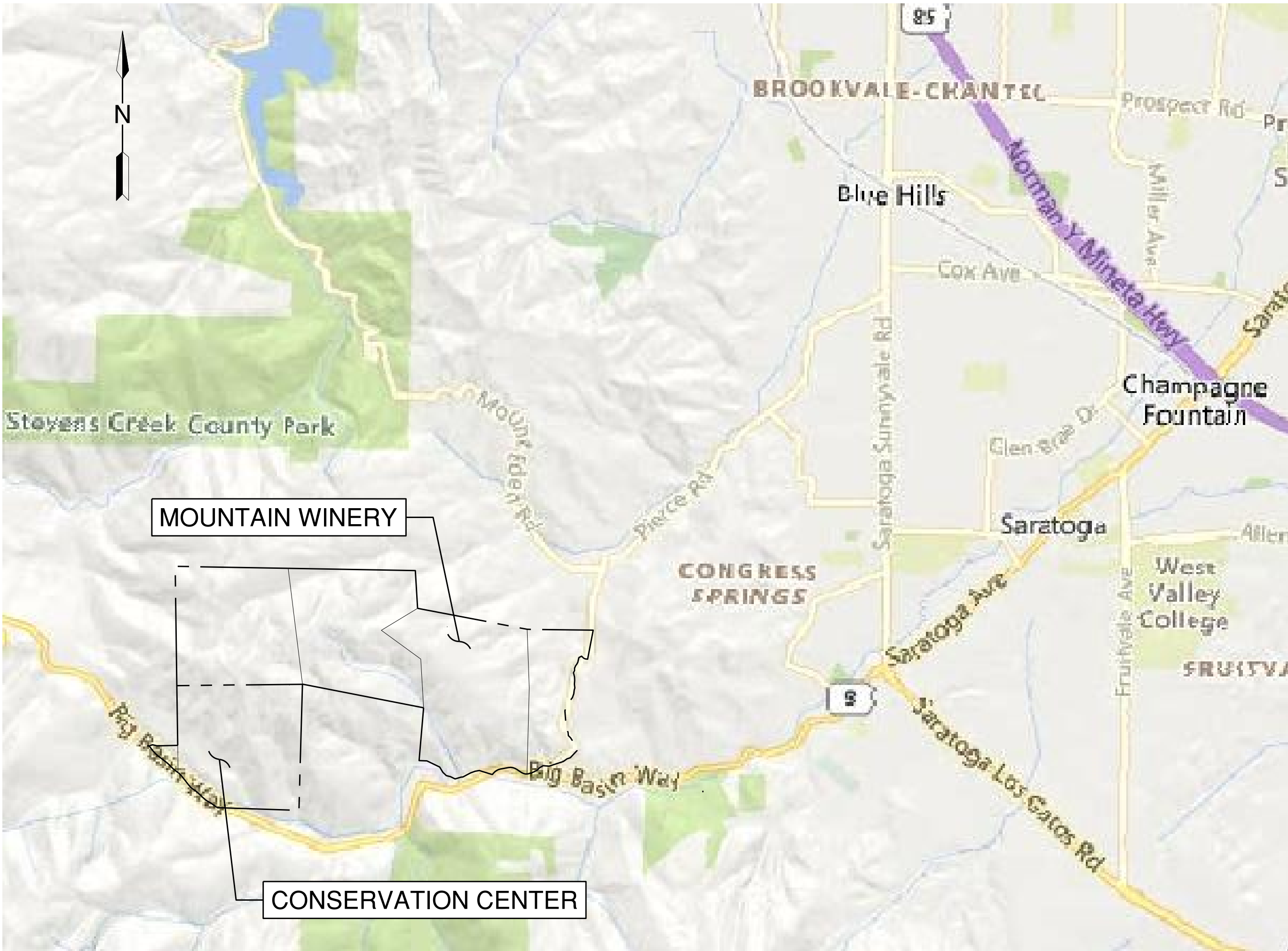


ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
24103 CONGRESS SPRINGS ROAD
SARATOGA, CALIFORNIA

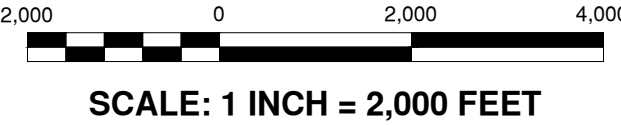
WATER SERVICE

DRAWING INDEX

SHEET NO.	DWG NO.	TITLE
1	T1	TITLE SHEET
2	T2	NOTES, LEGEND, & ABBREVIATIONS
3	G1	OVERALL PLAN
4-5	G2-G3	PLAN
6-13	C1-C8	PIPELINE LAYOUT PLANS
14	PS1.0	AIR-GAP TANK AND BOOSTER PUMP STATION SITE PLAN
15	PS1.1	AIR-GAP TANK AND BOOSTER PUMP STATION PLAN AND SECTIONS
16	PS2.0	INTERMEDIATE TANK AND BOOSTER PUMP STATION SITE PLAN
17	PS2.1	INTERMEDIATE TANK AND BOOSTER PUMP STATION PLAN AND SECTIONS
18	PS3.0	BREAK TANK SITE PLAN
19	PS3.1	BREAK TANK PLAN AND SECTIONS
20	RW1.0	RETAINING WALL PROFILES



LOCATION MAP



PROJECT DESCRIPTION

1. PROJECT CONSISTS OF THE CONSTRUCTION OF A NEW WATER SERVICE TO THE CONSERVATION CENTER FOR WILDLIFE CARE. THE FOLLOWING ITEMS ARE INCLUDED.
- METERED CONNECTION TO THE SAN JOSE WATER COMPANY WATER MAIN AT PIERCE ROAD
 - WATER PIPING FROM PIERCE ROAD TO THE CONSERVATION CENTER WATER STORAGE TANKS
 - AIR-GAP TANK AND BOOSTER PUMP STATION
 - INTERMEDIATE TANK AND BOOSTER PUMP STATION
 - BREAK TANK
 - ELECTRICAL AND COMMUNICATIONS

GRADING

1. GRADING FOR INSTALLATION OF THE FOUNDATIONS AND RETAINING WALLS FOR THE WATER SERVICE PUMP STATION AND TANK SITES.

IMPROVEMENT	EARTHWORK QUANTITY (CUBIC YARDS)		MAXIMUM DEPTH (FEET)	
	CUT	FILL	CUT	FILL
DRIVEWAY, ACCESS ROAD				
BUILDING PAD				
LANDSCAPING				
OTHER IMPROVEMENTS	130	0	5.5	0
TOTAL	130	0	5.5	0

IMPERVIOUS AREA

NEW IMPERVIOUS AREA (SQUARE FEET)	
AIR-GAP TANK AND BOOSTER PUMP STATION SITE (SEE SHEET PS1.0)	50
INTERMEDIATE TANK AND BOOSTER PUMP STATION SITE (SEE SHEET PS2.0)	50
BREAK TANK SITE (SEE SHEET PS3.0)	30
TOTAL	130



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1171 HOMESTEAD ROAD, STE 255
SANTA CLARA, CA 95050
(408) 246-4848

ISSUES AND REVISIONS	
NO. DATE	DESCRIPTION
2/22/2021	ECCWC USE PERMIT, ASA, GRADING MODIFICATION

PROJECT NUMBER
16011.00

SHEET TITLE
TITLE SHEET

SCALE
1" = 2000'

SHEET NUMBER

1. FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFACES WITH THE LIMITS OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE, THE TREES SHALL BE PROTECTED BY THE PLACEMENT OF RIGID TREE PROTECTIVE FENCING, CONSISTENT WITH THE COUNTY INTEGRATED LANDSCAPE GUIDELINES, AND INCLUDE THE FOLLOWING:
 - 1.A. FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIPLINE OF THE TREE OR GROVE OF TREES.
 - 1.B. THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION PERIOD AND SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION.
 - 1.C. FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES.
 - 1.D. SIGN AGE STATING, "WARNING- THIS FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5770. COUNTY OF SANTA CLARA TREE PROTECTION MEASURES MAY BE FOUND AT <http://www.sccplanning.gov>. SHALL BE PLACED ON THE TREE PROTECTIVE FENCING.
2. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL BE SECURELY IN PLACED AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.
3. SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION.



1. PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE FENCING SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN AND INSPECTED BY A CERTIFIED ARBORIST. THE ARBORIST SHALL MONITOR CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION MEASURES ARE IMPLEMENTED AND ADHERED TO DURING CONSTRUCTION. THIS CONDITION SHALL BE INCORPORATED INTO THE GRADING PLANS.
2. FENCE SHALL BE MINIMUM 5 FEET TALL CONSTRUCTED OF STURDY MATERIAL (CHAIN-LINK OR EQUIVALENT STRENGTH/ DURABILITY).
3. FENCE SHALL BE SUPPORTED BY VERTICAL POSTS DRIVEN 2 FEET MINIMUM INTO THE GROUND AND SPACED NOT MORE THAN 10 FEET APART.
4. TREE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE DURING THE CONSTRUCTION PERIOD, INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION, REPAIRED AS NECESSARY TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL THE FINAL INSPECTION.
5. A SIGN THAT INCLUDES THE WORDS, "WARNING: THIS FENCE SHALL NOT BE REMOVED WITHOUT THE EXPRESSED PERMISSION OF THE SANTA CLARA COUNTY PLANNING OFFICE," SHALL BE SECURELY ATTACHED TO THE FENCE IN A VISUALLY PROMINENT LOCATION.



EXISTING FEATURES AND BOUNDARIES SHOWN HEREIN ARE BASED ON THE FOLLOWING:

1. TOPOGRAPHIC SURVEY BY LEA & BRAZE ENGINEERING INC.
TITLE: "PARTIAL TOPOGRAPHIC SURVEY"
DATE: 1-15-2019
JOB#: 2181406
2. PROPOSED EASEMENT EXHIBIT BY LEA & BRAZE ENGINEERING INC.
TITLE: "ROADWAY EASEMENT EXHIBIT"
DATE: 7-9-2020
JOB#: 2181406
3. AUTOCAD FILES PROVIDED BY HANNA-BRUNETTI, INC. ON 12-2-2020 AND 2-2-2021.



<u>PROPOSED</u>	<u>EXISTING</u>	<u>DESCRIPTION</u>
		WATER SERVICE PIPELINE ELECTRIC
		FENCE
		EDGE OF ROAD
		ELEVATION CONTOUR (MAJOR)
		ELEVATION CONTOUR (MINOR)
		RIGHT-OF-WAY
		EASEMENT

AB	AGGREGATE BASE	MAX	MAXIMUM
CL	CENTER LINE	MIN	MINIMUM
CLR	CLEAR	N	NORTHING
E	EASTING	(N)	NEW
(E)	EXISTING	N.T.S.	NOT TO SCALE
EL	ELEVATION	PCC	PORTLAND CEMENT CONCRETE
ELL	ELBOW	PUE	PUBLIC UTILITY EASEMENT
EP	EDGE OF PAVEMENT	RC	RELATIVE COMPACTION
EQ	EQUAL	REQ'D	REQUIRED
FG	FINISH GRADE	RT	RIGHT
HDPE	HIGH DENSITY POLYETHYLENE	SF	SQUARE FEET
INV	INVERT	STA	STATION
LF	LINEAR FEET	TYP	TYPICAL
LT	LEFT	W	WATER
		WM	WATER METER



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	2/22/2021
DESCRIPTION	
ECCWC USE PERMIT, ASA, GRADING MODIFICATION	

PROJECT NUMBER
16011.00

SHEET TITLE
NOTES, LEGEND
& ABBREVIATIONS

SCALE
1" = 2000'

