

4/2/2020 1:23 PM S:\Clients\1321-19 Alvarez Farms LLC - 12990 Spruce Grove Road\CAD\Septic\1321-19 Septic Plans.dwg Printed by Elmer

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD OWNER AND BC ENGINEERING GROUP HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
2. THE ENGINEER ASSUMES NO RESPONSIBILITY OTHER THAN FOR THE ADEQUACY OF THE DESIGN CONTAINED HEREIN.
3. ALL MATERIALS TO BE USED ARE TO BE APPROVED BY THE ENGINEER PRIOR TO THEIR PLACEMENT. ANY MATERIALS INSTALLED PRIOR TO APPROVAL ARE SUBJECT TO REMOVAL.
4. AFTER COMPLETION OF WORK, WORK AREAS SHALL BE RESTORED TO THE ORIGINAL CONDITION BY THE CONTRACTOR.
5. LOCATION OF UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON PLANS ARE APPROXIMATE ONLY. CONTRACTOR SHALL ASSUME RESPONSIBILITY OF SAID UTILITIES SAFETY DURING CONSTRUCTION AND IF DAMAGED CONTRACTOR SHALL RESTORE SERVICES AT HIS EXPENSE. THE OWNER, THE ENGINEER AND THE COUNTY OF LAKE ASSUME NO RESPONSIBILITY FOR ANY OBSTRUCTIONS EITHER SHOWN OR NOT SHOWN ON THESE PLANS.
6. CONTRACTOR SHALL PERFORM TRENCH WORK IN ACCORDANCE WITH THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY. SAID WORK SHALL CONFORM TO ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH STANDARDS, RULES, REGULATIONS AND ORDERS ESTABLISHED BY THE STATE OF CALIFORNIA AND THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION.
7. THE CONTRACTOR SHALL OBTAIN A TRENCH (D.I.S.) PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH. A COPY OF THIS PERMIT MUST BE ON FILE IN THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION PRIOR TO THE COMMENCEMENT OF WORK.
8. BEFORE ANY EXCAVATION, CALL UNDERGROUND SERVICE ALERT, TOLL FREE AT (800) 642-2444 OR (800) 227-2600.
9. THE CONTRACTOR SHALL DO NO EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH UTILITY COMPANY AT LEAST 48 HOURS PRIOR TO STARTING WORK.
10. THE CONTRACTOR SHALL OBTAIN SANITARY SEWER CONSTRUCTION PERMIT(S) (IF NECESSARY), FROM THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION FOR, BUT NOT LIMITED TO, THE INSTALLATION OF SEWER MAINS AND SERVICES TO THE PROPOSED PROJECT OR TO EACH LOT IN THE SUBDIVISION.
11. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE COUNTY OF LAKE WATER AGENCY "DESIGN AND CONSTRUCTION STANDARDS FOR SANITATION FACILITIES", INCLUDING STANDARD DRAWINGS, (LATEST REVISION).
12. ALL SANITARY SEWER CONSTRUCTION SHALL BE INSPECTED BY AN INSPECTOR FROM THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DEPARTMENT, INSPECTION DIVISION. CALL: (707) 263-1164 48 HOURS ADVANCE NOTICE IN REQUIRED FOR ALL INSPECTIONS.
13. CONTRACTOR SHALL INSTALL BUILDING SEWER CLEANOUTS AT 2 FT. FROM WALLS. CLEANOUTS IN TRAFFIC AREAS, SHALL BE INSTALLED IN TRAFFIC RATED VALVE BOXES (CHRISTY MODEL G12, OR EQUAL). FOR NON-TRAFFIC AREAS, USE CHRISTY MODEL F8, OR EQUAL.) OR EQUAL.)
14. ALL CONSTRUCTION MATERIAL AND WORK SHALL CONFORM TO THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION STANDARDS.
15. ALL WATER FLOW FIXTURES DRAINING INTO THE SYSTEM SHOWN ON THESE PLANS SHALL BE OF THE LOW FLOW (WATER SAVING) VARIETY.
16. CONTRACTOR (INSTALLER):
 - MUST HAVE AN ACTIVE CALIFORNIA CONTRACTOR'S LICENSE - TYPES A OR C-42.
 - MUST HAVE CURRENT VERIFICATION OF WORKMEN'S COMPENSATION INSURANCE ON FILE WITH THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION.

SEPTIC SYSTEM CONSTRUCTION NOTES

1. THE PURPOSE OF THIS SEPTIC SYSTEM DESIGN IS TO INSTALL A CODE COMPLIANT STANDARD GRAVITY SEPTIC SYSTEM AT THE PROPOSED PARCEL LOCATED AT 12990 SPRUCE GROVE ROAD IN LOWER LAKE. THE PROPOSED CODE COMPLIANT STANDARD GRAVITY SEPTIC SYSTEM IS TO SERVE THE EXISTING TWO (2) BEDROOM RESIDENCE, WITH A TOTAL DOMESTIC WASTEWATER FLOW OF 300 GALLONS PER DAY. THE 300 GALLONS PER DAY PRODUCED BY THE EXISTING TWO (2) BEDROOM RESIDENCE SHALL BE COLLECTED IN THE PROPOSED 1,000 GALLON SEPTIC TANK, PROCEEDED BY A 500 SUMP TANK, AND THEN TRANSPORTED TO THE PROPOSED 24 INCH DEEP GRAVITY DISPERSAL AREA WITH 12 INCHES OF ROCK BELOW THE ORIFICES.
2. INSTALL ONE PRIMARY STANDARD LEACH FIELD WITH 200 LF OF LEACH LINE AS SHOWN ON THE PLANS. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT COUNTY OF LAKE GUIDELINES AND REGULATIONS FOR STANDARD SEWAGE DISPOSAL SYSTEMS.
3. ANY DISCREPANCIES BETWEEN THIS PLAN AND THE ABOVE MENTIONED RULES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
4. INSTALL ONE NEW 1,000 GALLON CONCRETE SEPTIC TANK. INSTALL ONE NEW 500 GALLON SUMP TANK. ALL TANKS SHALL BE IAPMO CERTIFIED.
5. INSTALL 8 LF 4" ABS GRAVITY PIPE FROM THE PROPOSED RESIDENCE TO THE SEPTIC TANK TO, 2% MINIMUM SLOPE.
6. INSTALL AN EFFLUENT PUMP TO PROVIDE 13.54 FEET OF TOTAL DYNAMIC HEAD AT 40 GPM. CONTRACTOR SHALL SUPPLY THE PUMP DATA TO THE ENGINEER AND COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION. RECOMMENDED PUMP: LIBERTY 280 SERIES, OR EQUIVALENT. VERIFY VOLTAGE AND PHASE REQUIREMENTS WITH GENERAL CONTRACTOR.
7. CONTRACTOR SHALL NOT OVER EXCAVATE THE TRANSMISSION LINE TRENCH. EXCAVATIONS ALLOWING THE SEWAGE TO SPILL FROM LEACH TRENCH TO THE TRANSMISSION LINE TRENCH AND OTHER TRENCHES SHALL BE REJECTED.
8. THE CONTRACTOR SHALL SUBMIT ALL EQUIPMENT SPECIFICATION TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
9. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL INSPECTIONS FROM THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION AND ENGINEER PRIOR TO FINAL APPROVAL. INSPECTIONS SHALL INCLUDE PUMP ELECTRICAL AND DISTRIBUTION TEST PRIOR TO BACKFILLING AND COVERING. ALL CONSTRUCTION MATERIALS SHALL BE ONSITE AT TIME OF INSPECTION. PROVIDE 48 HOUR NOTICE IN ADVANCE OF DESIRED INSPECTION TIME.
10. ALL CONSTRUCTION MATERIALS AND WORK SHALL CONFORM TO THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION.
11. NO WELL EXISTS WITHIN 100 FEET OF THE PROPOSED SEPTIC SYSTEM.
12. CONSTRUCTION OF THE TANKS, RISERS AND VALVE BOXES ARE TO MINIMIZE DIRECT GROUND WATER INFILTRATION. ALL GRADING SHALL BE SLOPED SO THAT INCIDENTAL RAIN WATER SHALL DRAIN AWAY FROM STRUCTURES. NO PONDING OR SURFACE WATER SHALL OCCUR WITHIN 50' OF THE SEPTIC SYSTEMS. A WATER TIGHT INSPECTION BY COUNTY OF LAKE, ON ALL TANKS, IS REQUIRED.
13. ALL DISTRIBUTION LINES AND BOTTOM OF TRENCHES SHALL BE SET LEVEL.

