



Kevin Laut

Construction Manager

Capital Planning, Design, and
Construction

CSU Office of the Chancellor



SUBSURFACE UTILITY MAPPING MEA

Provide turn-key Subsurface Utility Mapping Services including the following;

- 1) Review of existing documents and surface site features to compile existing utility information without site disturbance.
- 2) Use of various technologies to identify the locations of underground utilities.
- 3) Excavation and potholing services are required to identify critical utility horizontal and vertical locations.
- 4) Full survey and detailing services to create complied or project specific utility drawings.
- 5) 3-D modeling of underground utilities as required to support project specific coordination efforts.
- 6) Management and coordination of logistics required to complete investigation work.

AWARDED SERVICE PROVIDERS

- 1) McCarthy Building Companies, Inc.
- 2) C-Below, Inc.
- 3) PDM GEL Solutions, Inc.

- Contracts will be posted to the cyou.edu procurement contract store and a CM Technical Bulletin will be sent out with links and additional info.

CSU The California State University
MASTER ENABLING AGREEMENT
UNDERGROUND UTILITY MAPPING SERVICES
For use on any CSU Campus.

SERVICE PROVIDER
 TRUSTEES

This AGREEMENT is made and entered into this [Day] day of [Month], [Year] pursuant to the Public Contract Code 10700, *et seq.*, by and between the Trustees of the California State University on behalf of

<i>Campus, hereafter referred to as Trustees, and</i> California State University	Amendment No.: N/A	Agreement No.: 123456	Project No.: 123456
<i>Service Provider, hereafter referred to as Service Provider.</i> Service Provider		CSU Vendor ID No.: 123456	License or DIR No.: 123456

WITNESSETH: That the Service Provider in consideration of the statements and conditions herein contained, agrees to furnish labor, materials, and equipment and to perform work necessary to complete, in a skillful manner: Subsurface Utility Mapping Services for multiple projects located at various campuses within the California State University System.

The Service Provider shall provide such services as more fully described in the following Rider and Exhibits, which by this reference are incorporated herein and made part of this Agreement:

Rider	A	Agreement General Provisions,	consisting of four (4) pages;
Exhibit	A	Scope of Services (RFP),	consisting of (7) pages;
Exhibit	B	Service Order Authorization to Proceed,	consisting of one (1) page;
Exhibit	C	Service Provider Rate Schedule,	consisting of one (1) page;

The term shall begin upon receipt of an executed Agreement from the Trustees and shall end as of [Date], with the option given by the Trustees of extending the Agreement with the same items and conditions for two (2) additional (1) year periods. Work elements started during the term shall continue to their completion and acceptance by the Trustees.

The Service Provider shall not perform services in excess of the Agreement without prior written authorization to proceed from the Trustees.

Service Provider shall report to: California State University, Kevin J. Laut, Construction Manager, Capital Planning, Design and Construction, (562) 951-4994.

The basic services amount to be expended under this Agreement shall be determined by the overall usage of each participating campus and the administrative office of the California State University. Payment shall be made in accordance with Rider A, Exhibit A, Exhibit B, and Exhibit C.

Trustees of the California State University						Service Provider						
Campus California State University						Firm Name Service Provider, Inc.						
By (Trustees' Authorized Signature)						By (Authorized Signature)						
Printed Name and Title of Person Signing John Smith, Campus Representative						Printed Name and Title of Person Signing Jack Smith, Service Provider Authorized Signatory						
Address of Campus Project Administrator 99999 Lorem Ipsum Drive, Ipsum, CA 99999						Address of Service Provider 11111 Ipsum Lorem Drive, Lorem CA 11111						
SCO Acct	Fund	Sub Fund	Agency	Yr.	Ref/Item	Category	Program	Element	Component	Chapter	Fiscal Yr.	Legal Ref.
Data:	123456	123456	123456		123456	123456	123456	123456	123456	123456	123456	123456
Fund Name 123456			PS Account 123456	PS Fund 123456	PS Dept. ID 123456	PS Program 123456	PS Class 123456	PS Project/Grant 123456				
Amount Encumbered \$0.00		<i>I hereby certify upon my personal knowledge that budgeted funds are available for the period and purpose of the expenditures stated above.</i>										
Amount of Increase \$0.00		Signature of Accounting Officer										Date
Amount of Decrease \$0.00		<i>I hereby certify that I have examined the written Agreement and find the same to be in accordance with the requirements of California State University Contract Law. G. ANDREW JONES, General Counsel</i>										
Total Amount Encumbered \$0.00		By Attorney										Date

This Agreement may be executed in counterparts all of which taken together shall constitute one and the same Agreement. The exchange of copies of this Agreement by electronic mail in "portable document format" (".PDF") form or by other similar electronic means shall constitute effective execution and delivery of this Agreement and shall have the same effect as copies executed and delivered with original signatures.

SERVICE ORDERS

- 1) Identify need for services
- 2) Review the posted proposal and webcast videos to determine which service provider appears to be a best fit for the project
- 3) Contact the preferred service provider to ensure they have availability and coverage for the project
- 4) Coordinate with the service provider to define the following:
 - Project specific scope of services
 - Quality Level required
 - Specific Deliverables
 - Schedule
 - Cost structure
- 5) Campus to execute project specific Service Order within the parameters of the MEA Rider A, General Provisions and Exhibit C, Service Provider Rate Schedule

Make sure not to allow clarifications that contradict or exclude items in Rider A or rates in excess of the rate schedule

Agreement No. 123456
Service Provider

THE CALIFORNIA STATE UNIVERSITY
Exhibit B – Service Order and Authorization to Proceed,
Subsurface Utility Mapping Services

[Date]

Service Provider
Service Provider, Inc.
11111 Ipsum Lorem Drive
Lorem CA, 11111

Dear Service Provider:

[Project Name], [Project Number]
[Campus]
Service Order Authorization Number: [insert]

In accordance with the provisions of the Systemwide Master Enabling Agreement Number **1234567**, you are hereby authorized to Provide Subsurface Utility Mapping Services for the subject project to the quality levels described in Exhibit A, to the Quality Levels selected below:

[Quality Level D]
 [Quality Level C & D]
 [Quality Level B, C, & D]
 [Quality Level A, B, C, & D]

Per fee schedule,
 Hourly with a Not to Exceed limit of: _____.
 Fixed fee amount of: _____.

Service Provider shall report to:

[CSU Campus Name]
[Campus Department]
[Executive Facility Officer or designated campus Project Manager]
[Campus Address]
[Campus Project Manager's Phone Number, email]

The total amount to be expended under this Service Order shall not exceed **[written and numerical dollar value]** inclusive of reimbursables. To invoice, submit a single signed invoice per project. On each invoice identify the MEA Agreement Number and Service Order Authorization Number. Direct invoices to the project manager named above.

Questions regarding this authorization shall be directed to the above named project manager.

