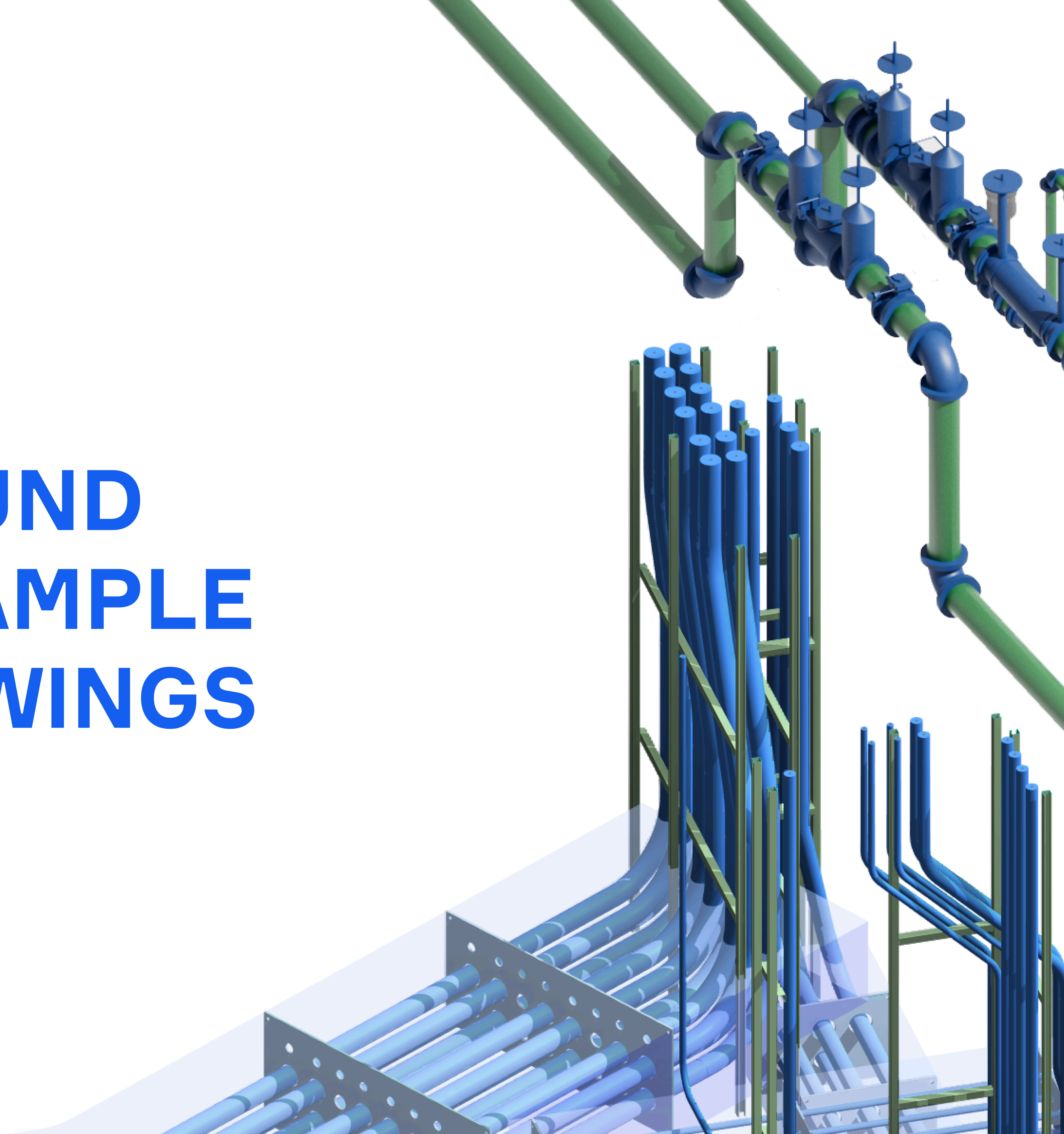




CIVIL UNDERGROUND UTILITIES SAMPLE SET OF DRAWINGS

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WHAT IS INSIDE?

- Dry Underground Ductbank Layout
- UG Ductbank Layout
- UG Trench Card Layout
- UG Underslab Layout
- UG Sanitary Sewer Submittal
- UG Storm Drain Submittal Drawing
- UG Fire Loop Submittal Drawing
- UG Fire Loop Layout
- UG Retaining Wall Exhibit Vs GEO Grid
- UG Retaining Wall Storm & Electrical Profiles
- UG Water Line Coordinated Profiles
- UG Fire Water Line Coordinated Profiles
- UG Submittal Drawing
- UG Open/Closed Rfis Tray Boms
- UG Added Bends Exhibit
- UG Ejector Pit ISO
- UG Ejector Pit Sections
- UG Roof Drain Exhibit
- UG Trenching Exhibit



San Francisco (HQ)
201 Spear Street
Suite 1750
San Francisco, California

DRY UNDERGROUND DUCTBANK LAYOUT



VIRTUAL ENGINEERING AND
CONSTRUCTION

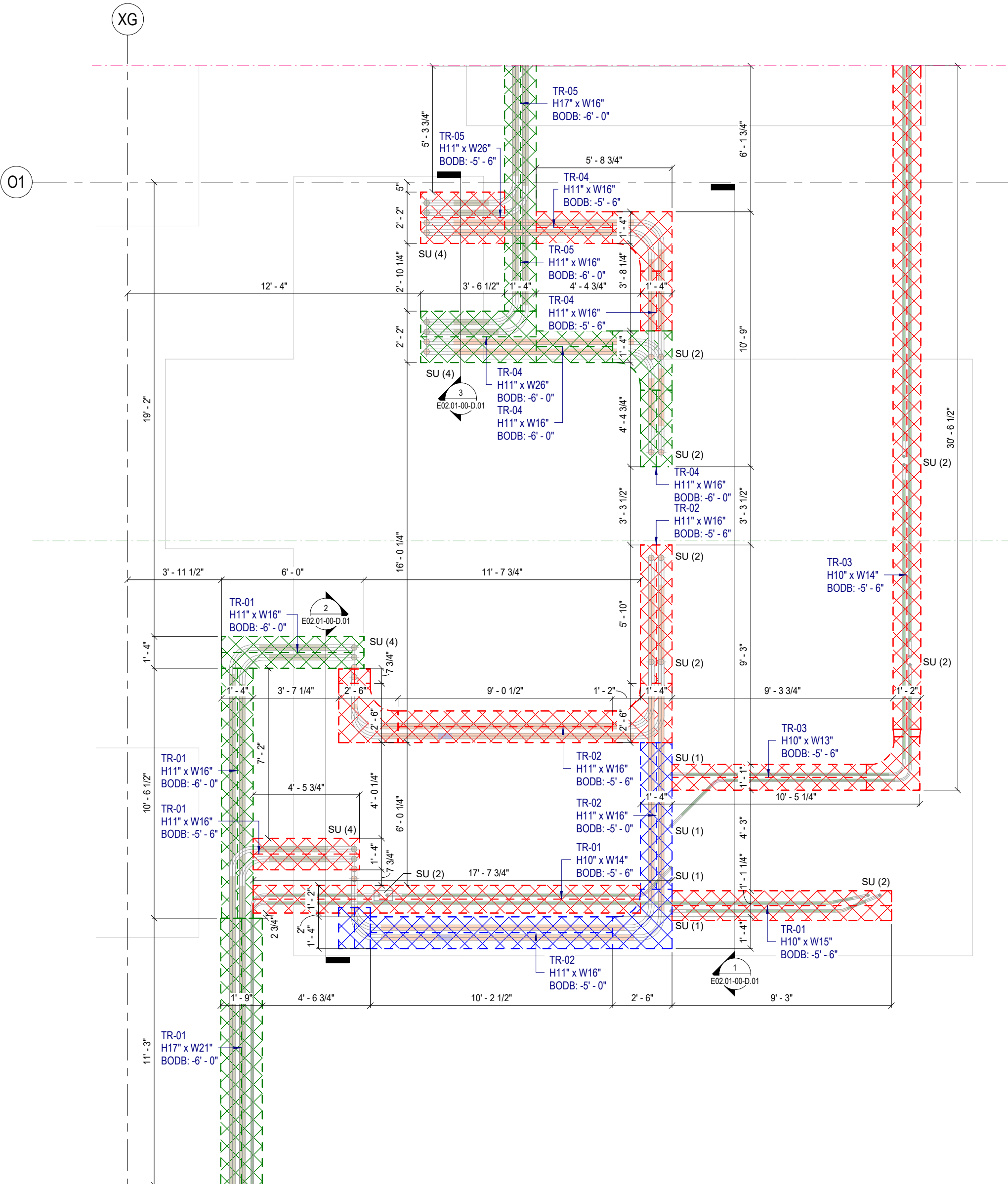
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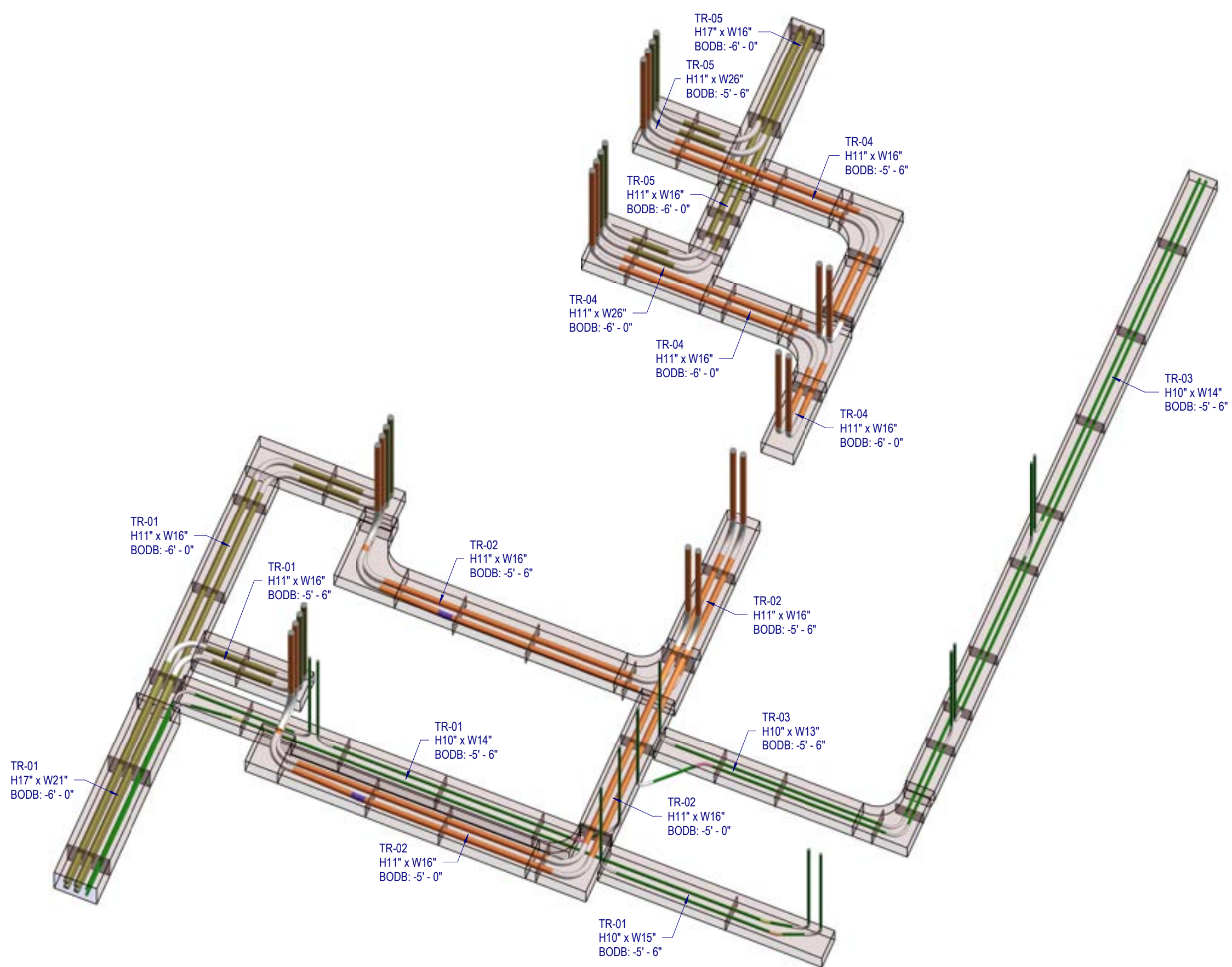
CONSULTANTS

STAMP

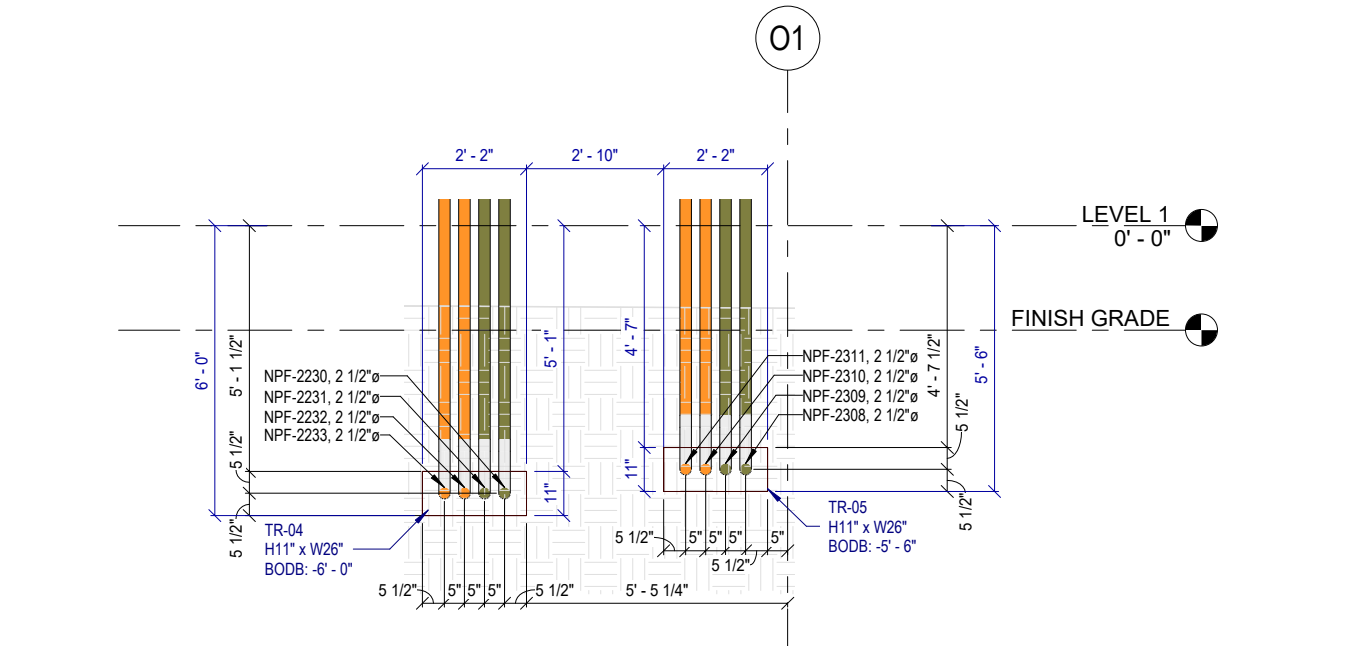
KEY PLAN



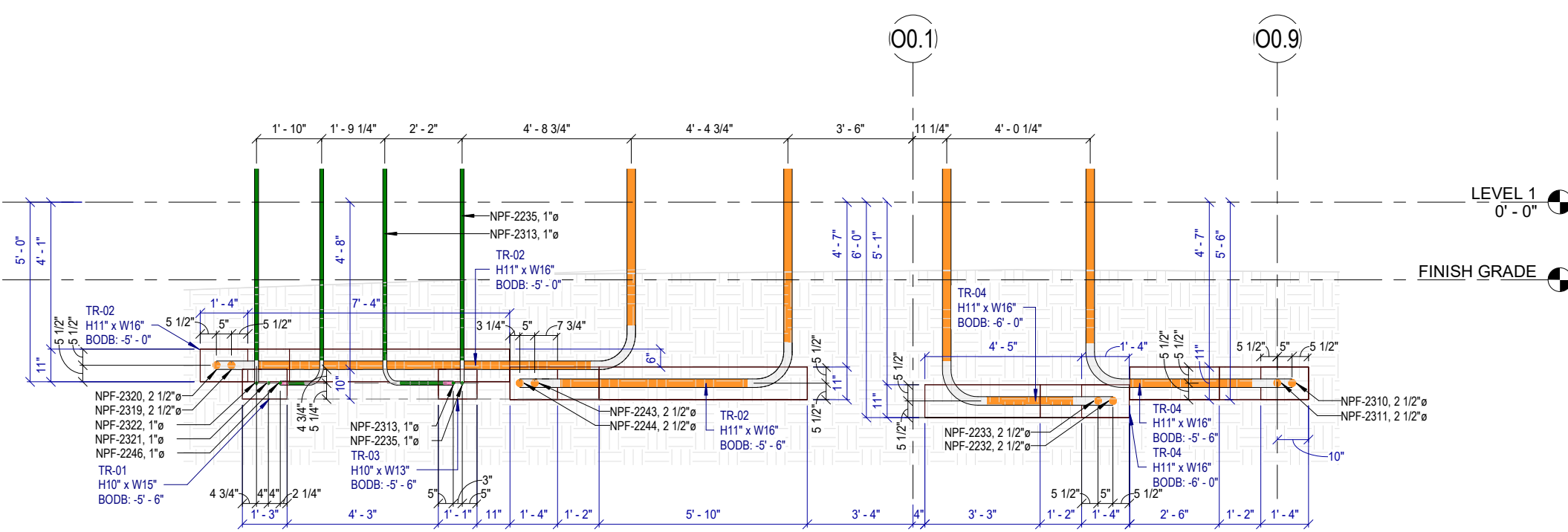
① UNDERGROUND LAYOUT - BUILDING 01 - AREA D