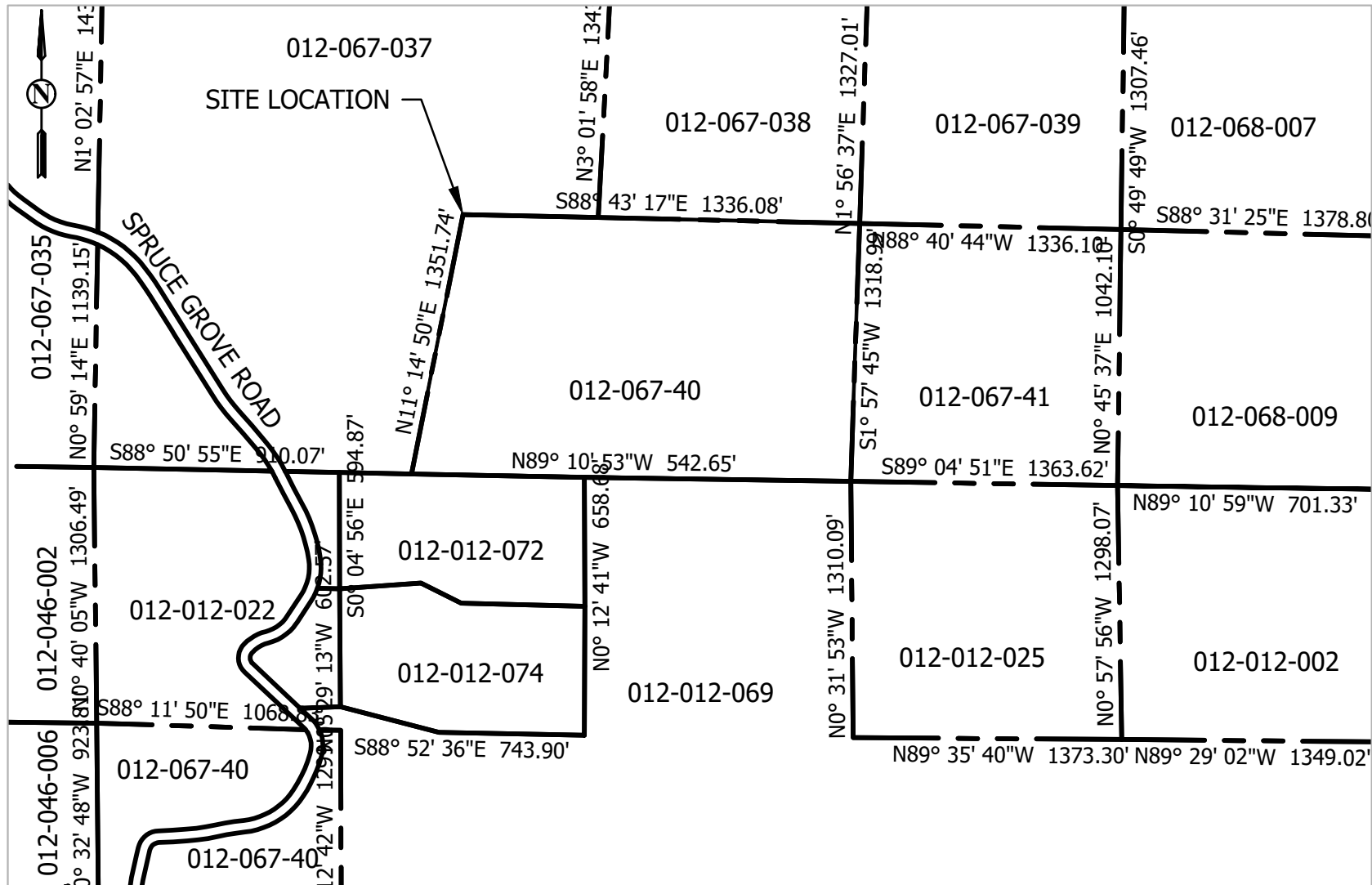
SEWAGE PUMP STATION SPECIFICATIONS

1. INSTALL ONE 500 GALLON SUMP TANK OR EQUIVALENT UNIT PER DETAIL. ON SHEET C1.3. SUMP TANK UNIT SHALL BE IAPMO CERTIFIED. ALL ACCESS PORTS ARE TO BE SEALED WITH THERMOPLUG OR OTHER OTHER APPROVED SEALANT.
2. INSTALL ONE (1) PUMP IN THE SUMP TANK UNIT PER DETAIL, SHEET C1.3. PUMP DESIGN: 40 GPM AT 13.54 FEET OF TOTAL DYNAMIC HEAD RECOMMENDED PUMP: LIBERTY PUMP 280 SERIES, OR EQUIVALENT. SUPPLY PUMP DATA TO THE ENGINEER AND COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION, PRIOR TO INSTALLATION.
3. SEWAGE PUMP STATIONS SHALL BE INSTALLED IN ACCORDANCE WITH COUNTY OF LAKE "LAKE COUNTY RULES AND REGULATIONS (LCR) FOR ON-SITE SEWAGE DISPOSAL", LATEST EDITION, LCR1-130 ; AND PER DETAIL. ALL PIPES AND/OR ELECTRICAL CONDUITS ENTERING THE SUMP CHAMBER SHALL BE GAS AND WATER TIGHT. GROUT OR ASPHALT EMULSION USED AS A SEALANT SHALL BE REJECTED. MOUND MANIFOLD AND SUPPLY LINE SHALL DRAIN BACK INTO PUMP STATION.
4. ELECTRICAL PANEL TO BE INSTALLED PER THESE PLANS. ELECTRICAL CONTROL PANEL SHALL BE A NEMA 4X OR BETTER WITH A PLEXIGLASS INSIDE COVER AND 7/8 INCH DIA. RED LIGHT MOUNTED ON PANEL FACE INDICATING HIGH WATER. PANEL SHALL OPERATE WITH A H.O.A. SWITCH AND BE EQUIPPED WITH A FUSED DISCONNECT AND MOTOR PROTECTION SWITCH. PANEL SHALL ALSO BE EQUIPPED WITH A DOSE COUNTER THAT IS NON-RESETABLE, A HIGH WATER AUDIO ALARM, AND A MOMENTARY "ALARM TEST/ALARM SILENCE" SWITCH TO TEST THE ALARM LIGHT AND ALARM AND TO SILENCE THE AUDIO ALARM DURING A HIGH WATER CONDITION. INSTALL WIDE ANGLE FLOAT SWITCHES IN PUMP CHAMBER. FLOAT CONTROLS SHALL BE SET PER DETAIL, SHEET C1.3 AN ELECTRICAL PERMIT AT THE BUILDING DET. IS REQUIRED.
5. CENTER PUMP UNDER ACCESS PORT. ELECTRICAL SPlicing WITHIN THE PUMP CHAMBER SHALL BE REJECTED. ELECTRICAL SPlicing OUTSIDE OF PUMP CHAMBER SHALL BE A 3M SPlice KIT ONLY. ALL PIPES AND/OR ELECTRICAL CONDUITS ENTERING THE SUMP CHAMBER SHALL BE GAS AND WATER TIGHT.
6. LIQUID LEVEL CONTROLS TO BE PROVIDED TO OPERATE WITHIN THE LIMITS SHOWN ON THE PUMP STATION DETAIL. HIGH WATER ALARM SHALL BE PROVIDED WITH ALARM BELL MOUNTED AT THE CONTROL BOX ON THE BUILDING.
7. THE CONTRACTOR SHALL SUBMIT ALL EQUIPMENT SPECIFICATIONS TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
8. CONTRACTOR SHALL COORDINATE AND OBTAIN ALL INSPECTIONS FROM COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION AND ENGINEER PRIOR TO FINAL APPROVAL. INSPECTIONS SHALL INCLUDE PUMP ELECTRICAL AND DISTRIBUTION TEST PRIOR TO BACKFILLING AND COVERING. ALL CONSTRUCTION MATERIALS SHALL BE ON-SITE AT TIME OF INSPECTION. PROVIDE 48 HOURS NOTICE IN ADVANCE OF DESIRED INSPECTION TIME.
9. ALL CONSTRUCTION MATERIALS AND WORK SHALL CONFORM TO THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION STANDARDS.
10. **CONTRACTOR IS RESPONSIBLE FOR OBTAINING ELECTRICAL PERMIT FOR CONTROL PANEL.**

