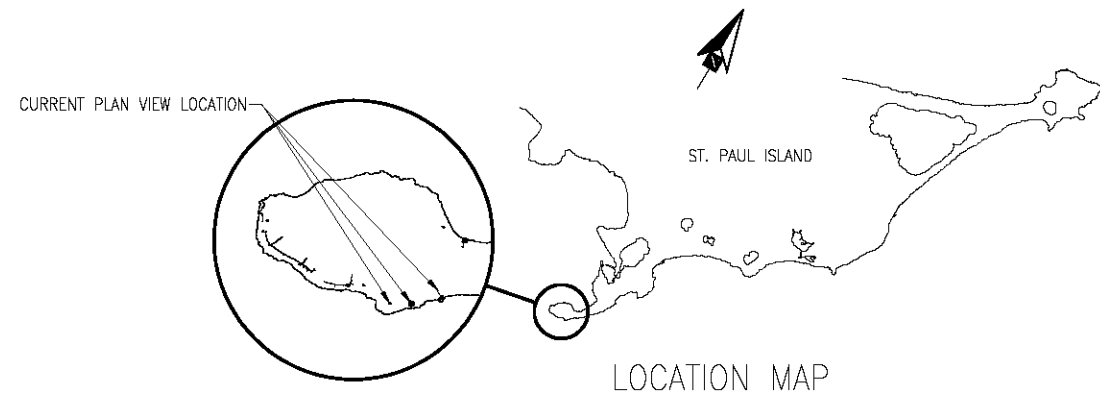
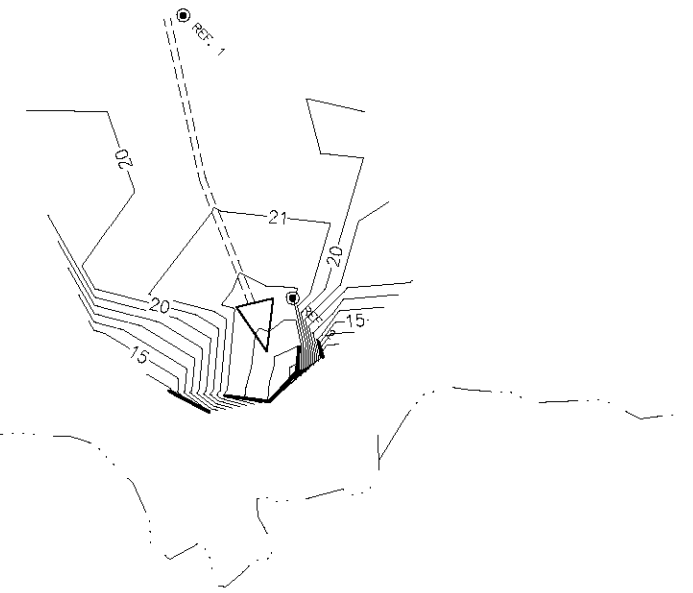
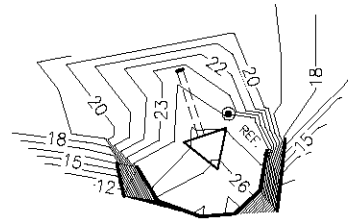
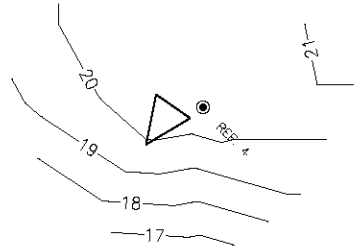
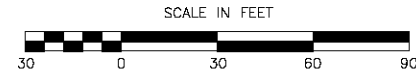
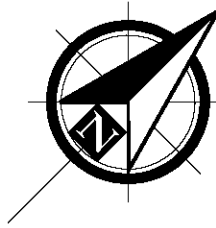
REV	DATE	DESCRIPTION

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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: REEF ROOKERY SECTION 6-7			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-3 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



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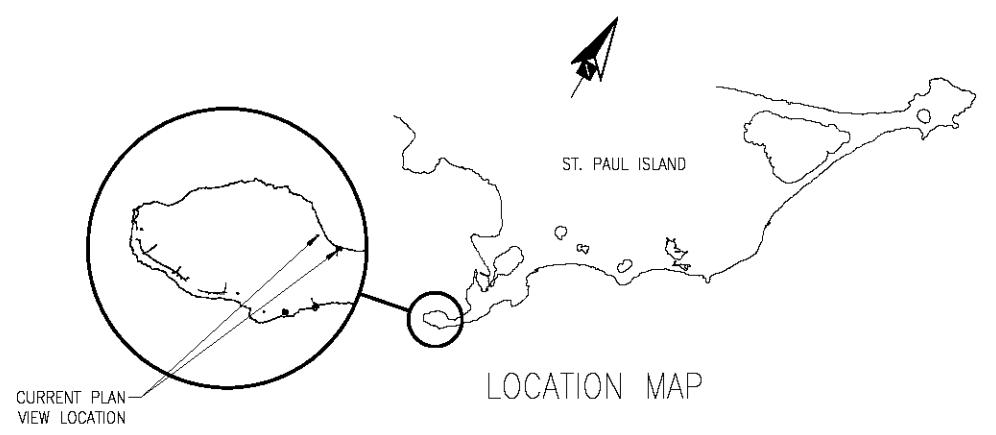
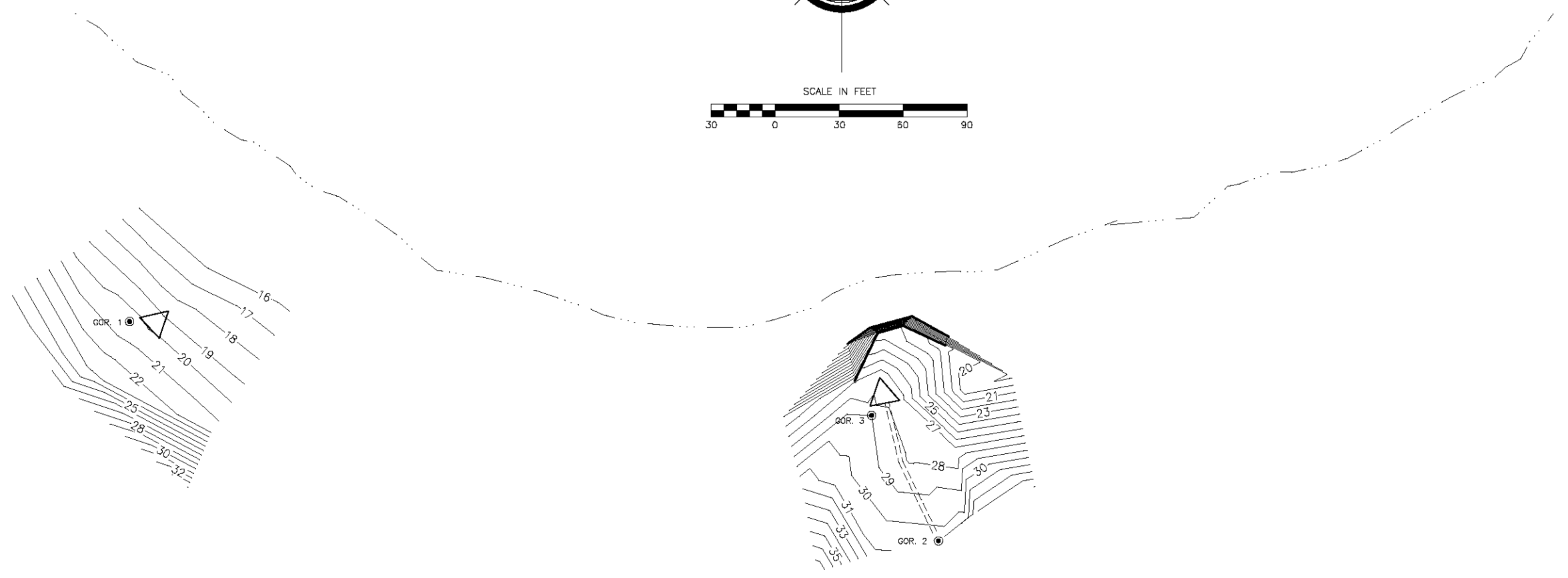
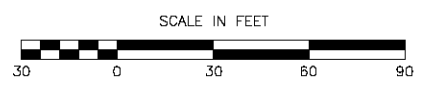
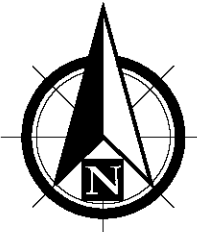


PROJECT: **REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND**

TITLE: **REEF ROOKERY SECTIONS 8-11**

DESIGNED BY: MT	DATE: FEBRUARY 2009
CHECKED BY: CK	PROJECT NO: D71103

SHEET NO: **V-4** OF 23



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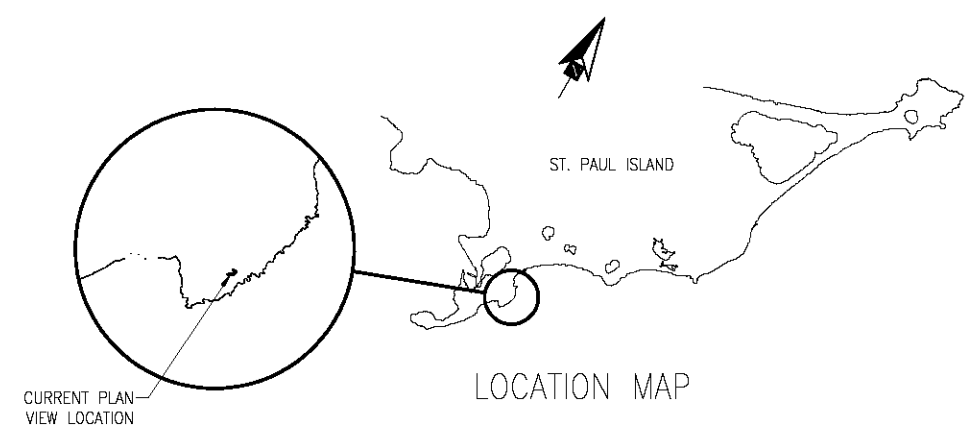
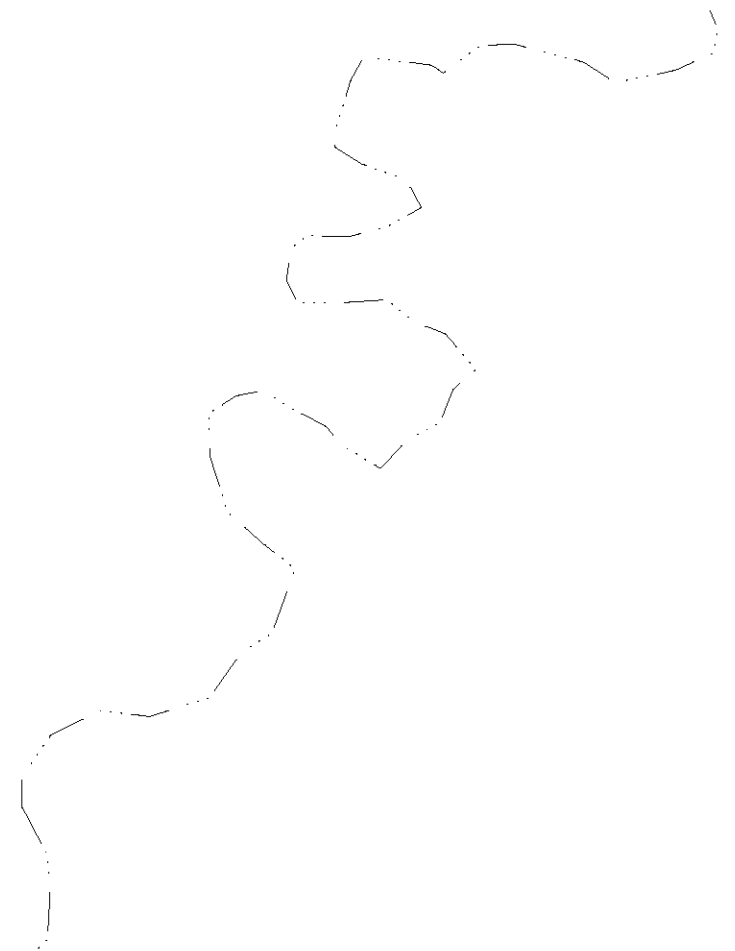
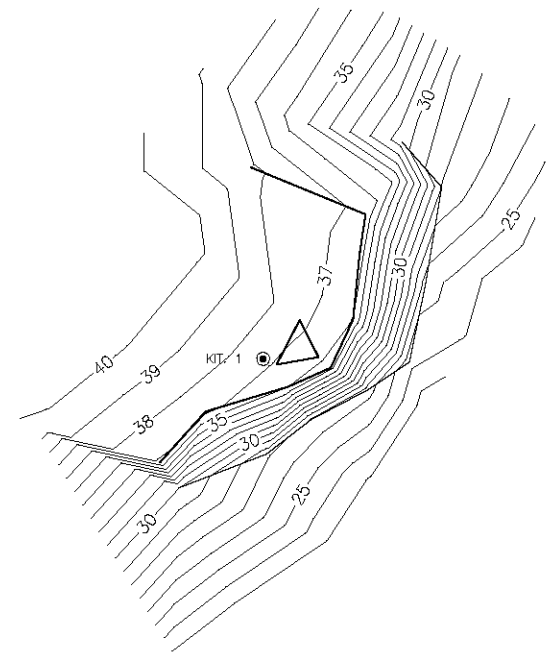
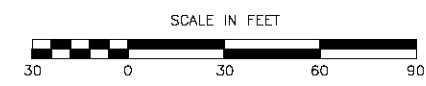
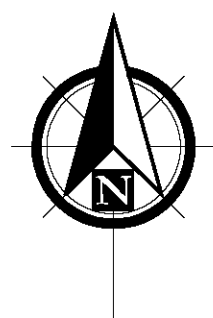
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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: ARDIGUEN ROOKERY			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-5 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