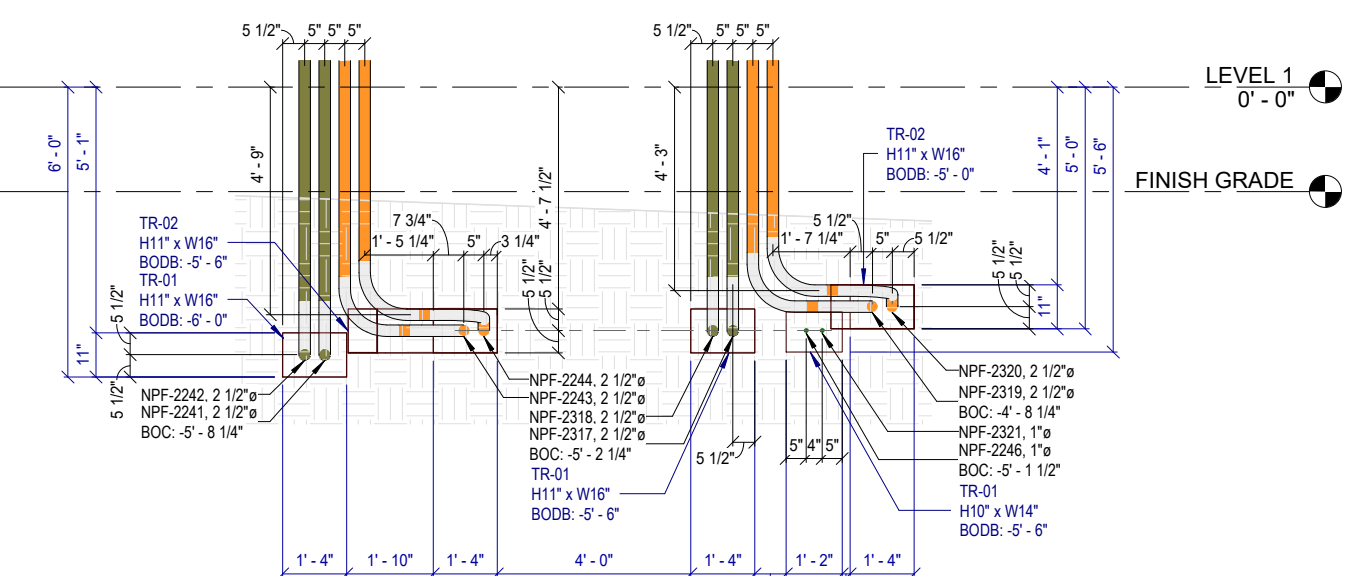
④ 3D - UNDERGROUND LAYOUT - BUILDING 01 - AREA D



③ UNDERGROUND LAYOUT - BLD 01 - AREA D - SECTION 3



① UNDERGROUND LAYOUT - BLD 01 - AREA D - SECTION 1



② UNDERGROUND LAYOUT - BLD 01 - AREA D - SECTION 2

UG CONDUIT BEND SCHEDULE - BLD 01 - AREA D				
BEND TYPE	SIZE	BEND ANGLE	COUNT	
PVC	1"ø-1"ø	22.50°	1	
PVC	1"ø-1"ø	30.00°	1	
PVC	1"ø-1"ø	45.00°	2	
PVC	1"ø-1"ø	90.00°	18	
PVC	2 1/2"ø-2 1/2"ø	90.00°	44	

UG CONDUIT SCHEDULE - BLD 01 - AREA D			
CONDUIT TYPE	SIZE	LENGTH (EXCLUDING BENDS)	
PVC	1 1/2"ø	37'-0"	
PVC	1"ø	542'-2"	
PVC	2 1/2"ø	907'-0"	

DUCT BANK CUBIC FEET - BLD 01 - AREA D	
DUCTBANK ID	ROUGH CUBIC FT.
TR-01	1047.62 SF
TR-02	143.43 SF
TR-03	178.38 SF
TR-04	84.90 SF
TR-05	95.90 SF

BOTTOM OF DUCT BANK COLOR LEGEND

	BOCB - 5'-0"
	BOCB - 5'-6"
	BOCB - 6'-0"

CONDUIT COLOR LEGEND BY SYSTEM

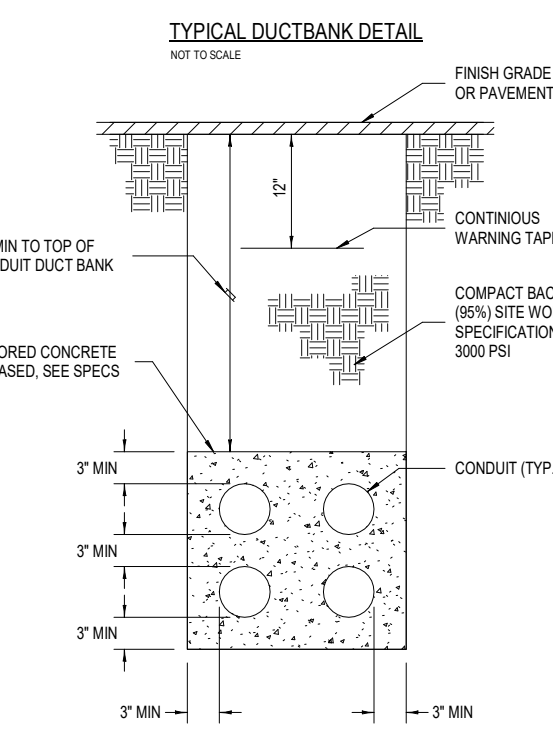
	NORMAL LIGHTING
	POWER CONTROL
	POWER

CONDUIT BEND COLOR LEGEND

	5° BEND
	11.25° BEND
	15° BEND
	22.50° BEND
	30° BEND
	45° BEND
	90° BEND
	NON-STANDARD BEND

ABBREVIATION	
BOC	BOTTOM OF CONDUIT
BOCB	BOTTOM OF DUCT BANK
FFL	FINISHED FLOOR LEVEL
H	HEIGHT OF DUCT BANK
W	WIDTH OF DUCT BANK

GENERAL NOTES:
1. ALL DIMENSIONS ARE IN FEET-INCHES.
2. ALL ELEVATION IN PLAN AND SECTION VIEWS ARE TAKEN FROM FFL.
3. DISTANCE FROM THE EDGE OF CONDUIT TO THE EDGE OF THE DUCT BANK 3" MIN.



NO.	DESCRIPTION	DATE	CHK	DRW
1	ISSUE FOR REVIEW	12/16/24		

SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: As indicated

CLIENT NAME:

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

UNDERGROUND LAYOUT -
BUILDING 01 - AREA D

SHEET NUMBER:

E02.01-00-D.01

UG DUCTBANK LAYOUT



201 Spear Street, Suite 1750
San Francisco, CA 94105

DATE	05/22/23
REVISION	
DESCRIPTION	
ISSUED FOR CONSTRUCTION	
1	

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

LEGEND:

LEGEND

DUCT BANK
DUCT BANK WITH SLOPE

CONDUIT AND BOX COLOR
LEGEND BY SYSTEM

POWER
LIGHTING
FIRE ALARM
SECURITY
TEMP POWER
GROUNDING
TELECOM
RADIO REPEATER
COMMUNICATION CONTROL

CONDUIT BEND
COLOR LEGEND

0-10° BEND (UNDERGROUND ONLY)
11.25° BEND
15° BEND
22.50° BEND
30° BEND
45° BEND
NON-STANDARD BEND

GENERAL NOTES:

- ALL DIMENSIONS ARE IN FEET-INCHES.
- ALL ELEVATIONS IN PLAN AND SECTION VIEW ARE FROM FFL (SEA LEVEL).
- GRIDS V.1-V.12 ARE USED ONLY FOR DUCT BANKS PLACING AND MUST BE PLACED MANUALLY.
- LOCATION OF VAULTS TO BE FIELD COORDINATE. TYP. 3' DISTANCE FROM OUTER EDGE OF REBAR REINFORCEMENT TO EDGE OF THE DUCT BANK PER EM1153.
- ANY DUCTBANK FROM BUILDING TO MANHOLE = START SLOPE 20' FROM MANHOLE 1/4" EVERY 10'

SHEET NOTES:

- CONDUITS CC-009FP910-FB1 AND CC-009FACU-FB2 WERE MOVED FROM DUCT BANK BA/BC/BE TO DUCT BANK BA.1 REFER TO SECTION 8
- PER RF1 1644, FOR DUCTBANKS CROSSING BELOW PILE SUPPORTED SLABS, EXPANSION JOINT LOCATIONS SHALL BE FIELD COORDINATED TO BE INSTALLED BETWEEN HANGAR SUPPORTS TO ACCOMMODATE CONDUIT BENDS AND FITTINGS

ABBREVIATION	
B.O.C	BOTTOM OF CONDUIT
B.O.B	BOTTOM OF DUCT BANK
FFL	FINISHED FLOOR LEVEL
H	HEIGHT OF DUCT BANK
W	WIDTH OF DUCT BANK

TRENCH SCHEDULE

Mark	Volume, CY	Area, SF	Width	Depth	Length
TR-1	69.63	470.0	40 1/2"	48"	139' - 2"
TR-2	82.57	405.3	26"	66"	187' - 1"

DUCT BANK SCHEDULE

Mark	Duct Bank Volume, CY	Concrete Volume, CY	Width	Depth	Length	Bottom of Duct Bank
DB-1	34.81	27.67	40 1/2"	24"	139' - 2"	-4' - 0"
DB-2	26.50	21.79	26"	21"	188' - 8 3/4"	-5' - 6"

Concrete, CY

49.45

Total Backfill Space, CY

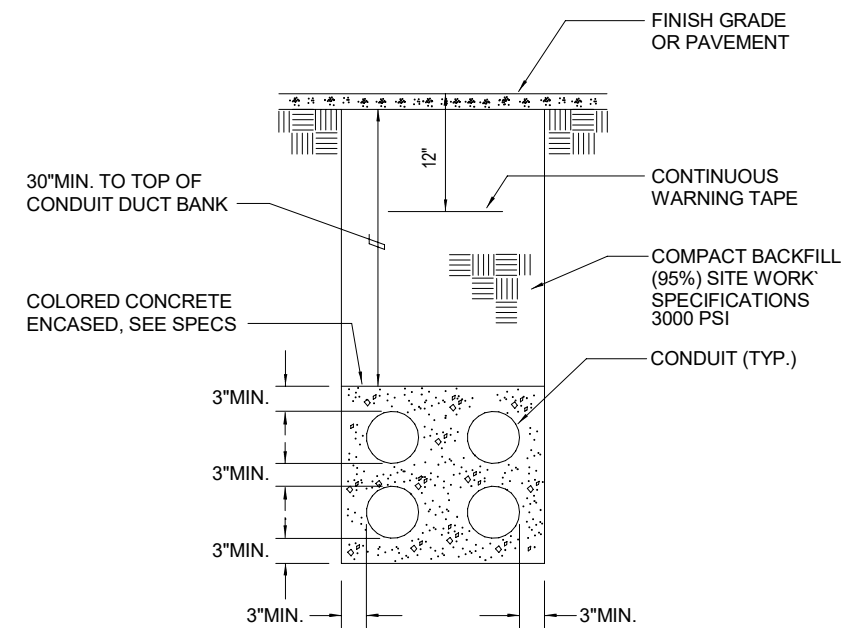
90.89

Dry Sand Backfill, CY

24.31

Dry Sand Backfill, Tons

32.82



2 TYPICAL DUCTBANK DETAIL

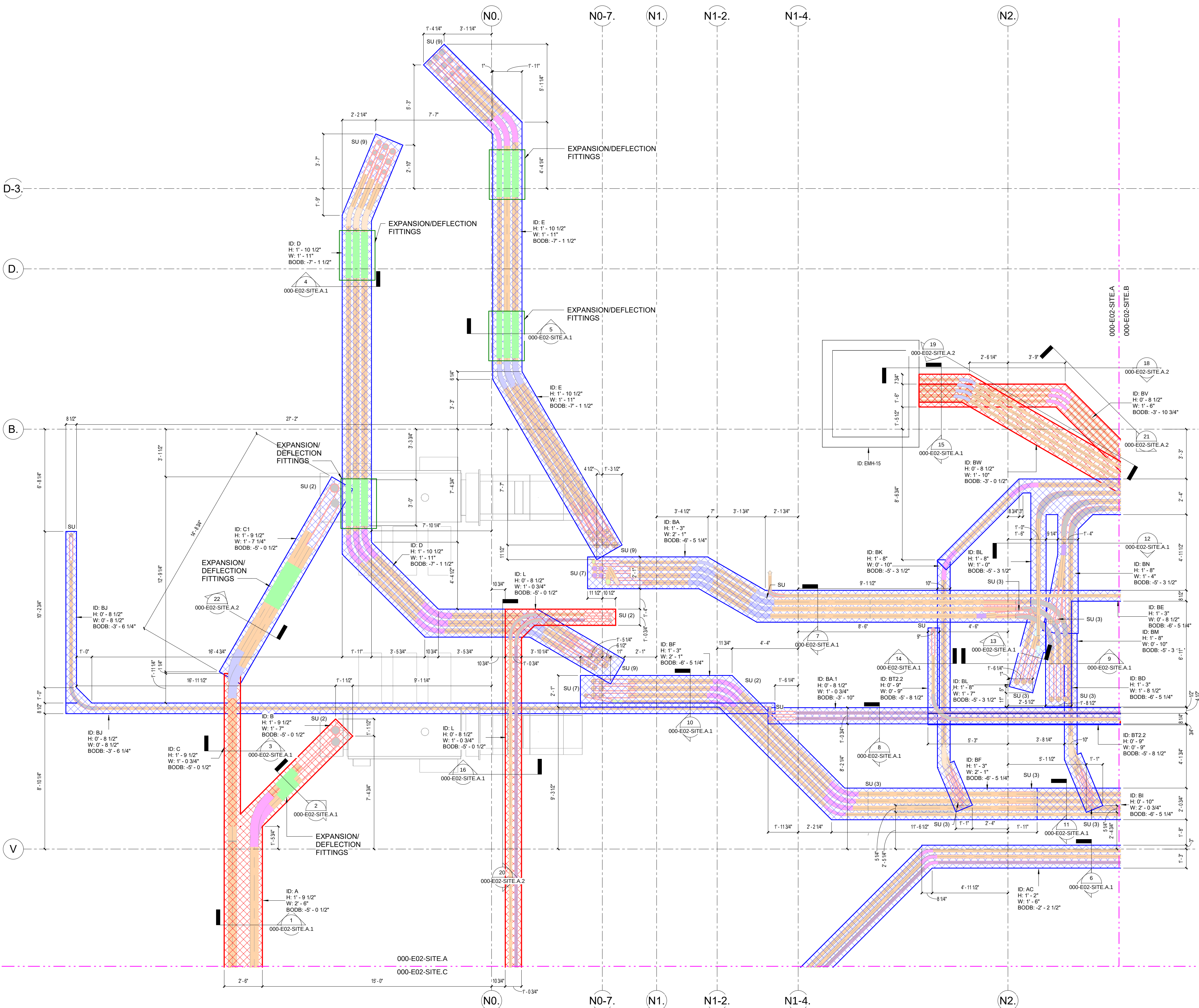
SCALE: NOT TO SCALE

NOTES FROM SPECIFICATIONS

2.1 MATERIALS

- General:
 - Backfill materials will be subject to approval of the Engineer.
 - For approval of backfill fill material, notify the Geotechnical Engineer of Record at least 7 days in advance of intention to import material.
 - Consideration shall also be given to the environmental characteristics as well as the corrosion potential of backfill materials. Laboratory testing, including pH, soluble sulfates, chlorides, and resistivity shall be reviewed. Backfill materials shall not be more corrosive than the native materials.
 - All imported materials, including pipe bedding shall have a pH between 6 and 8.