Approved: _____ Fund: _____
Fund Certified: _____

[Name]
[Campus Project Manager]

[Name]
[Campus Contracting / Procurement]

c: Campus Executive Facility Officer, Chancellor's Office Planner, File

Rev. 8/11/17

CSU Facilities Management Institute Capital Training Program

CM Jumpin' Jeopardy

Tuesday, August 14 – 10:00-11:30AM

McCarthy Building Companies - Subsurface Utility Mapping MEA Webcast

Monday, September 10 - 2:00-3:00PM

Other Upcoming Training, Time and Date TBD

- New & Improved Gordian Program Launch #1&2
- The Law of Design and Construction (Advanced)
- Owner Controlled Insurance Program (OCIP) – Program Updates

<https://csyou.calstate.edu/Employee-Resources/training/facilities-management-institute/Pages/default.aspx>

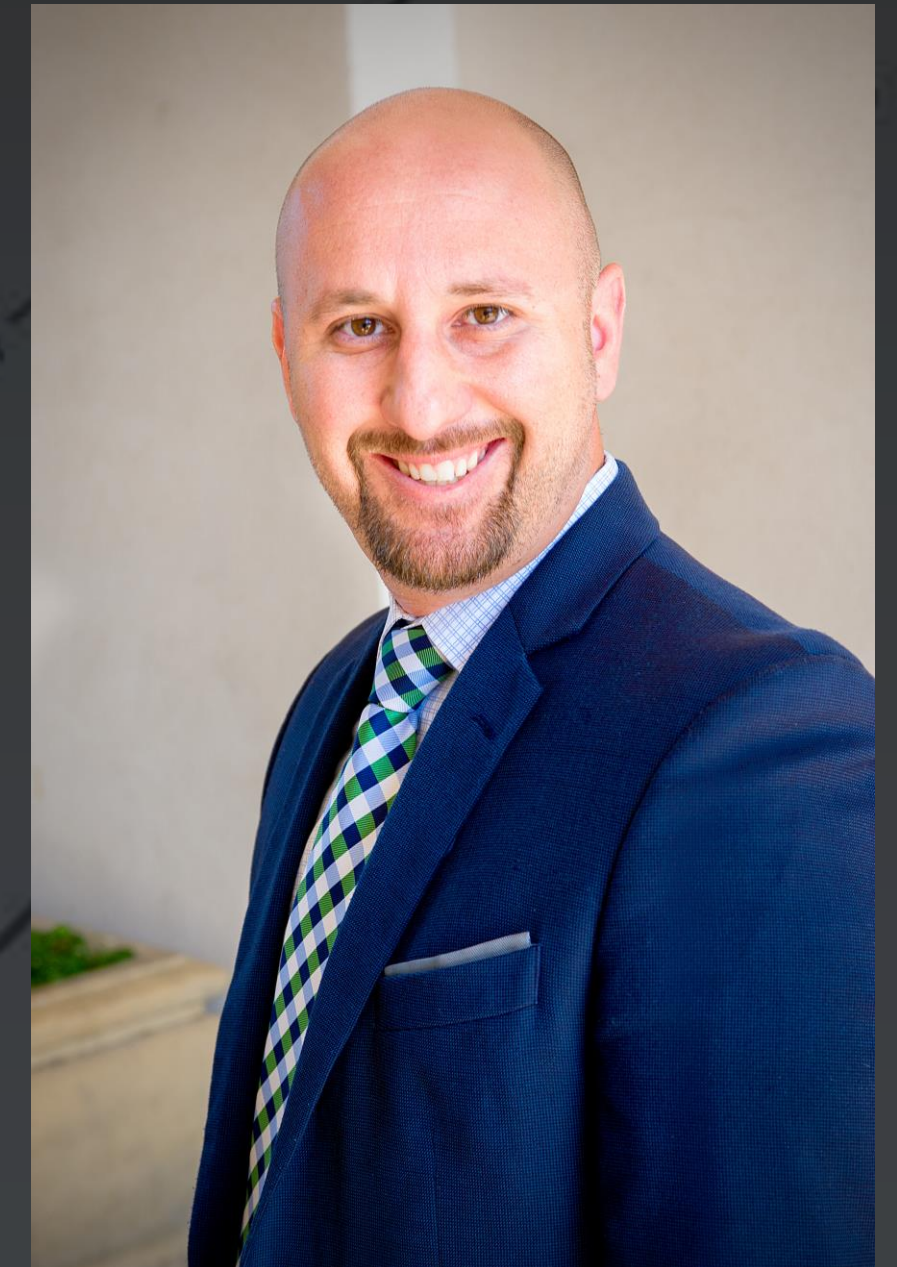


Chris Loera, CEO

Over 20 years of experience in construction industry. He plans, organizes, directs, and controls the activities of the team on a daily basis. He is also Co-Chair of the Laborers Training Trust that is responsible for training apprentice and journeymen locators

David Mintzer, BDM

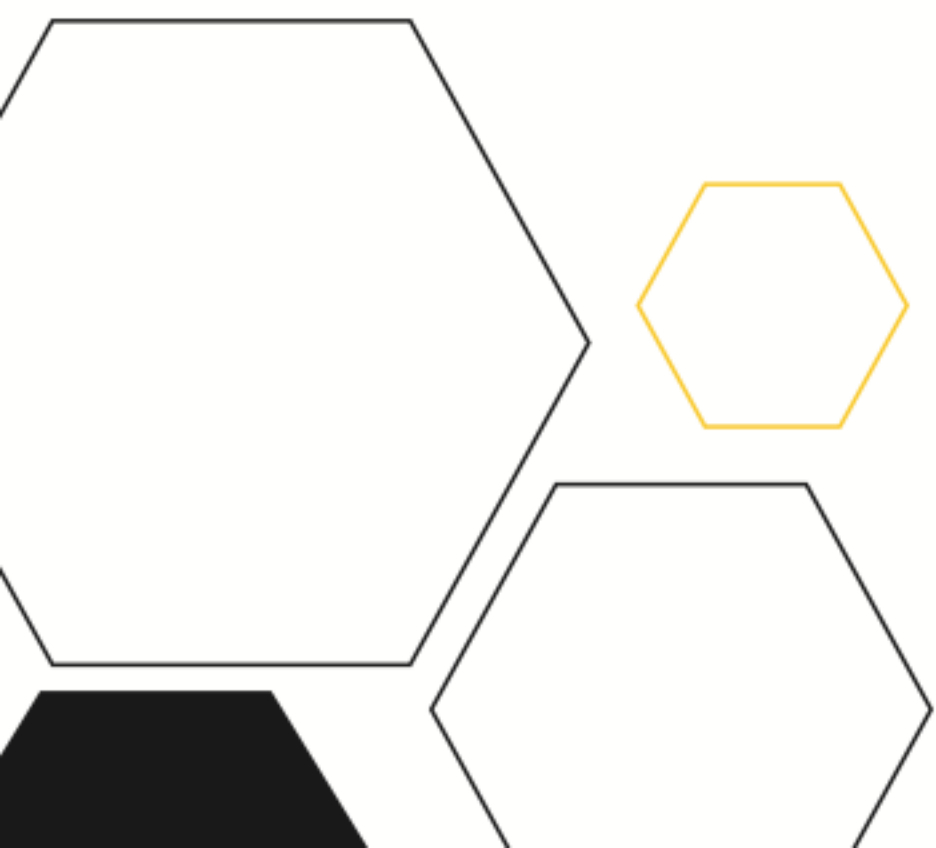
Handles new business pursuits, manages quotes, discusses scope and quality levels with clients, and coordinates between departments (sales, operations, dispatch).



PRESENTERS



BELOW
SUBSURFACE IMAGING





POLL QUESTIONS

- 1) Have you ever utilized utility locating services/investigations on any of your projects?
- 2) Have you ever worked on a project where the as-builts or record drawings had inconsistencies?



GONE WRONG
WATER LINE



founded in 2009.

It began with a small group of people who had experience in quality control, construction management, Utility Locating & GPR.

Responding to clients needs for trained technicians for other locating needs, C Below quickly added additional services such as CCTV, Mapping, and Potholing to it's list of services.

It became clear there was a need for a one stop shop in the construction industry

BRIEF HISTORY



VISION STATEMENT

To provide the Southwest Construction Industry with the tools to make safe, accurate decisions, while putting people first and always doing what is right.

