

Appendix E: GEOPHYSICAL INVESTIGATION AND FIGURES



September 9, 2024
Project Number 24250

Amanda Del Bello, PE
Richard Brady & Associates, Inc.
10089 Willow Creek Road, Suite 375
San Diego, CA 92131

Subject: Geophysical Investigation – Embarcadero Boulevard Morro Bay, California

Dear Ms. Del Bello,

A geophysical investigation was conducted between the 15th and 19th of July on portions of Embarcadero Boulevard located in Morro Bay, California. The purpose of the geophysical survey was to identify subsurface voids in ten areas and herein referred to as SW1, RVT3, RVT5, RVT6, RVT7, RVT8, RVT9, RVT10, RVT11, RVT12-A to L. The areas of investigation with geophysical interpretation are shown in Figures 1 through 20. RVT1, 2, 4, SW2 and 3 were excluded from the geophysical survey scope of work.

The geophysical technique used for this investigation included the ground penetrating radar (GPR) method. Details on this geophysical method can be found in the attached technical note titled “Ground Penetrating Radar Method”.

FIELD PROCEDURES

The geophysical instrument used during this investigation included a GSSI SIR-4000 GPR with a 350MHz antenna or a GSSI Mini XT Pro with 2700MHz antenna. In Areas SW1, RVT3, RVT5, RVT6, RVT7, RVT8, RVT9, RVT10, RVT11, RVT12-A to I GPR data were collected along parallel traverses spaced approximately 1 foot apart with the 350MHz antenna. In RVT12-I to L GPR data were collected along parallel traverses spaced approximately 1 foot apart with the 2700MHz antenna.

GPR data were collected with the SIR-4000 or Mini XT Pro semi-continuously along the proposed GPR survey grids. The GPR antenna was attached to a survey cart with an integrated survey wheel for spatial control. GPR data were viewed in real time on the monitor, stored on the instrument’s hard disk, and subsequently transferred to a laptop computer at the end of the survey.

GPR 350MHz Antenna Data Acquisition Parameters:

- Range: 60 nanoseconds
- Samples/scan: 512
- Bits/sample: 32
- Scans/foot: 64

GPR 2700MHz Antenna Data Acquisition Parameters:

- Range: 13 nanoseconds
- Samples/scan: 512
- Bits/sample: 32
- Scans/foot: 120

DATA PROCESSING

GPR data were downloaded from the SIR-4000's or Mini XT Pro hard disk to a computer after completion of the field investigation. Data were processed using GSSI's Radan V7.

Steps applied to the GPR data included:

- Time Zero Adjustment
- Background Removal
- Migration
- Adaptive Range Gain
- Deconvolution

RESULTS

The 3D GPR data for SW1, RVT3, RVT5, RVT6, RVT7, RVT8, RVT9, RVT10, RVT11, RVT12-A to L is presented as plan view and are shown in Figures 21-40.

GPR works by transmitting an electromagnetic signal into the ground, reflections are caused by changes in the electrical properties of the material the signal is travelling through, and those reflections are recorded by the GPR unit. In GPR, reflections are caused by any change in the below surface environment as measured by the dielectric constant of the material. GPR is ideally suited to detect air filled voids and metallic objects, as metal has a dielectric constant of infinity, air has a dielectric constant of 1 and soils typically have a dielectric constant range of approximately 5-20. Therefore, when the electromagnetic signal transitions from soil to air a negative high amplitude reflection is recorded or consequently when the electromagnetic signal transitions from soil to metal a positive high amplitude reflection is recorded. As the pulse width of the 350Mhz antenna is approximately 6 inches in size air filled voids with a vertical extent of less than 6 inches will only produce a single reflector and no comment about there vertical extent can be made.

In SW1 the GPR method identified 13 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT3 the GPR method identified 14 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT5 the GPR method identified 41 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT6 the GPR method identified 22 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT7 the GPR method identified 3 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT8 the GPR method identified 18 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT9 the GPR method identified 9 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT10 the GPR method identified 23 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT11 the GPR method identified 13 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-A the GPR method identified 5 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-B the GPR method identified 10 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-C the GPR method identified 5 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-D the GPR method identified 11 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-E the GPR method identified 8 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-F the GPR method identified 7 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-G the GPR method identified 12 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-H the GPR method identified 13 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-I the GPR method identified 11 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-J the GPR method identified no non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-K the GPR method identified 4 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

In RVT12-L the GPR method identified 10 non-linear high-amplitude anomalies (blue in color in the GPR data) which are interpreted as being associated with possible subsurface voids.

The depth below the ground surface of these anomalies is between 0.5 and 3 feet below the ground surface and their vertical extent is probably less than 6-inches. We recommend coring a range of these anomalies to verify their source and determine the vertical extent.

The maximum depth of investigation of GPR with the 350MHz antenna was 7-10 feet and 1.5 feet with the 2700MHz antenna.

If you have any questions concerning this investigation, please call Mr. Riches at 818-734-6609.

Sincerely,



Mark Riches, P.Gp. 1025
Vice President
GEO*vision* Geophysical Services

ATTACHMENTS

- Figure 1: Site Map with Geophysical Interpretation – SW1
- Figure 2: Site Map with Geophysical Interpretation – RVT3
- Figure 3: Site Map with Geophysical Interpretation – RVT5
- Figure 4: Site Map with Geophysical Interpretation – RVT6
- Figure 5: Site Map with Geophysical Interpretation – RVT7
- Figure 6: Site Map with Geophysical Interpretation – RVT8
- Figure 7: Site Map with Geophysical Interpretation – RVT9
- Figure 8: Site Map with Geophysical Interpretation – RVT10
- Figure 9: Site Map with Geophysical Interpretation – RVT1
- Figure 10: Site Map with Geophysical Interpretation – RVT12-A
- Figure 11: Site Map with Geophysical Interpretation – RVT12-B
- Figure 12: Site Map with Geophysical Interpretation – RVT12-C
- Figure 13: Site Map with Geophysical Interpretation – RVT12-D
- Figure 14: Site Map with Geophysical Interpretation – RVT12-E
- Figure 15: Site Map with Geophysical Interpretation – RVT12-F
- Figure 16: Site Map with Geophysical Interpretation – RVT12-G
- Figure 17: Site Map with Geophysical Interpretation – RVT12-H
- Figure 18: Site Map with Geophysical Interpretation – RVT12-I & K
- Figure 19: Site Map with Geophysical Interpretation – RVT12-J
- Figure 20: Site Map with Geophysical Interpretation – RVT12-L
- Figure 21: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS– SW1
- Figure 22: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT3
- Figure 23: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT5
- Figure 24: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT6
- Figure 25: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT7
- Figure 26: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT8
- Figure 27: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT9
- Figure 28: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT10
- Figure 29: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT1
- Figure 30: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT12-A
- Figure 31: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT12-B

- Figure 32: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT12-C
Figure 33: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT12-D
Figure 34: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT12-E
Figure 35: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT12-F
Figure 36: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT12-G
Figure 37: 350MHz GPR Data Plan View 0-5 to 3.0 Feet BGS – RVT12-H
Figure 38: 350MHz & 2700MHz GPR Data Plan View 0-5 to 3.0 Feet BGS –
RVT12-I & K
Figure 39: 2700MHz GPR Data Plan View 0-5 to 1.5 Feet BGS – RVT12-J
Figure 40: 2700MHz GPR Data Plan View 0-5 to 1.5 Feet BGS – RVT12-L
- Appendix: Application Note – Ground Penetrating Radar Method.