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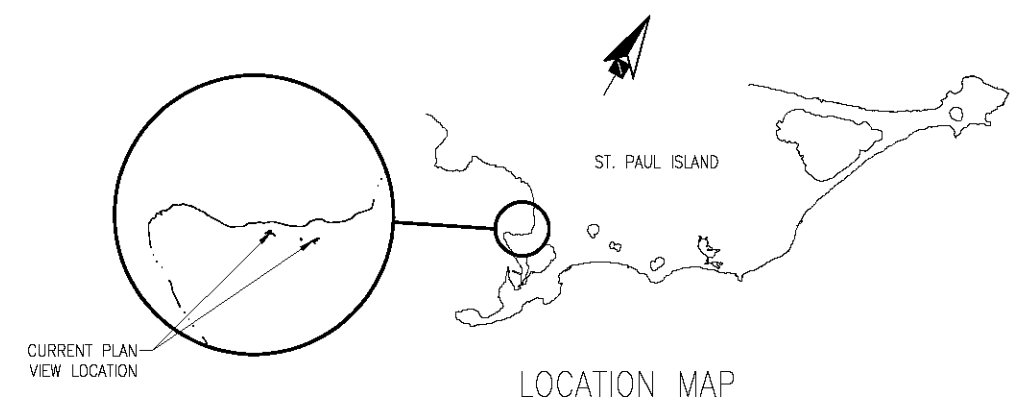
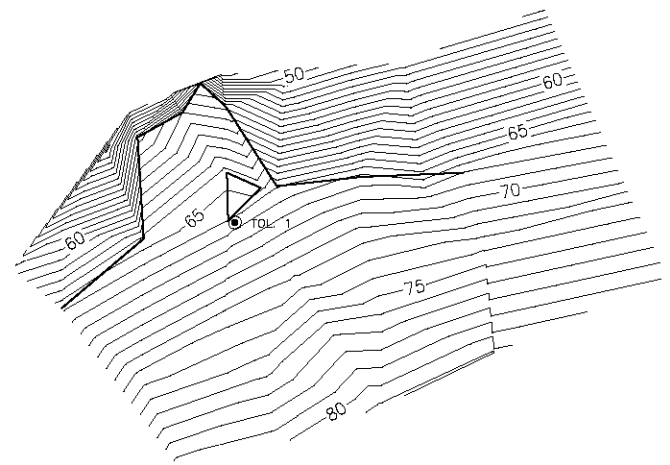
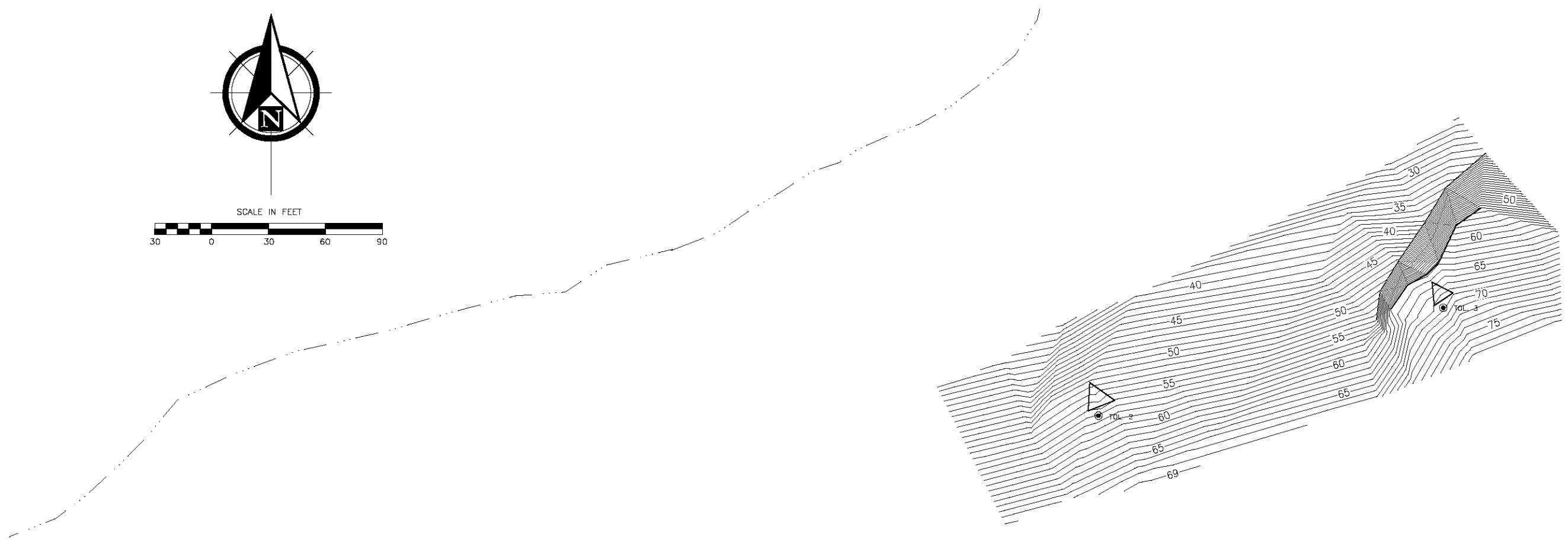
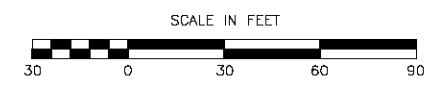
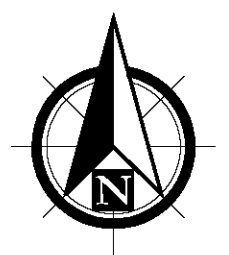
REV	DATE	DESCRIPTION

DATE: _____

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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: LUKANIN ROOKERY			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-6 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



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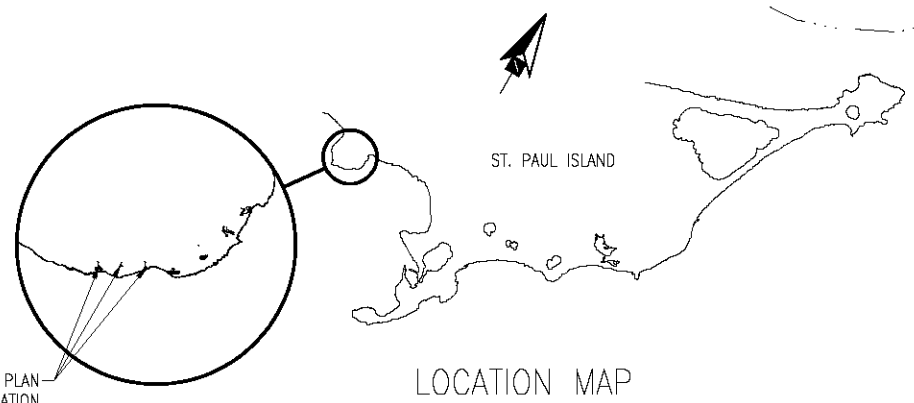
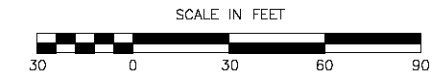
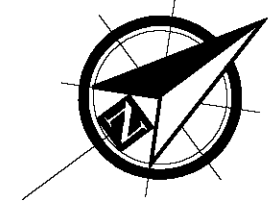
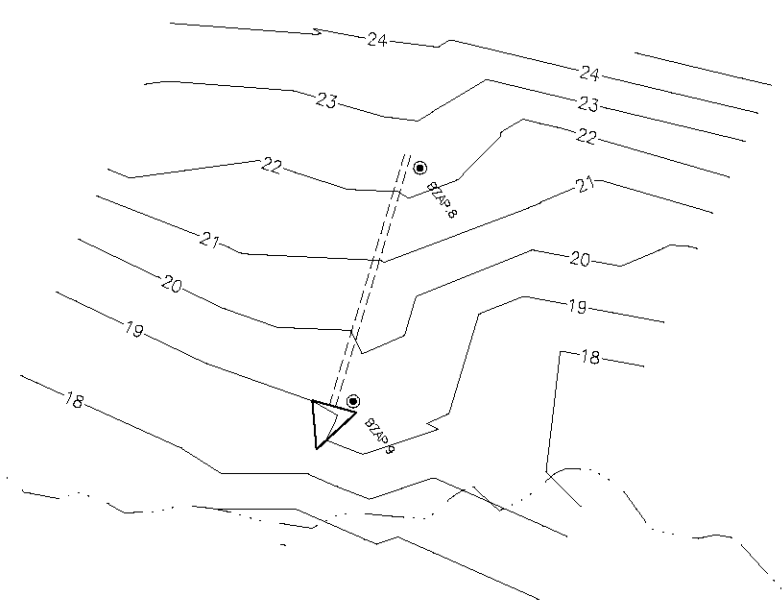
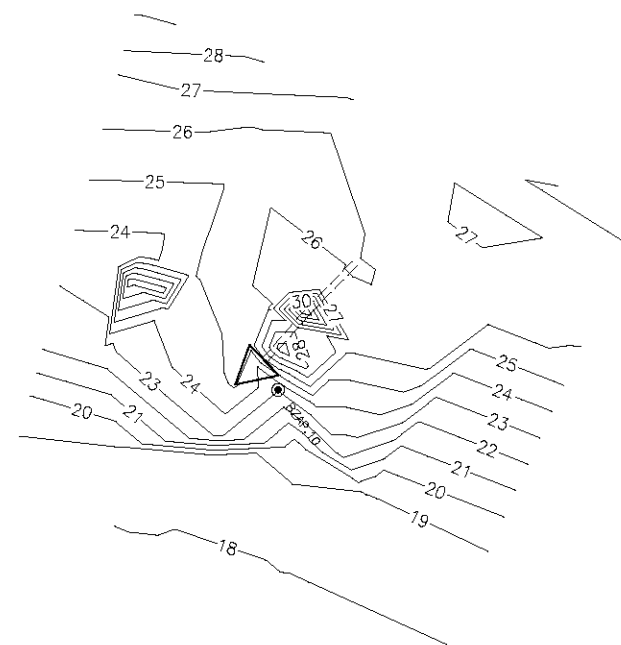
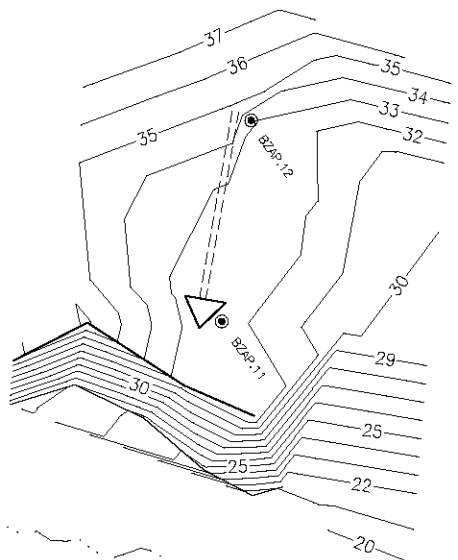
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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: TOLSTOI ROOKERY			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-7 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



