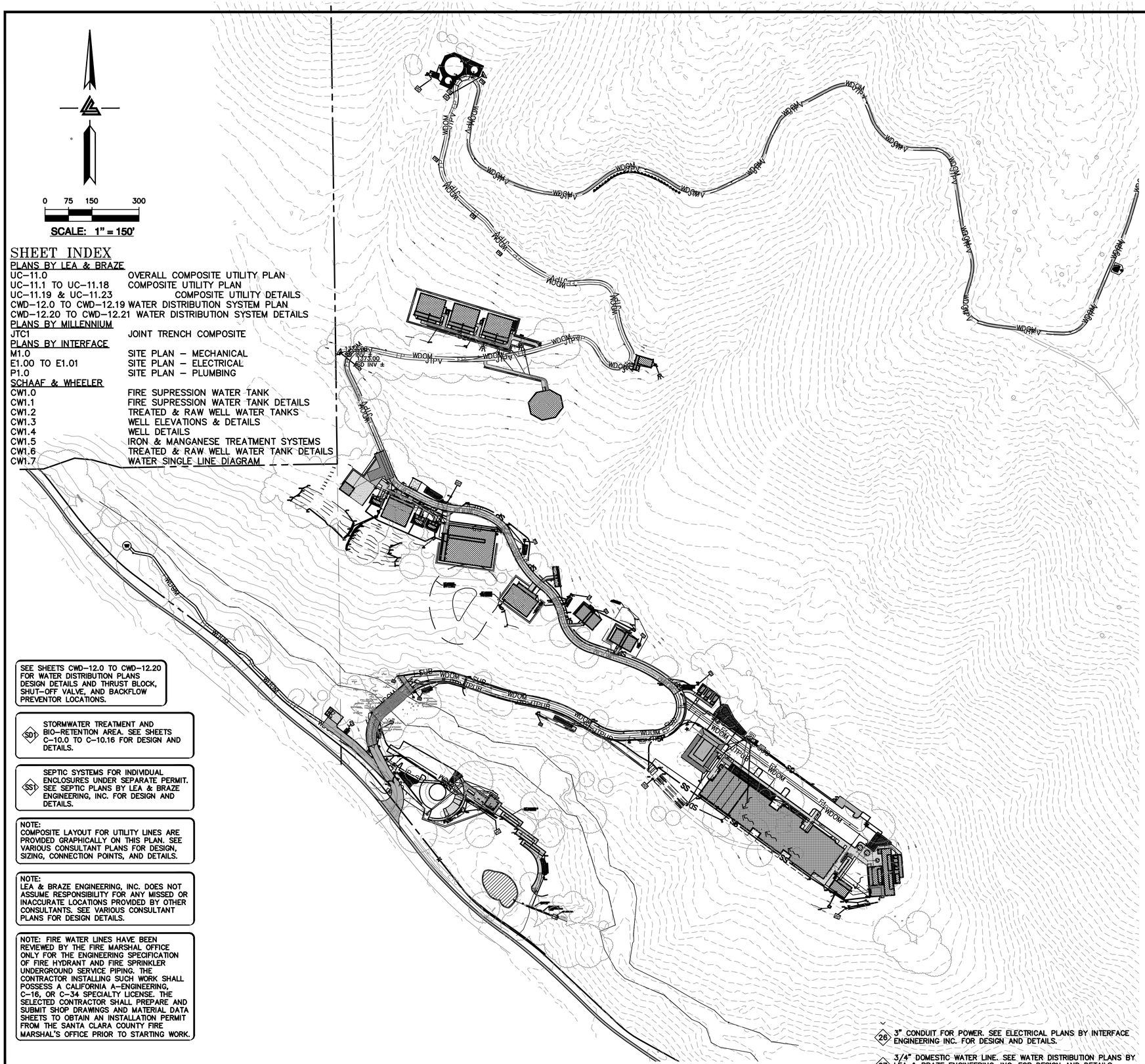

SHEET INDEX

PLANS BY LEA & BRAZE

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UC–11.1 TO UC–11.18	COMPOSITE UTILITY PLAN
UC–11.19 & UC–11.23	COMPOSITE UTILITY DETAILS
CWD–12.0 TO CWD–12.19	WATER DISTRIBUTION SYSTEM PLAN
CWD–12.20 TO CWD–12.21	WATER DISTRIBUTION SYSTEM DETAILS

PLANS BY MILLENNIUM

JTC1	JOINT TRENCH COMPOSITE

PLANS BY INTERFACE

M1.0	SITE PLAN – MECHANICAL
E1.00 TO E1.01	SITE PLAN – ELECTRICAL
P1.0	SITE PLAN – PLUMBING

SCHAAF & WHEELER

CW1.0	FIRE SUPRESSION WATER TANK
CW1.1	FIRE SUPRESSION WATER TANK DETAILS
CW1.2	TREATED & RAW WELL WATER TANKS
CW1.3	WELL ELEVATIONS & DETAILS
CW1.4	WELL DETAILS
CW1.5	IRON & MANGANESE TREATMENT SYSTEMS
CW1.6	TREATED & RAW WELL WATER TANK DETAILS
CW1.7	WATER SINGLE LINE DIAGRAM

SEE SHEETS CWD–12.0 TO CWD–12.20 FOR WATER DISTRIBUTION PLANS DESIGN DETAILS AND THRUST BLOCK, SHUT–OFF VALVE, AND BACKFLOW PREVENTOR LOCATIONS.

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NOTE:
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P6	3" CONDUIT FOR POWER
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SP	SANITARY SEWER PRESSURE LINES
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T	TELEPHONE LINES
TL	TIGHTLINE
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WDOM	WATER DOMESTIC LINE

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ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER CARLO M. CAMPOS No. C79555 CIVIL STATE OF CALIFORNIA ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

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3017 DOUGLAS BLVD, # 300
ROSEVILLE, CA 95661
(P) (916)966–1338
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WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
09–06–18	GRADING PERMIT PLAN CHECK 4
12–21–18	PERMIT RESUBMITTAL
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01–28–20	PERMIT MODIFICATION 2
05–29–20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07–22–20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE
1" = 150'

Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC–11.0

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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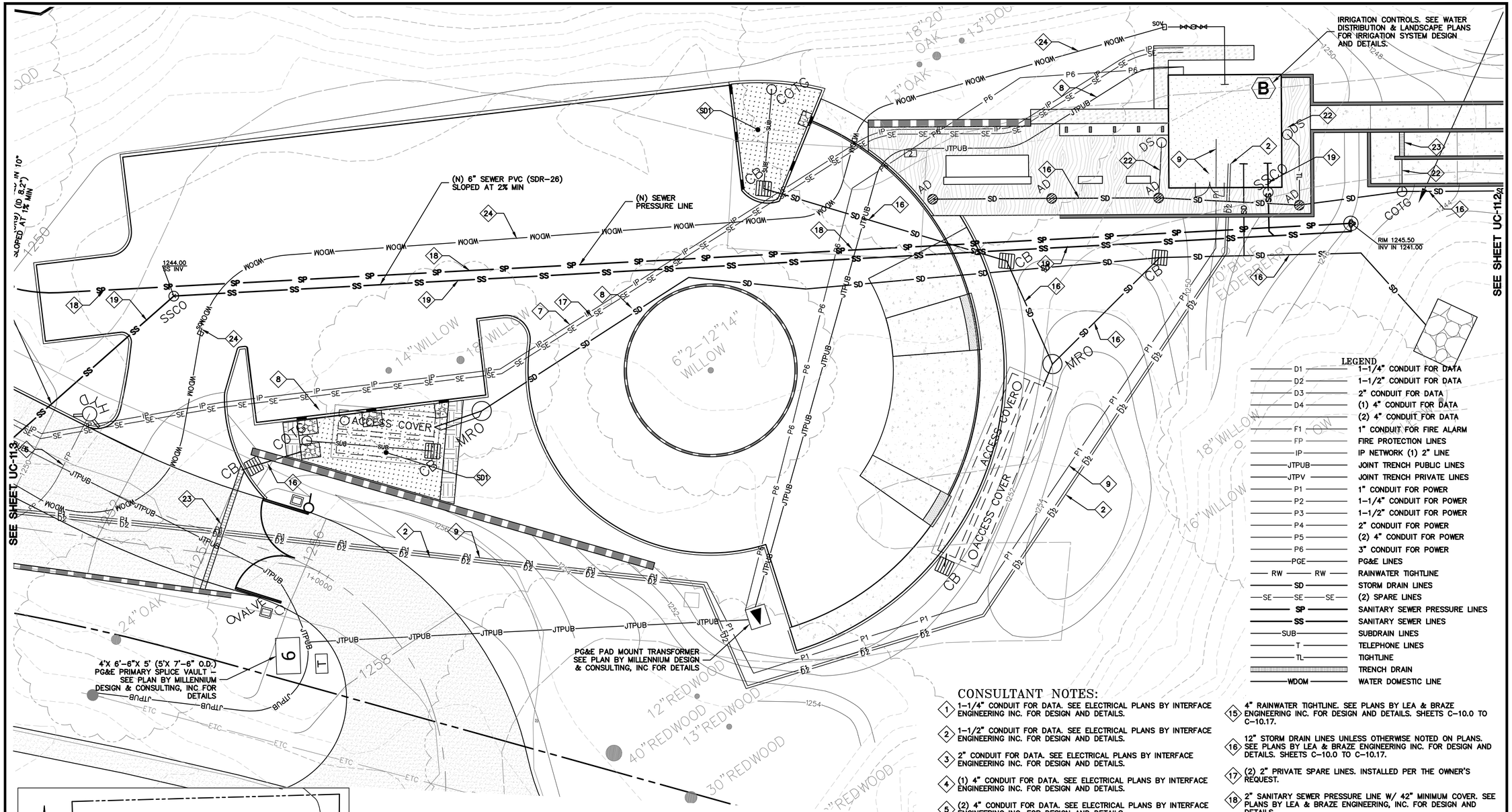

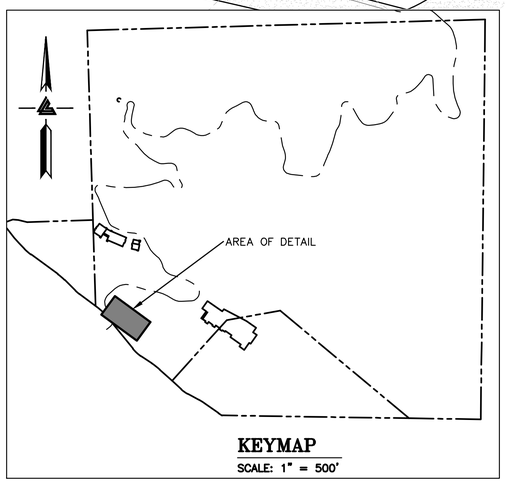

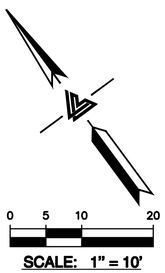

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REGISTERED PROFESSIONAL ENGINEER — PETER CARLISLE — No. C79535 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
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PROJECT NUMBER
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SHEET TITLE
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SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.1

ASA/USE PERMIT MODIFICATION #3
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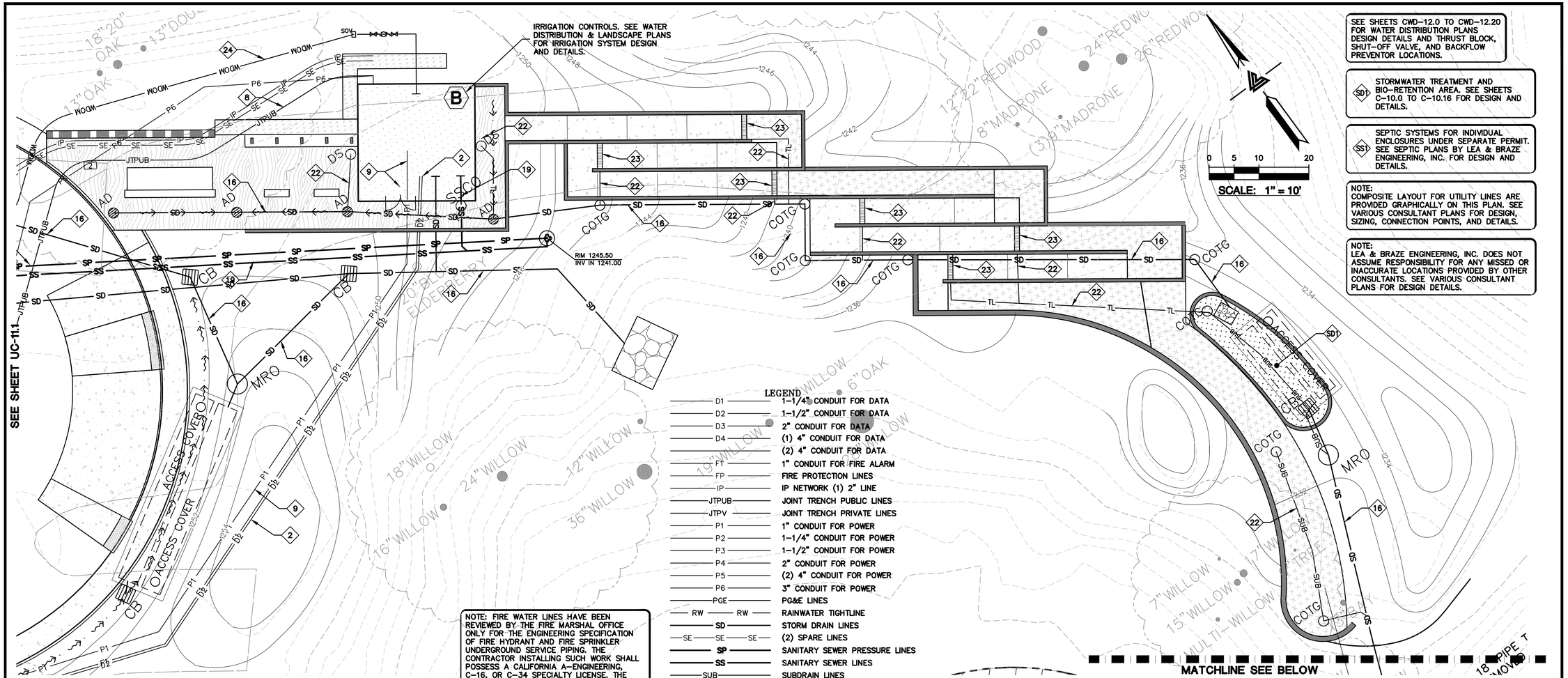

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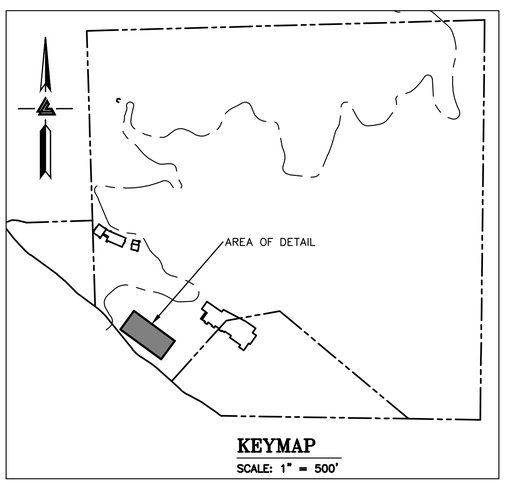

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14. 4" STEEL CONDUITS FOR PG&E PRIMARY TO CROSS THE BRIDGE WITHIN THE FIRST VOID ON THE DOWNSTREAM/SOUTHEAST SIDE. REFER TO THE PG&E SKETCH, PM# 35026317 FOR MORE PG&E INFORMATION. SEE PLANS BY MILLENNIUM DESIGN & CONSULTING, INC FOR DESIGN AND DETAILS.
15. 4" RAINWATER TIGHTLINE. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
16. 12" STORM DRAIN LINES UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
17. (2) 2" PRIVATE SPARE LINES. INSTALLED PER THE OWNER'S REQUEST.
18. 2" SANITARY SEWER PRESSURE LINE W/ 42" MINIMUM COVER. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS.
19. 6" PVC (SDR-26) SANITARY SEWER LATERAL SLOPED AT 1% MINIMUM, UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS.
20. SUBDRAIN LINE. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
21. 4" PLASTIC CONDUITS FOR AT&T TELEPHONE LINE TO CROSS THE BRIDGE WITHIN THE SECOND VOID ON THE DOWNSTREAM/SOUTHEAST SIDE. SEE PLANS BY MILLENNIUM DESIGN & CONSULTING, INC. FOR DESIGN AND DETAILS.
22. 4" STORM DRAIN TIGHTLINE. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
23. 4" TRENCH DRAIN. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN & DETAILS. SHEETS C-10.0 TO C-10.17.
24. 3" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.
25. NOT USED.
26. 3" CONDUIT FOR POWER. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
27. 3/4" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS.

SHEETS CWD-12.0 TO CWD-12.12.

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — JEFFREY P. CARLSON — No. C79333 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS - LAND SURVEYORS
BAY AREA REGION
2495 INDUSTRIAL PKWY WEST
HAYWARD, CALIFORNIA 94545
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(F) (510) 887-3019

SACRAMENTO REGION
3017 DOUGLAS BLVD., # 300
ROSEVILLE, CA 95661
(P) (916)966-1338
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WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
09-06-18	GRADING PERMIT PLAN CHECK 4
12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
05-10-19	BID SET ADDENDUM 1
05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 - PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.2

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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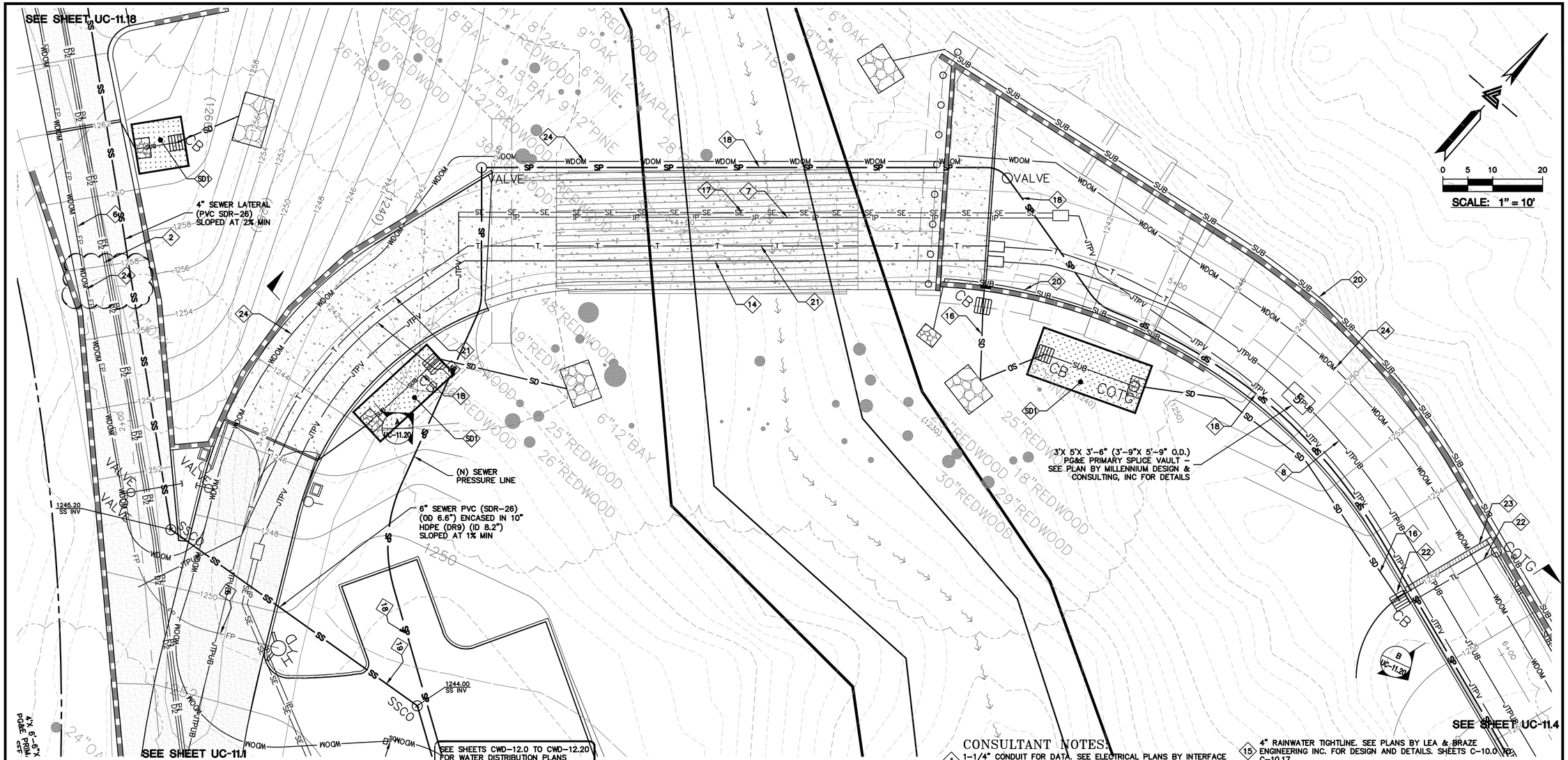
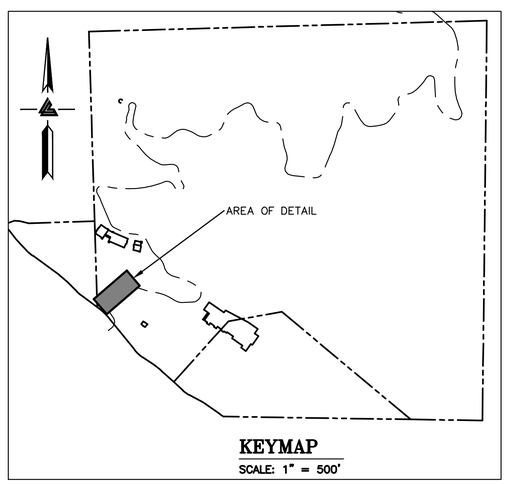
PLOT: 2/16/2021 12:35:05 PM





SEE SHEETS CWD-12.0 TO CWD-12.20 FOR WATER DISTRIBUTION PLANS DESIGN DETAILS AND THRUST BLOCK, SHUT-OFF VALVE, AND BACKFLOW PREVENTOR LOCATIONS.

SD1 STORMWATER TREATMENT AND BIO-RETENTION AREA. SEE SHEETS C-10.0 TO C-10.16 FOR DESIGN AND DETAILS.

SS1 SEPTIC SYSTEMS FOR INDIVIDUAL ENCLOSURES UNDER SEPARATE PERMIT. SEE SEPTIC PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS.

NOTE:
COMPOSITE LAYOUT FOR UTILITY LINES ARE PROVIDED GRAPHICALLY ON THIS PLAN. SEE VARIOUS CONSULTANT PLANS FOR DESIGN, SIZING, CONNECTION POINTS, AND DETAILS.

NOTE:
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NOTE: FIRE WATER LINES HAVE BEEN REVIEWED BY THE FIRE MARSHAL OFFICE ONLY FOR THE ENGINEERING SPECIFICATION OF FIRE HYDRANT AND FIRE SPRINKLER UNDERGROUND SERVICE PIPING. THE CONTRACTOR INSTALLING SUCH WORK SHALL POSSESS A CALIFORNIA A-ENGINEERING, C-16, OR C-34 SPECIALTY LICENSE. THE SELECTED CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS AND MATERIAL DATA SHEETS TO OBTAIN AN INSTALLATION PERMIT FROM THE SANTA CLARA COUNTY FIRE MARSHAL'S OFFICE PRIOR TO STARTING WORK.

LEGEND

D1	1-1/4" CONDUIT FOR DATA
D2	1-1/2" CONDUIT FOR DATA
D3	2" CONDUIT FOR DATA
D4	(1) 4" CONDUIT FOR DATA
	(2) 4" CONDUIT FOR DATA
F1	1" CONDUIT FOR FIRE ALARM
FP	FIRE PROTECTION LINES
IP	IP NETWORK (1) 2" LINE
JTPUB	JOINT TRENCH PUBLIC LINES
JTPV	JOINT TRENCH PRIVATE LINES
P1	1" CONDUIT FOR POWER
P2	1-1/4" CONDUIT FOR POWER
P3	1-1/2" CONDUIT FOR POWER
P4	2" CONDUIT FOR POWER
P5	(2) 4" CONDUIT FOR POWER
P6	3" CONDUIT FOR POWER
PGE	PG&E LINES
RW	RAINWATER TIGHTLINE
SD	STORM DRAIN LINES
SE	(2) SPARE LINES
SP	SANITARY SEWER PRESSURE LINES
SS	SANITARY SEWER LINES
SUB	SUBDRAIN LINES
T	TELEPHONE LINES
TL	TIGHTLINE
	TRENCH DRAIN
WDOM	WATER DOMESTIC LINE

CONSULTANT NOTES:

1. 1-1/4" CONDUIT FOR DATA. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
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7. 2" IP NETWORK LINE. INSTALLED PER THE OWNER'S REQUEST.
8. INSTALL JOINT TRENCH FOR SERVICES INCLUDING CATV & ELECTRIC FROM NEAREST POINT OF CONNECTION. SEE PLANS BY MILLENNIUM DESIGN & CONSULTING, INC. FOR DESIGN AND DETAILS.
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25. NOT USED.
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PLOT: 2/16/2021 12:36:19 PM

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER – JENNIFER CARLSON – No. C79555 – CIVIL – STATE OF CALIFORNIA – ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS - LAND SURVEYORS
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ROSEVILLE, CA 95661
(P) (916)966-1338
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WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
09-06-18	GRADING PERMIT PLAN CHECK 4
12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
05-10-19	BID SET ADDENDUM 1
05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 – PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
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07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

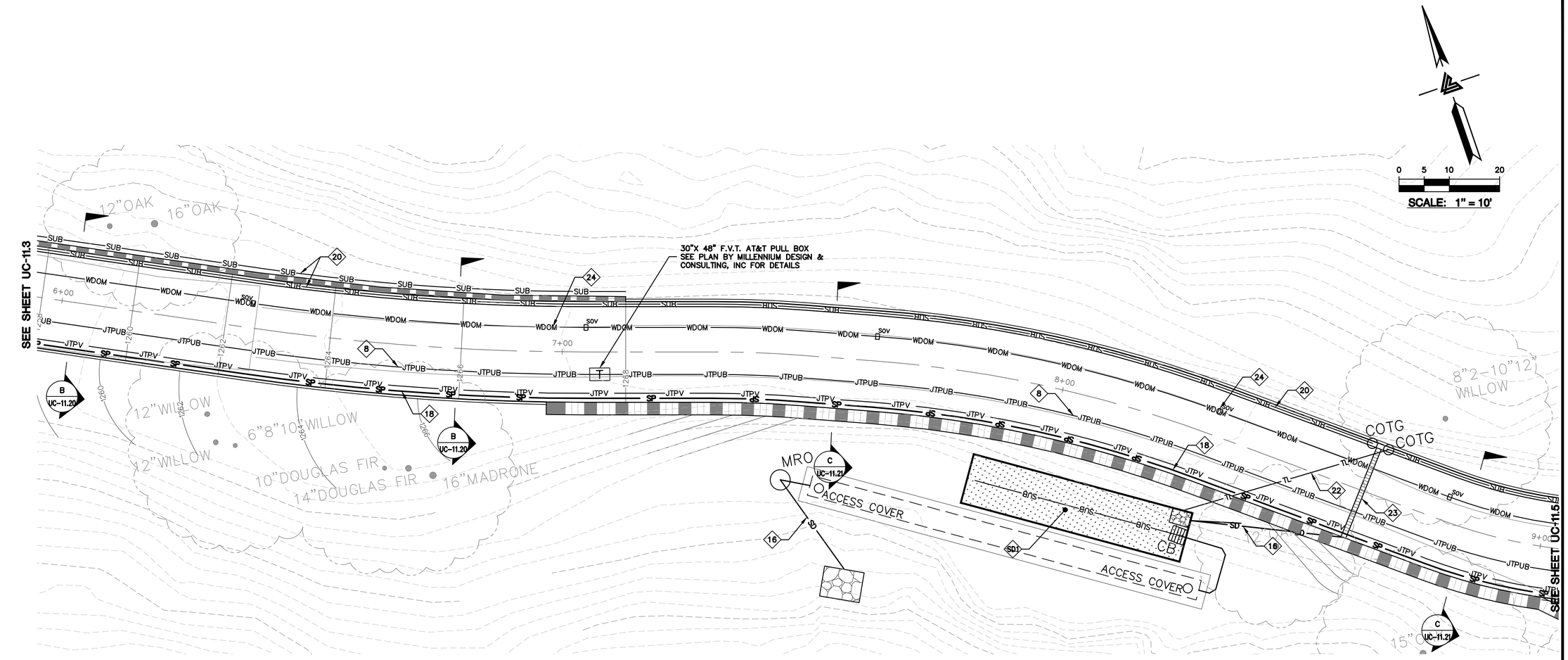
PROJECT NUMBER
16011.00

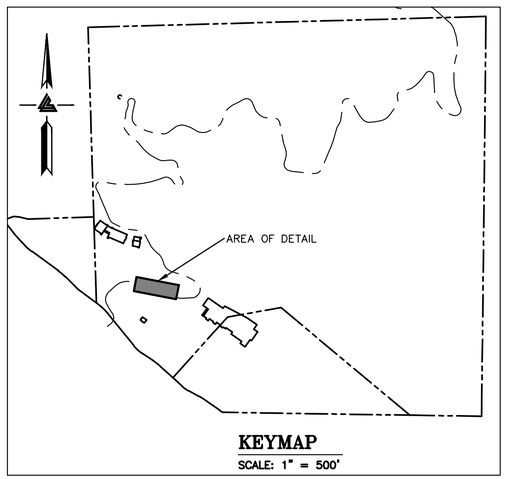
SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.3

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943





KEYMAP
SCALE: 1" = 500'

SEE SHEETS CWD-12.0 TO CWD-12.20 FOR WATER DISTRIBUTION PLANS DESIGN DETAILS AND THRUST BLOCK, SHUT-OFF VALVE, AND BACKFLOW PREVENTOR LOCATIONS.

SD1 STORMWATER TREATMENT AND BIO-RETENTION AREA. SEE SHEETS C-10.0 TO C-10.16 FOR DESIGN AND DETAILS.

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LEGEND

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SUB	SUBDRAIN LINES
T	TELEPHONE LINES
TL	TIGHTLINE
	TRENCH DRAIN
WDOM	WATER DOMESTIC LINE
	WATER RAW LINE

CONSULTANT NOTES:

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26. 3" CONDUIT FOR POWER. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
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PLOT: 2/16/2021 12:37:29 PM

ELLISON CONSERVATION
CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER
PETER CARLLINO
No. C79535
CIVIL
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

LEA & BRAZE ENGINEERING, INC.
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ISSUES AND REVISIONS

DATE	DESCRIPTION
09-06-18	GRADING PERMIT PLAN CHECK 4
12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
05-10-19	BID SET ADDENDUM 1
05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 - PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY
RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

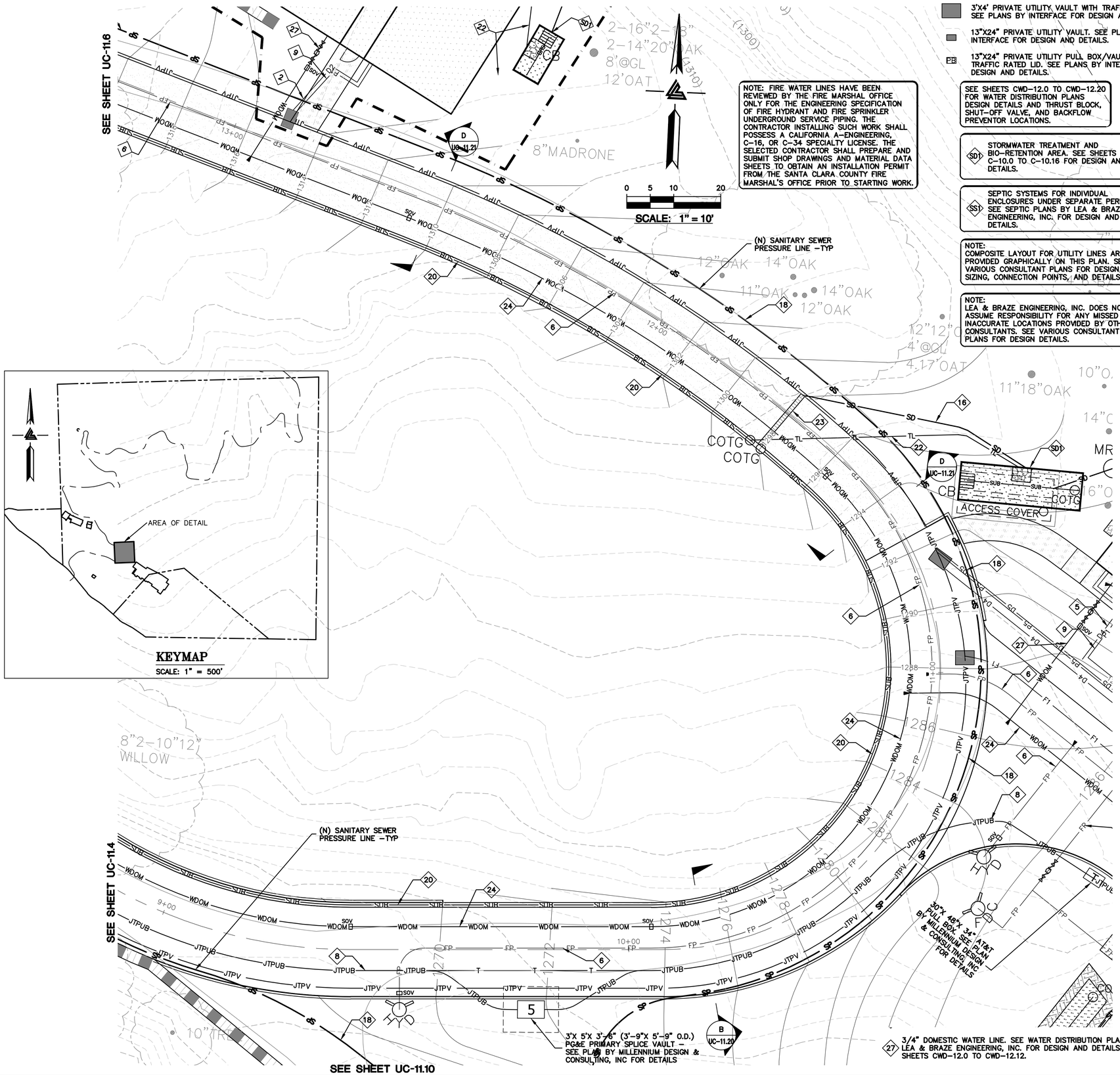
PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.4

ASA/USE PERMIT
MODIFICATION #3
PLN-17-6943



LEGEND

D1	1-1/4" CONDUIT FOR DATA
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SD	STORM DRAIN LINES
SE	(2) SPARE LINES
SP	SANITARY SEWER PRESSURE LINES
SS	SANITARY SEWER LINES
SUB	SUBDRAIN LINES
T	TELEPHONE LINES
TL	TIGHTLINE
	TRENCH DRAIN
WDOM	WATER DOMESTIC LINE

CONSULTANT NOTES:

1. 1-1/4" CONDUIT FOR DATA. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
2. 1-1/2" CONDUIT FOR DATA. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
3. 2" CONDUIT FOR DATA. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
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6. (N) FIRE PROTECTION LINE. MINIMUM SIZE SHALL BE 8" HDPE (DR-11 OR SIMILAR). REFER TO WATER DISTRIBUTION PLANS FOR SIZING REQUIREMENTS AND POINT OF CONNECTION TO THE STRUCTURE. SHEETS CWD-12.0 TO CWD-12.20.
7. 2" IP NETWORK LINE. INSTALLED PER THE OWNER'S REQUEST.
8. INSTALL JOINT TRENCH FOR SERVICES INCLUDING CATV & ELECTRIC FROM NEAREST POINT OF CONNECTION. SEE PLANS BY MILLENNIUM DESIGN & CONSULTING, INC. FOR DESIGN AND DETAILS.
9. 1" CONDUIT FOR POWER. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
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15. 4" RAINWATER TIGHTLINE. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
16. 12" STORM DRAIN LINES UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
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18. 2" SANITARY SEWER PRESSURE LINE W/ 42" MINIMUM COVER. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS.
19. 6" PVC (SDR-26) SANITARY SEWER LATERAL SLOPED AT 1% MINIMUM, UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS.
20. SUBDRAIN LINE. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
21. 4" PLASTIC CONDUITS FOR AT&T TELEPHONE LINE TO CROSS THE BRIDGE WITHIN THE SECOND VOID ON THE DOWNSTREAM/SOUTHEAST SIDE. SEE PLANS BY MILLENNIUM DESIGN & CONSULTING, INC. FOR DESIGN AND DETAILS.
22. 4" STORM DRAIN TIGHTLINE. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
23. 4" TRENCH DRAIN. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN & DETAILS. SHEETS C-10.0 TO C-10.17.
24. 3" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.
25. NOT USED.
26. 3" CONDUIT FOR POWER. SEE ELECTRICAL PLANS BY INTERFACE
27. 3/4" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — NICHOLAS C. CARLINO — No. C79535 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

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CIVIL ENGINEERS - LAND SURVEYORS
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3017 DOUGLAS BLVD. # 300
ROSEVILLE, CA 95661
(P) (916)966-1338
(F) (916)797-7363
WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
09-06-18	GRADING PERMIT PLAN CHECK 4
12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
05-10-19	BID SET ADDENDUM 1
05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 - PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.5

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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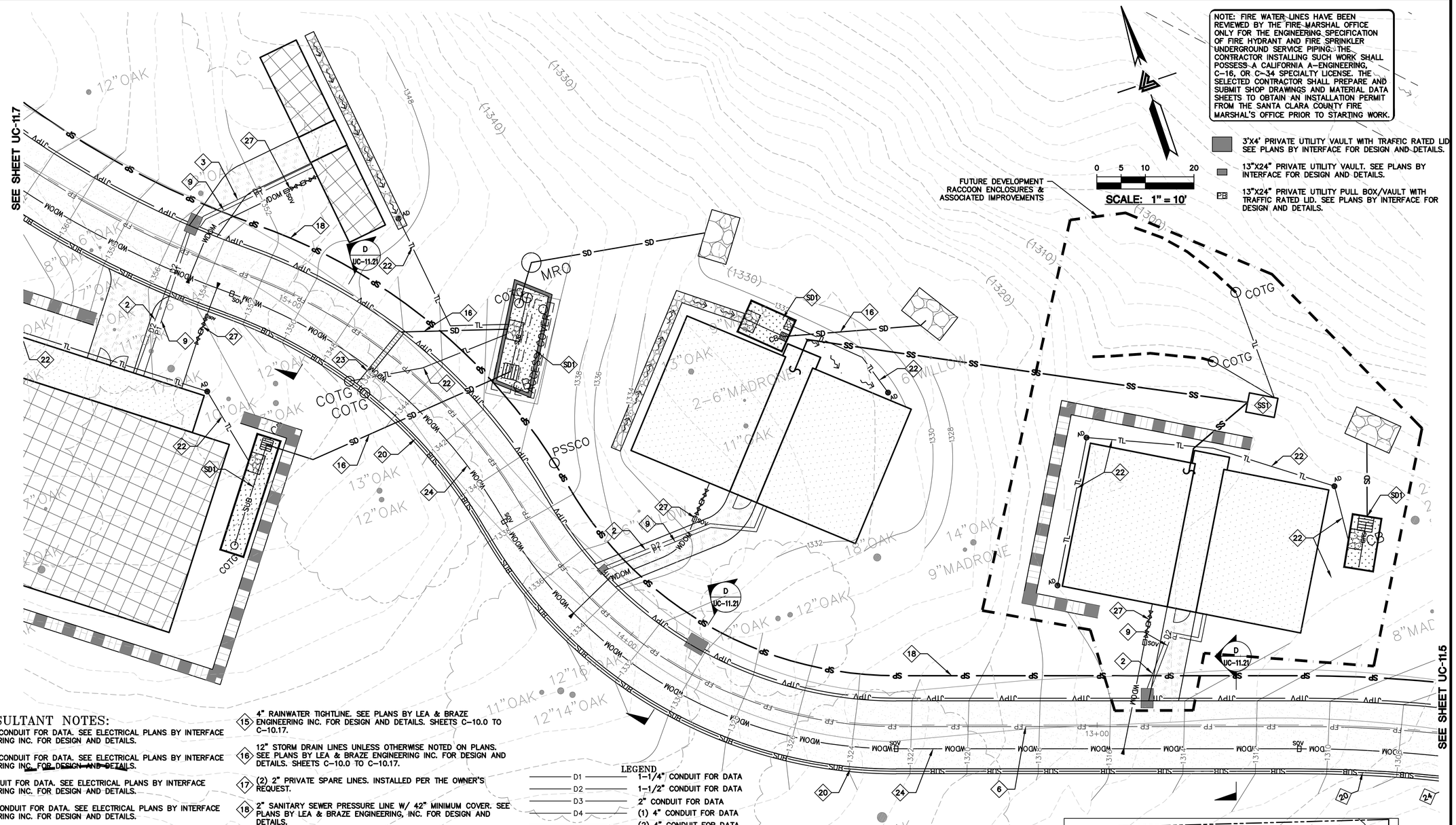

CONSULTANT NOTES:

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23. 4" TRENCH DRAIN. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN & DETAILS. SHEETS C-10.0 TO C-10.17.
24. 3" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.
25. NOT USED.
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27. 3/4" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.