MISSION STATEMENT

We accurately locate utilities to protect our clients and the general public.

We provide highly trained professionals and state of the art equipment to provide the best product possible.

We always do what is right in the eyes of our employees, our clients, and the general



CORE VALUES

WE ALWAYS

Do what is right

Work hard

Act and Look Professional

Strive to better ourselves, our company, and our community

Follow company procedures Assist our fellow team members when needed

Treat our clients with respect

Treat our team members with respect

Exceed expectations and are the best at what we do

WE NEVER gossip or spread ill will.





Locating
Supervisor
CCTV Supervisor
Potholing
Supervisor

Locating
Technician
CCTV Technician
Potholing
Technician

TECHNICIANS - 2 technicians, cross trained, experience troubleshooting
EQUIPMENT - locating crews come out with all necessary equipment
MAPPING - Typically follows completion of locating investigation
UNIFORMS & MARKED TRUCKS - trucks are marked and technicians wear uniforms

QUALITY SERVICE



Quality Levels

LEVEL A (POTHOLING) - IS THE HIGHEST LEVEL OF ACCURACY AND INVOLVES THE FULL USE OF THE SUBSURFACE UTILITY INVESTIGATION METHOD. IT PROVIDES INFORMATION FOR THE PRECISE PLAN AND PROFILE MAPPING OF UNDERGROUND UTILITIES THROUGH THE NONDESTRUCTIVE EXPOSURE OF UNDERGROUND UTILITIES, AND ALSO PROVIDES THE TYPE, SIZE, CONDITION, MATERIAL AND OTHER CHARACTERISTICS OF UNDERGROUND FEATURES.

LEVEL B (LOCATING INVESTIGATION) - INVOLVES THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND HORIZONTAL POSITION OF VIRTUALLY ALL UTILITIES WITHIN THE PROJECT LIMITS. IT ADDRESSES PROBLEMS CAUSED BY INACCURATE UTILITY RECORDS, ABANDONED OR UNRECORDED FACILITIES, AND LOST REFERENCES. DECISIONS REGARDING LOCATION OF STORM DRAINAGE SYSTEMS, FOOTERS, FOUNDATIONS AND OTHER DESIGN FEATURES CAN BE MADE TO SUCCESSFULLY AVOID CONFLICTS WITH EXISTING UTILITIES. SLIGHT ADJUSTMENTS IN DESIGN CAN PRODUCE SUBSTANTIAL COST SAVINGS BY ELIMINATING UTILITY RELOCATIONS.

LEVEL C - VISIBLE UTILITY FACILITIES (E.G., MANHOLES, VALVE BOXES, ETC.) AND CORRELATING THIS INFORMATION WITH EXISTING UTILITY RECORDS (QL-D INFORMATION). WHEN USING THIS INFORMATION, IT IS NOT UNUSUAL TO FIND THAT MANY UNDERGROUND UTILITIES HAVE BEEN EITHER OMITTED OR ERRONEOUSLY PLOTTED. ITS USEFULNESS, THEREFORE, IS PRIMARILY ON RURAL PROJECTS WHERE UTILITIES ARE NOT PREVALENT, OR ARE NOT TOO EXPENSIVE TO REPAIR OR RELOCATE.

LEVEL D - IS THE MOST BASIC LEVEL OF INFORMATION FOR UTILITY LOCATIONS. IT COMES SOLELY FROM EXISTING UTILITY RECORDS OR VERBAL RECOLLECTIONS, BOTH TYPICALLY UNRELIABLE SOURCES. IT MAY PROVIDE AN OVERALL "FEEL" FOR THE CONGESTION OF UTILITIES, BUT IS OFTEN HIGHLY LIMITED IN TERMS OF COMPREHENSIVENESS AND ACCURACY. QL-D IS USEFUL PRIMARILY FOR PROJECT PLANNING AND ROUTE SELECTION ACTIVITIES.

Utility Locating
Radiography
Potholing
Mapping
GPR



Date: January 2, 2017
Technician: Ramon Martinez
Project Name: Reclaimed Water Line Potholing
Project Address: Corona, CA 92881
C Below Project No. 17-0001

www.cbelow.com

1-888-90-BELOW

14280 Euclid Ave.
Chino, CA 91710

pothole report



14280 Euclid Ave
Chino, CA 91710
1-888-90-BELOW

Date: January 2, 2017
Technician: Ramon Martinez
Project Name: Reclaimed Water Line Potholing
Project Address: Corona, CA 92881
C Below Project No. 17-0001

Project Summary

No.	Utility	Size (in)	Material	Top Depth (ft)	Direction	Location	Surface
1	Reclaimed Water	8	PVC	4.80	N/S	North East of Old Temescal & Fullerton	Asphalt
2	Storm Drain	3 x 6	Concrete	4.00	EW	North East of Fullerton & Old Temescal	Asphalt
3	Gas	4	Poly	2.96	NWSE	North East of Old Temescal & Fullerton	Asphalt
4	Water	8	PVC	3.84	N/S	Westbound Old Temescal, East of Fullerton	Asphalt
5	Water	8	PVC	3.90	NW	North West Corner of Old Temescal Rd. & Turnberry Ln.	Asphalt
6	Gas	2	Poly	3.80	N/S	North East of Intersection of Old Temescal Rd. & Turnberry Ln	Asphalt
7	Comm	(1)4 (2)2	PVC	3.14 3.10	N/S	North East Corner of Turnberry & Old Temescal	Asphalt
7.1	Storm Drain	82	Concrete	4.80	N/A	North East Corner of Turnberry & Old Temescal	Asphalt

Dipped MH Summary

No.	Utility	Size (in)	Material	Top Depth (ft)	Flow Direction	Location	Surface
MH 1	Storm Drain	72 84	Concrete	6.16 5.16	W->E	North East of Turnberry & Old Temescal	N/A
MH 2	Storm Drain	84	Concrete	4.40	W->E	Harvard Circle and Old Temescal	N/A
MH 3	Storm Drain	96	Concrete	7.76	W->E	North West of Cecilia & Old Temescal	N/A
MH 4	Storm Drain	96	Concrete	7.52	W->E	On Old temescal Between Cecilia & California	N/A
MH 5	Storm Drain	96 120	Concrete	5.60 3.60	W->E	South of Address 1353 Old Temescal	N/A

Comments: Top depth is measured from ground surface to top of utility. Potholes were performed at locations specified by the client. Utility size and material are based on visual estimates and may vary.



Technician Name Ramon Martinez		Date 01/02/2017	C Below Project No. 17-0001
Project Name Reclaimed Water Line Potholing		Project Address Corona, CA 92881	
Client Company C Below		Contact Tiffany Kurimay	
Pothole No. 1	Location North East of Old Temescal & Fullerton		

Surface Type: Profile View (not to scale)

Thickness: (feet) Measured Distance from Finished Surface

Top: (feet)

Bottom: (feet)

Size: (in)

Utility:

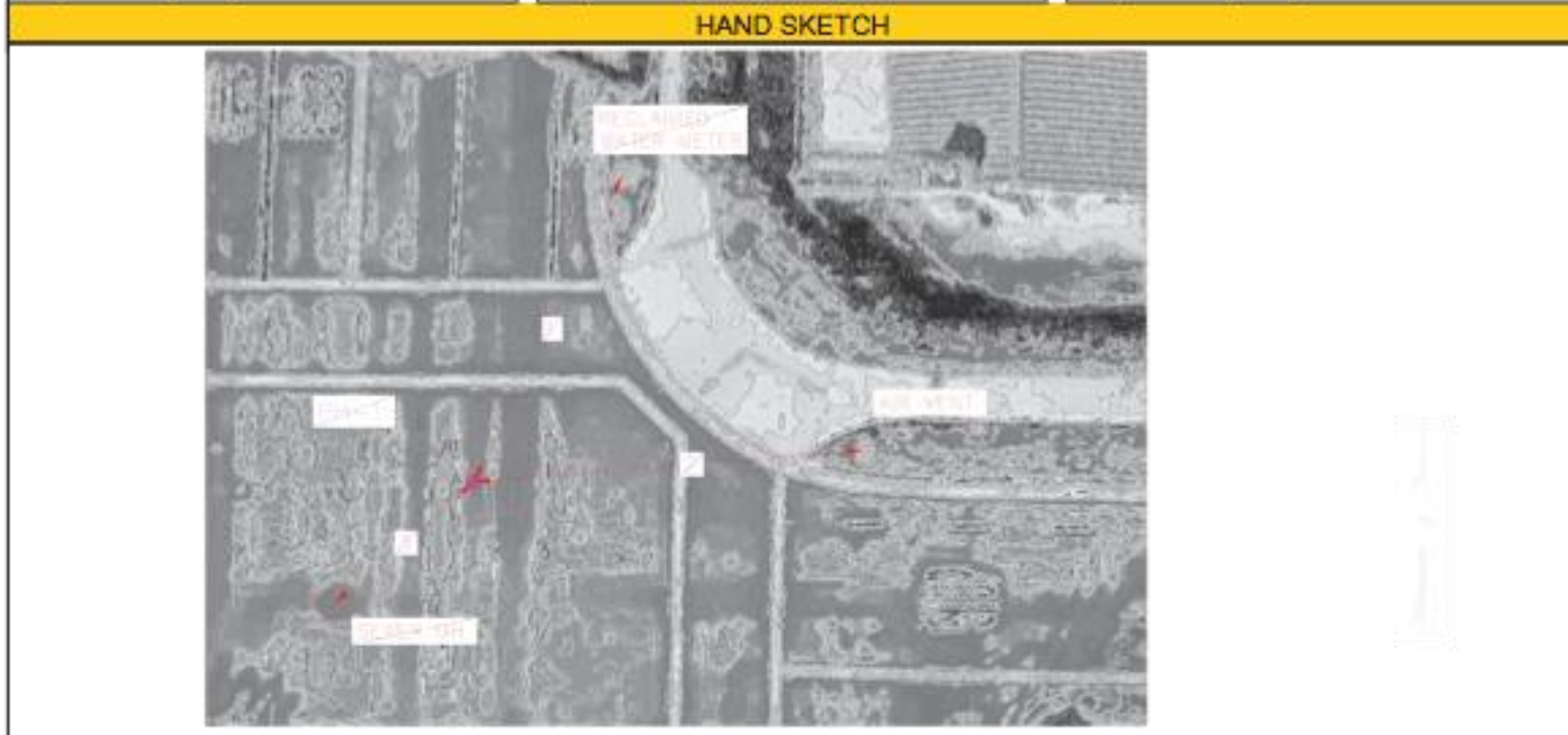
Material:

Direction:

Notes:

- Per USA marks, High Pressure Gas also runs with 8" reclaimed water.

PHYSICAL SWING TIE INFORMATION											
No.	Distance (ft)	Dir.	From Permanent Existing Fixture	No.	Distance (ft)	Dir.	From Permanent Existing Fixture	No.	Distance (ft)	Dir.	From Permanent Existing Fixture
1	37.40	SW	Reclaimed Water Meter	2	42.90	SW	Air Vent	3	20.40	NE	Sewer MH



No.	Utility	Size (in)	Material	Top Depth (ft)	Direction	Location	Surface
1	Reclaimed Water	8	PVC	4.80	N/S	North East of Old Temescal & Fullerton	Asphalt



Photo 1



Photo 2



Photo 3



Photo 4

Comments:



Utility Locating
Radiography
Pothing
Mapping
GPR



Date:
Technician:
Project Name:
Project Address:
C Below Project No.:

REPORT SUMMARY

No. ¹	Utility	Material	Total Video Length (ft)	Pipe Size (in) ²	Line Condition
SCO 1	Sewer	PVC	256.70	4	Start of sitting water at 5.60 ft. Line filled with 20% capacity of water at 10.50 ft. Camera under water at 28.10 ft. unable to inspect line. End of sitting water at 36.10 ft. Start of sitting water at 47.60 ft. Siting water at 73.20 ft. Camera under water at 109.40 ft. unable to investigate line. Sitting debris on line at 204.10 ft. Line drops at 256.70 ft. into SMH 4 unable to push past the acute angle.
SCO 2	Sewer	Steel	38.00	4	Line drops at 5.30 ft., Line drops at 38.00 ft. into SMH 7.
SCO 3 East	Sewer	PVC	223.20	6	Line turns left at 71.20 ft. SCO 3.1 lateral on right at 74.80 ft with left turn on line. SCO 3.2 lateral from above at 223.90 ft. line will be continue from 3.0 clean out.
SCO 3.2 North	Sewer	PVC	258.50	6	Clean out SCO 3.3 from above at 154.00 ft. Line drops SCO 3.4 at 258.50 ft.
SCO 3.4	Sewer	PVC	11.70	6	Lateral on right at SCO 3.4 drop to main. Debris and sitting water at entry point. Line is under SMH 7 at 11.70 ft.
SCO 5 South	Sewer	Steel	47.00	4	Line bends left at 18.60 ft. SCO 5 South drops into SMH 8 at 47.00 ft.
SCO6 North	Sewer	PVC	17.40	6	Minimum debris at bottom of line.
SCO6 South West	Sewer	PVC	135.40	4	Line turns left at 39.20 ft. Line into SCO 6.1 drop at 43.30 ft. SCO 6.2 from above at 103.50 ft. Line drops at 106.10 ft. Unable to push past 135.40 ft. will push from SCO 6.2.
SCO 7 South	Sewer	Steel	62.00	4	Debris at entry point. Line drops at 40.40 ft. Debris at 59.70 ft. Line drops into possible septic tank at 59.70 ft.
SCO 8	Sewer	Possible PVC	31.80	6	Line under water throughout. Unable to push past 31.80 ft.
SCO 10.1 East	Sewer	Steel	372.70	4	Line turns right at 20.60 ft. Line turns right at 26.50 ft. SCO 10.2 from above at 41.60 ft. Line turns left at 41.90 ft. Lateral form top right at 52.10 ft. with right turn on line. Material changes from steel to PVC at 83.70 ft. Lateral from above at 92.90 ft. Line under water at 133.50 ft. with debris in line. SCO 10.3 lateral on left with right turn on line at 172.00 ft. Material change from PVC to Steel at 325.30 ft. SCO 10.4 on left at 327.70 ft. Unable to push past

¹See schematic for video insertion points.

²Estimated pipe sizes are based on visual observations made during video inspection and may vary.

No.	Utility	Material	Total Video Length (ft)	Pipe Size (in) ²	Line Condition
SCO 10.1 East	Sewer	Steel	372.70	4	Line turns right at 20.60 ft. Line turns right at 26.50 ft. SCO 10.2 from above at 41.60 ft.