CURRENT PLAN
VIEW LOCATION

LOCATION MAP

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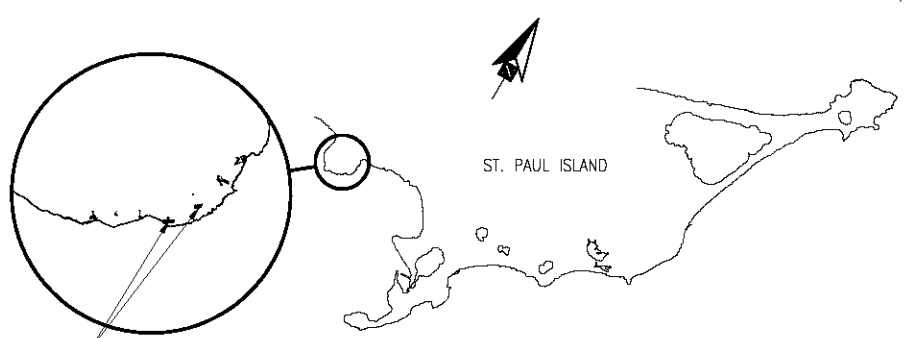
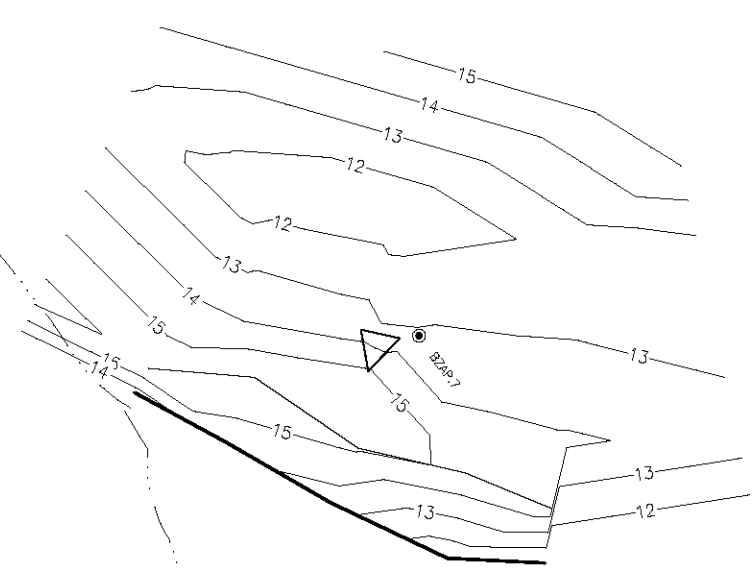
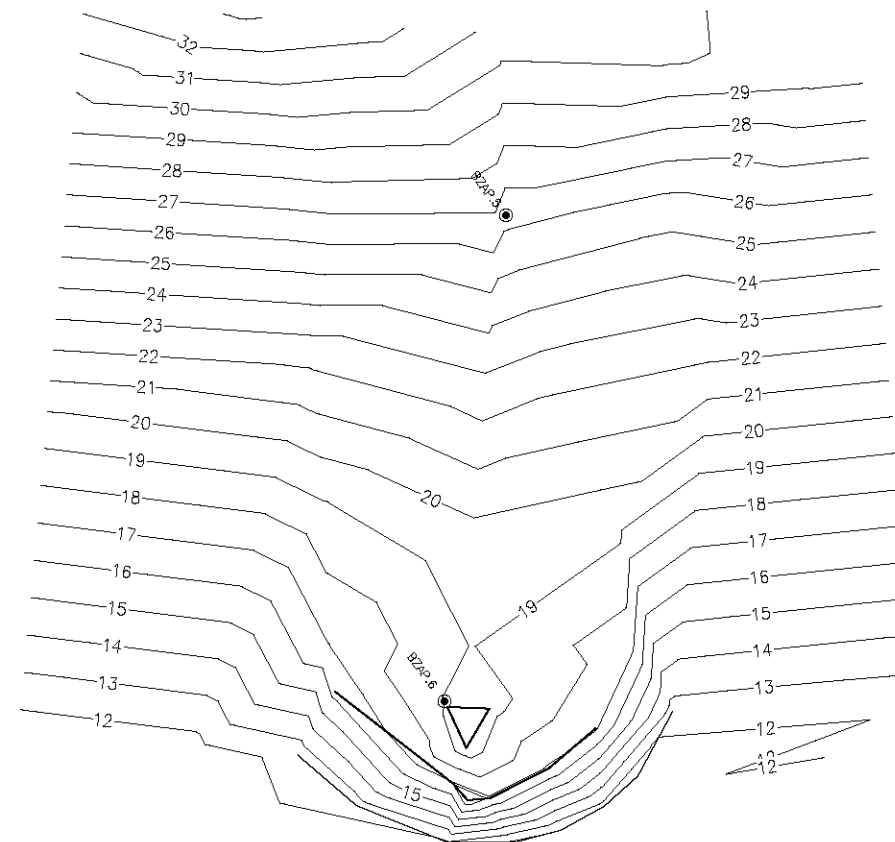
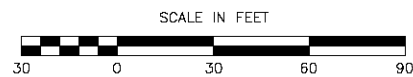
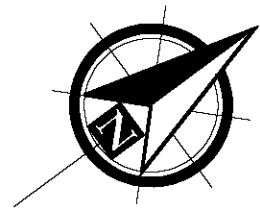
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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: ZAPADNI ROOKERY SECTIONS 1-3			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-8 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



LOCATION MAP

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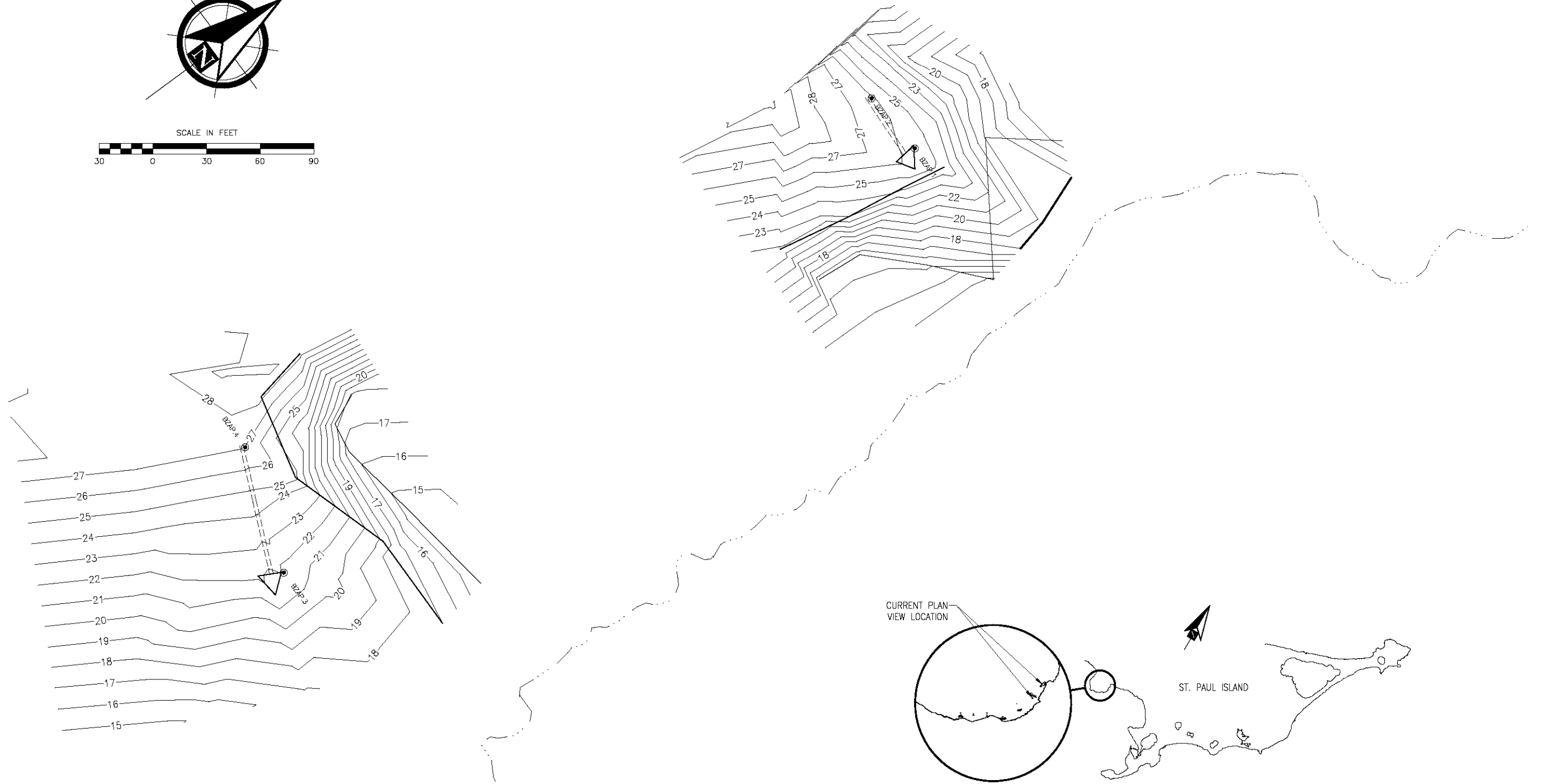
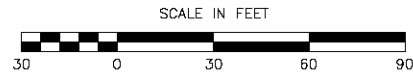
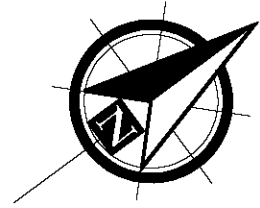
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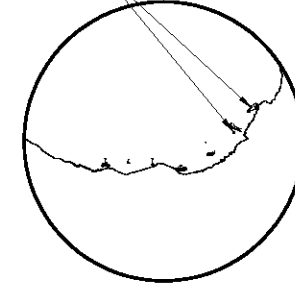
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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: ZAPADNI ROOKERY SECTIONS 4-6			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-9 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



CURRENT PLAN
VIEW LOCATION



ST. PAUL ISLAND

LOCATION MAP

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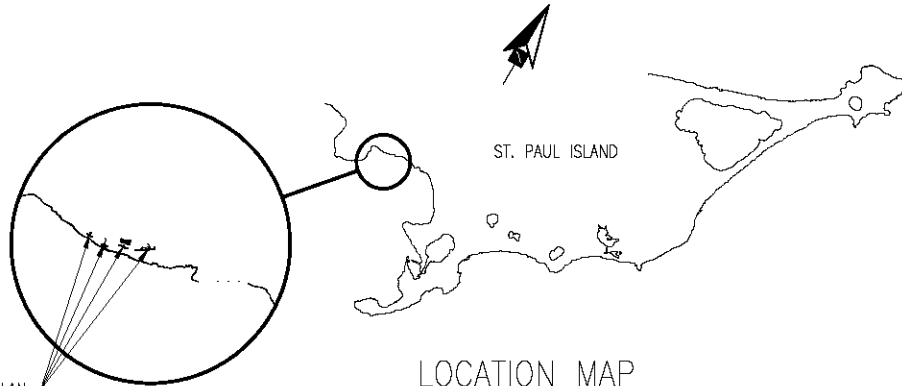
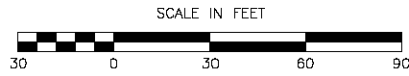
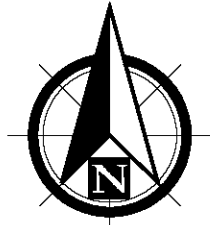