FIGURES

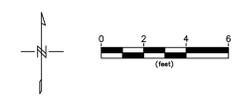


SW1

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	FIGURE 1 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	SW1 EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Sep. 09, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 24250\24250-100	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



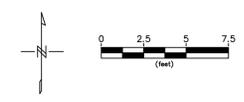
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HANDHOLE
 VAULT
 HANDHOLE

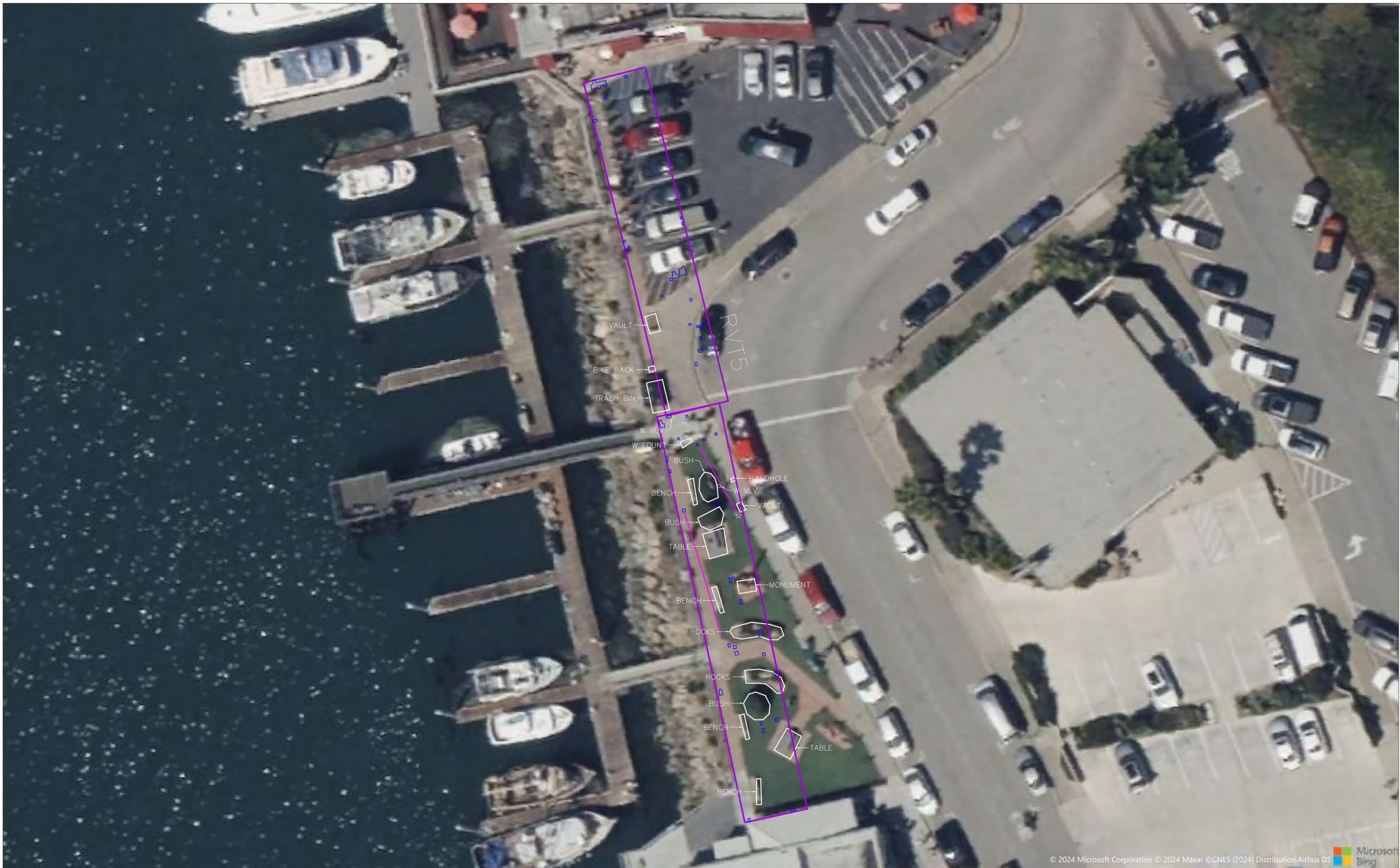
RVVT3

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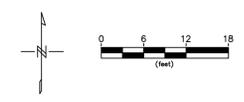


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	FIGURE 2 SITE MAP WITH GEOPHYSICAL INTERPRETATION
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RVT3 EMBARCADERO BOULEVARD MORRO BAY, CA	
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	FIGURE 3 SITE MAP WITH GEOPHYSICAL INTERPRETATION
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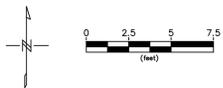
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	FIGURE 4 SITE MAP WITH GEOPHYSICAL INTERPRETATION
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Project No. 24250 Date Aug. 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 04250124250-104	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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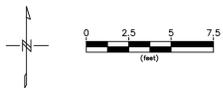
	FIGURE 5 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT7 EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Sep. 09, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 01242501250-104	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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	FIGURE 6 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVTB EMBARCADERO BOULEVARD MORRO BAY, CA
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STREET LIGHT