- Place minimum 3 inches of sand as a bed for duct. Place sand to a minimum of 6 inches above top level of duct.



1 DUCT BANK LAYOUT - SITE - AREA A

UG DUCTBANK LAYOUT

DRAWING NUMBER: E02-00-01

UG TRENCH CARD LAYOUT



201 Spear Street, Suite 1750
San Francisco, CA 94105

DATE	05/22/23
REVISION	1
DESCRIPTION	ISSUED FOR CONSTRUCTION

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

LEGEND:

GENERAL NOTES

LEVEL 01 ELEVATION OF 00' - 00"
IS TAKEN AS A REFERENCE FOR:

BOTTOM OF CONDUIT (BOC),
BOTTOM OF DUCT BANK (BODB),
BOTTOM OF TRENCH (BOT).

COLOR LINE LEGEND

4' - 0" SPACE AROUND DUCT BANK

DUCT BANK TAG

BOT: -X' - XX" - BOTTOM OF TRENCH
DB SIZE: W"xH" - DUCT BANK SIZE

TRENCH CARD TAG

T-XX
NUMBER
TRENCH CARD

OPENING SIZE TAG

(X) XX"
SIZE
COUNT

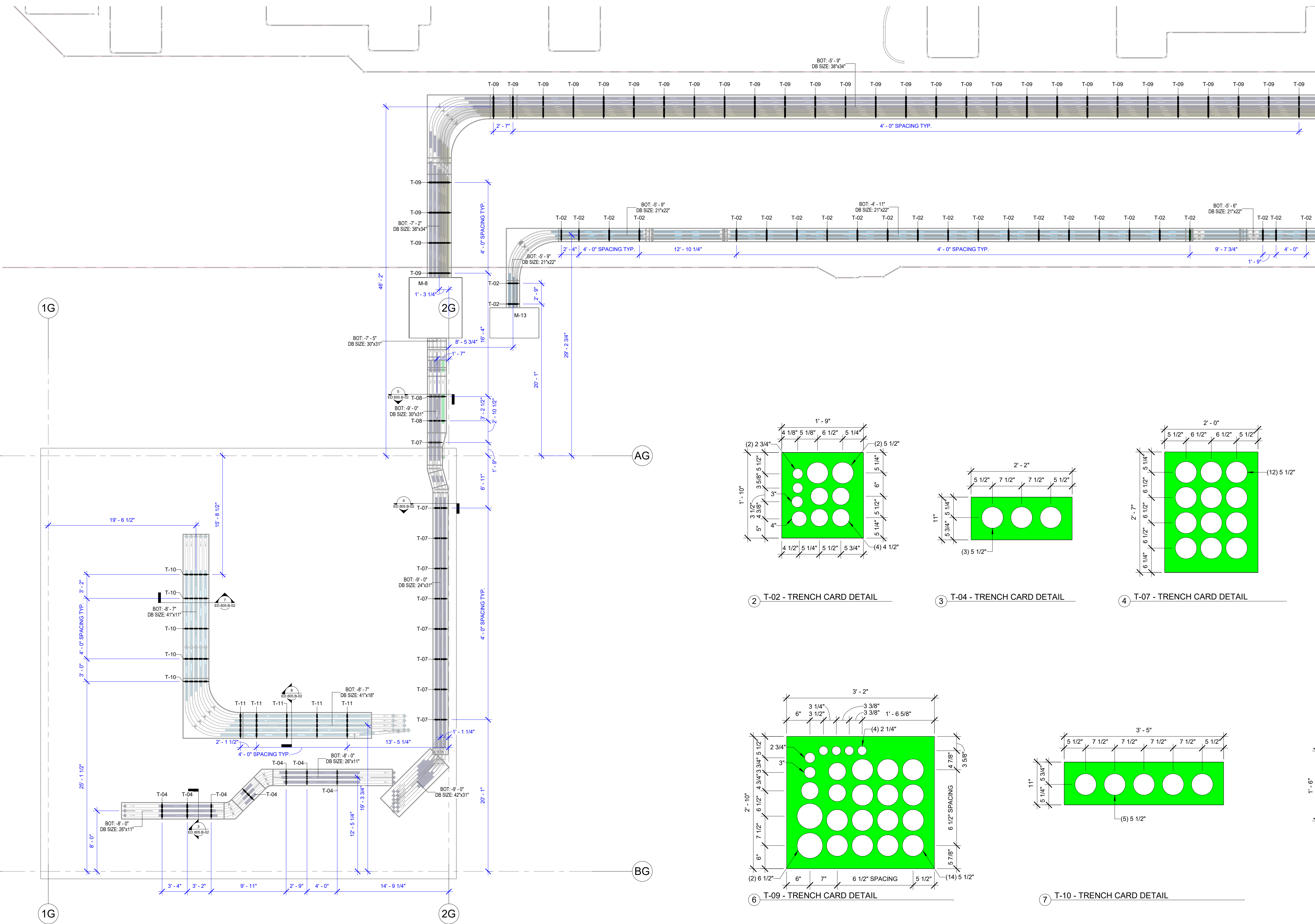
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KEY PLAN:

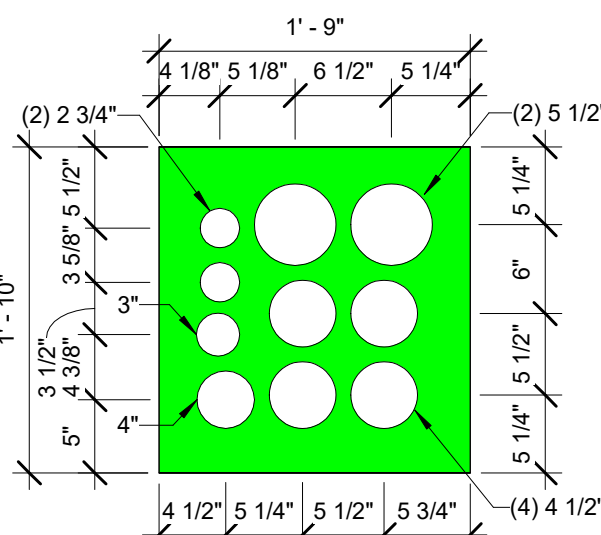
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ISSUED FOR:
DATE: 5/23/2023 3:12:38 PM
DRAWN BY: Author
CHECKED BY: Checker
DRAWING SCALE: As indicated
SHEET TITLE:

UG TRENCH CARD LAYOUT

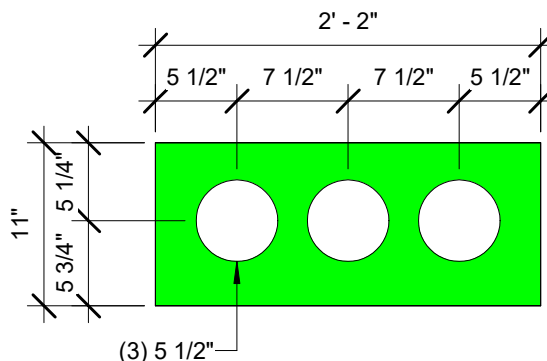
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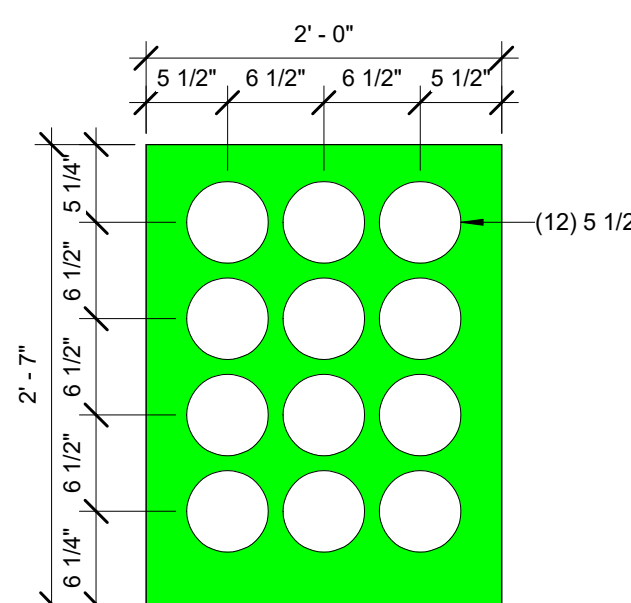
UNDERGROUND TRENCH CARDS SCHEDULE			
TAG ID	HEIGHT	WIDTH	COUNT
T-01	0' - 9"	1' - 2"	67
T-02	1' - 10"	1' - 9"	63
T-03	0' - 9"	2' - 1"	12
T-04	0' - 11"	2' - 2"	7
T-05	1' - 0"	2' - 3"	13
T-07	2' - 7"	2' - 0"	9
T-08	2' - 7"	2' - 6"	2
T-09	2' - 10"	3' - 2"	73
T-09A	2' - 10"	3' - 2"	1
T-10	0' - 11"	3' - 5"	5
T-11	1' - 6"	3' - 5"	5
T-12	0' - 11"	4' - 0"	3
T-13	1' - 0"	4' - 7"	7
T-14	0' - 9"	4' - 10"	1
T-15	0' - 11"	4' - 10"	17
T-17	0' - 11"	5' - 5"	26
T-18	1' - 9"	5' - 9"	13
T-19	0' - 11"	5' - 11"	5