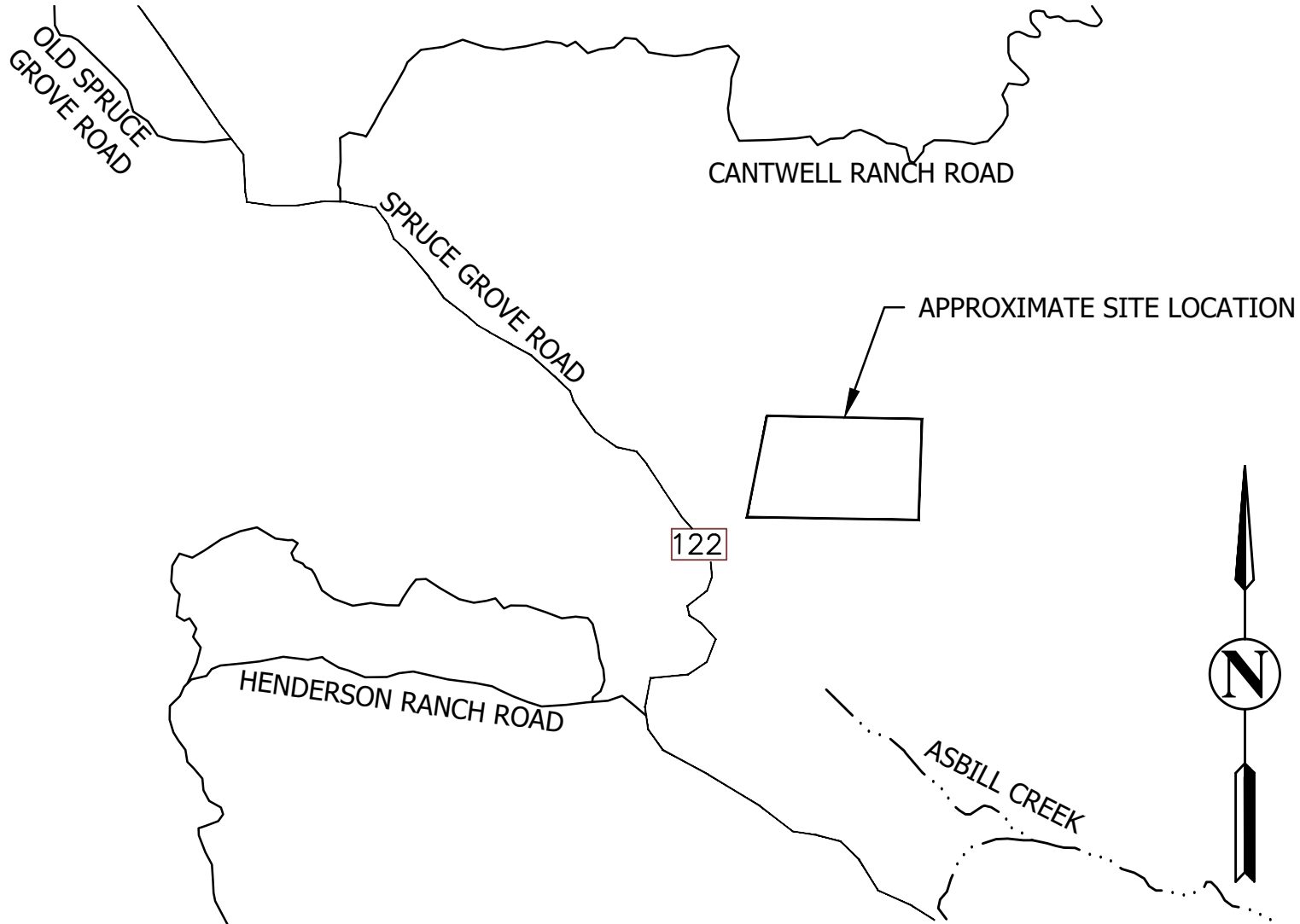
SEPTIC SYSTEM INSPECTION NOTES

1. THE ENGINEER SHALL INSPECT THE SITE AND WEATHER CONDITIONS PRIOR TO CONSTRUCTION OF THE SYSTEM. THE ENGINEER MUST VERIFY DRY AND ACCEPTABLE SOIL CONDITIONS FOR CONSTRUCTION AND DECIDE IF CONDITIONS ARE SUITABLE TO BEGIN CONSTRUCTION.
2. THE ENGINEER SHALL VERIFY WITH THE CONTRACTOR THE PROPER STAKING OF THE SYSTEM PRIOR TO ANY CONSTRUCTION. THE SYSTEM DETAILS, CONFIGURATION, LOCATION, CONTOUR, PERCOLATION AREA, EXPANSION AREA, ETC. SHALL BE VERIFIED.
3. THE CONTRACTOR SHALL NOTIFY THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION A MINIMUM OF 24 HOURS IN ADVANCE OF WHEN CONSTRUCTION IS TO BEGIN AND CERTIFY THAT THE SOIL CONDITIONS ARE ACCEPTABLE FOR CONSTRUCTION PURPOSES AND THAT THE STAKING OF THE SYSTEM HAS BEEN ACCOMPLISHED AND CERTIFIED.
4. ALL MEETINGS AND INSPECTIONS SHALL BE SCHEDULED WITH THE DESIGNING ENGINEER A MINIMUM OF 48 HOURS IN ADVANCE. THESE SHALL INCLUDE AS A MINIMUM:
 - A. PRE-CONSTRUCTION CONFERENCE.
 - (1) SOIL MOISTURE AT THE APPROPRIATE DEPTHS ARE NOT SO HIGH AS TO HAVE THE SOIL SMEAR OR COMPACT DUE TO CONSTRUCTION ACTIVITIES.
 - (2) IMMINENT WEATHER CONDITIONS APPEAR THAT THEY WILL NOT CREATE UNSUITABLE SOIL MOISTURE CONDITIONS DURING THE COURSE OF CONSTRUCTION.
 - (3) LAYOUT AND STAKING OF THE PRIMARY SYSTEM BASAL AREA, DISTRIBUTION BED AND THE RESERVE AREA BOUNDARY TO SUBSTANTIALLY CONFORM TO THE APPROVED CONSTRUCTION PLANS.
 - B. INTERIM INSPECTION, PERFORMED PRIOR TO COVERING ANY ELEMENTS OF THE SYSTEM. VERIFY BY VISUAL INSPECTION AND OPERATION OF THE SYSTEM. A JOINT INSPECTION BY THE ENGINEER, THE CONTRACTOR AND THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION IS REQUIRED. INSPECTION SHALL INCLUDE:
 - (1) LINE AND GRADE OF ALL EXCAVATIONS AND FILLS AS APPLICABLE.
 - (2) FUNCTION AND SETTING OF ANY CONTROL DEVICES, INCLUDING BUT NOT LIMITED TO: VALVES, SWITCHES, AND ALARMS.
 - (3) HYDRAULIC TESTING OF ANY PUMP AND DISTRIBUTION SYSTEM TO ASSURE THAT THE PUMP IS ADEQUATE FOR DESIGN FLOWS.
 - (4) ALL THE REMAINING ELEMENTS REQUIRED TO COMPLETE THE SYSTEM SHALL BE ON SITE AT THE TIME FOR VERIFICATION AND APPROVAL BY THE DESIGNER FOR CONFORMANCE WITH THE PLANS AND SPECIFICATIONS.
 - C. FINAL INSPECTION OF COMPLETED SYSTEM AND ALL RELATED ITEMS PER THE CONSTRUCTION DOCUMENTS SHALL BE MADE. A JOINT INSPECTION WITH THE COUNTY OF LAKE ENVIRONMENTAL HEALTH DIVISION MAY BE REQUIRED.
 - (1) THE DESIGNER SHALL VERIFY THAT ALL CONSTRUCTION IS IN GENERAL CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
 - (2) A FINAL LETTER FROM THE ENGINEER TO THE ENVIRONMENTAL HEALTH DEPARTMENT SHALL STATE THAT ALL CONSTRUCTION HAS BEEN COMPLETED, APPROVED AND IS IN CONFORMANCE WITH ALL SPECIFICATIONS.
 - (3) A FINAL INSPECTION BY THE ENVIRONMENTAL HEALTH DIVISION IS ALSO REQUIRED. A CONCURRENT INSPECTION IS REQUIRED WHEN DOSE AND ALARM FLOATS MUST BE SET OR WHEN MAJOR CORRECTIONS WERE REQUIRED AT THE INTERIM INSPECTION.
5. THE ENGINEER, INSTALLER, AND SERVICE PROVIDER WILL BE PRESENT WITH THE ENVIRONMENTAL HEALTH DIVISION STAFF AT THE START UP INSPECTION AFTER THE #189 ELECTRICAL INSPECTION IS COMPLETED.

SEPTIC PLANS
STANDARD DISTRIBUTION
ALVAREZ FARMS LLC
12990 SPRUCE GROVE ROAD
LOWER LAKE, CA 95457
APN# 012-067-040



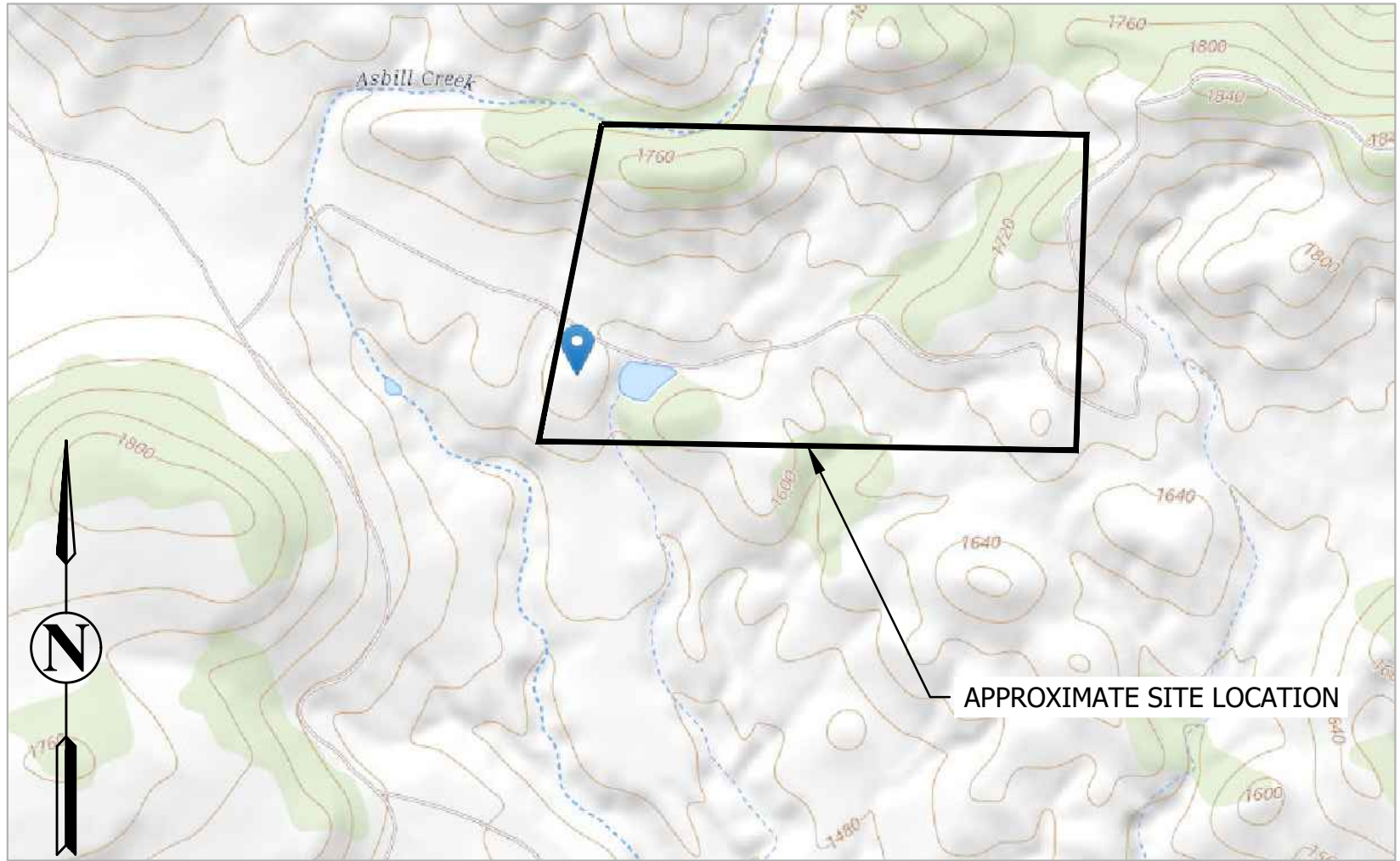
ASSESSOR'S PARCEL MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