RVT9

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	FIGURE 7 SITE MAP WITH GEOPHYSICAL INTERPRETATION
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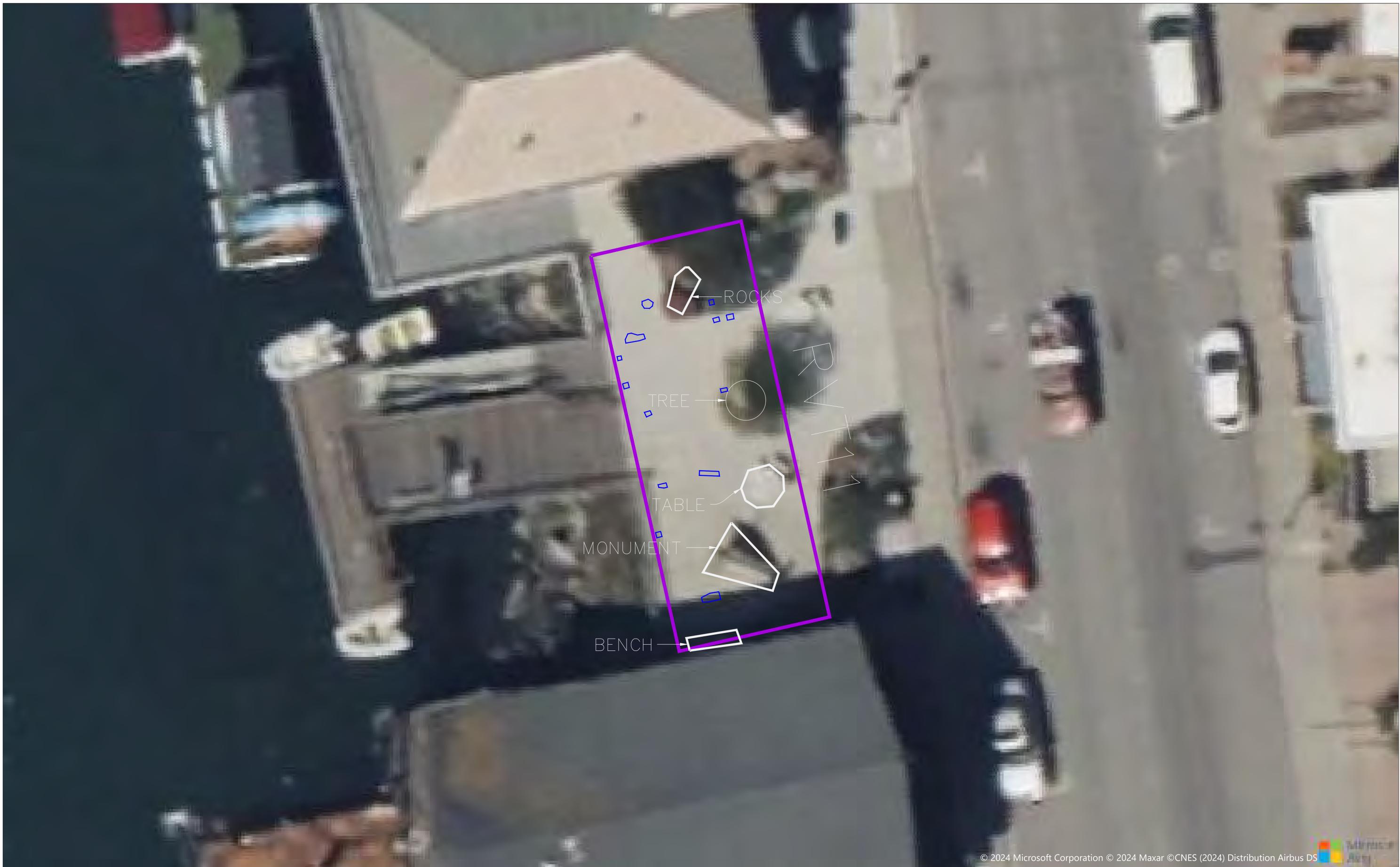
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GEOVision <small>geophysical services</small>	FIGURE 8 SITE MAP WITH GEOPHYSICAL INTERPRETATION
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Project No. 24250	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.
Date Sep. 09, 2024	
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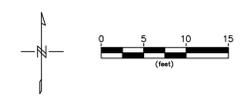
NOTE: All the geophysical methods have limitations dependent on instrumentation used, soil conditions, and local cultural noise and other interference. The interpretation of geophysical conditions presented above comprises a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

GEOVision <small>geophysical services</small>	FIGURE 9 SITE MAP WITH GEOPHYSICAL INTERPRETATION
Project No. 24250	RVT11
Date Sep. 09, 2024	EMBARCADERO BOULEVARD
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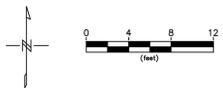
 <small>NOTE: All the geophysical methods have limitations dependent on instrumentation used, soil conditions, and local cultural noise and other interference. The interpretation of geophysical conditions presented above complies a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVISION Geophysical Services.</small>	FIGURE 10 SITE MAP WITH GEOPHYSICAL INTERPRETATION	
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	RVT-12A	
		



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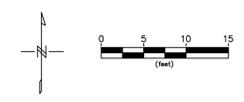
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	FIGURE 11 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT-12B EMBARCADERO BOULEVARD MORRO BAY, CA
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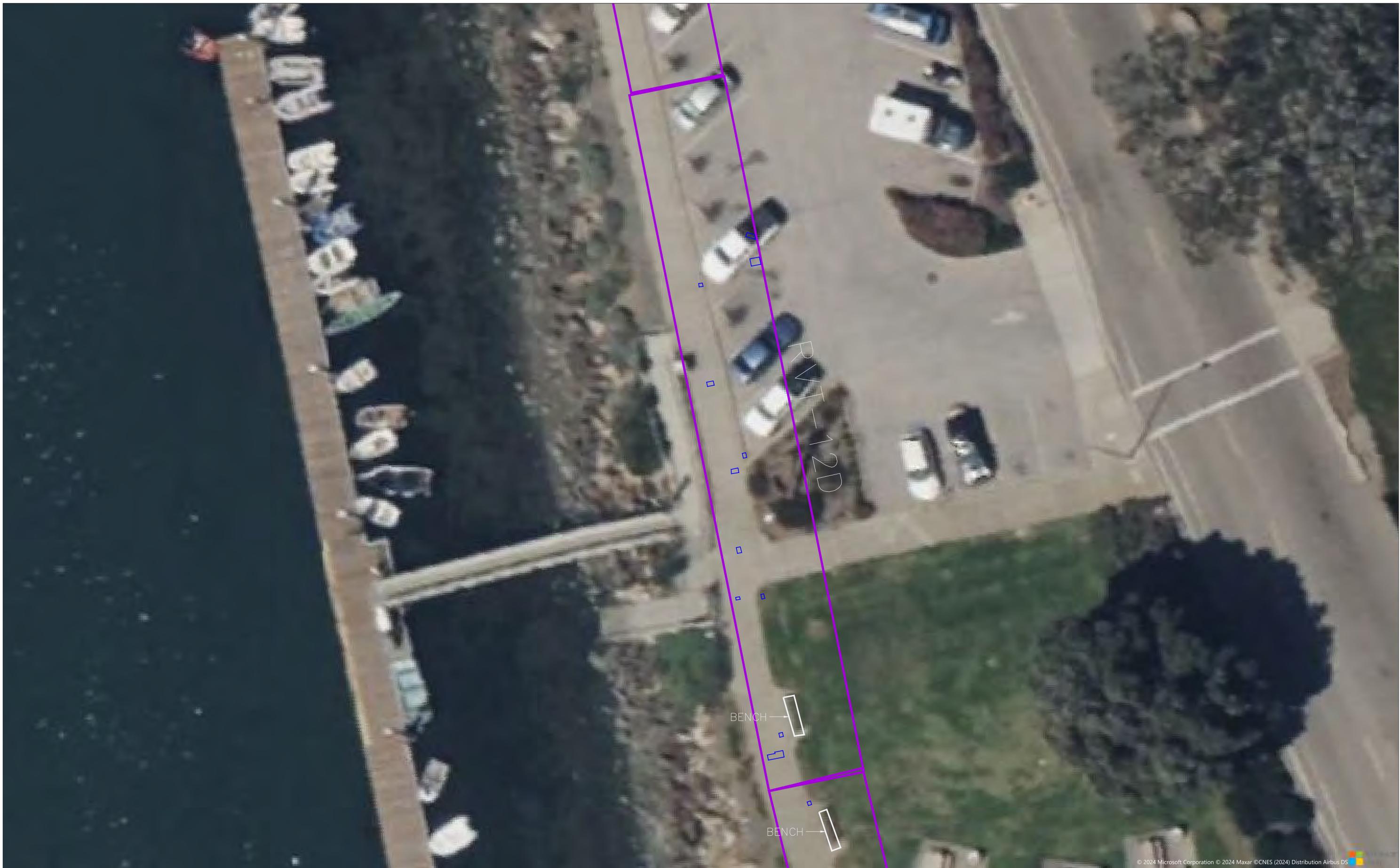
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NOTE: All the geophysical methods have limitations dependent on instrumentation used, soil conditions, and local cultural noise and other interference. The interpretation of geophysical conditions presented above complies a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