Entry point overview



Entry point overview



Typical clear line condition



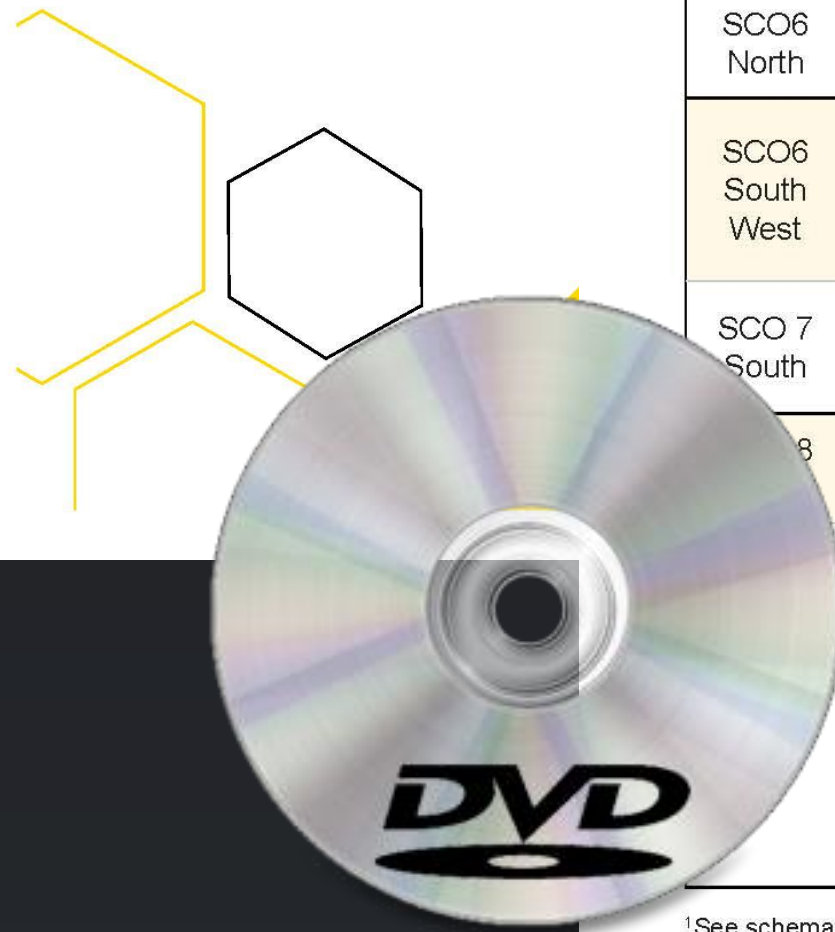
Line turns right at 20.60 ft.



Line turns right at 26.50 ft.



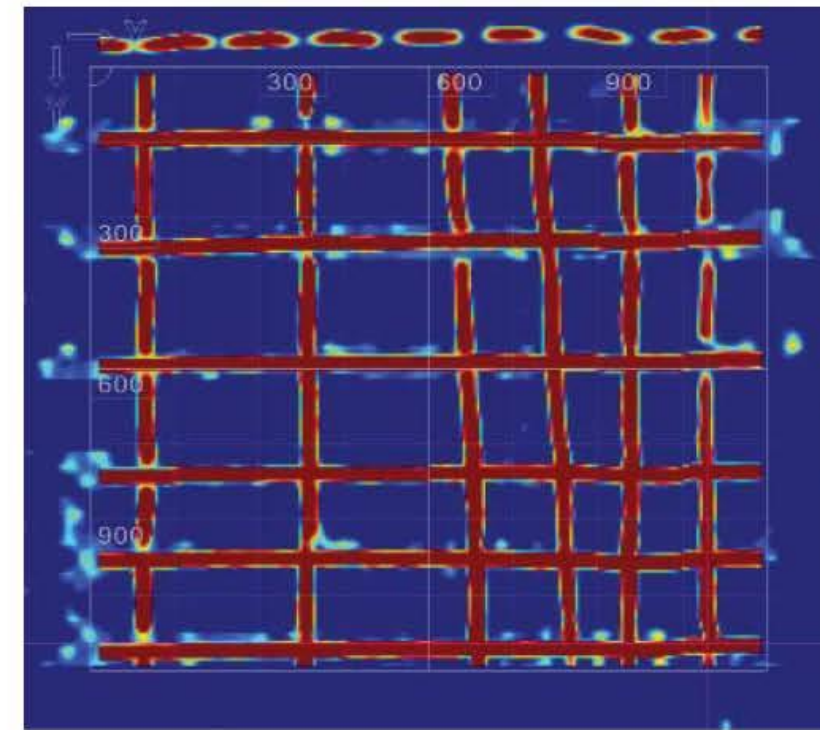
SCO 10.2 from above at 41.60 ft.



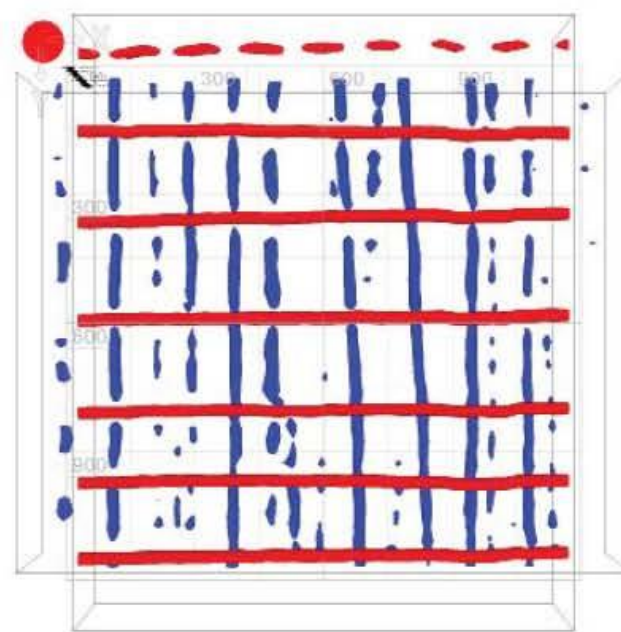
No.	Grid Size	Spacing X Direction (Blue)	Layers X Direction	Spacing Y Direction (Red)	Layers Y Direction	Notes
14	48x48"	6-12"	1	6-12"	1	Single layers noted in each direction. May cause shadowing of layers below.



