

ROAD STANDARDS:

- ROADWAY SURFACE PROVIDES UNOBSTRUCTED ACCESS TO CONVENTIONAL DRIVE VEHICLES INCLUDING SEDANS AND FIRE ENGINES USING COUNTY ROAD CATEGORY 2 STANDARD FOR SURFACING TYPE.
- ROADWAY TURNOUTS (WHERE REQUIRED) ARE 10' WIDE AND 80' LONG AND TAPERED 25 FEET FROM BOTH ENDS.
- ROADWAY STRUCTURES (BRIDGES AND CULVERTS) BUILT TO CARRY MINIMUM LOAD AS REQUIRED IN CALIFORNIA VEHICLE CODE SEC. 35550 (40,000 LBS.) AND COMPLIES WITH THE FOLLOWING STANDARDS.
 - MINIMUM 15' VERTICAL CLEARANCES AND DESIGNED IN CONFORMANCE WITH THE COUNTY ROADWAY DESIGN MANUAL.
 - SIGNING REFLECTS CAPABILITY OF EACH BRIDGE FOR WEIGHT, CLEARANCE, SINGLE LANE ACCESS, OR OTHER LIMITATIONS, UNLESS SIGNING WAIVED BY THE DIRECTOR OF PUBLIC WORKS PER SECTIONS 112-9 OF H.C.C.
 - ONE LANE BRIDGE HAS UNOBSTRUCTED VISIBILITY FROM BOTH ENDS AND INTERVISIBLE TURNOUTS AT EACH END.
 - "FLATCAR" BRIDGE HAS ROADWAY SURFACE OF NOT LESS THAN 9' AND MEETS VISIBILITY REQUIREMENTS OF ONE LANE BRIDGE.

DRIVEWAY AND GATES:

- DRIVEWAYS MEET MINIMUM ROAD STANDARDS DESCRIBED ABOVE.
- DRIVEWAYS LESS THAN 1320' LONG ARE 10' WIDE AND HAVE 15' MINIMUM VERTICAL CLEARANCE AND ARE BUILT TO COUNTY ROAD CATEGORY 1 STANDARD.
- DRIVEWAYS LONGER THAN 1320' ARE 10'-12' WIDE AND HAVE 15' MINIMUM VERTICAL CLEARANCE WITH INTERVISIBLE TURNOUTS AND ARE BUILT TO COUNTY ROAD CATEGORY 2 STANDARD.
- DRIVEWAYS EXCEEDING 150' IN LENGTH BUT LESS THAN 800' HAVE A TURNOUT NEAR THE MIDPOINT.
- DRIVEWAYS LONGER THAN 800' HAVE TURNOUTS AT INTERVISIBLE LOCATIONS AT APPROXIMATELY 400' INTERVALS.
- DRIVEWAYS HAVE MAXIMUM GRADE MEETING STANDARD FOR COUNTY ROAD CATEGORY 1: 7% - 12% (NORMAL); 11% - 18% (TOLERABLE). GRADE IN EXCESS OF 16% MUST DEMONSTRATE CONFORMANCE WITH COUNTY ROADWAY DESIGN MANUAL.
- DRIVEWAYS HAVE MINIMUM CURVE RADIUS MEETING STANDARD FOR COUNTY ROAD CATEGORY 1: 120' (NORMAL); 50' (TOLERABLE). CURVE RADIUS LESS THAN 50' MUST DEMONSTRATE CONFORMANCE WITH COUNTY ROADWAY DESIGN MANUAL.
- ALL GATES AT LEAST 2' WIDER THAN THE LANES SERVING THE GATE AND ALLOW A VEHICLE TO STOP WITHOUT BLOCKING TRAFFIC.
- GATES PROVIDING ACCESS FROM A ROAD TO A DRIVEWAY ARE LOCATED AT LEAST 30' FROM THE ROADWAY EXCEPT AS PROVIDED BELOW.
- GATES LESS THAN 30' FROM THE ROADWAY ARE PERMITTED WHEN TURNOUTS ARE CONSTRUCTED NEXT TO THE TRAVEL LANES WITH SAFE TURNING MOVEMENTS AND VISIBILITY WHEN APPROACHING FROM EITHER DIRECTION OF TRAVEL.
- ONE-WAY ROADS ACCESSING GATES HAVE TURNAROUND WITH 40' RADIUS MINIMUM.