LEGEND

D1	1-1/4" CONDUIT FOR DATA
D2	1-1/2" CONDUIT FOR DATA
D3	2" CONDUIT FOR DATA
D4	(1) 4" CONDUIT FOR DATA
	(2) 4" CONDUIT FOR DATA
F1	1" CONDUIT FOR FIRE ALARM
FP	FIRE PROTECTION LINES
IP	IP NETWORK (1) 2" LINE
JTPUB	JOINT TRENCH PUBLIC LINES
JTPV	JOINT TRENCH PRIVATE LINES
P1	1" CONDUIT FOR POWER
P2	1-1/4" CONDUIT FOR POWER
P3	1-1/2" CONDUIT FOR POWER
P4	2" CONDUIT FOR POWER
P5	(2) 4" CONDUIT FOR POWER
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PGE	PG&E LINES
RW	RAINWATER TIGHTLINE
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SUB	SUBDRAIN LINES
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TL	TIGHTLINE
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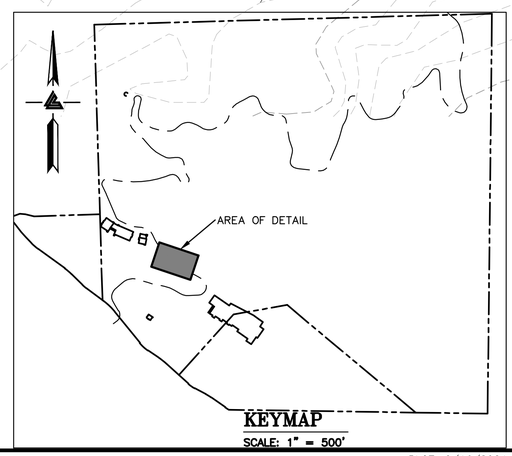
SEE SHEETS CWD-12.0 TO CWD-12.20 FOR WATER DISTRIBUTION PLANS DESIGN DETAILS AND THRUST BLOCK, SHUT-OFF VALVE, AND BACKFLOW PREVENTOR LOCATIONS.

SD1 STORMWATER TREATMENT AND BIO-RETENTION AREA. SEE SHEETS C-10.0 TO C-10.16 FOR DESIGN AND DETAILS.

SS1 SEPTIC SYSTEMS FOR INDIVIDUAL ENCLOSURES UNDER SEPARATE PERMIT. SEE SEPTIC PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS.

NOTE:
COMPOSITE LAYOUT FOR UTILITY LINES ARE PROVIDED GRAPHICALLY ON THIS PLAN. SEE VARIOUS CONSULTANT PLANS FOR DESIGN, SIZING, CONNECTION POINTS, AND DETAILS.

NOTE:
LEA & BRAZE ENGINEERING, INC. DOES NOT ASSUME RESPONSIBILITY FOR ANY MISSED OR INACCURATE LOCATIONS PROVIDED BY OTHER CONSULTANTS. SEE VARIOUS CONSULTANT PLANS FOR DESIGN DETAILS.



KEYMAP
SCALE: 1" = 500'

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — JENNIFER CARLSON — No. C79535 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
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ISSUES AND REVISIONS

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07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.6

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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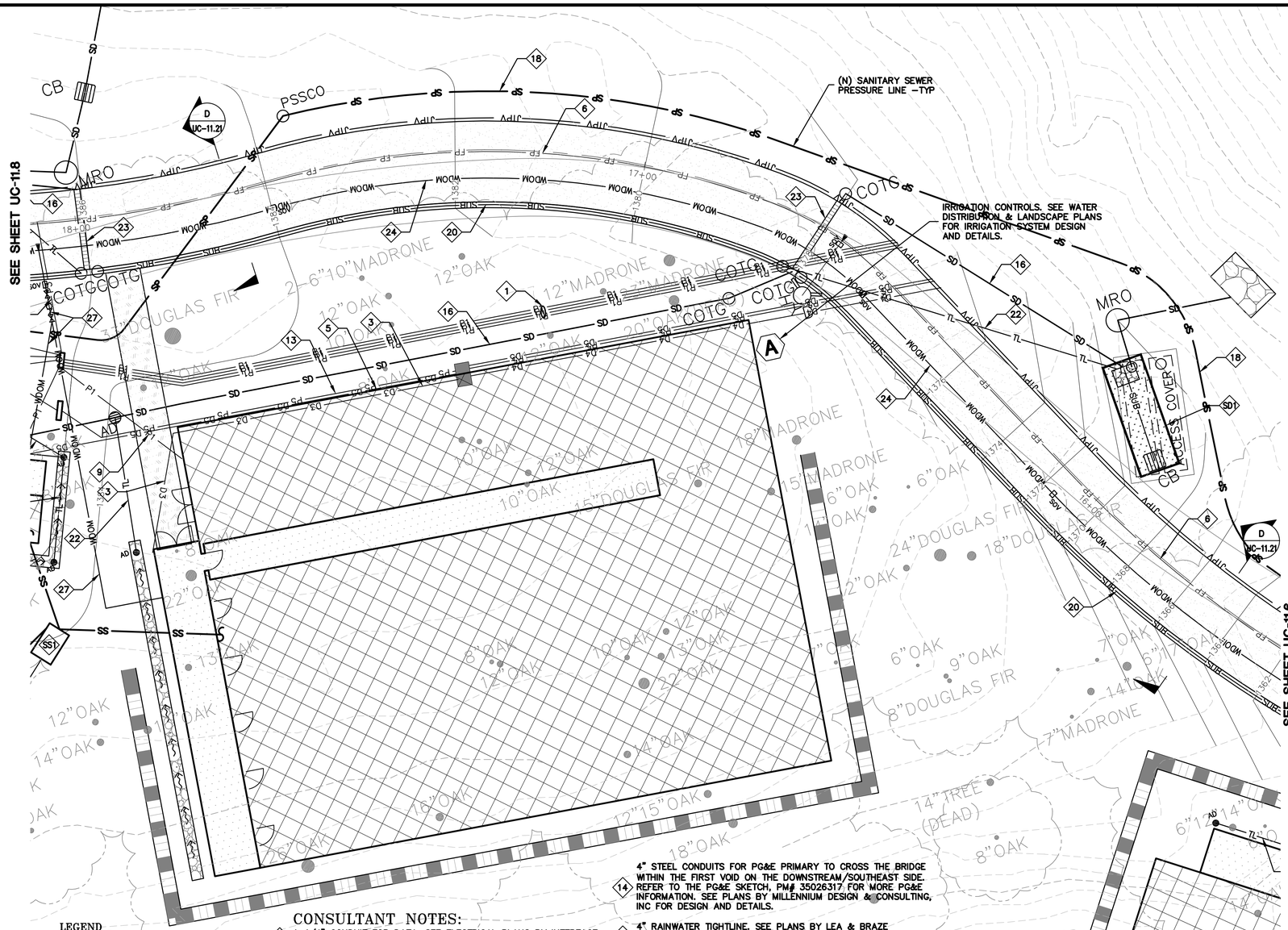
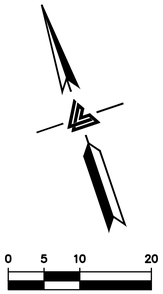
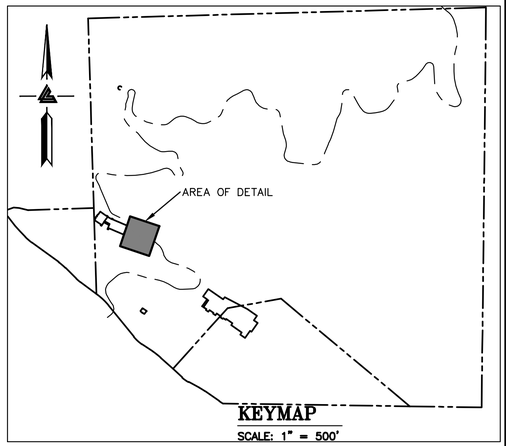




SCALE: 1" = 10'



KEYMAP

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LEGEND

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3'X4' PRIVATE UTILITY VAULT WITH TRAFFIC RATED LID. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

13"X24" PRIVATE UTILITY VAULT. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

PB 13"X24" PRIVATE UTILITY PULL BOX/VAULT WITH TRAFFIC RATED LID. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

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NOTE: FIRE WATER LINES HAVE BEEN REVIEWED BY THE FIRE MARSHAL OFFICE ONLY FOR THE ENGINEERING SPECIFICATION OF FIRE HYDRANT AND FIRE SPRINKLER UNDERGROUND SERVICE PIPING. THE CONTRACTOR INSTALLING SUCH WORK SHALL POSSESS A CALIFORNIA A-ENGINEERING, C-16, OR C-34 SPECIALTY LICENSE. THE SELECTED CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS AND MATERIAL DATA SHEETS TO OBTAIN AN INSTALLATION PERMIT FROM THE SANTA CLARA COUNTY FIRE MARSHAL'S OFFICE PRIOR TO STARTING WORK.

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — JENNIFER CARLSON — No. C79535 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

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ISSUES AND REVISIONS

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12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
05-10-19	BID SET ADDENDUM 1
05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 - PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE
1" = 10'
Designed By PC / CA
Checked By PC / JL
LB Job No. 2130712

SHEET NUMBER
UC-11.7

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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PLOT: 2/16/2021 12:41:40 PM

3'X4' PRIVATE UTILITY VAULT WITH TRAFFIC RATED LID. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

13"X24" PRIVATE UTILITY VAULT. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

PB 13"X24" PRIVATE UTILITY PULL BOX/VAULT WITH TRAFFIC RATED LID. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

SEE SHEETS CWD-12.0 TO CWD-12.20 FOR WATER DISTRIBUTION PLANS DESIGN DETAILS AND THRUST BLOCK, SHUT-OFF VALVE, AND BACKFLOW PREVENTOR LOCATIONS.

SDT STORMWATER TREATMENT AND BIO-RETENTION AREA. SEE SHEETS C-10.0 TO C-10.16 FOR DESIGN AND DETAILS.

SST SEPTIC SYSTEMS FOR INDIVIDUAL ENCLOSURES UNDER SEPARATE PERMIT. SEE SEPTIC PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS.

NOTE:
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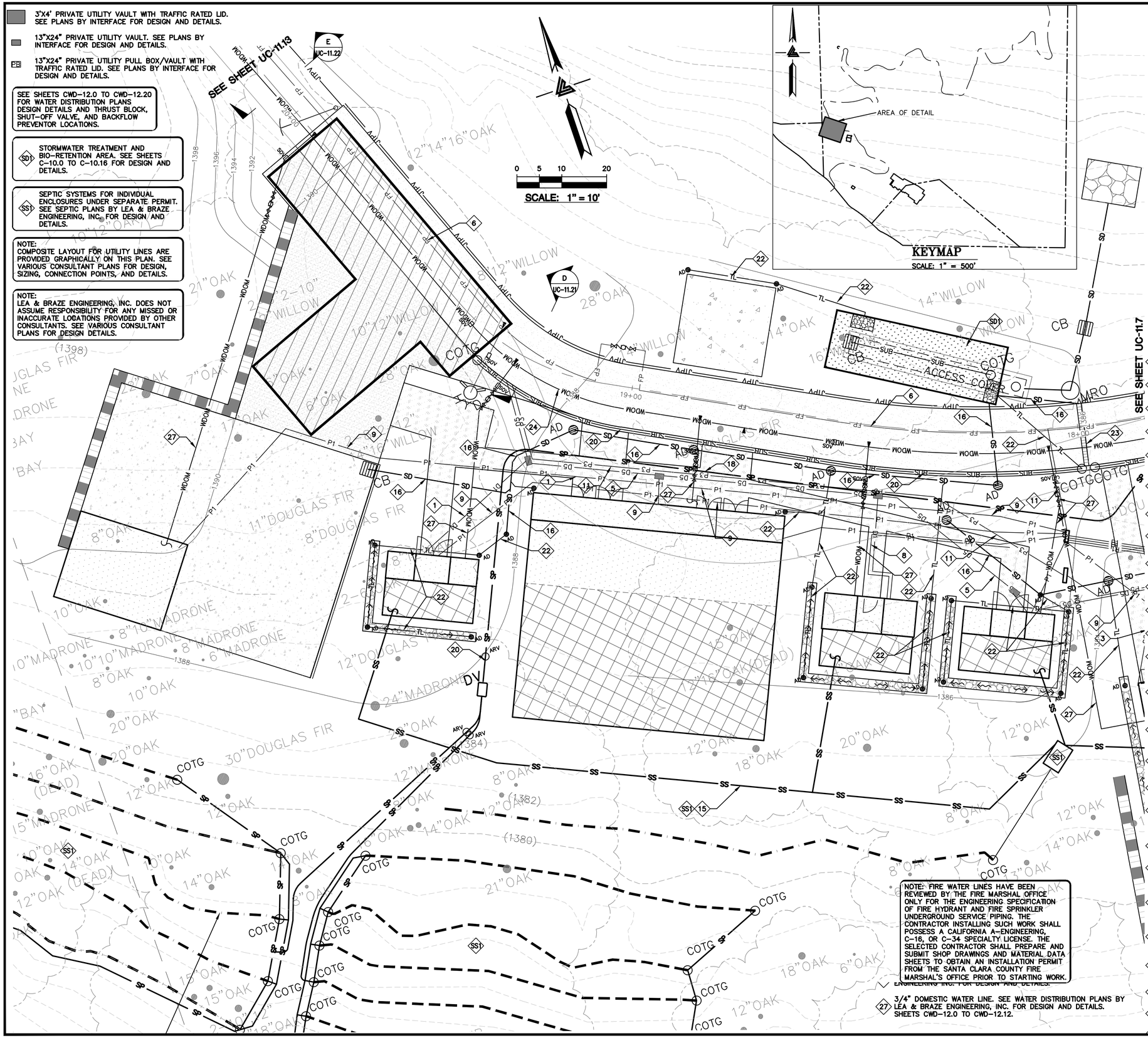

LEGEND

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WDOM	WATER DOMESTIC LINE

CONSULTANT NOTES:

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ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — PETER CARLSON — No. C79338 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

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(F) (510) 887-3019
SACRAMENTO REGION
3017 DOUGLAS BLVD. # 300
ROSEVILLE, CA 95661
(P) (916)966-1338
(F) (916)797-7363
WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
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12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
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05-22-19	UTILITY PLAN CHECK 1
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09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

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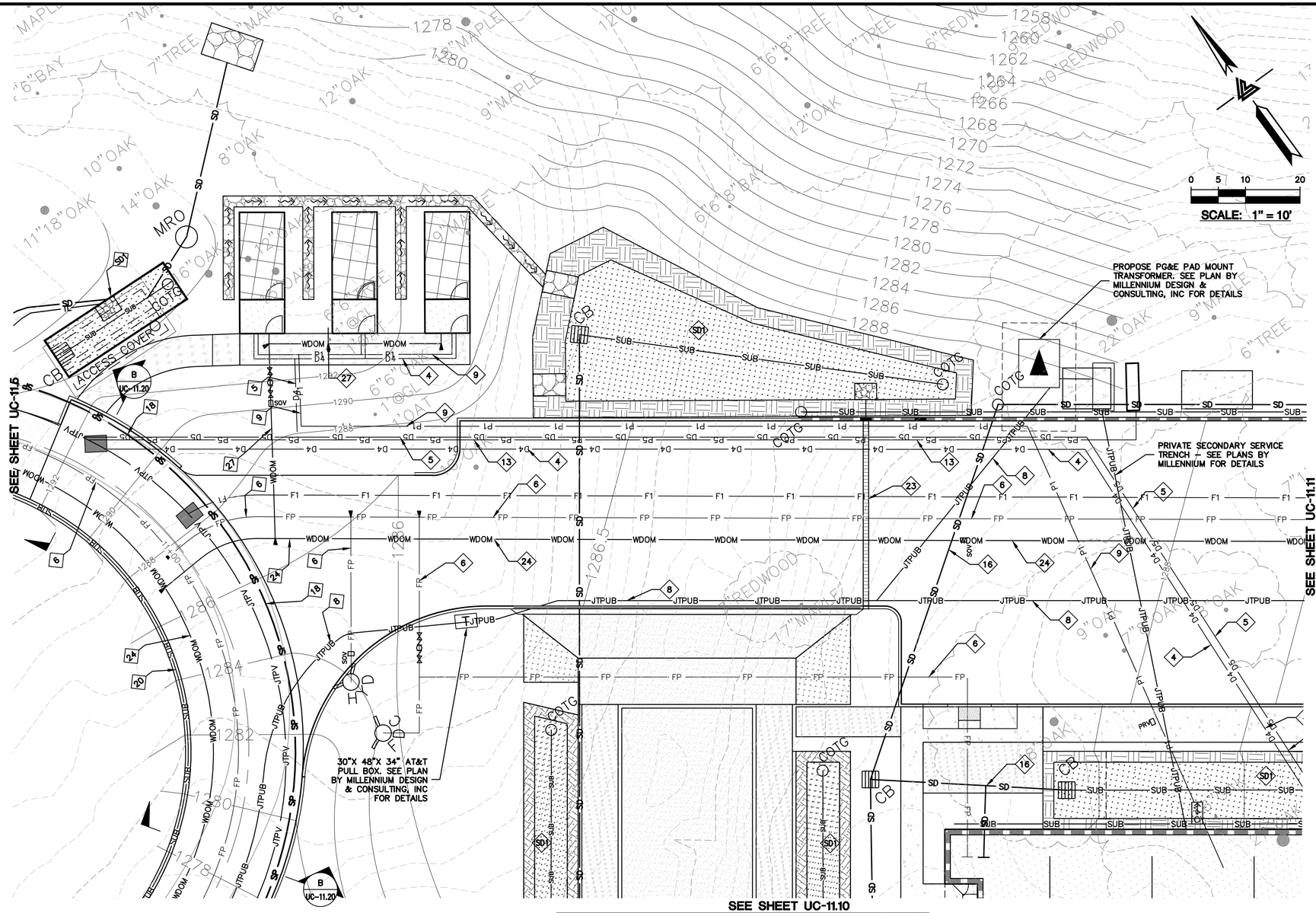
PLOT: 2/16/2021 12:43:07 PM



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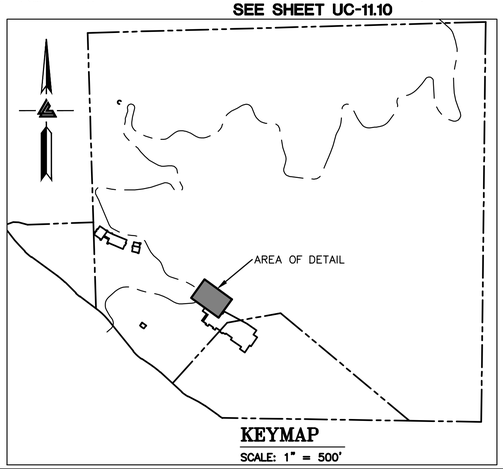

KEYMAP
SCALE: 1" = 500'

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SARATOGA, CA

KSH ARCHITECTS
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HAYWARD, CA 94545
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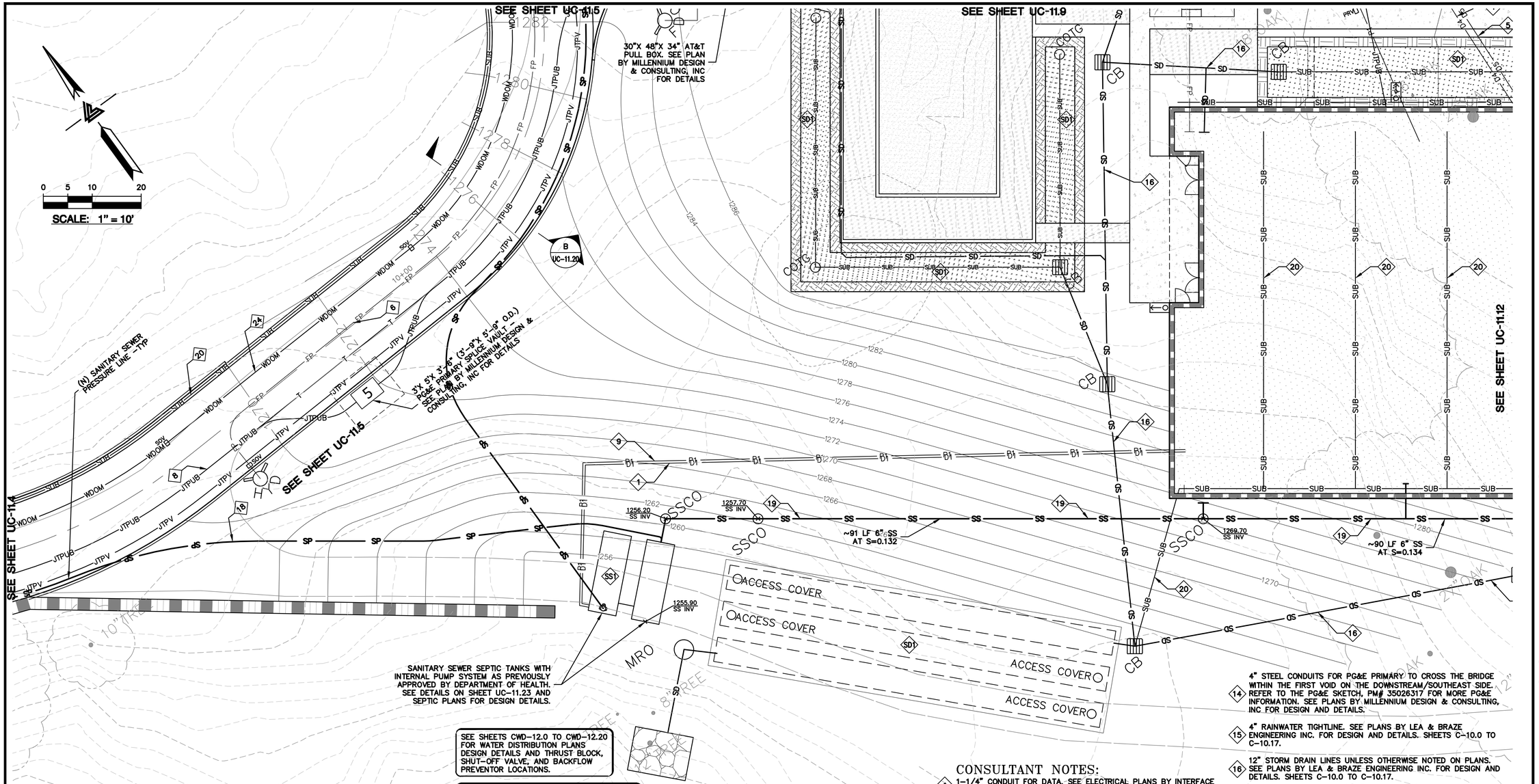

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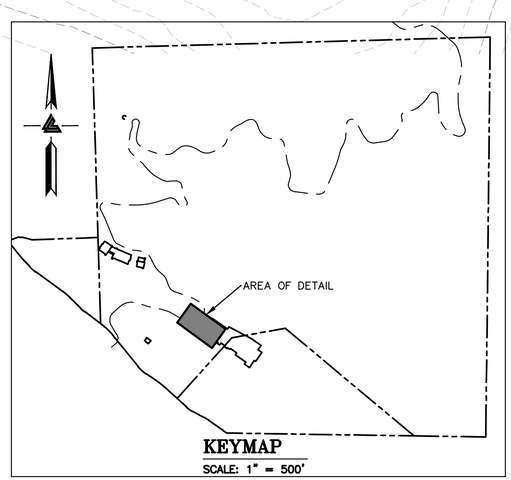

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15. 4" RAINWATER TIGHTLINE. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
16. 12" STORM DRAIN LINES UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
17. (2) 2" PRIVATE SPARE LINES. INSTALLED PER THE OWNER'S REQUEST.
18. 2" SANITARY SEWER PRESSURE LINE W/ 42" MINIMUM COVER. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS.
19. 6" PVC (SDR-26) SANITARY SEWER LATERAL SLOPED AT 1% MINIMUM, UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS.
20. SUBDRAIN LINE. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
21. 4" PLASTIC CONDUITS FOR AT&T TELEPHONE LINE TO CROSS THE BRIDGE WITHIN THE SECOND VOID ON THE DOWNSTREAM/SOUTHEAST SIDE. SEE PLANS BY MILLENNIUM DESIGN & CONSULTING, INC. FOR DESIGN AND DETAILS.
22. 4" STORM DRAIN TIGHTLINE. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
23. 4" TRENCH DRAIN. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN & DETAILS. SHEETS C-10.0 TO C-10.17.
24. 3" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.
25. NOT USED.
26. 3" CONDUIT FOR POWER. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
27. 3/4" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.

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SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER
PETER CARLTON
No. C79535
CIVIL
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

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(P) (916)966-1338
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ISSUES AND REVISIONS

DATE	DESCRIPTION
09-06-18	GRADING PERMIT PLAN CHECK 4
12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
05-10-19	BID SET ADDENDUM 1
05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 - PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.10

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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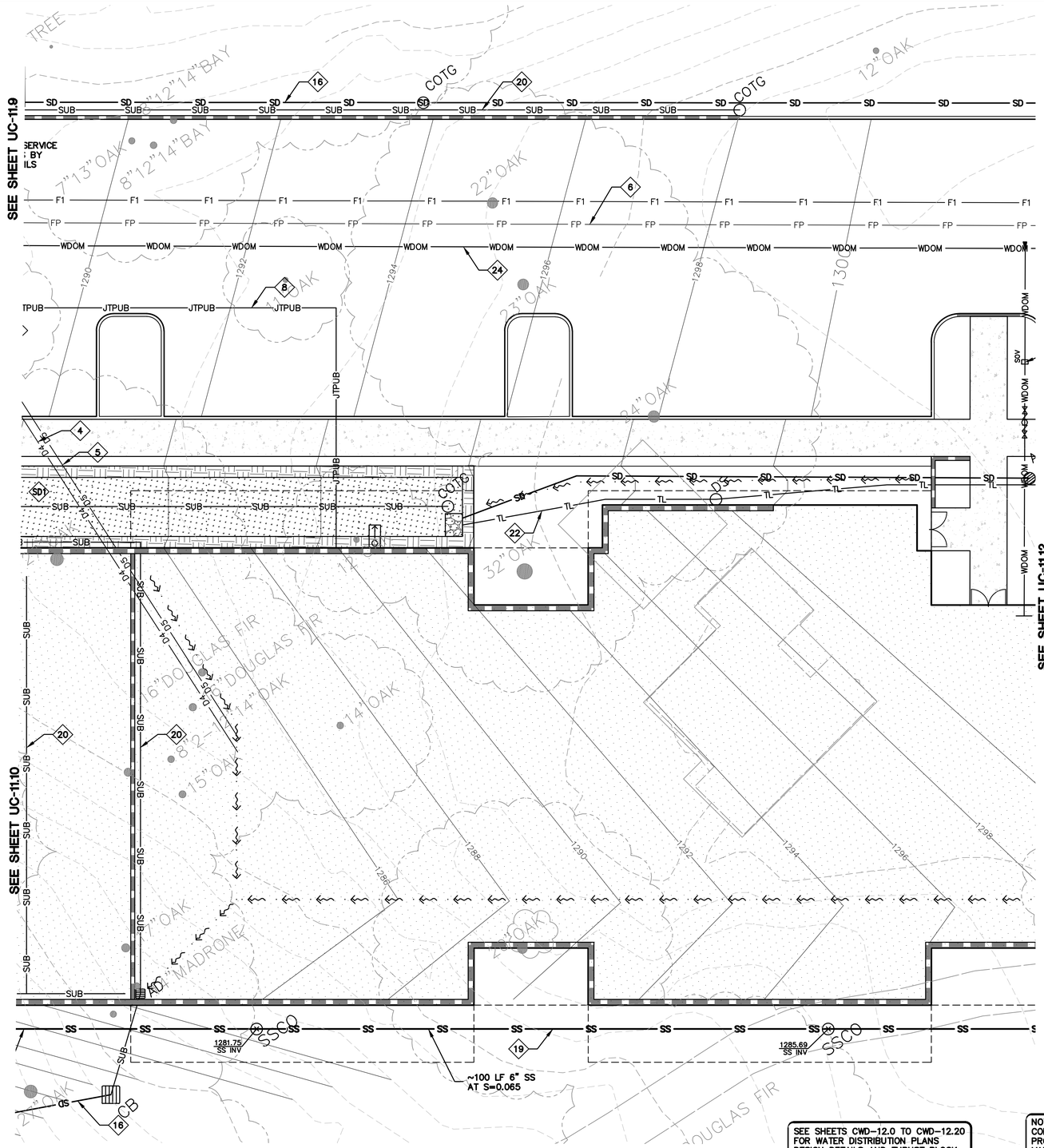

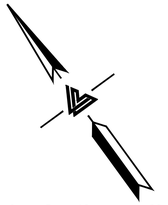

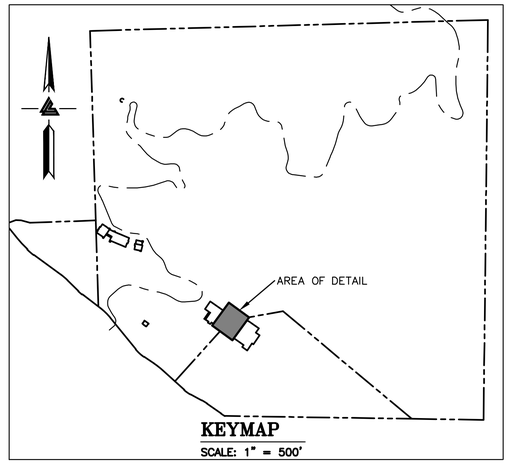

LEGEND

D1	1-1/4" CONDUIT FOR DATA
D2	1-1/2" CONDUIT FOR DATA
D3	2" CONDUIT FOR DATA
D4	(1) 4" CONDUIT FOR DATA
	(2) 4" CONDUIT FOR DATA
F1	1" CONDUIT FOR FIRE ALARM
FP	FIRE PROTECTION LINES
IP	IP NETWORK (1) 2" LINE
JTPUB	JOINT TRENCH PUBLIC LINES
JTPV	JOINT TRENCH PRIVATE LINES
P1	1" CONDUIT FOR POWER
P2	1-1/4" CONDUIT FOR POWER
P3	1-1/2" CONDUIT FOR POWER
P4	2" CONDUIT FOR POWER
P5	(2) 4" CONDUIT FOR POWER
P6	3" CONDUIT FOR POWER
PGE	PG&E LINES
RW	RAINWATER TIGHTLINE
SD	STORM DRAIN LINES
SE	(2) SPARE LINES
SP	SANITARY SEWER PRESSURE LINES
SS	SANITARY SEWER LINES
SUB	SUBDRAIN LINES
T	TELEPHONE LINES
TL	TIGHTLINE
	TRENCH DRAIN
WDOM	WATER DOMESTIC LINE

CONSULTANT NOTES:

1. 1-1/4" CONDUIT FOR DATA. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
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NOTE: FIRE WATER LINES HAVE BEEN REVIEWED BY THE FIRE MARSHAL OFFICE ONLY FOR THE ENGINEERING SPECIFICATION OF FIRE HYDRANT AND FIRE SPRINKLER UNDERGROUND SERVICE PIPING. THE CONTRACTOR INSTALLING SUCH WORK SHALL POSSESS A CALIFORNIA A-ENGINEERING, C-16, OR C-34 SPECIALTY LICENSE. THE SELECTED CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS AND MATERIAL DATA SHEETS TO OBTAIN AN INSTALLATION PERMIT FROM THE SANTA CLARA COUNTY FIRE MARSHAL'S OFFICE PRIOR TO STARTING WORK.

SEE SHEETS CWD-12.0 TO CWD-12.20 FOR WATER DISTRIBUTION PLANS DESIGN DETAILS AND THRUST BLOCK, SHUT-OFF VALVE, AND BACKFLOW PREVENTOR LOCATIONS.