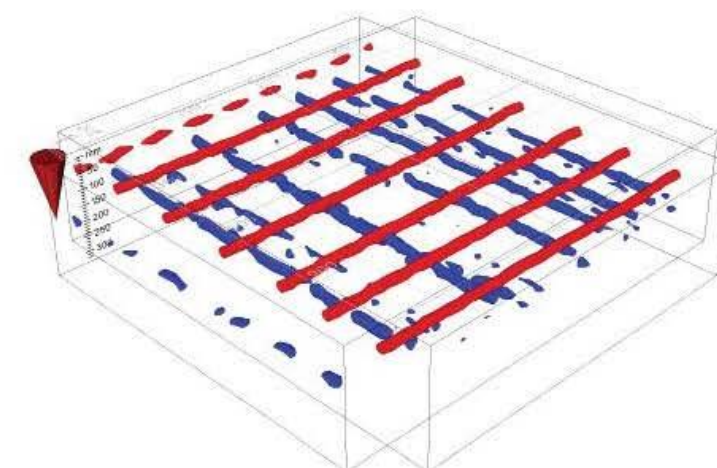
Field Location



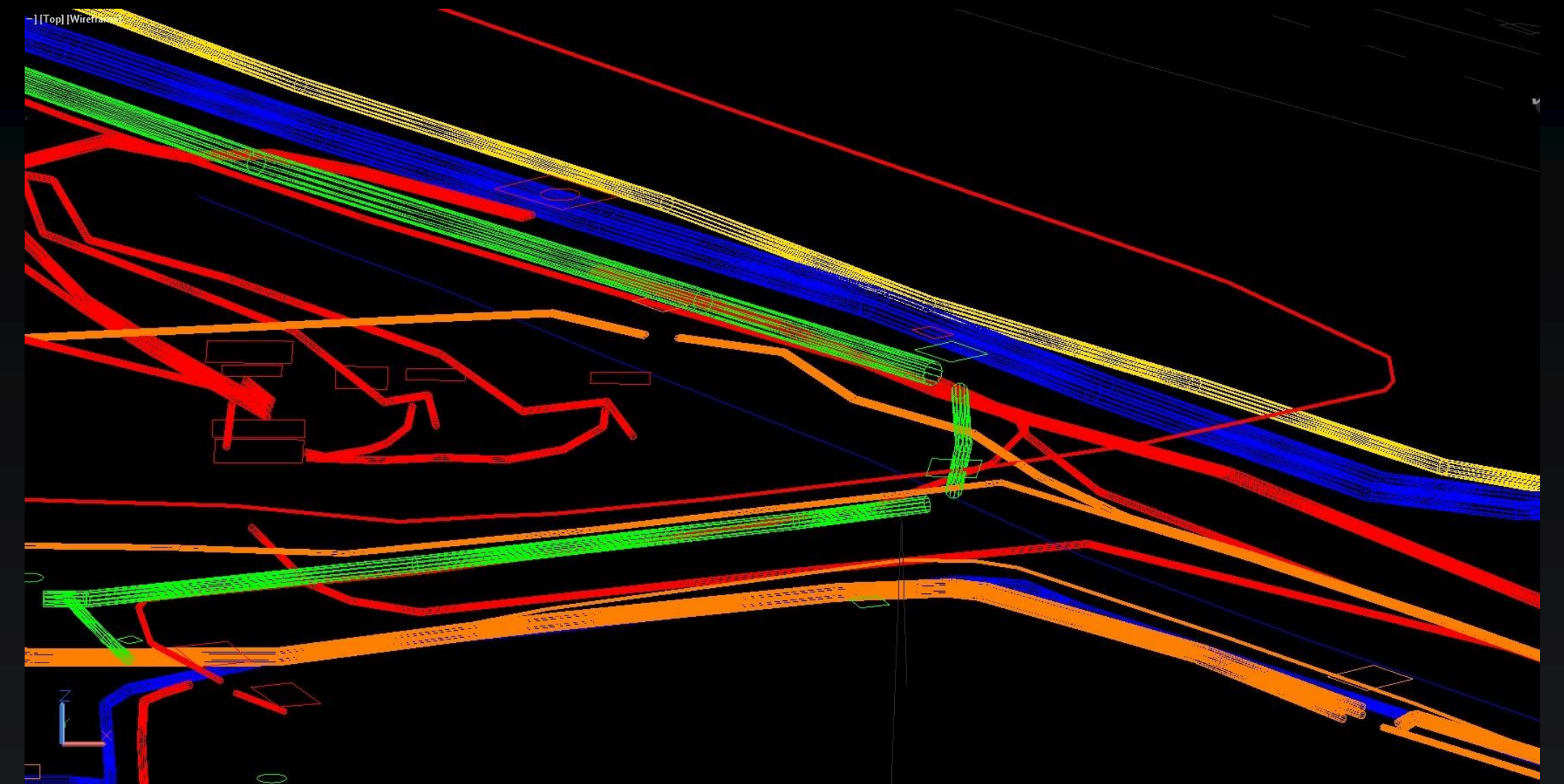
2D Scan



3D Top View



3D Diagonal Front/Left

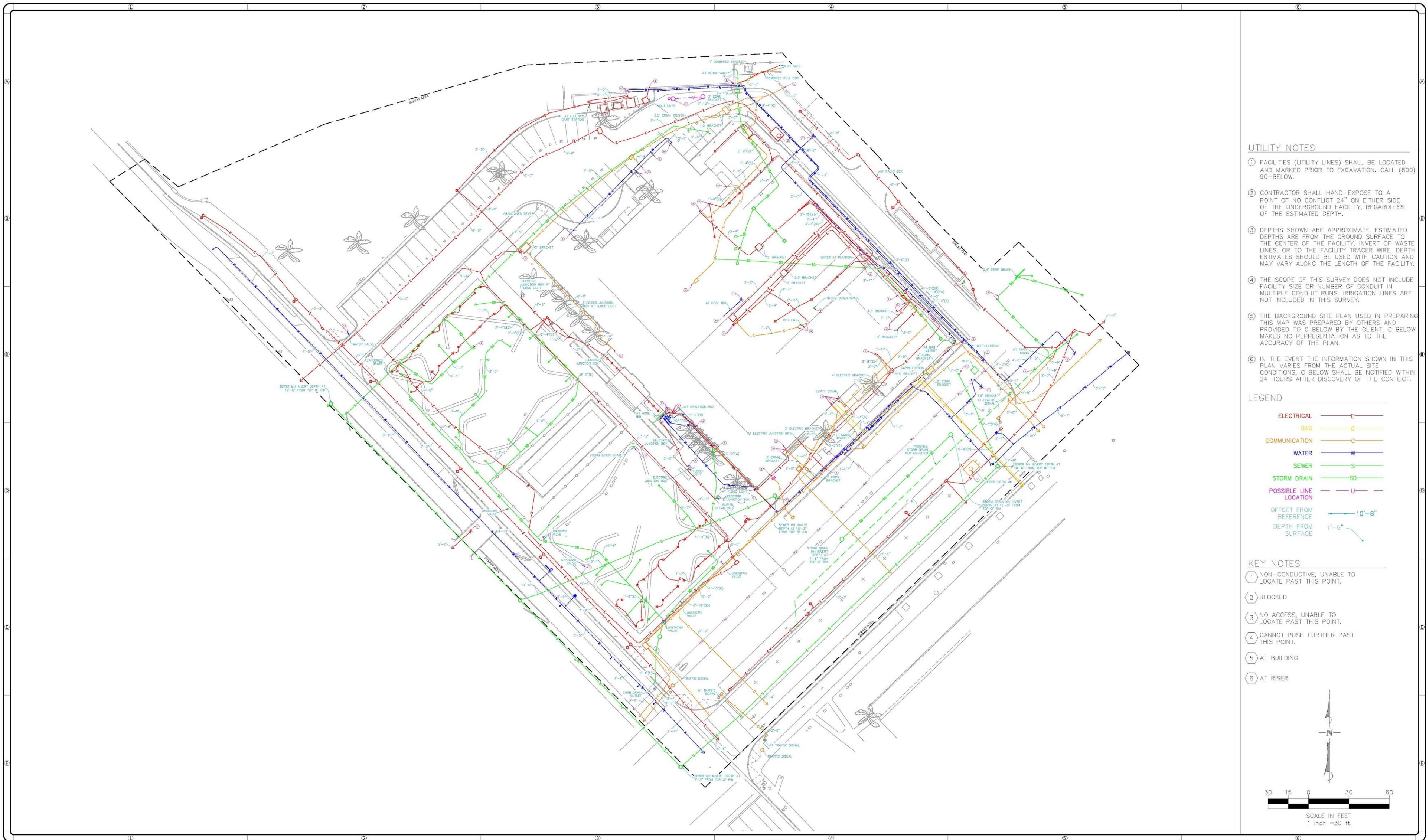


3D MAPPING



HANDHELD GPR 3D SCANNING





UTILITY NOTES

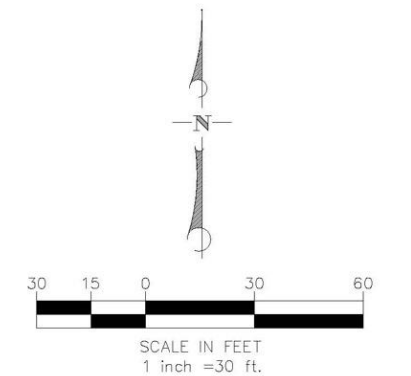
- ① FACILITIES (UTILITY LINES) SHALL BE LOCATED AND MARKED PRIOR TO EXCAVATION. CALL (800) 90-BELOW.
- ② CONTRACTOR SHALL HAND-EXPOSE TO A POINT OF NO CONFLICT 24" ON EITHER SIDE OF THE UNDERGROUND FACILITY, REGARDLESS OF THE ESTIMATED DEPTH.
- ③ DEPTHS SHOWN ARE APPROXIMATE. ESTIMATED DEPTHS ARE FROM THE GROUND SURFACE TO THE CENTER OF THE FACILITY, INVERT OF WASTE LINES, OR TO THE FACILITY TRACER WIRE. DEPTH ESTIMATES SHOULD BE USED WITH CAUTION AND MAY VARY ALONG THE LENGTH OF THE FACILITY.
- ④ THE SCOPE OF THIS SURVEY DOES NOT INCLUDE FACILITY SIZE OR NUMBER OF CONDUIT IN MULTIPLE CONDUIT RUNS. IRRIGATION LINES ARE NOT INCLUDED IN THIS SURVEY.
- ⑤ THE BACKGROUND SITE PLAN USED IN PREPARING THIS MAP WAS PREPARED BY OTHERS AND PROVIDED TO C BELOW BY THE CLIENT. C BELOW MAKES NO REPRESENTATION AS TO THE ACCURACY OF THE PLAN.
- ⑥ IN THE EVENT THE INFORMATION SHOWN IN THIS PLAN VARIES FROM THE ACTUAL SITE CONDITIONS, C BELOW SHALL BE NOTIFIED WITHIN 24 HOURS AFTER DISCOVERY OF THE CONFLICT.


LEGEND

- ELECTRICAL — E —
- GAS — G —
- COMMUNICATION — C —
- WATER — W —
- SEWER — S —
- STORM DRAIN — SD —
- POSSIBLE LINE LOCATION — U —