SHEET INDEX

- C1.0 COVER SHEET
- C1.1 OVERALL SITE MAP
- C1.2 SEPTIC PLAN - DETAILS
- C1.3 DETAILS



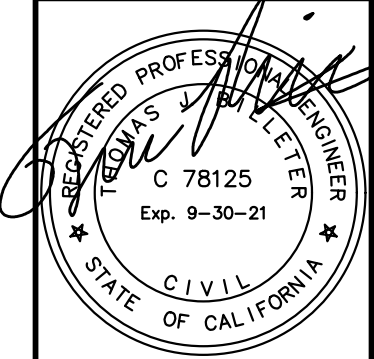
USGS QUAD MAP
NOT TO SCALE

REV.	DESCRIPTION	BY	DATE

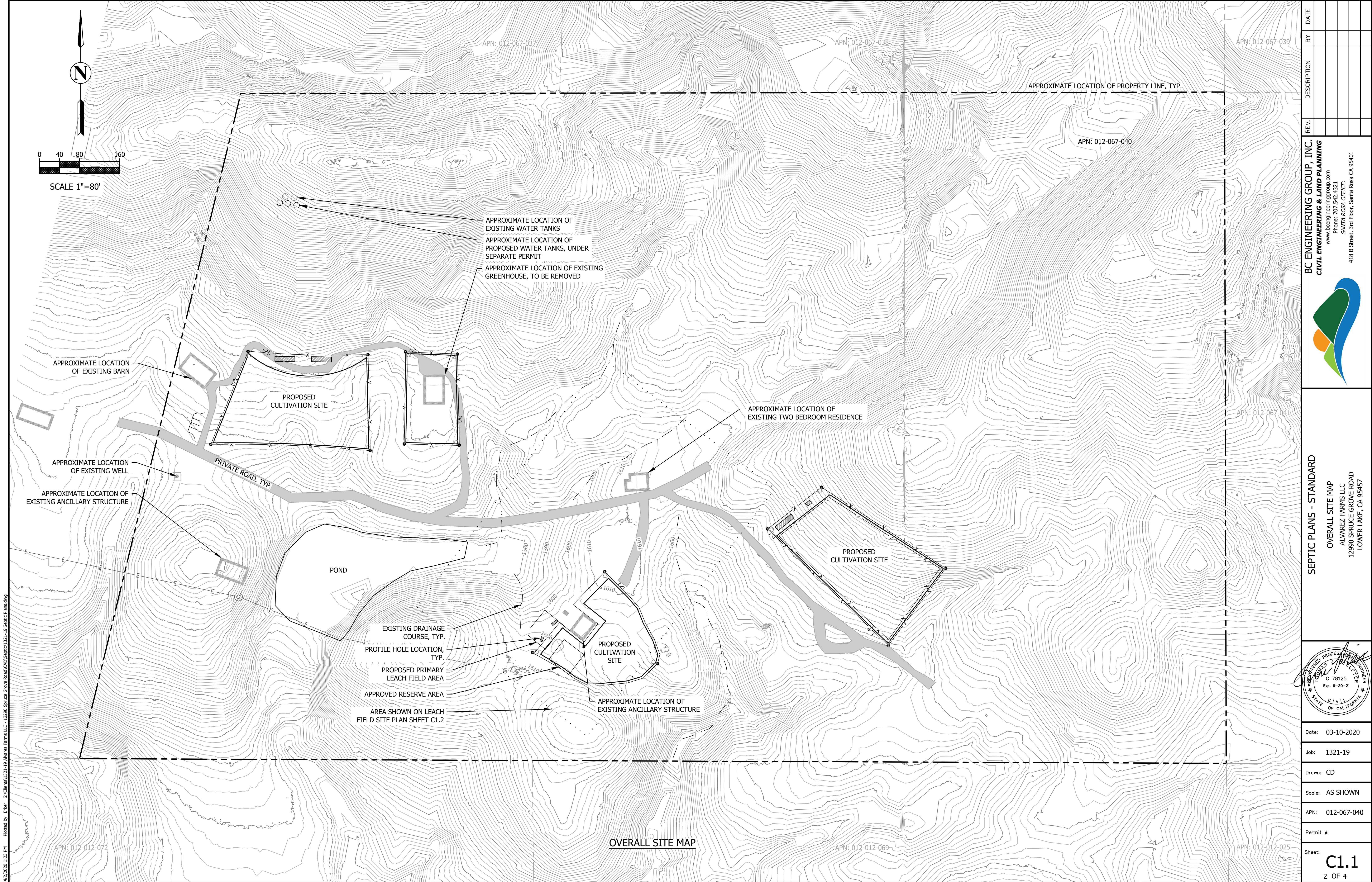
BC ENGINEERING GROUP, INC.
CIVIL ENGINEERING & LAND PLANNING
www.bceengineeringgroup.com
Phone: 707.542.4321
SANTA ROSA OFFICE:
418 B Street, 3rd Floor, Santa Rosa, CA 95401



SEPTIC PLANS - STANDARD
COVER SHEET
ALVAREZ FARMS LLC
12990 SPRUCE GROVE ROAD
LOWER LAKE, CA 95457



Date:	03-10-2020
Job:	1321-19
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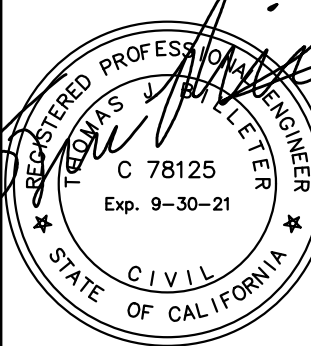


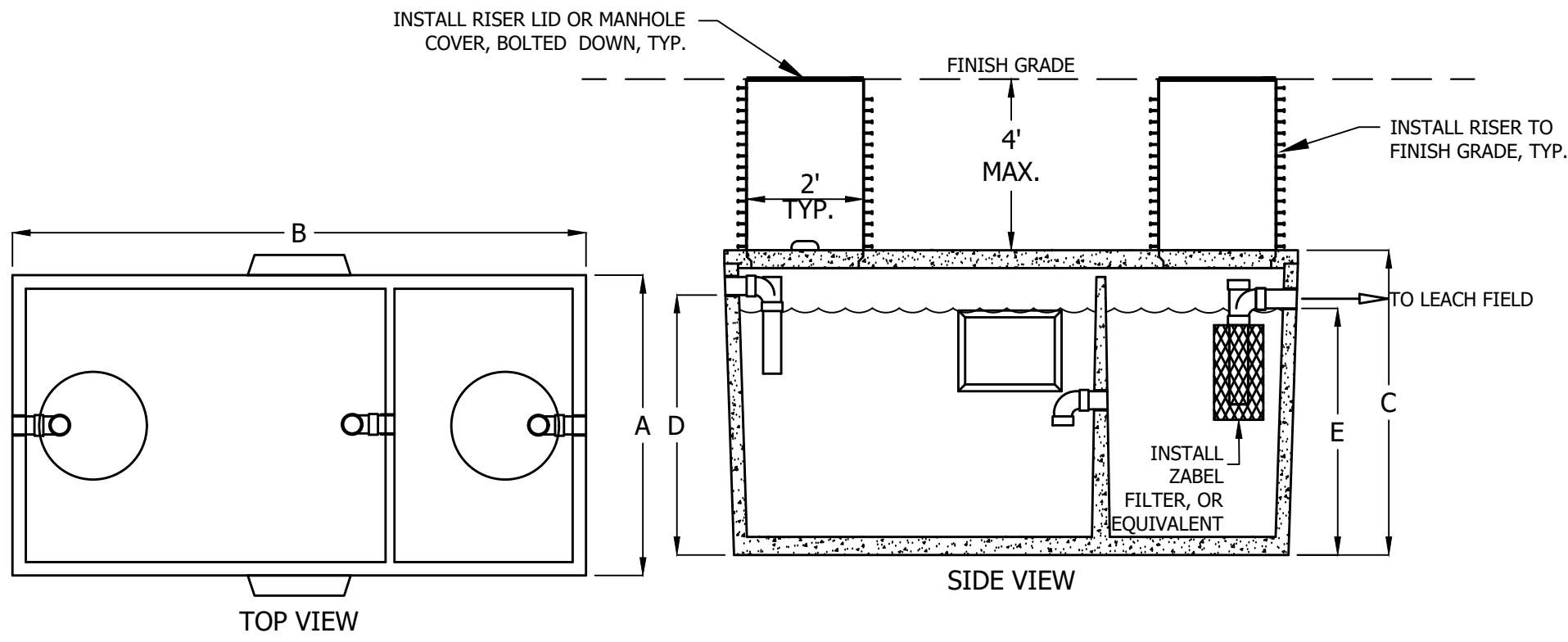
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REV.	DESCRIPTION	BY	DATE