PROJECT: **REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND**

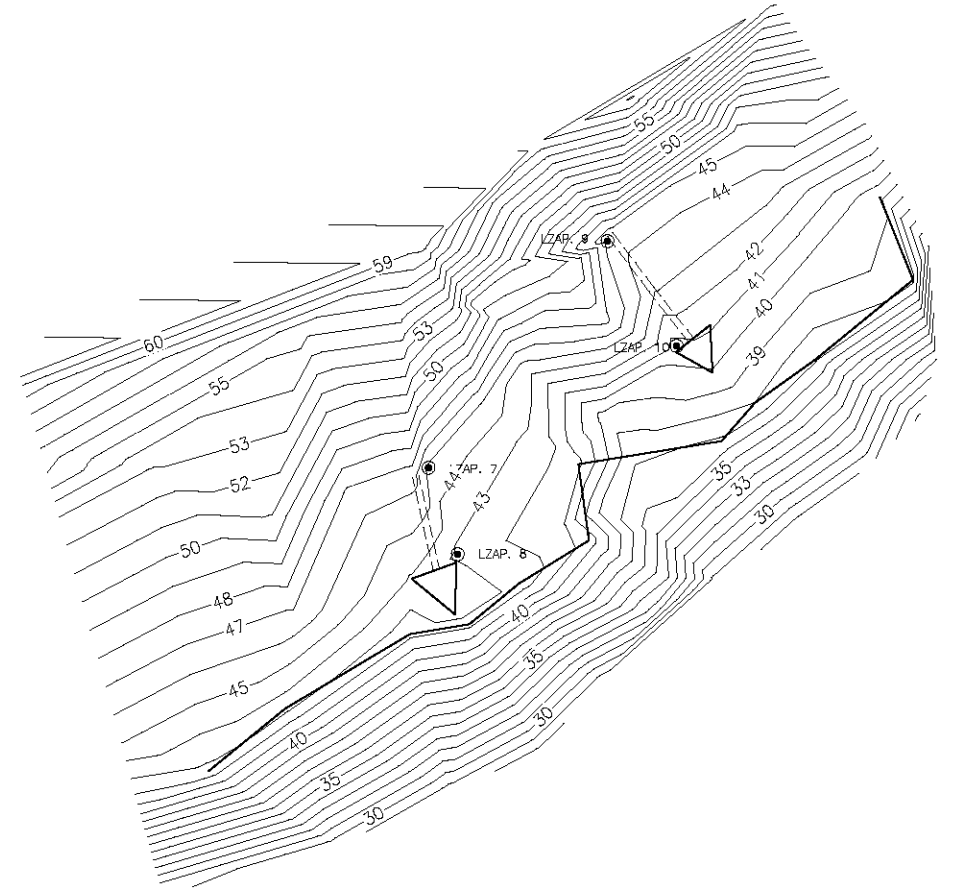
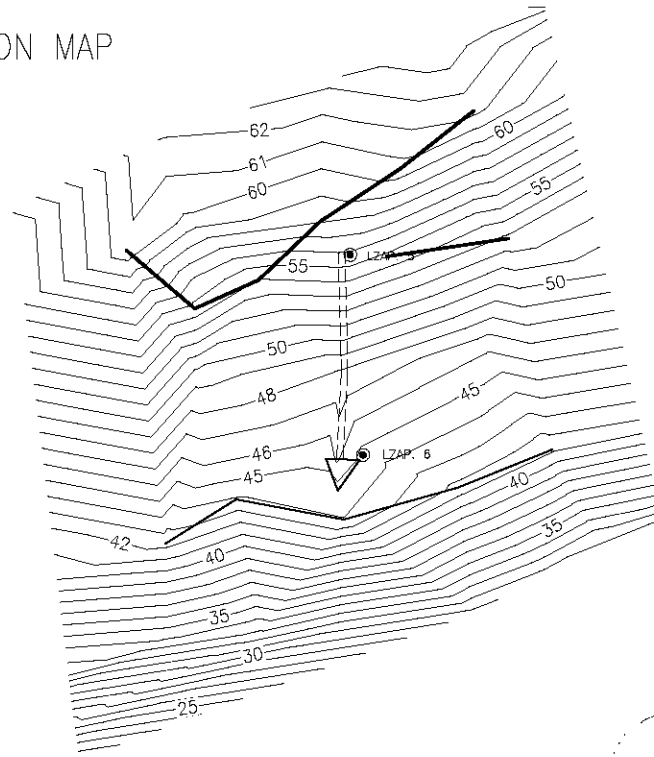
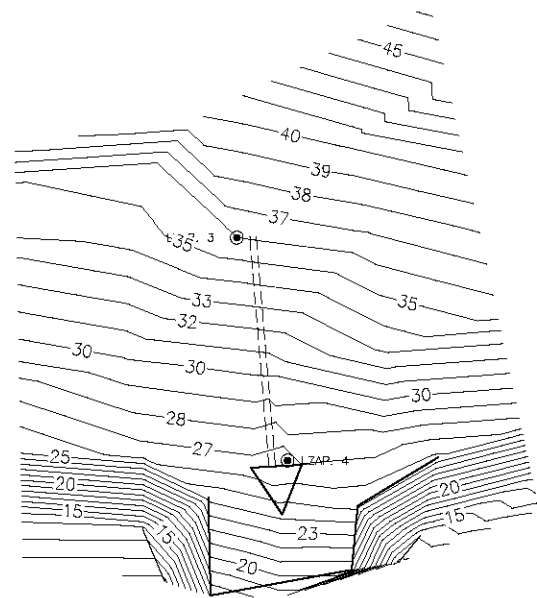
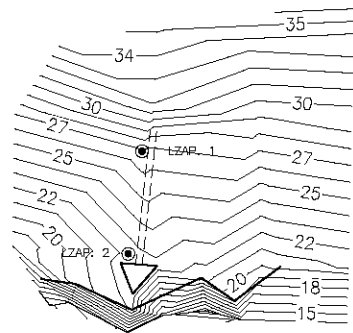
TITLE: **ZAPADNI ROOKERY SECTION 7-8**

DESIGNED BY: MT DATE: FEBRUARY 2009
CHECKED BY: CK PROJECT NO: D71103

SHEET NO: **V-10** OF 23



LOCATION MAP



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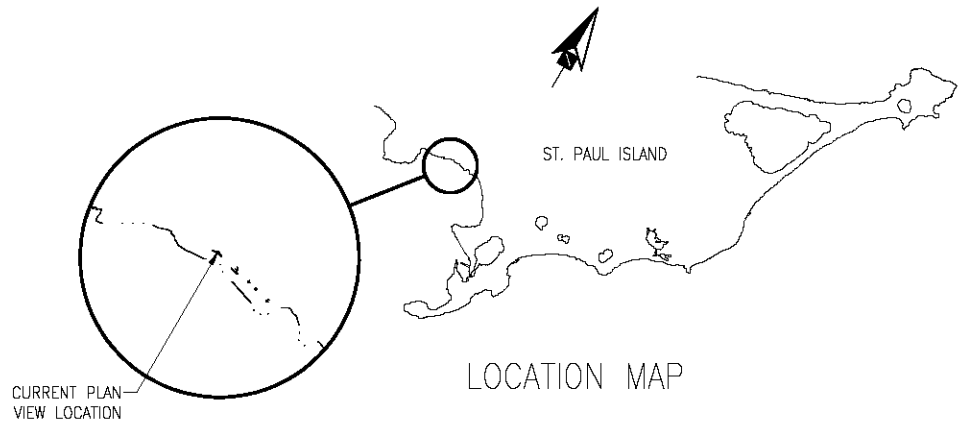
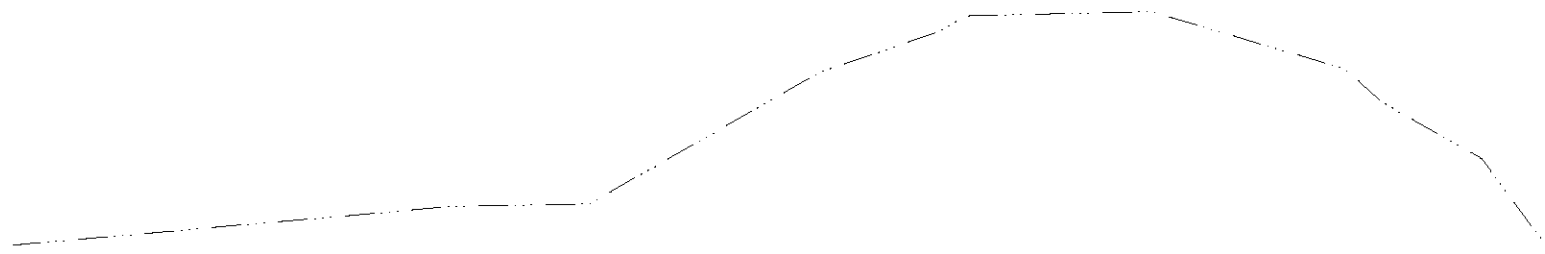
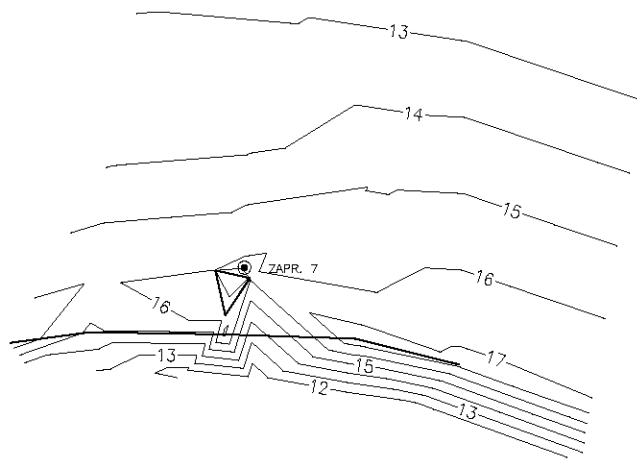
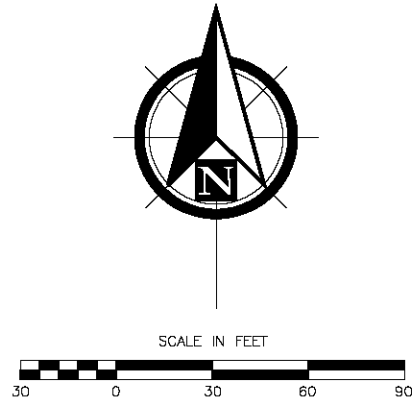
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DATE: _____

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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: LITTLE ZAPADNI ROOKERY SECTIONS 1-5			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-11 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