SHEET NUMBER



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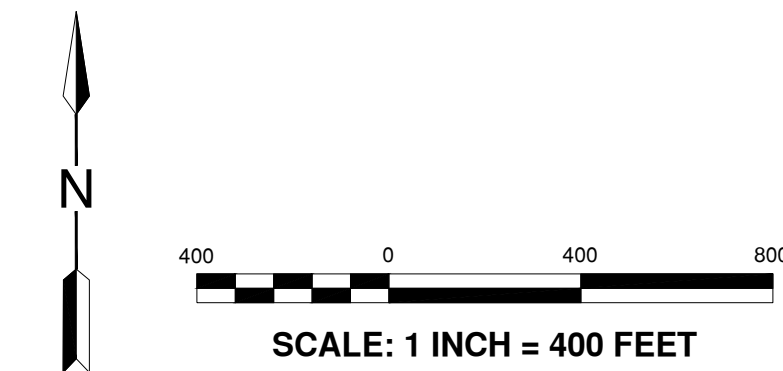
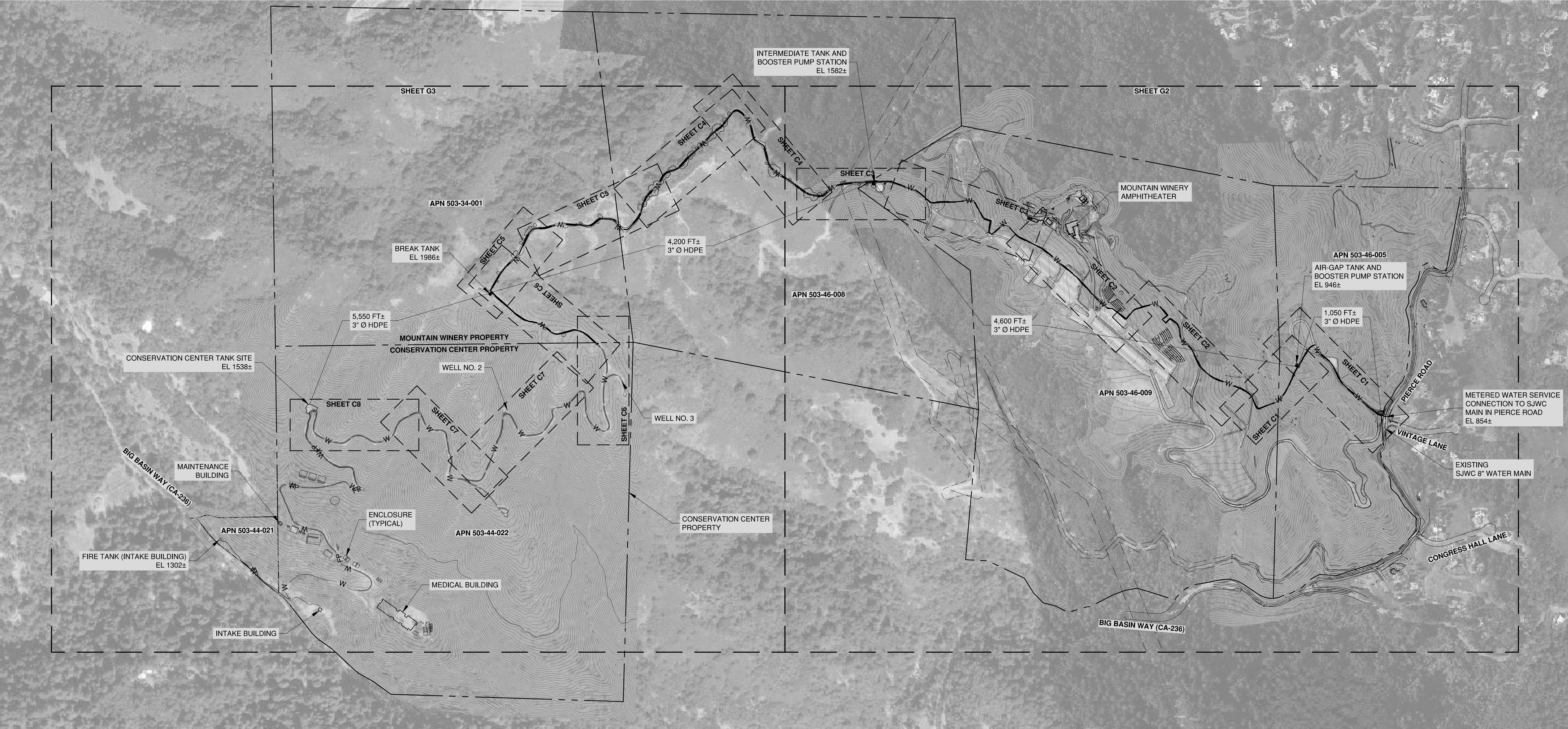
ISSUES AND REVISIONS	
NO.	DATE
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	ECCWC USE PERMIT, ASA, GRADING MODIFICATION

PROJECT NUMBER
16011.00

SHEET TITLE
OVERALL PLAN

SCALE
1" = 400'

SHEET NUMBER

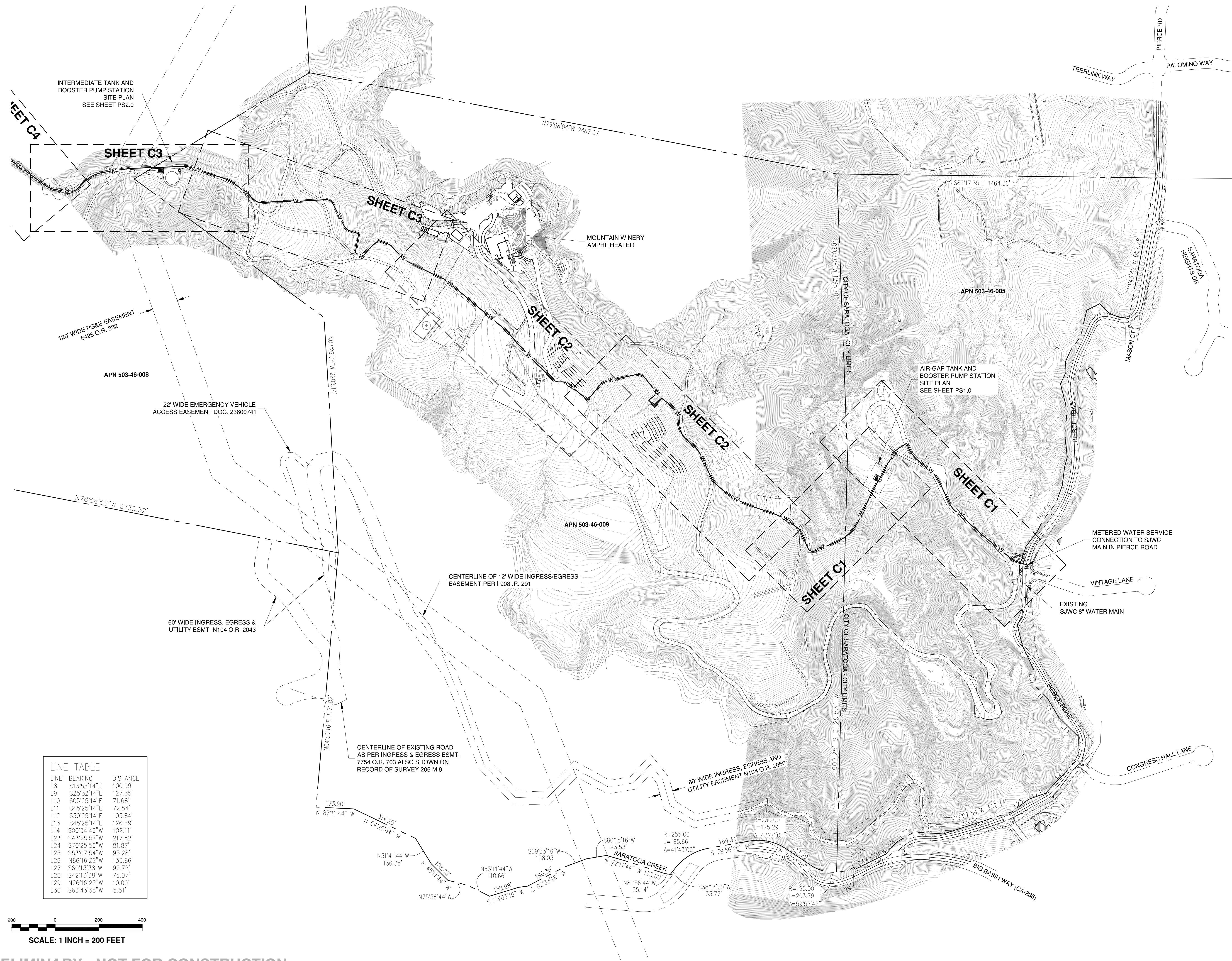


PRELIMINARY - NOT FOR CONSTRUCTION

G1

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SHEET NUMBER





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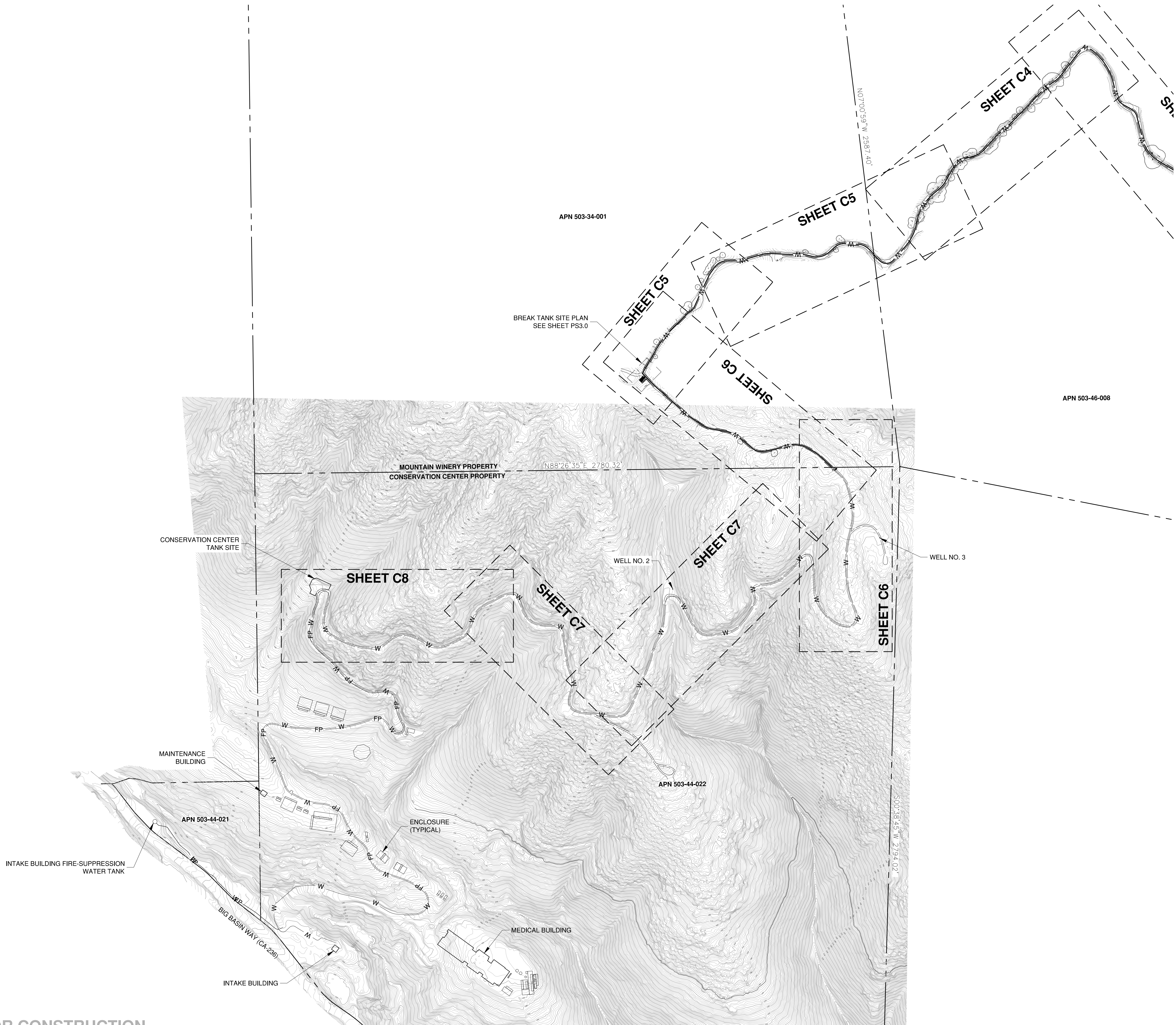
ISSUES AND REVISIONS	
NO.	DATE
1	2/22/2021
DESCRIPTION	ECCWC USE PERMIT, ASA, GRADING MODIFICATION

PROJECT NUMBER
16011.00

SHEET TITLE
PLAN - WEST

SCALE
1" = 200'