BC ENGINEERING GROUP, INC. CIVIL ENGINEERING & LAND PLANNING www.bceengineeringgroup.com Phone: 707.542.4321 SANTA ROSA OFFICE: 418 B Street, 3rd Floor, Santa Rosa, CA 95401	
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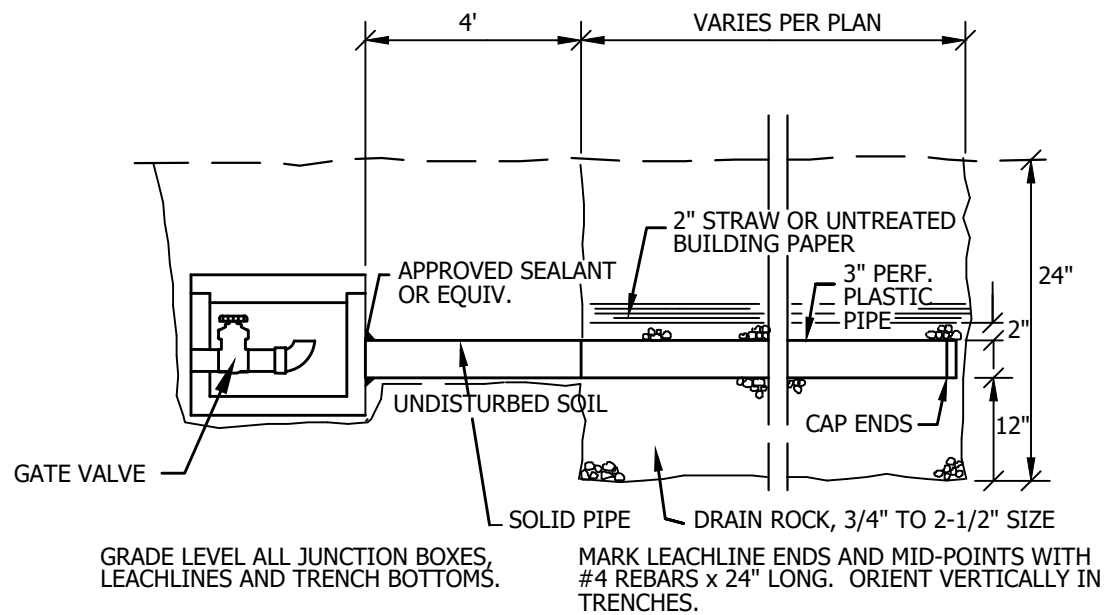
SEPTIC PLANS - STANDARD	OVERALL SITE MAP ALVAREZ FARMS LLC 12990 SPRUCE GROVE ROAD LOWER LAKE, CA 95457
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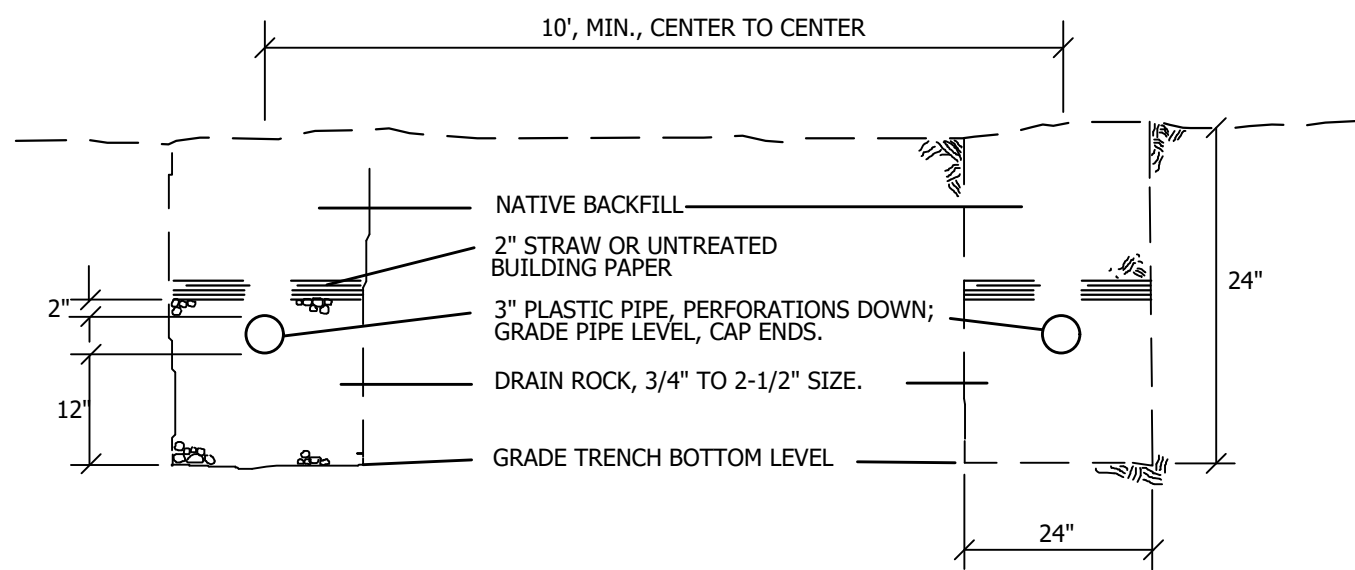


TANK SIZE	DIMENSIONS				
	A	B	C	D	E
1,000 GALLON	61"	98"	68"	58"	55"

