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

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PRELIMINARY - NOT FOR CONSTRUCTION

WATER SERVICE

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE SARATOGA, CA



PROJECT DESCRIPTION

. 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

RETAINING WALLS

1. THE PROPOSED RETAINING WALLS SHALL REQUIRE A SEPARATE BUILDING PERMIT FROM THE BUILDING DEPARTMENT PRIOR TO UTILITY PERMIT ISSUANCE.

GRADING

1. ALL EXCESS CUT MATERIAL SHALL BE OF-HAULED TO A COUNTY-APPROVED DUMP SITE.

2. UTILITY TRENCH EXCAVATION MATERIAL SHALL BE USED FOR TRENCH BACKFILL.

3. GRADING FOR INSTALLATION OF THE FOUNDATIONS AND RETAINING WALLS FOR THE WATER SERVICE PUMP STATION AND TANK SITES IS AS FOLLOWS.

	EARTHWORK QUANTITY (CUBIC YARDS)		MAXIMUM DEPTH (FEET)	
IMPROVEMENT	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 ARE (SQUARE FEET)	A
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



NO. DATE 5/10/2021 ISSUES AND REVISIONS DESCRIPTION ECCWC USE PERMIT, ASA, GRADING MODIFICATION

16011.00

PROJECT NUMBER

SHEET TITLE TITLE SHEET

> SCALE 1" = 2000'

TREE PROTECTION

- 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.



EXISTING TREE PROTECTION DETAILS

- 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 IN CORPORA TED 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 TREE PROTECTION DETAIL

PRELIMINARY - NOT FOR CONSTRUCTION

REFERENCES

- 1. TOPOGRAPHIC SURVEY BY LEA & BRAZE ENGINEERING INC. TITLE: "PARTIAL TOPOGRAPHIC SURVEY" DATE: 1-15-2019 JOB#: 2181406
- TITLE: "ROADWAY EASEMENT EXHIBIT" DATE:7-9-2020 JOB#: 2181406

1 ½" DATA 3" WATER 3" WATER SPARE

3' MIN COVER

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

2. PROPOSED EASEMENT EXHIBIT BY LEA & BRAZE ENGINEERING INC.

3. AUTOCAD FILES PROVIDED BY HANNA-BRUNETTI, INC. ON 12-2-2020 AND 2-2-2021.



TRENCH DETAIL

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE SARATOGA, CA



LEGEND

PROPOSED

_____ W ____

EXISTING

____X____X_____

WATER SERVICE PIPELINE ELECTRIC FENCE EDGE OF ROAD ELEVATION CONTOUR (MAJOR) ELEVATION CONTOUR (MINOR) **RIGHT-OF-WAY** EASEMENT

DESCRIPTION

ABBREVIATIONS

AB	AGGREGATE BASE
CL	CENTER LINE
CLR	CLEAR
E	EASTING
(E)	EXISTING
EL	ELEVATION
ELL	ELBOW
EP	EDGE OF PAVEMENT
EQ	EQUAL
FG	FINISH GRADE
HDPE	HIGH DENSITY POLYETHYLENE
INV	INVERT
LF	LINEAR FEET
LT	LEFT

IAX	MAXIMUM
1IN	MINIMUM
l	NORTHING
V)	NEW
I.T.S.	NOT TO SCALE
CC	PORTLAND CEMENT CONCRETE
UE	PUBLIC UTILITY EASEMENT
C	RELATIVE COMPACTION
EQ'D	REQUIRED
Т	RIGHT
F	SQUARE FEET
TA	STATION
ΥP	TYPICAL
V	WATER
٧M	WATER METER



NO. DATE DESCRIPTION 5/10/2021

ISSUES AND REVISIONS ECCWC USE PERMIT, ASA, GRADING MODIFICATION

> PROJECT NUMBER 16011.00

SHEET TITLE NOTES, LEGEND & ABBREVIATIONS

> SCALE 1" = 2000'