	FIGURE 12 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT-12C EMBARCADERO BOULEVARD MORRO BAY, CA
	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.
	Project No. 24250 Date Sep. 09, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 24250\24250-12C
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	FIGURE 13 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT-12D EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Sep. 09, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 04250124250-12D	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



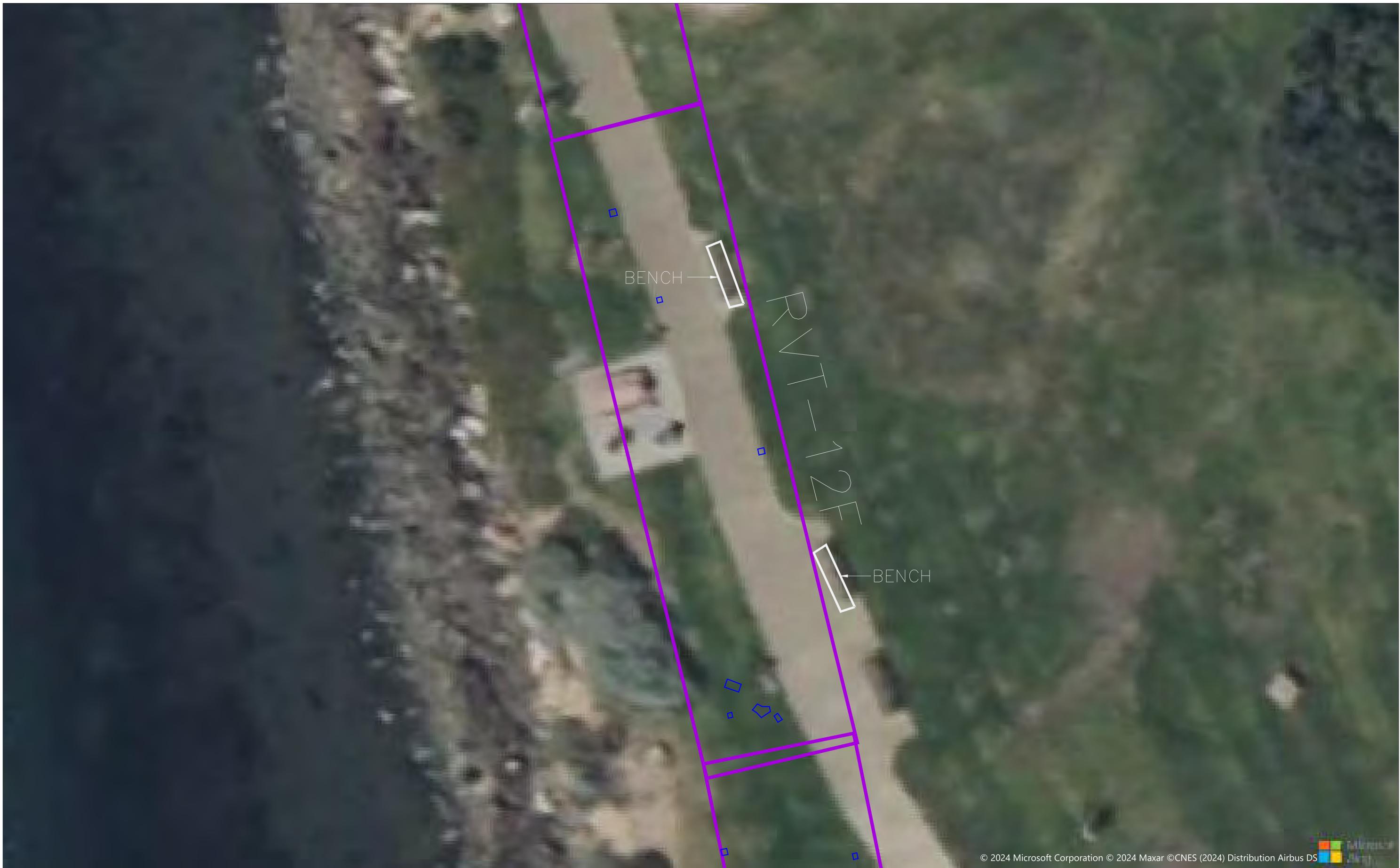
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	FIGURE 14 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT-12E EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Sep. 09, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 24250\24250-12E	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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	FIGURE 15 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT-12F EMBARCADERO BOULEVARD MORRO BAY, CA
	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.
	Project No. 24250 Date Sep. 09, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 01425014250-104
	



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	FIGURE 16 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT-12G EMBARCADERO BOULEVARD MORRO BAY, CA
	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.
	Project No. 24250 Date Sep. 09, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 24250\24250-12G
	



TREE

TABLE

TABLE

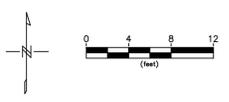
RVT-12H

BENCH

BENCH

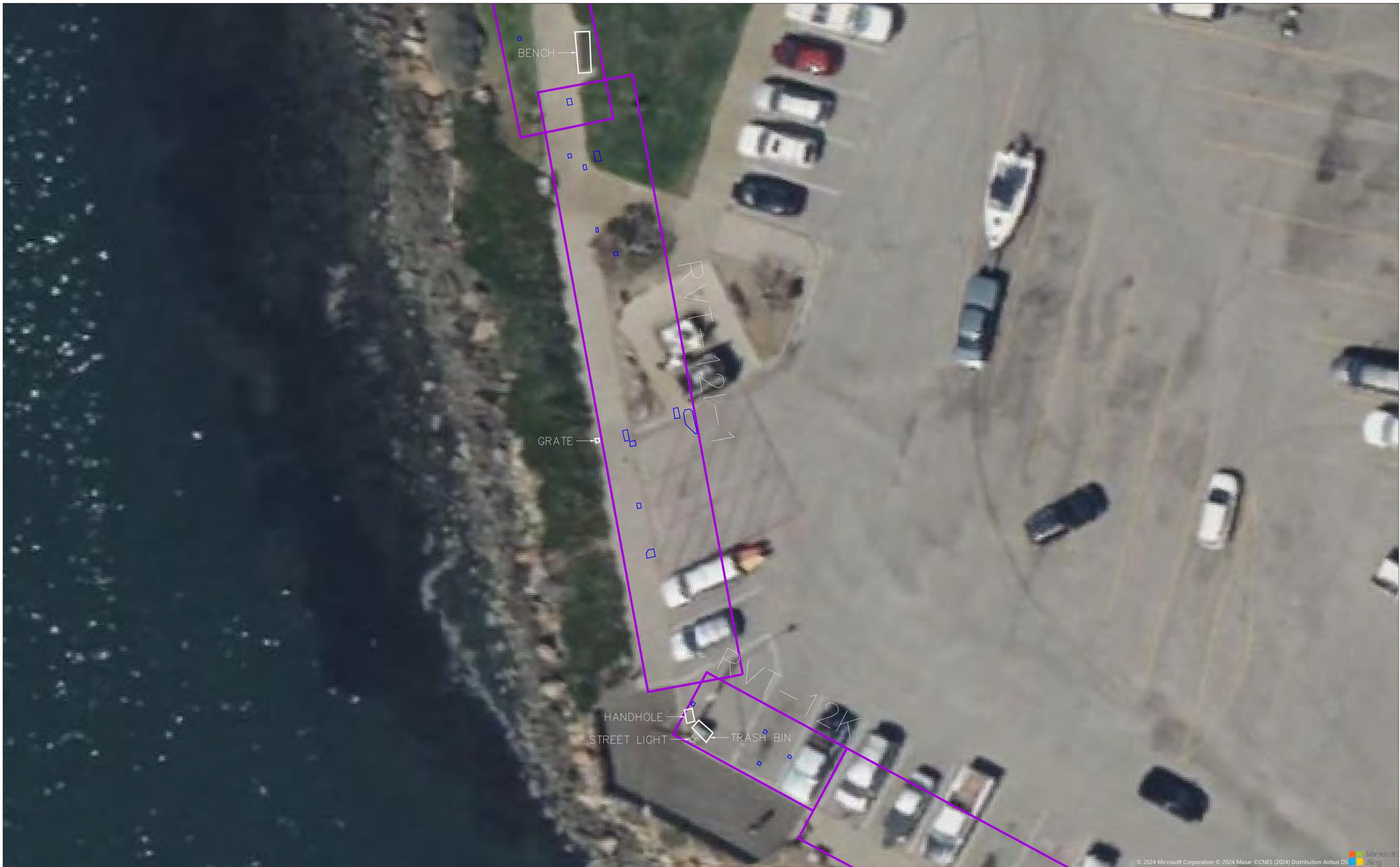
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	FIGURE 17 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT-12H EMBARCADERO BOULEVARD MORRO BAY, CA
	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.
	Project No. 24250 Date Sep. 09, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 24250\24250-104
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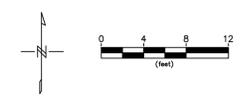
HANDHOLE
STREET LIGHT
TRASH BIN