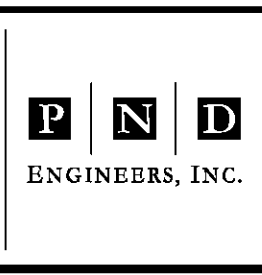
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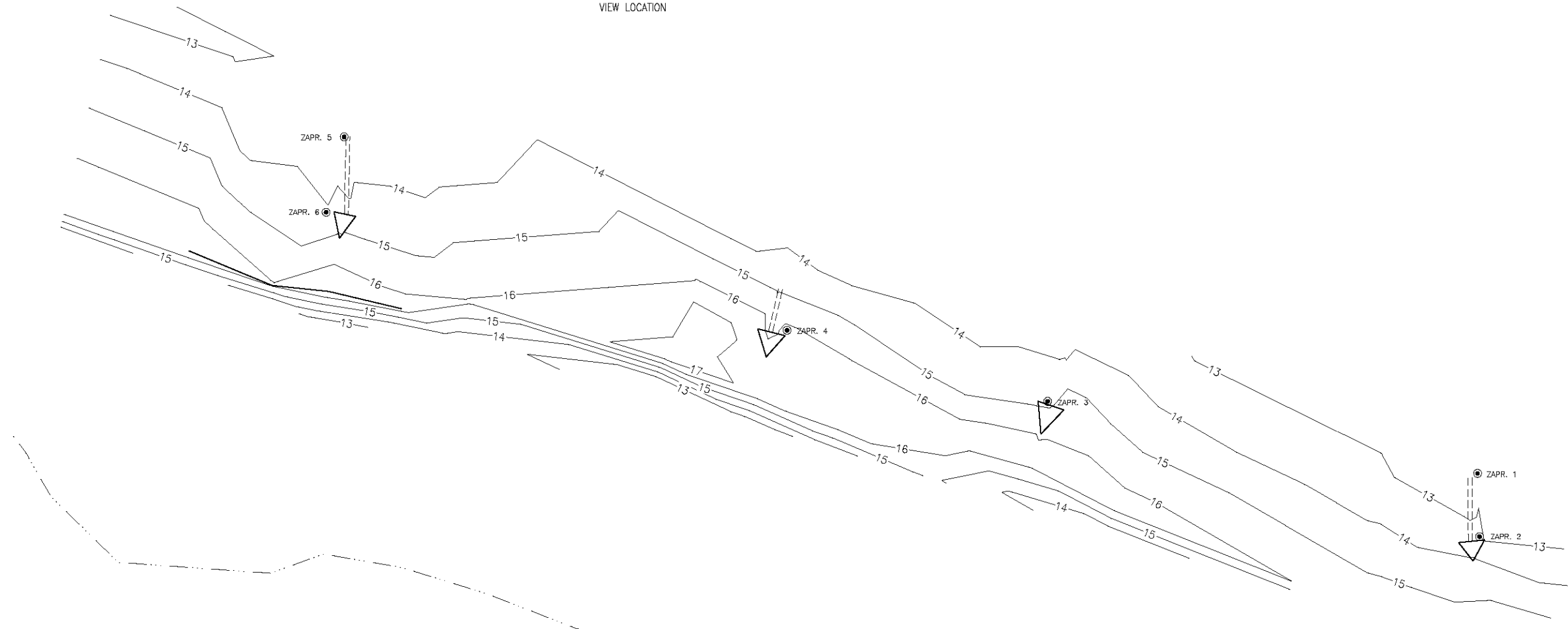
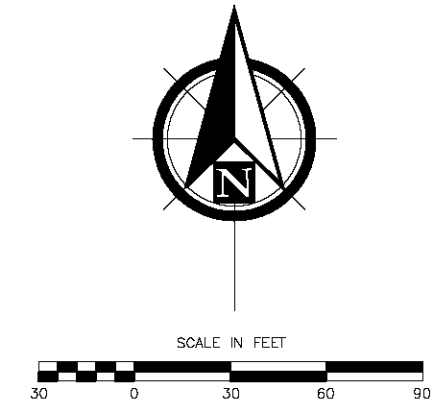
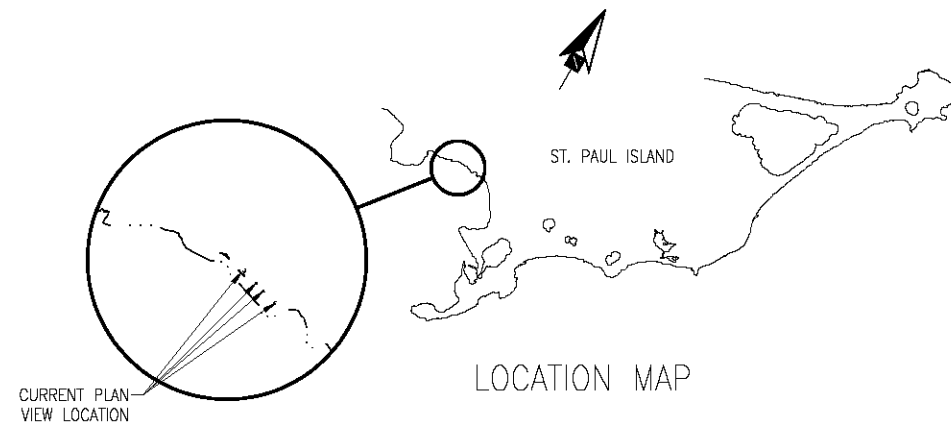
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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: LITTLE ZAPADNI ROOKERY SECTIONS 6			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-12 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



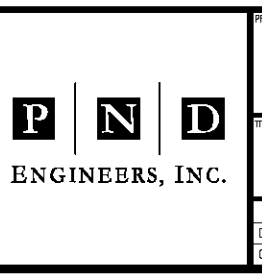
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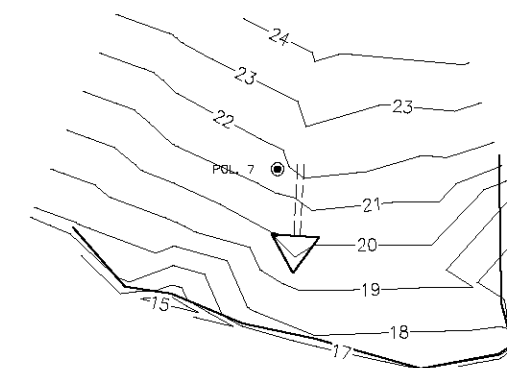
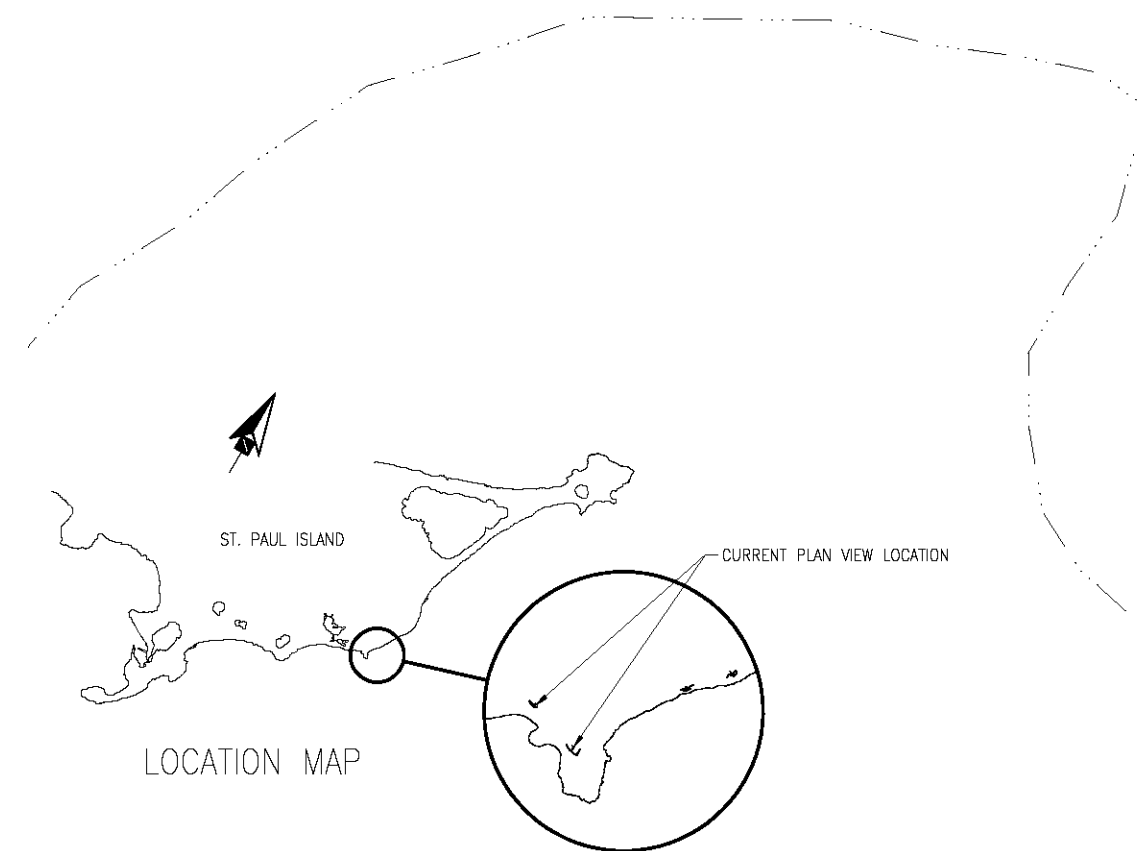
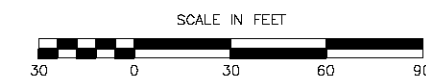
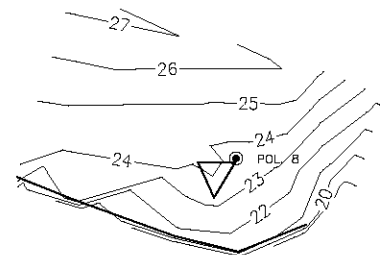
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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: LITTLE ZAPADNI ROOKERY SECTION 7			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-13 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



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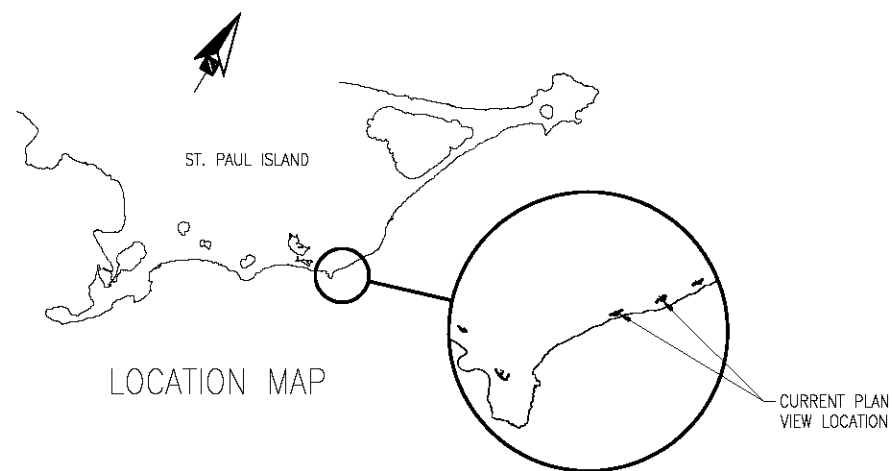
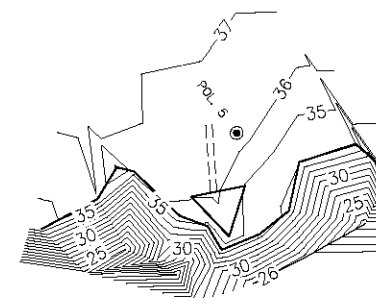
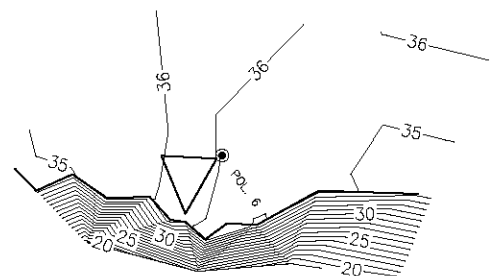
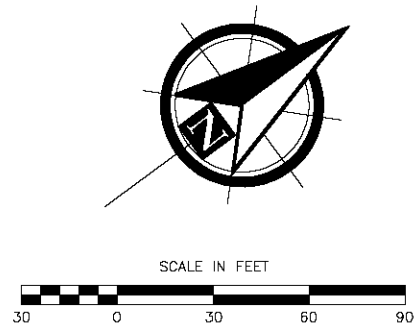
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REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: POLOVINAS ROOKERY SECTIONS 1-2			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-14 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