SD1 STORMWATER TREATMENT AND BIO-RETENTION AREA. SEE SHEETS C-10.0 TO C-10.16 FOR DESIGN AND DETAILS.

SS1 SEPTIC SYSTEMS FOR INDIVIDUAL ENCLOSURES UNDER SEPARATE PERMIT. SEE SEPTIC PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS.

NOTE: COMPOSITE LAYOUT FOR UTILITY LINES ARE PROVIDED GRAPHICALLY ON THIS PLAN. SEE VARIOUS CONSULTANT PLANS FOR DESIGN, SIZING, CONNECTION POINTS, AND DETAILS.

NOTE: LEA & BRAZE ENGINEERING, INC. DOES NOT ASSUME RESPONSIBILITY FOR ANY MISSED OR INACCURATE LOCATIONS PROVIDED BY OTHER CONSULTANTS. SEE VARIOUS CONSULTANT PLANS FOR DESIGN DETAILS.

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REGISTERED PROFESSIONAL ENGINEER — PETER CARLOZZI — No. C79535 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
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05-10-19	BID SET ADDENDUM 1
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07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
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GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

	SCALE
	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.11

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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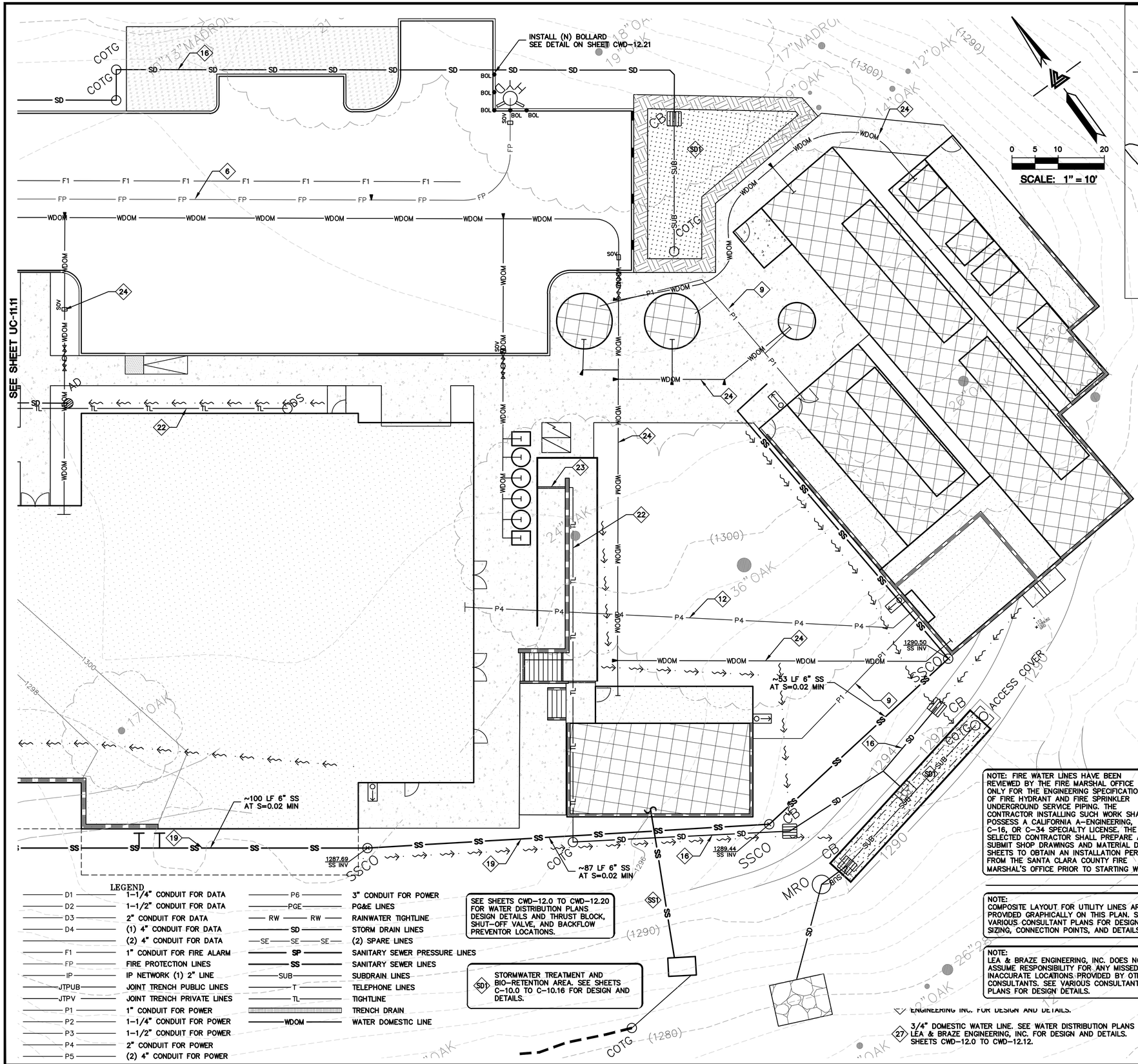

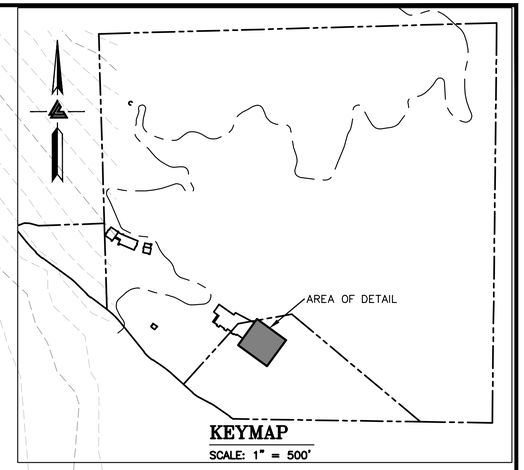

LEGEND

D1	1-1/4" CONDUIT FOR DATA	P6	3" CONDUIT FOR POWER
D2	1-1/2" CONDUIT FOR DATA	PGE	PG&E LINES
D3	2" CONDUIT FOR DATA	RW	RAINWATER TIGHTLINE
D4	(1) 4" CONDUIT FOR DATA	SD	STORM DRAIN LINES
	(2) 4" CONDUIT FOR DATA	SE	(2) SPARE LINES
F1	1" CONDUIT FOR FIRE ALARM	SP	SANITARY SEWER PRESSURE LINES
FP	FIRE PROTECTION LINES	SS	SANITARY SEWER LINES
IP	IP NETWORK (1) 2" LINE	SUB	SUBDRAIN LINES
JTPUB	JOINT TRENCH PUBLIC LINES	T	TELEPHONE LINES
JTPV	JOINT TRENCH PRIVATE LINES	TL	TIGHTLINE
P1	1" CONDUIT FOR POWER		TRENCH DRAIN
P2	1-1/4" CONDUIT FOR POWER	WDOM	WATER DOMESTIC LINE
P3	1-1/2" CONDUIT FOR POWER		
P4	2" CONDUIT FOR POWER		
P5	(2) 4" CONDUIT FOR POWER		

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SARATOGA, CA

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No. C79555
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ORIGINAL SIGNATURES IN BLUE INK

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07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY
RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
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LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
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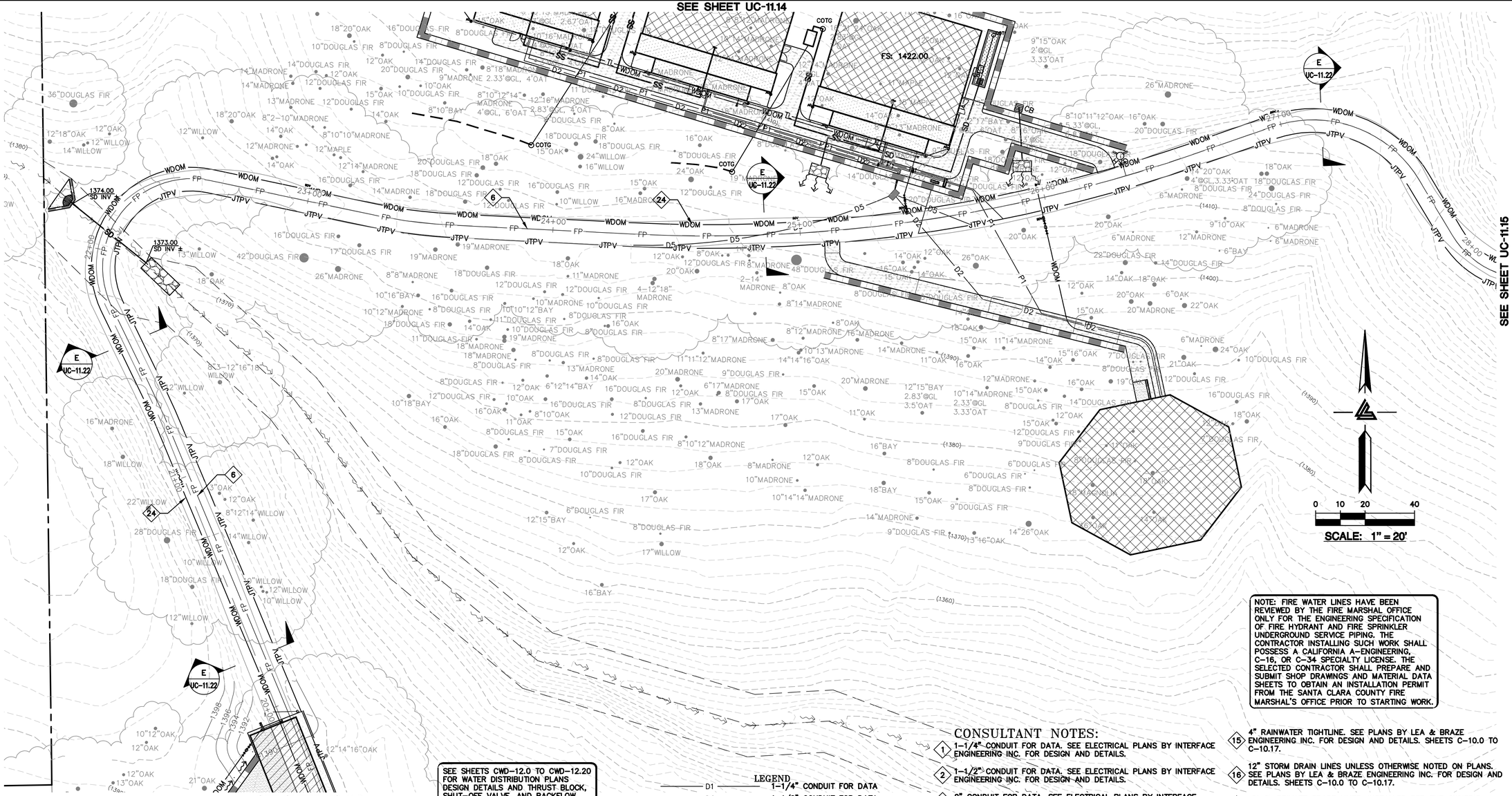
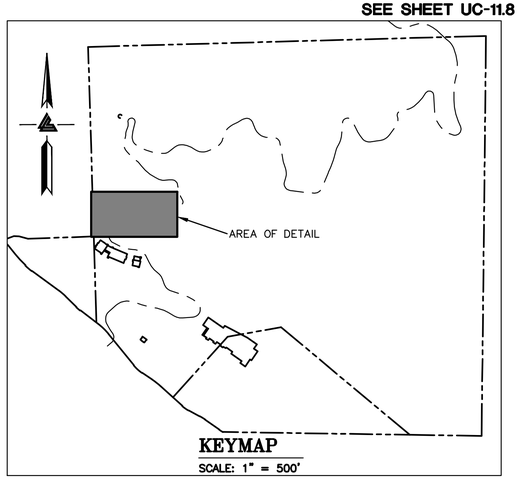
ASA/USE PERMIT
MODIFICATION #3
PLN-17-6943





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NOTE:
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3'X4' PRIVATE UTILITY VAULT WITH TRAFFIC RATED LID. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

13"X24" PRIVATE UTILITY VAULT. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

PB 13"X24" PRIVATE UTILITY PULL BOX/VAULT WITH TRAFFIC RATED LID. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

LEGEND

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IP	IP NETWORK (1) 2" LINE
JTPUB	JOINT TRENCH PUBLIC LINES
JTPV	JOINT TRENCH PRIVATE LINES
P1	1" CONDUIT FOR POWER
P2	1-1/4" CONDUIT FOR POWER
P3	1-1/2" CONDUIT FOR POWER
P4	2" CONDUIT FOR POWER
P5	(2) 4" CONDUIT FOR POWER
P6	3" CONDUIT FOR POWER
PGE	PG&E LINES
RW	RAINWATER TIGHTLINE
SD	STORM DRAIN LINES
SE	(2) SPARE LINES
SP	SANITARY SEWER PRESSURE LINES
SS	SANITARY SEWER LINES
SUB	SUBDRAIN LINES
T	TELEPHONE LINES
TL	TIGHTLINE
	TRENCH DRAIN
WDOM	WATER DOMESTIC LINE

CONSULTANT NOTES:

1. 1-1/4" CONDUIT FOR DATA. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
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6. (N) FIRE PROTECTION LINE. MINIMUM SIZE SHALL BE 8" HDPE (DR-11 OR SIMILAR). REFER TO WATER DISTRIBUTION PLANS FOR SIZING REQUIREMENTS AND POINT OF CONNECTION TO THE STRUCTURE. SHEETS CWD-12.0 TO CWD-12.20.
7. 2" IP NETWORK LINE. INSTALLED PER THE OWNER'S REQUEST.
8. INSTALL JOINT TRENCH FOR SERVICES INCLUDING CATV & ELECTRIC FROM NEAREST POINT OF CONNECTION. SEE PLANS BY MILLENNIUM DESIGN & CONSULTING, INC. FOR DESIGN AND DETAILS.
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15. 4" RAINWATER TIGHTLINE. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
16. 12" STORM DRAIN LINES UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
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19. 6" PVC (SDR-26) SANITARY SEWER LATERAL SLOPED AT 1% MINIMUM, UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS.
20. SUBDRAIN LINE. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
21. 4" PLASTIC CONDUITS FOR AT&T TELEPHONE LINE TO CROSS THE BRIDGE WITHIN THE SECOND VOID ON THE DOWNSTREAM/SOUTHEAST SIDE. SEE PLANS BY MILLENNIUM DESIGN & CONSULTING, INC. FOR DESIGN AND DETAILS.
22. 4" STORM DRAIN TIGHTLINE. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
23. 4" TRENCH DRAIN. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN & DETAILS. SHEETS C-10.0 TO C-10.17.
24. 3" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.
25. NOT USED.
26. 3" CONDUIT FOR POWER. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
27. 3/4" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.

NOTE: FIRE WATER LINES HAVE BEEN REVIEWED BY THE FIRE MARSHAL OFFICE ONLY FOR THE ENGINEERING SPECIFICATION OF FIRE HYDRANT AND FIRE SPRINKLER UNDERGROUND SERVICE PIPING. THE CONTRACTOR INSTALLING SUCH WORK SHALL POSSESS A CALIFORNIA A-ENGINEERING, C-16, OR C-34 SPECIALTY LICENSE. THE SELECTED CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS AND MATERIAL DATA SHEETS TO OBTAIN AN INSTALLATION PERMIT FROM THE SANTA CLARA COUNTY FIRE MARSHAL'S OFFICE PRIOR TO STARTING WORK.

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ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER CARLO NO. C79535 CIVIL STATE OF CALIFORNIA ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS - LAND SURVEYORS
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SAN JOSE, CA 95131-1845
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ROSEVILLE, CA 95661
(P) (916)966-1338
(F) (916)797-7363
WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
09-06-18	GRADING PERMIT PLAN CHECK 4
12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
05-10-19	BID SET ADDENDUM 1
05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 – PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.13

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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0 5 10 20

SCALE: 1" = 10'

SEE SHEET UC-11.15

SEE SHEET UC-11.13

SEE SHEETS CWD–12.0 TO CWD–12.20 FOR WATER DISTRIBUTION PLANS DESIGN DETAILS AND THRUST BLOCK, SHUT–OFF VALVE, AND BACKFLOW PREVENTOR LOCATIONS.

SD1 STORMWATER TREATMENT AND BIO–RETENTION AREA. SEE SHEETS C–10.0 TO C–10.16 FOR DESIGN AND DETAILS.

SS1 SEPTIC SYSTEMS FOR INDIVIDUAL ENCLOSURES UNDER SEPARATE PERMIT. SEE SEPTIC PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS.

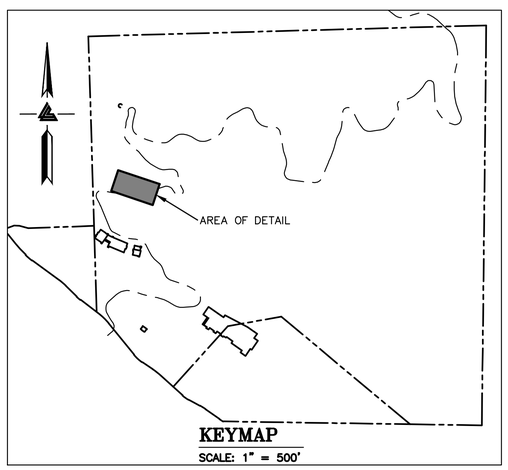
NOTE:
COMPOSITE LAYOUT FOR UTILITY LINES ARE PROVIDED GRAPHICALLY ON THIS PLAN. SEE VARIOUS CONSULTANT PLANS FOR DESIGN, SIZING, CONNECTION POINTS, AND DETAILS.

NOTE:
LEA & BRAZE ENGINEERING, INC. DOES NOT ASSUME RESPONSIBILITY FOR ANY MISSED OR INACCURATE LOCATIONS PROVIDED BY OTHER CONSULTANTS. SEE VARIOUS CONSULTANT PLANS FOR DESIGN DETAILS.

3'X4' PRIVATE UTILITY VAULT WITH TRAFFIC RATED LID. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

13"X24" PRIVATE UTILITY VAULT. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

P3 13"X24" PRIVATE UTILITY PULL BOX/VAULT WITH TRAFFIC RATED LID. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.



KEYMAP
SCALE: 1" = 500'

LEGEND

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D2	1–1/2" CONDUIT FOR DATA
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ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — PETER CARLINO — NO. C79555 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS • LAND SURVEYORS
BAY AREA REGION
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ISSUES AND REVISIONS

DATE	DESCRIPTION
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12–21–18	PERMIT RESUBMITTAL
03–26–19	PERMIT MODIFICATION PLAN CHECK 1
04–11–19	ASA DELTA 2
04–22–19	BID SET
05–10–19	BID SET ADDENDUM 1
05–22–19	UTILITY PLAN CHECK 1
08–06–19	PHASE 4 – PERMIT SUBMITTAL
09–20–19	CONSTRUCTION SET 1
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05–29–20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
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SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC–11.14

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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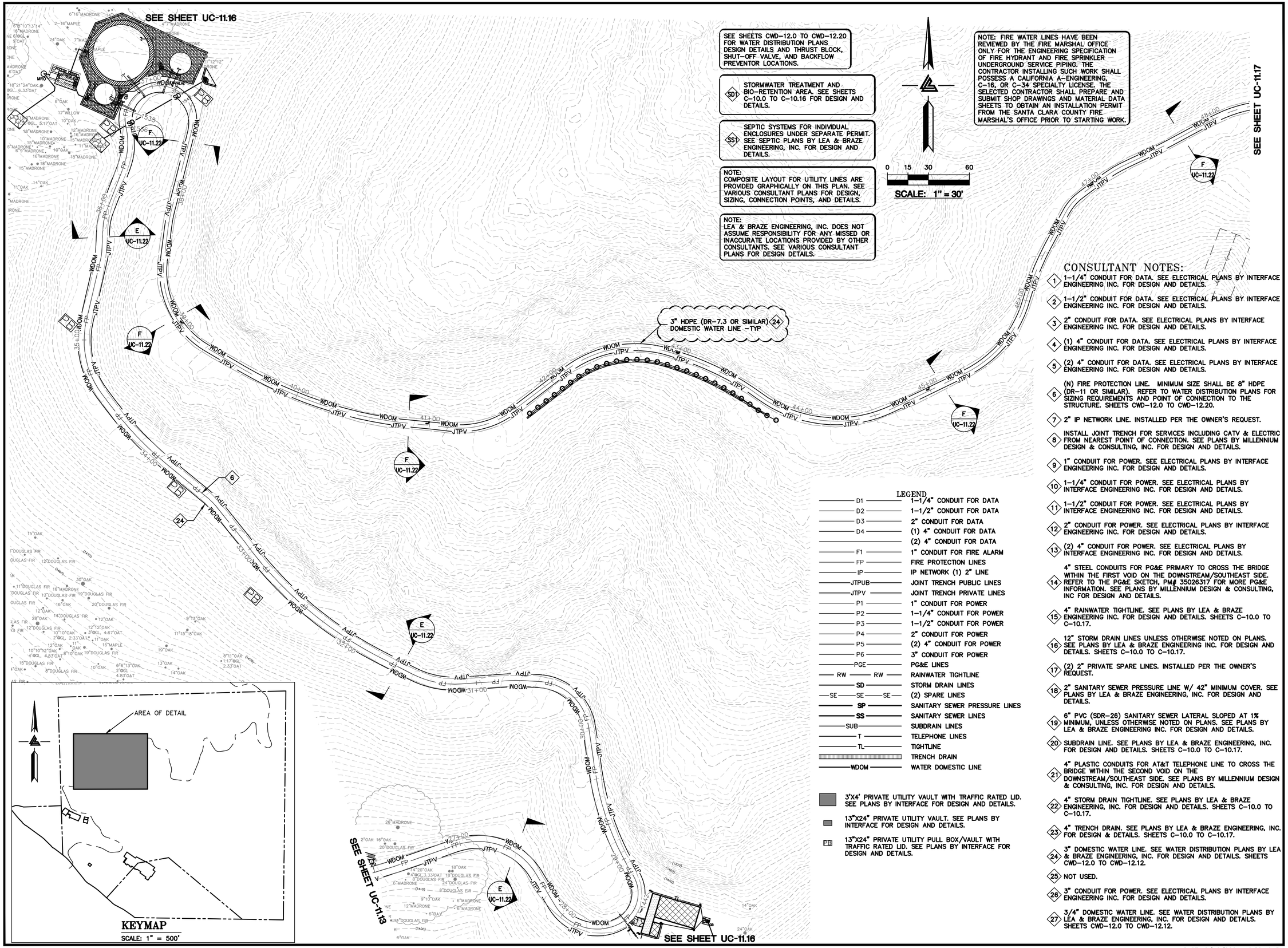

LEGEND

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PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE
1" = 30'

Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.15

ASA/USE PERMIT MODIFICATION #3
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PLOT: 2/16/2021 12:52:49 PM

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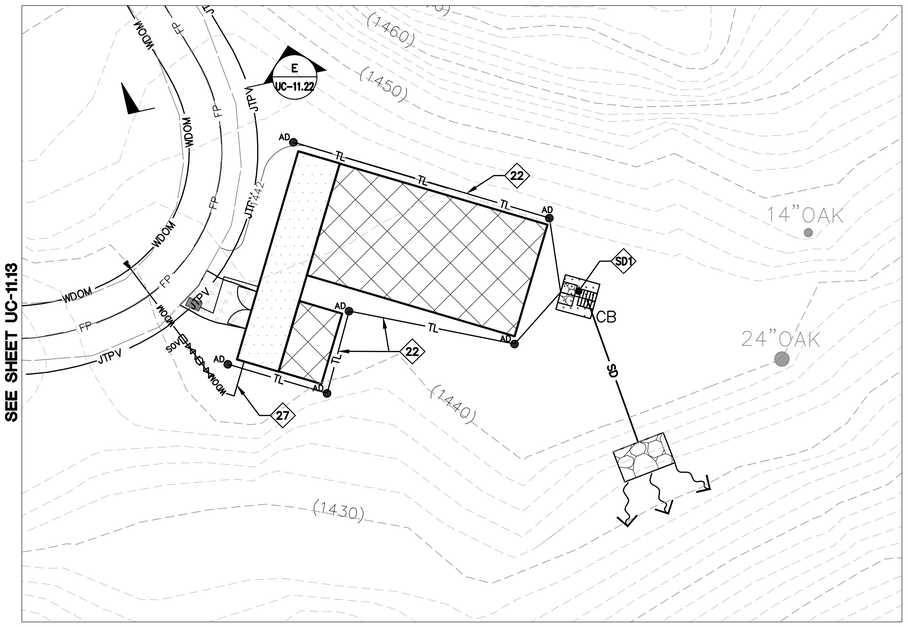

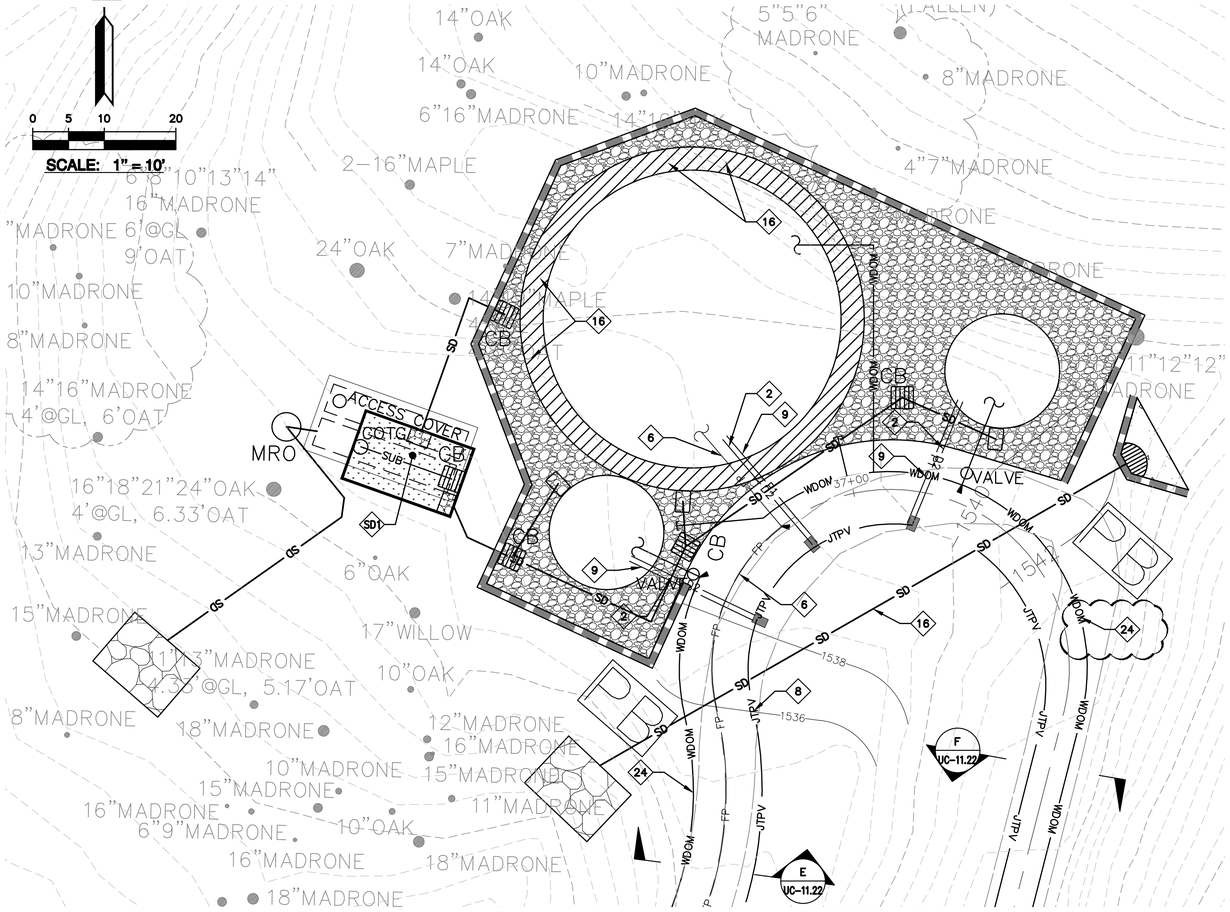

CONSULTANT NOTES:

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2. 1–1/2" CONDUIT FOR DATA. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
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6. (N) FIRE PROTECTION LINE. MINIMUM SIZE SHALL BE 8" HDPE (DR–11 OR SIMILAR). REFER TO WATER DISTRIBUTION PLANS FOR SIZING REQUIREMENTS AND POINT OF CONNECTION TO THE STRUCTURE. SHEETS CWD–12.0 TO CWD–12.20.
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P6	3" CONDUIT FOR POWER
PGE	PG&E LINES
RW	RAINWATER TIGHTLINE
SD	STORM DRAIN LINES
SE	(2) SPARE LINES
SP	SANITARY SEWER PRESSURE LINES
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SUB	SUBDRAIN LINES
T	TELEPHONE LINES
TL	TIGHTLINE
	TRENCH DRAIN
WDOM	WATER DOMESTIC LINE

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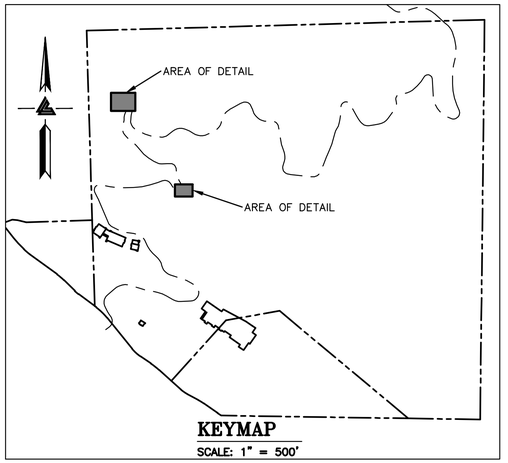
3'X4' PRIVATE UTILITY VAULT WITH TRAFFIC RATED LID. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

13"X24" PRIVATE UTILITY VAULT. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.

PB 13"X24" PRIVATE UTILITY PULL BOX/VAULT WITH TRAFFIC RATED LID. SEE PLANS BY INTERFACE FOR DESIGN AND DETAILS.



ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER
PETER CARLISLE
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CIVIL
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ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

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(F) (510) 887–3019

SACRAMENTO REGION
3017 DOUGLAS BLVD, # 300
ROSEVILLE, CA 95661
(P) (916)966–1338
(F) (916)797–7363
WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
09–06–18	GRADING PERMIT PLAN CHECK 4
12–21–18	PERMIT RESUBMITTAL
03–26–19	PERMIT MODIFICATION PLAN CHECK 1
04–11–19	ASA DELTA 2
04–22–19	BID SET
05–10–19	BID SET ADDENDUM 1
05–22–19	UTILITY PLAN CHECK 1
08–06–19	PHASE 4 – PERMIT SUBMITTAL
09–20–19	CONSTRUCTION SET 1
01–28–20	PERMIT MODIFICATION 2
05–29–20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07–22–20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE
1" = 10'
Designed By PC / CA
Checked By PC / JL
LB Job No. 2130712

SHEET NUMBER

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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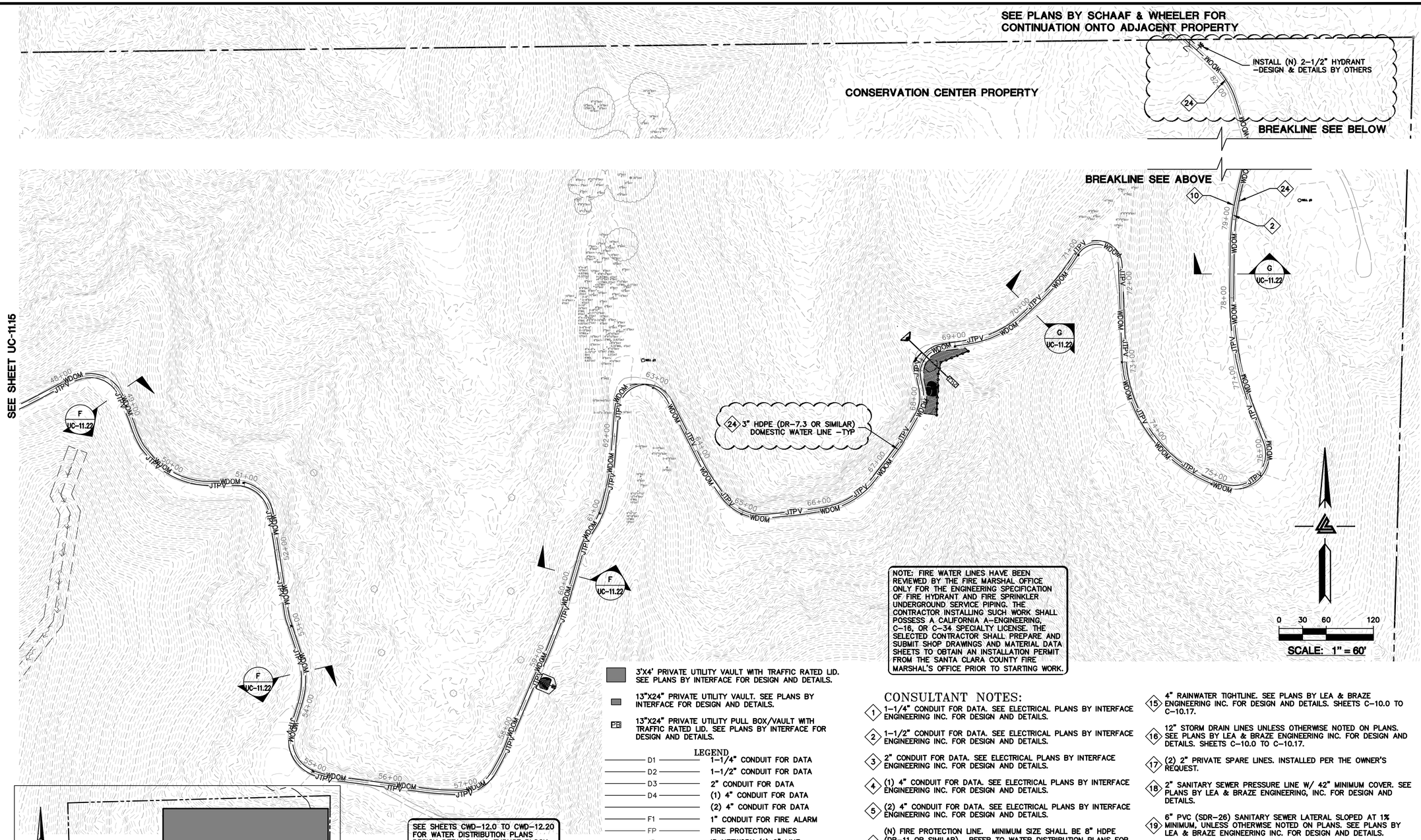
PLOT: 2/16/2021 12:54:21 PM



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PLOT: 2/16/2021 12:56:03 PM

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — WALTER CARLISLE — No. C79535 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

LEA & BRAZE ENGINEERING, INC.
CIVIL ENGINEERS - LAND SURVEYORS
BAY AREA REGION
2495 INDUSTRIAL PKWY WEST
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3017 DOUGLAS BLVD. # 300
ROSEVILLE, CA 95661
(P) (916)966-1338
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WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
09-06-18	GRADING PERMIT PLAN CHECK 4
12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
05-10-19	BID SET ADDENDUM 1
05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 - PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
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05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
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ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

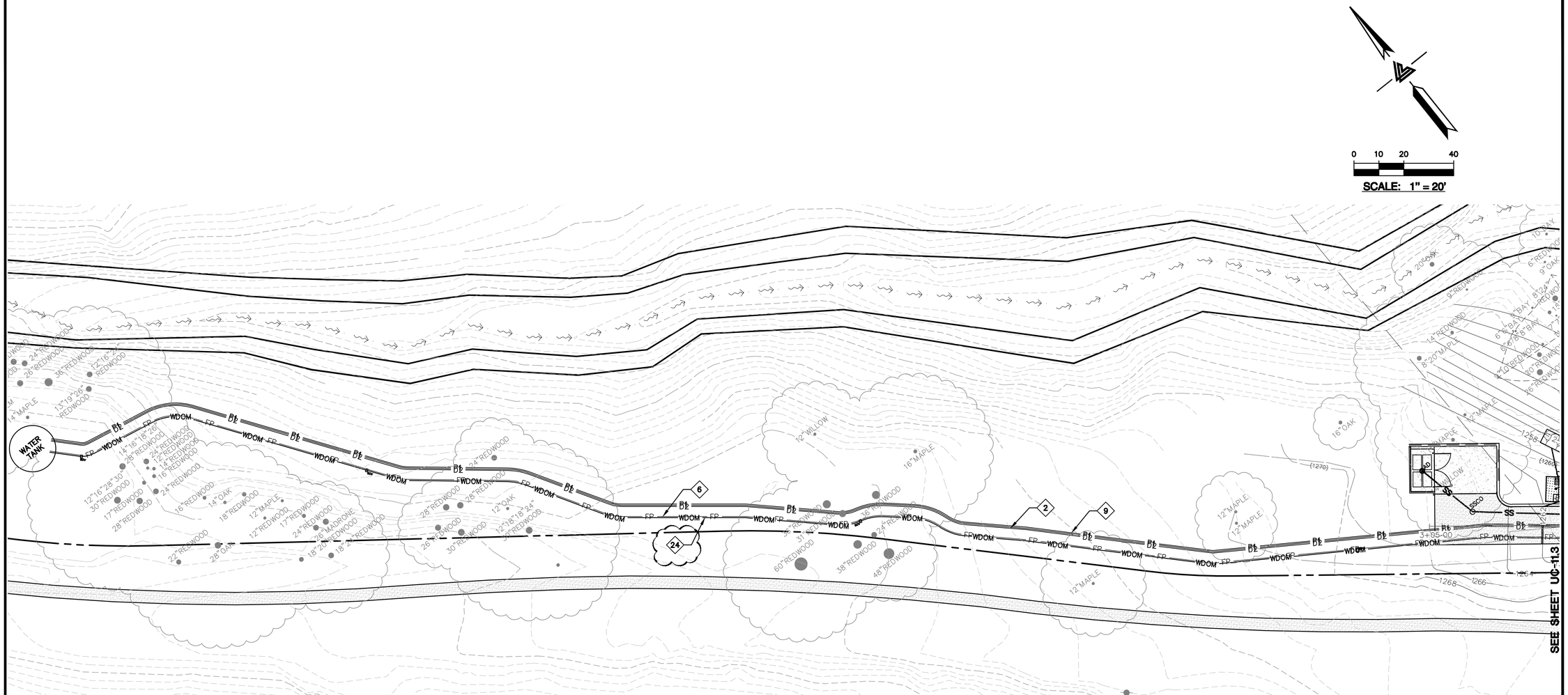
PROJECT NUMBER
16011.00

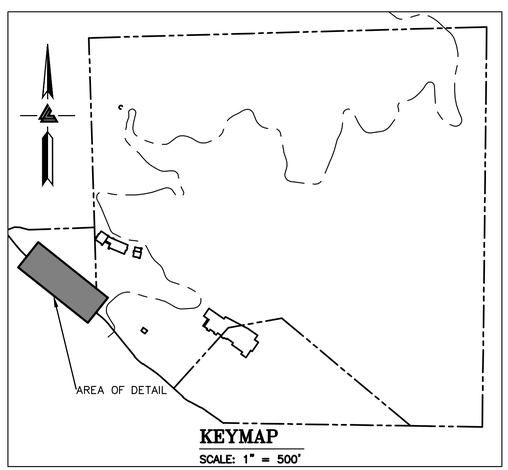
SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 60'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.17

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943





KEYMAP

SCALE: 1" = 500'

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12. 2" CONDUIT FOR POWER. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
13. (2) 4" CONDUIT FOR POWER. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
14. 4" STEEL CONDUITS FOR PG&E PRIMARY TO CROSS THE BRIDGE WITHIN THE FIRST VOID ON THE DOWNSTREAM/SOUTHEAST SIDE. REFER TO THE PG&E SKETCH, PM# 35026317 FOR MORE PG&E INFORMATION. SEE PLANS BY MILLENNIUM DESIGN & CONSULTING, INC FOR DESIGN AND DETAILS.
15. 4" RAINWATER TIGHTLINE. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
16. 12" STORM DRAIN LINES UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
17. (2) 2" PRIVATE SPARE LINES. INSTALLED PER THE OWNER'S REQUEST.
18. 2" SANITARY SEWER PRESSURE LINE W/ 42" MINIMUM COVER. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS.
19. 6" PVC (SDR-26) SANITARY SEWER LATERAL SLOPED AT 1% MINIMUM, UNLESS OTHERWISE NOTED ON PLANS. SEE PLANS BY LEA & BRAZE ENGINEERING INC. FOR DESIGN AND DETAILS.
20. SUBDRAIN LINE. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
21. 4" PLASTIC CONDUITS FOR AT&T TELEPHONE LINE TO CROSS THE BRIDGE WITHIN THE SECOND VOID ON THE DOWNSTREAM/SOUTHEAST SIDE. SEE PLANS BY MILLENNIUM DESIGN & CONSULTING, INC. FOR DESIGN AND DETAILS.
22. 4" STORM DRAIN TIGHTLINE. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS C-10.0 TO C-10.17.
23. 4" TRENCH DRAIN. SEE PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN & DETAILS. SHEETS C-10.0 TO C-10.17.
24. 3" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.
25. NOT USED.
26. 3" CONDUIT FOR POWER. SEE ELECTRICAL PLANS BY INTERFACE ENGINEERING INC. FOR DESIGN AND DETAILS.
27. 3/4" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.