BENCH

GRATE

RVT-121-1

RVT-12K



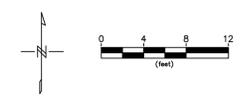
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	FIGURE 18 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT-121 AND RVT-12K EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Sep. 09, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 042501212K-100	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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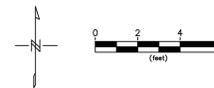
	FIGURE 19 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT-12J EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Sep. 09, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 24250\24250-100	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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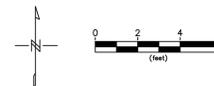
	FIGURE 20 SITE MAP WITH GEOPHYSICAL INTERPRETATION
	RVT-12L EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Sep. 09, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 24250\24250-12L	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



SW1

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	FIGURE 21 350MHZ GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	SW1 EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug. 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 0124250-104	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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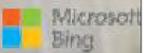


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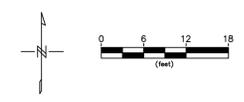
NOTE: All the geophysical methods have limitations dependent on instrumentation used, soil conditions, and local cultural noise and other interference. The interpretation of geophysical conditions presented above complies a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

	FIGURE 22 350MHZ GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT3 EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug. 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 04250\24250-104	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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	FIGURE 23
	350MHZ GPR DATA PLAN VIEW
	0.5 TO 3.0 FEET BGS
Project No. 24250	RVT5
Date Aug. 27, 2024	EMBARCADERO BOULEVARD
Developed by J FOSTER	MORRO BAY, CA
Drawn by S ORTEGA	PREPARED FOR
Approved by M RICHES P.G.P.	RICHARD BRADY & ASSOCIATES, INC.
File Name G:\24250\24250-104	



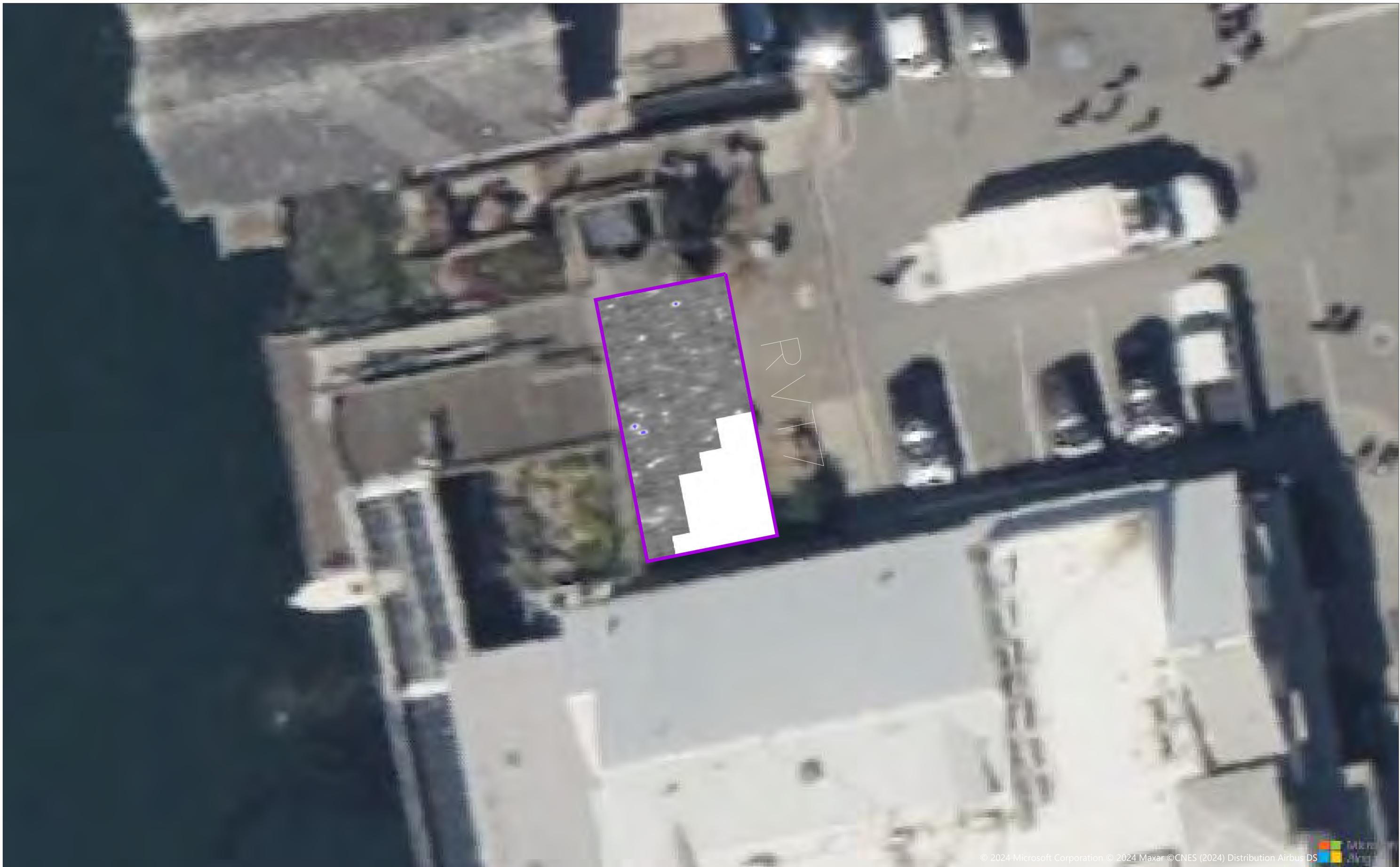
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	FIGURE 24 350MHZ GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT16 EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug. 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 012425024250-104	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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	FIGURE 25 350MHZ GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	PROJECT No. 24250 Date Aug. 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 04250\04250-104
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	FIGURE 26 350MHz GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT8 EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug. 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 012425028-104	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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	FIGURE 27 350MHz GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT9 EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 04250\24250-104	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