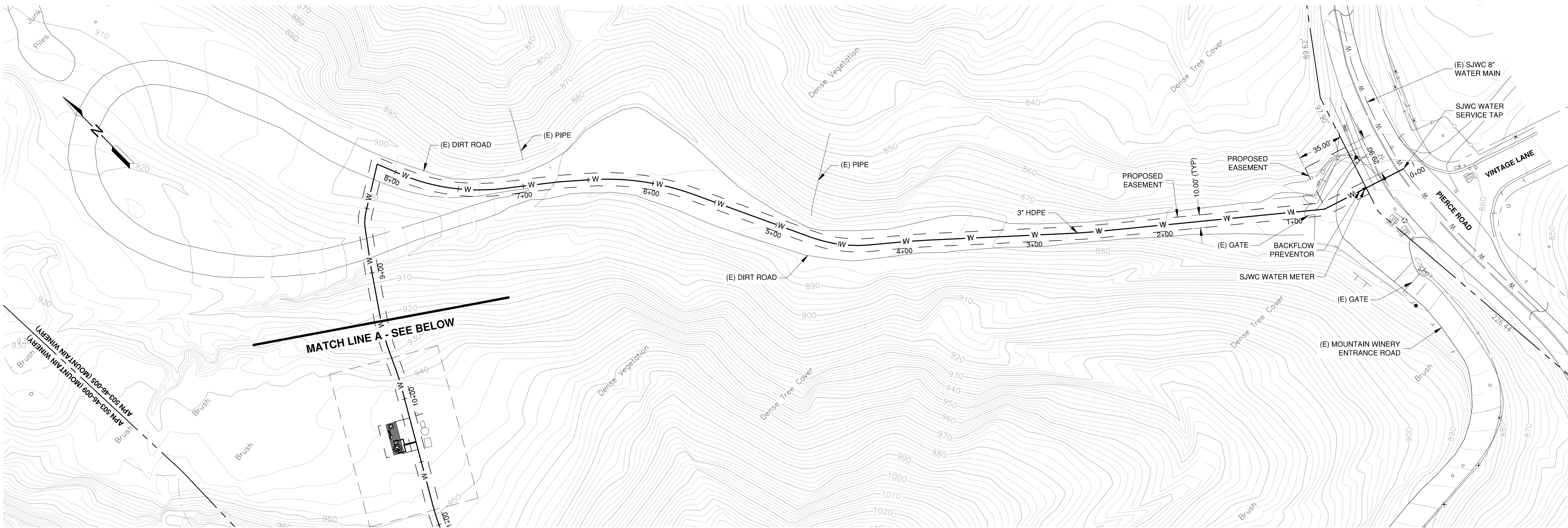
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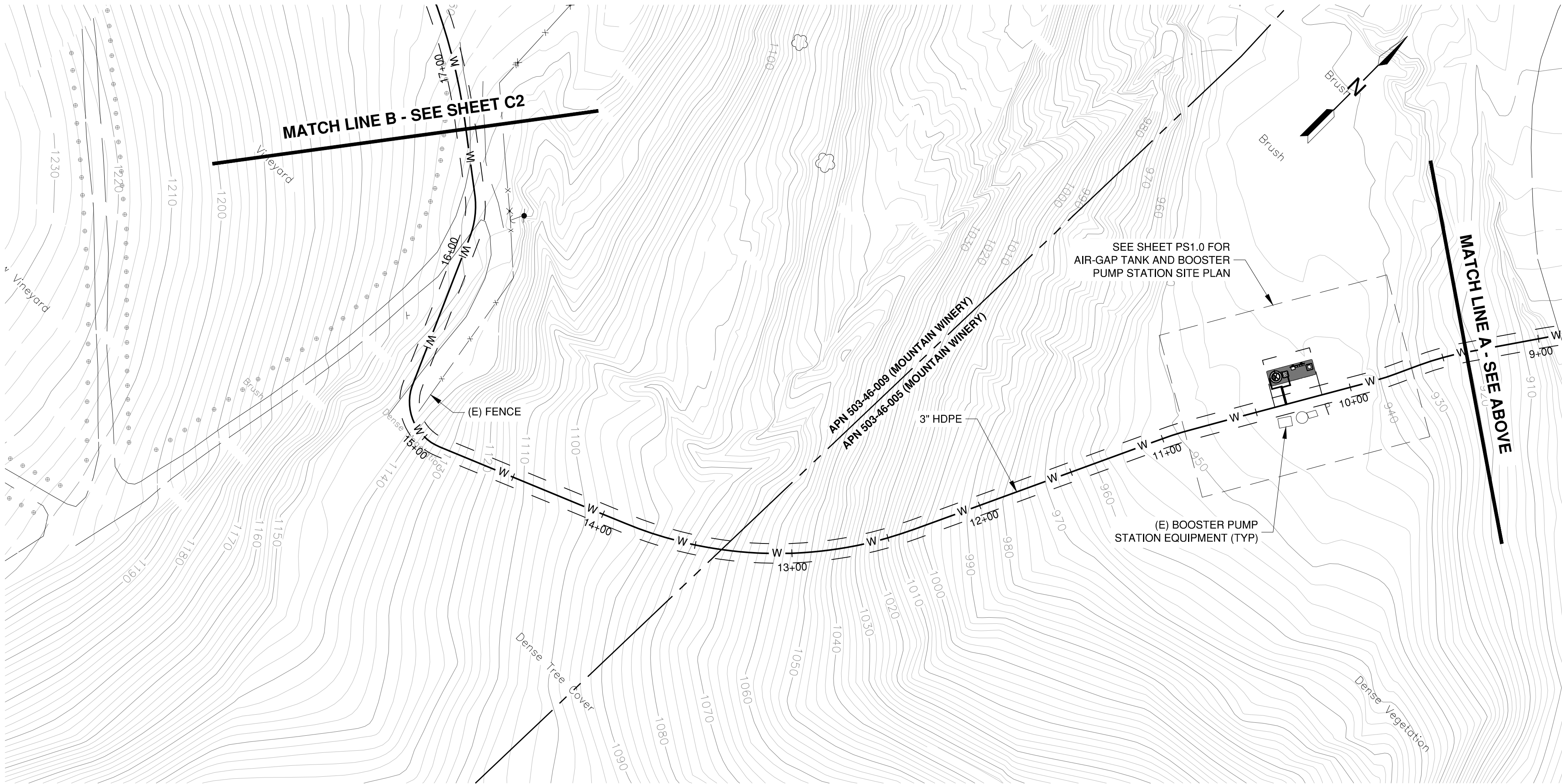
SCALE: 1 INCH = 200 FEET

PRELIMINARY - NOT FOR CONSTRUCTION

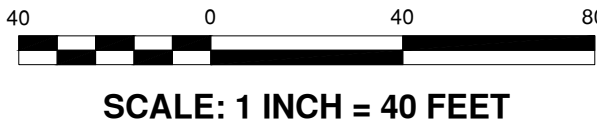
G3



- NOTES
1. PIPELINES SHALL BE 3 INCH-HDPE (HIGH DENSITY POLYETHYLENE) PIPE CONFORMING WITH THE REQUIREMENTS OF THE AWWA (AMERICAN WATER WORKS ASSOCIATION) C906 STANDARD FOR "POLYETHYLENE (PE) PRESSURE PIPE AND FITTINGS, 4 IN. THROUGH 65 IN. (100 MM THROUGH 1,650 MM); FOR WATERWORKS". HDPE PIPE SHALL BE "IRON PIPE SIZE" (IPS). HDPE PIPE AND FITTING JOINTS SHALL BE FUSED.
 2. SEE PLAN SHEET T2 FOR TREE PROTECTION REQUIREMENTS AND DETAILS.



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SARATOGA, CA



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(408) 246-4848

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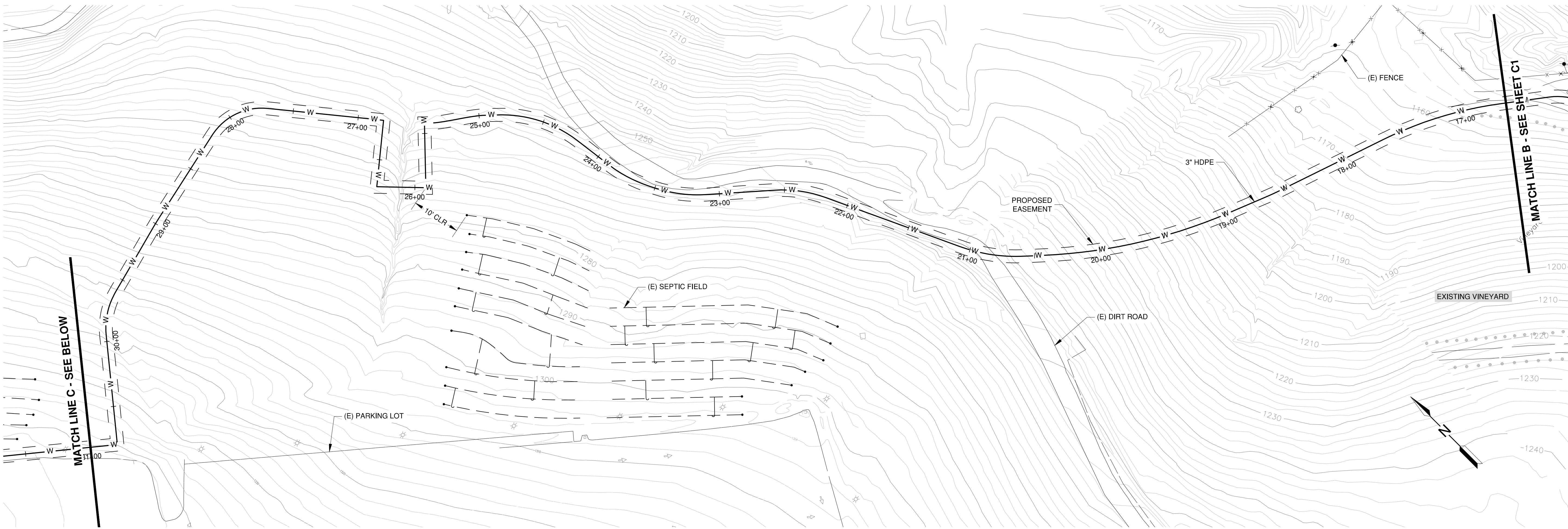
PROJECT NUMBER
16011.00

SHEET TITLE
PIPELINE PLAN

SCALE
1" = 40'

SHEET NUMBER

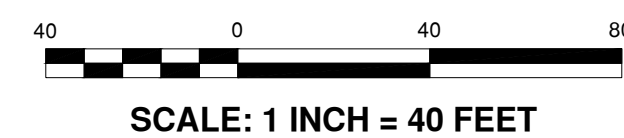
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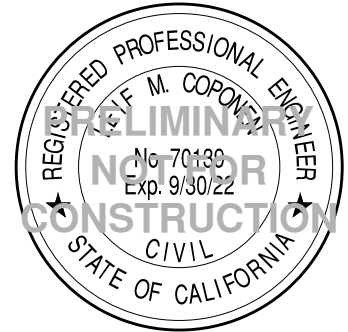
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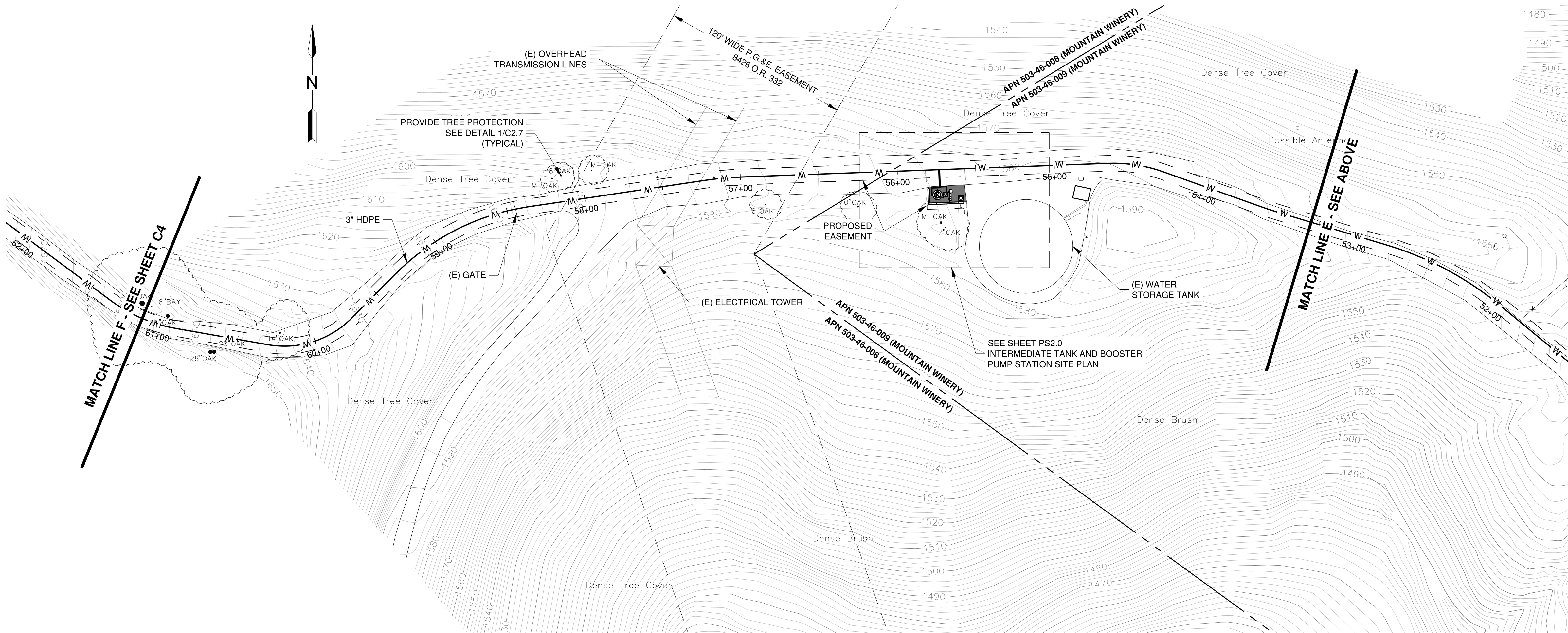
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DESCRIPTION	
ECCWC USE PERMIT, ASA, GRADING MODIFICATION	

PROJECT NUMBER	
16011.00	
SHEET TITLE	
PIPELINE PLAN	
SCALE	
1" = 40'	
PROJECT NUMBER	
16011.00	

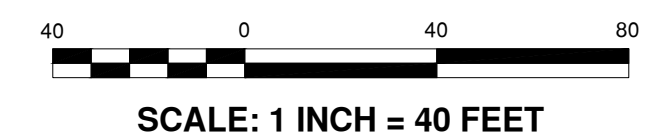
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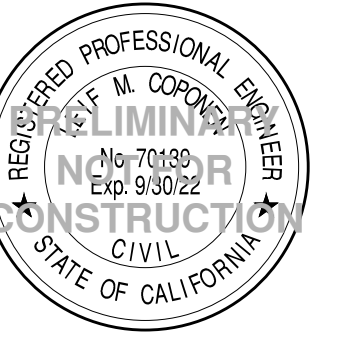
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PRELIMINARY - NOT FOR CONSTRUCTION