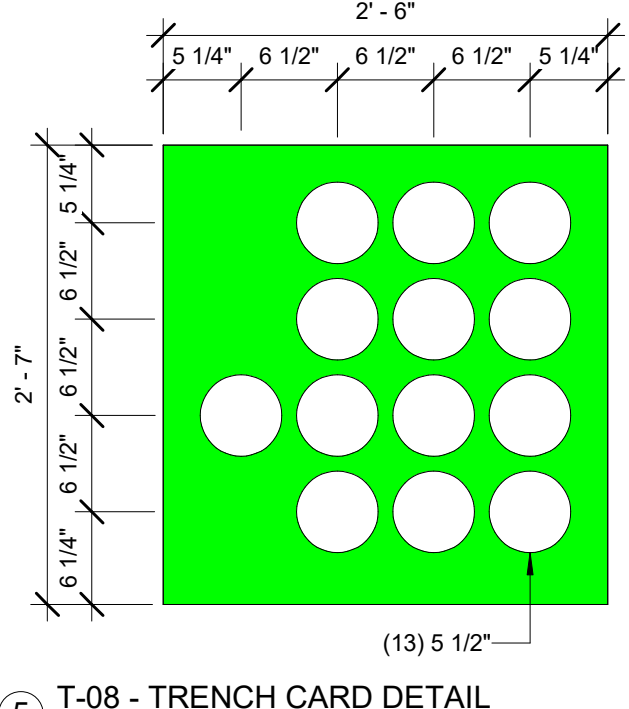
2 T-02 - TRENCH CARD DETAIL



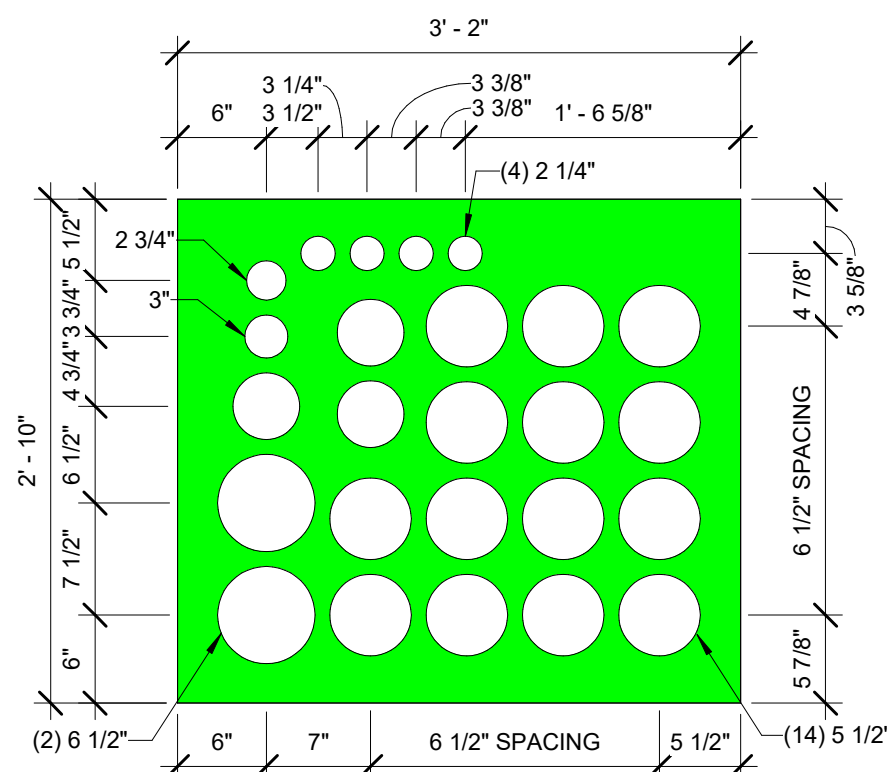
3 T-04 - TRENCH CARD DETAIL



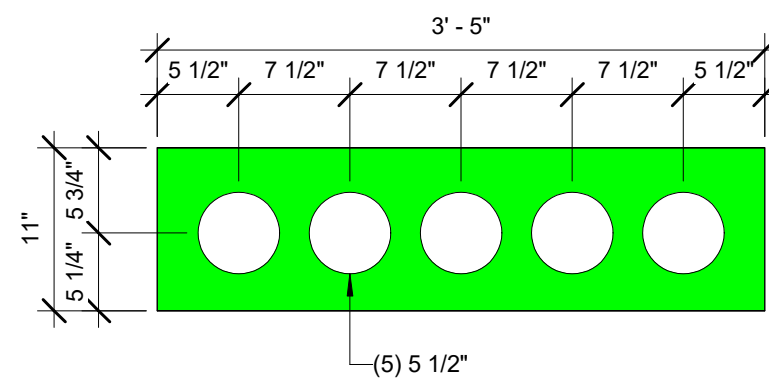
4 T-07 - TRENCH CARD DETAIL



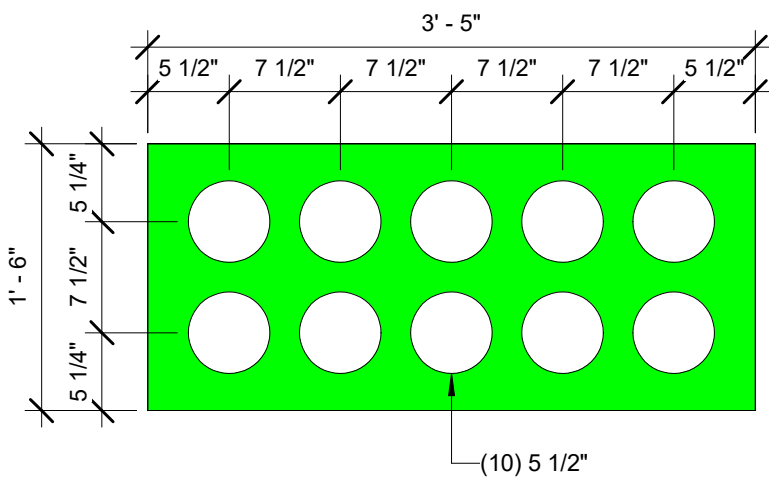
5 T-08 - TRENCH CARD DETAIL



6 T-09 - TRENCH CARD DETAIL



7 T-10 - TRENCH CARD DETAIL



8 T-11 - TRENCH CARD DETAIL

1 UNDERGROUND TRENCH CARD LAYOUT - GENERATOR YARD PART 4

UG UNDERSLAB LAYOUT



VIRTUAL ENGINEERING AND CONSTRUCTION

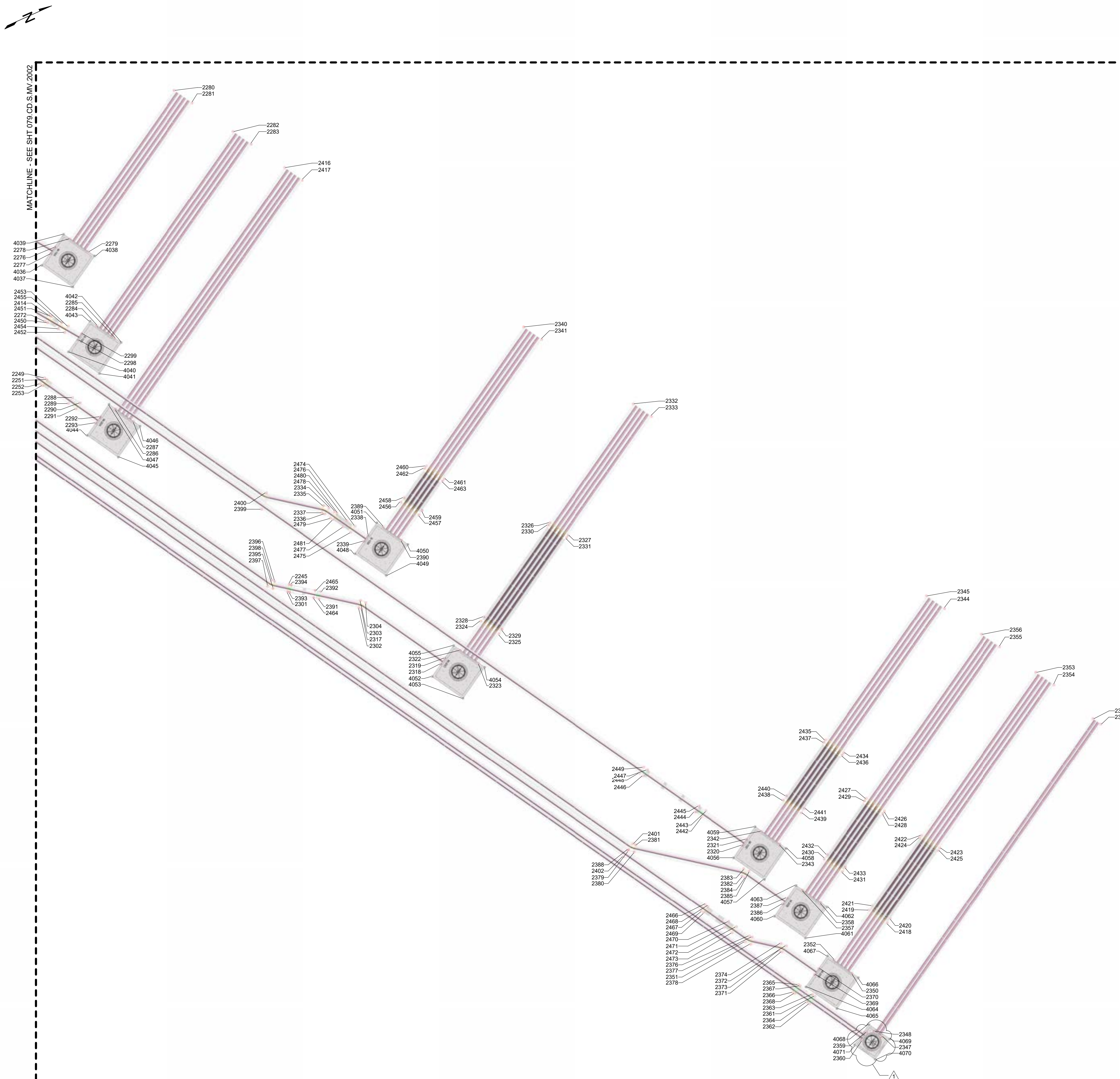
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STAMP

KEY PLAN



LEGENDS AND SYMBOLS

 MV - MEDIUM VOLTAGE FEEDER

 LV - FIBER OPTIC FEEDER

 LV - FIBER OPTIC POINT

 MV - MEDIUM VOLTAGE POINT

 VP - VAULT CORNER POINT

XXXX ← POINT NUMBER

[illegible]

SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: **As indicated**

CLIENT NAME:

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

UNDERGROUND LAYOUT POINT SECTOR S

SHEET NUMBER: _____

079.CD.S.MV.2003

1 UNDERGROUND - LAYOUT POINT SECTOR S

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KEY PLAN

[illegible]

SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: **As indicated**

CLIENT NAME:

PROJECT NAME:

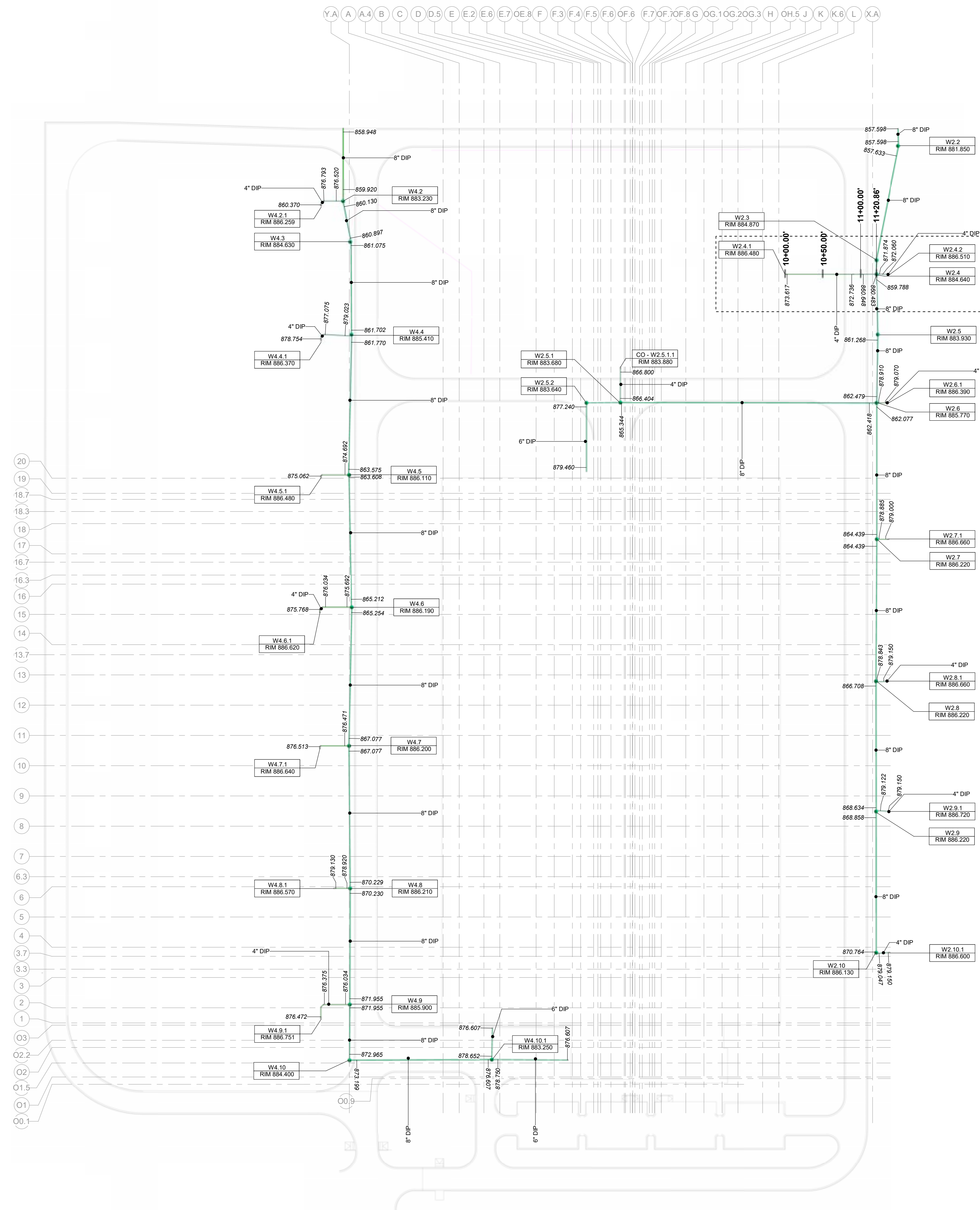
PROJECT ADDRESS:

SHEET NAME:

**EXHIBIT - SANITARY
SEWER - OVERALL**

SHEET NUMBER: _____

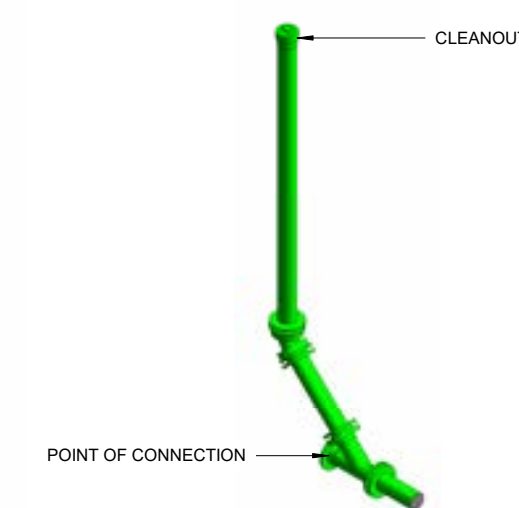
DC10.EX.SS.1000



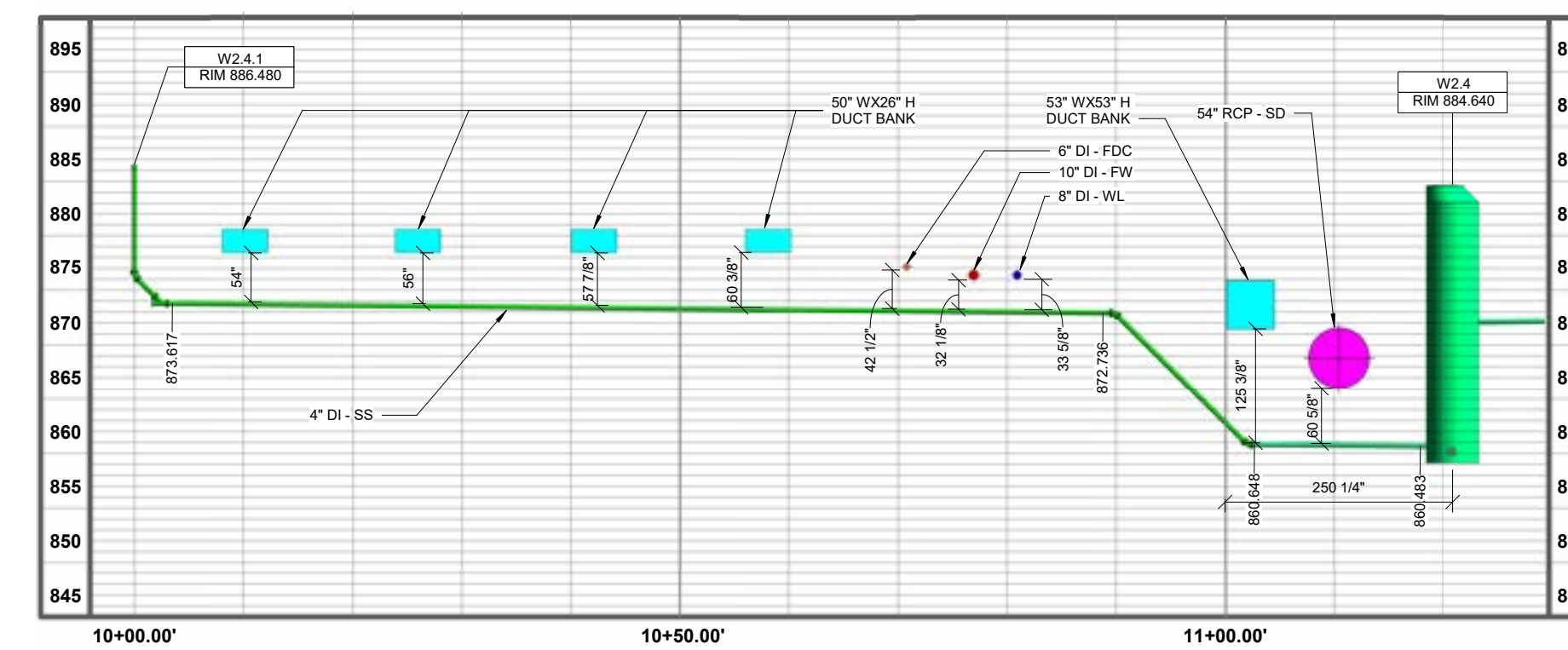
1 SANITARY SEWER - OVERALL



2 JUNCTION BOX DETAIL



3 CLEANOUT DETAIL



SANITARY SEWER - PROFILE - A1

VEC.CV.SD.1001

UG FIRE LOOP LAYOUT



VIRTUAL ENGINEERING AND CONSTRUCTION

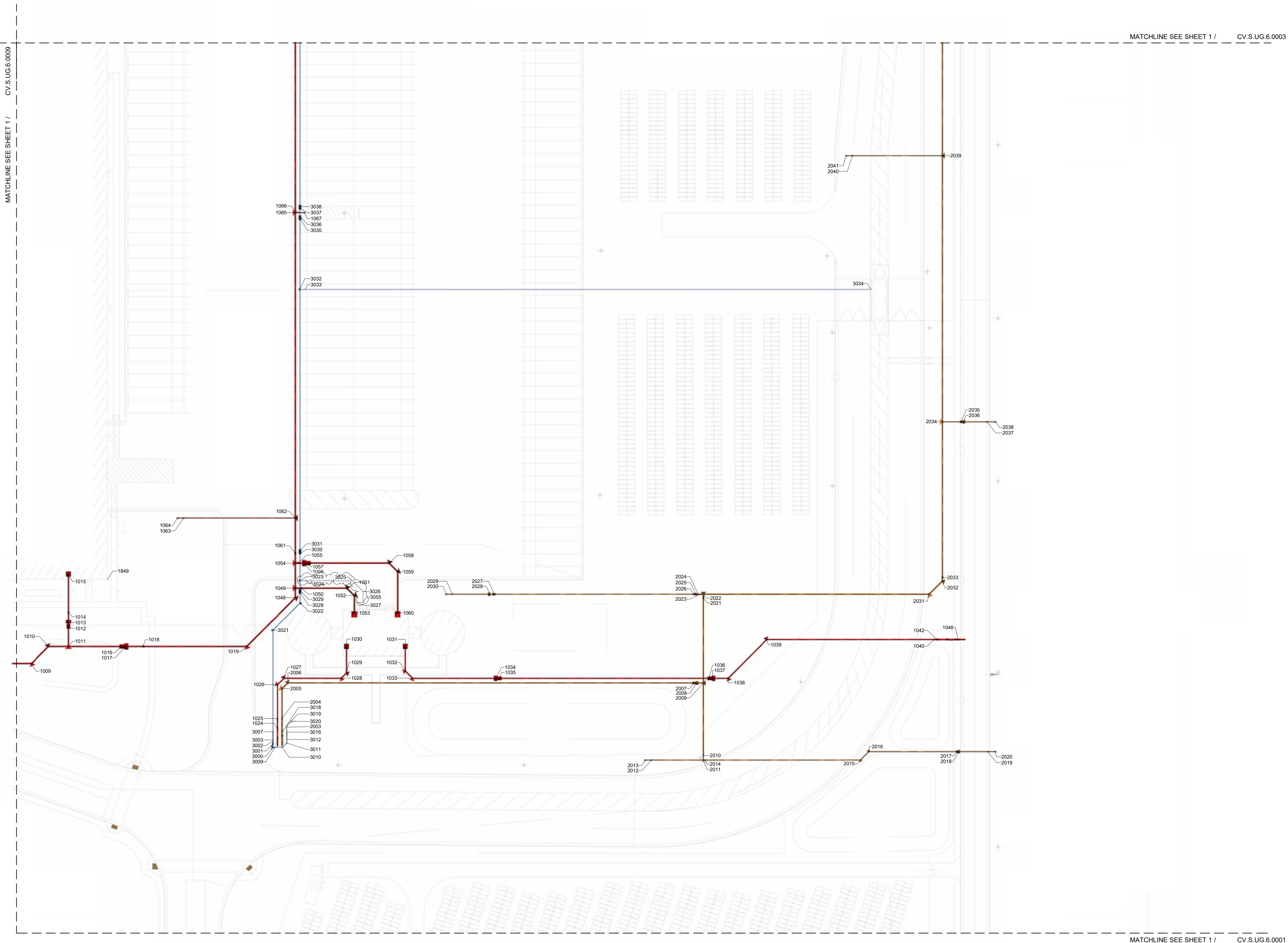
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KEY PLAN