DOMESTIC EMERGENCY WATER SUPPLY SYSTEM

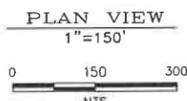
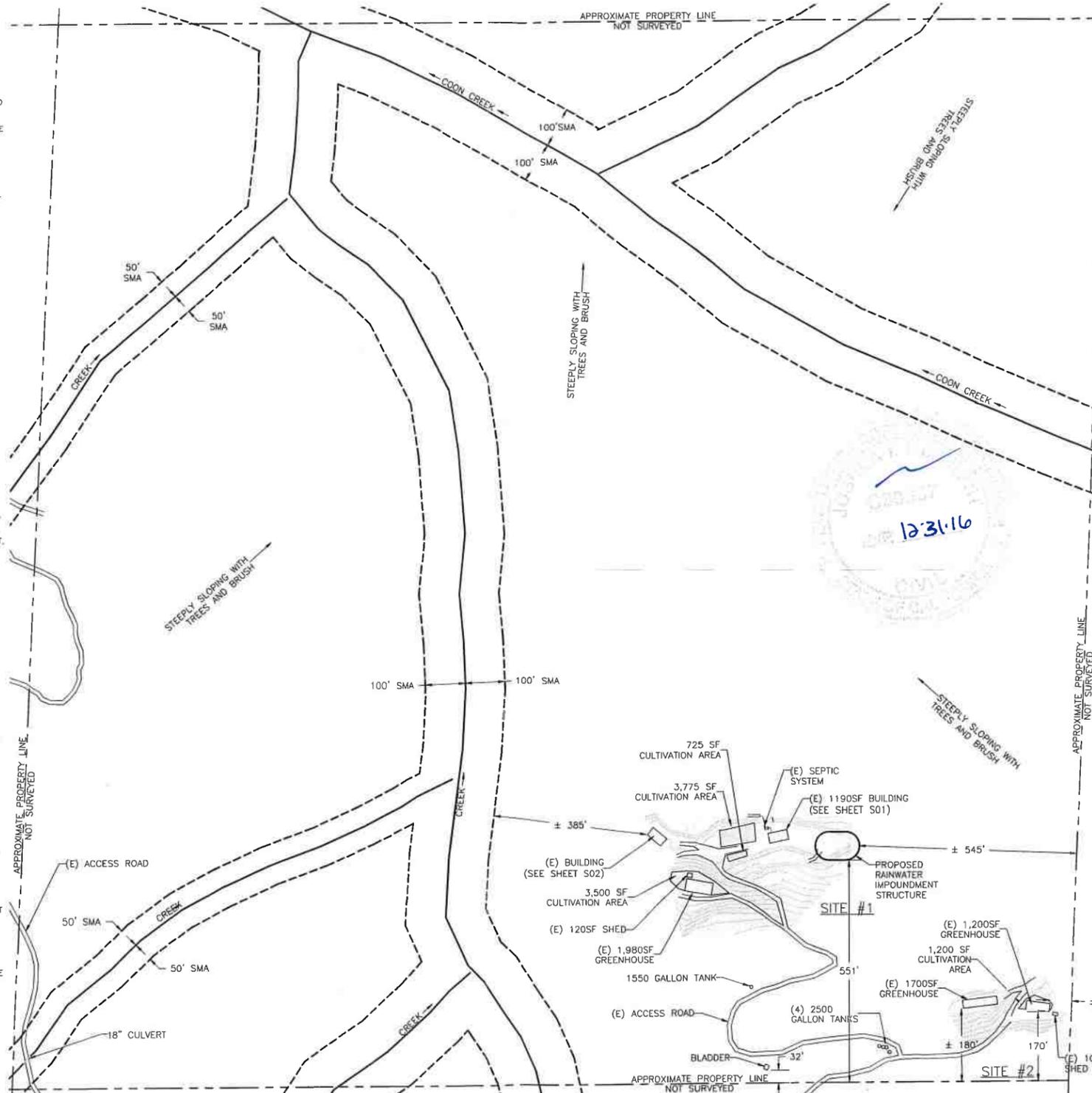
- THE MINIMUM EMERGENCY WATER STORAGE VOLUME OF 2,500 GALLONS EASILY AVAILABLE FOR FIRE USE.
- THE EMERGENCY SUPPLY MAY BE SEPARATE FROM THE DOMESTIC SUPPLY OR IT MAY BE SHARED. WHEN SHARED, AND IF THE REFILLING SUPPLY SOURCE (WELL, ETC.) CANNOT KEEP UP WITH THE DAILY DOMESTIC USE; THE AMOUNT STORED SHOULD BE INCREASED SO THAT 2,500 GALLONS ARE AVAILABLE FOR FIRE USE ANY TIME OF DAY.
- THE WATER HYDRANT OR PLACE FOR WATER SUCTION MUST NOT BE FURTHER THAN 1/2 MILE FROM THE DWELLING, OR CLOSER THAN 50 FEET TO THE DWELLING USING ROAD MEASUREMENTS. PARCELS 10 ACRES OR LESS MUST HAVE THE HYDRANT/SUCTION WITHIN 500 FEET; AND IF THIS IS PHYSICALLY IMPOSSIBLE, WITHIN 1,000 FEET.
- ALL HYDRANT AND WATER SUCTION LOCATIONS MUST PROVIDE A ROAD STANDARD TURNOUT OR TURNAROUND.
- ALL WATER SUPPLY HYDRANTS AND SUCTION LOCATIONS MUST BE IDENTIFIED WITH A 3 INCH REFLECTORIZED BLUE DOT LOCATED 3 TO 5 FEET ABOVE THE GROUND ON A POST THAT IS WITHIN 3 FEET OF THE HYDRANT. IF LOCATED OFF A DRIVEWAY, ANOTHER BLUE DOT MUST BE ATTACHED TO THE DRIVEWAY ADDRESS SIGN. ROAD SIGNS STATING "FIRE WATER" ARE AN ACCEPTABLE ALTERNATIVE.