ELLISON CONSERVATION
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SARATOGA, CA



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2/22/2021	
DESCRIPTION	ECCWC USE PERMIT, ASA, GRADING MODIFICATION

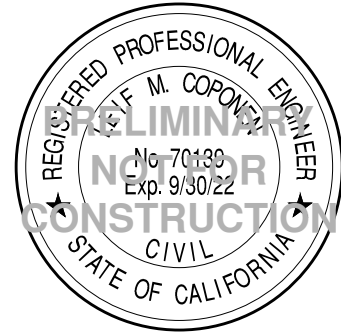
PROJECT NUMBER
16011.00

SHEET TITLE
PIPELINE PLAN

SCALE
1" = 40'

SHEET NUMBER

C3



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1	2/22/2021	ECCWC USE PERMIT, ASA, GRADING MODIFICATION

PROJECT NUMBER
16011.00

SHEET TITLE
PIPELINE PLAN

SCALE
1" = 40'

SHEET NUMBER

C4



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ISSUES AND REVISIONS	
NO.	DATE
2/22/2021	

DESCRIPTION	
ECCWC USE PERMIT, ASA, GRADING MODIFICATION	

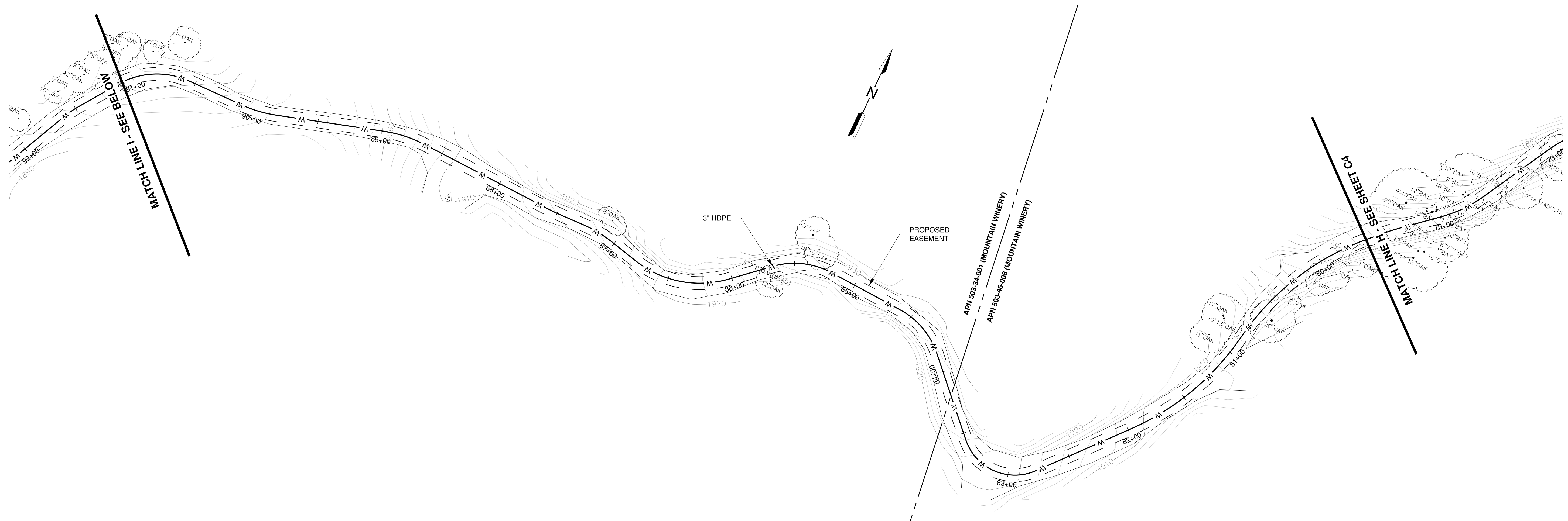
PROJECT NUMBER
16011.00

SHEET TITLE
PIPELINE PLAN

SCALE
1" = 40'

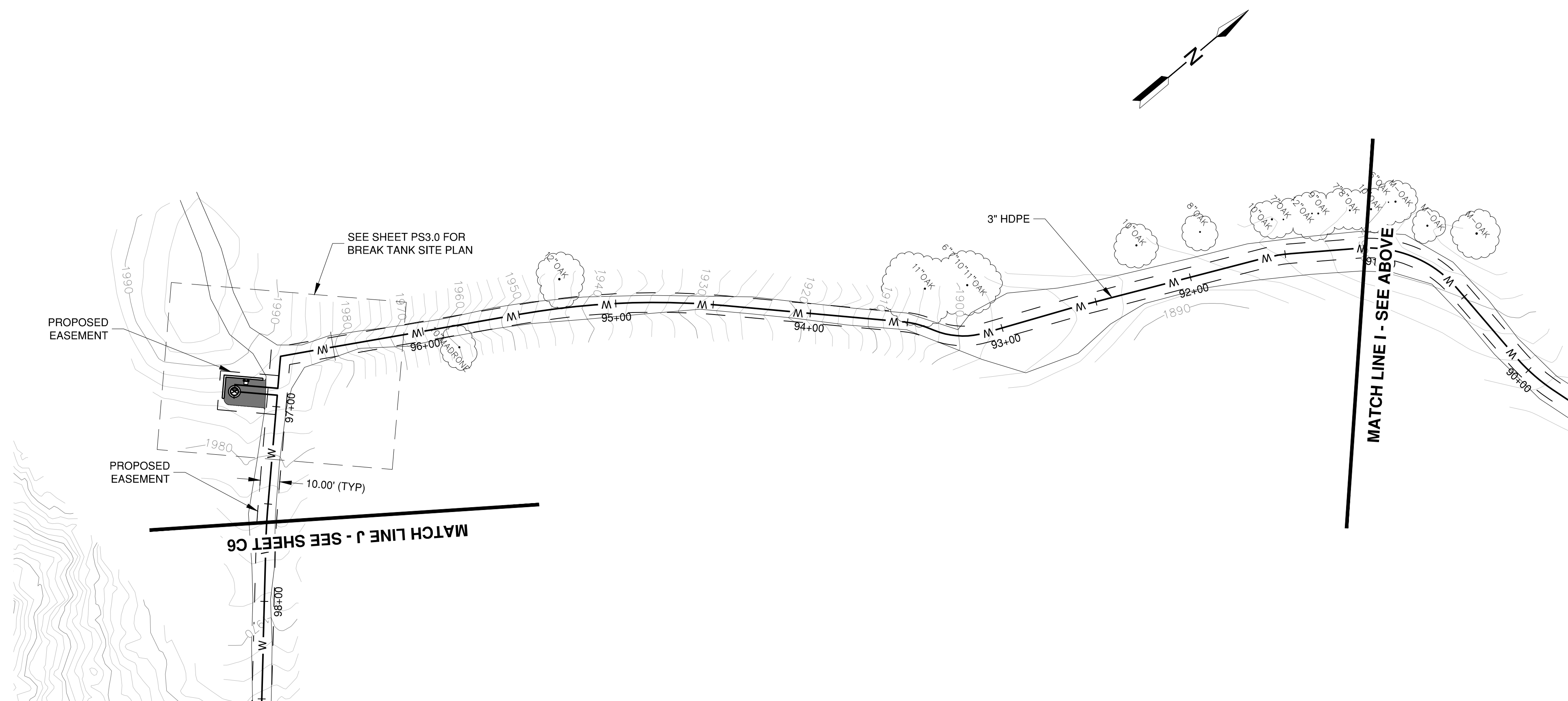
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C5

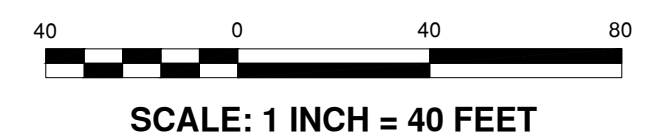


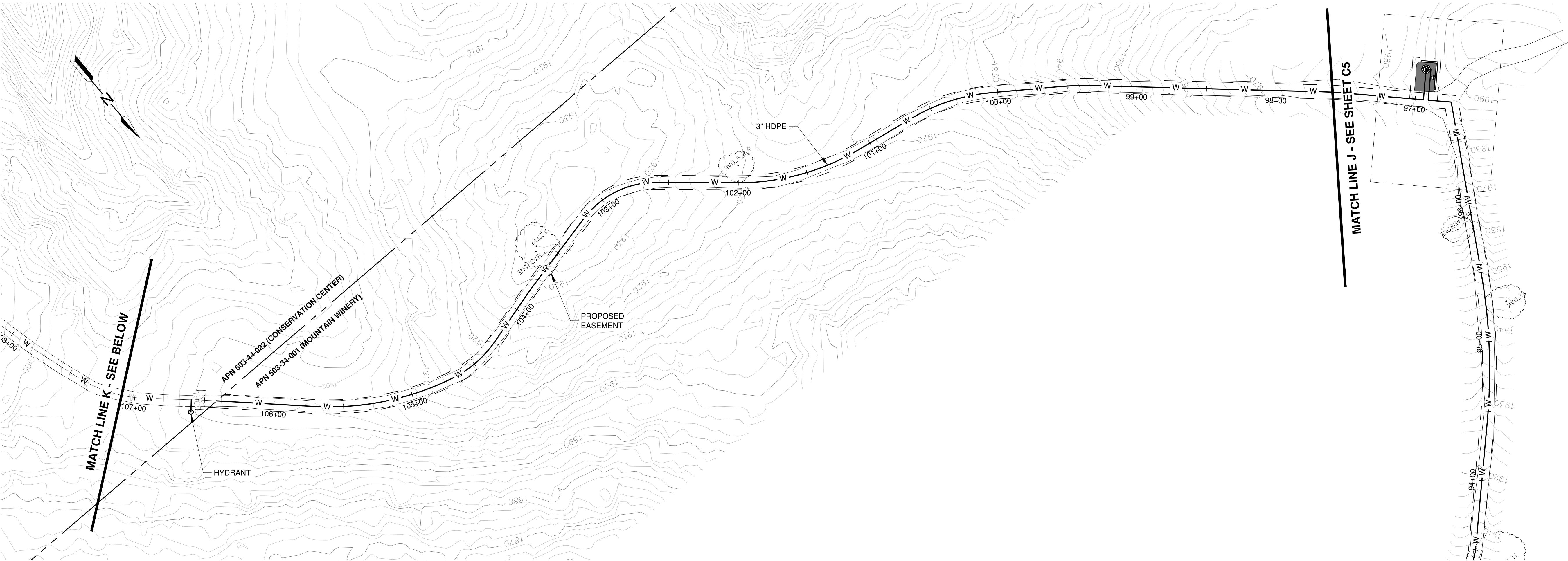
NOTES

1. PIPELINES SHALL BE 3 INCH-HDPE (HIGH DENSITY POLYETHYLENE) PIPE CONFORMING WITH THE REQUIREMENTS OF THE AWWA (AMERICAN WATER WORKS ASSOCIATION) C906 STANDARD FOR "POLYETHYLENE (PE) PRESSURE PIPE AND FITTINGS, 4 IN. THROUGH 65 IN. (100 MM THROUGH 1,650 MM), FOR WATERWORKS". HDPE PIPE SHALL BE "IRON PIPE SIZE" (IPS), HDPE PIPE AND FITTING JOINTS SHALL BE FUSED.
2. SEE PLAN SHEET T2 FOR TREE PROTECTION REQUIREMENTS AND DETAILS.