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CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER
WALTER CARLSON
No. C79535
CIVIL
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
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05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 – PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY
RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY PLAN

SCALE	1" = 20'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.18

ASA/USE PERMIT
MODIFICATION #3
PLN-17-6943

Updated Separation Requirements For Conduit in Joint Trench

WHAT YOU NEED TO KNOW

Utility Standard S5453, "Joint Trench," Exhibit B, currently shows:

MINIMUM SEPARATION AND CLEARANCE REQUIREMENTS

			G	DUCT T	DB T	C	S	P
G	(GAS) SEE NOTES 4, 7 & 13		—	12"	12"	12"	6"	12"
T	(TELEPHONE) DUCT		12"	—	1"	1"	12"	12"
T	(TELEPHONE)	DIRECT BURY	12"	1"	—	1"	12"	12"
C	(CATV)		12"	1"	1"	—	12"	12"
S	(ELECTRIC SECONDARY)		6"	12"	12"	12"	—	3"
P	(ELECTRIC PRIMARY)		12"	12"	12"	12"	3"	—
SL	(STREETLIGHT)	SEE NOTE 5	6"	12"	12"	12"	1"	3"

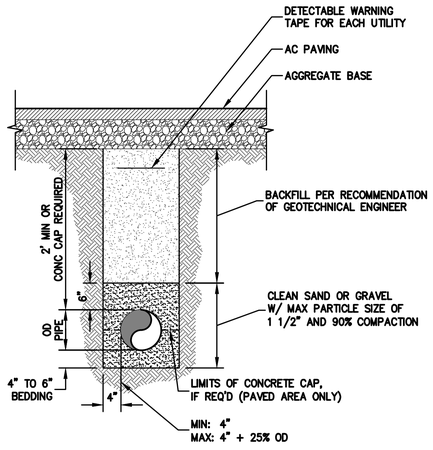
Utility Standard S5453, "Joint Trench," Exhibit B, is updated per this bulletin as follows:

MINIMUM SEPARATION AND CLEARANCE REQUIREMENTS (inches)

		G	DUCT T	DB T	C	S	P	SL
G	(GAS) SEE NOTES 4,7, & 13	-	12	12	12	6	12	6
T	(TELEPHONE) DUCT	12	-	1	1	12	12	12
T	(TELEPHONE) DIRECT BURY	12	1	-	1	12	12	12
C	(CATV)	12	1	1	-	12	12	12
S	(ELECTRIC SECONDARY)	6	12	12	12	1.5	3	1.5
P	(ELECTRIC PRIMARY)	12	12	12	12	3	3	3
SL	(STREETLIGHT) SEE NOTE 5	6	12	12	12	1.5	3	1.5
FE*	(FOREIGN ELECTRIC SOURCES, NON-PG&E*) SEE NOTE 5	12	12**	12**	12**	12	12	12

*Must be considered a "Utility" as defined in Utility Standard S5453, "Joint Trench."
Notes 4, 5, 7, and 13 are located in Utility Standard S5453, Exhibit B, "Joint Trench Configurations and Occupancy Guide."
**For exceptions, refer to G.O. 128 rule, Section B, Items (1) and (2).

PRIVATE UTILITY



PIPELINE BACKFILL
NTS

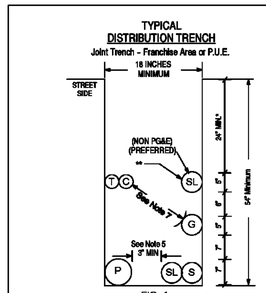
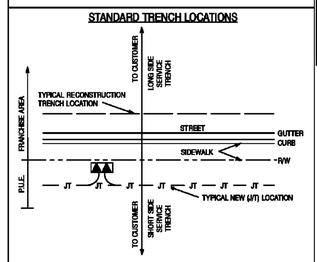


FIG. 1

Placement of the Distribution Trench within a P.U.E. is the preferred method. Trenching in the Franchise Area should only be used when a P.U.E. is uncobtainable or otherwise infeasible.
* Increase cover to 30" in the street area (see Note 3).
** Separation must be 12" unless a reduction (6") is mutually agreed upon by affected utilities.



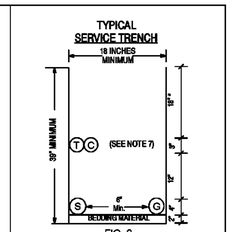


FIG. 2
(View facing Distribution Trench)

MINIMUM SEPARATION AND CLEARANCE REQUIREMENTS

			G	DUCT T	DB T	C	S	P
G	(GAS) SEE NOTES 4, 7 & 13		—	12"	12"	12"	6"	12"
T	(TELEPHONE) DUCT		12"	—	1"	1"	12"	12"
T	(TELEPHONE)	DIRECT BURY	12"	1"	—	1"	12"	12"
C	(CATV)		12"	1"	1"	—	12"	12"
S	(ELECTRIC SECONDARY)		6"	12"	12"	12"	—	3"
P	(ELECTRIC PRIMARY)		12"	12"	12"	12"	3"	—
SL	(STREETLIGHT)	SEE NOTE 5	6"	12"	12"	12"	1"	3"

SEPARATION AND CLEARANCE DEFINITIONS

Cover:
The term "cover" means the radial distance between the surface of an underground cable, conduit, pipe, or other substructure and the surface elevation (grade).

Backfill:
The term "backfill" refers to the materials used to refill a cut or other excavation, or the act of such refilling after any needed shading is performed.

Shading:
The term "shading" refers to the materials used to provide a measure of separation between facilities installed at different levels within an excavation or cut.

Lift:
The term "lift" is a layer of fill as spread or as compacted or a measurement of material depth that is the rated effective soil depth a compactor can achieve.

Bedding:
The term "bedding" refers to the materials installed beneath facilities at the bottom of a cut or other excavation and intended to provide support and/or protection for those facilities.

JOINT TRENCH CONFIGURATIONS & OCCUPANCY GUIDE 09-27-06

PRIVATE UTILITY

OTHER TYPICAL PG&E DISTRIBUTION JOINT TRENCH CONFIGURATIONS

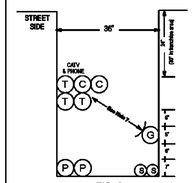


FIG. 3
36" Wide Joint Trench

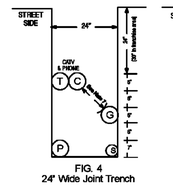


FIG. 4
24" Wide Joint Trench

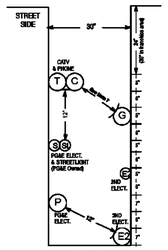


FIG. 5
Joint Trench With Second Electric Utility

Trench Configuration Notes

The trench configurations shown in this guide are to be considered "typical" only and that other trench widths, depths, as well as utility configurations (placement) may be used, provided all minimum requirements for separation, clearances, and cover are observed. In no case shall electric primary or secondary (excluding street lighting) be placed at a level higher than that of the gas and communications level. Gas shall be placed at the same level or below communications when gas is placed above the electric facilities.

JOINT TRENCH CONFIGURATIONS & OCCUPANCY GUIDE 09-27-06

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07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY DETAILS

	SCALE
	1" = 20'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.19

ASA/USE PERMIT MODIFICATION #3
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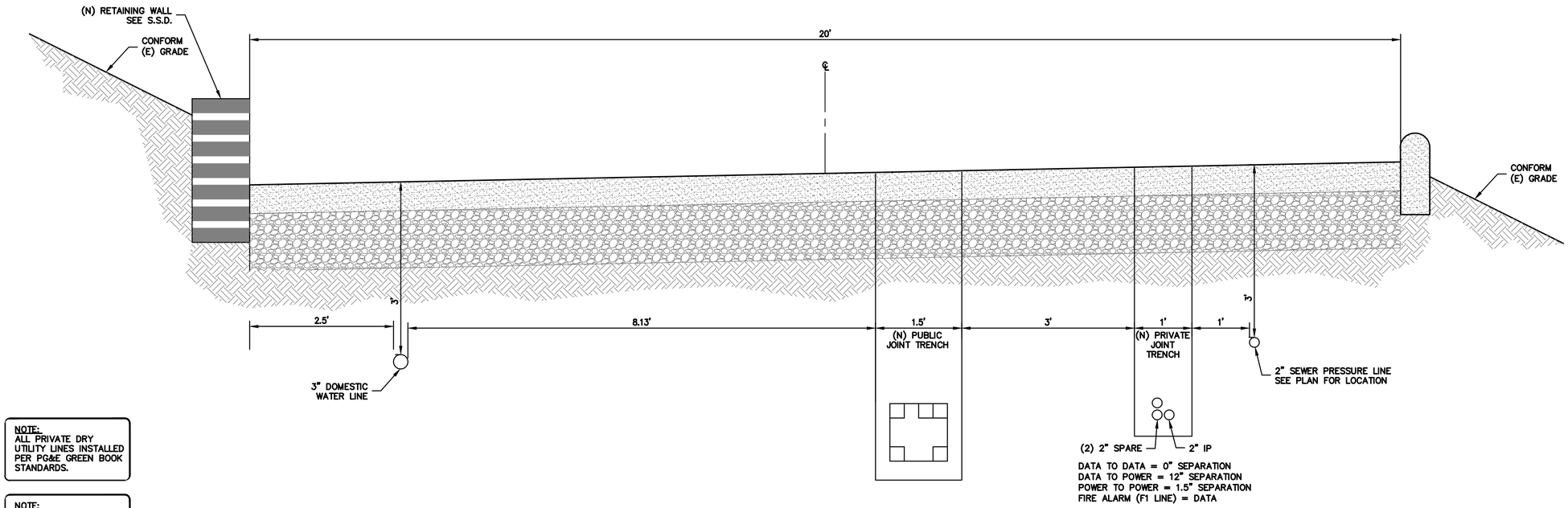
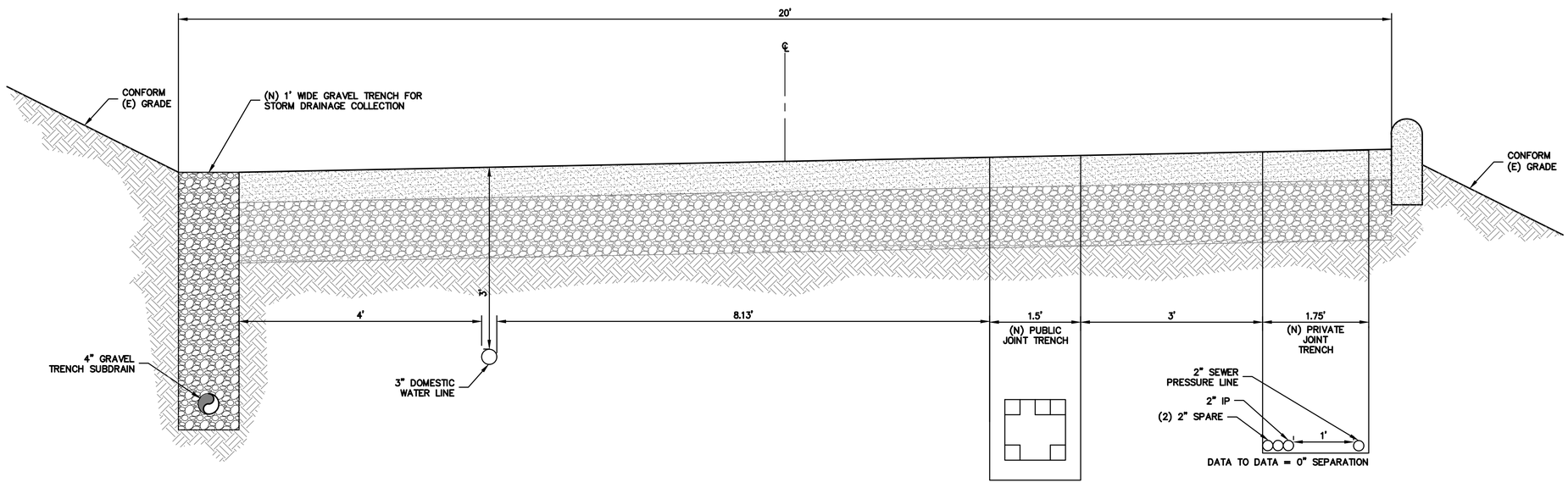


NOTE:
ALL PRIVATE DRY UTILITY LINES INSTALLED PER PG&E GREEN BOOK STANDARDS.

NOTE:
DIMENSIONS ARE GIVEN FROM ℄ TO ℄ OF PIPE. DIMENSIONS TO JOINT TRENCH ARE GIVEN FROM EDGE OF TRENCH TO ℄ OF PIPE.

UTILITY SECTION A

SCALE: 1" = 1' HORIZ & VERT



UTILITY SECTION B

SCALE: 1" = 1' HORIZ & VERT

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05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY
RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
UTILITY SECTIONS

SCALE
AS SHOWN

Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.20

ASA/USE PERMIT
MODIFICATION #3
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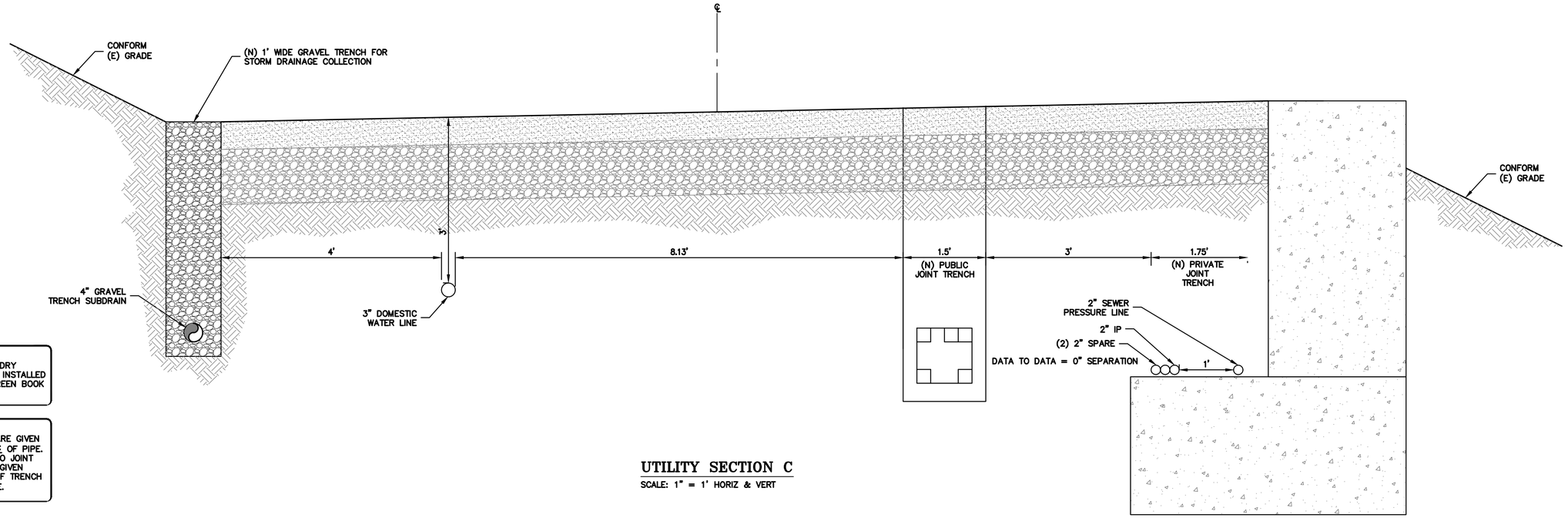

NOTE:
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NOTE:
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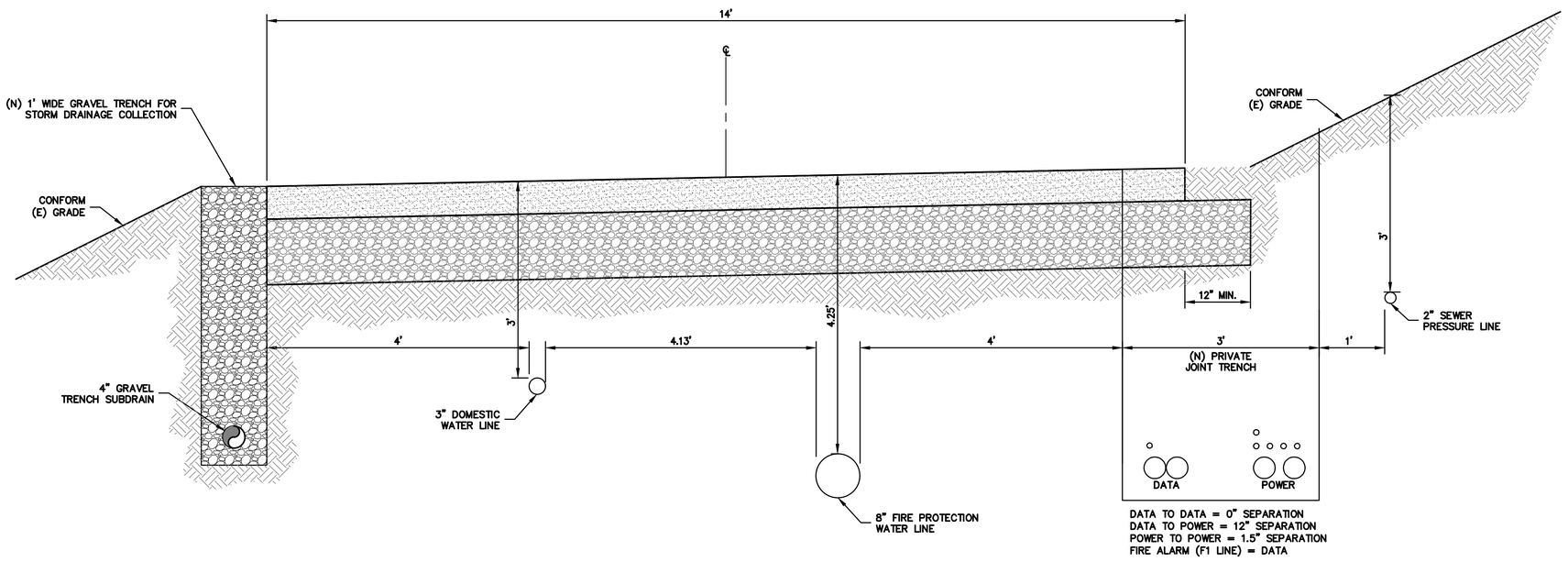
UTILITY SECTION C

SCALE: 1" = 1' HORIZ & VERT



UTILITY SECTION D

SCALE: 1" = 1' HORIZ & VERT

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PROJECT NUMBER
16011.00

SHEET TITLE
UTILITY SECTIONS

	SCALE
	AS SHOWN
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.21

ASA/USE PERMIT
MODIFICATION #3
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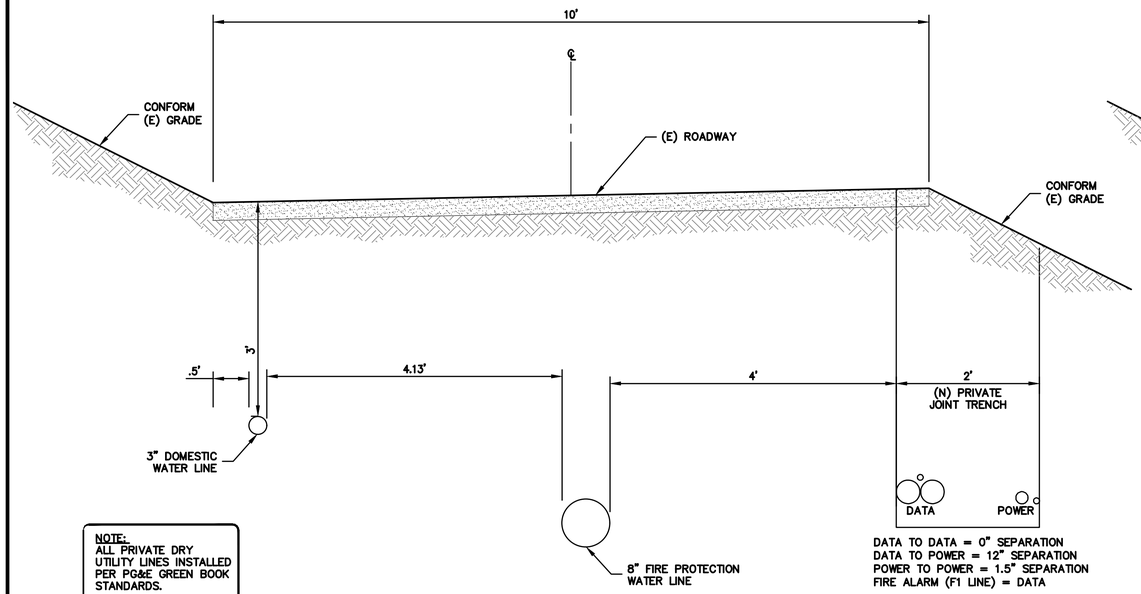

DATA TO DATA = 0" SEPARATION
DATA TO POWER = 12" SEPARATION
POWER TO POWER = 1.5" SEPARATION
FIRE ALARM (F1 LINE) = DATA

NOTE:
ALL PRIVATE DRY UTILITY LINES INSTALLED PER PG&E GREEN BOOK STANDARDS.

NOTE:
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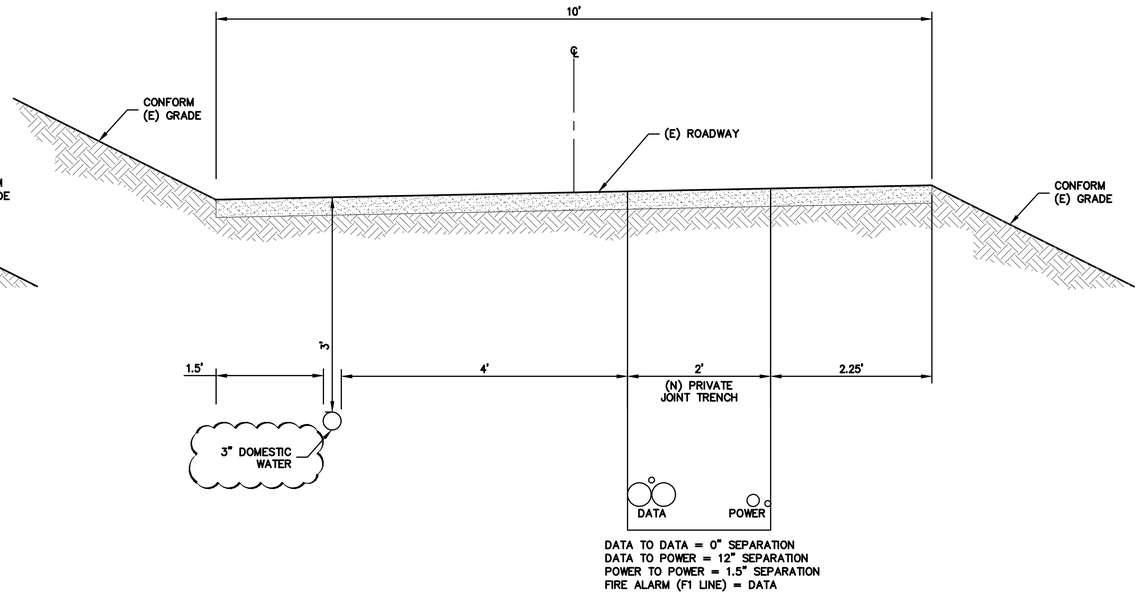
UTILITY SECTION E

SCALE: 1" = 1' HORIZ & VERT



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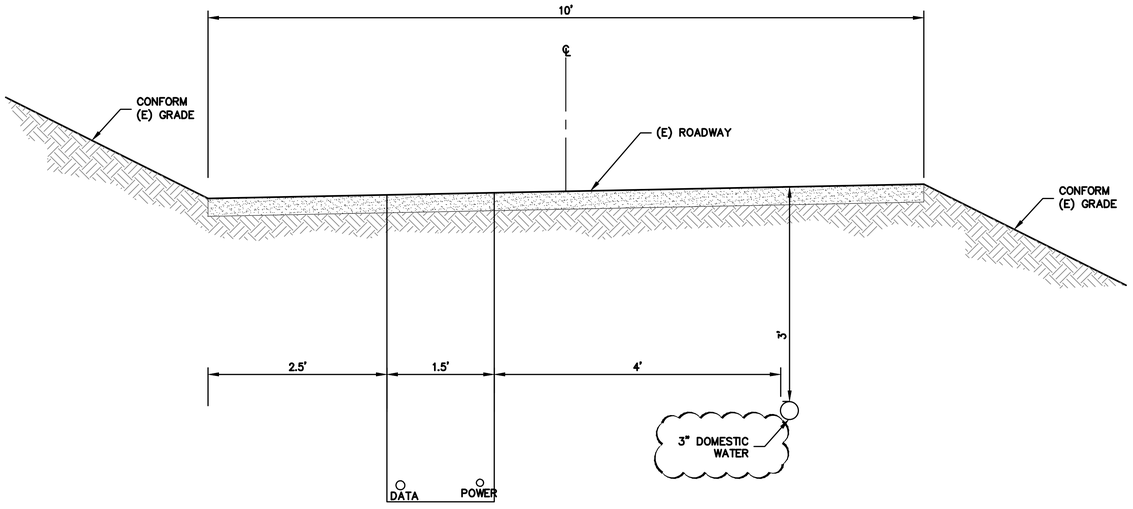
DATA TO POWER = 12" SEPARATION
POWER TO POWER = 1.5" SEPARATION
FIRE ALARM (F1 LINE) = DATA

UTILITY SECTION F

SCALE: 1" = 1' HORIZ & VERT



DATA TO DATA = 0" SEPARATION
DATA TO POWER = 12" SEPARATION
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FIRE ALARM (F1 LINE) = DATA

UTILITY SECTION G

SCALE: 1" = 1' HORIZ & VERT

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05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY
RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
UTILITY SECTIONS

	SCALE
	AS SHOWN
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.22

ASA/USE PERMIT
MODIFICATION #3
PLN-17-6943

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PUMP SYSTEM WORKSHEET

Applicant SF Pacific LLC Date 04/10/2018
Owner SF Pacific LLC File No. 6943-12P-12A-12G-12EIR
Site Address 24103 Congress Springs Dr. City Saratoga APN 503-44-019
Designer (REHS or RCE) Peter Carlino - RCE 79555
Number of bedrooms N/A Total square footage of living space N/A
Septic tank size 4000 gal. Installed drainfield 562 linear ft. Expansion drainfield 562 linear ft.

Elevation of highest drainfield (ft) 1382 ft.
Elevation of pump off (ft) - 1256 ft.
Total lift (Ft Head) = 126 ft. (A)

TIGHT LINE
Diameter of tight line (inches) 1-1/4 in.
Length of tight line from pump to upper drainfield (ft) 1237 ft. (B)

FITTINGS

No. of Fittings		Pipe Length Equivalent (ft) See chart	Total Pipe Equivalent (ft)
___ 90° standard elbow	X		=
5 45° standard elbow	X	3	= 15
6 90° long radius elbow	X	6	= 36
1 other fittings	X	10	= 10
___ gate valve (fully open)	X		=
1 check valve (conventional swing)	x	2	= 2
		TOTAL=	63 (C)

Total Length of Pipe = B + C = 1300 (D)

CALCULATIONS:

Friction Loss in Pipes and Fittings:
(D/100 ft) x .354 (friction loss per chart) = 4.62 (E) Head in Feet

Required Pump Size:
126 (A) + 4.62 (E) = 130.62 (F) Total Pumping Head in Feet

Pump Size:
(F) versus GPM = Pump Size (refer to pump curve)

Pump Model: (Attach Pump Curve)
19.2 GPM at 200 (G) (ft of head: from pump curve) Manufacturer/Model Orenco PF3010

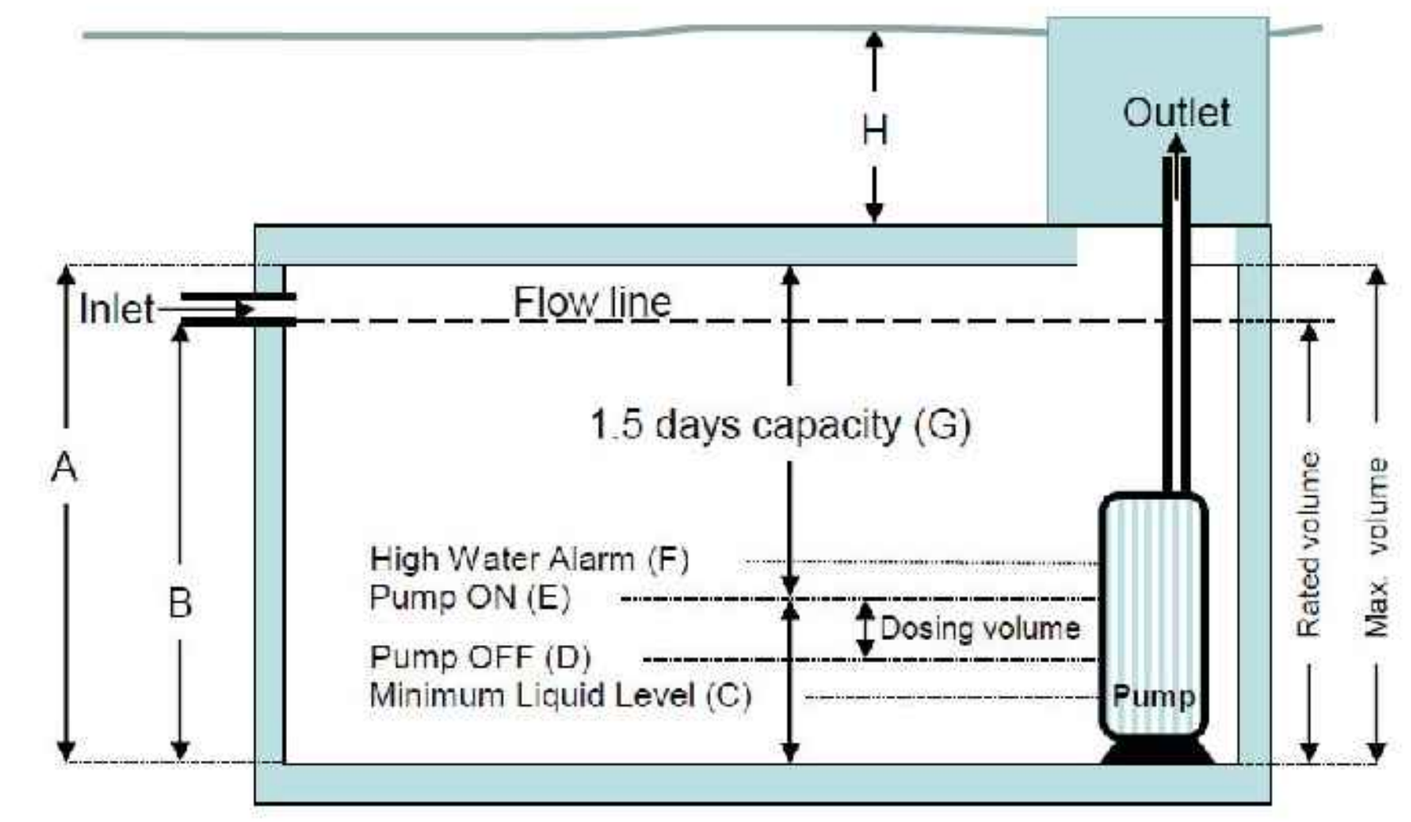
Required Capacity in Gallons
Dosing Volume 425 gallons
Storage Capacity (1 ½ days) 3105 gallons
Pump Displacement 19.2 gpm
Volume from tank bottle to pump base 842.88 gallons
Total tank capacity 4000 gallons

Pump Tank Information
Manufacturer Jensen Precast Size 4000 gallons Gallons per inch 52.68 gal/inch

Updated 3/14 5

Pump Tank Diagram

to be included on the design plan



Pump Tank Manufacturer/Model:

A	B	C	D	E	F	G	H
6-9"	5-6"	4"	8"	23"	27"	4'-11"	12"

Updated 3/14 4

Orenco Systems — Technical Data Sheet

PF Series 60-Hz, 4-inch (100-mm) Submersible Effluent Pumps

Applications

Our 4-inch (100-mm) Submersible Effluent Pumps are designed to transport screened effluent (with low TSS counts) from septic tanks or separate dosing tanks. All our pumps are constructed of lightweight, corrosion-resistant stainless steel and engineered plastics; all are field-serviceable and repairable with common tools; 60-Hz PF Series models are CSA certified to the U.S. and Canadian safety standards for effluent pumps, meeting UL requirements.