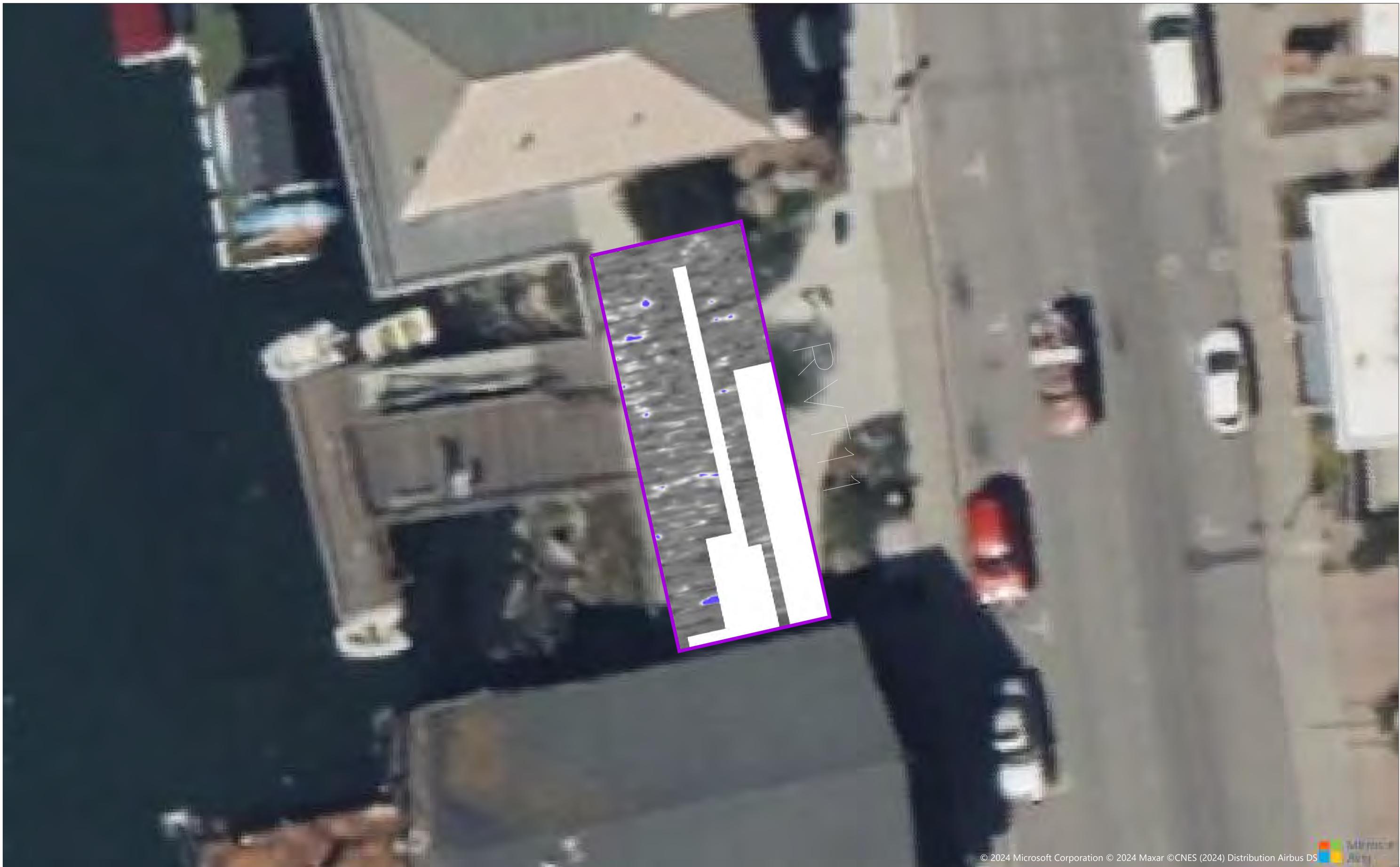
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	FIGURE 28 350MHz GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT10 EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug. 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 0124250-104	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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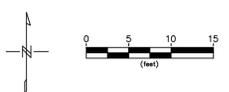
	FIGURE 29 350MHZ GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT11 EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.GP. File Name 04250\24250-104	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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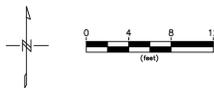
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	Project No. 24250	FIGURE 30 350MHZ GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	Date Aug. 27, 2024	RVT-12A
	Developed by J FOSTER	EMBARCADERO BOULEVARD MORRO BAY, CA
	Drawn by S ORTEGA	PREPARED FOR
	Approved by M RICHES P.G.P. File Name 01242502425-12A	RICHARD BRADY & ASSOCIATES, INC.



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	FIGURE 31 350MHZ GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT-12B EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 01242501250-1250	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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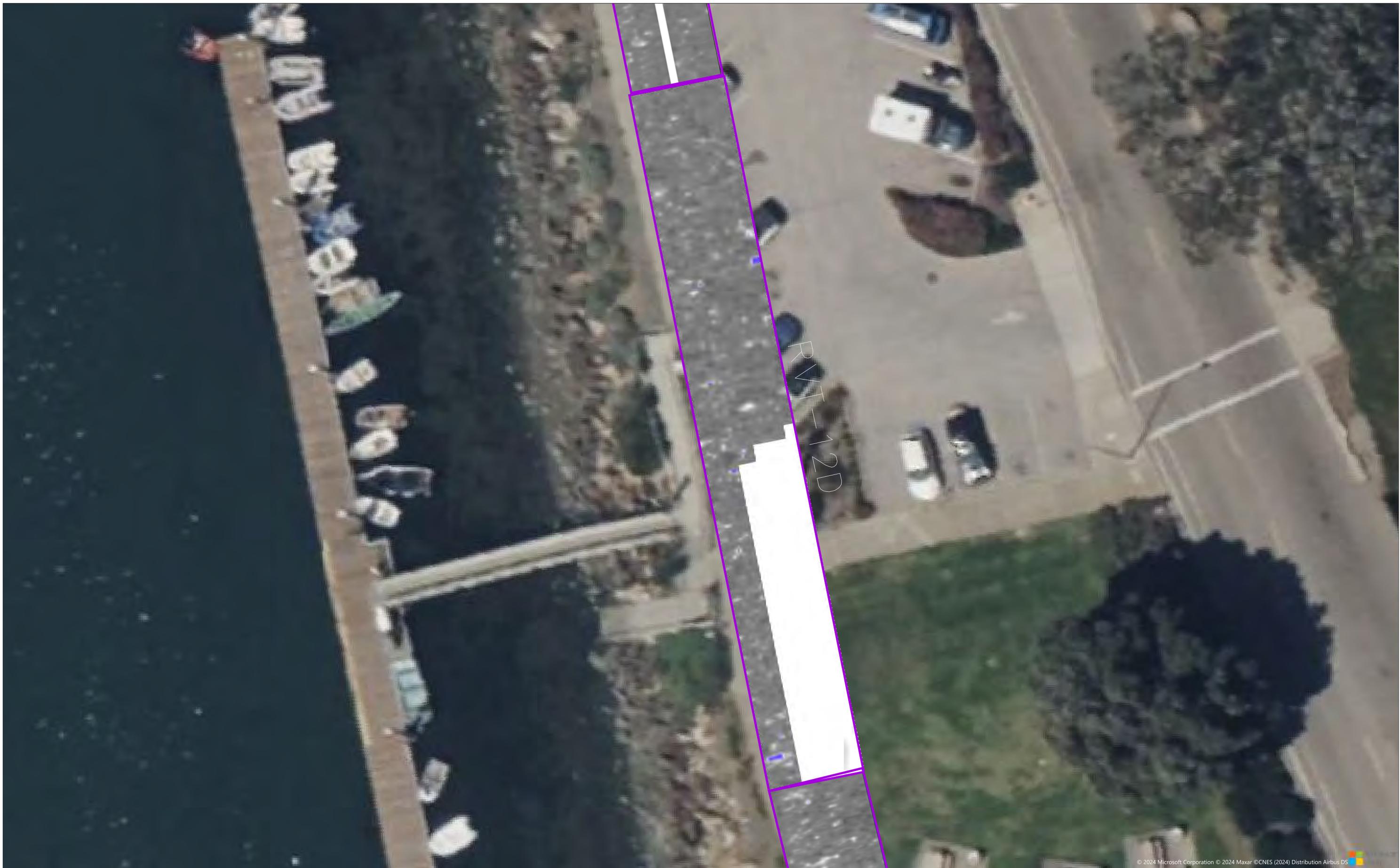