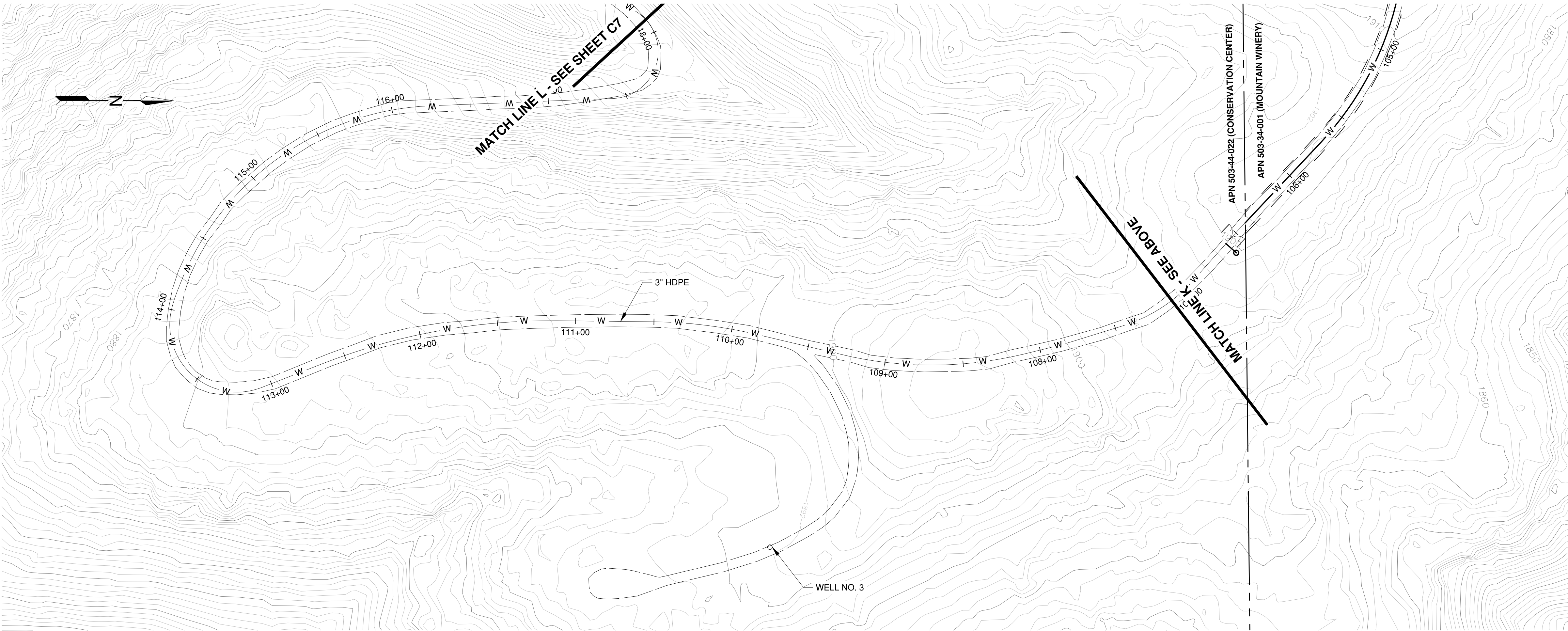


PRELIMINARY - NOT FOR CONSTRUCTION

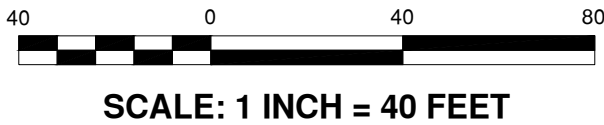




- NOTES
- PIPELINES SHOWN ON CONSERVATION CENTER PROPERTY ARE SCHEMATIC. SEE LEA + BRAZE "ELLISON CONSERVATION CENTER FOR WILDLIFE CARE" PLANS FOR DETAILS.
 - SEE PLAN SHEET T2 FOR TREE PROTECTION REQUIREMENTS AND DETAILS.



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ELLISON CONSERVATION
CENTER FOR WILDLIFE CARE
SARATOGA, CA

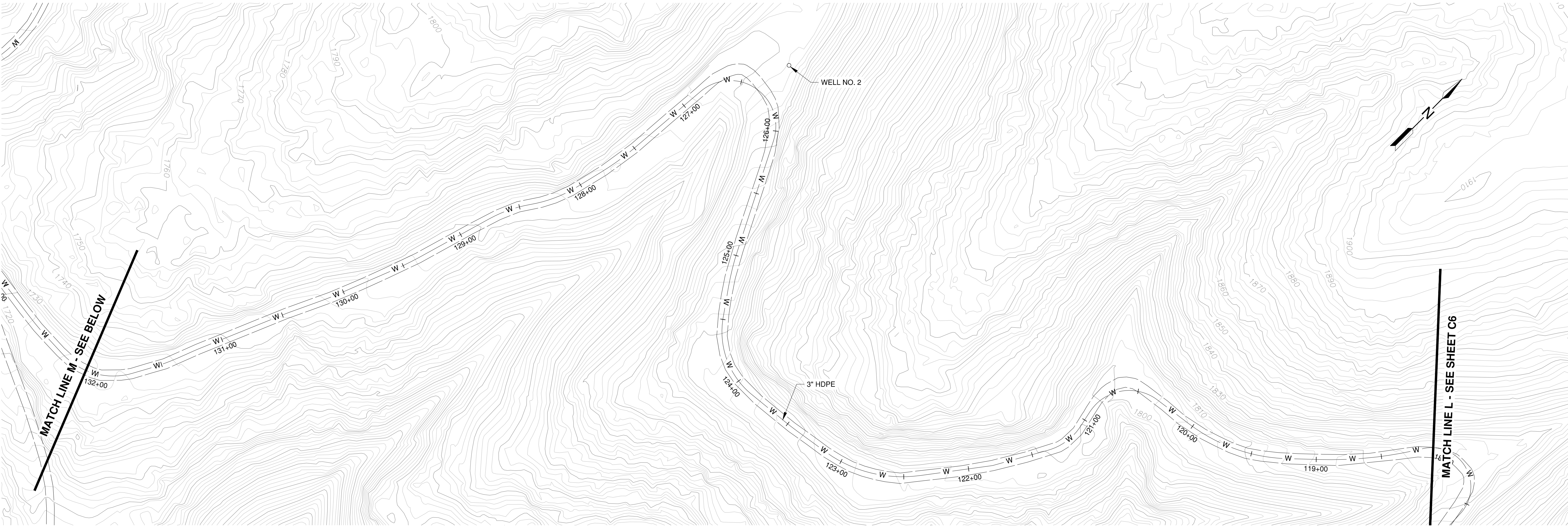


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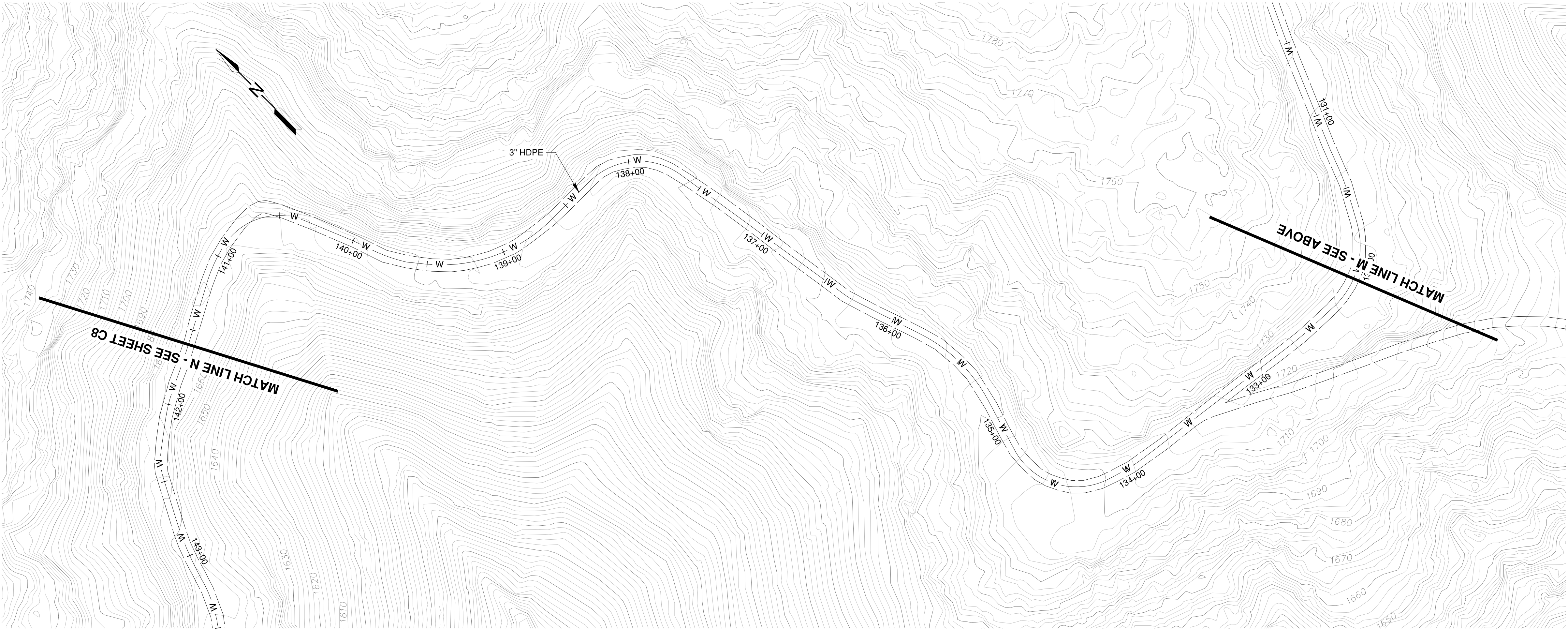
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NO.	DATE
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DESCRIPTION	ECCWC USE PERMIT, ASA, GRADING MODIFICATION

PROJECT NUMBER	16011.00
SHEET TITLE	PIPELINE PLAN
SCALE	1" = 40'
SHEET NUMBER	

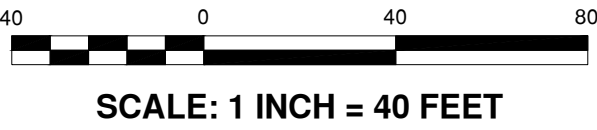
C6



- NOTES
- PIPELINES SHOWN ON CONSERVATION CENTER PROPERTY ARE SCHEMATIC. SEE LEA + BRAZE "ELLISON CONSERVATION CENTER FOR WILDLIFE CARE" PLANS FOR DETAILS.
 - SEE PLAN SHEET T2 FOR TREE PROTECTION REQUIREMENTS AND DETAILS.



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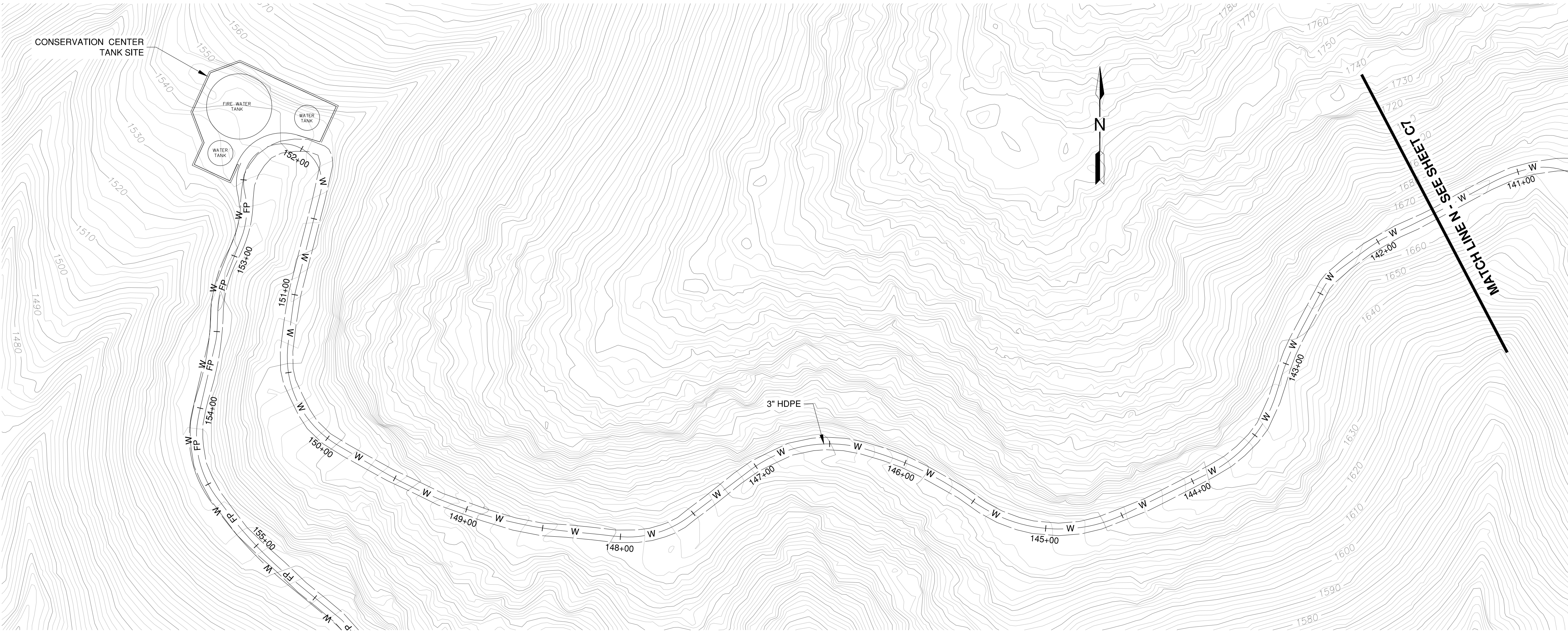
ELLISON CONSERVATION
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SARATOGA, CA



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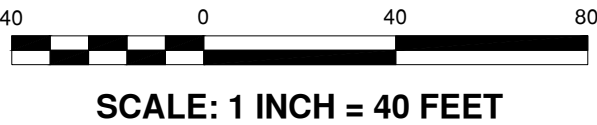
ISSUES AND REVISIONS	
NO.	DATE
1	2/22/2021
DESCRIPTION	
ECCWC USE PERMIT, ASA GRADING MODIFICATION	

PROJECT NUMBER	
16011.00	
SHEET TITLE	
PIPELINE PLAN	
SCALE	
1" = 40'	
SHEET NUMBER	
C7	



- NOTES
- PIPELINES SHOWN ON CONSERVATION CENTER PROPERTY ARE SCHEMATIC. SEE LEA + BRAZE "ELLISON CONSERVATION CENTER FOR WILDLIFE CARE" PLANS FOR DETAILS.
 - SEE PLAN SHEET T2 FOR TREE PROTECTION REQUIREMENTS AND DETAILS.