SHEET NUMBER

G1







SCALE: 1 INCH = 40 FEET

SCALE: 1 INCH = 40 FEET

SCALE: 1 INCH = 40 FEET

PRELIMINARY - NOT FOR CONSTRUCTION

C6

C7

SCALE

<u>NOTES</u> 1. PIPELINES SHOWN ON CONSERVATION CENTER PROPERTY ARE SCHEMATIC. SEE LEA + BRAZE "ELLISON CONSERVATION CENTER FOR WILDLIFE CARE" PLANS FOR DETAILS. 2. SEE PLAN SHEET T2 FOR TREE PROTECTION REQUIREMENTS AND DETAILS.

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE SARATOGA, CA

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NO. DATE DESCRIPTION 5/10/2021

ISSUES AND REVISIONS ECCWC USE PERMIT, ASA, GRADING MODIFICATION

> PROJECT NUMBER 16011.00

SHEET TITLE PIPELINE PLAN

> SCALE 1" = 40'

SHEET NUMBER

C8

80

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE SARATOGA, CA

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

1. FLOAT-OPERATED FLOW CONTROL VALVE TO BE CALIBRATED TO A FLOW RATE OF APPROXIMATELY 30 GPM (GALLONS PER MINUTE).

2. INSTALL ³/₈" 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.

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.

• 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.

NO. DATE DESCRIPTION 5/10/2021

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

PS1.1

SCALE 3/4" = 1'-0"

			ELLISON CONSERVATION CENTER FOR WILDLIFE CARE SARATOGA, CA
			SED PROFESS/ONAL SED F. M. COPOLITIES SET IMINIZED M. COPOLITIES SET IMINIZED SET I
EDGE OF ROAD			
3" HDPE PIPELINE FROM AIR-GAP BOOSTER PUMP STATION			
WWWWW	w v	N	
EDGE OF ROAD	INTERMEDIATE TANK AND BO PUMP STATION SITE NEW IMPERVIOUS ARE (SOLIABE EEET)	OSTER A	heelet vgineers), STE 255 95050 148
	(SQUARE FEET)	30	VIL EN D ROAD RA, CA 46-48
	PUMP EQUIPMENT PAD	10	f & Ing CI A CLA (8) 24
	TOTAL	50	sant (11 HOW SANT (40
			ISSUES AND REVISIONS NO. DATE DESCRIPTION 5/10/2021 ECCWC USE PERMIT, ASA, GRADING MODIFICATION
			PROJECT NUMBER 16011.00
			sheet title INTERMEDIATE TANK AND BOOSTER PUMP STATION SITE PLAN
			SCALE 1" = 4'-0"
EXISTING TANK TOP EL = 1603.7			
			SHEET NUMBER
	4 0 4	8	PS2.0

SCALE: 1 INCH = 4 FEET

FEET

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE SARATOGA, CA

S S NO. DATE 5/10/2021

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ISSUES AND REVISIONS
DESCRIPTION
ECCWC USE PERMIT, ASA, GRADING MODIFICATION

PROJECT NUMBER 16011.00

SHEET TITLE INTERMEDIATE TANK AND BOOSTER PUMP STATION PLAN AND SECTIONS

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

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		NE BREAK TA TOTAL	BREAK TANK SITE W IMPERVIOUS AF (SQUARE FEET) NK FOUNDATION	REA 30 30	PROJECT NUMBER 1601.00SHEET TITLE BREAK TANK SITE PLANSITE $T = 4 \cdot 0^{\circ}$
		4	o SCALE: 1 INC	4 8 H = 4 FEET	PS3.0

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NO. DATE DESCRIPTION 5/10/2021

ISSUES AND REVISIONS ECCWC USE PERMIT, ASA, GRADING MODIFICATION

16011.00

PROJECT NUMBER

SHEET TITLE BREAK TANK PLAN AND SECTIONS

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

SHEET NUMBER

PS3.1