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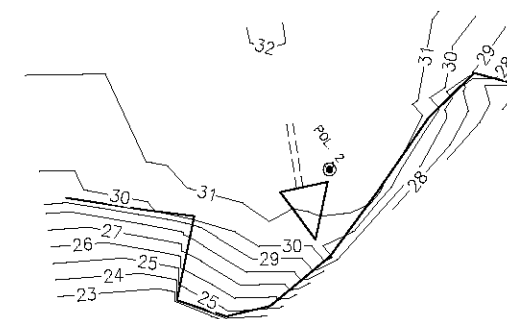
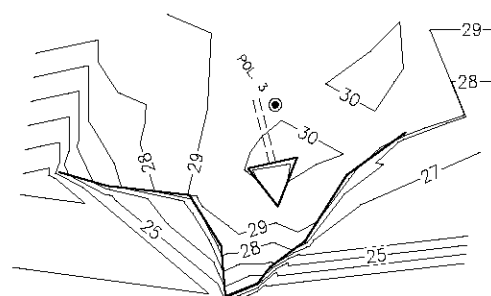
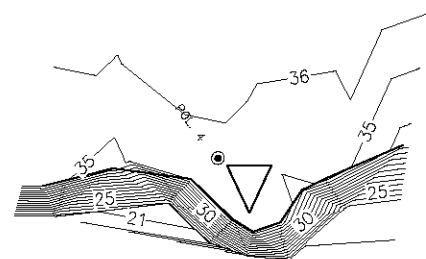
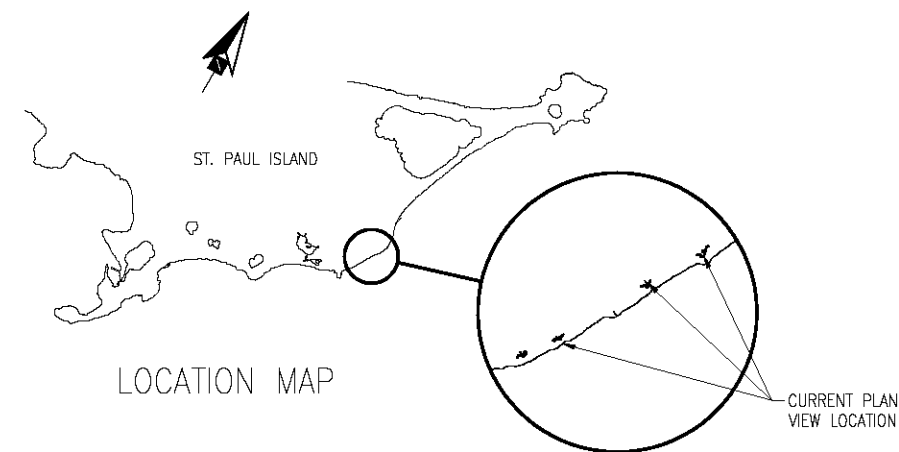
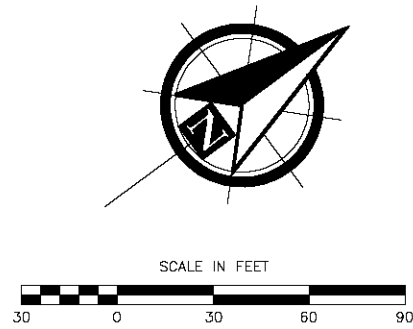
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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: POLOVINAS CLIFFS ROOKERY SECTIONS 1-2			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-15 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



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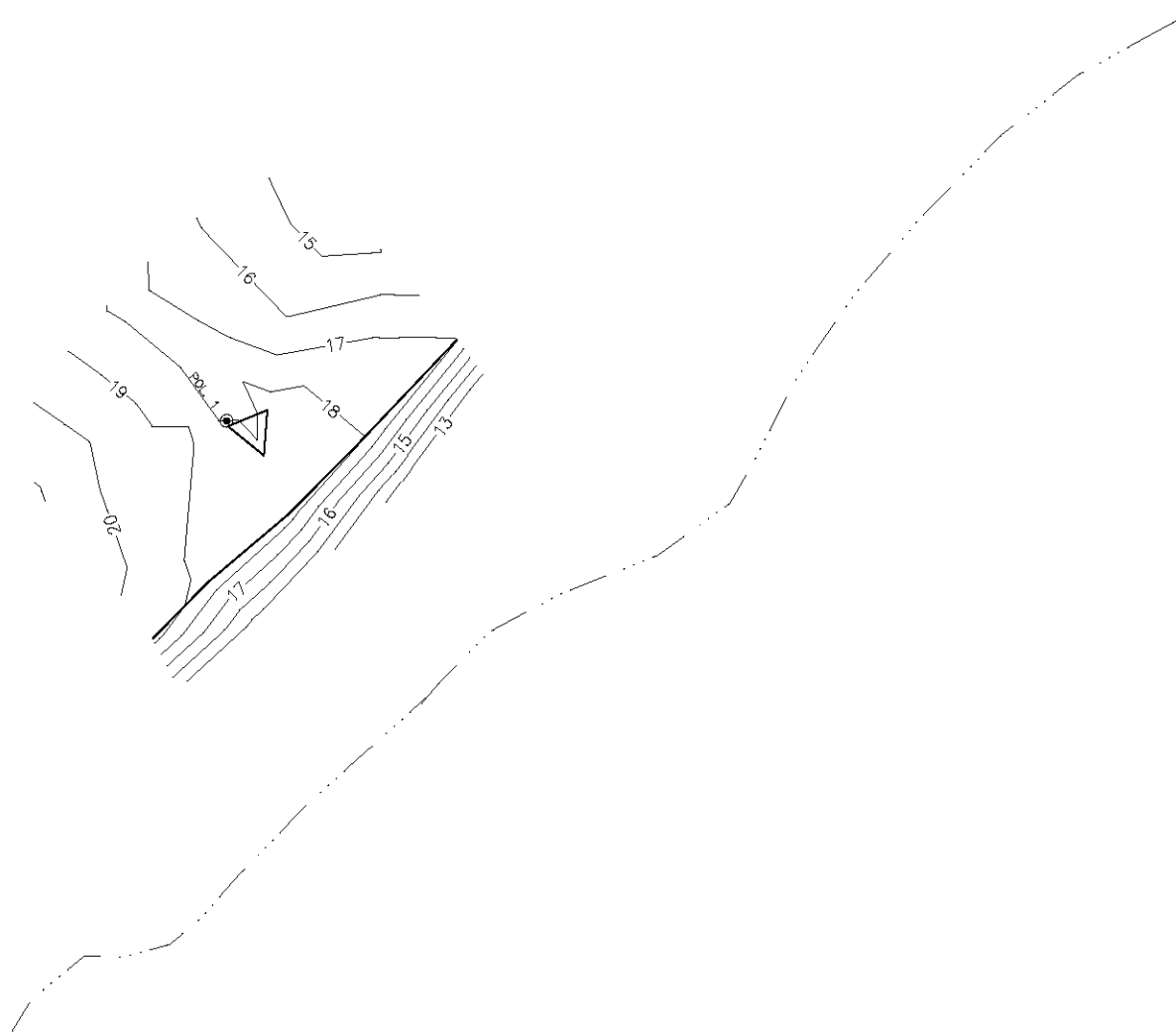
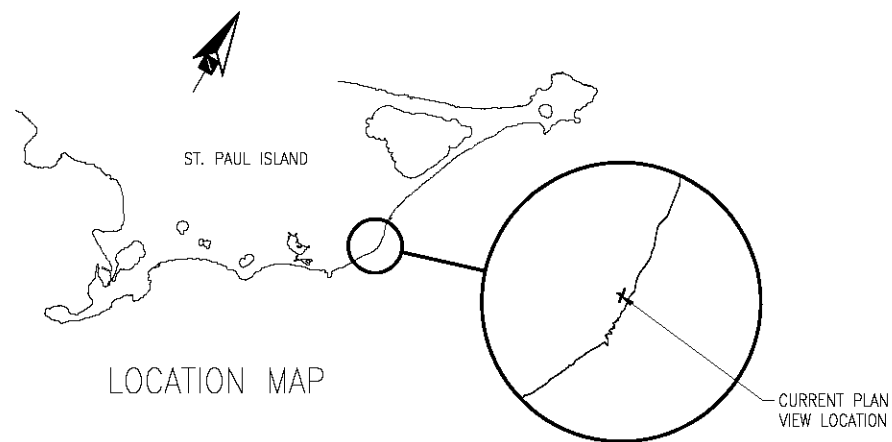
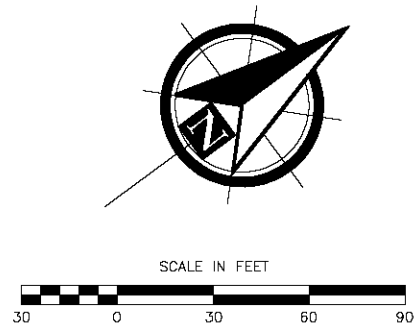
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PROJECT: **REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND**
TITLE: **POLOVINAS CLIFFS ROOKERY SECTIONS 3-7**

DESIGNED BY: MT	DATE: FEBRUARY 2009
CHECKED BY: CK	PROJECT NO: D71103

SHEET NO: **V-16** OF 23



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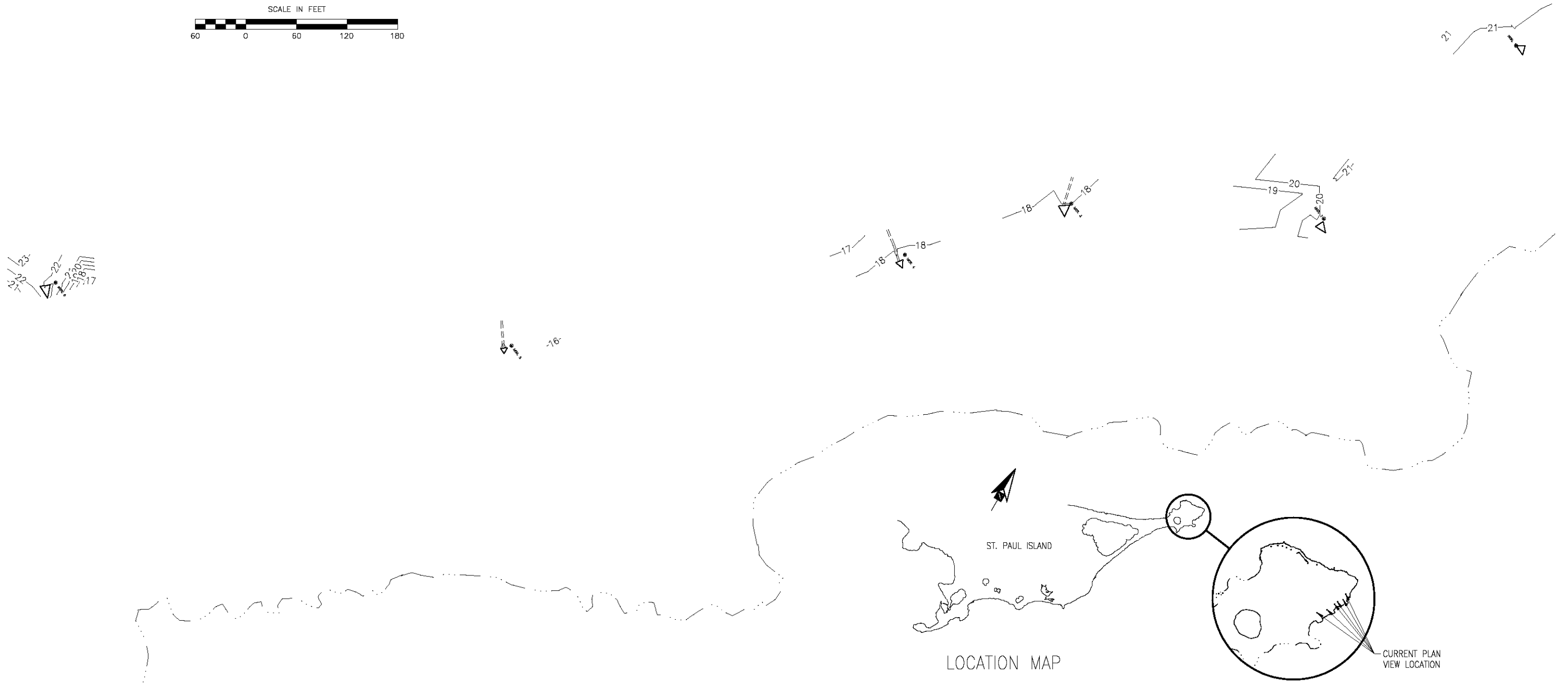
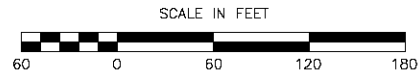
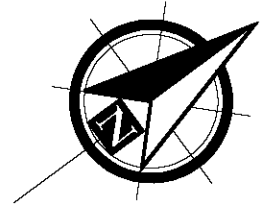
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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: LITTLE POLOVINAS ROOKERY			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-17 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