LEGENDS AND SYMBOLS:

 CP# - CONTROL POINT

 LP# - LAYOUT POINT

■ W-PRIVATE WATER LINE

 PW-PUBLIC WATER LINE

 FH-FIRE PROTECTION LINE

■ ES-HIGH PRESSURE LINE (EP)

■ SS SANITARY SEWER

■ SS-SANITARY SEWER

SD-STORM SEWER

UD-UNDERDRAIN

2XXX—>FH POINT NUMBER

3XXX → W POINT NUMBER

[illegible]

SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: **As indicated**

CLIENT NAME:

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

FIRE & WATER - LAYOUT POINT PLAN

SHEET NUMBER: _____

VEC.MKT.CV.S.UG.1

1 LAYOUT POINT PLAN - AREA 2

VIRTUAL ENGINEERING AND CONSTRUCTION

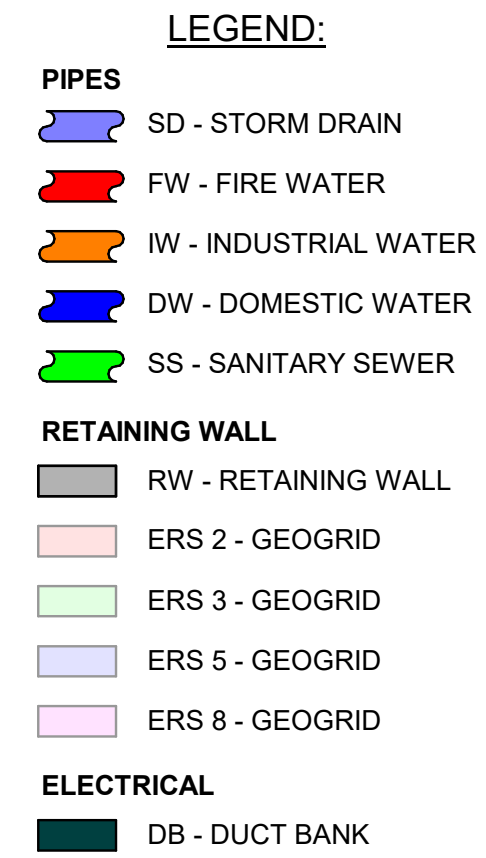
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San Francisco, CA, 94105

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CONSULTANTS

STAMP

KEY PLAN

[illegible]

SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: **As indicated**

CLIENT NAME:

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

**FLOOR PLAN - AREA D
- STATIONS**

SHEET NUMBER:

VEC.MKT.CV

1 FLOOR PLAN - AREA D - RETAINING WALL 4 - STATIONS

VIRTUAL ENGINEERING AND CONSTRUCTION

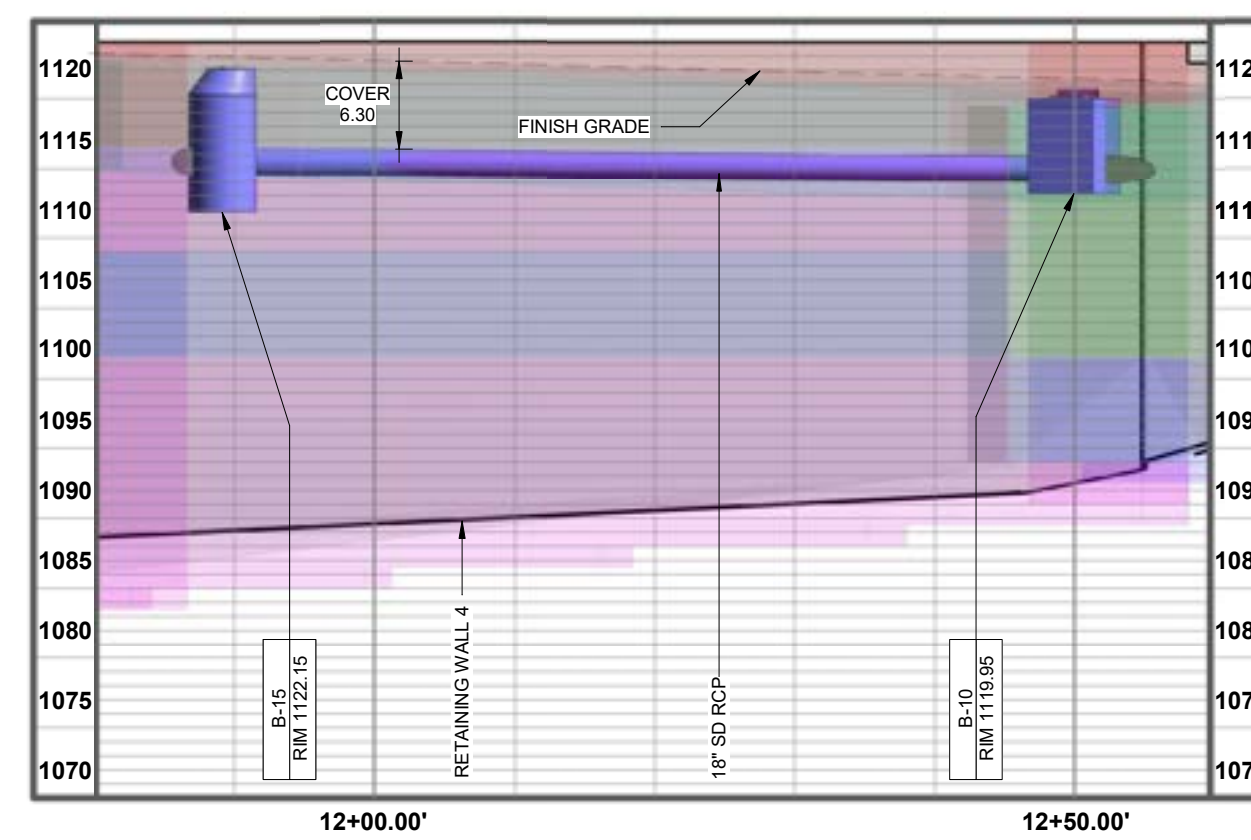
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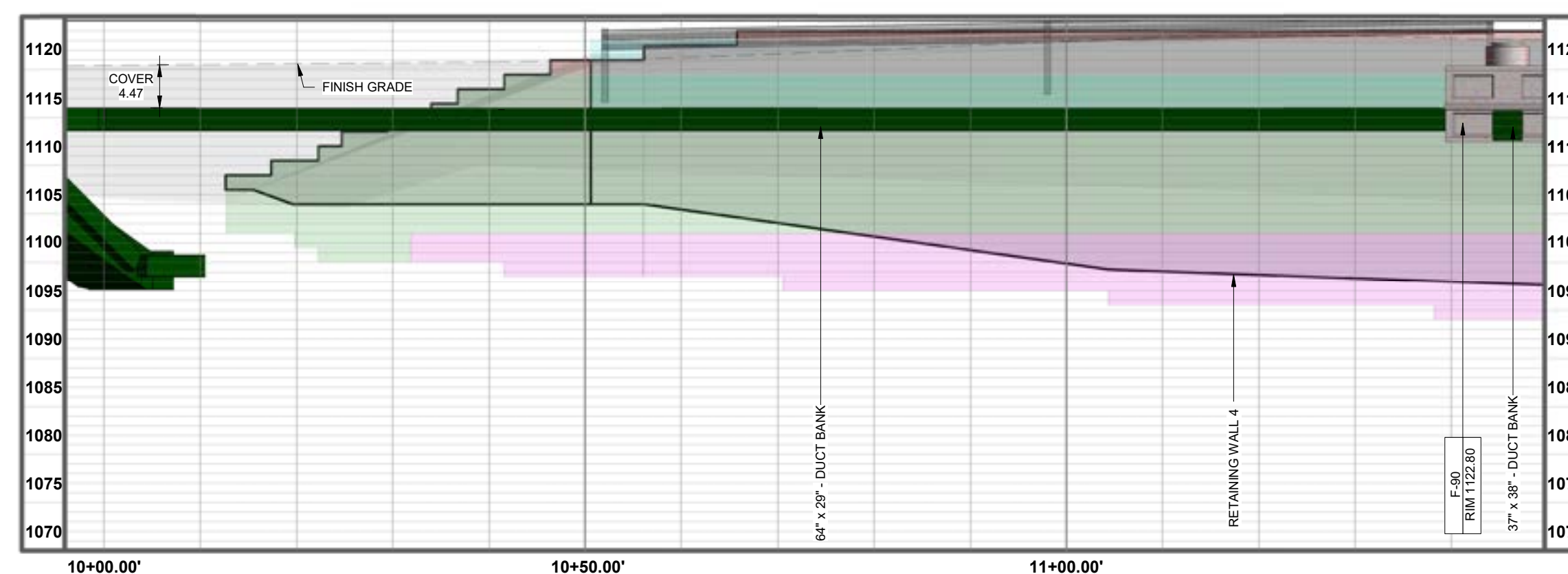
CONSULTANTS

STAMP

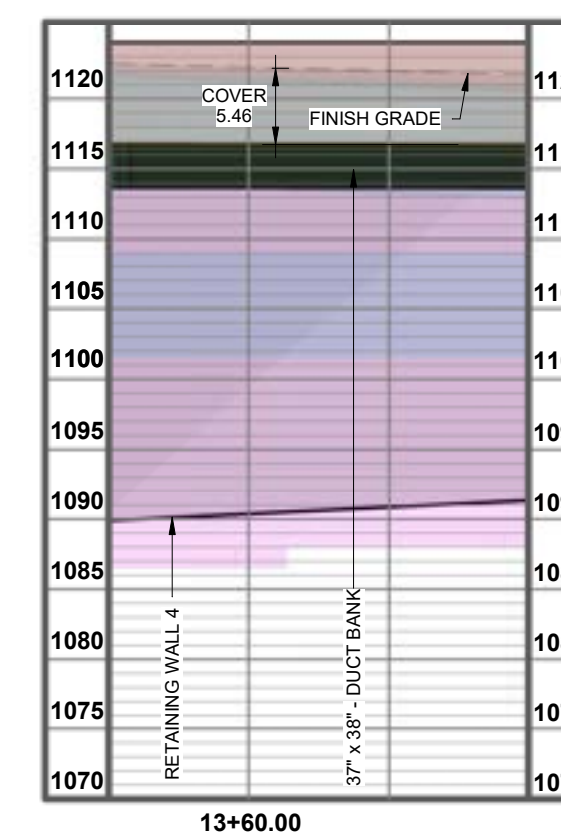
KEY PLAN



STORM DRAIN LINE - PROFILE - A3



FIBER OPTIC LINE - PROFILE - A1



FIBER OPTIC LINE - PROFILE - A4

FIBER OPTIC LINE - PROFILE - A5

LEGEND:

PIPES

-  SD - STORM DRAIN
-  FW - FIRE WATER
-  IW - INDUSTRIAL WATER
-  DW - DOMESTIC WATER
-  SS - SANITARY SEWER

RETAINING WALL

-  RW - RETAINING WALL
 ERS 2 - GEOGRID
 ERS 3 - GEOGRID
 ERS 5 - GEOGRID
 ERS 8 - GEOGRID

ELECTRICAL

- 
- DB - DUCT BANK

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SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: **As indicated**

CLIENT NAME: _____

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

SD & EL PROFILES

SHEET NUMBER: _____

ATL08.CV.01.1001

VIRTUAL ENGINEERING AND CONSTRUCTION

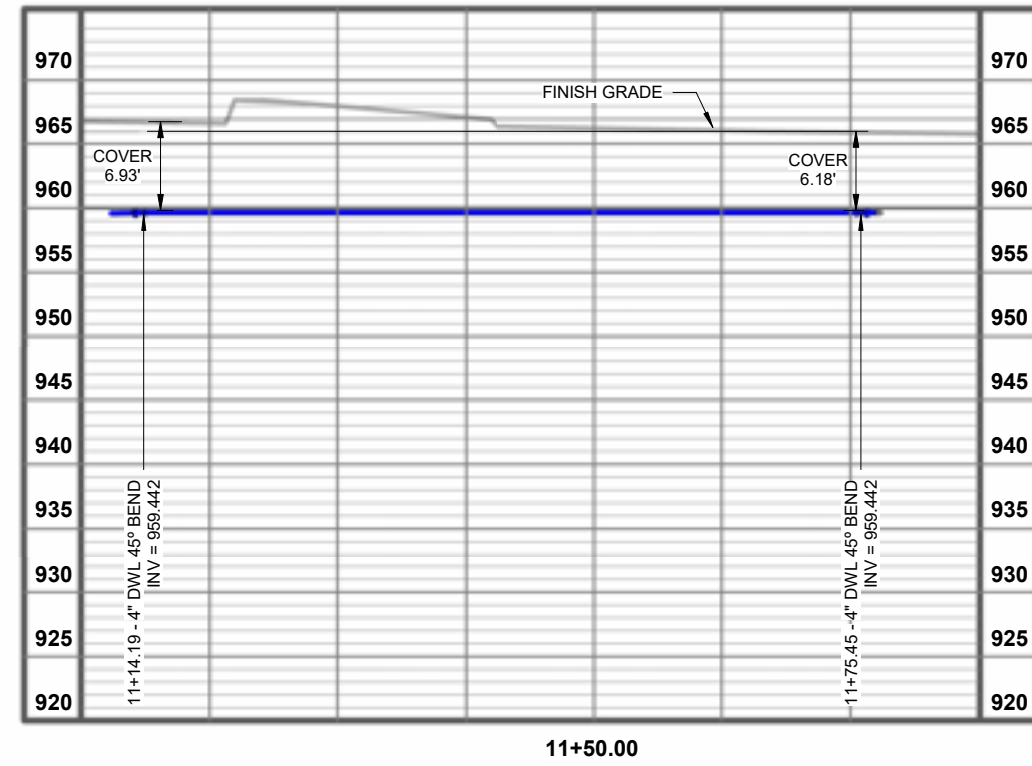
201 Spear St. Suite 1750,
San Francisco, CA, 94105

illog@rec-us.com
(415) 888-1832

CONSULTANTS

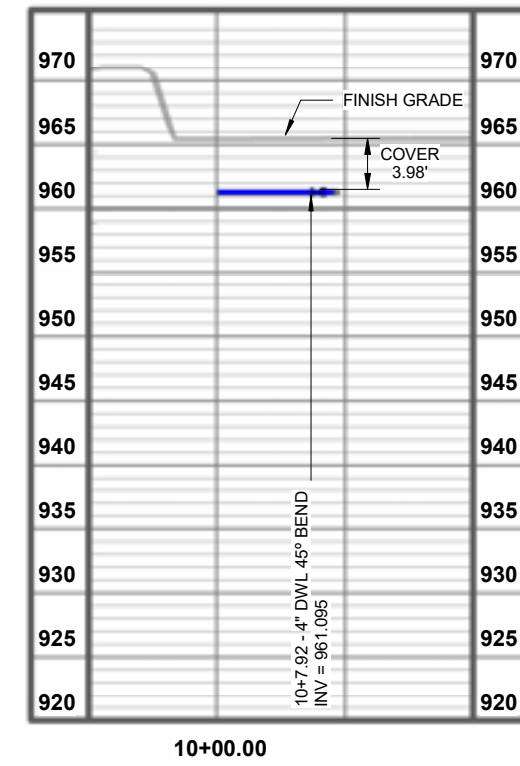
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KEY PLAN