PRELIMINARY - NOT FOR CONSTRUCTION



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SHEET TITLE
PIPELINE PLAN

SCALE
1" = 40'

SHEET NUMBER



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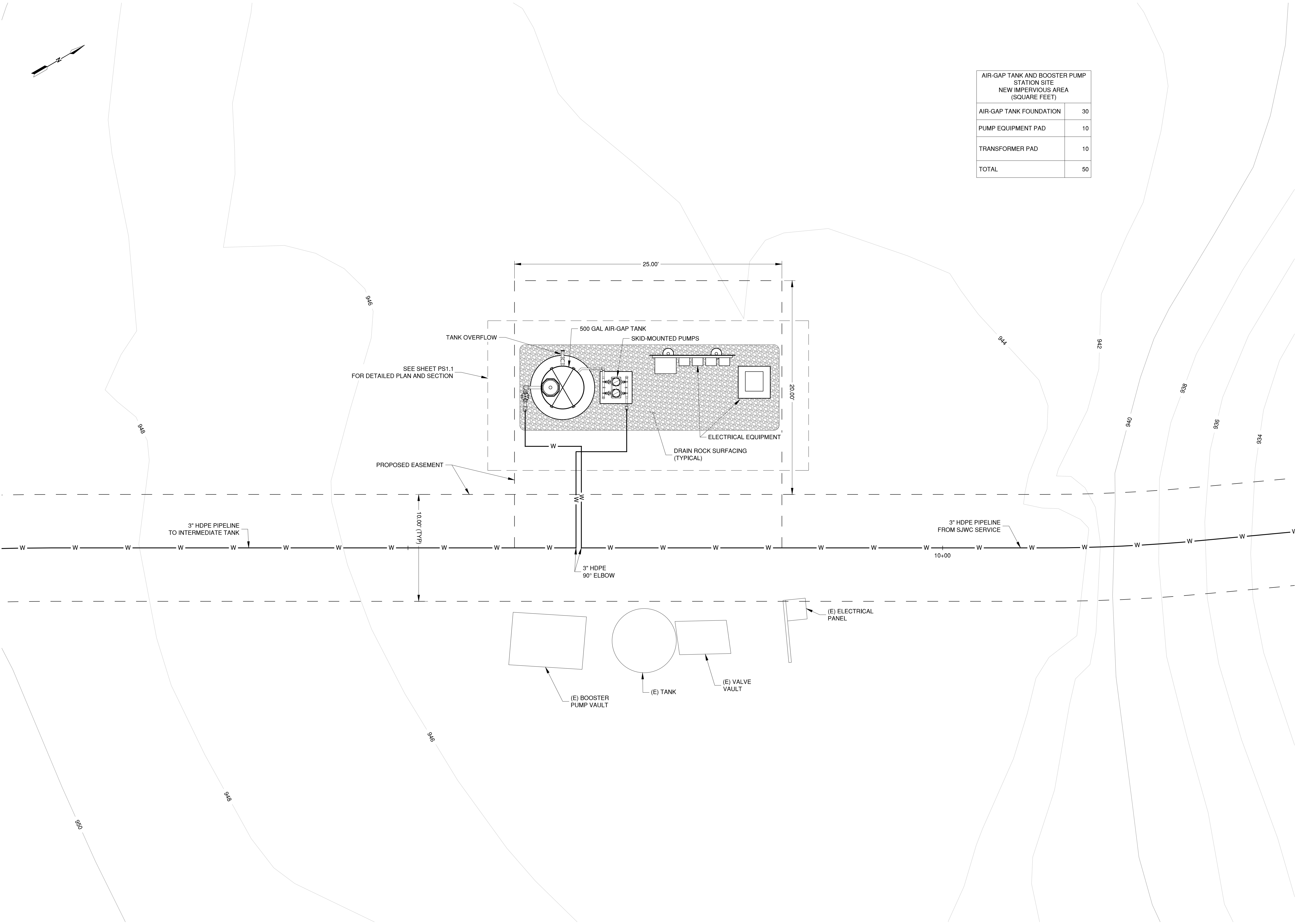
SHEET TITLE
AIR-GAP TANK AND
BOOSTER PUMP STATION
SITE PLAN

SCALE
1" = 4'-0"

SHEET NUMBER

PS1.0

AIR-GAP TANK AND BOOSTER PUMP STATION SITE NEW IMPERVIOUS AREA (SQUARE FEET)	
AIR-GAP TANK FOUNDATION	30
PUMP EQUIPMENT PAD	10
TRANSFORMER PAD	10
TOTAL	50



PRELIMINARY - NOT FOR CONSTRUCTION

4 0 4 8
SCALE: 1 INCH = 4 FEET



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PROJECT NUMBER
16011.00

SHEET TITLE
AIR-GAP TANK AND
BOOSTER PUMP STATION
PLAN AND SECTIONS

SCALE
3/4" = 1'-0"

SHEET NUMBER

NOTES

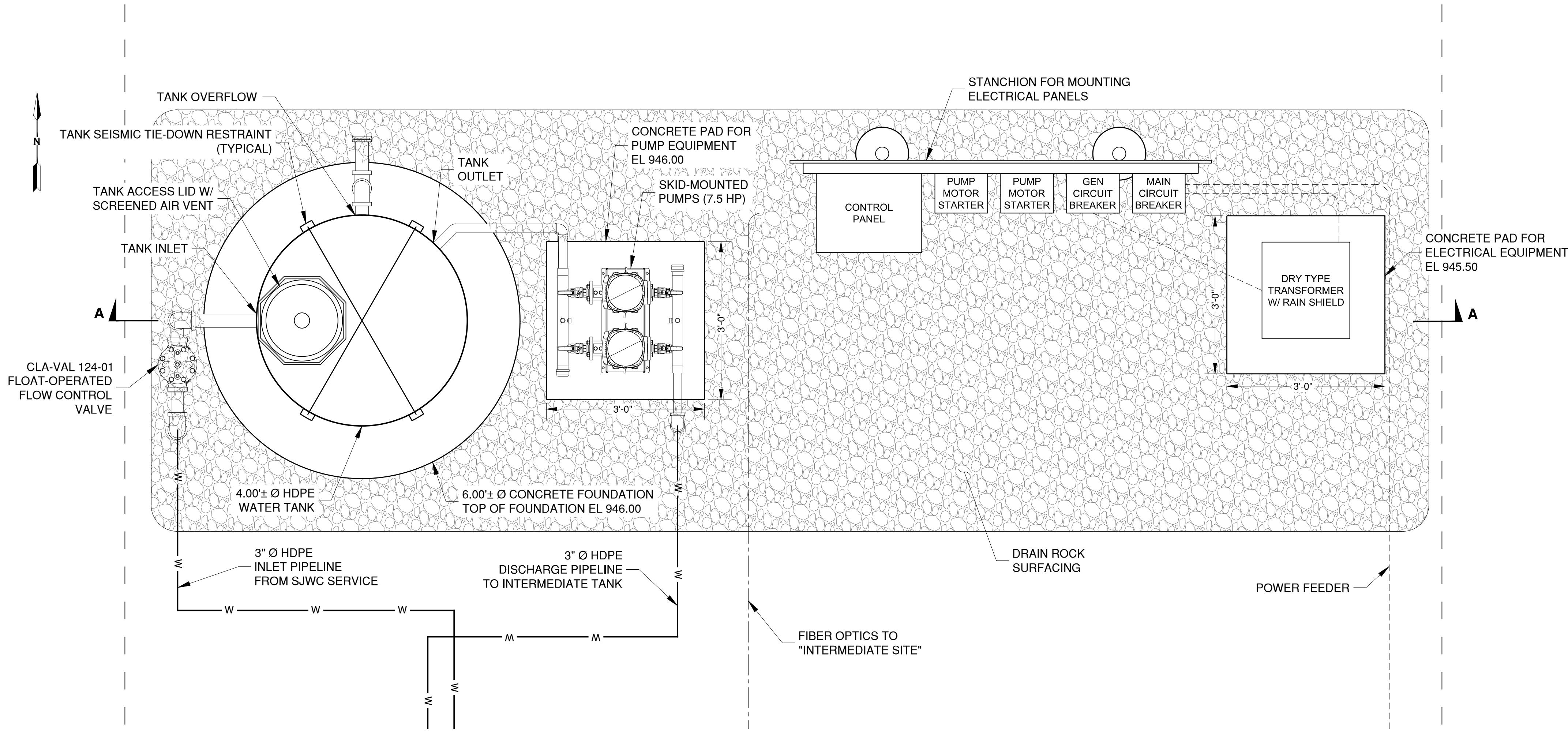
GENERAL:
1. ALL COMPONENTS IN CONTACT WITH DRINKING WATER SHALL BE NSF-61 CERTIFIED FOR DRINKING WATER USE.

TANK:
1. FLOAT-OPERATED FLOW CONTROL VALVE TO BE CALIBRATED TO A FLOW RATE OF APPROXIMATELY 30 GPM (GALLONS PER MINUTE).
2. INSTALL 3/4" Ø COPPER TUBING FROM
• INLET-SIDE OF FLOW CONTROL VALVE TO CLA-VAL CF1-C1 FLOAT CONTROL SUPPLY PORT
• COVER OF FLOW CONTROL VALVE TO CLA-VAL CF1-C1 FLOAT CONTROL PORT 1

PUMP STATION:
1. FOR THE AIR-GAP BOOSTER PUMP STATION, PUMPS SHALL BE GRUNDFOS MODEL CR 5-24, RATED FOR PUMPING 20 GPM AT 680 FEET OF TDH (TOTAL DYNAMIC HEAD). PUMP MOTORS SHALL BE RATED FOR 7.5 HORSEPOWER EACH AND DESIGNED FOR _____ VOLT, _____ PHASE POWER SUPPLY.
2. ALL PUMP STATION COMPONENTS AND ELECTRICAL CONDUIT CONNECTIONS SHALL BE RATED FOR OUTDOOR USE.
3. PUMPS SHALL BE CONTROLLED TO START AND STOP BASED ON LEVEL SIGNALS FROM THE INTERMEDIATE TANK.
4. PUMPS SHALL BE CONTROLLED TO ALTERNATE.

ANCHORAGE:
1. PUMPING SYSTEM AND CONTROL PANELS SHALL BE SEISMICALLY ANCHORED TO CONCRETE SLAB. CONTRACTOR SHALL PROVIDE SEISMIC CALCULATIONS AND DETAILS CONFORMING TO THE CALIFORNIA BUILDING CODE, VERIFYING THAT SEISMIC LOADS ARE PROPERLY RESISTED. CALCULATIONS SHALL BE REVIEWED BY THE ENGINEER.

PIPE AND VALVES
1. STAINLESS STEEL PIPE
• STEEL PIPE SHALL BE SCHEDULE 40 STAINLESS STEEL CONFORMING TO ANSI/ASTM A312.
• PIPE SHALL BE THREADED UNLESS OTHERWISE NOTED.
2. VALVES
• GATE VALVES SHALL BE RESILIENT SEATED GATE VALVES CONFORMING TO AWWA C509.
• BALL VALVES SHALL BE NO-LEAD BRASS AND NSF-61 CERTIFIED. BALL VALVES SHALL BE STOCKHAM MODEL LF-T-255-FB-P, OR EQUAL.
3. PIPE SUPPORT
• UNISTRUT AND HARDWARE SHALL BE STAINLESS STEEL, TYPE 316.