- OFFSET FROM REFERENCE — 10'-8" —
- DEPTH FROM SURFACE — 1'-6" —

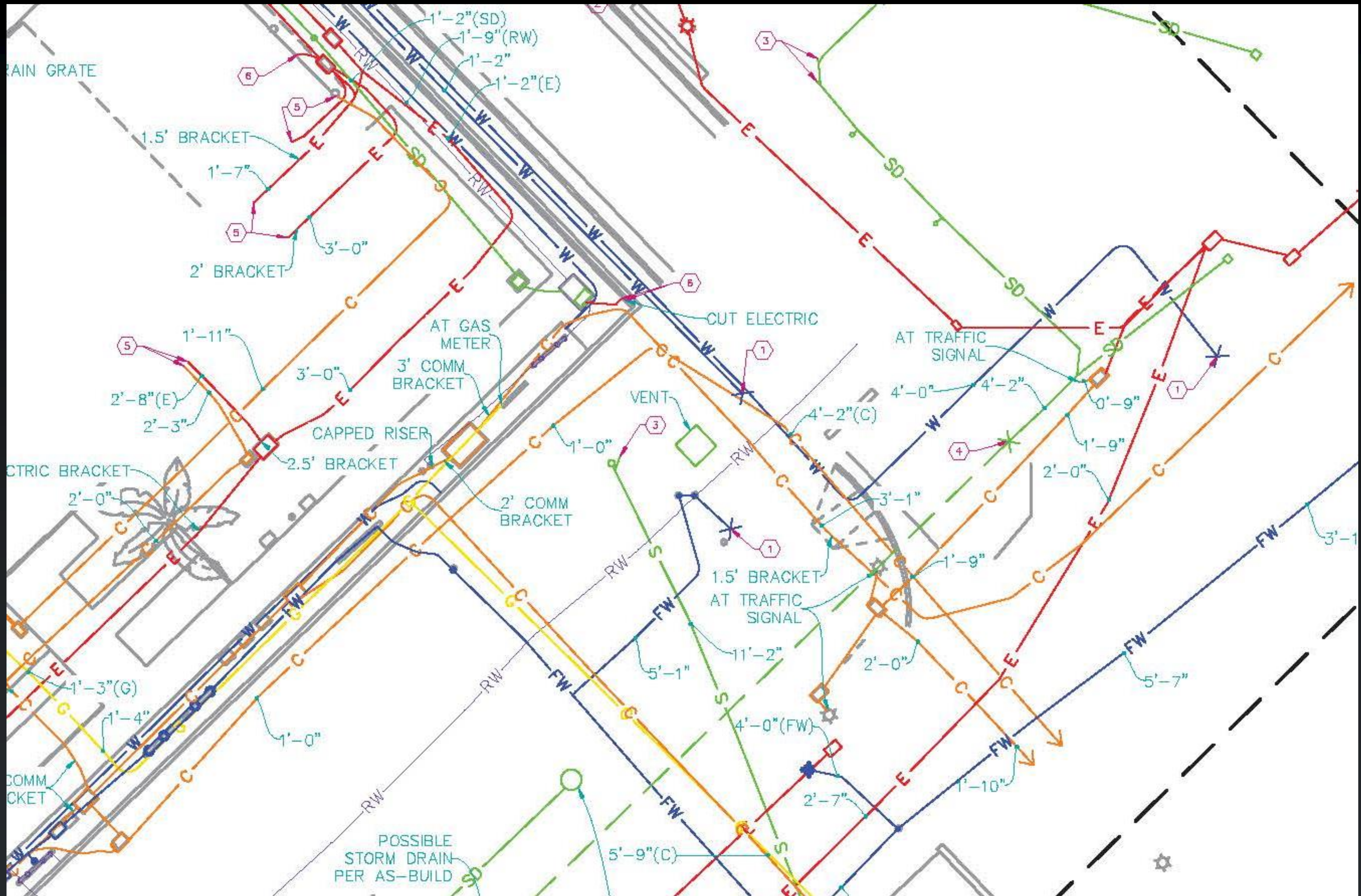
KEY NOTES

- ① NON-CONDUCTIVE, UNABLE TO LOCATE PAST THIS POINT.
- ② BLOCKED
- ③ NO ACCESS, UNABLE TO LOCATE PAST THIS POINT.
- ④ CANNOT PUSH FURTHER PAST THIS POINT.
- ⑤ AT BUILDING
- ⑥ AT RISER



	<p>C BELOW SUBSURFACE IMAGING 14280 EUCLID AVE CHINO, CA 91710</p> <p>P: 888-902-3569 F: 909-606-6555 www.cbelow.com</p>	<p>NOTES: The services provided by C Below, Inc. do not relieve the Client and/or property owner of the responsibility of having to comply with California Government Code §54216-4216.9. It is expressly understood by the Client and/or owner that CBSI services are not a substitute for compliance with California Code §54216-4216.9.</p>	<p>PROJECT: PARTIAL UNDERGROUND UTILITY MAP FOR: CITY OF SOMEWHERE 1234 MAIN ST. SOMEWHERE, CA 00000</p>	<p>CLIENT: C BELOW SUBSURFACE IMAGING 14280 EUCLID AVE. CHINO, CA 91710</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">REVISIONS</th> </tr> <tr> <th>NO</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS				NO	DATE	BY	DESCRIPTION													<p>DATE LOCATED: 11/2015 DRAWN BY/DATE: JP 11/09/2015 TECHNICIAN CHECK BY/DATE: JP 11/12/2015 QC CHECKED BY/DATE: JP 11/12/2015 SCALE: 1" = 30' PROJECT NO: 00-0000</p> <p style="text-align: right;">SHEET 1 OF 1</p>
REVISIONS																										
NO	DATE	BY	DESCRIPTION																							