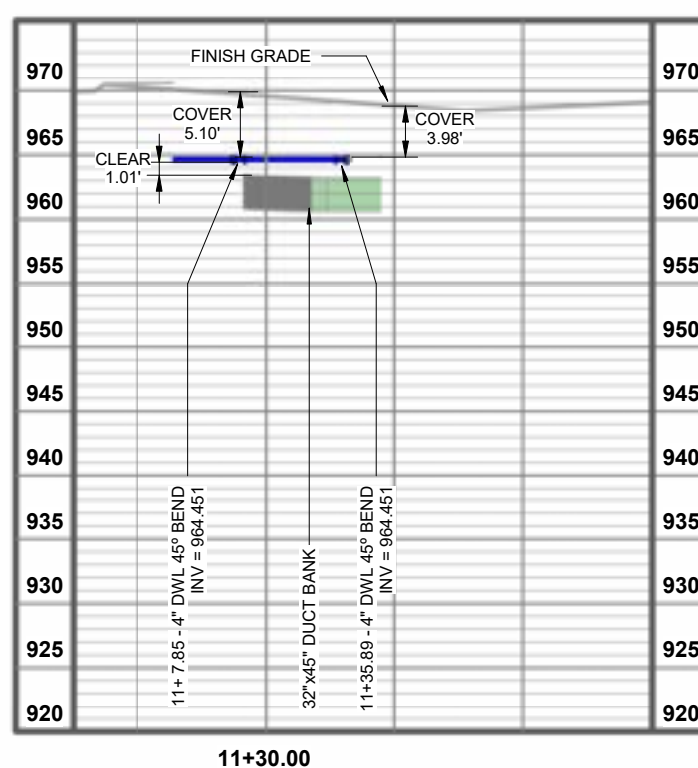
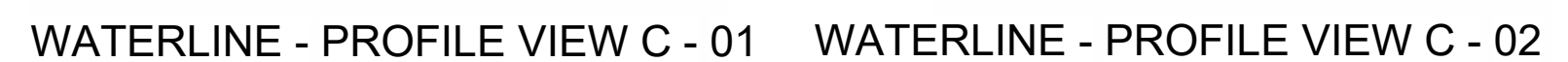


WATERLINE - PROFILE VIEW A - 01

WATERLINE - PROFILE VIEW A - 02

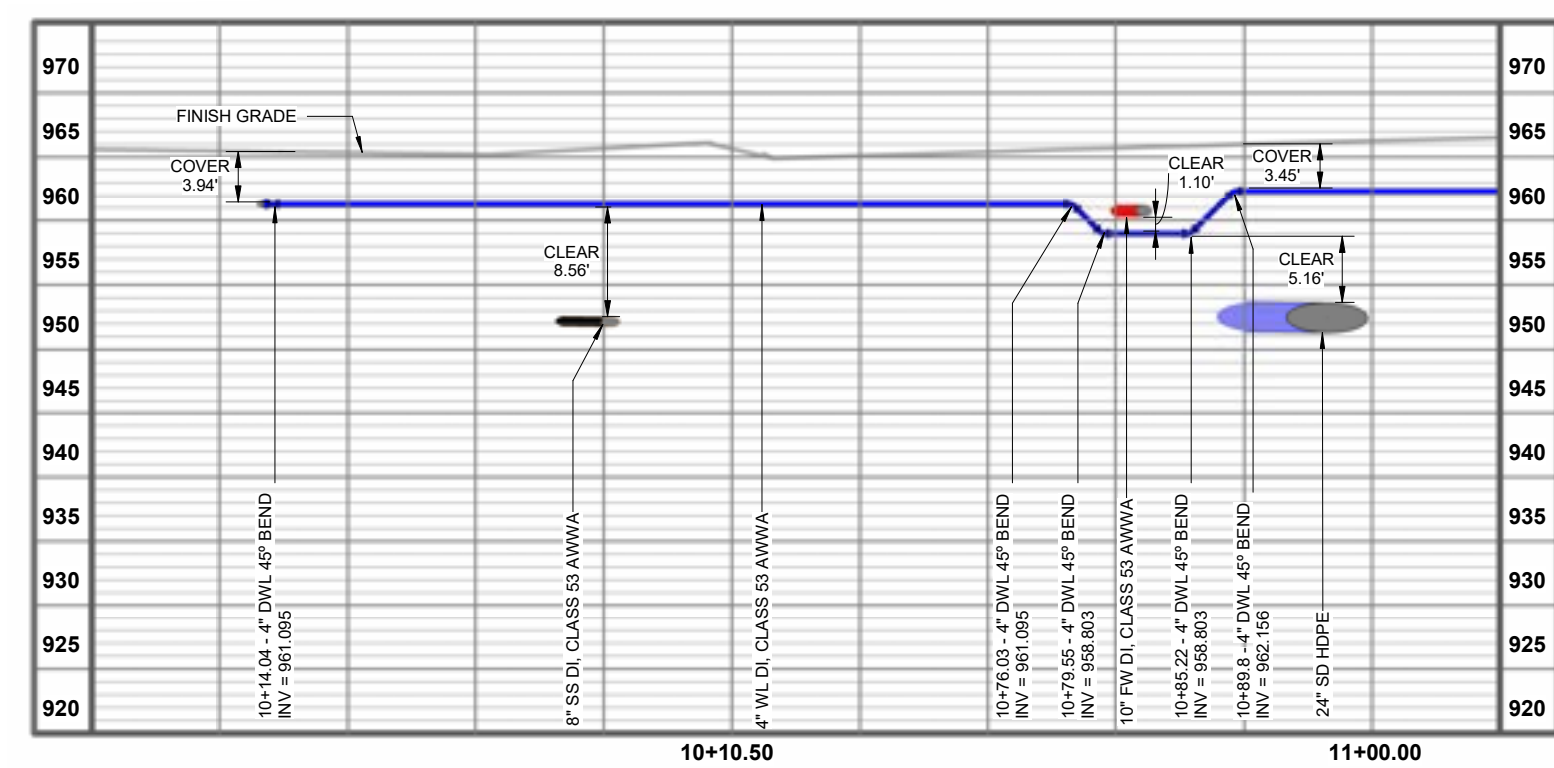


WATERLINE - PROFILE VIEW A - 03



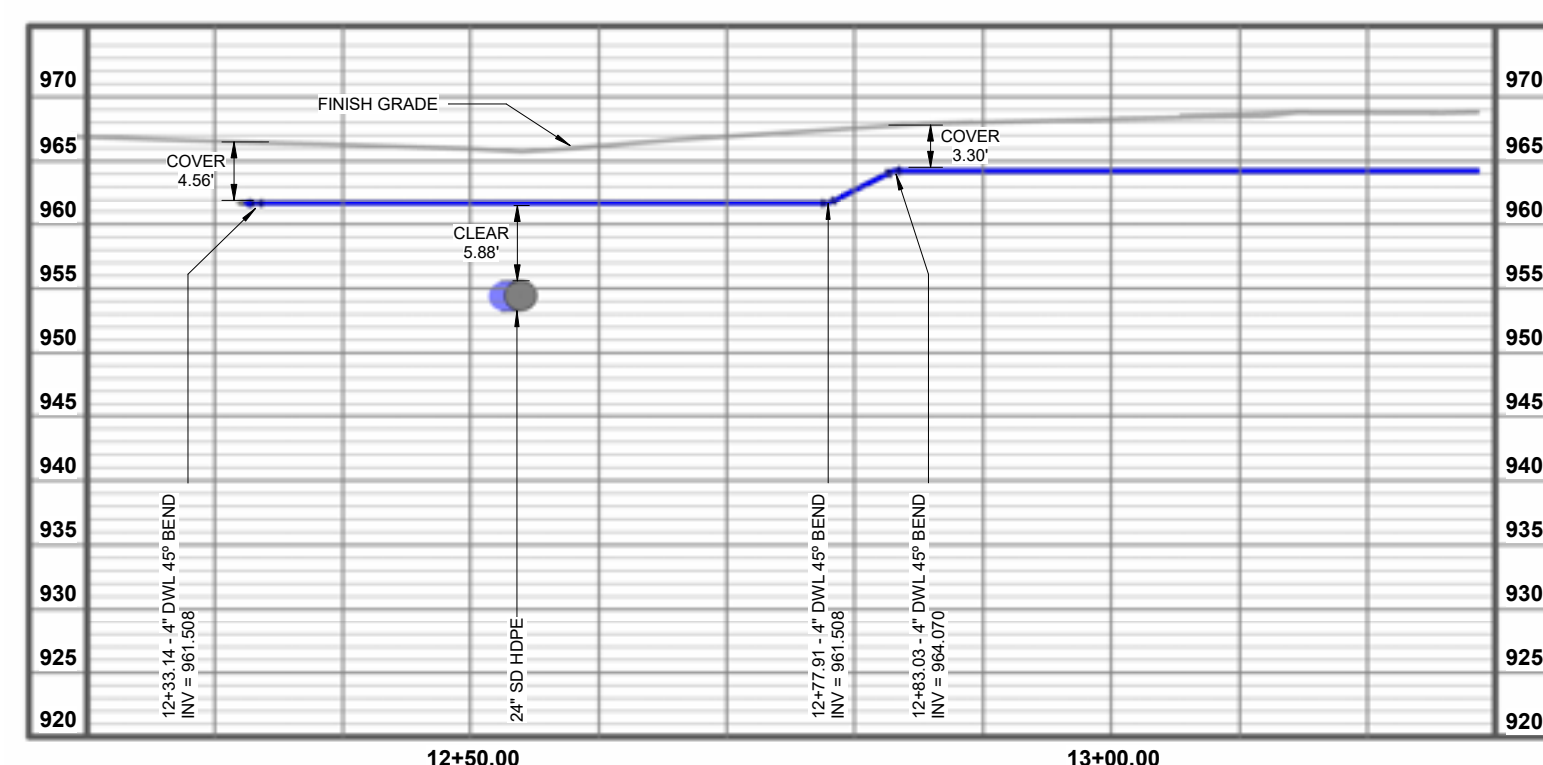
WATERLINE - PROFILE VIEW B - 01

WATERLINE - PROFILE VIEW B - 02



WATERLINE - PROFILE VIEW B - 03

WATERLINE - PROFILE VIEW C - 03



WATERLINE - PROFILE VIEW C - 04

WATERLINE - PROFILE VIEW C - 05

[illegible]

SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: **As indicated**

CLIENT NAME:

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

WATER LINE - PROFIL

SHEET NUMBER:

VEC.MKT.CV

VIRTUAL ENGINEERING AND CONSTRUCTION

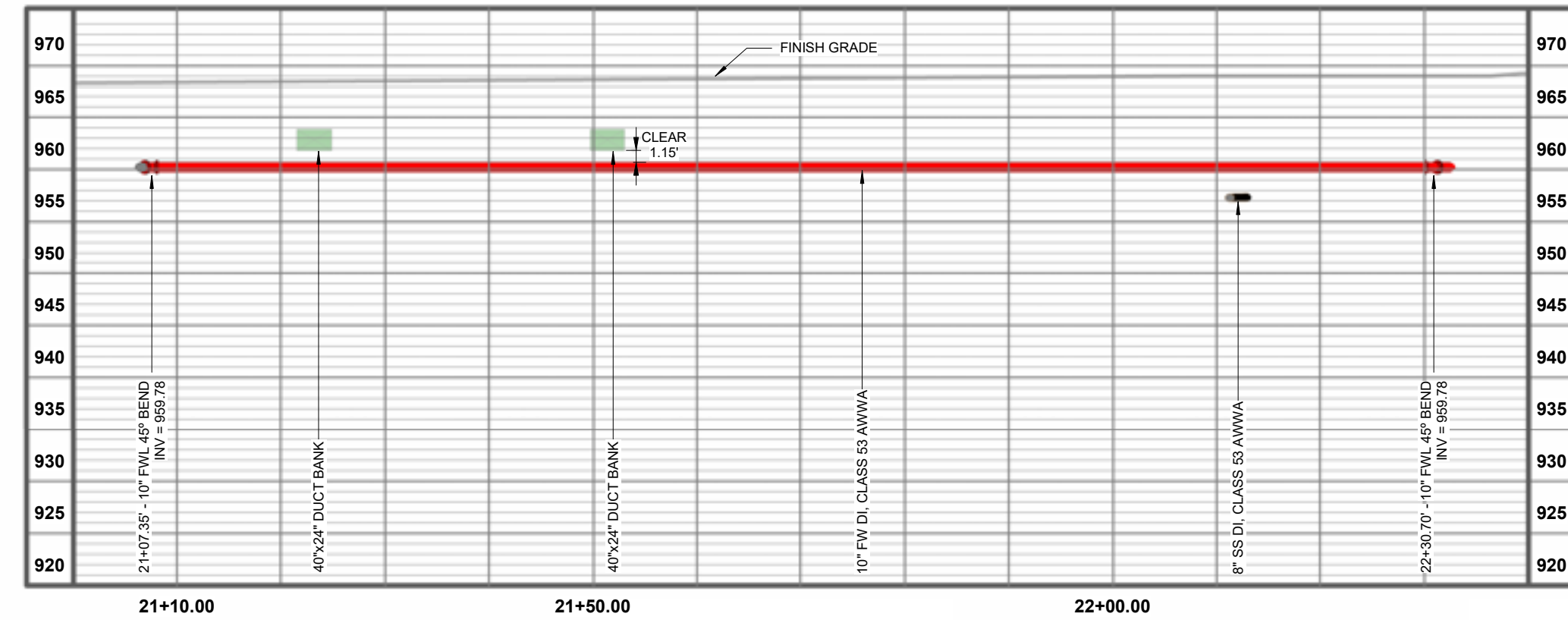
201 Spear St. Suite 1750,
San Francisco, CA, 94105