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PROJECT: **REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND**

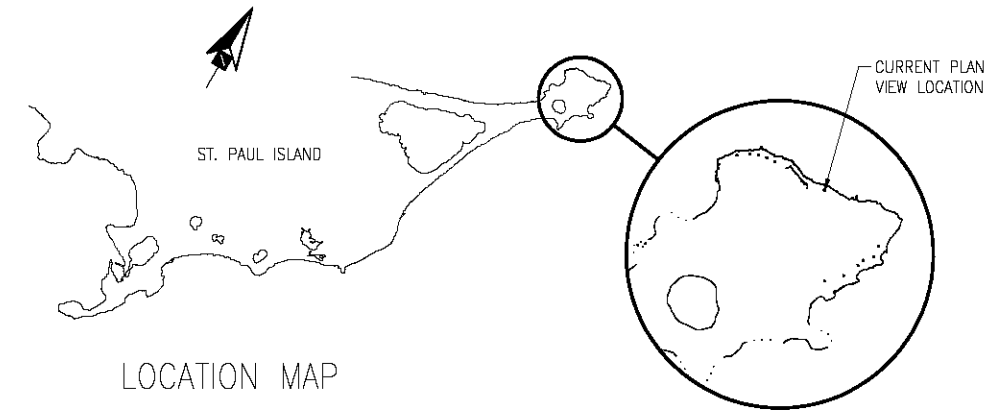
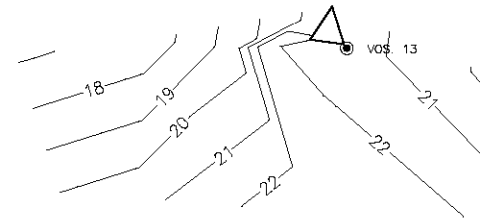
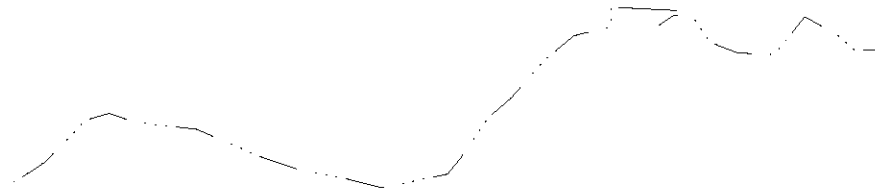
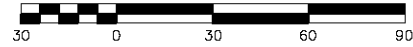
TITLE: **MORJOVI ROOKERY**

DESIGNED BY: MT	DATE: FEBRUARY 2009
CHECKED BY: CK	PROJECT NO: D71103

SHEET NO: **V-18** OF 23



SCALE IN FEET



LOCATION MAP

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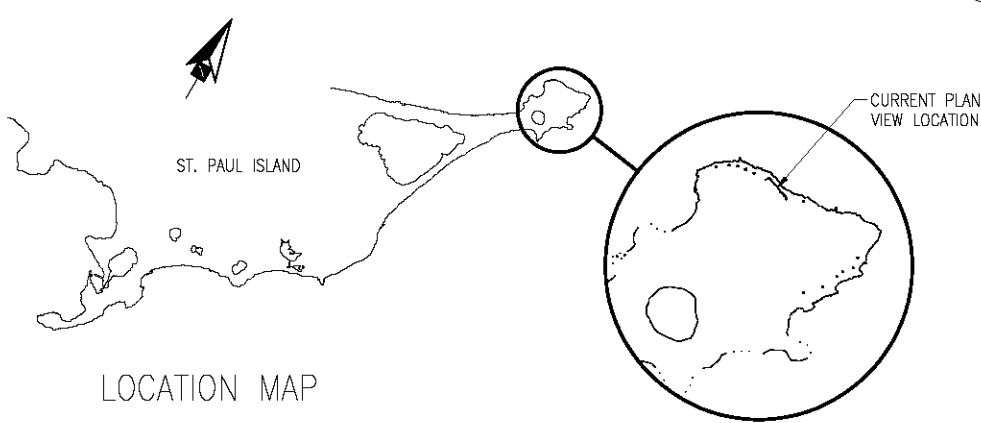
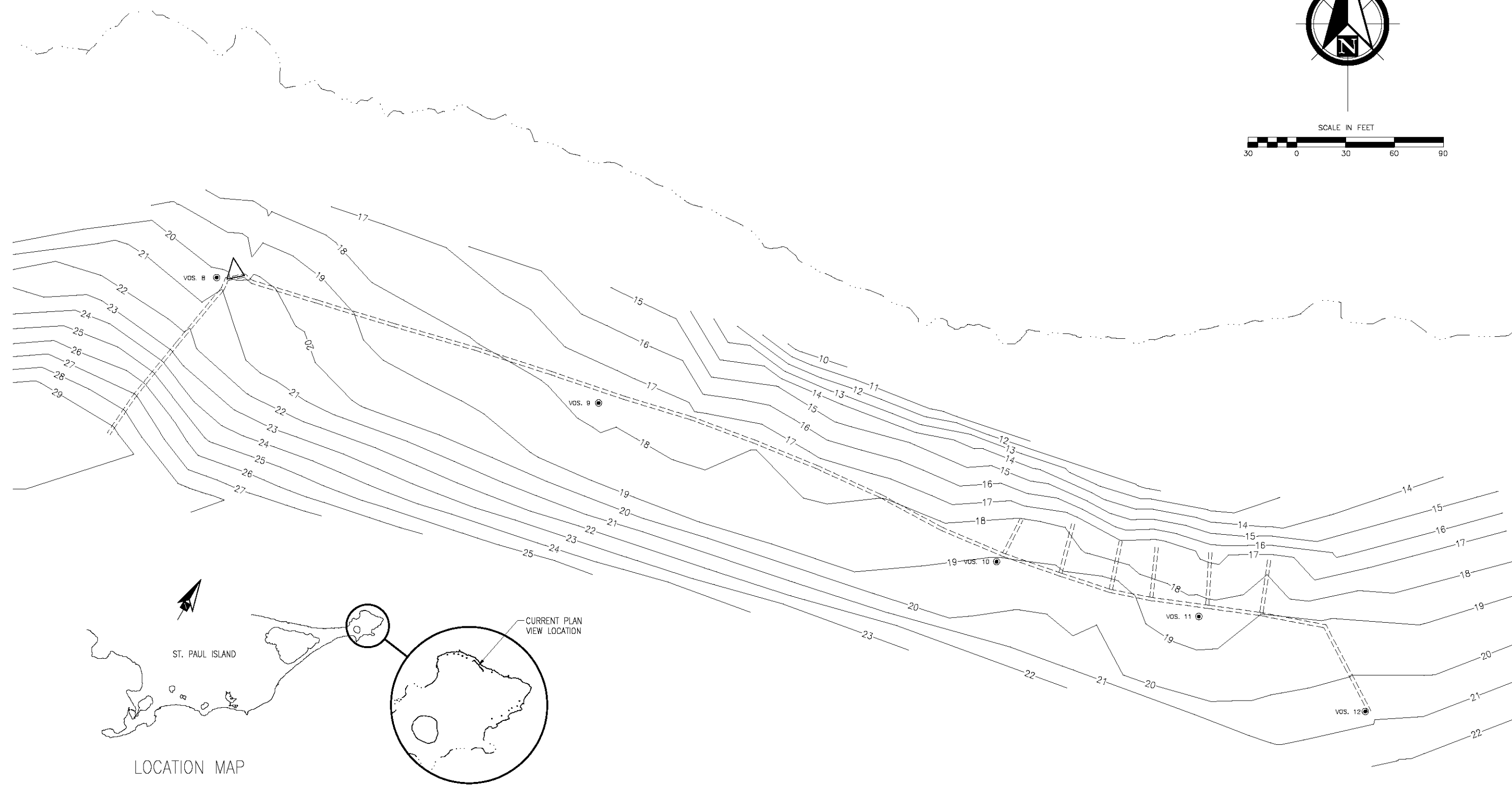
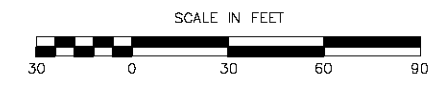
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PROJECT: **REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND**
TITLE: **VOSTOCHNI ROOKERY SECTION 4**

DESIGNED BY: MT	DATE: FEBRUARY 2009
CHECKED BY: CK	PROJECT NO: D71103

SHEET NO: **V-19** OF 23



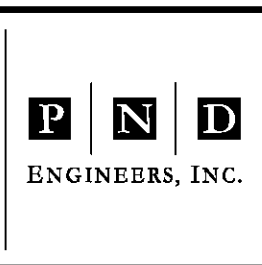
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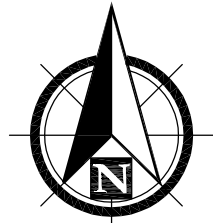
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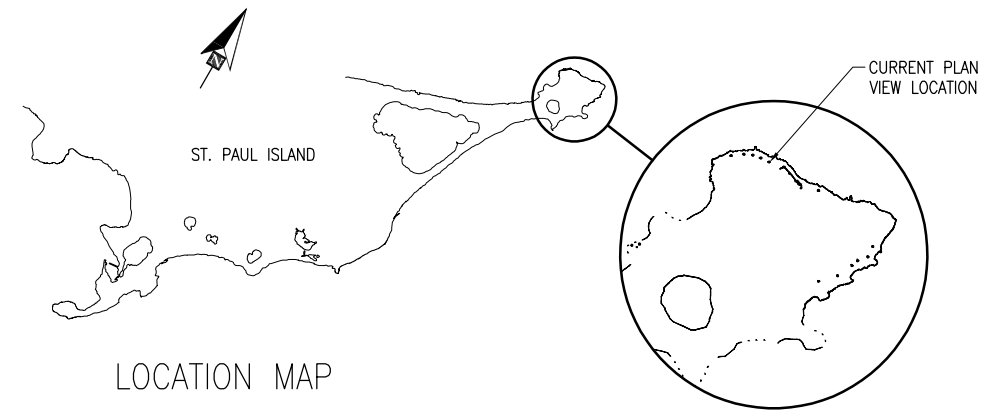
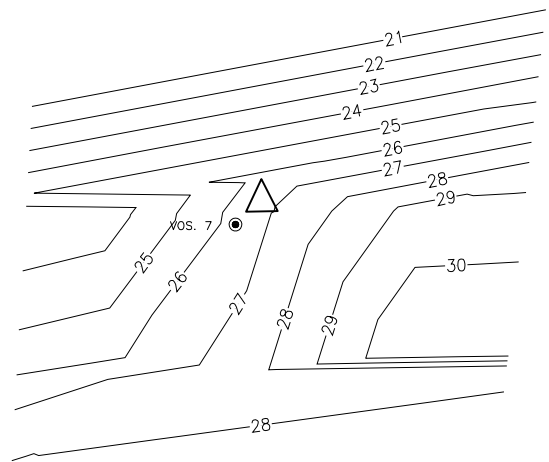
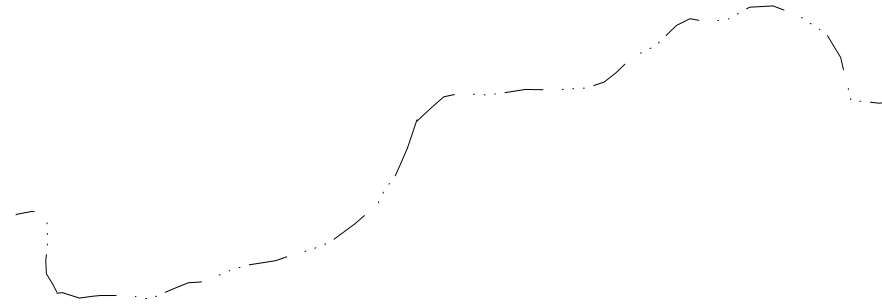
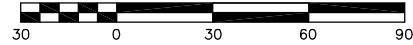
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REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
VOSTOCHNI ROOKERY SECTIONS 6-7			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V-20 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