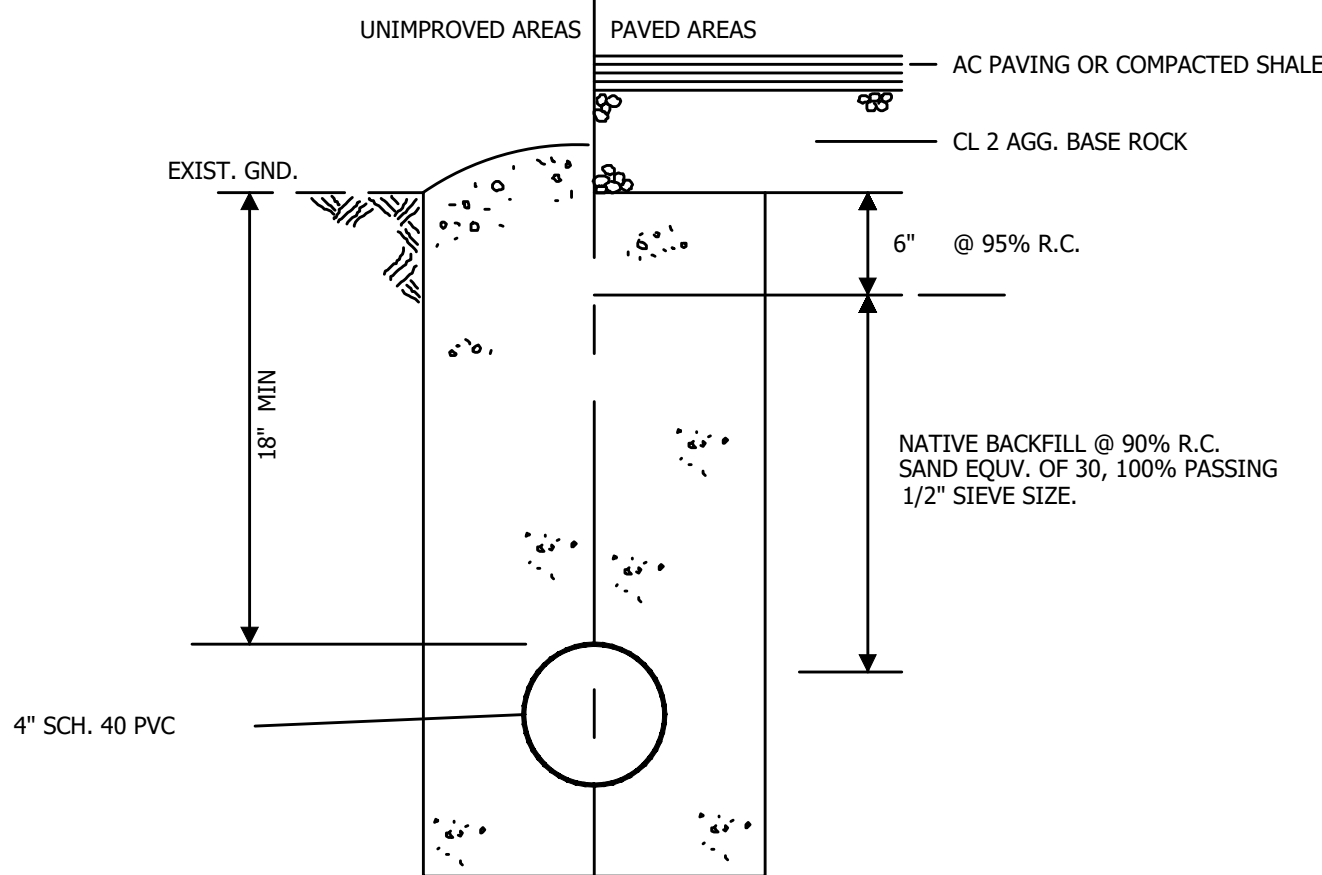
DIMENSIONS PROVIDED BY SELVAGE CONCRETE
SEPTIC TANK DETAIL
NTS



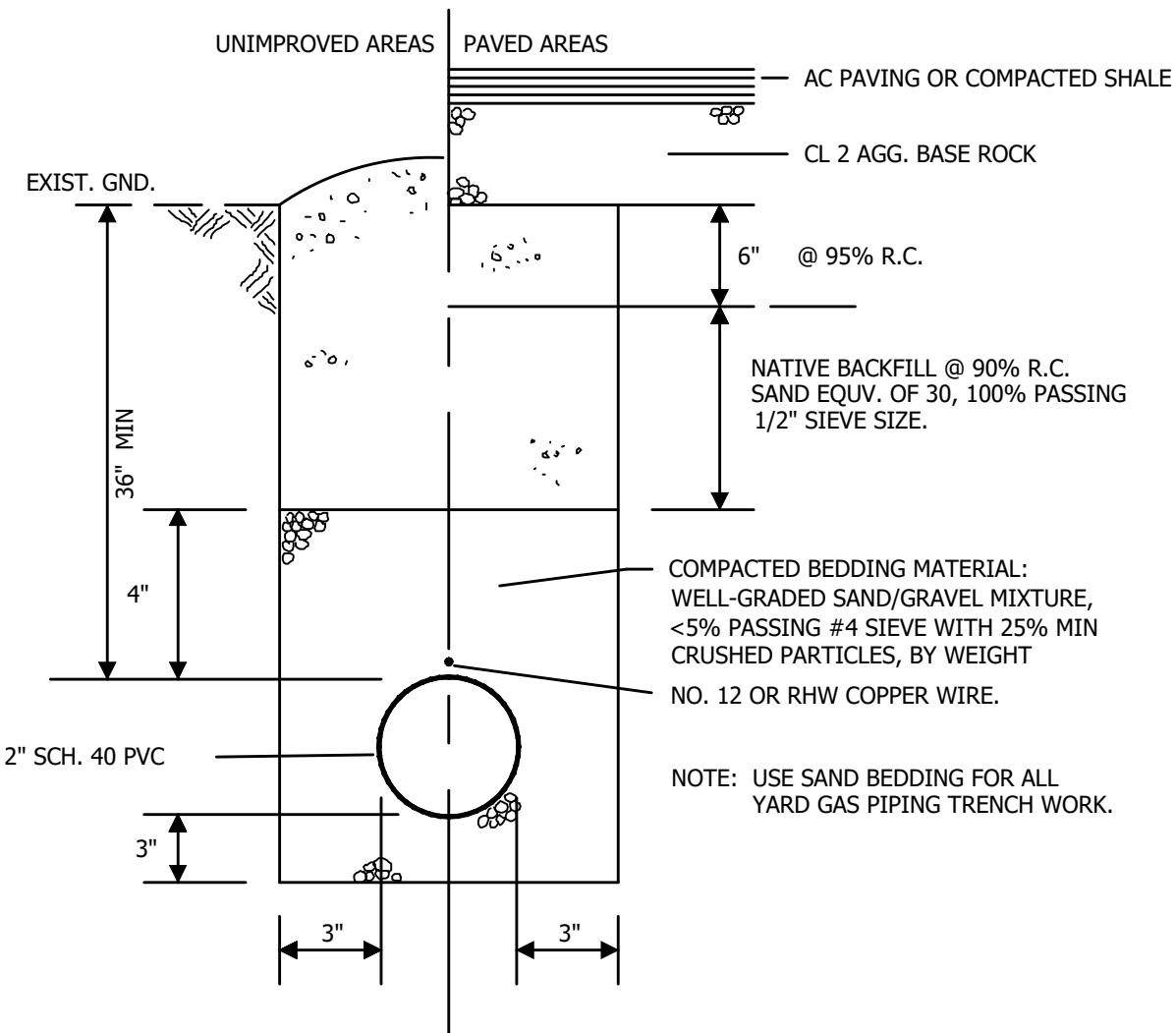
PROFILE LEACHLINE
NTS



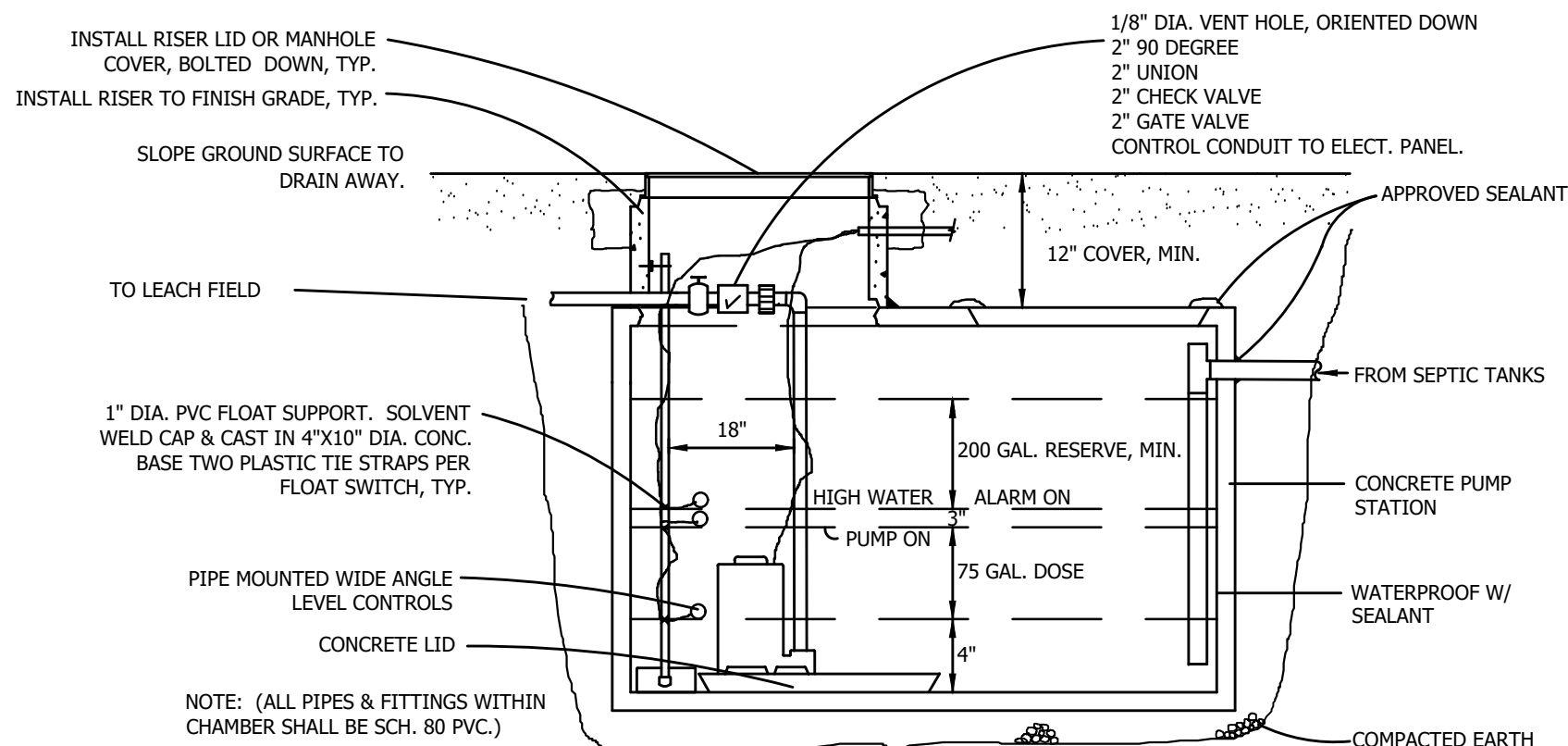
TYPICAL LEACHLINE SECTION
NTS



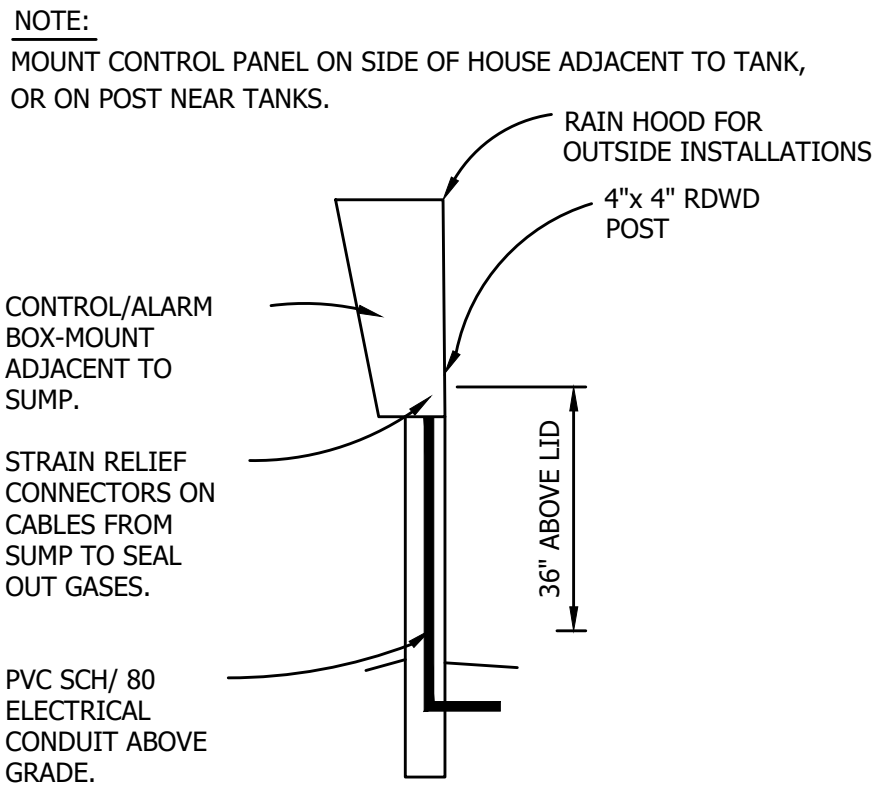
GRAVITY LINE TRENCH
NTS



PRESSURE TRANSPORT PIPE TRENCH
NTS



LEACHFIELD DOMESTIC WASTE PUMP STATION
NTS



NOTE:
MOUNT CONTROL PANEL ON SIDE OF HOUSE ADJACENT TO TANK,
OR ON POST NEAR TANKS.

CONTROL/ALARM
BOX-MOUNT
ADJACENT TO
SUMP.

RAIN HOOD FOR