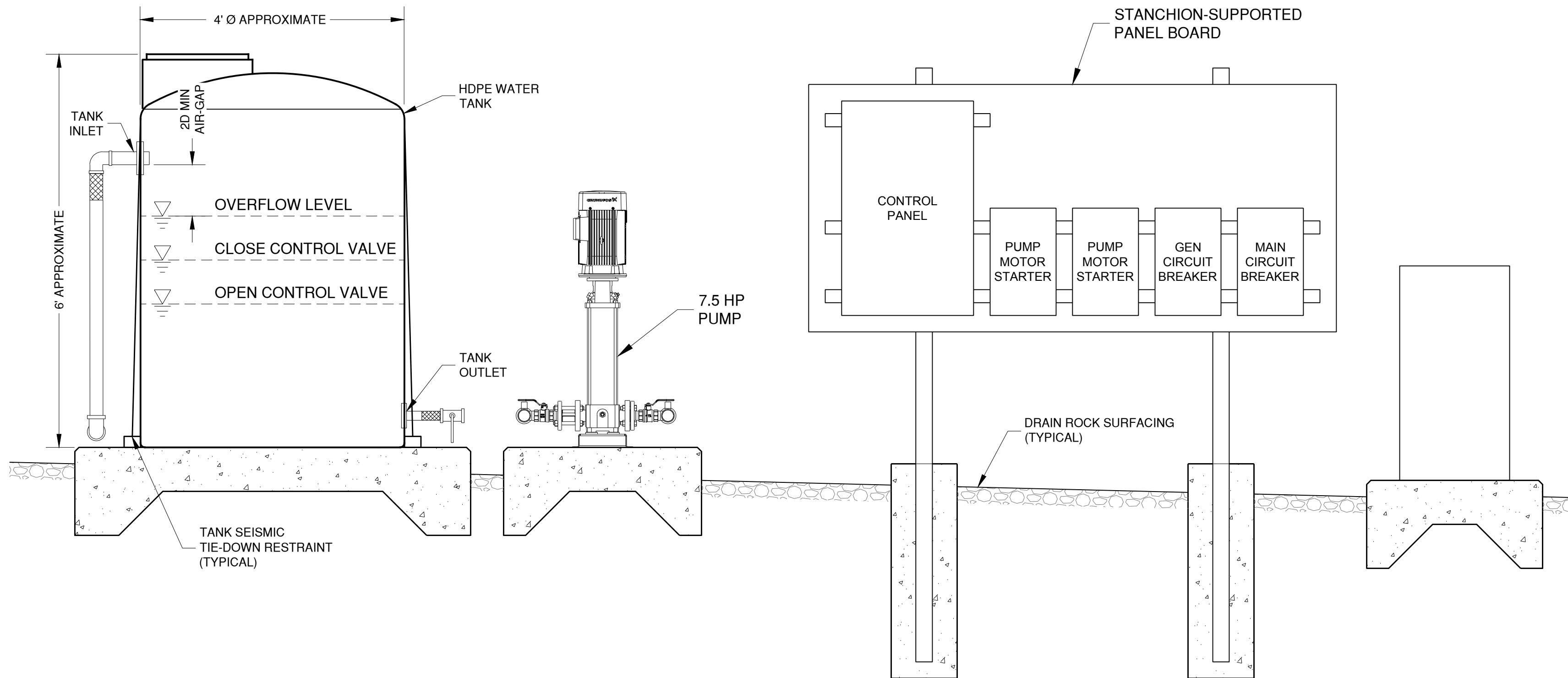


PLAN

SCALE: 3/4" = 1'-0"

1

PS1.1



SECTION

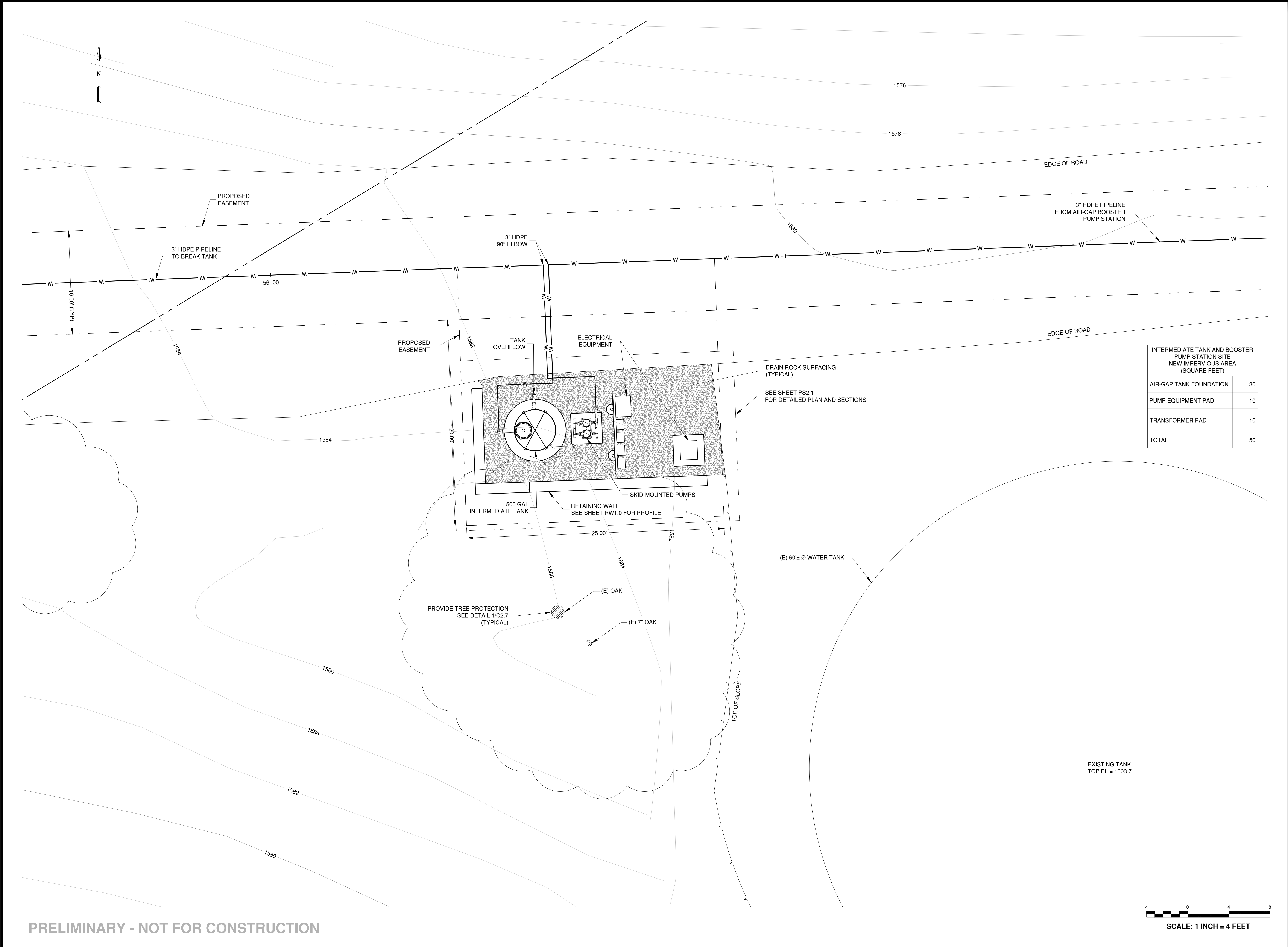
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PS1.1

PRELIMINARY - NOT FOR CONSTRUCTION

PS1.1



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ISSUES AND REVISIONS	
NO.	DATE
2/22/2021	DESCRIPTION
	ECCWC USE PERMIT, ASA, GRADING MODIFICATION

PROJECT NUMBER
16011.00

SHEET TITLE
INTERMEDIATE TANK AND
BOOSTER PUMP STATION
SITE PLAN

SCALE
1" = 4'-0"

SHEET NUMBER

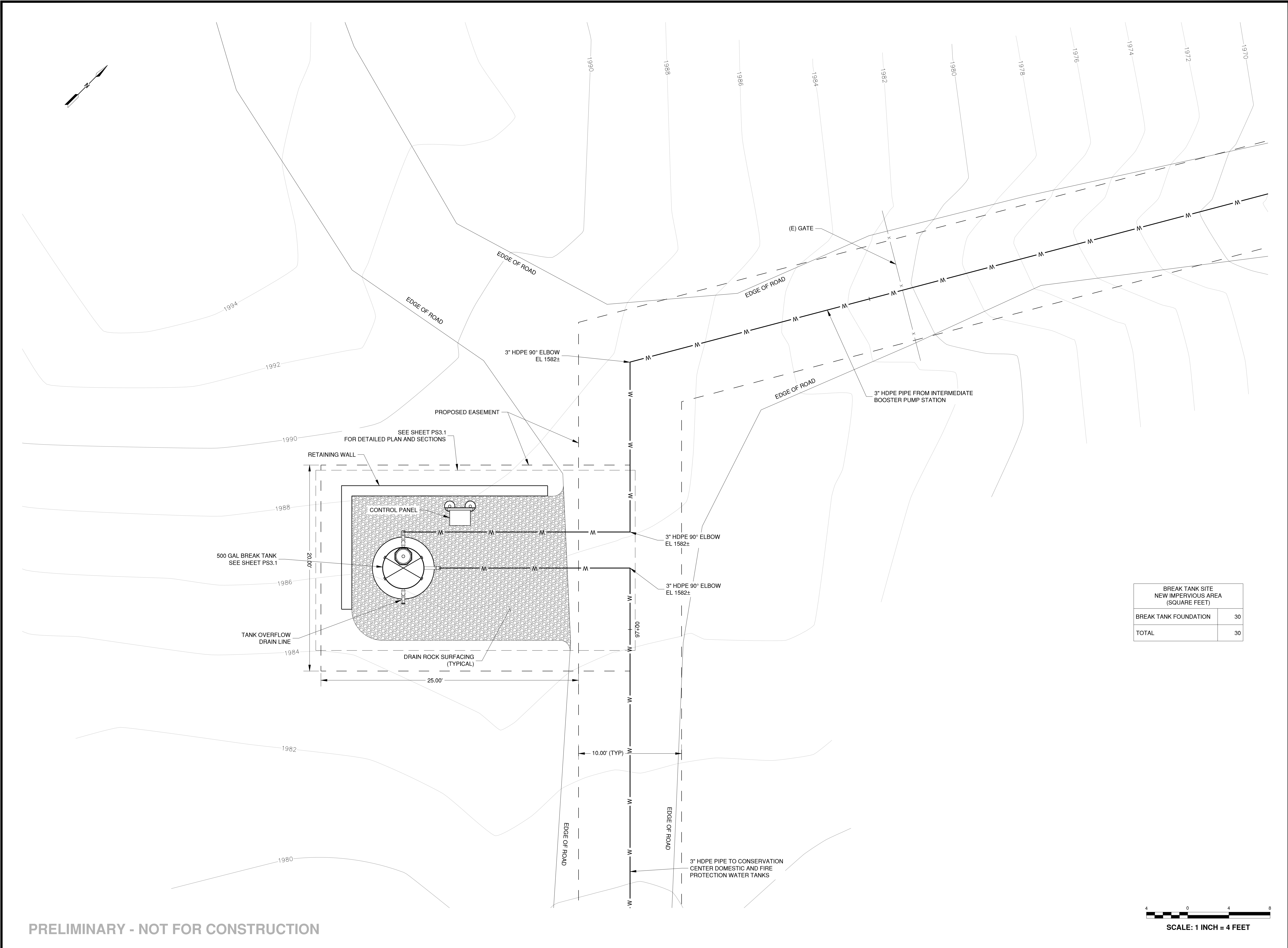
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PROJECT NUMBER	16011.00
SHEET TITLE	
INTERMEDIATE TANK AND BOOSTER PUMP STATION PLAN AND SECTIONS	
SCALE	
3/4" = 1'-0"	
SHEET NUMBER	



PS2.1



ISSUES AND REVISIONS	
NO.	DATE
2/22/2021	
DESCRIPTION	ECCWC USE PERMIT, ASA, GRADING MODIFICATION

PROJECT NUMBER
16011.00

SHEET TITLE
BREAK TANK
SITE PLAN

SCALE
1" = 4'-0"

SHEET NUMBER



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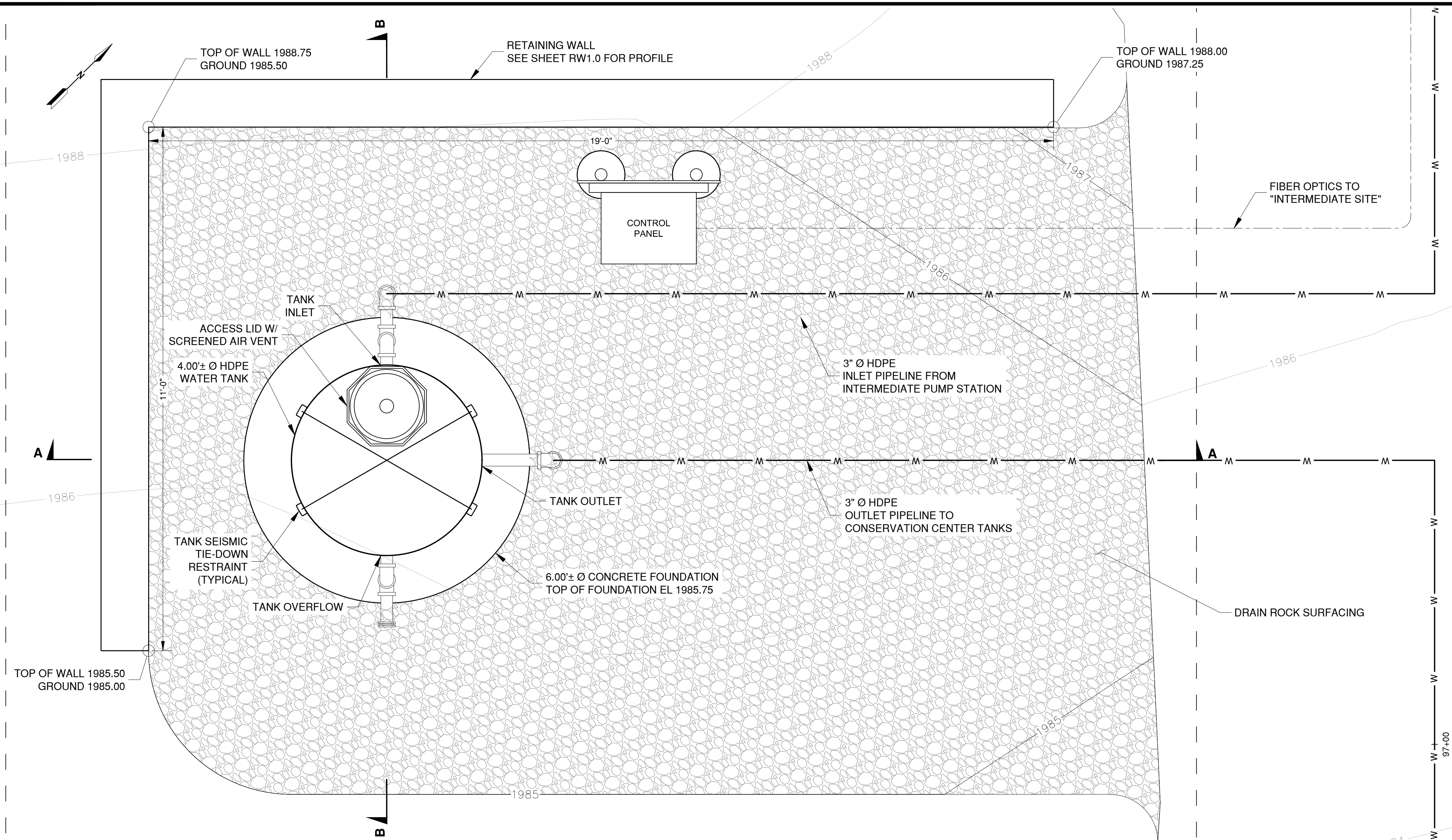
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NO.	DATE
	DESCRIPTION
2/22/2021	ECCWC USE PERMIT, ASA, GRADING MODIFICATION