Orenco's Effluent Pumps are used in a variety of applications, including pressurized drainfields, packed bed filters, mounds, aerobic units, effluent irrigation, effluent sewers, wetlands, lagoons, and more. These pumps are designed to be used with a Biotube® pump vault or after a secondary treatment system.



LR80980
LR2053896
Powered by Franklin Electric

Features/Specifications

To specify this pump for your installation, require the following:

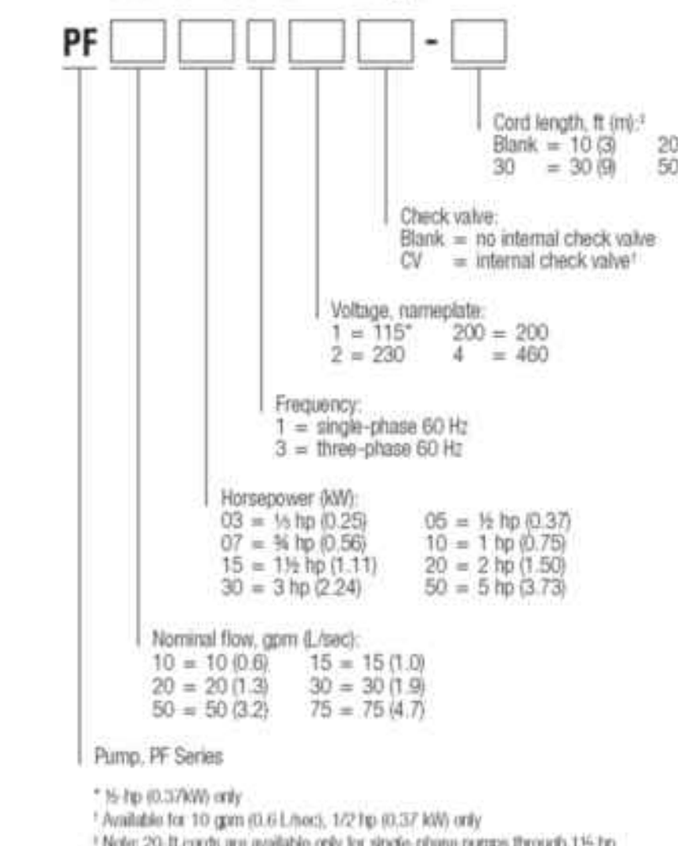
- Minimum 24-hour run-dry capability with no deterioration in pump life or performance*
- Patented 1/8-inch (3-mm) bypass orifice to ensure flow recirculation for motor cooling and to prevent air bind
- Liquid end repair kits available for better long-term cost of ownership
- TRI-SEAL™ floating impeller design on 10, 15, 20, and 30 gpm (0.6, 1.0, 1.3, and 1.9 L/sec) models; floating stack design on 50 and 75 gpm (3.2 and 4.7 L/sec) models
- Franklin Electric Super Stainless motor, rated for continuous use and frequent cycling
- Type SOOW 600-V motor cable

* Not applicable for 5-hp (3.73 kW) models

Standard Models

See specifications chart, pages 2-3, for a list of standard pumps. For a complete list of available pumps, call Orenco.

Product Code Diagram



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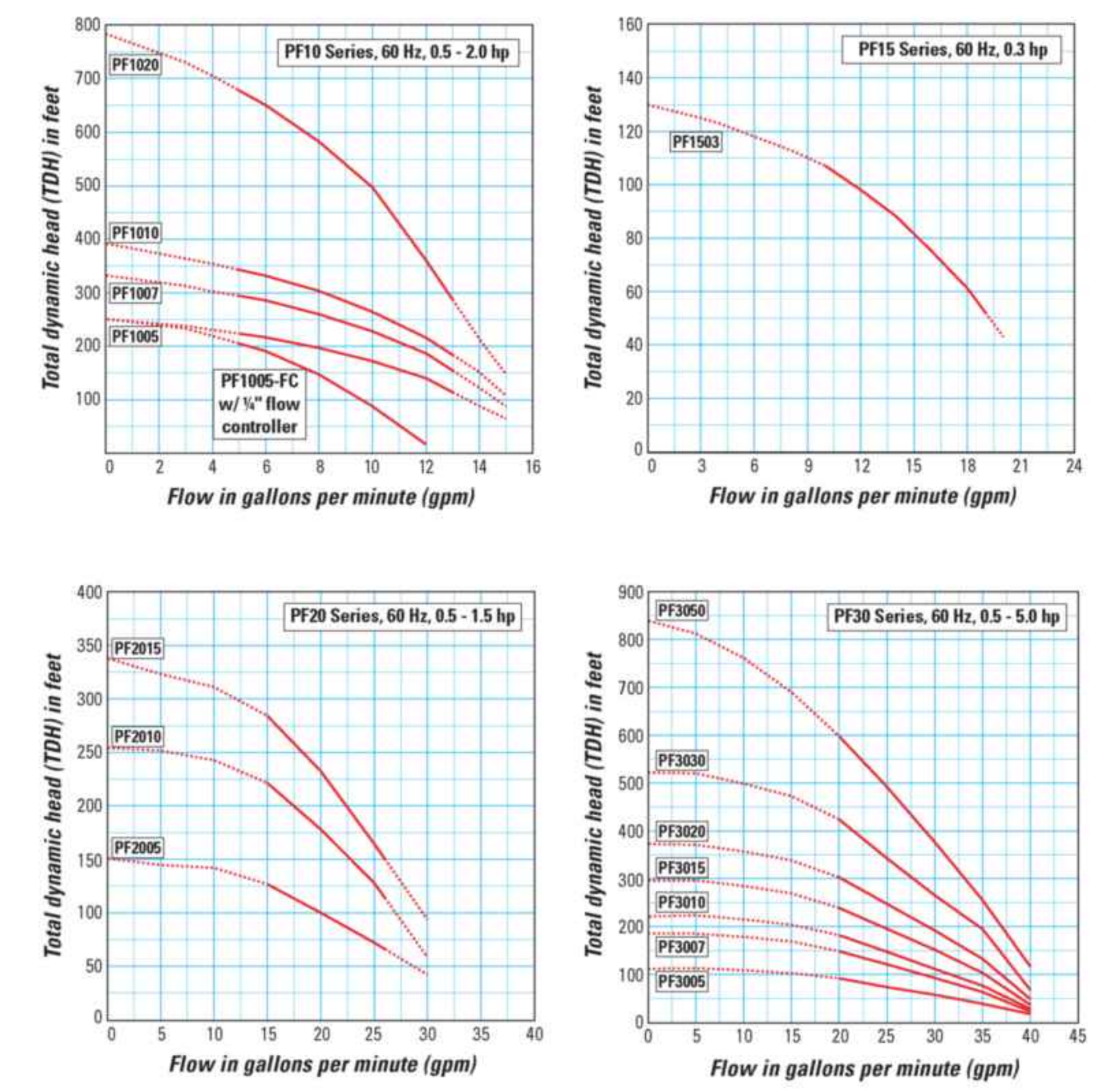
NTD-PU-PF-1 Rev. 5.0, © 03/17 Page 1 of 5

Orenco Systems — Technical Data Sheet

Using a Pump Curve

A *pump curve* helps you determine the best pump for your system. Pump curves show the relationship between flow and pressure (total dynamic head, or TDH), providing a graphical representation of a pump's optimal performance range. Pumps perform best at their nominal flow rate. These graphs show optimal pump operation ranges with a solid line and show flow rates outside of these ranges with a dashed line. For the most accurate pump specification, use Orenco's PumpSelect™ software.

Pump Curves



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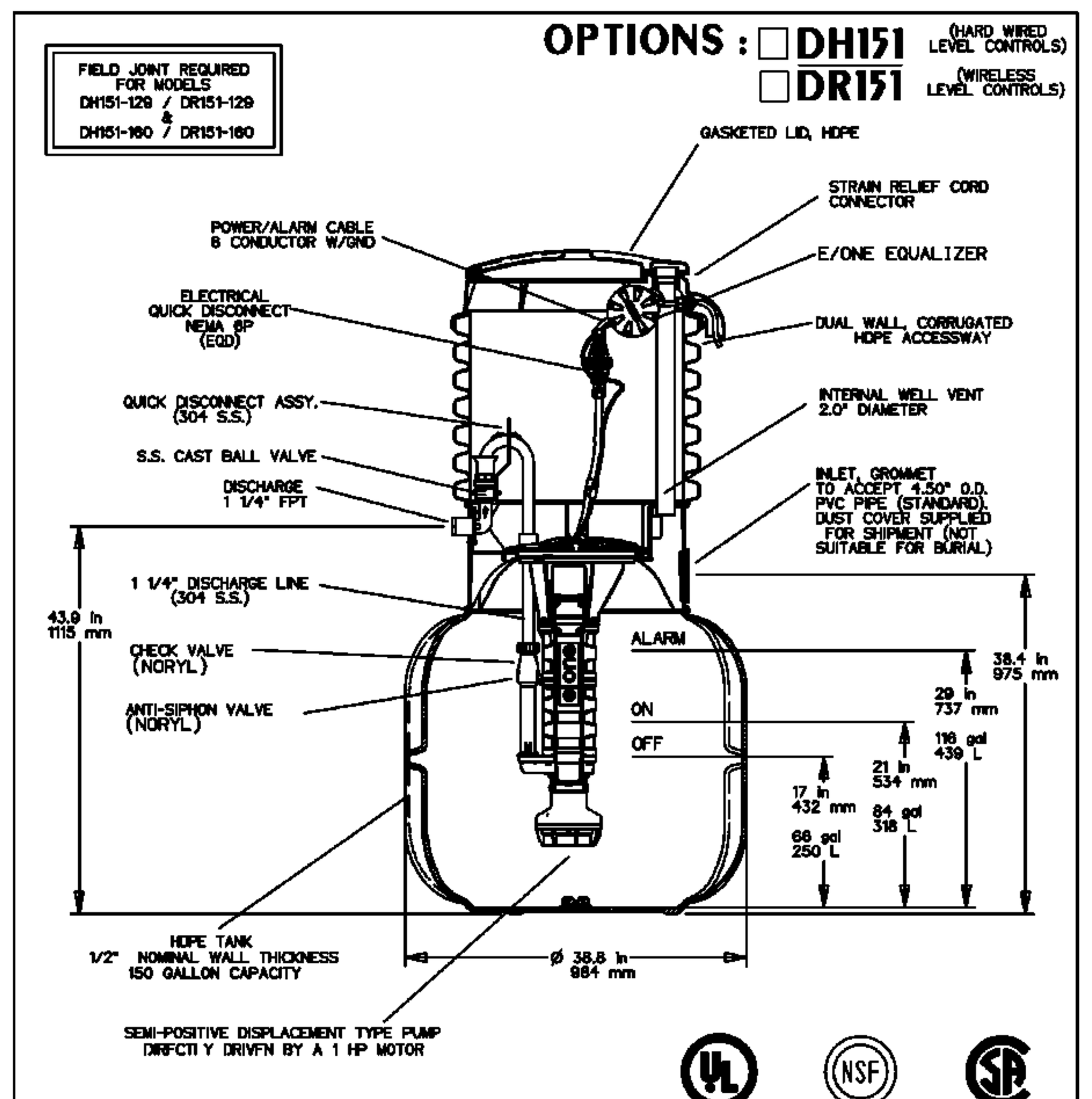


CONCRETE BALLAST MAY BE REQUIRED
SEE INSTALLATION INSTRUCTIONS
FOR DETAILS

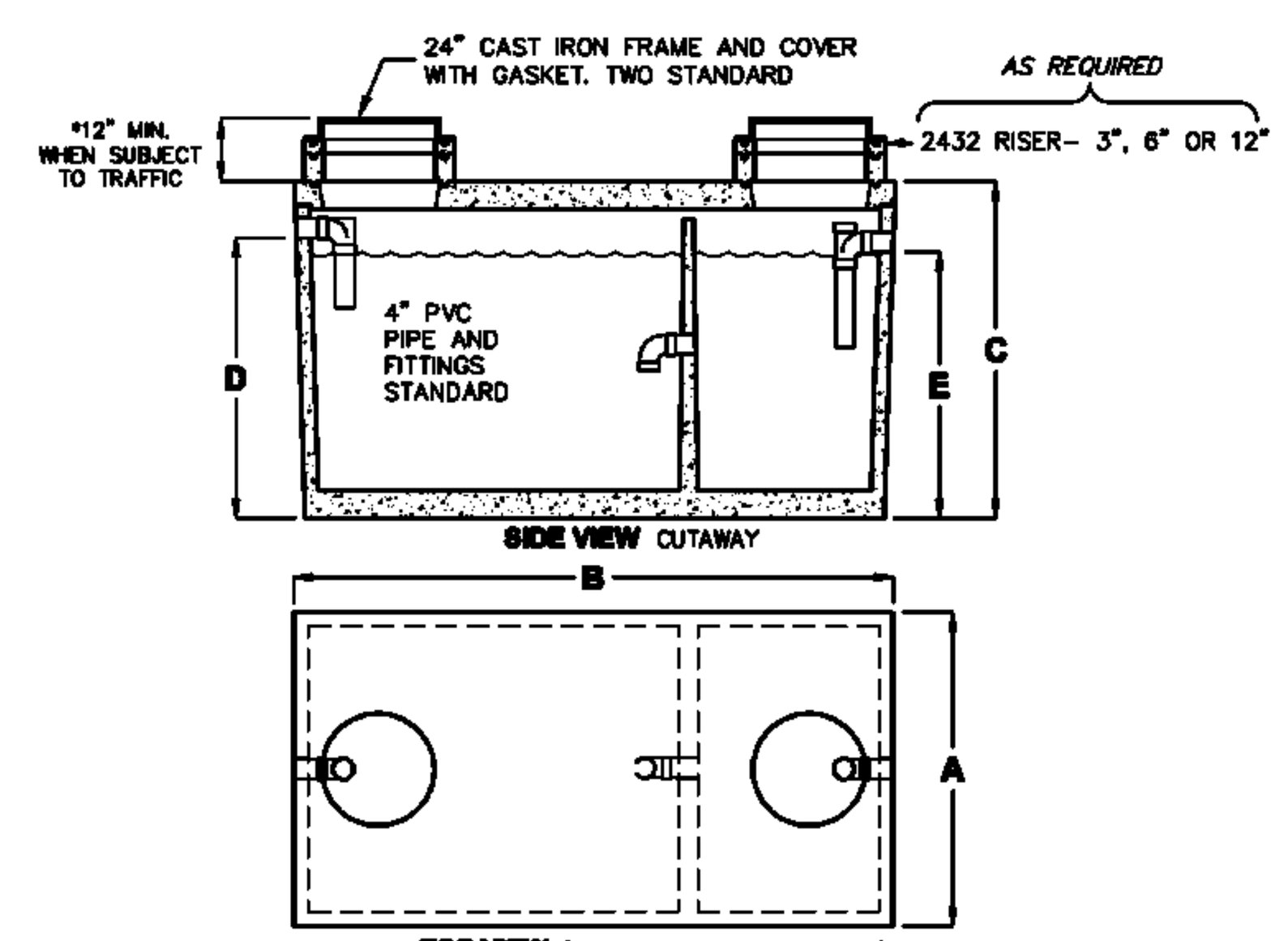
NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

AD	CH	10/20/10	D	
DR BY	CHK'D	DATE	ISSUE	SCALE

e|one SEWER SYSTEMS
MODEL DH151 / DR151
DETAIL SHEET
NA0051P02

JP750 - JP1500 GALLON COMMERICAL SEPTIC TANKS

TRAFFIC RATED - ACCEPTED BY UPC®



MODEL NUMBER	LIQUID CAPACITY GALLONS	WIDTH 'A'	OVERALL LENGTH 'B'	TANK HEIGHT 'C'	INLET 'D'	OUTLET 'E'	MINIMUM EXCAVATION WIDTH	MINIMUM EXCAVATION LENGTH	* DEPTH OF BURY	TANK WEIGHT LBS.
JP750	750	4'-0"	8'-1"	6'-0"	5'-0"	4'-9"	5'-0"	9'-1"	6' MAX.	9,000
JP1000	1000	5'-1"	8'-2"	6'-0"	5'-0"	4'-9"	6'-1"	9'-2"	6' MAX.	11,000
JP1200	1200	5'-9"	8'-6"	6'-0"	5'-0"	4'-9"	6'-9"	9'-6"	6' MAX.	12,600
JP1500	1500	5'-7"	10'-8"	6'-0"	5'-0"	4'-9"	6'-7"	11'-8"	6' MAX.	14,900

- TANK DESIGNED FOR H-20 TRAFFIC WHEEL LOAD WITH DRY SOIL CONDITIONS – (WATER TABLE BELOW TANK.)
- EXTERIOR AND INTERIOR CONCRETE SURFACES TO BE COATED WITH AN APPROVED BITUMINOUS MATERIAL.
- SUITABLE NATIVE OR SUB-BASE SHALL BE PREPARED TO HANDLE ANTICIPATED LOADS. THE EXCAVATION SHALL BE BEDDED WITH SUITABLE GRANULAR MATERIAL AND SHALL BE COMPACTED TO 90% MAXIMUM DRY DENSITY, OR TO REQUIREMENTS OF THE PROJECT GEOTECHNICAL ENGINEER.
- FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

THE DESIGN AND DETAIL OF THIS DRAWING ARE THE PROPERTY OF JENSEN PRECAST AND NOT TO BE USED EXCEPT IN CONNECTION WITH ITS OWN WORK. DESIGN AND INVENTION RIGHTS ARE RESERVED.

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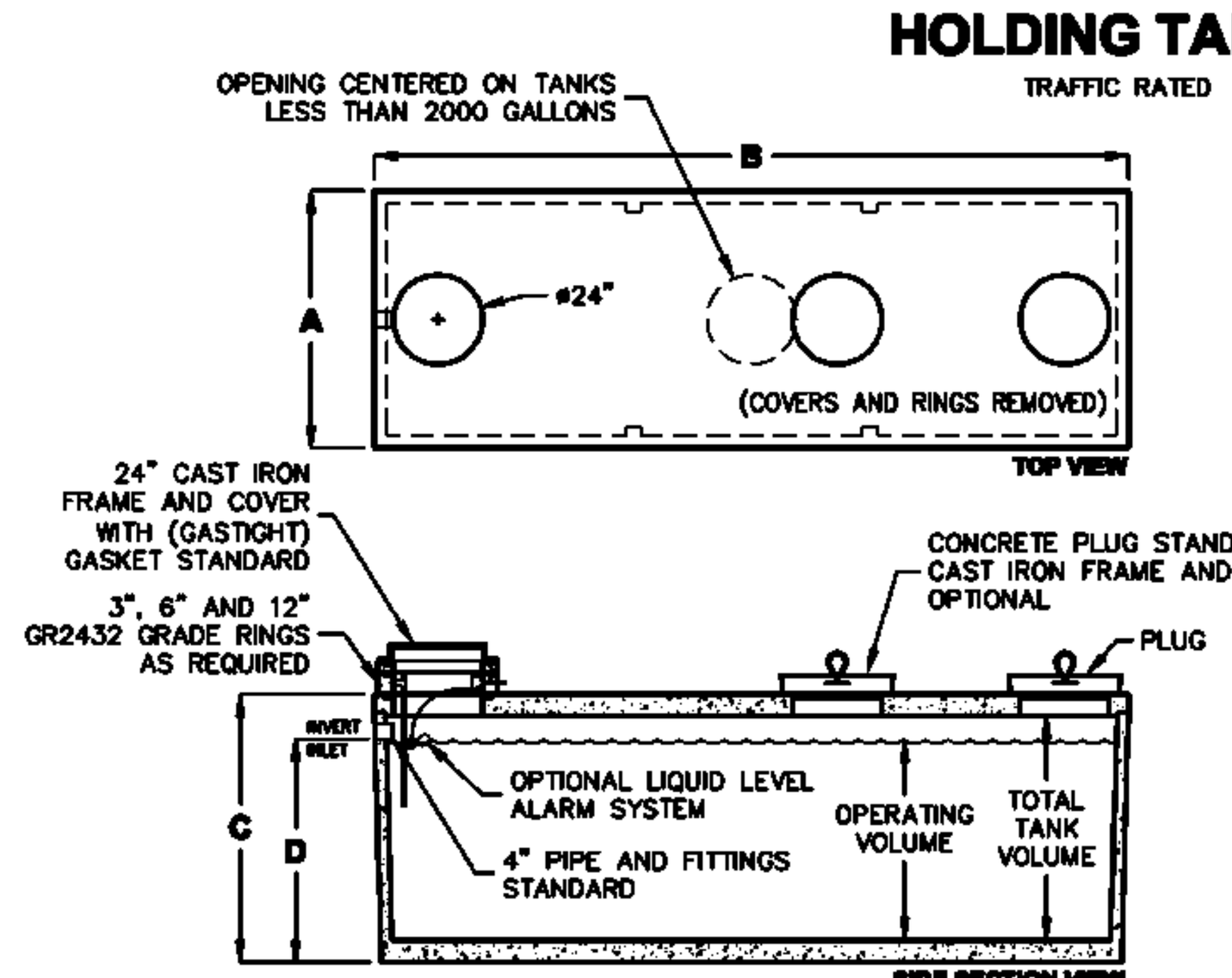
JENSEN PRECAST

750-5000 GALLON HOLDING TANKS

TRAFFIC RATED



MODEL NUMBER	OPERATING VOLUME (GALLONS)	TOTAL VOLUME (GALLONS)	DIM A	DIM B	DIM C	DIM D	MINIMUM EXCAVATION WIDTH	MINIMUM EXCAVATION LENGTH	DEPTH OF BURY
HP750–EPP	750	924	4'–3"	8'–1"	6'–3"	5'–0"	5'–3"	9'–1"	1' TO 6'
HP1000–EPP	1000	1240	5'–4"	8'–2"	6'–3"	5'–0"	6'–4"	9'–2"	1' TO 6'
HP1200–EPP	1200	1485	6'–0"	8'–6"	6'–6"	5'–0"	7'–0"	9'–6"	1' TO 6'
HP1500–EPP	1500	1870	5'–10"	10'–8"	6'–3"	5'–0"	6'–10"	11'–8"	1' TO 6'
HP2000–EPP	2000	2424	4'–11"	15'–11"	6'–0"	5'–0"	5'–11"	16'–11"	1' TO 6'
HZ2500–EPP	2500	3066	5'–9"	16'–10"	6'–0"	5'–0"	6'–9"	17'–10"	1' TO 5'
HZ3000–EPP	3000	3526	5'–9"	16'–10"	6'–9"	5'–9"	6'–9"	17'–10"	1' TO 5'
HZ4000–EPP	4000	4851	7'–8"	16'–7"	6'–9"	5'–6"	8'–8"	17'–7"	1' TO 5'
HZ5000–EPP	5000	5750	7'–8"	16'–7"	7'–11"	6'–9"	8'–8"	17'–7"	1' TO 4'

NOT RECOMMENDED FOR POTABLE WATER OR ABOVE GROUND USE.

DESIGN LOAD: H–20 TRAFFIC WITH DRY SOIL CONDITIONS (WATER LEVEL BELOW TANK.)

SUITABLE SUB–BASE BEDDED WITH GRANULAR MATERIAL SHALL BE PREPARED TO HANDLE ANTICIPATED LOADS.

FOR COMPLETE DESIGN AND PRODUCT INFORMATION CONTACT JENSEN PRECAST.

2/1/08
HP750–HZ5000_TRF_NOCAL_A.dwg
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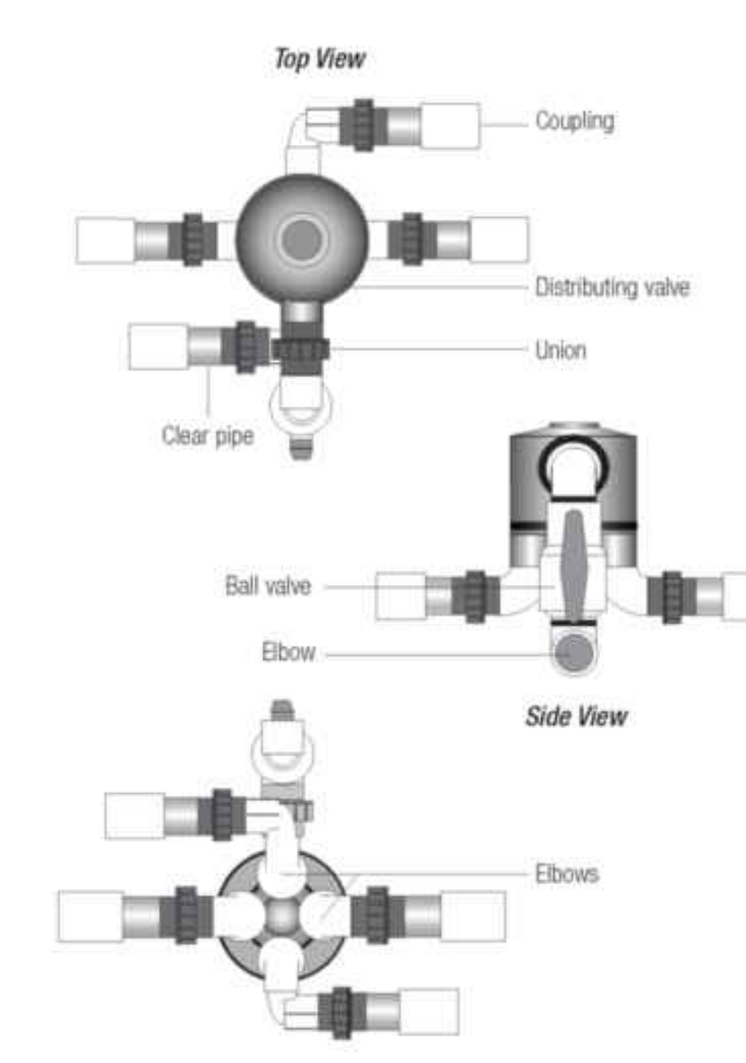
JENSEN PRECAST

Orenco Systems — Technical Data Sheet

Distributing Valves

Applications

Automatic Distributing Valve Assemblies are used to pressurize multiple zone distribution systems including textile filters, sand filters and drainfields.



General

Orenco's Automatic Distributing Valve Assemblies are mechanically operated and sequentially redirect the pump's flow to multiple zones or cells in a distribution field. Valve actuation is accomplished by a combination of pressure and flow. They allow the use of smaller horsepower pumps on large sand filters and drainfields. For example, a large community drainfield requiring 300 gpm (18.90L/sec) can use a six-line valve assembly to reduce the pump flow rate requirement to only 50 gpm (3.14L/sec).

Orenco only warrants Automatic Distributing Valves when used in conjunction with High-Head Effluent Pumps with Biotube® pump vaults to provide pressure and flow requirements, and to prevent debris from fouling valve operation. An inlet ball valve, a section of clear pipe, and a union for each outlet are provided for a complete assembly that is easy to maintain and monitor. Ideal valve location is at the high point in the system. Refer to Automatic Distributing Valve Assemblies (NTP-VA-1) for more information.

Standard Models

V4402A, V4403A, V4404A, V4605A, V4606A, V6402A, V6403A, V6404A, V6605A, V6606A.

Product Code Diagram

V ☐ ☐ ☐ A

- A — Assembly
- Discharge connections installed: 02 = 2 connections, 03 = 3 connections, 04 = 4 connections, 05 = 5 connections, 06 = 6 connections
- Available discharge connections: 4 = 4 available connections, 6 = 6 available connections
- Inlet/outlet size, in. (mm): 4 = 1.25 (32), 6 = 1.50 (40)
- Distributing valve

Materials of Construction

All Fittings	Sch. 40 PVC per ASTM specification
Unions	Sch. 80 PVC per ASTM specification
Ball Valve	Sch. 40 PVC per ASTM specification
Clear Pipe	Sch. 40 PVC per ASTM specification

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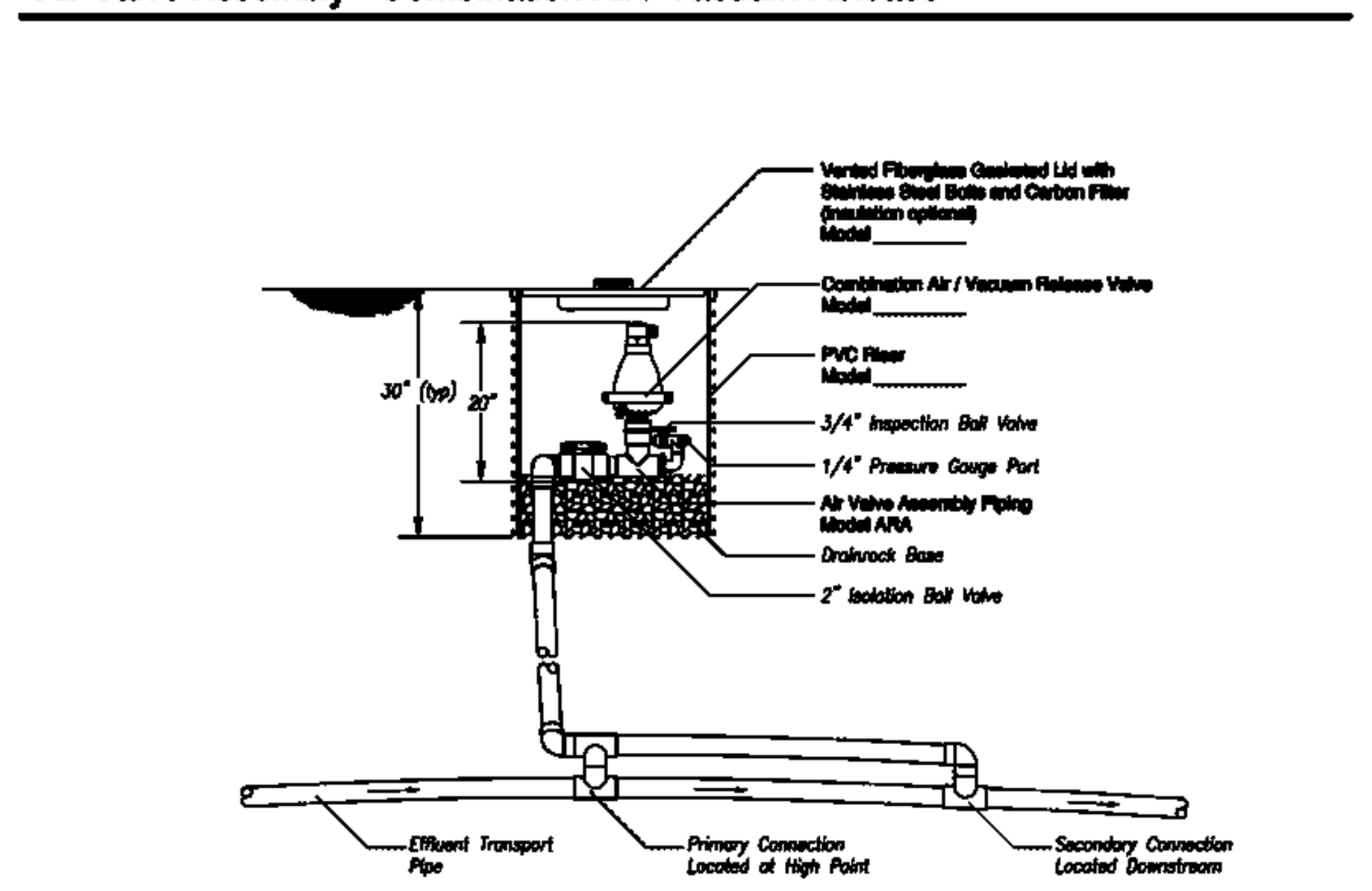
NTD-SF-VA-1 Rev. 2.0, © 03/17 Page 1 of 2

Air Valve Assembly - Combination Air / Vacuum Release



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ELLISON CONSERVATION
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ISSUES AND REVISIONS

DATE	DESCRIPTION
09–06–18	GRADING PERMIT PLAN CHECK 4
12–21–18	PERMIT RESUBMITTAL
03–26–19	PERMIT MODIFICATION PLAN CHECK 1
04–11–19	ASA DELTA 2
04–22–19	BID SET
05–10–19	BID SET ADDENDUM 1
05–22–19	UTILITY PLAN CHECK 1
08–06–19	PHASE 4 – PERMIT SUBMITTAL
09–20–19	CONSTRUCTION SET 1
01–28–20	PERMIT MODIFICATION 2
05–29–20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07–22–20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY
RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
COMPOSITE UTILITY DETAILS

SCALE
1" = 20'

Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
UC-11.23

ASA/USE PERMIT
MODIFICATION #3
PLN-17-6943

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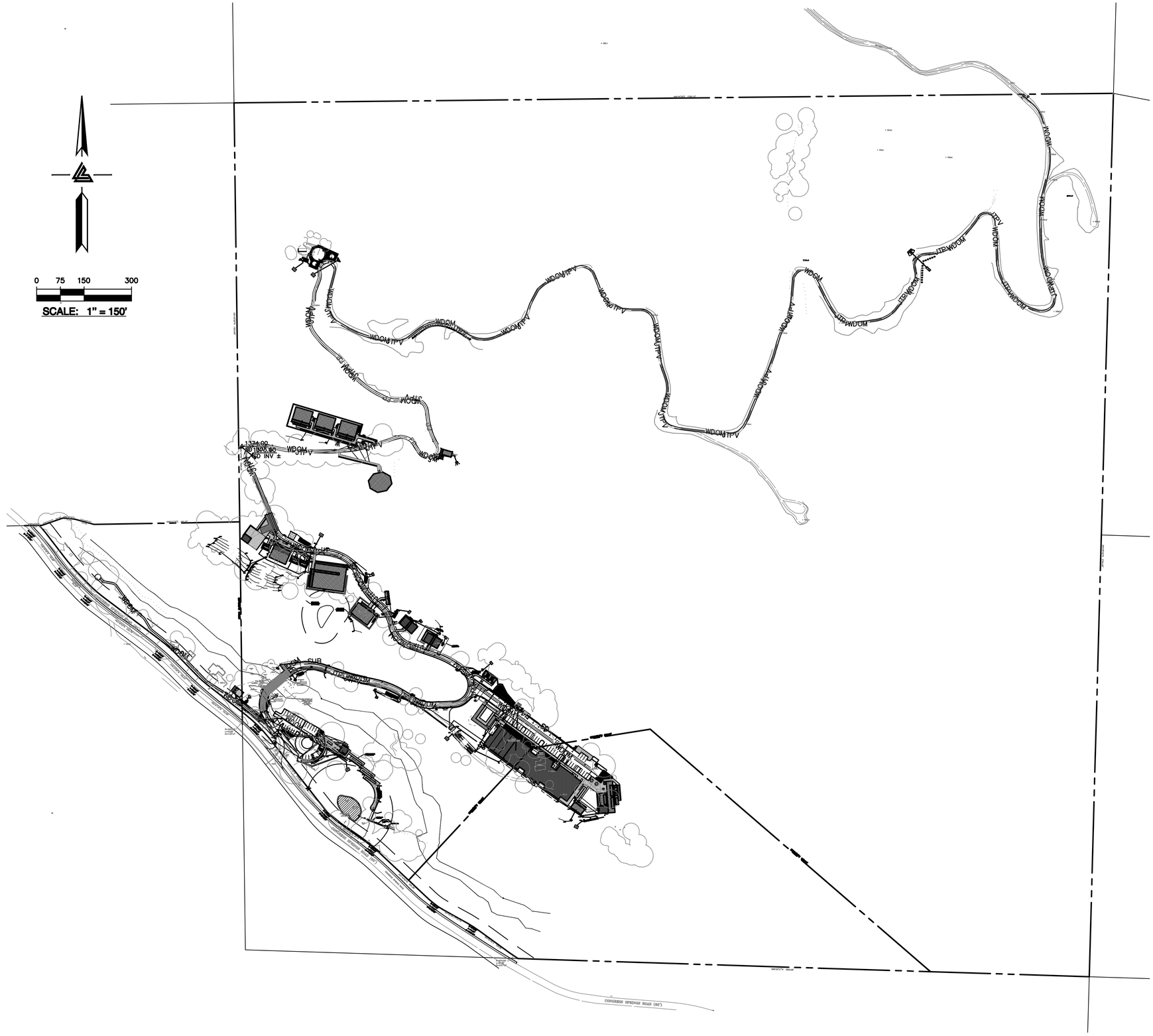

WATER SERVICE KEYNOTES 1 TO 10

1. (N) 8" FIRE PROTECTION LINE. MINIMUM SIZE SHALL BE 8" HPDE (DR-11 OR SIMILAR).
2. 3" HDPE (DR-11 OR SIMILAR) DOMESTIC WATER LINE.
3. 3" HDPE (DR-7.3 OR SIMILAR) DOMESTIC WATER LINE.
4. ALL FIRE HYDRANTS SHALL BE CLOW "WET BARREL" TYPE (MODEL# F75) WITH TWO 2.5" OUTLETS & ONE 4.5" OUTLET. SEE DETAIL W-6 ON SHEET CWD-12.19. BREAKAWAY CHECK VALVES AT HYDRANTS SHALL BE INSTALLED. VALVES SHALL BE LISTED FOR INSTALLATION ON FIRE SERVICE MAIN. INSTALL BOLLARDS 3' MIN FROM FACE OF HYDRANT ALL ORIFICES SHALL BE UNOBSTRUCTED. SEE BOLLARD DETAIL ON SHEET CWD-12.21.
5. PROVIDE THRUST BLOCKS AT INTERSECTIONS AND MAJOR CHANGES IN DIRECTION PER NFPA 24 §10.6 SEE DETAIL W-7 ON SHEET CWD-12.19.
6. INSTALL (N) FEBCO LF860 BACK FLOW PREVENTION DEVICE FOR 2" DOMESTIC WATER SERVICE OR APPROVED EQUAL.
7. 3" OR SMALLER IRRIGATION LINE. SEE LANDSCAPE ARCHITECT PLANS FOR DESIGN DETAILS.
8. INSTALL INTEGRIFUSE POLY BALL VALVE AT 200' INTERVALS ALONG THE DOMESTIC AND RAW WATER LINES.
9. NOT USED
10. 3/4" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.