OUTSIDE INSTALLATIONS

4"x 4" RDWD
POST

36" ABOVE LID

STRAIN RELIEF
CONNECTORS ON
CABLES FROM
SUMP TO SEAL
OUT GASES.

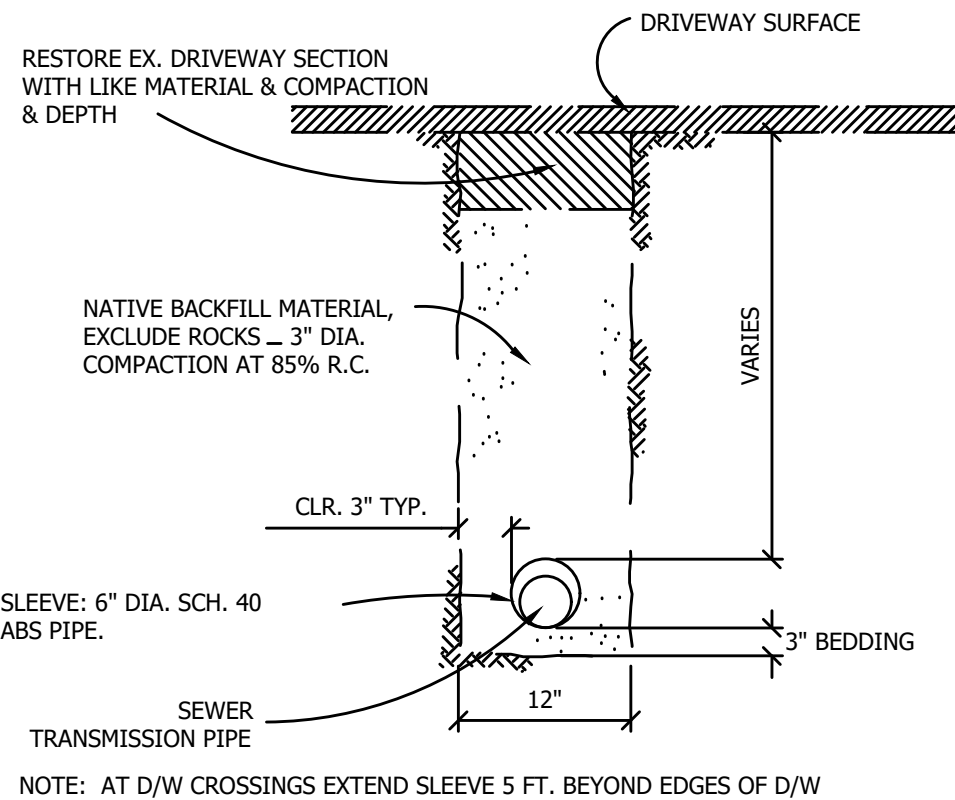
PVC SCH. 80
ELECTRICAL
CONDUIT ABOVE
GRADE.

NOTES:
CONTROL PANEL SHALL BE A NEMA 4X CONTROL BOX W/ INTERIOR PLEXI-GLASS
COVER.

PANEL SHALL HAVE A NON-RESETTABLE DOSE COUNTER.

IF A PHONE LINE IS REQUIRED TO THE CONTROL PANEL, IT SHALL BE
ACTIVATED PRIOR TO FINAL INSPECTION.

OUTSIDE CONTROL PANEL
NTS



**TYPICAL SEWER CROSSING
DRIVEWAYS**
NTS

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