SCALE IN FEET



LOCATION MAP

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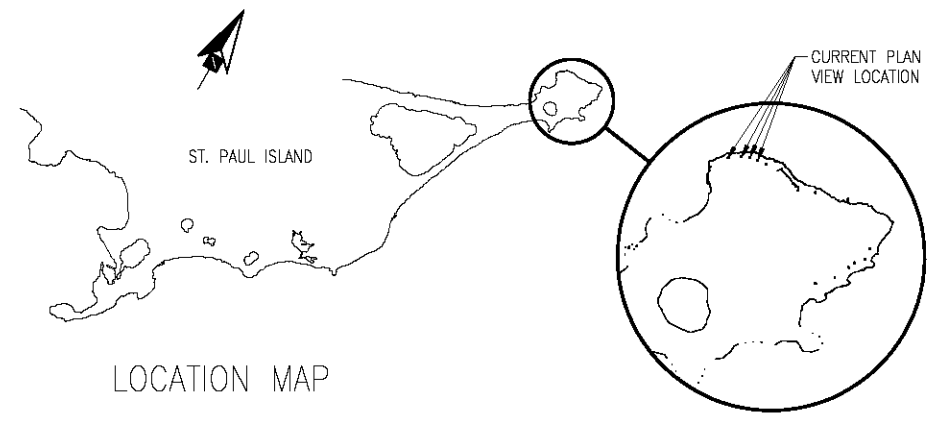
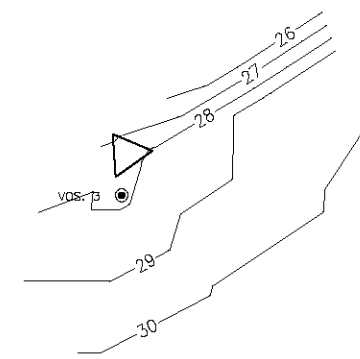
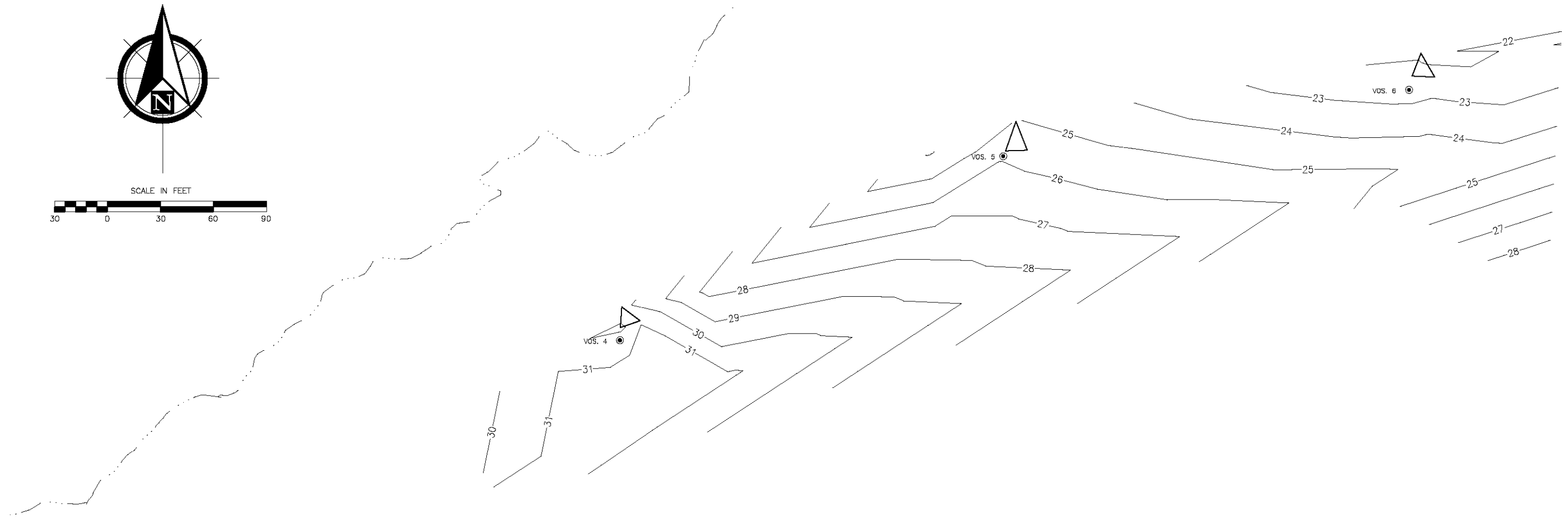
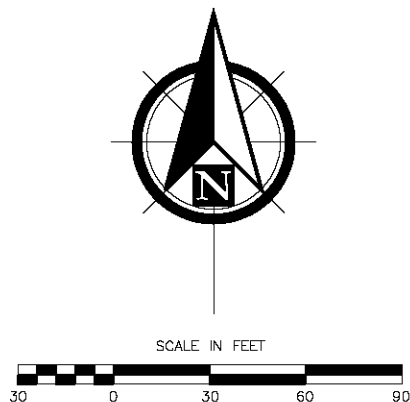
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PROJECT: **REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND**
TITLE: **VOSTOCHNI ROOKERY SECTION 8**

DESIGNED BY: MT	DATE: FEBRUARY 2009
CHECKED BY: CK	PROJECT NO: 071103

SHEET NO: **V-21** OF 23



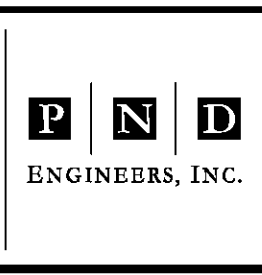
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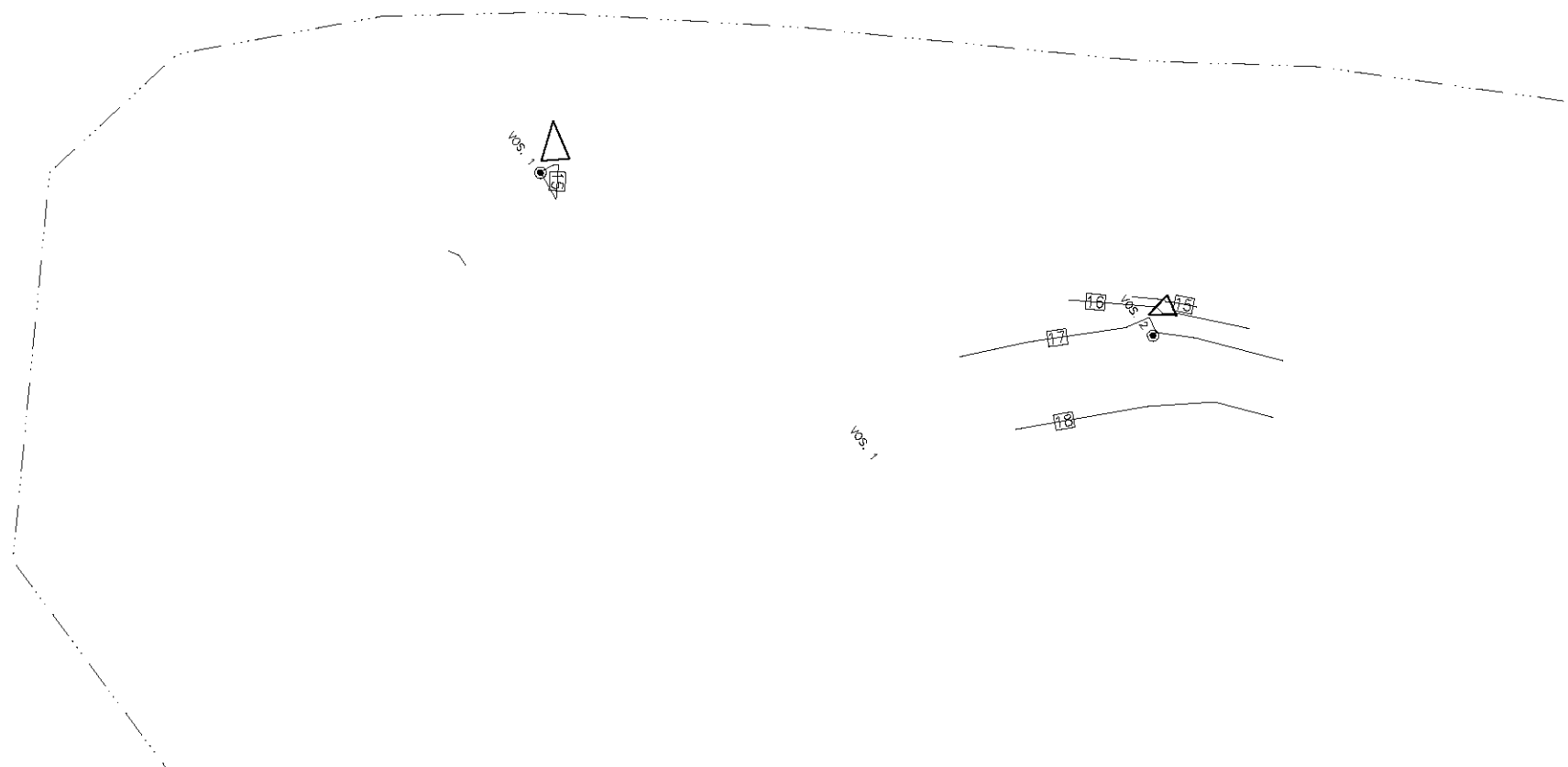
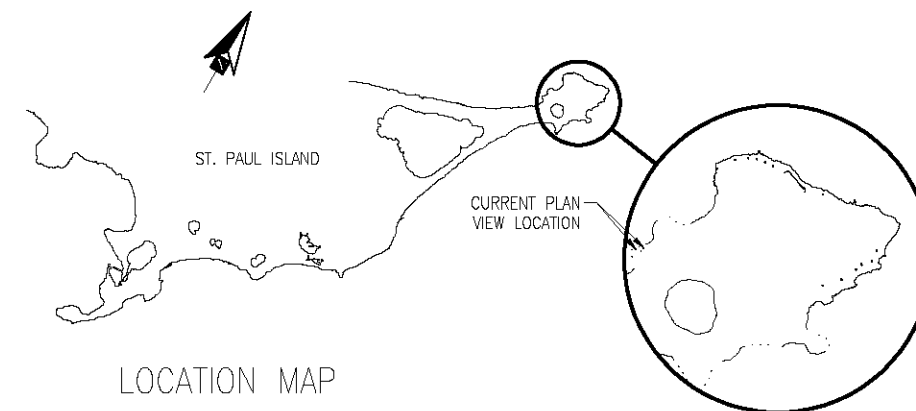
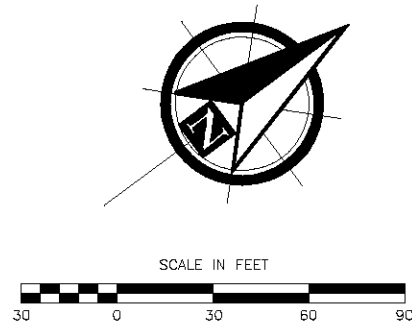
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PROJECT: REPLACEMENT OF FUR SEAL OBSERVATION WALKWAYS AND TOWERS ST. PAUL ISLAND			
TITLE: VOSTOCHNI ROOKERY SECTIONS 9-12			
DESIGNED BY: MT	DATE: FEBRUARY 2009	SHEET NO: V22 OF 23	
CHECKED BY: CK	PROJECT NO: D71103		



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**REPLACEMENT OF FUR SEAL OBSERVATION
 WALKWAYS AND TOWERS
 ST. PAUL ISLAND
 VOSTOCHNI ROOKERY
 SECTION 13**

DESIGNED BY: MT DATE: FEBRUARY 2008
 CHECKED BY: CK PROJECT NO: 071103