NOTE:
FIRE WATER LINES ARE NOT APPROVED UNDER UTILITY PERMIT. A SEPARATE DEFERRED SUBMITTAL IS REQUIRED FOR INSTALLATION.

LEGEND

F1	FIRE ALARM POWER CONDUIT
FP	FIRE PROTECTION LINES
WDOM	WATER DOMESTIC LINE
IR	IRRIGATION LINE BY OTHERS
	FIRE HYDRANT
SOV	SHUT-OFF VALVE
WV	WATER VALVE
	THRUST BLOCK
	BACK FLOW PREVENTOR
PRV	PRESSURE REDUCER VALVE

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER PETER CARLINO No. C79555 CIVIL STATE OF CALIFORNIA ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
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ISSUES AND REVISIONS

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01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE
1" = 150'

Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.0

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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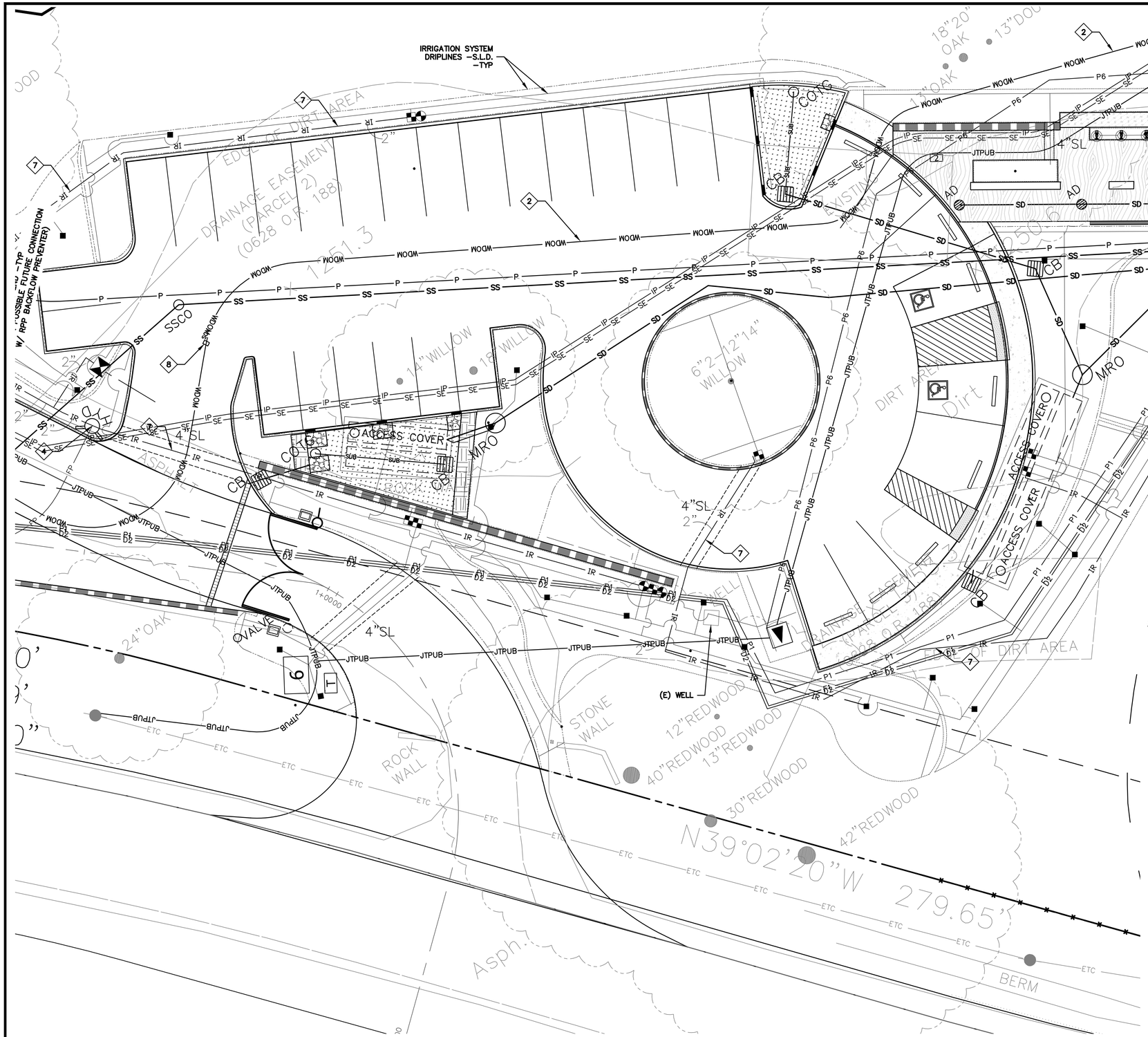

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NOTE:
FIRE WATER LINES ARE NOT APPROVED UNDER UTILITY PERMIT. A SEPARATE DEFERRED SUBMITTAL IS REQUIRED FOR INSTALLATION.

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — PETER CARLISLE — No. C79535 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

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SANTA CLARA COUNTY RECORD INFORMATION
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SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD–12.1

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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PLOT: 2/16/2021 3:15:02 PM

LEGEND

F1	FIRE ALARM POWER CONDUIT
FP	FIRE PROTECTION LINES
WDOM	WATER DOMESTIC LINE
IR	IRRIGATION LINE BY OTHERS
	FIRE HYDRANT
SOV	SHUT-OFF VALVE
WV	WATER VALVE
	THRUST BLOCK
	BACK FLOW PREVENTOR
PRV	PRESSURE REDUCER VALVE

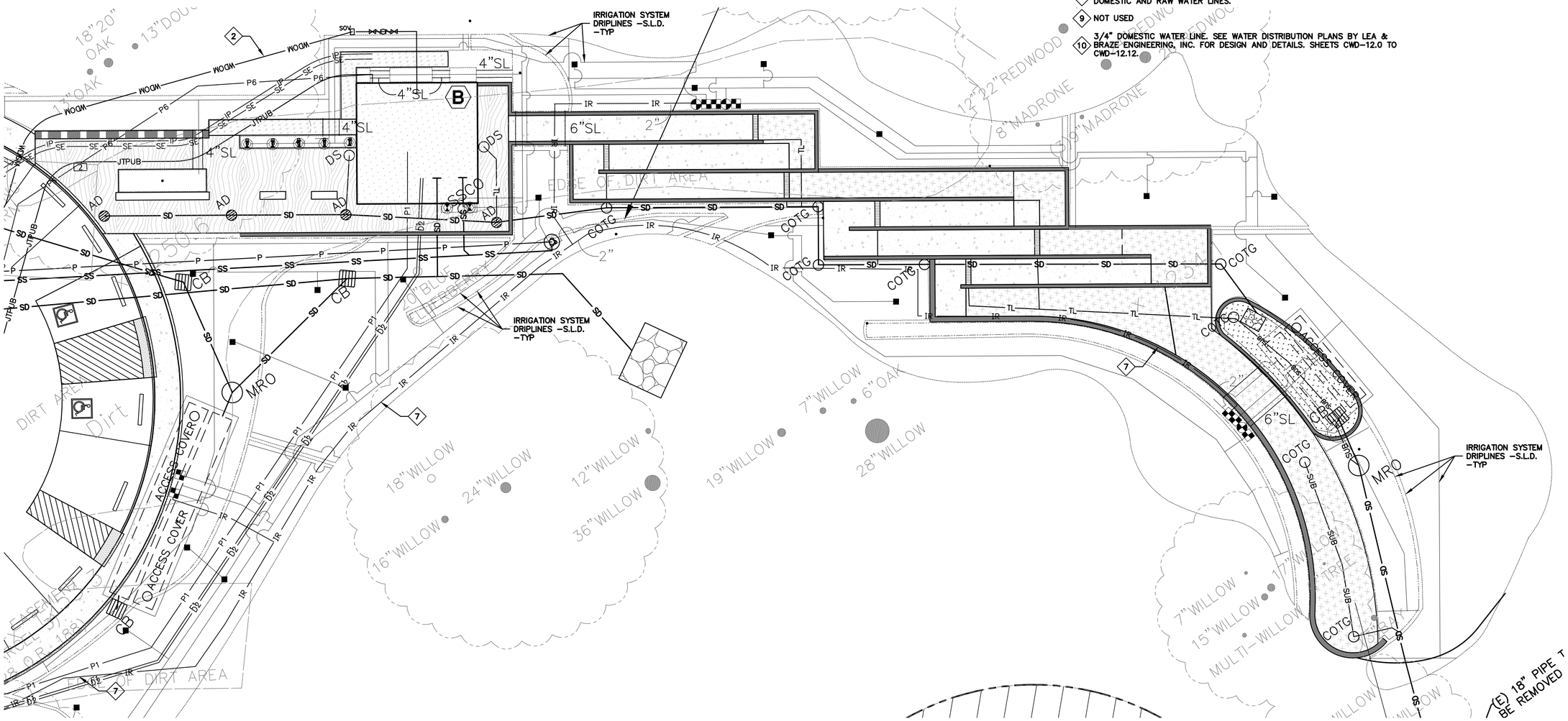
NOTE:
FIRE WATER LINES ARE NOT APPROVED UNDER UTILITY PERMIT. A SEPARATE DEFERRED SUBMITTAL IS REQUIRED FOR INSTALLATION.

WATER SERVICE KEYNOTES 1 TO 10

1. (N) 8" FIRE PROTECTION LINE. MINIMUM SIZE SHALL BE 8" HPDE (DR-11 OR SIMILAR).
2. 3" HDPE (DR-11 OR SIMILAR) DOMESTIC WATER LINE.
3. 3" HDPE (DR-7.3 OR SIMILAR) DOMESTIC WATER LINE.
4. ALL FIRE HYDRANTS SHALL BE CLOW "WET BARREL" TYPE (MODEL# F75) WITH TWO 2.5" OUTLETS & ONE 4.5" OUTLET. SEE DETAIL W-6 ON SHEET CWD-12.19. BREAKAWAY CHECK VALVES AT HYDRANTS SHALL BE INSTALLED. VALVES SHALL BE LISTED FOR INSTALLATION ON FIRE SERVICE MAIN. INSTALL BOLLARDS 3' MIN FROM FACE OF HYDRANT ALL ORIFICES SHALL BE UNOBSTRUCTED. SEE BOLLARD DETAIL ON SHEET CWD-12.21.
5. PROVIDE THRUST BLOCKS AT INTERSECTIONS AND MAJOR CHANGES IN DIRECTION PER NFPA 24 §10.6 SEE DETAIL W-7 ON SHEET CWD-12.19.
6. INSTALL (N) FEBCO LF860 BACK FLOW PREVENTION DEVICE FOR 2" DOMESTIC WATER SERVICE OR APPROVED EQUAL.
7. 3" OR SMALLER IRRIGATION LINE. SEE LANDSCAPE ARCHITECT PLANS FOR DESIGN DETAILS.
8. INSTALL INTEGRIFUSE POLY BALL VALVE AT 200' INTERVALS ALONG THE DOMESTIC AND RAW WATER LINES.
9. NOT USED
10. 3/4" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.

0 5 10 20

SCALE: 1" = 10'



ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER
PETER CARLSON
No. C79333
CIVIL
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

LEA & BRAZE ENGINEERING, INC.
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ROSEVILLE, CA 95661
(P) (916)966-1338
(F) (916)797-7363
WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
09-06-18	GRADING PERMIT PLAN CHECK 4
12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
05-10-19	BID SET ADDENDUM 1
05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 – PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.2

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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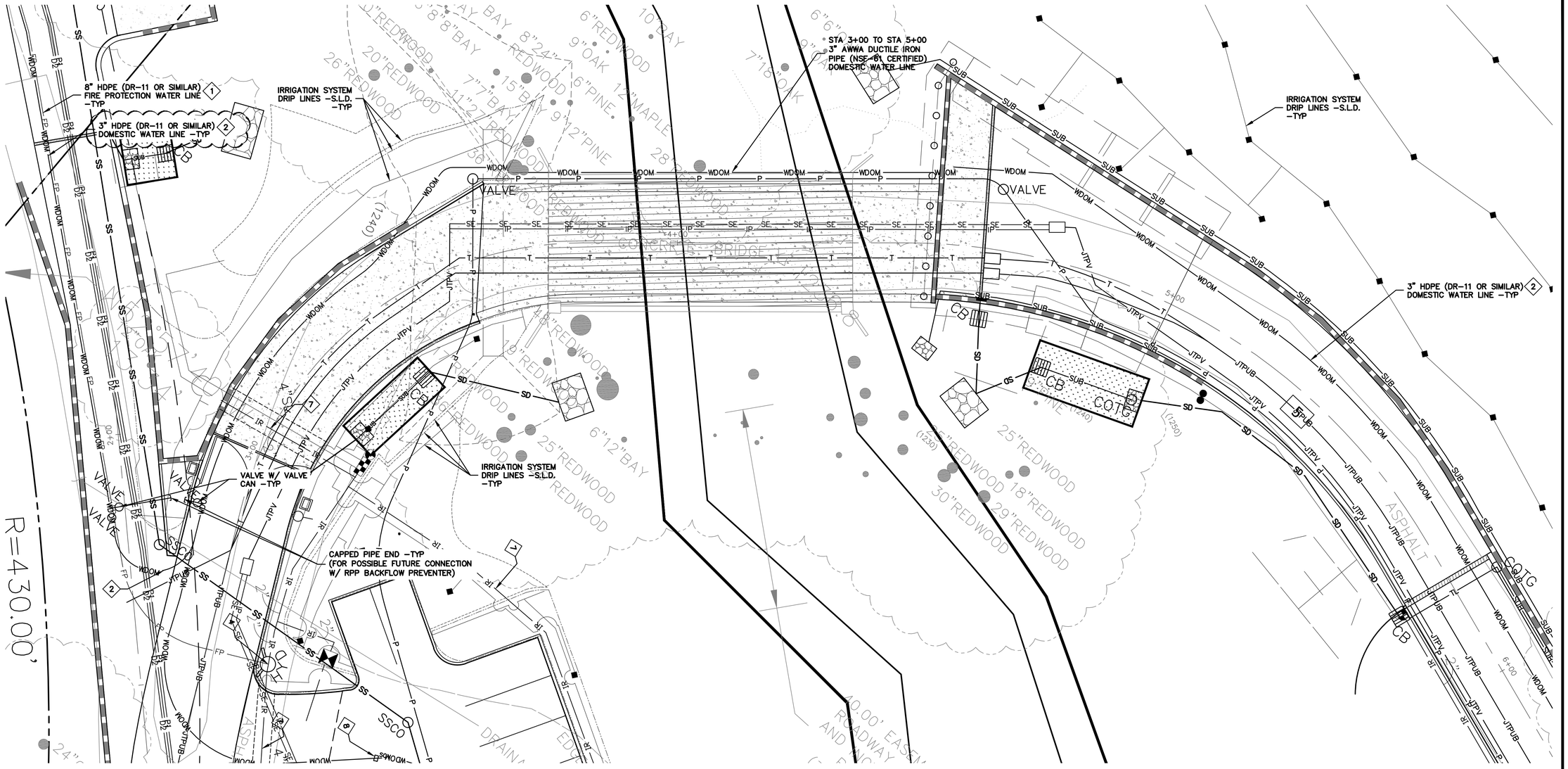

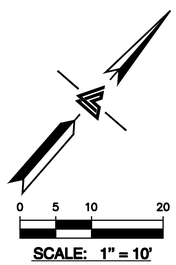

LEGEND

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FP	FIRE PROTECTION LINES
WDOM	WATER DOMESTIC LINE
IR	IRRIGATION LINE BY OTHERS
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ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — PETER CARLISLE — No. C79555 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

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SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

	SCALE
	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.3

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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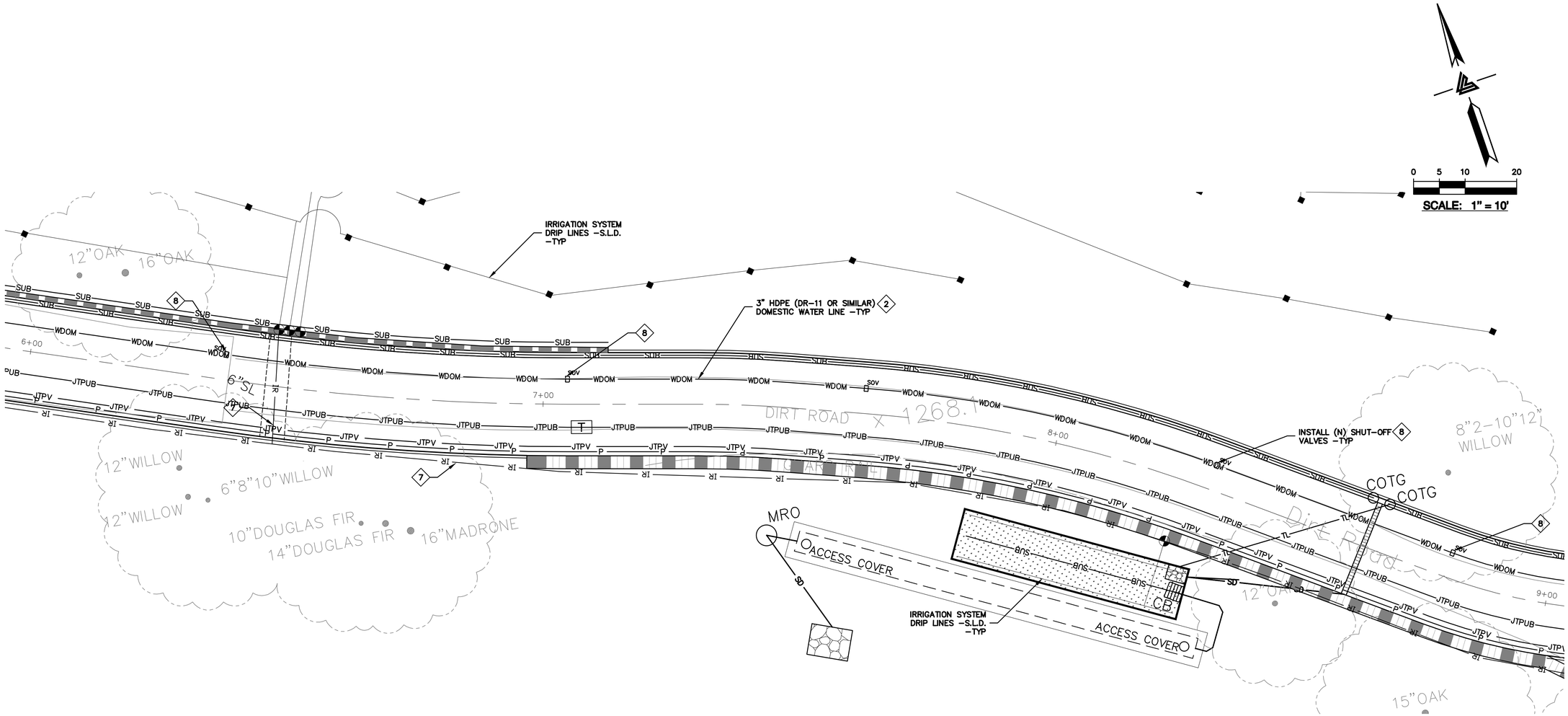

LEGEND

F1	FIRE ALARM POWER CONDUIT
FP	FIRE PROTECTION LINES
WDOM	WATER DOMESTIC LINE
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ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — JEFFREY CARL LEA — No. C79555 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

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SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
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UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE
1" = 10'

Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD–12.4

ASA/USE PERMIT MODIFICATION #3
PLN–17–6943

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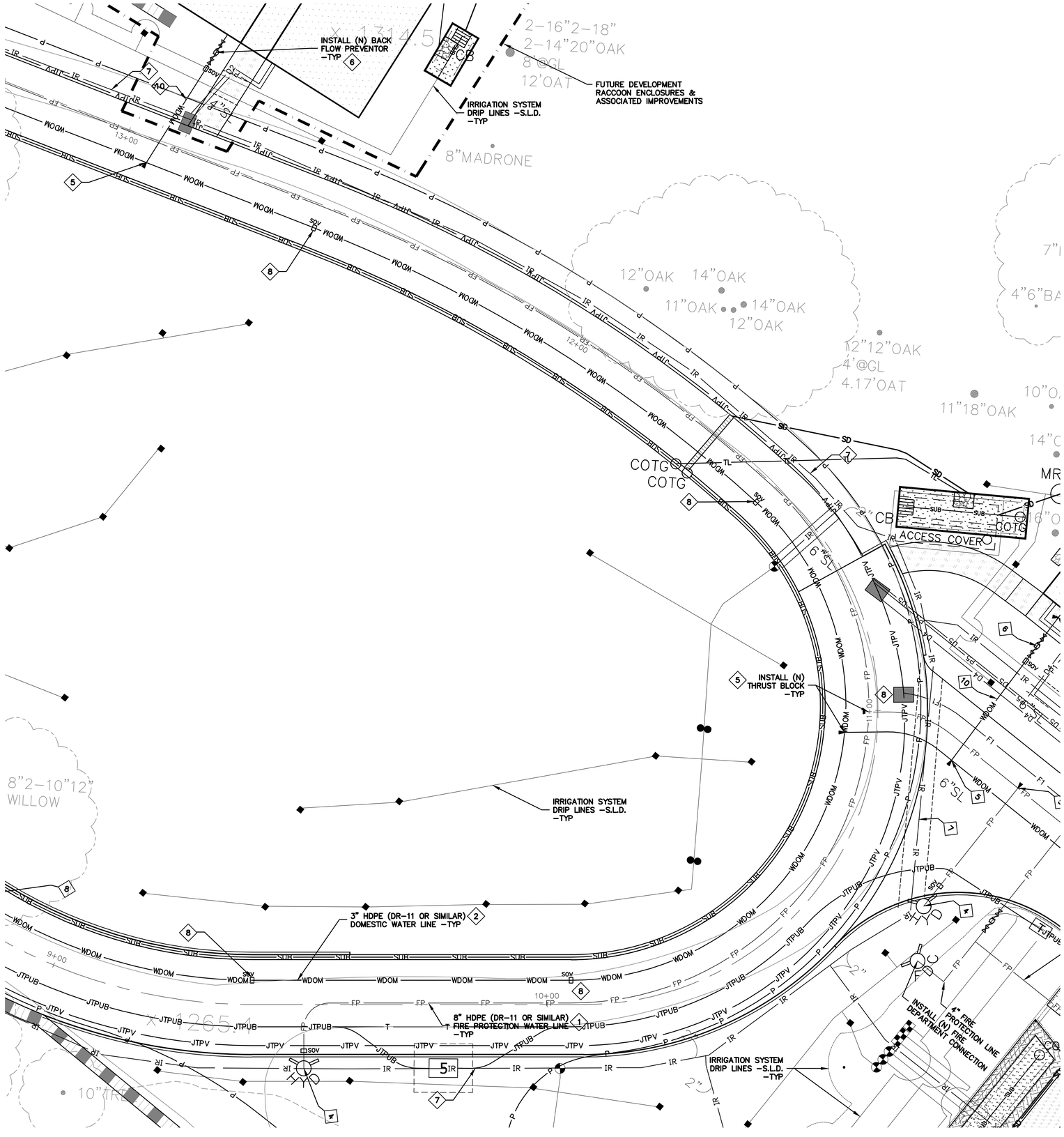
INSTALL (N) BACK FLOW PREVENTOR –TYP
6
IRRIGATION SYSTEM DRIP LINES –S.L.D. –TYP
FUTURE DEVELOPMENT RACCOON ENCLOSURES & ASSOCIATED IMPROVEMENTS
2–16"2–18"
2–14"20"OAK
8'@GL
12'OAT
8"MADRONE
12"OAK 14"OAK
11"OAK 14"OAK
12"OAK
12"12"OAK
4'@GL
4.17'OAT
11"18"OAK
7"I
4"6"BA
10"O
14"C
MR
COTG
COTG
ACCESS COVER
SUB
SUB
COTG
2" CB
INSTALL (N) THRUST BLOCK –TYP
8"2–10"12" WILLOW
IRRIGATION SYSTEM DRIP LINES –S.L.D. –TYP
3" HDPE (DR–11 OR SIMILAR) DOMESTIC WATER LINE –TYP
2
8" HDPE (DR–11 OR SIMILAR) FIRE PROTECTION WATER LINE –TYP
1
IRRIGATION SYSTEM DRIP LINES –S.L.D. –TYP
INSTALL (N) DEPARTMENT FIRE CONNECTION
4" FIRE PROTECTION LINE
6"SL
4"SL
13+00
12+00
9+00
10+00
WDOM
SUB
FP
IR
JTPUB
JTPV
SD
SOV
F1
TL
JUTPV
DS
D4
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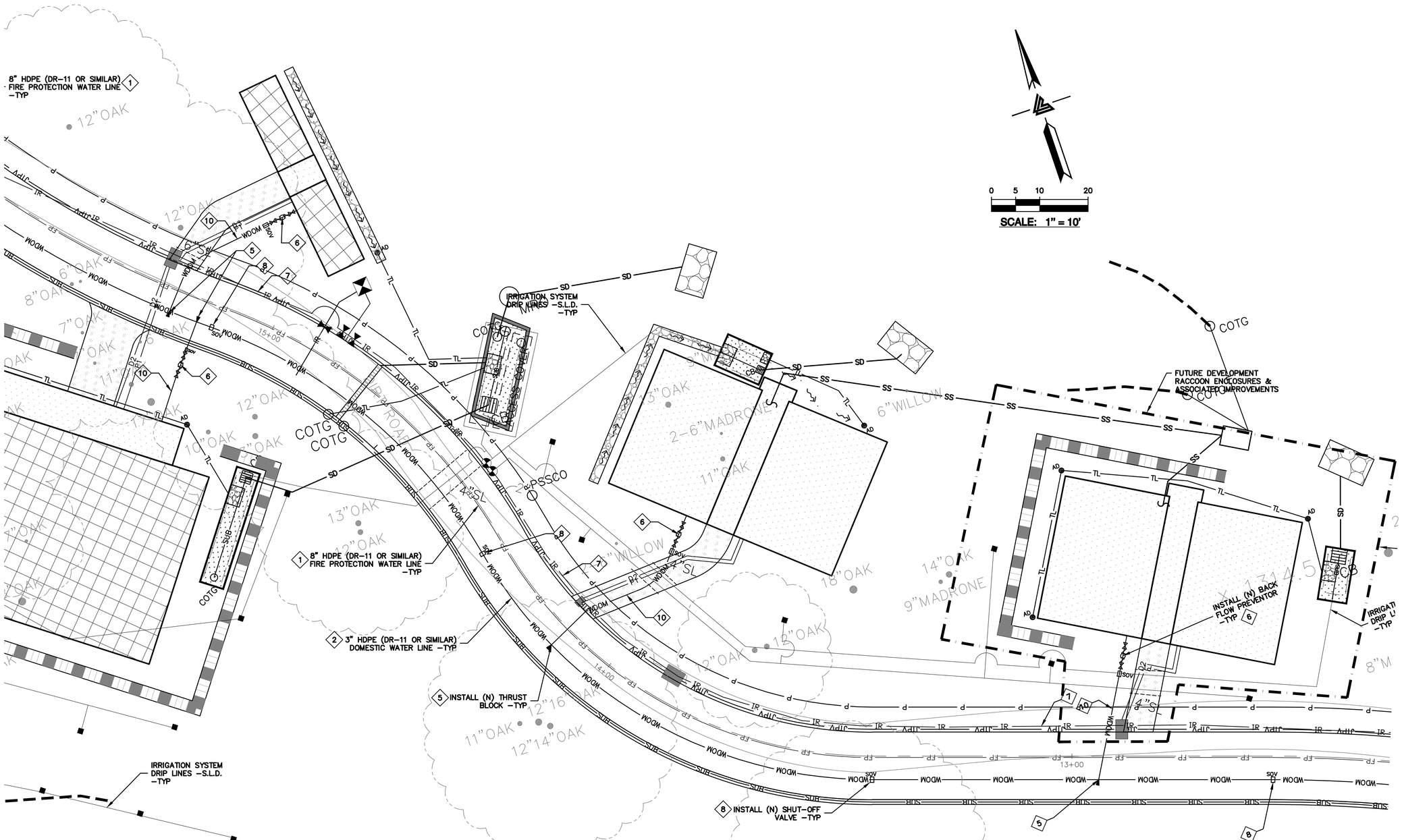
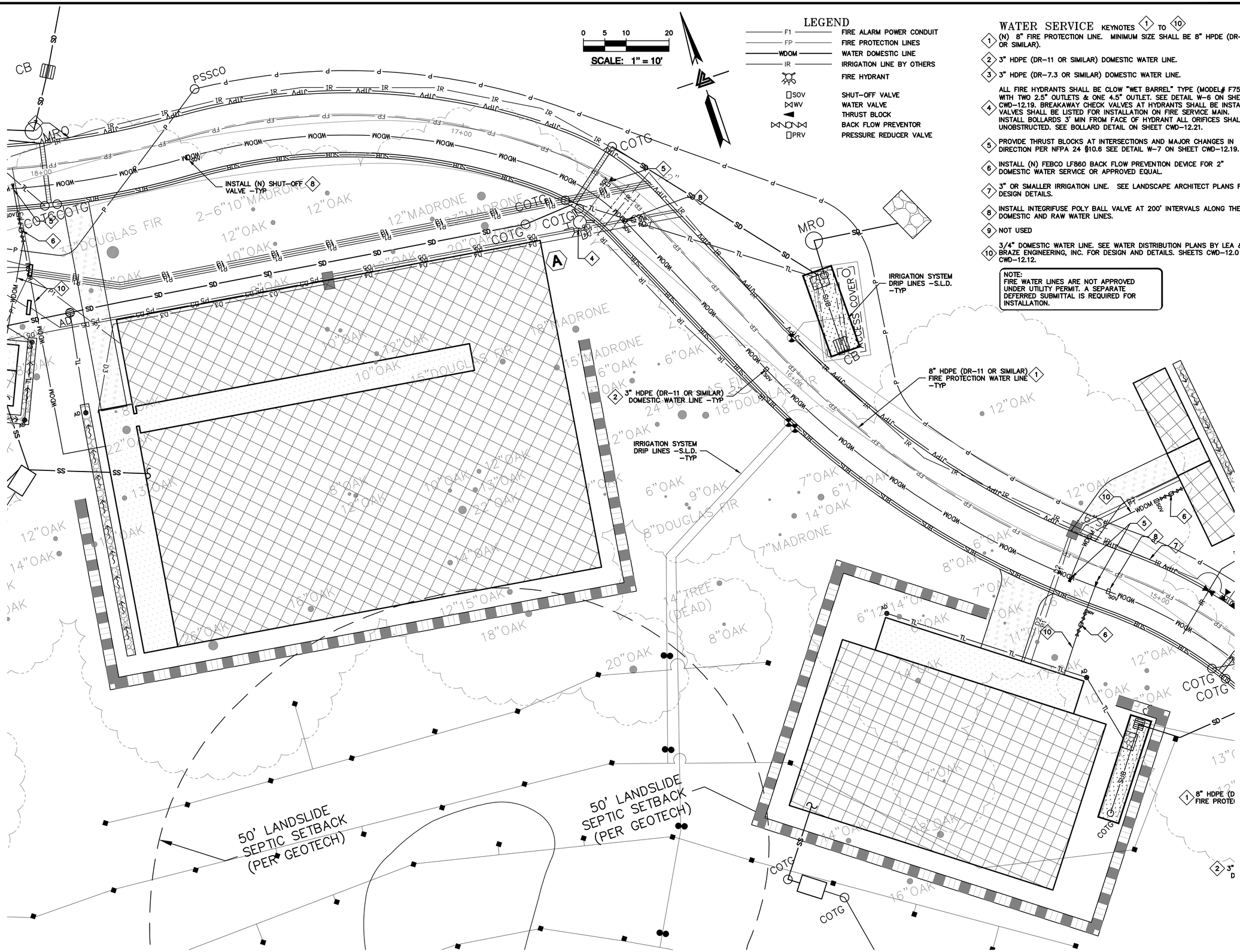

8" HDPE (DR-11 OR SIMILAR) FIRE PROTECTION WATER LINE -TYP
1
IRRIGATION SYSTEM DRIP LINES -S.L.D. -TYP
1 8" HDPE (DR-11 OR SIMILAR) FIRE PROTECTION WATER LINE -TYP
2 3" HDPE (DR-11 OR SIMILAR) DOMESTIC WATER LINE -TYP
5 INSTALL (N) THRUST BLOCK -TYP
8 INSTALL (N) SHUT-OFF VALVE -TYP
IRRIGATION SYSTEM DRIP LINES -S.L.D. -TYP
FUTURE DEVELOPMENT RACCOON ENCLOSURES & ASSOCIATED IMPROVEMENTS
INSTALL (N) BACK FLOW PREVENTOR -TYP 6
IRRIGATI DRIP LI -TYP
COTG
COTG
COTG