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+1 (415) 888-1832

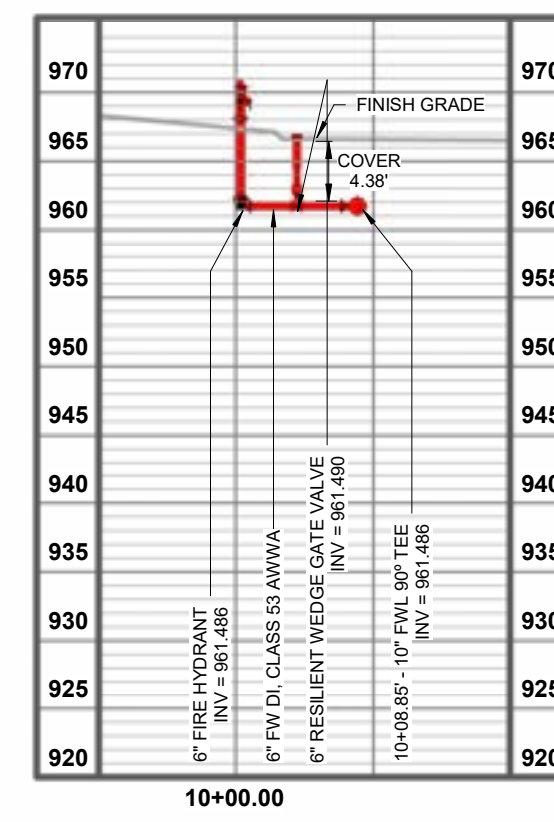
CONSULTANTS

STAMP

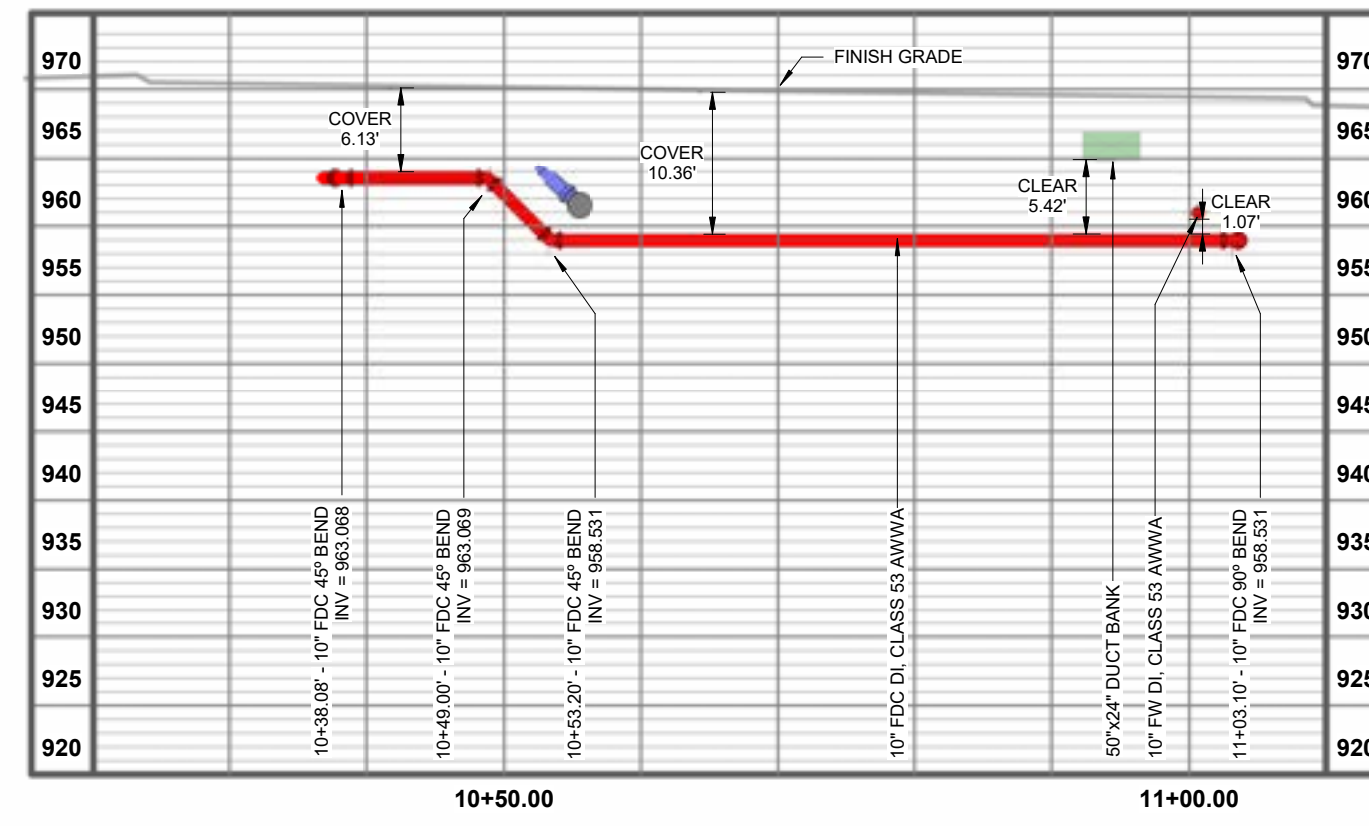
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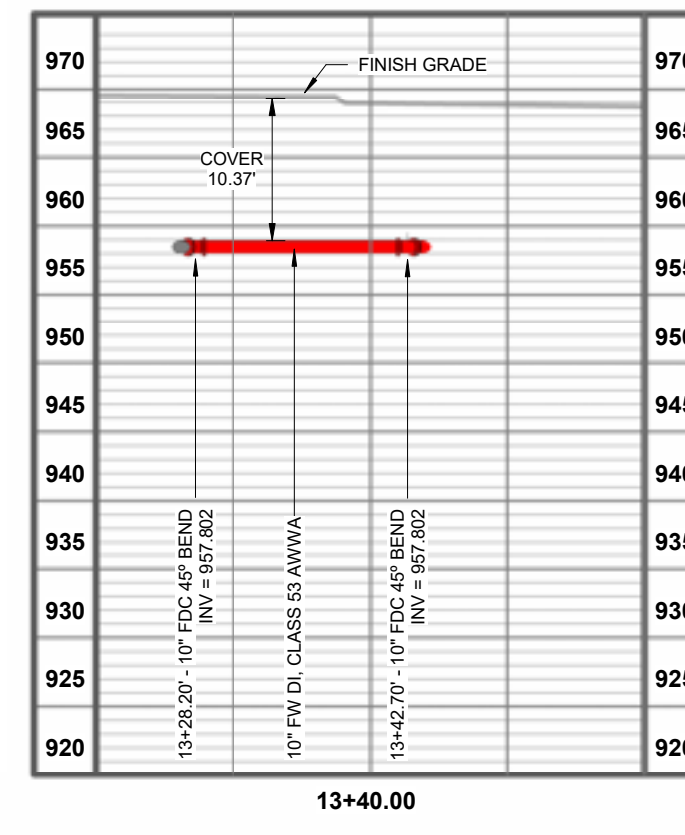
FDC WATER LINE - PROFILE G - 11



FDC WATER LINE - PROFILE I - 01



FDC WATER LINE - PROFILE J - 04



FDC WATER LINE - PROFILE J - 06

[illegible]

SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: **As indicated**

CLIENT NAME:

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

FDC WATER LINE - PROFILES

SHEET NUMBER:

VEC.MKT.CV

UG OPEN/CLOSED RFIS TRAY BOMS



VIRTUAL ENGINEERING AND
CONSTRUCTION

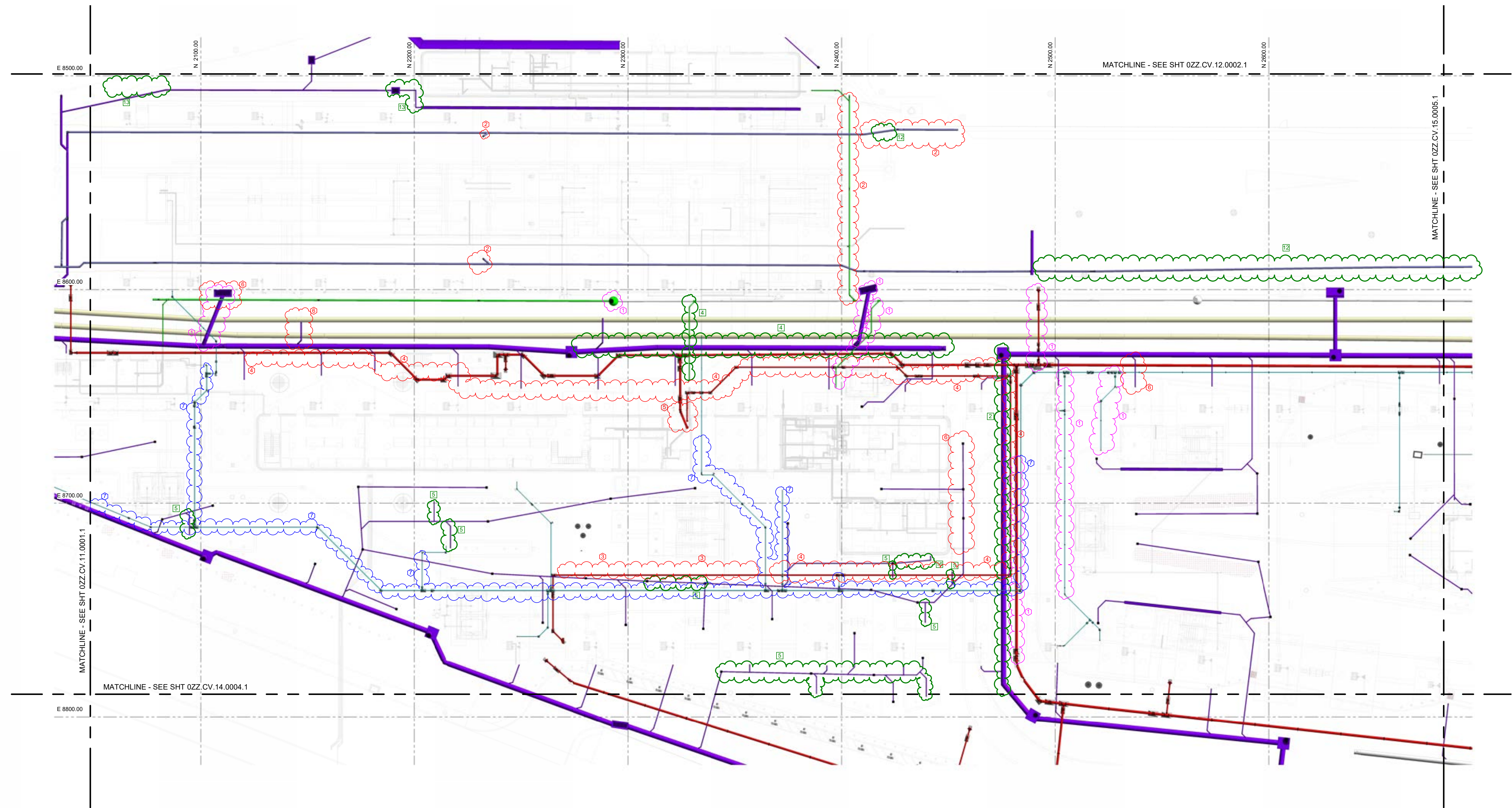
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CONSULTANTS

STAMP

KEY PLAN



1 COORDINATION CHANGES - AREA 3

000-0-CV-ALL-ACCEPTED RFI's					
TAG	VEC RFI #	TPC RFI #	TAG	VEC RFI #	TPC RFI #
1	RFI 001	RFI 343R1	10	RFI 020	RFI 689
2	RFI 002	RFI 410	11	-	RFI 0293
3	RFI 003	RFI 412/412R1	12	RFI 010R2	RFI 579/579R1
4	RFI 004	RFI 413	13	RFI 019	-
5	RFI 005	RFI 444	14	RFI 021	RFI 823
6	RFI 006	RFI 462	15	RFI 022	RFI 824
7	RFI 011	RFI 577	16	RFI 024	RFI 851
8	RFI 013	RFI 410R1	17	RFI 025	RFI 859
9	RFI 014	RFI 493	18	RFI 026	RFI 863

000-0-CV-ALL-UNDER REVIEW RFI's		
TAG	VEC RFI #	TPC RFI #
1	RFI 009	RFI 576/576R1
2	RFI 015	RFI 547/812 R1
3	RFI 023	RFI 826
4	RFI 030	RFI 33 00 01-29
5	RFI 031	RFI 33 00 01-29
6	RFI 032	-
7	RFI 033	RFI 33 11 00-20

COLOR LEGEND

- SS: SANITARY SEWER
- SD: STORM DRAIN
- DW: DOMESTIC WATER
- HW: DOMESTIC HOT WATER
- FS: FIRE SERVICE WATER
- UD: UNDERDRAIN
- G: GAS
- EL: ELECTRICAL PLAN
- INSTALLED

SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: As indicated

CLIENT NAME:

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

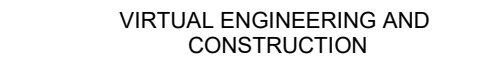
**UNDERGROUND - AREA 3 -
COORDINATION CHANGES**

SHEET NUMBER:

000.CV.13.6003.1

1

UG EJECTOR PIT ISO



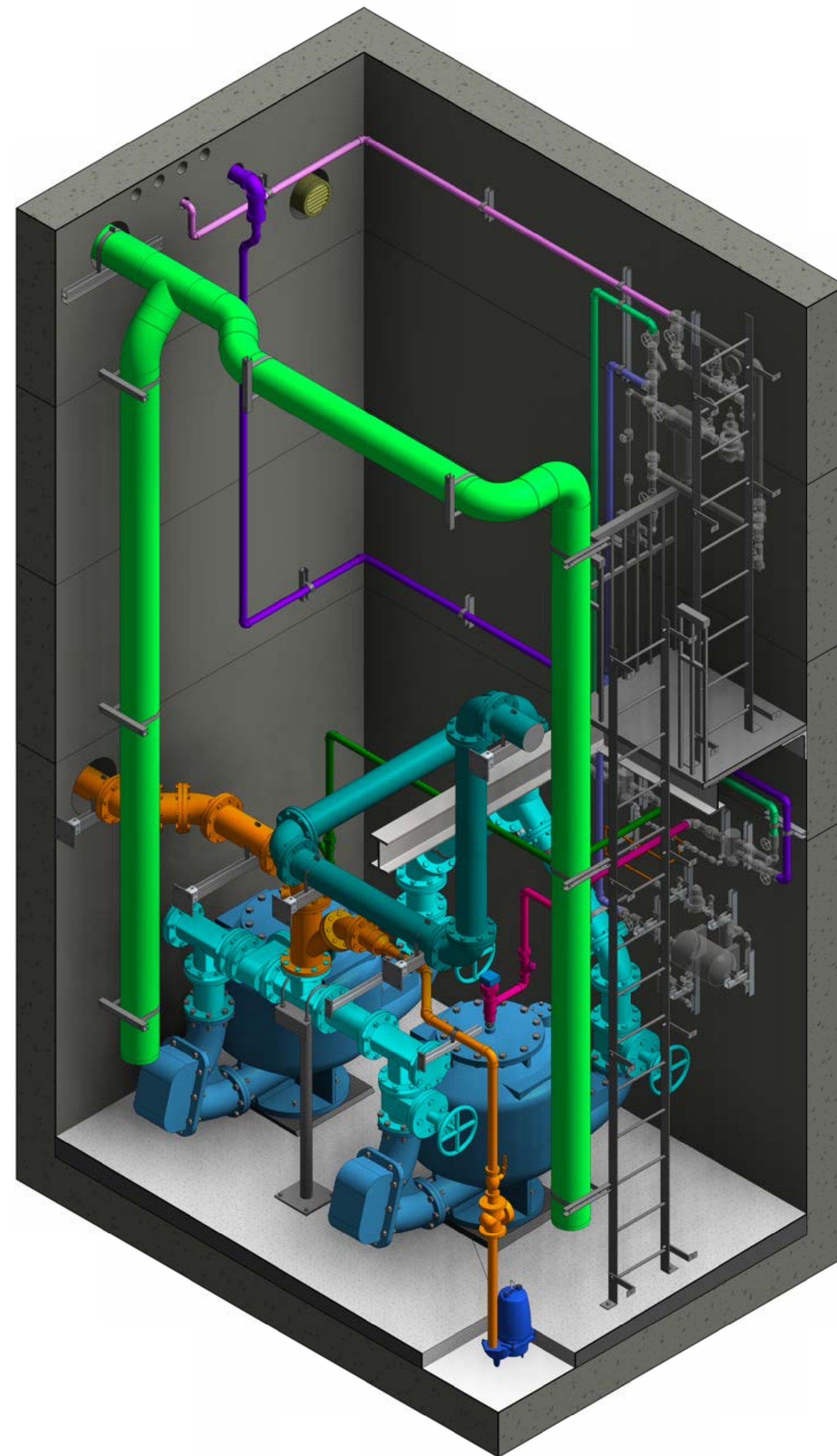
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CONSULTANTS

TAMP

KEY PLAN



GENERAL SHEET NOTES:

1. ALL ITEMS IN CYAN ARE PROVIDED BY CARTER
2. PIPES COLORED TO FACILITATE IDENTIFICATION
3. BOP: BOTTOM OF EJECTOR PIT TO BOTTOM OF PIPE

1 3D ISOMETRIC - ASSEMBLIES PIPE LAYOUT OVERALL

[illegible]

SHEET SIZE: 36"x48"

PROJECT NO.:

CALE:	As indicated
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CLIENT NAME:

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

ISOMETRIC ASSEMBLIES

LAYOUT

SHEET NUMBER: _____

000.CV.UG.9001.2

UG EJECTOR PIT SECTIONS

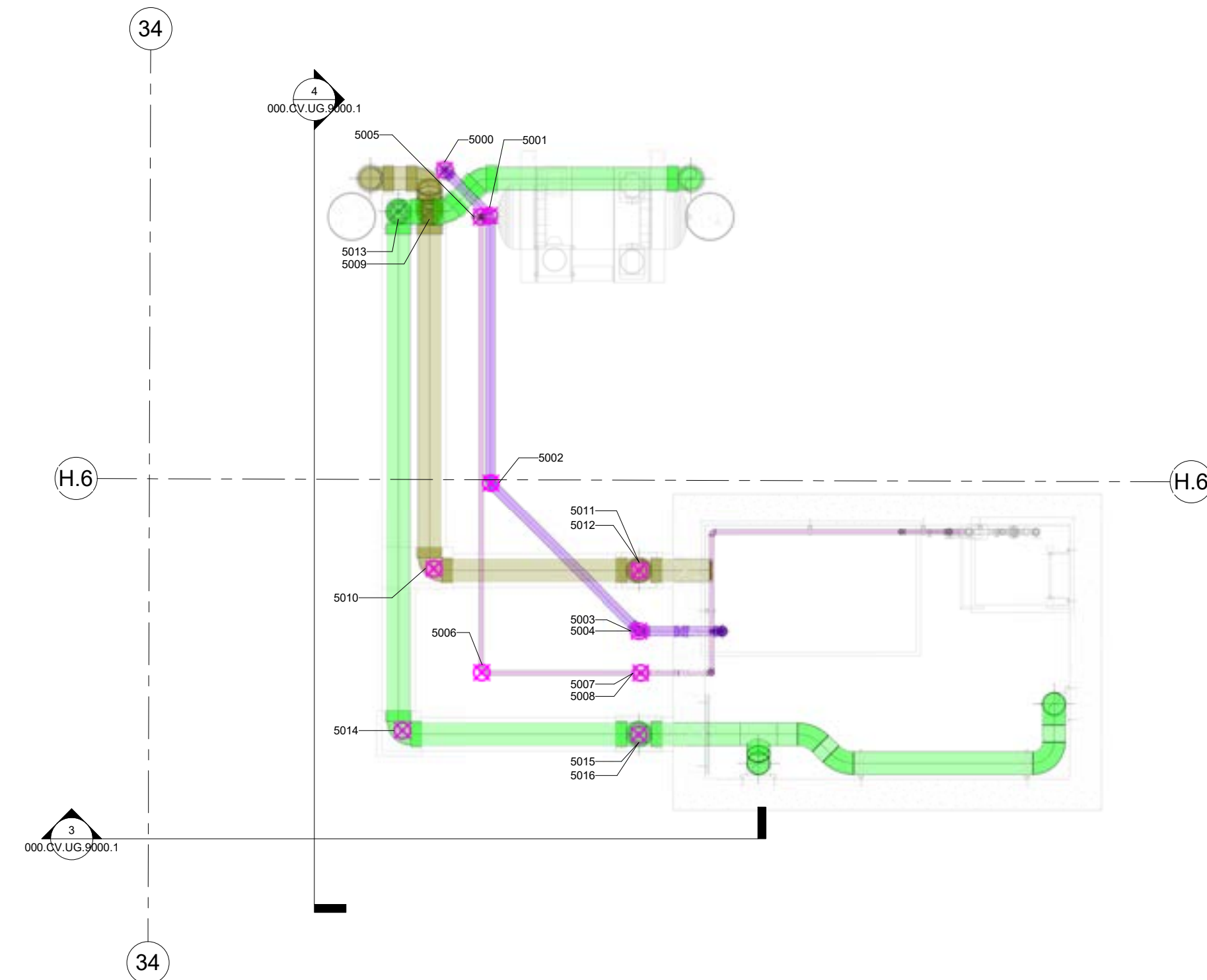


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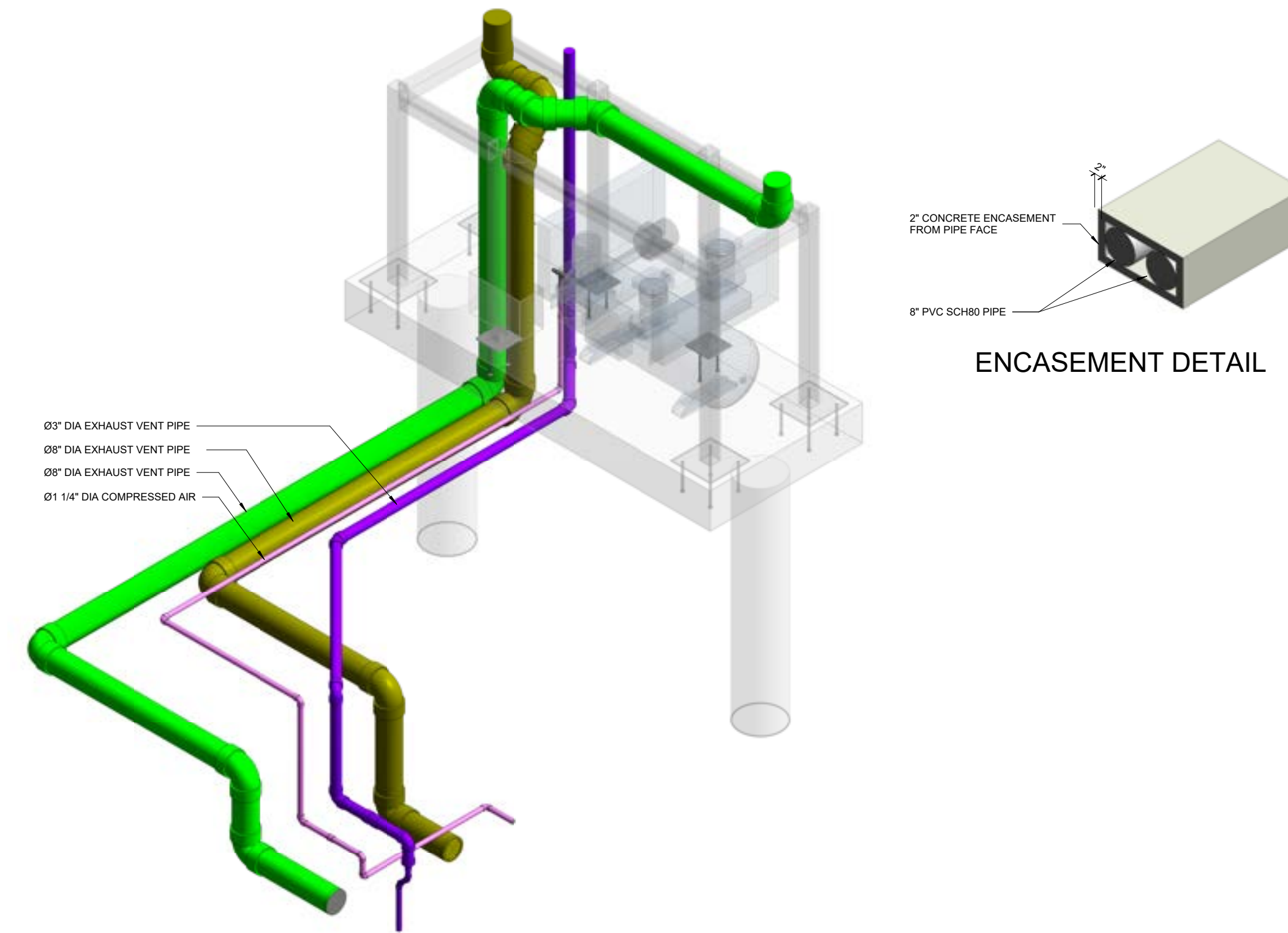
CONSULTANTS

STAMP

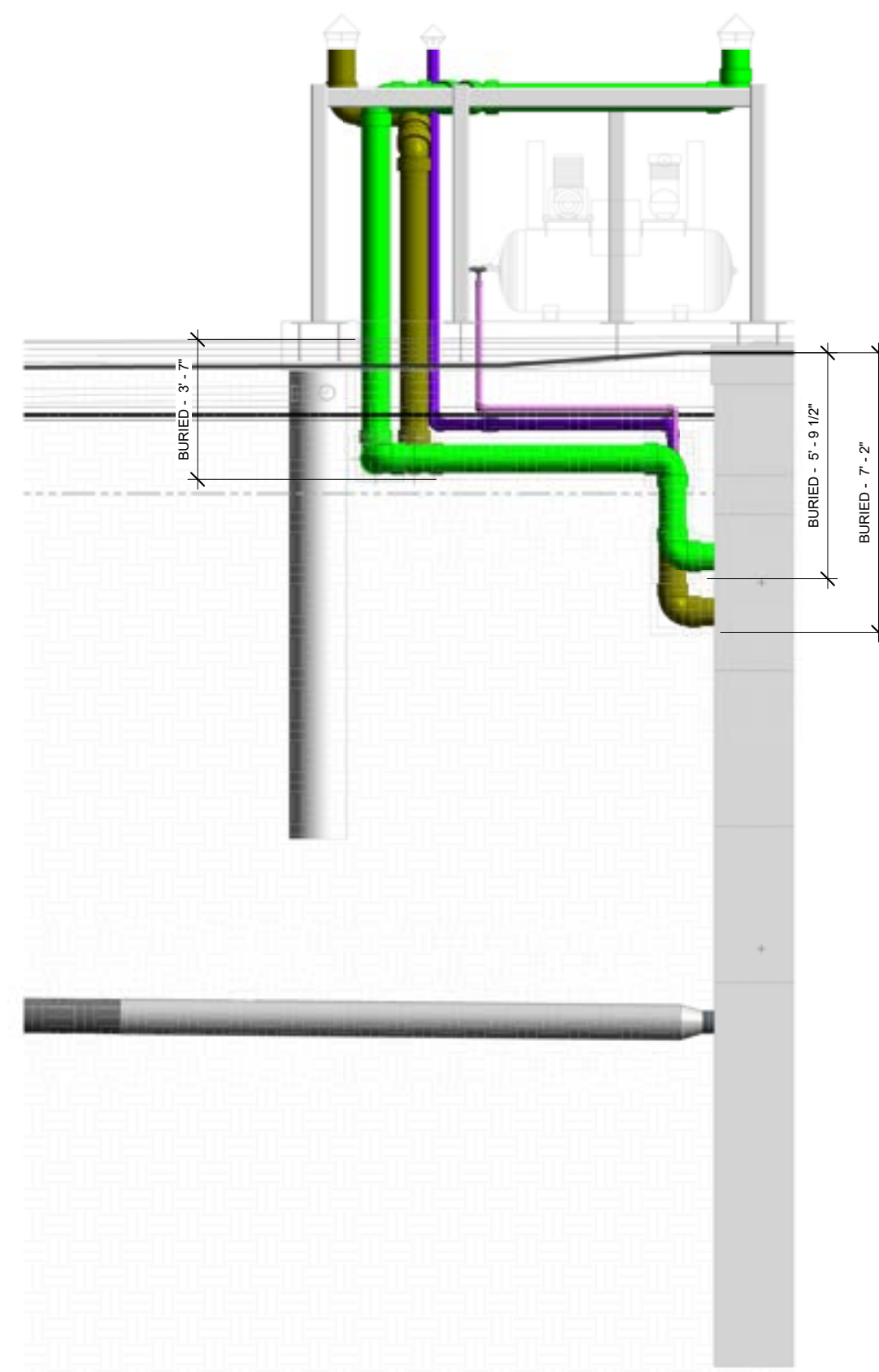
KEY PLAN



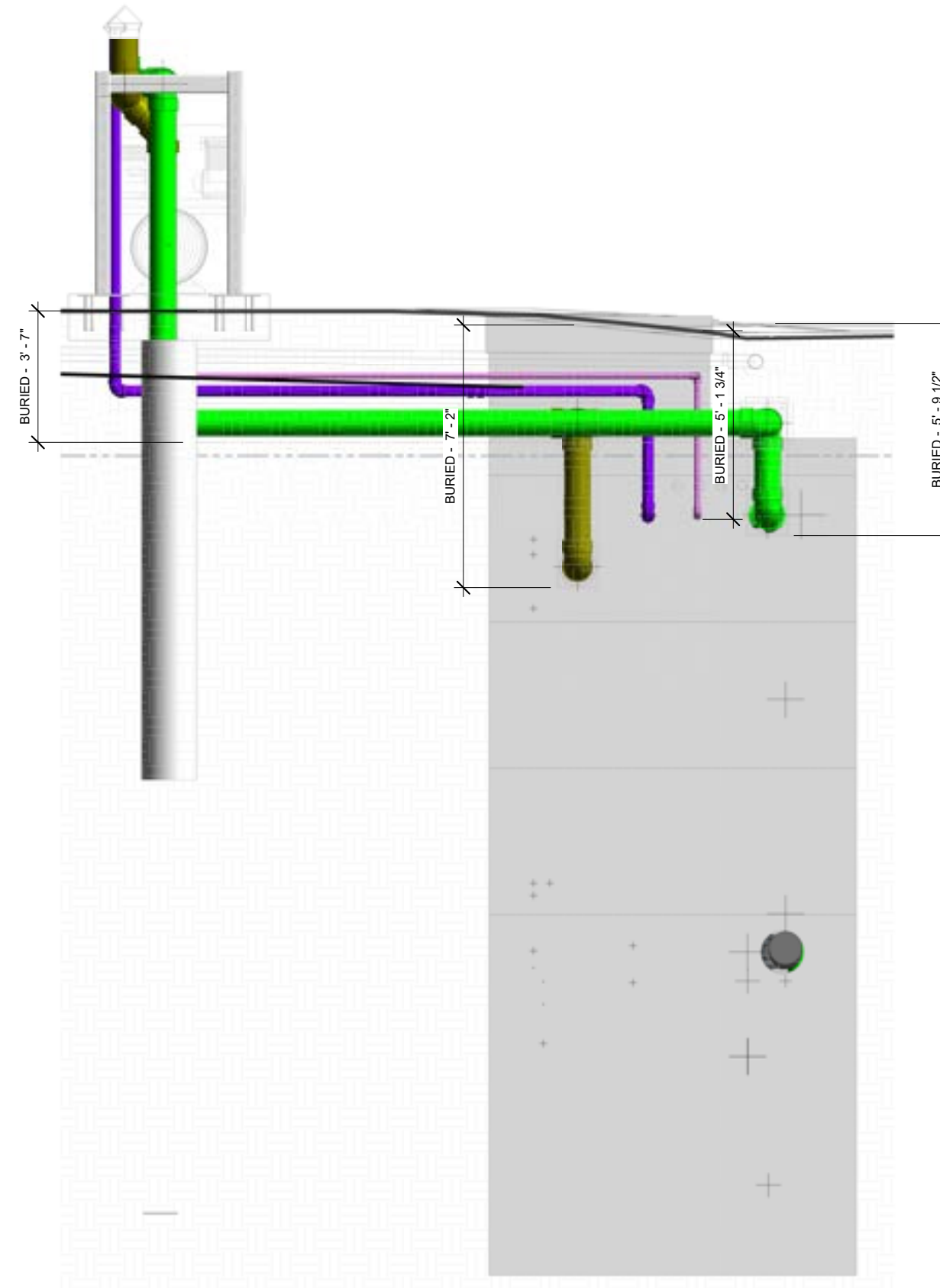
1 PLAN VIEW - ROUTING TO AIR COMPRESSOR PAD



2 ISO - ROUTING TO AIR COMPRESSOR PAD



3 SECTION 01



4 SECTION 02

GENERAL SHEET NOTES:

1. PIPES COLORED TO FACILITATE IDENTIFICATION

COLOR LEGEND:

 ← LP# - LAYOUT POINT

XXXX ← POINT NUMBER

 Ø8" DIA EXHAUST VENT PIPE

Ø8" DIA EXHAUST VENT PIPE

Ø1 1/4" DIA COMPRESSED AIR

Ø3" DIA EXHAUST VENT PIPE

[illegible]

SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: **As indicated**

CLIENT NAME:

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

EJECTOR PIT EXIT
☐ **LAYOUT PACKAGE**

SHEET NUMBER:

000.CV.UG.9000.1

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ello@vec-us.com
1 (415) 888-1832

STAMP

KEY PLAN



SHEET SIZE: 36"x48"

PROJECT NO.:

SCALE: **As indicated**

CLIENT NAME:

PROJECT NAME:

PROJECT ADDRESS:

SHEET NAME:

DETAILED SECTIONS

SHEET NUMBER: _____

000.CV.UG.3001.1

201 Spear St. Suite 1750,
San Francisco, CA, 94105

STAMP

KEY PLAN

[illegible]

LS.CW.EX.SD.3001

 PS - PROPOSED SOLUTION



000.CV.00.7003.