ADDITIONAL SERVICES



TRAFFIC CONTROL & PLANS

CITY / COUNTY / CALTRANS PERMITTING

HANDHELD GPR | LOCATE REBAR / PT

ADDITIONAL SURVEY CAPABILITIES



SCHOOLS WHERE SERVICES WERE PERFORMED

COMMUNITY COLLEGES

Long Beach City College
Santa Ana College
Fullerton College
Glendale Community College
San Bernardino Valley College
Cerritos College
Orange Coast College

PRIVATE COLLEGES

Pierce College
Chaffey College
California Baptist University
Biola University
Pepperdine University
University of Southern California



CA UNIVERSITIES

UC Los Angeles (UCLA)
UC Riverside (UCR)
UC Irvine (UCI)
CSULA, CSUF, CSUDH, CSULB, CSUSB
San Diego State University
Cal Poly Pomona

SCHOOL DISTRICTS

Torrance USD
William Hart USD
Moreno Valley USD
Chino Valley USD
Riverside USD
Pomona USD
Pasadena USD
Newport Mesa USD

Norwalk- La Mirada
USD
Redondo Beach USD
Long Beach USD
Los Angeles USD
Alhambra USD
Centinella Valley USD
Santa Ana USD
Garden Grove USD

CSU DOMINGUEZ HILLS



College of Business Administration and Public Policy

Locating, Mapping & Potholing
9 days Locating, 4 days Mapping, 20+ Potholes

Science & Innovation Building (Ongoing Project)

Locating, Mapping, & Potholing
3 days Locating, 1 day Mapping, 20 + Potholes

Student Housing Phase III

Locating & Mapping
3 days Locating, 2 days Mapping

Domestic Water & Fire Replacement

Locating & Mapping
5 day Locating, 3 days Mapping

MULTIPLE PROJECTS

CLIENTS: CSUDH, C.W. DRIVER, PCL



CSU LONG BEACH



MSX Utility Infrastructure Utility Investigation
Locating & Mapping
Over 30 days Locating, 12 days Mapping

Athletic Soccer & Softball Locker Room
Locating & Mapping
2.5 days Locating, 1 day Mapping

Track & Field Bleacher Improvement Project
Utility Locating
1/2 day Locating

PH2 Parking Lot E17 Utility Investigation
Locating & Mapping
1 day Locating, 1/2 day Mapping

MULTIPLE PROJECTS

CLIENTS: CSULB, SWINERTON BUILDERS, C.W. DRIVER



CALIFORNIA STATE UNIVERSITY - ADDITIONAL PROJECTS



CSU FULLERTON



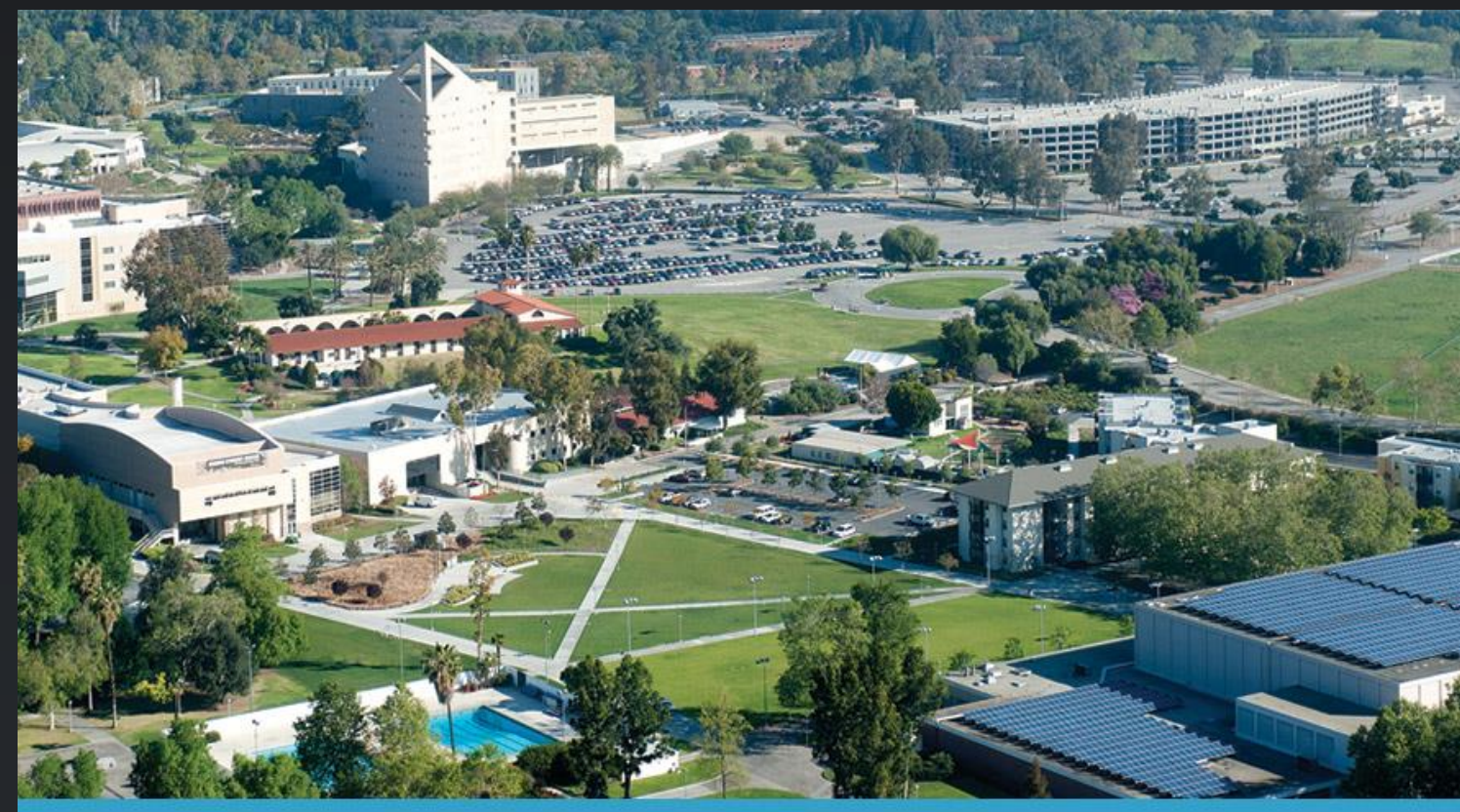
CSU LOS ANGELES



CSU SAN BERNARDINO



SAN DIEGO STATE UNIVERSITY



CAL POLY POMONA



CSU NORTHRIDGE



BEFORE THE JOB

Contact C Below

BDM

Confirm Scope & Exhibit

C Below provides a quote

CSU to provide Service Order

CSU sends CAD background file

Project assigned to

operations for scheduling

PROJECT MANAGEMENT

Regular Communication with CSU staff

Manages the schedule and workflow

Coordinate with onsite contact re access
(e.g. keys to electrical rooms)

Technician reports sent daily



Quality Control Review

Deliverables Sent: Map, Report, DVD

HOW TO WORK WITH US | WHAT TO EXPECT





David Mintzer
Business Development Manager

Ground Penetrating Radar
CCTV Pipe Inspection
Utility Locating
Potholing
Mapping



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CONTACT INFORMATION



POLL QUESTION

Based on the information shared, how many projects are coming up in the next 12 months on your campus where utility locating services would be useful?

Question & Answers