0 5 10 20
SCALE: 1" = 10'
LEGEND
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WDOM WATER DOMESTIC LINE
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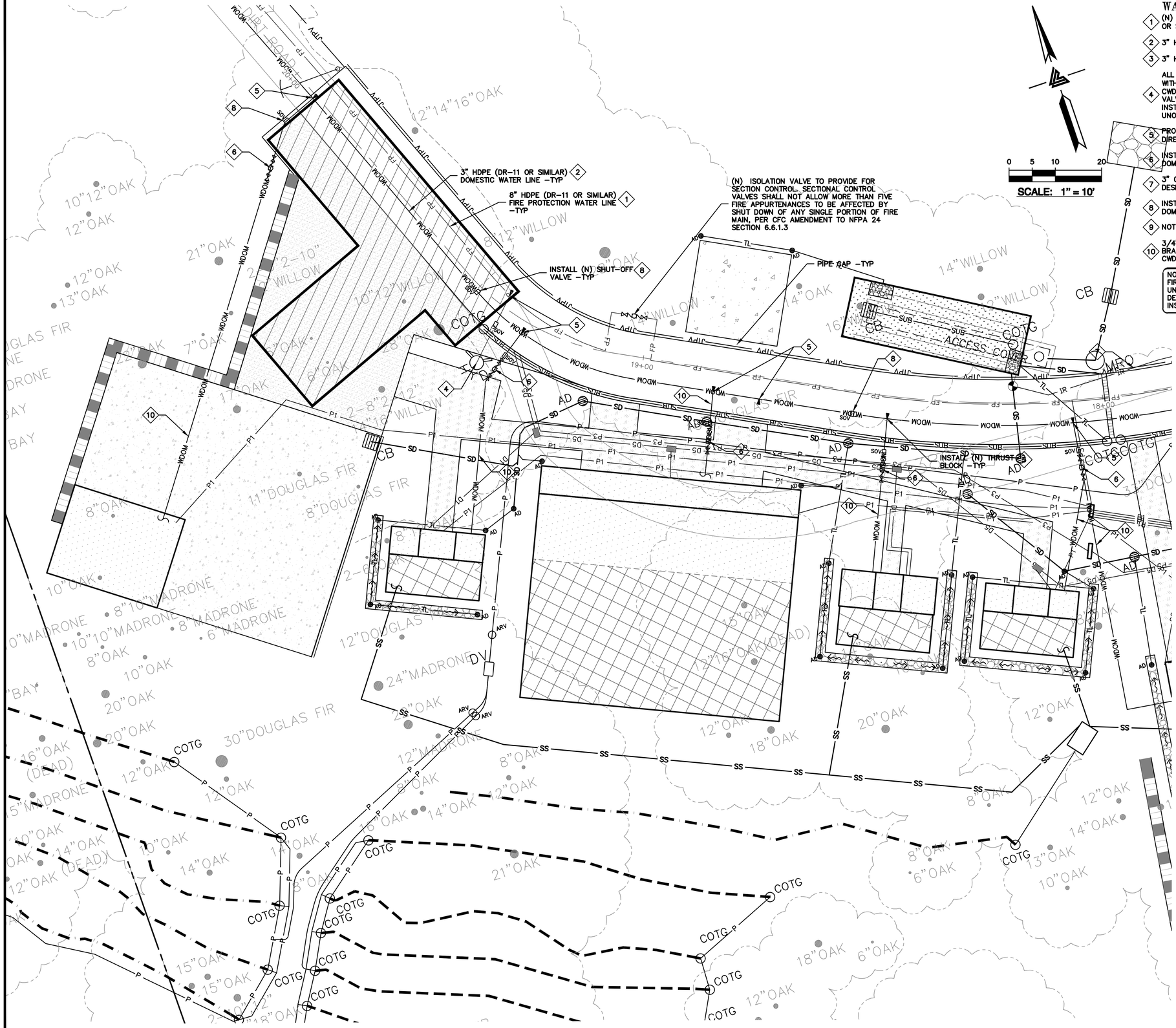
INSTALL (N) SHUT-OFF VALVE -TYP
IRRIGATION SYSTEM DRIP LINES -S.L.D. -TYP
3" HDPE (DR-11 OR SIMILAR) DOMESTIC WATER LINE -TYP
8" HDPE (DR-11 OR SIMILAR) FIRE PROTECTION WATER LINE -TYP
50' LANDSLIDE SEPTIC SETBACK (PER GEOTECH)
50' LANDSLIDE SEPTIC SETBACK (PER GEOTECH)
CB
PSSCO
MRO
COTG
COTG
COTG



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LEGEND

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SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — PETER CARLTON — No. C79535 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

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KORTH SUNSERI HAGEY

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SANTA CLARA COUNTY RECORD INFORMATION
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SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.8

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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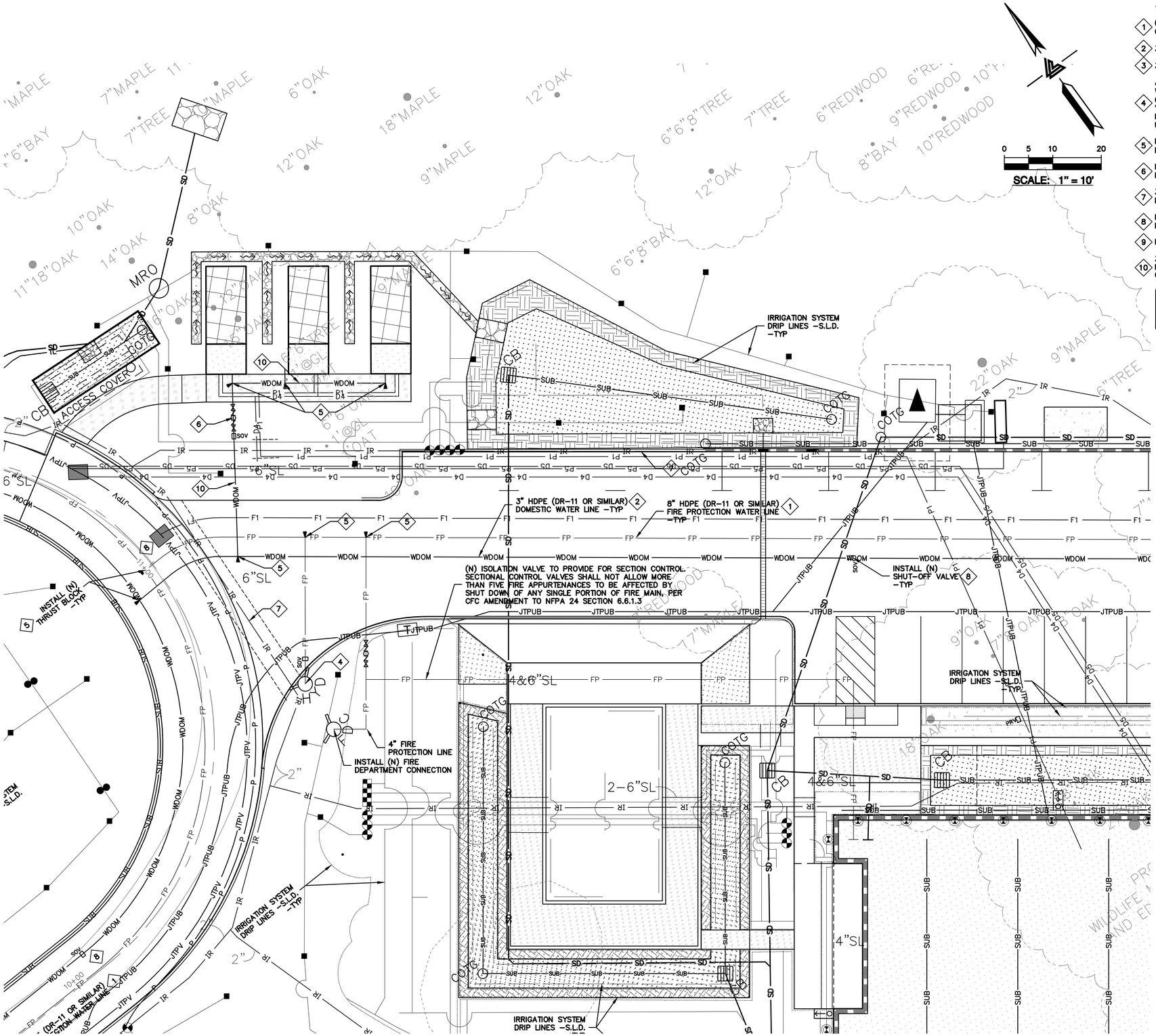

WATER SERVICE KEYNOTES 1 TO 10

1. (N) 8" FIRE PROTECTION LINE. MINIMUM SIZE SHALL BE 8" HPDE (DR–11 OR SIMILAR).
2. 3" HDPE (DR–11 OR SIMILAR) DOMESTIC WATER LINE.
3. 3" HDPE (DR–7.3 OR SIMILAR) DOMESTIC WATER LINE.
4. ALL FIRE HYDRANTS SHALL BE CLOW "WET BARREL" TYPE (MODEL# F75) WITH TWO 2.5" OUTLETS & ONE 4.5" OUTLET. SEE DETAIL W–6 ON SHEET CWD–12.19. BREAKAWAY CHECK VALVES AT HYDRANTS SHALL BE INSTALLED. VALVES SHALL BE LISTED FOR INSTALLATION ON FIRE SERVICE MAIN. INSTALL BOLLARDS 3' MIN FROM FACE OF HYDRANT ALL ORIFICES SHALL BE UNOBSTRUCTED. SEE BOLLARD DETAIL ON SHEET CWD–12.21.
5. PROVIDE THRUST BLOCKS AT INTERSECTIONS AND MAJOR CHANGES IN DIRECTION PER NFPA 24 §10.6 SEE DETAIL W–7 ON SHEET CWD–12.19.
6. INSTALL (N) FEBCO LF860 BACK FLOW PREVENTION DEVICE FOR 2" DOMESTIC WATER SERVICE OR APPROVED EQUAL.
7. 3" OR SMALLER IRRIGATION LINE. SEE LANDSCAPE ARCHITECT PLANS FOR DESIGN DETAILS.
8. INSTALL INTEGRIFUSE POLY BALL VALVE AT 200' INTERVALS ALONG THE DOMESTIC AND RAW WATER LINES.
9. NOT USED
10. 3/4" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD–12.0 TO CWD–12.12.

NOTE:
FIRE WATER LINES ARE NOT APPROVED UNDER UTILITY PERMIT. A SEPARATE DEFERRED SUBMITTAL IS REQUIRED FOR INSTALLATION.

LEGEND

F1	FIRE ALARM POWER CONDUIT
FP	FIRE PROTECTION LINES
WDOM	WATER DOMESTIC LINE
IR	IRRIGATION LINE BY OTHERS
	FIRE HYDRANT
SOV	SHUT–OFF VALVE
WV	WATER VALVE
	THRUST BLOCK
	BACK FLOW PREVENTOR
PRV	PRESSURE REDUCER VALVE

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — JENNIFER CARLSON — No. C79333 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

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WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
09–06–18	GRADING PERMIT PLAN CHECK 4
12–21–18	PERMIT RESUBMITTAL
03–26–19	PERMIT MODIFICATION PLAN CHECK 1
04–11–19	ASA DELTA 2
04–22–19	BID SET
05–10–19	BID SET ADDENDUM 1
05–22–19	UTILITY PLAN CHECK 1
08–06–19	PHASE 4 – PERMIT SUBMITTAL
09–20–19	CONSTRUCTION SET 1
01–28–20	PERMIT MODIFICATION 2
05–29–20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07–22–20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE
1" = 10'

Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD–12.9

ASA/USE PERMIT MODIFICATION #3
PLN–17–6943

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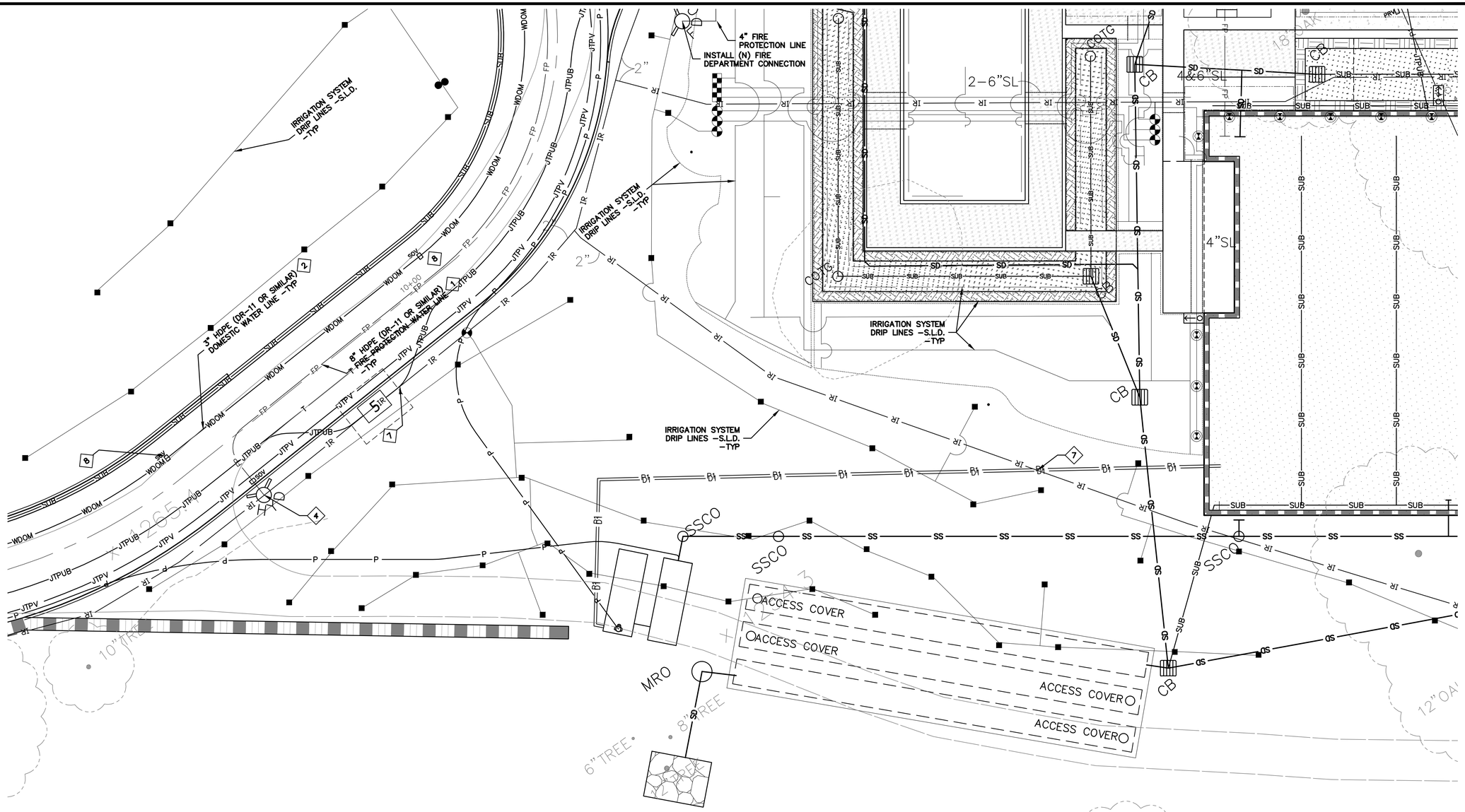

LEGEND

F1	FIRE ALARM POWER CONDUIT
FP	FIRE PROTECTION LINES
WDOM	WATER DOMESTIC LINE
IR	IRRIGATION LINE BY OTHERS
	FIRE HYDRANT
SOV	SHUT–OFF VALVE
WV	WATER VALVE
	THRUST BLOCK
	BACK FLOW PREVENTOR
PRV	PRESSURE REDUCER VALVE

WATER SERVICE KEYNOTES 1 TO 10

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0 5 10 20

SCALE: 1" = 10'

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — JENNIFER CARLISLE — No. C79555 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

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07–22–20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.10

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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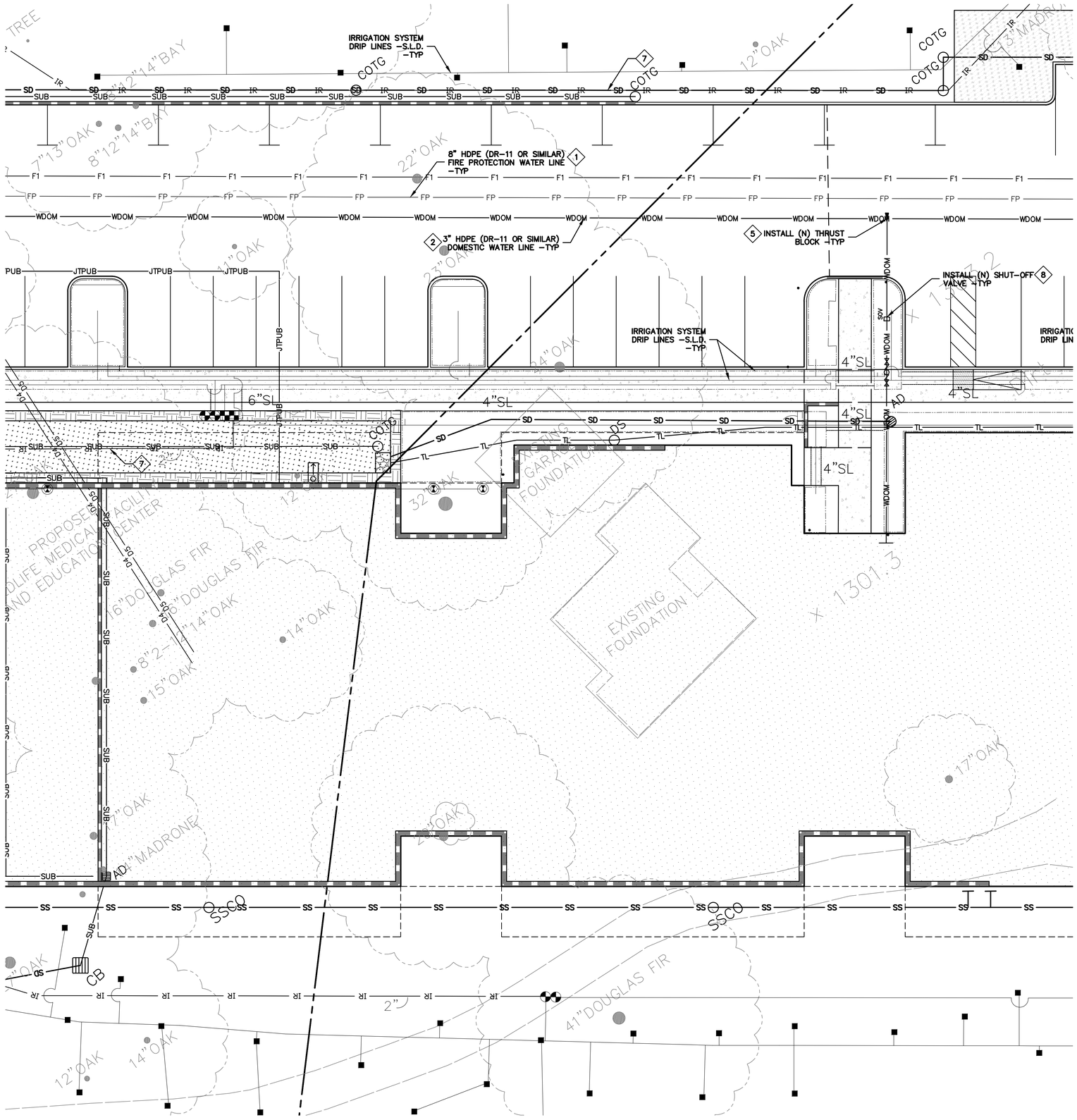

0 5 10 20

SCALE: 1" = 10'

LEGEND

F1	FIRE ALARM POWER CONDUIT
FP	FIRE PROTECTION LINES
WDOM	WATER DOMESTIC LINE
IR	IRRIGATION LINE BY OTHERS
	FIRE HYDRANT
SOV	SHUT-OFF VALVE
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PRV	PRESSURE REDUCER VALVE

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REGISTERED PROFESSIONAL ENGINEER — PETER CARLSON — No. C79535 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

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ISSUES AND REVISIONS

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SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.11

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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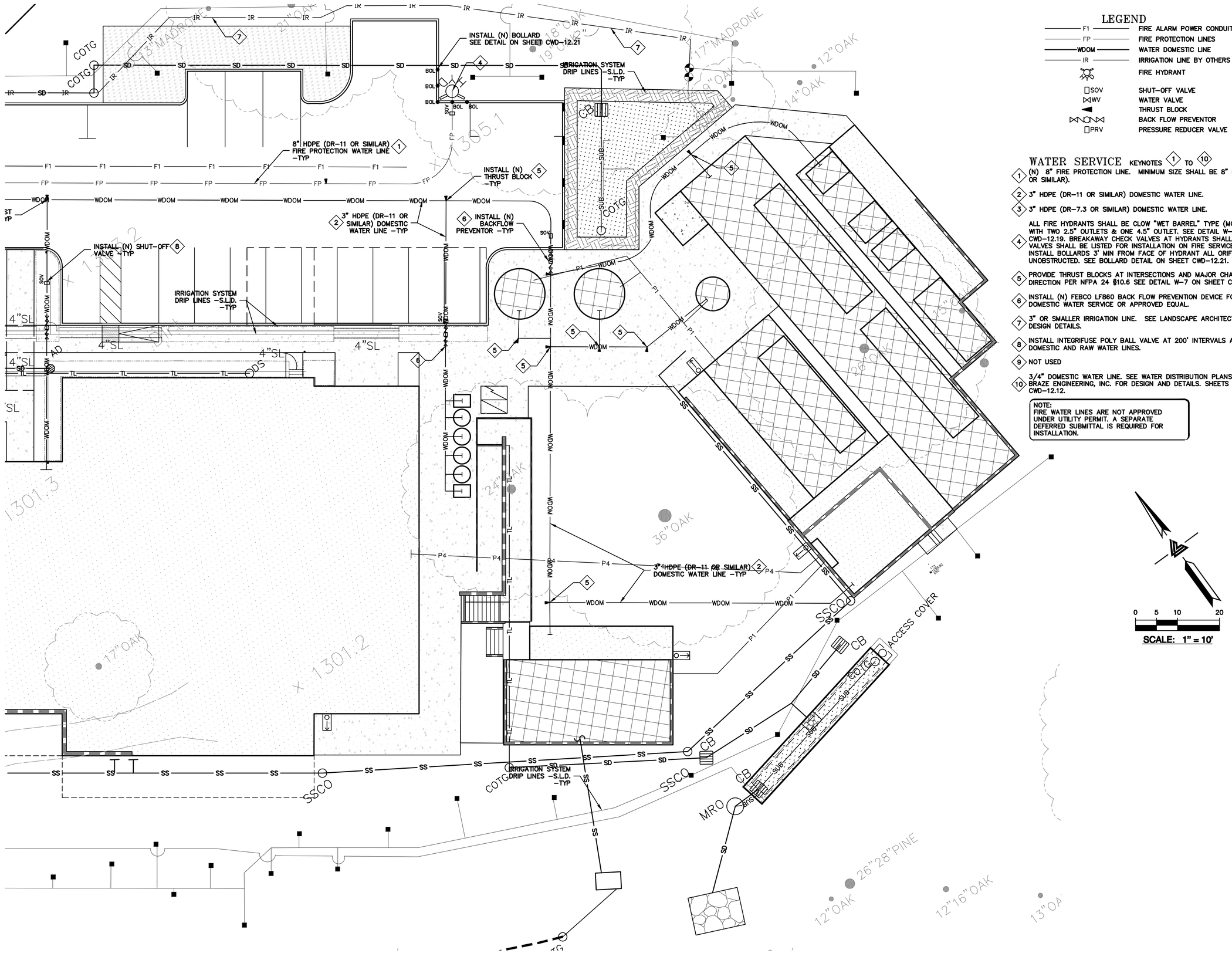

LEGEND

F1	FIRE ALARM POWER CONDUIT
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WATER SERVICE KEYNOTES 1 TO 10

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07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.12

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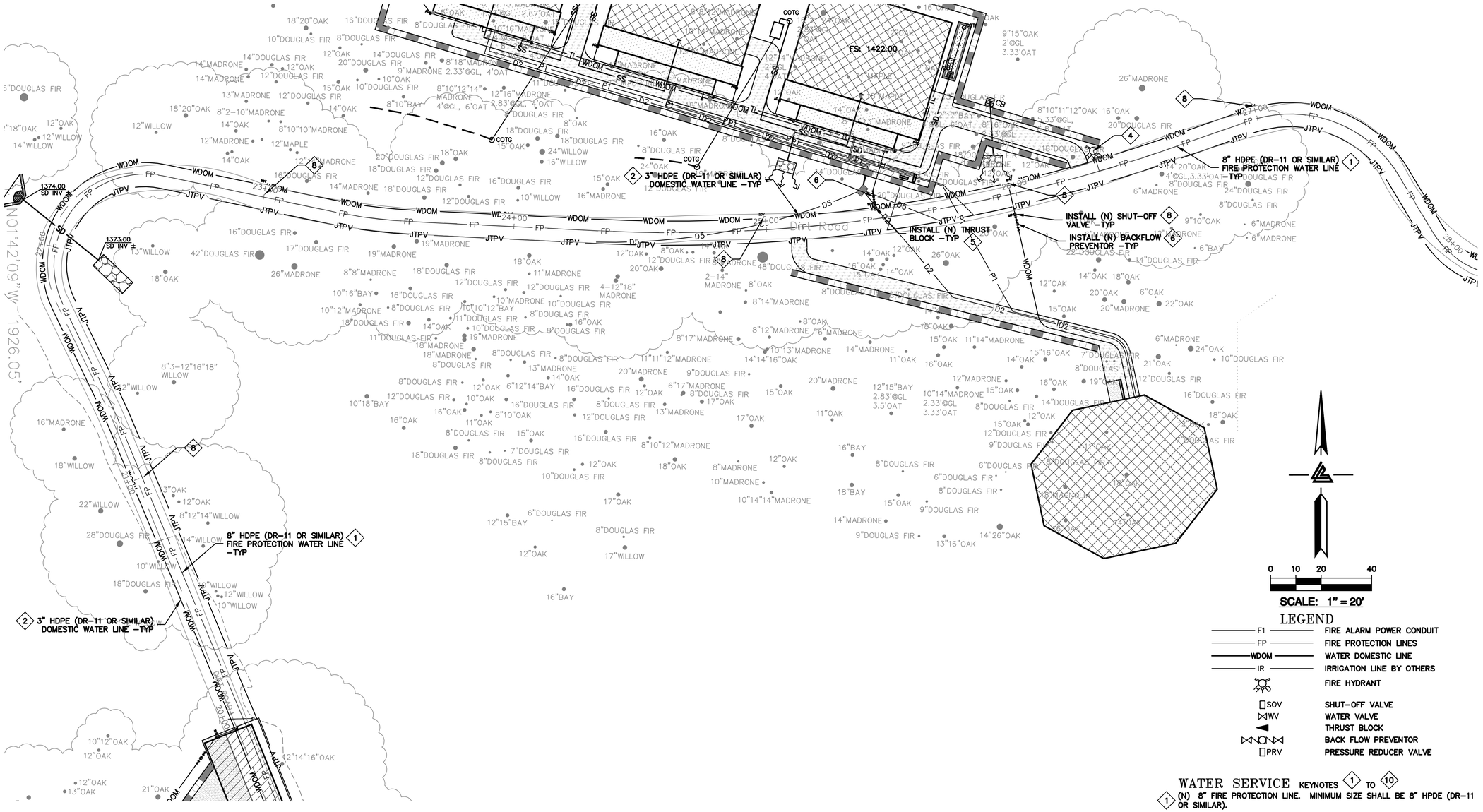

LEGEND

F1	FIRE ALARM POWER CONDUIT
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SANTA CLARA COUNTY
RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE	1" = 20'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.13

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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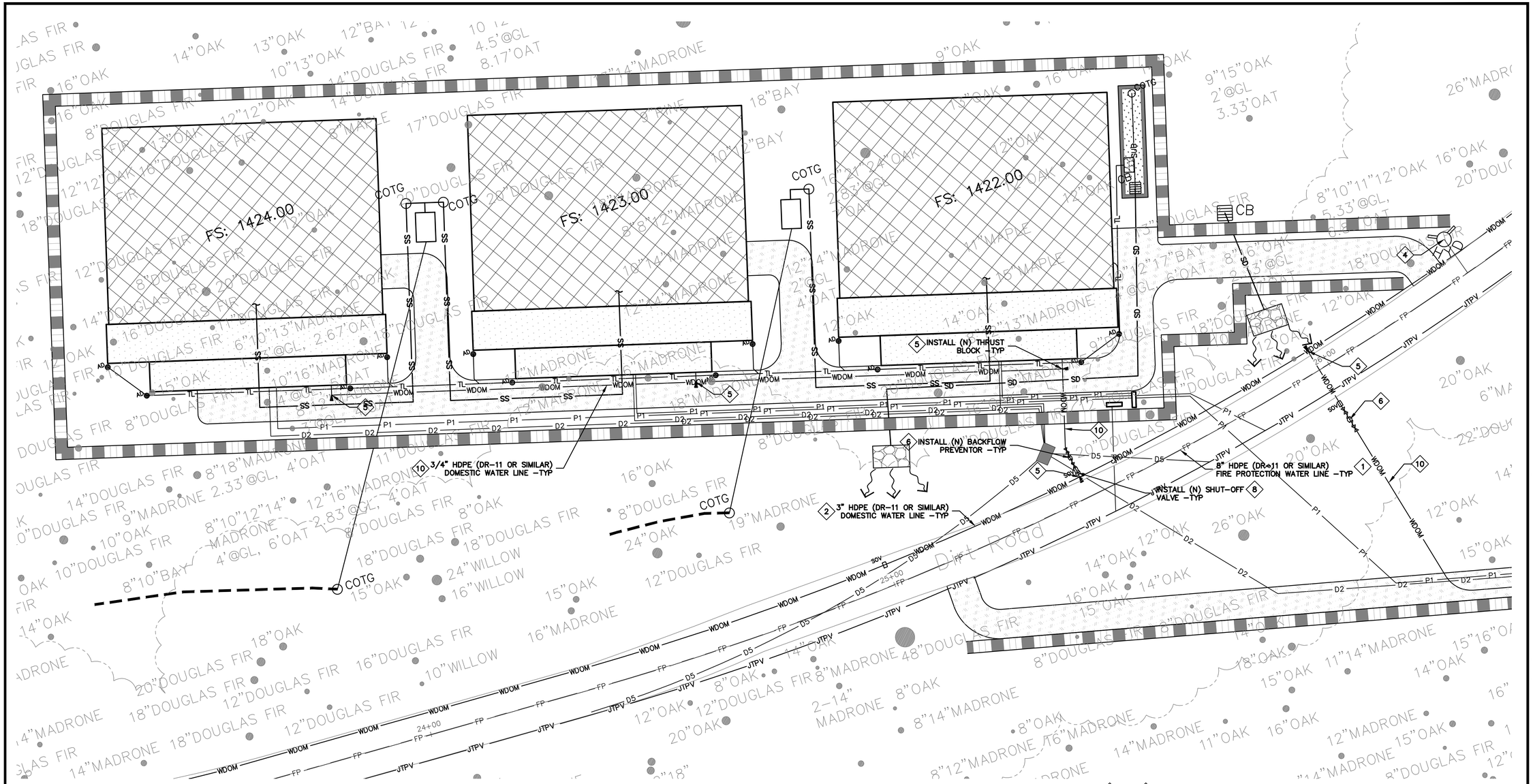

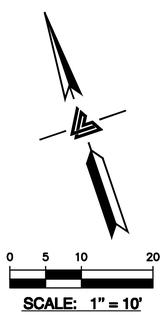

SCALE: 1" = 10'

LEGEND

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5. PROVIDE THRUST BLOCKS AT INTERSECTIONS AND MAJOR CHANGES IN DIRECTION PER NFPA 24 §10.6 SEE DETAIL W-7 ON SHEET CWD-12.19.
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7. 3" OR SMALLER IRRIGATION LINE. SEE LANDSCAPE ARCHITECT PLANS FOR DESIGN DETAILS.
8. INSTALL INTEGRIFUSE POLY BALL VALVE AT 200' INTERVALS ALONG THE DOMESTIC AND RAW WATER LINES.
9. NOT USED
10. 3/4" DOMESTIC WATER LINE. SEE WATER DISTRIBUTION PLANS BY LEA & BRAZE ENGINEERING, INC. FOR DESIGN AND DETAILS. SHEETS CWD-12.0 TO CWD-12.12.

NOTE:
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ELLISON CONSERVATION
CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER
PETER CARLTON
No. C79333
CIVIL
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

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ROSEVILLE, CA 95661
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WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
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04-11-19	ASA DELTA 2
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01-28-20	PERMIT MODIFICATION 2
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07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY
RECORD INFORMATION
APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE	1" = 10'
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.14

ASA/USE PERMIT
MODIFICATION #3
PLN-17-6943

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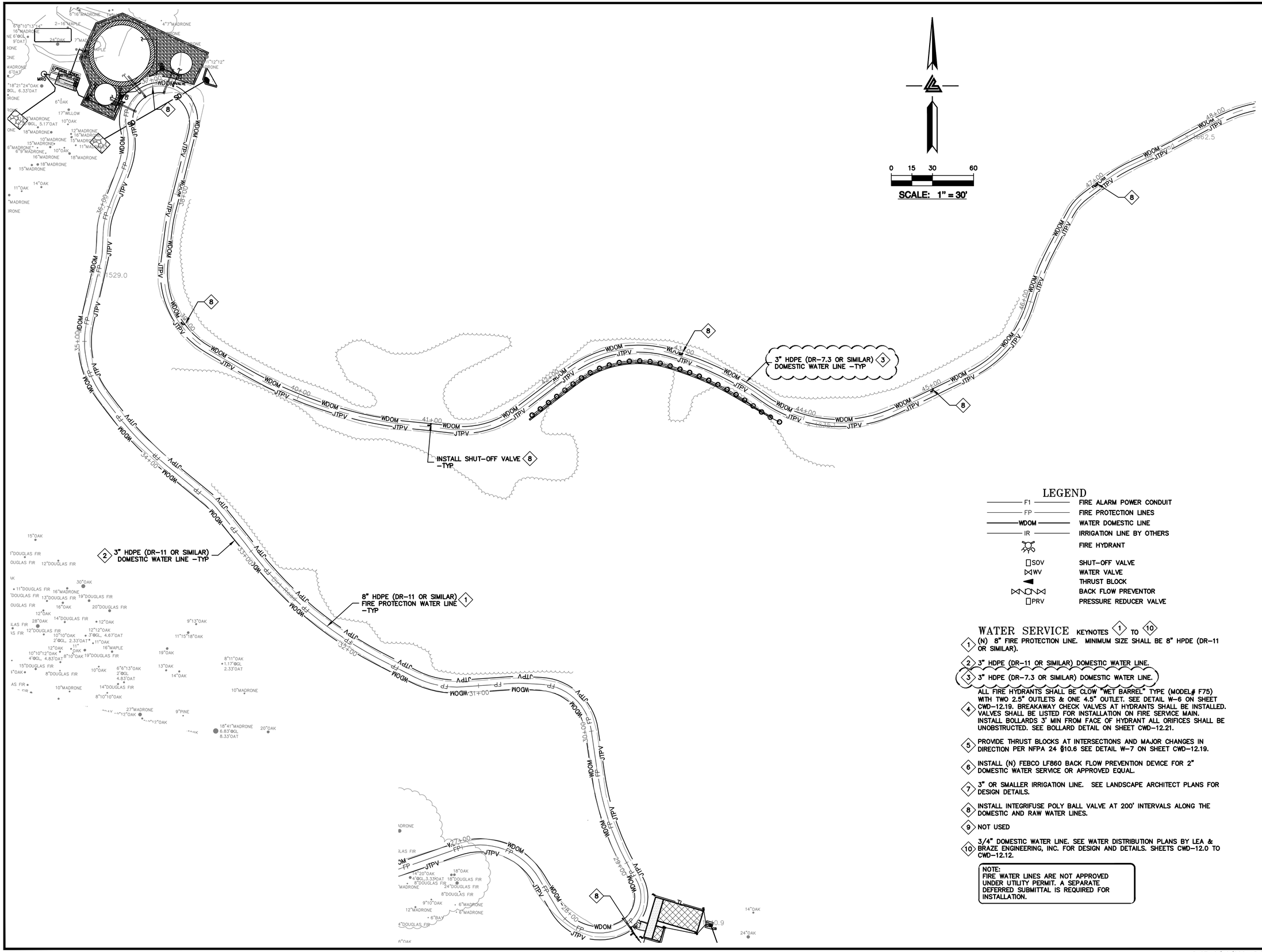

LEGEND

- F1 — FIRE ALARM POWER CONDUIT
- FP — FIRE PROTECTION LINES
- WDOM — WATER DOMESTIC LINE
- IR — IRRIGATION LINE BY OTHERS
- FIRE HYDRANT
- SOV — SHUT-OFF VALVE
- WV — WATER VALVE
- THRUST BLOCK
- BACK FLOW PREVENTOR
- PRV — PRESSURE REDUCER VALVE

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ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER — PETER CARLTON — No. C79555 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

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SANTA CLARA COUNTY RECORD INFORMATION
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ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE
1" = 30'

Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.15

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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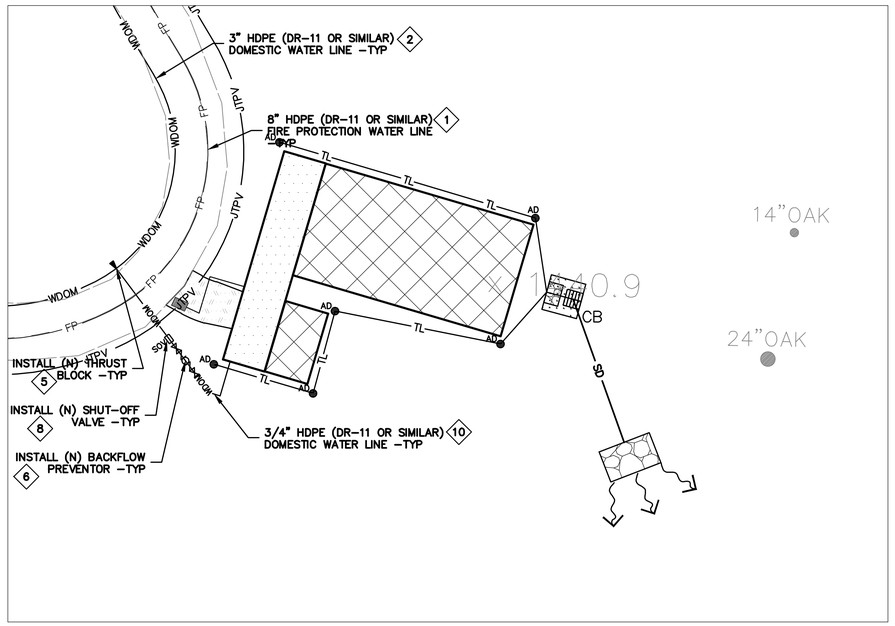