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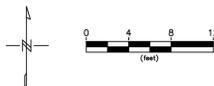


NOTE: All the geophysical methods have limitations dependent on instrumentation used, soil conditions, and local cultural noise and other interference. The interpretation of geophysical conditions presented above complies a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

	FIGURE 32 350MHz GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT-12C EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug. 27, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 24250\24250-12C	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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	FIGURE 33
	350MHz GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
Project No. 24250	RVT-12D
Date Aug. 27, 2024	EMBARCADERO BOULEVARD
Developed by J FOSTER	MORRO BAY, CA
Drawn by S ORTEGA	PREPARED FOR
Approved by M RICHES P.G.P.	RICHARD BRADY & ASSOCIATES, INC.
File Name 04250\24250-104	



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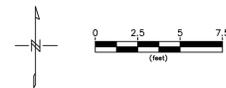
NOTE: All the geophysical methods have limitations dependent on instrumentation used, soil conditions, and local cultural noise and other interference. The interpretation of geophysical conditions presented above complies a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

	FIGURE 34 350MHz GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT-12E EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.GP. File Name 04250\24250-12E	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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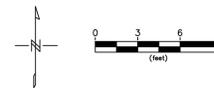


NOTE: All the geophysical methods have limitations dependent on instrumentation used, soil conditions, and local cultural noise and other interference. The interpretation of geophysical conditions presented above complies a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

	FIGURE 35 350MHz GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT-12F EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 01425014250-104	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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	FIGURE 36 350MHz GPR DATA PLAN VIEW TO 3.0 FEET BGS
	RVT-12G EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug. 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name 0124250-12G	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.

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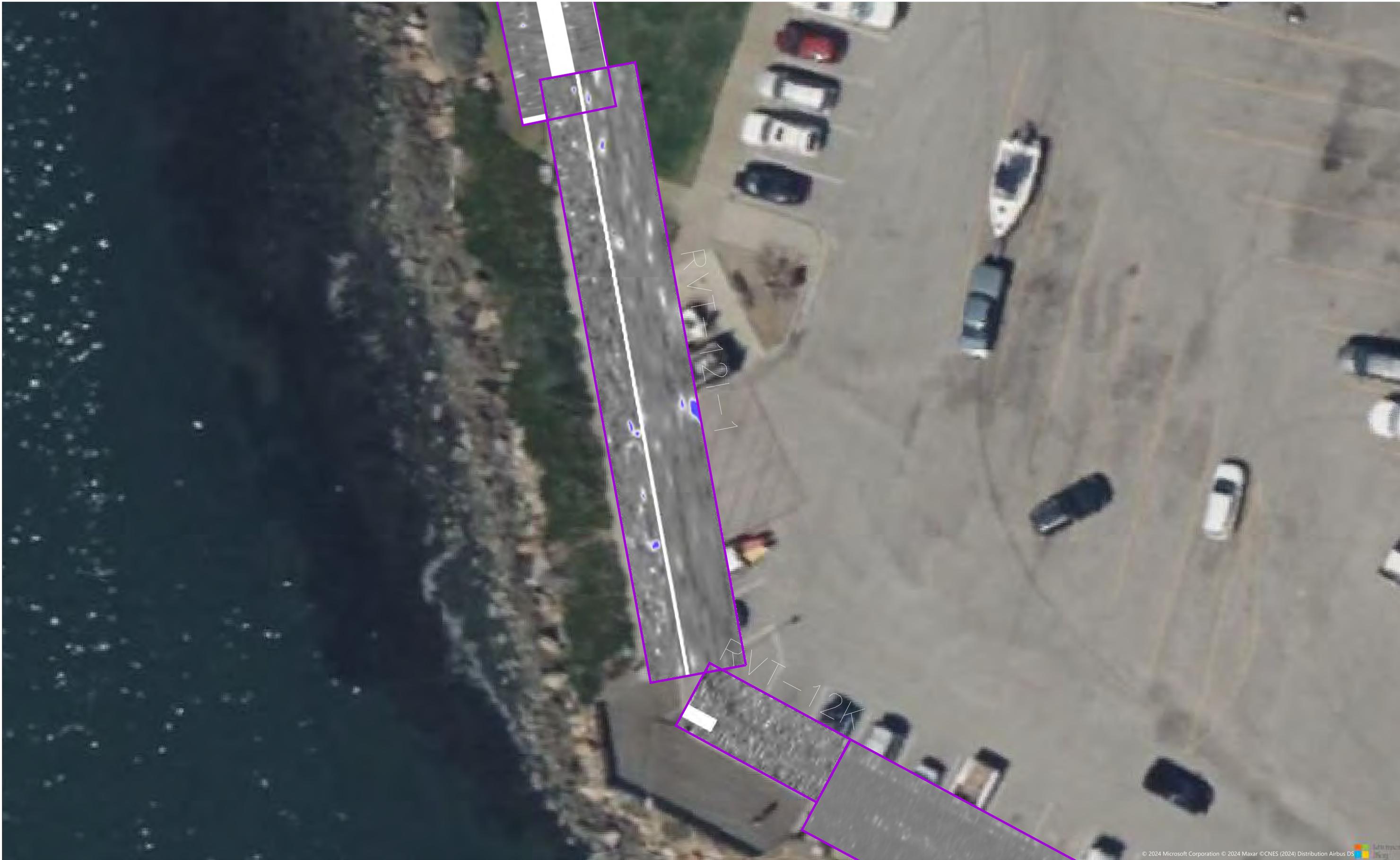
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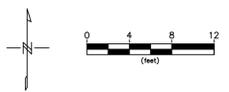
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	FIGURE 37
	350MHz GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
Project No. 24250	RVT-12H
Date Aug. 27, 2024	EMBARCADERO BOULEVARD
Developed by J FOSTER	MORRO BAY, CA
Drawn by S ORTEGA	PREPARED FOR
Approved by M RICHES P.G.P.	RICHARD BRADY & ASSOCIATES, INC.
File Name 0124250-104	