PROJECT NUMBER
16011.00

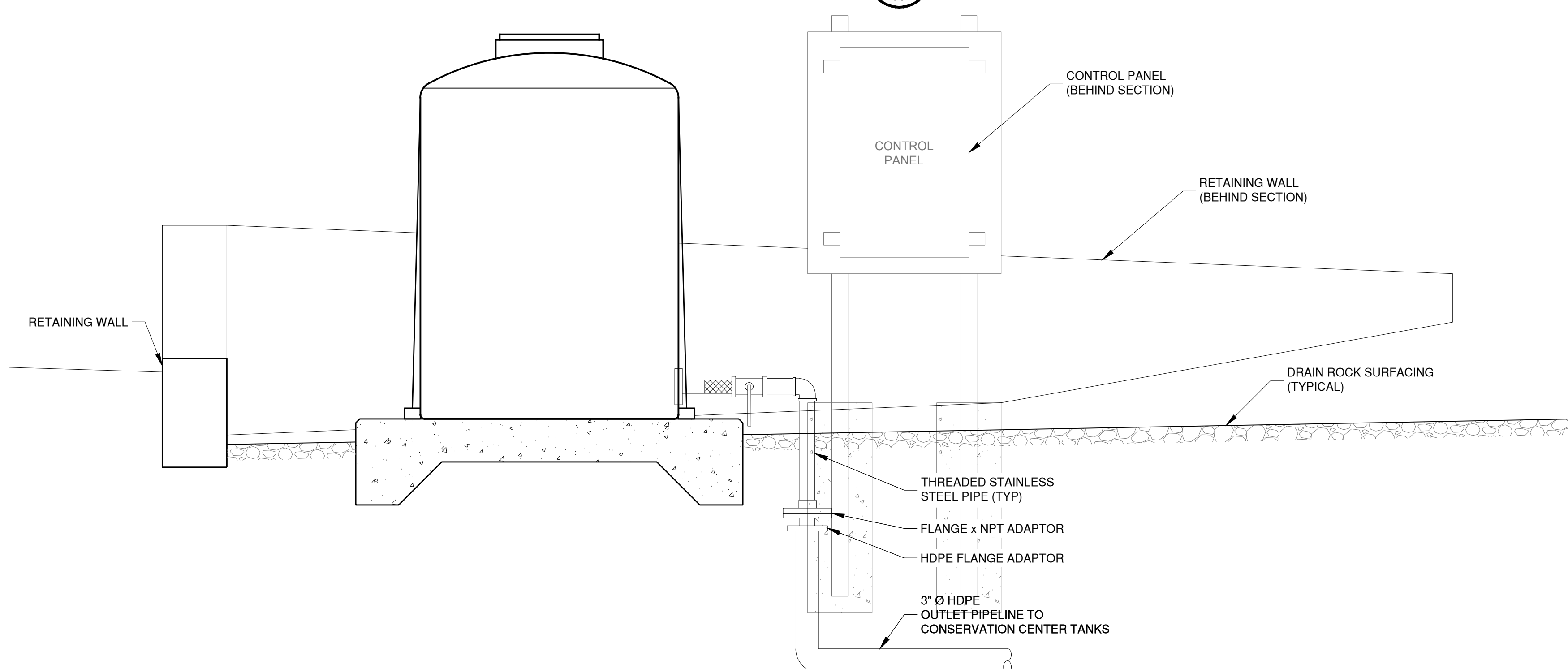
SHEET TITLE
BREAK TANK
PLAN AND SECTIONS

SCALE
1/4" = 1'-0"

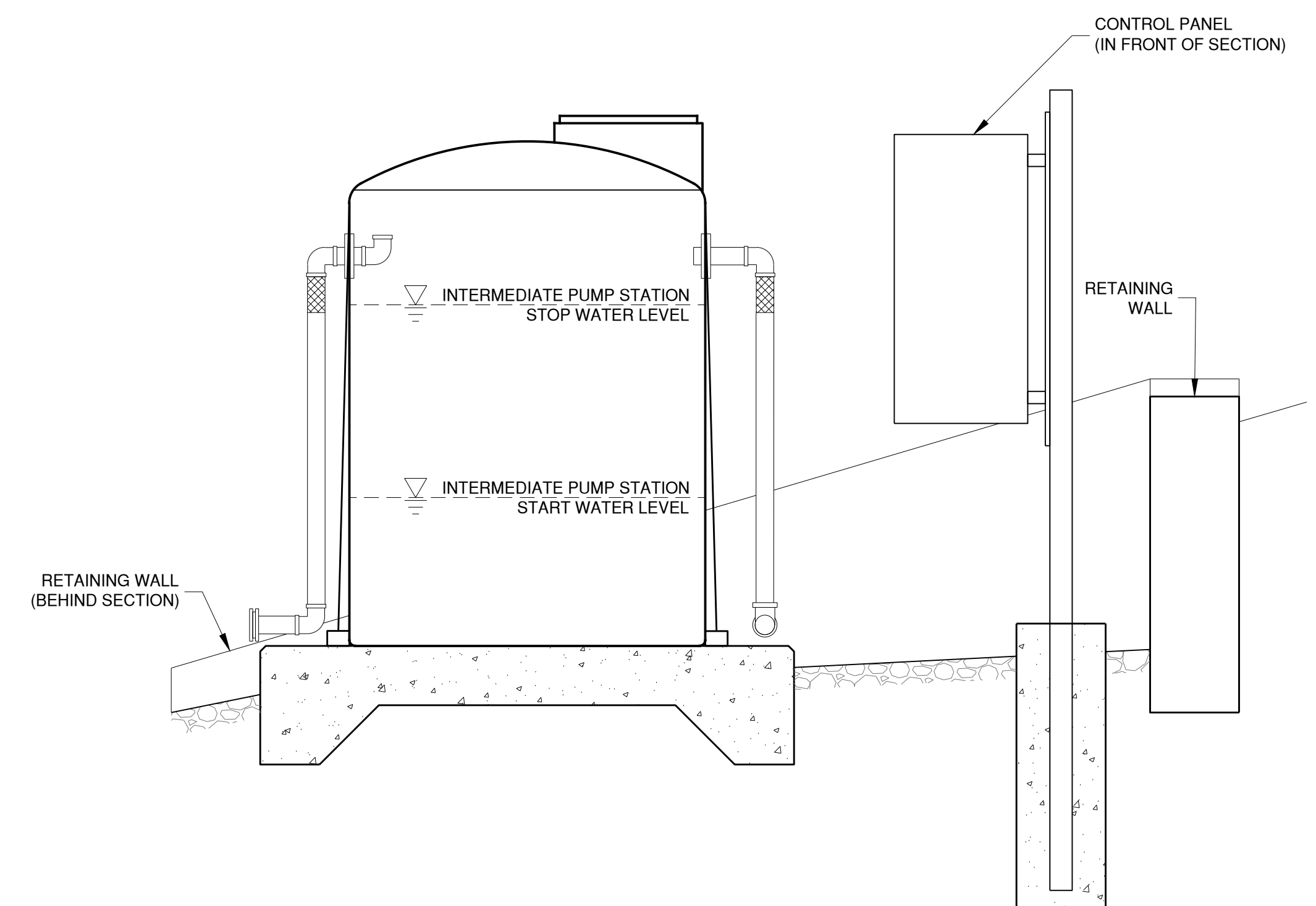
SHEET NUMBER



BREAK TANK PLAN 1
SCALE: 3/4" = 1'-0" PS 1



SECTION



SECTION

PRELIMINARY - NOT FOR CONSTRUCTION

PS3.1



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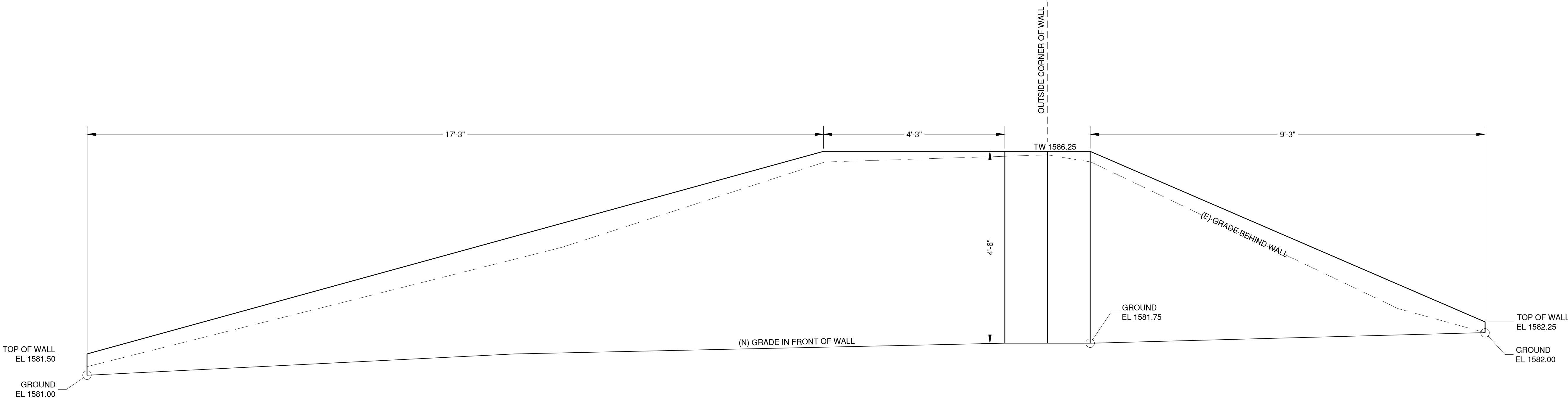
ISSUES AND REVISIONS	
NO.	DATE
2/22/2021	DESCRIPTION
	ECCWC USE PERMIT, ASA, GRADING MODIFICATION

PROJECT NUMBER
16011.00

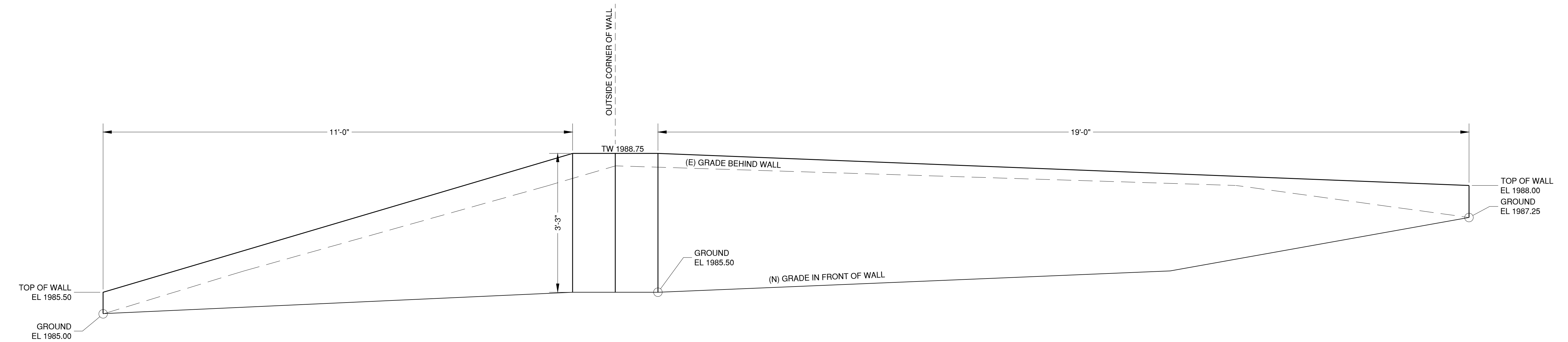
SHEET TITLE
RETAINING WALL
PROFILES

SCALE
3/4" = 1'-0"

SHEET NUMBER



INTERMEDIATE SITE RETAINING WALL PROFILE 1
SCALE: 3/4" = 1'-0"



BREAK TANK SITE RETAINING WALL PROFILE 2
SCALE: 3/4" = 1'-0"