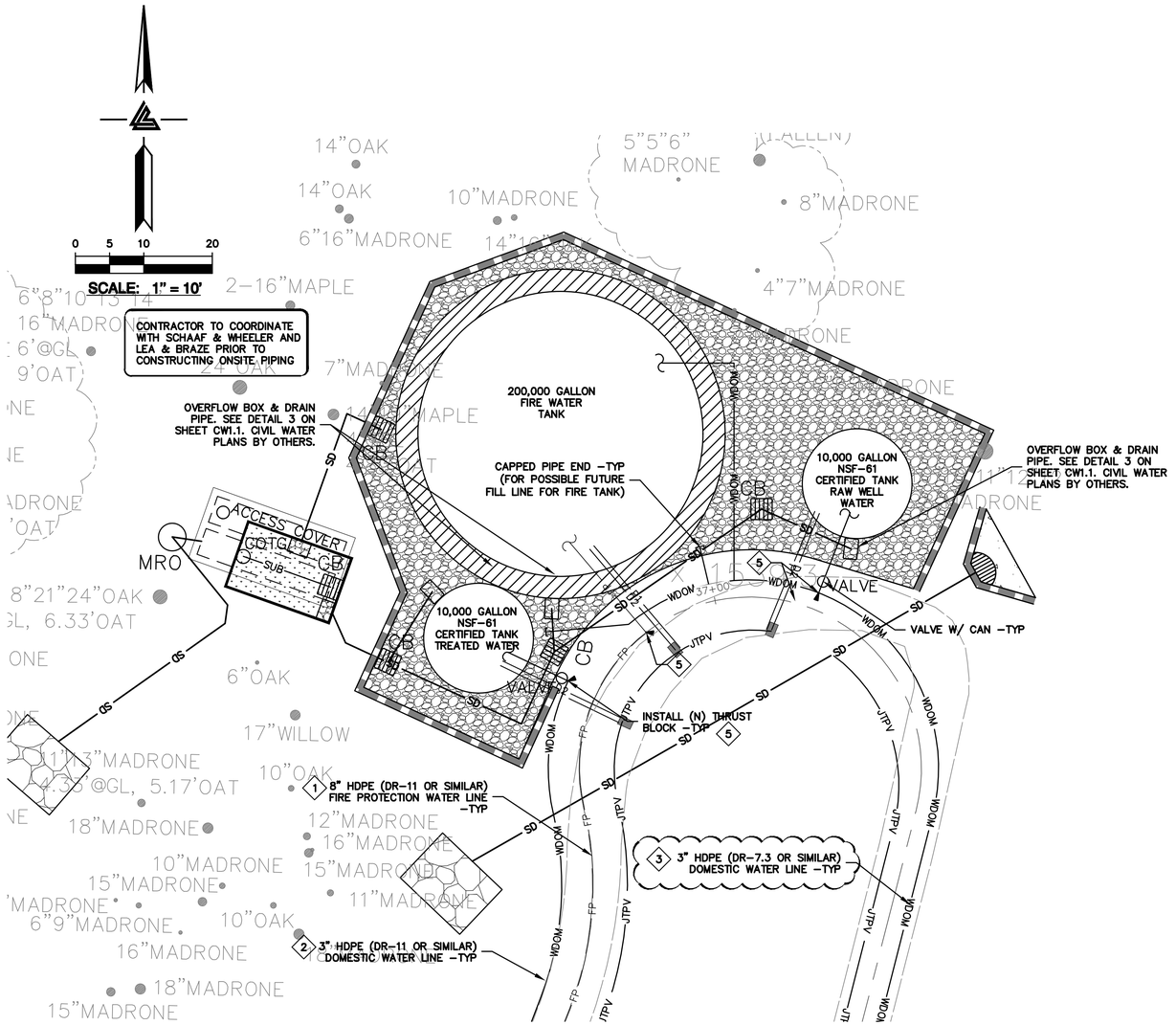

LEGEND

F1	FIRE ALARM POWER CONDUIT
FP	FIRE PROTECTION LINES
WDOM	WATER DOMESTIC LINE
IR	IRRIGATION LINE BY OTHERS
	FIRE HYDRANT
SOV	SHUT-OFF VALVE
WV	WATER VALVE
	THRUST BLOCK
	BACK FLOW PREVENTOR
PRV	PRESSURE REDUCER VALVE

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REGISTERED PROFESSIONAL ENGINEER — PETER CANLIDO — No. C79555 — CIVIL — STATE OF CALIFORNIA — ORIGINAL SIGNATURES IN BLUE INK

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SANTA CLARA COUNTY RECORD INFORMATION
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ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE
1" = 10'

Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.16

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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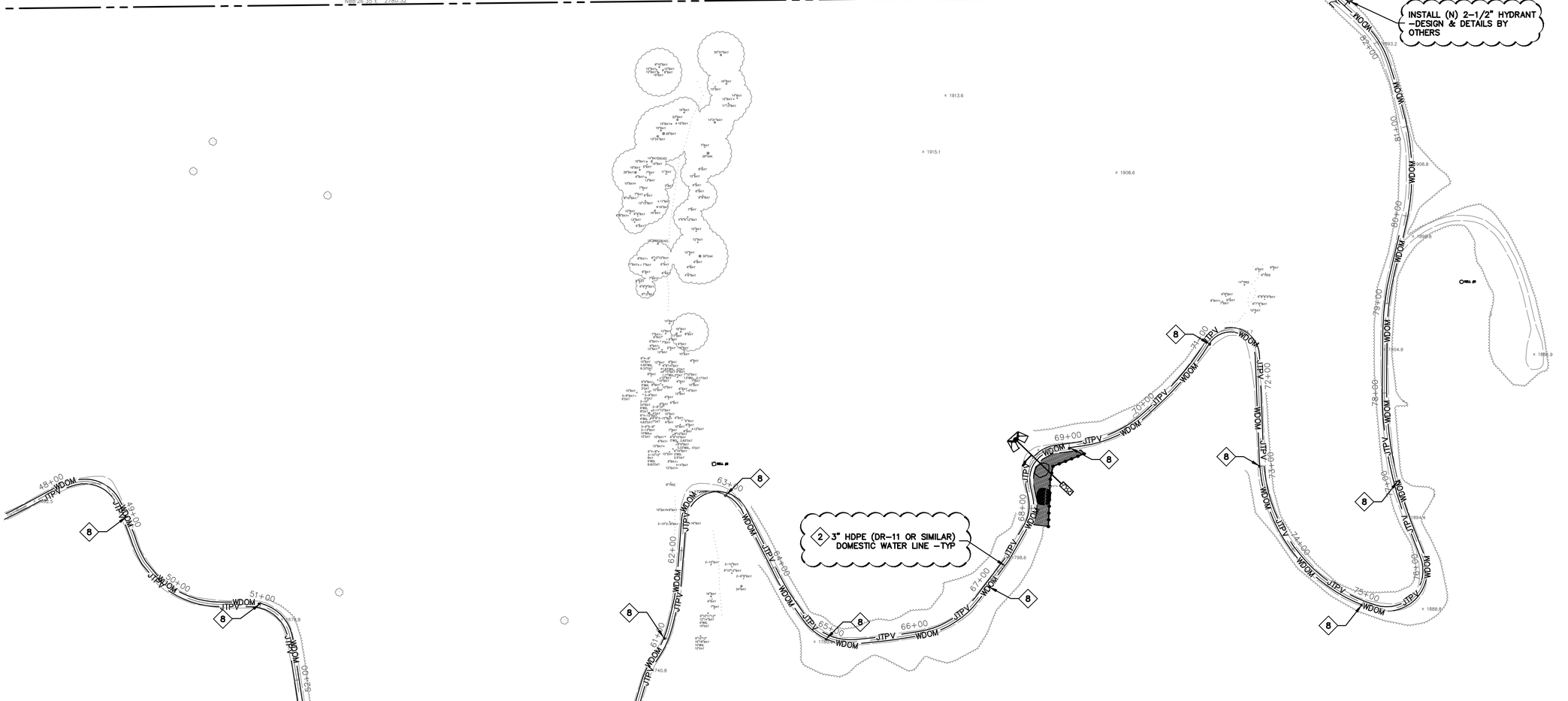
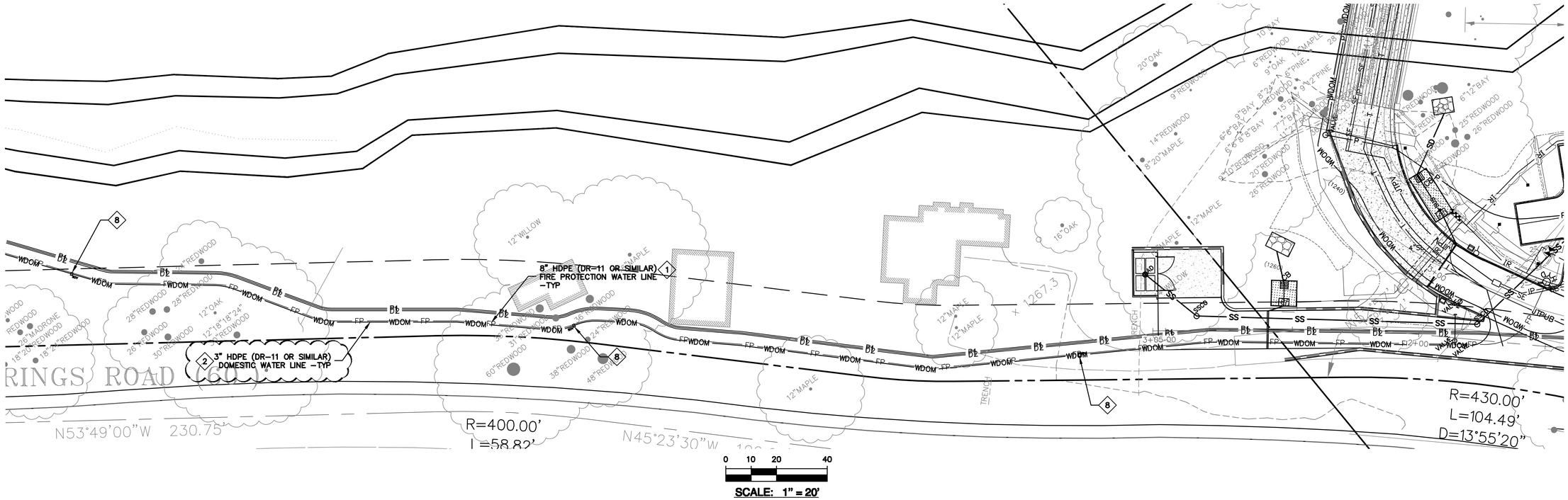
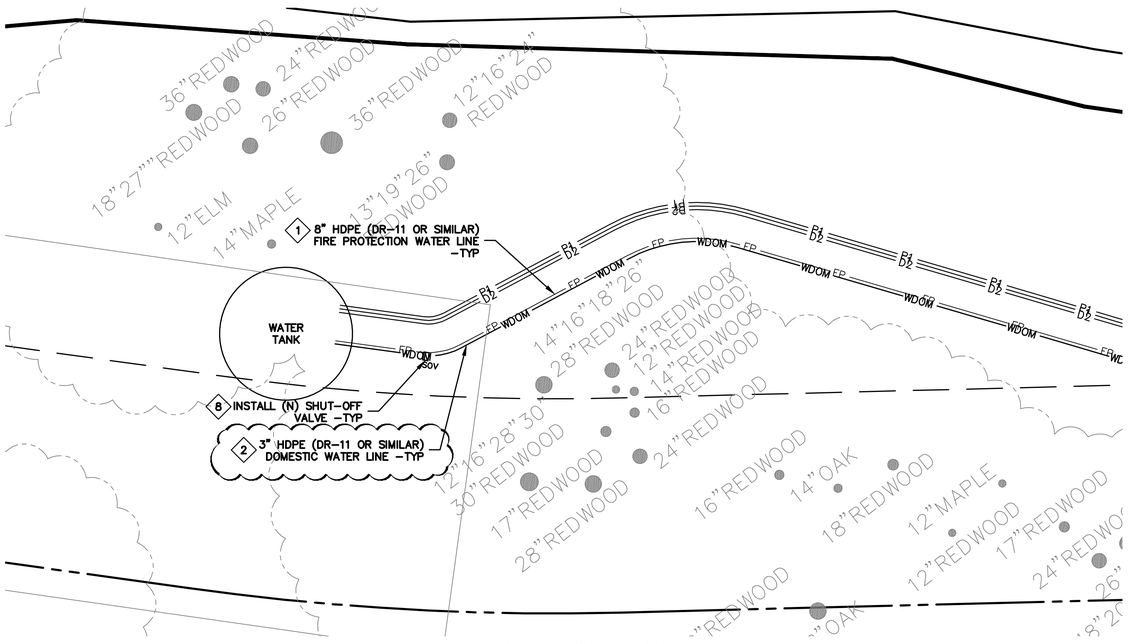
SEE PLANS BY SCHAAF & WHEELER FOR CONTINUATION ONTO ADJACENT PROPERTY

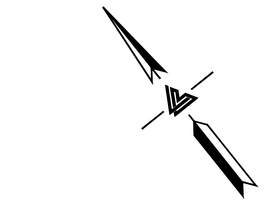
INSTALL (N) 2-1/2" HYDRANT -DESIGN & DETAILS BY OTHERS

2 3" HDPE (DR-11 OR SIMILAR) DOMESTIC WATER LINE -TYP









LEGEND

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SANTA CLARA COUNTY
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APPLICANT: PENINSULA HUMANE SOCIETY
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GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION SYSTEM PLAN

SCALE
AS SHOWN

Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.18

ASA/USE PERMIT
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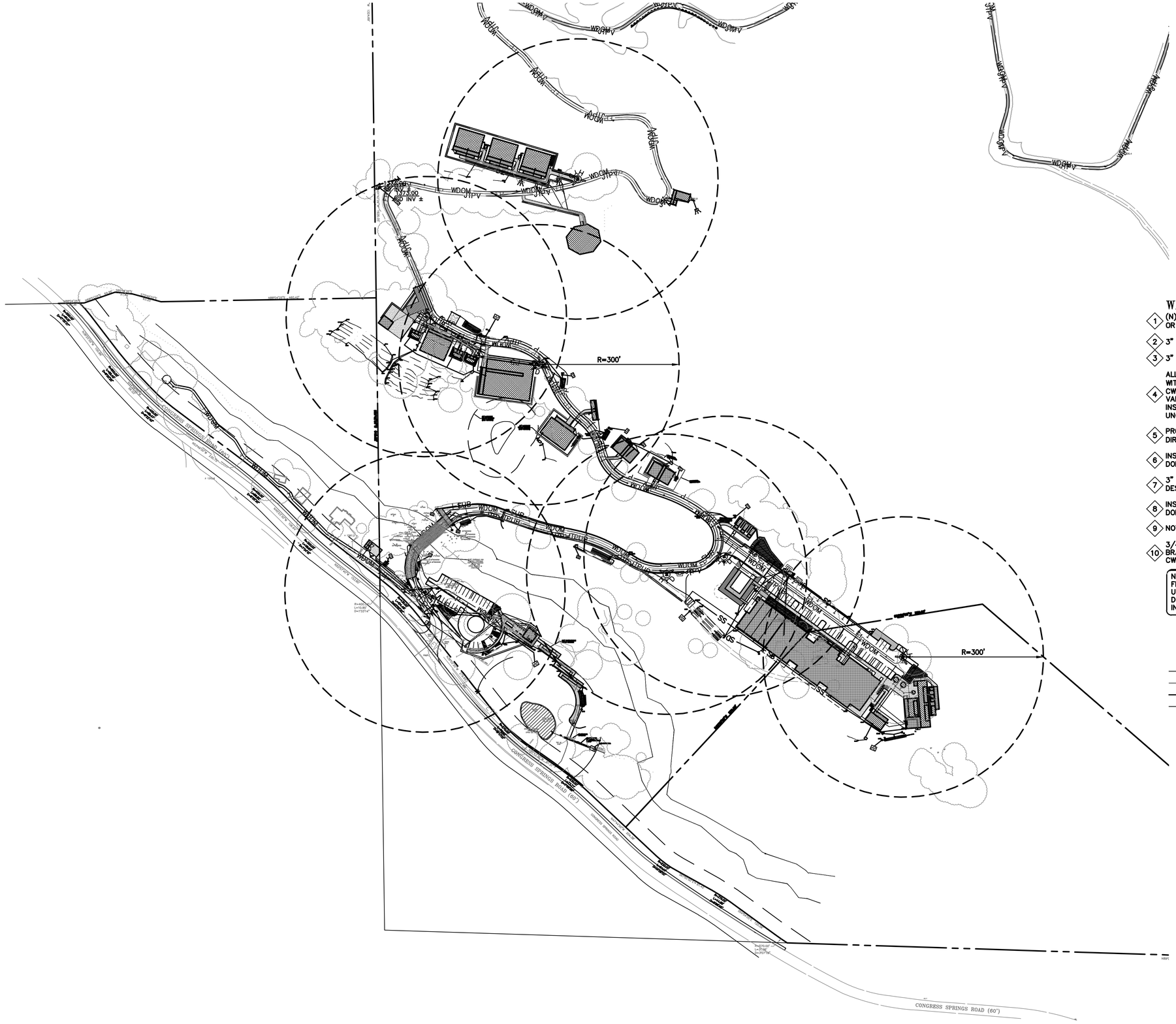

0 50 100 200

SCALE: 1" = 100'

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PROJECT NUMBER
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SHEET TITLE
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SCALE
1" = 100'

Designed By	PC / CA
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SHEET NUMBER
CWD-12.19

ASA/USE PERMIT MODIFICATION #3
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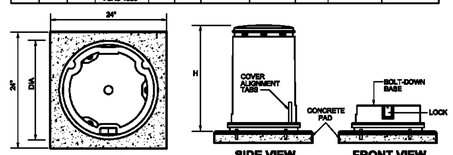
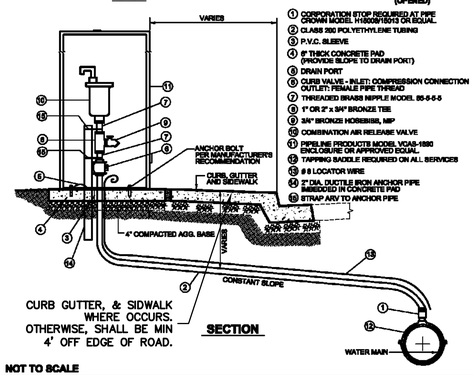
MAIN SIZE	MAX. MAIN SLOPE	AIR VALVE SIZE	BOX MODEL	DIMENSION DIA	DIMENSION H	ANCHOR PIPE DIA	PAD SIZE	P.E. TUBING	CORP. STOP MODEL	CURB VALVE
UP TO 6"	5%	1"	PIPELINE PRODUCTS VCAS-1030	18"	30"	1.5"	24" x 24"	1"	MUELLER H-15008	1" MUELLER H-10172
8"-12"	5%	2"	PIPELINE PRODUCTS VCAS-1030	18"	30"	2"	24" x 24"	2"	MUELLER H-15013	2" MUELLER H-10172



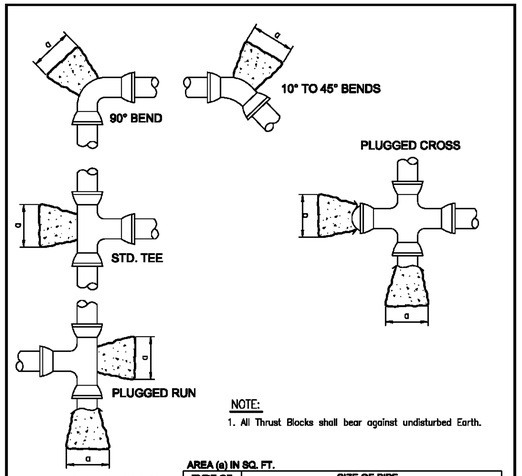


NOT TO SCALE

ABOVE GROUND COMBINATION AIR RELEASE & VACUUM VALVE

NTS

STANDARD DETAIL
W - 1
SHT 1 OF 1



AREA (a) IN SQ. FT.

TYPE OF FITTING	SIZE OF PIPE 4"	6"	8"	10"	12"	14"	16"	18"
90° ELL	2	5	8	13	18	25	32	41
45° ELL	1	3	5	7	10	14	18	22
22 1/2° ELL	1	2	3	4	5	7	9	12
11 1/4° ELL	1	1	2	2	3	4	5	6
PLUG/TEE	1.5	4	6	9	13	18	23	29

Based on Soil bearing value of 2000 lbs. per sq. ft. and water pressure of 225 psi form as required to keep concrete off of mechanical joint or flange bolts.

NOT TO SCALE

STANDARD DETAIL
W - 7
SHT 1 OF 1

THRUST BLOCKS

NTS

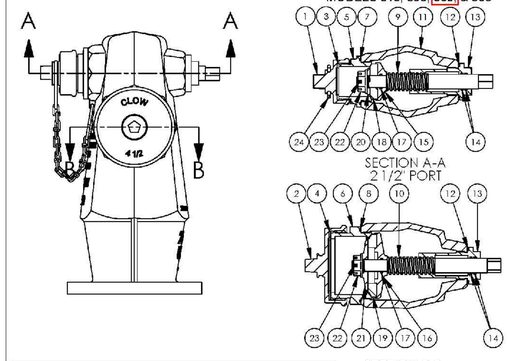
~~BOOK D-1794~~

NOTE:
BREAKAWAY CHECK VALVES AT HYDRANTS SHALL BE INSTALLED. VALVES SHALL BE LISTED FOR INSTALLATION ON FIRE SERVICE MAIN.

800 SERIES WET BARREL HYDRANT MATERIAL LIST

CLOW VALVE COMPANY

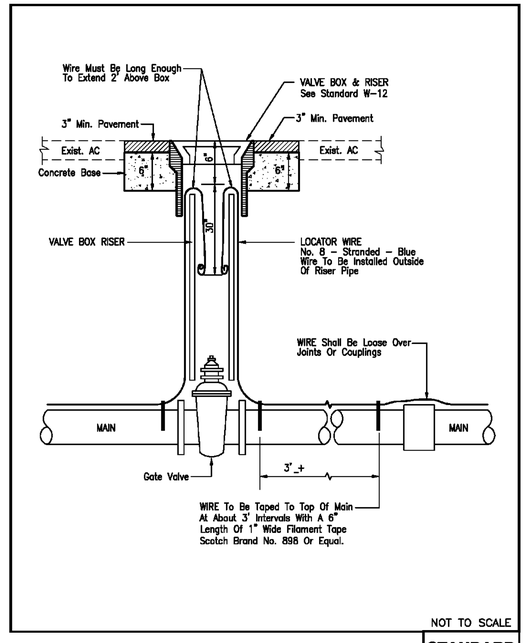
MODELS ~~810, 850,~~ 860 ~~& 865~~



ITEM	DESCRIPTION	MATERIAL
1	Hose Cap	Cast Iron or Plastic
2	Pumper Cap	Cast Iron or Plastic
3	Hose Cap Gasket	Rubber
4	Pumper Cap Gasket	Rubber
5	Hose Outlet Nozzle	Copper Alloy
6	Pumper Outlet Nozzle	Copper Alloy
7	Hose Nozzle O-Ring	Rubber
8	Pumper Nozzle O-Ring	Rubber
9	Hose Port Stem	Copper Alloy
10	Pumper Port Stem	Copper Alloy
11	Body	Grey Iron or Ductile Iron
12	Stem Sleeve O-Ring - External	Rubber
13	Stem Sleeve	Copper Alloy
14	Stem Sleeve O-Ring - Internal	Rubber
15	Hose Valve Carrier	Copper Alloy
16	Pumper Valve Carrier	Copper Alloy
17	Carrier O-Ring	Rubber
18	Hose Valve Seat	Rubber
19	Pumper Valve Seat	Rubber
20	Hose Valve Retainer	Copper Alloy
21	Pumper Valve Retainer	Copper Alloy
22	Retaining Nut	Copper Alloy
23	Cotter Pin	Copper Alloy
24	Chain Assembly	Steel

FIRE HYDRANT

NTS

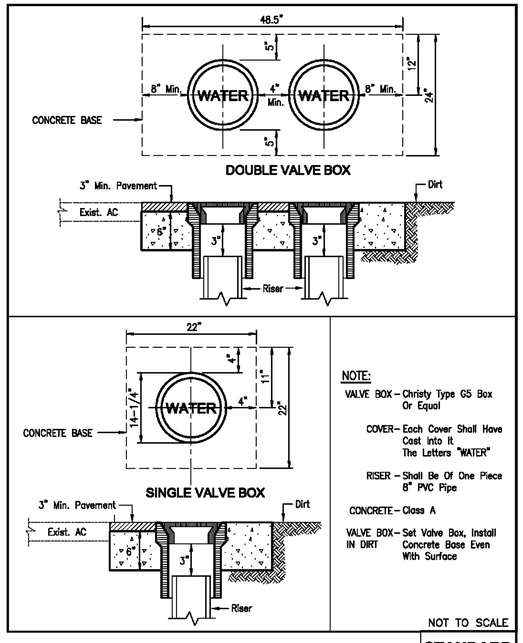


NOT TO SCALE

STANDARD DETAIL
W - 10
SHT 1 OF 1

LOCATOR WIRE

NTS



NOTE:

VALVE BOX – Christy Type G5 Box Or Equal

COVER – Each Cover Shall Have Cast into It The Letters "WATER"

RISER – Shall Be Of One Piece 8" PVC Pipe

CONCRETE – Class A

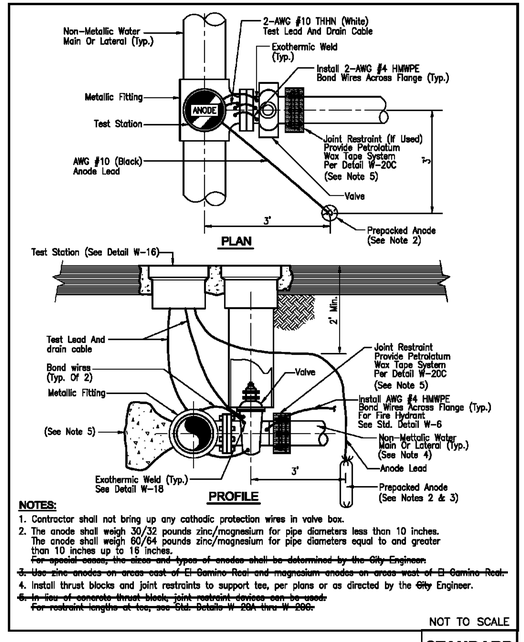
VALVE BOX – Set Valve Box, Install IN DIRT Concrete Base Even With Surface

NOT TO SCALE

STANDARD DETAIL
W - 12
SHT 1 OF 1

VALVE BOX & RISER

NTS



NOTES:

1. Contractor shall not bring up any cathodic protection wires in valve box.
2. The anode shall weigh 30/32 pounds zinc/magnesium for pipe diameters less than 10 inches. The anode shall weigh 60/64 pounds zinc/magnesium for pipe diameters equal to and greater than 10 inches up to 16 inches. ~~For special cases, the sizes and types of anodes shall be determined by the City Engineer.~~
3. ~~Use zinc anodes on areas east of El Camino Real and magnesium anodes on areas west of El Camino Real.~~
4. Install thrust blocks and joint restraints to support tee, per plans or as directed by the ~~City~~ Engineer.
5. ~~In lieu of concrete thrust block, joint restraint devices can be used. For restraint lengths at tee, see Std. Details W-20A thru W-20C.~~

NOT TO SCALE

STANDARD DETAIL
W - 14
SHT 1 OF 1

CATHODIC PROTECTION AT FITTINGS & VALVES

NTS

ELLISON CONSERVATION CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER
No. C79535
CIVIL
STATE OF CALIFORNIA
ORIGINAL SIGNATURES IN BLUE INK

KSH ARCHITECTS
KORTH SUNSERI HAGEY

LEA & BRAZE ENGINEERING, INC.
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ROSEVILLE, CA 95661
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(F) (916)797-7363
WWW.LEABRAZE.COM

ISSUES AND REVISIONS

DATE	DESCRIPTION
09-06-18	GRADING PERMIT PLAN CHECK 4
12-21-18	PERMIT RESUBMITTAL
03-26-19	PERMIT MODIFICATION PLAN CHECK 1
04-11-19	ASA DELTA 2
04-22-19	BID SET
05-10-19	BID SET ADDENDUM 1
05-22-19	UTILITY PLAN CHECK 1
08-06-19	PHASE 4 – PERMIT SUBMITTAL
09-20-19	CONSTRUCTION SET 1
01-28-20	PERMIT MODIFICATION 2
05-29-20	PLAN CHECK RESPONSE PERMIT MODIFICATION 2
07-22-20	UTILITY PLAN SUBMITTAL

SANTA CLARA COUNTY RECORD INFORMATION

APPLICANT: PENINSULA HUMANE SOCIETY
ROAD: CONGRESS SPRINGS
LDE FILE: 6943-17-17G
GRADING PERMIT: DEV19-1838
UTILITY PERMIT: DEV19-0220

PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION DETAILS

	SCALE
	NTS
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.20

ASA/USE PERMIT MODIFICATION #3
PLN-17-6943

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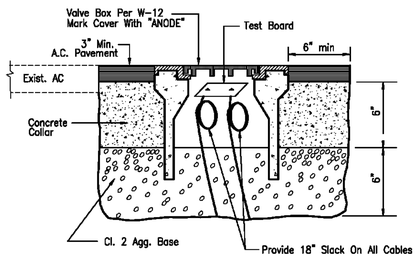
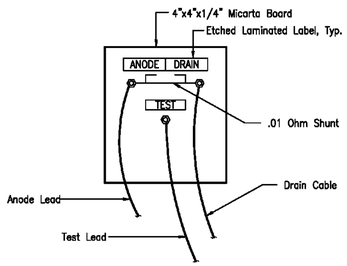


TEST STATION HOUSING DETAIL



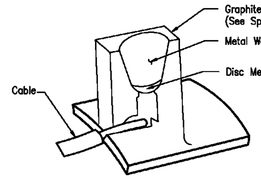
TEST BOARD DETAIL

NOT TO SCALE

CATHODIC PROTECTION TEST STATION HOUSING

NTS

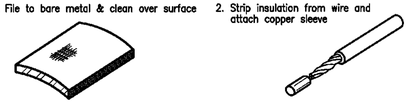
STANDARD DETAIL
W - 16
SHT 1 OF 1



MOLD DETAIL

STEPS:

1. File to bare metal & clean over surface
2. Strip insulation from wire and attach copper sleeve



3. Hold mold firmly with opening away from operator ignite with flint gun.
4. Remove slag from connection, cover connection with compatible coating over metal all exposed.

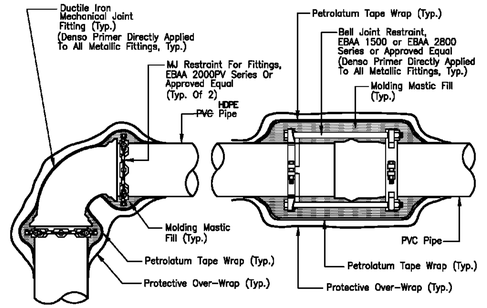


NOT TO SCALE

CATHODIC PROTECTION EXOTHERMIC WELD

NTS

STANDARD DETAIL
W - 18
SHT 1 OF 1



NOTES:

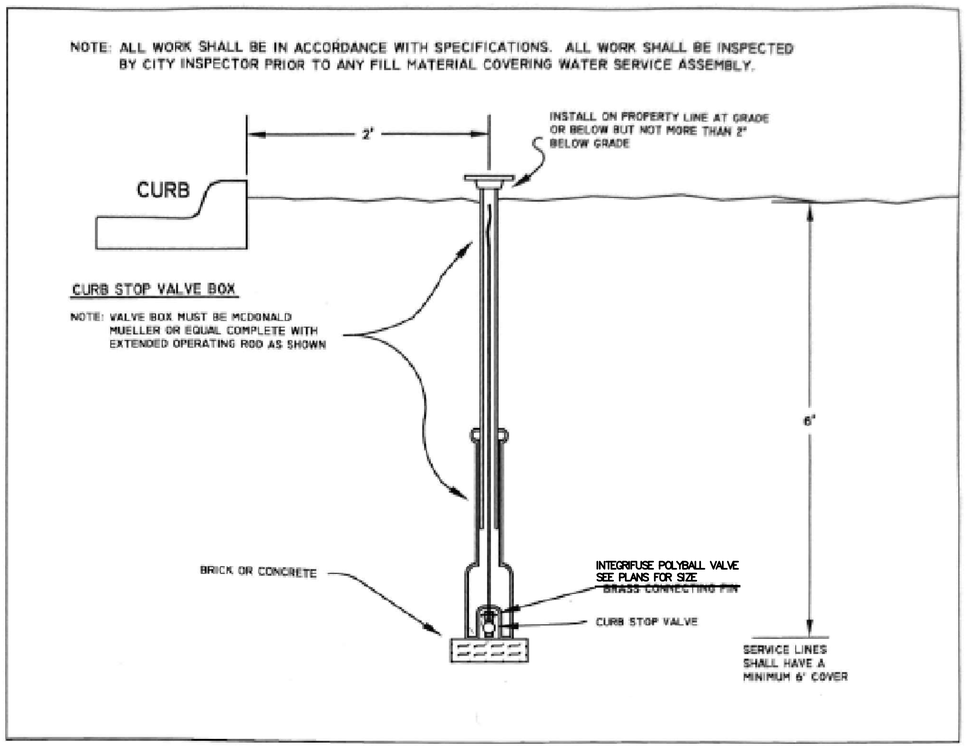
1. The petrolatum tape system is by Trenton Corporation, Denso Paste and Densyl Tape made by Denso North America, or approved equal. See installation steps below notes.
2. Applicable to fittings in horizontal and vertical orientations.
3. Provide a smooth profile on irregular shaped fittings such as flanged joints and joint restraints using molded mastic filler packed into irregularities to eliminate bridging and voids prior to wrapping.
4. Over-Wrap shall be plasticized PVC tape with rubber adhesive.
5. Installation steps in order are listed below.
   a. Apply Denso Primer.
   b. Apply Molded Plastic filler.
   c. Install Petrolatum Tape.
   d. Install protective Over-Wrap.

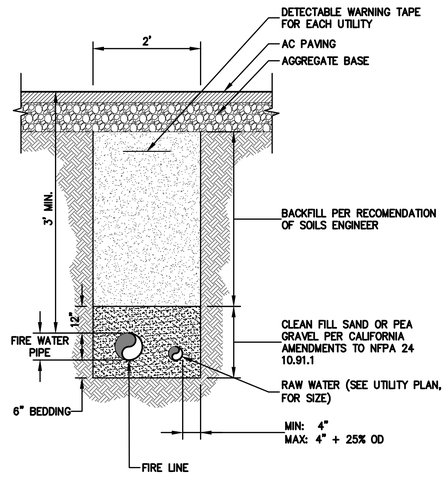
NOT TO SCALE

JOINT RESTRAINT WITH PETROLATUM TAPE SYSTEM

NTS

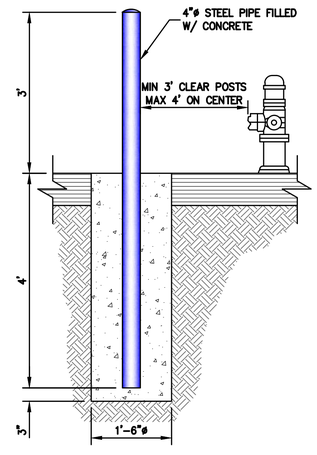
STANDARD DETAIL
W - 20C
SHT 1 OF 1





JOINT TRENCH BACKFILL FIRE WATER

NTS



BOLLARD

NTS

ELLISON CONSERVATION
CENTER FOR WILDLIFE CARE
SARATOGA, CA

REGISTERED PROFESSIONAL ENGINEER
PETER CARLTO
No. C79338
CIVIL
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ORIGINAL SIGNATURES IN BLUE INK

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SANTA CLARA COUNTY
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PROJECT NUMBER
16011.00

SHEET TITLE
WATER DISTRIBUTION DETAILS

SCALE	NTS
Designed By	PC / CA
Checked By	PC / JL
LB Job No.	2130712

SHEET NUMBER
CWD-12.21

ASA/USE PERMIT
MODIFICATION #3
PLN-17-6943

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