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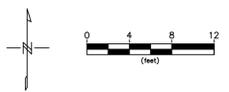
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	FIGURE 38 350MHz AND 2700MHz GPR DATA PLAN VIEW 0.5 TO 3.0 FEET BGS
	RVT-121 AND RVT-12K EMBARCADERO BOULEVARD MORRO BAY, CA
Project No. 24250 Date Aug. 27, 2024 Developed by J FOSTER Drawn by S ORTEGA Approved by M RICHES P.G.P. File Name: 24250\38-1.mxd	PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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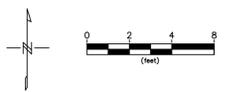
NOTE: All the geophysical methods have limitations dependent on instrumentation used, soil conditions, and local cultural noise and other interference. The interpretation of geophysical conditions presented above comprises a declaration of the geophysicist's professional judgement using methods and a degree of care and skill ordinarily exercised, under similar circumstances, by reputable members of their profession practicing in the same or similar locality. It does not constitute a warranty or guarantee, expressed or implied, nor does it relieve any other party of its responsibility to abide by contract documents, applicable codes, standards, regulations or ordinances. If you require further information about the limitations of the instruments and/or methods used on this project please contact GEOVision Geophysical Services.

	FIGURE 39
	2700MHz GPR DATA PLAN VIEW
Project No. 24250 Date Aug. 27, 2024 Developed by J. FOSTER Drawn by S. ORTEGA Approved by M. RICHES P.G.P. File Name: 24250\24250-1.mxd	0.5 TO 1.5 FEET BGS RVT-12J EMBARCADERO BOULEVARD MORRO BAY, CA PREPARED FOR RICHARD BRADY & ASSOCIATES, INC.



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		FIGURE 40
		2700MHz GPR DATA PLAN VIEW 0.5 TO 1.5 FEET BGS
Project No. 24250	RVT-12L	
Date Aug. 27, 2024	EMBARCADERO BOULEVARD MORRO BAY, CA	
Developed by J FOSTER	PREPARED FOR	
Drawn by S ORTEGA	RICHARD BRADY & ASSOCIATES, INC.	
Approved by M RICHES P.G.P.		
File Name: 24250\408-1.mxd		

APPENDIX

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19205 Parthenia Street, Unit D. Northridge, California 91324. Telephone: (818) 734-6609
www.geovision.com

GROUND PENETRATING RADAR METHOD



Ground-penetrating radar (GPR) is a high-frequency electromagnetic method that **GEOVision** commonly applies to a number of engineering and environmental problems.

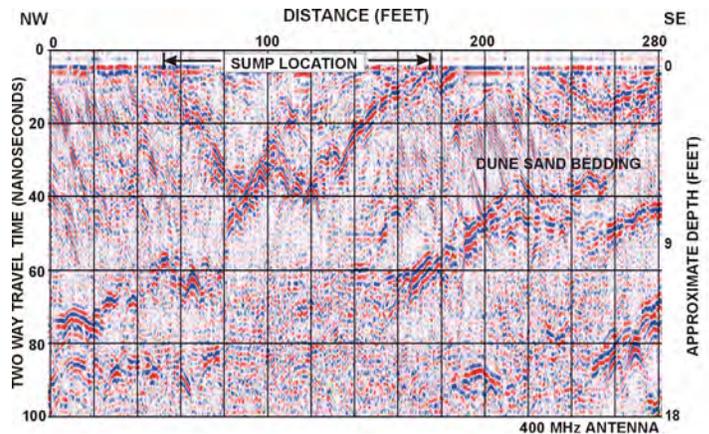
A GPR system radiates short pulses of high-frequency EM energy into the ground from a transmitting antenna. This EM wave propagates in the ground at a velocity that is primarily a function of the relative dielectric permittivity of subsurface materials. When this wave encounters the interface of two materials having different dielectric properties, a portion of the energy is reflected back to the surface, where it is detected by a receiver antenna and transmitted to a control unit for processing and display.

Depth penetration is a function of antenna frequency and the electrical conductivity of the soils in the survey area. Lower frequency antennas achieve greater depth penetration than higher frequency antennas but have poorer spatial resolution. Conductive soils, such as clays, attenuate the radar waves much more rapidly than resistive sand and rock.

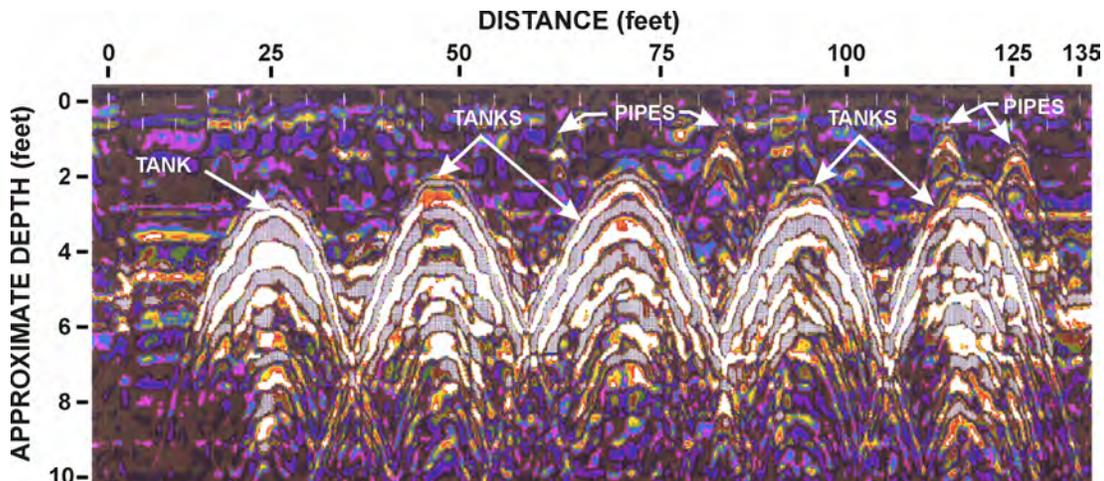


GSSI SIR-10A GPR Unit

- GEOVision** geophysicists use the GPR method to:
- Locate and delineate underground storage tanks (metallic and non-metallic)
 - Locate metallic and nonmetallic pipes and utility cables
 - Map rebar in concrete structures
 - Map landfill boundaries
 - Delineate pits and trenches containing metallic and nonmetallic debris
 - Locate sumps and mud pits
 - Delineate leach fields and industrial cribs
 - Delineate previously excavated and backfilled areas
 - Map shallow groundwater tables
 - Map shallow soil stratigraphy
 - Map shallow bedrock topography
 - Map shallow subsurface voids and cavities



GPR Survey to Locate Oil Well Sump



GPR Survey to Locate Underground Storage Tanks