- ALL EXPOSED PLUMBING SHOULD HAVE FREEZE PROTECTION AND CRASH BARRIERS AS NEEDED TO PREVENT DAMAGE.
- ALL PIPES SUPPLYING WATER TO HYDRANTS MUST BE AT LEAST 3 INCHES IN DIAMETER. SMALLER DESIGNS MUST PROVE THEMSELVES ABLE TO PROVIDE A 200 GPM FLOW FROM THE HYDRANT CONNECTION.
- ALL HYDRANTS MUST BE 18 INCHES ABOVE GROUND, AT LEAST 8 FEET FROM FLAMMABLE VEGETATION, AT LEAST 4 FEET FROM THE PARKING SURFACE WHERE THE FIRE EQUIPMENT WILL BE WHEN USING IT AND NO MORE THAN 12 FEET FROM THE PARKING SURFACE.
- ALL HYDRANTS MUST HAVE A 2-1/2 INCH MAKE NATIONAL HOSE CONNECTION WITH CAP.
- ALL HYDRANTS/VALVES AND CONNECTIONS MUST BE MADE OF BRASS OR OTHER CORROSION RESISTANT MATERIAL.
- A WET HYDRANT USED WITH A GRAVITY SUPPLY OR PRESSURE SYSTEM MUST HAVE A 2-1/2 INCH VALVE.
- A DRY HYDRANT USED FOR WATER SUCTION DOES NOT NEED A VALVE, BUT DOES REQUIRE A STRAINER (PERFORATED PIPE LENGTH) AT THE END OF THE SUCTION PIPE. THE STRAINER MUST BE AT LEAST 3 FEET LONG.
- WHERE A PUMP IS RELIED UPON TO DELIVER WATER TO THE HYDRANT (NOT GRAVITY AND NOT SUCTION); IT MUST DELIVER 200 GALLONS PER MINUTE TO THE HYDRANT. IF IT IS AN ELECTRICALLY POWERED PUMP, IT MUST HAVE A FUELED ENGINE BACKUP (OR GENERATOR). ALSO, A STRAINER IS REQUIRED.
- WHERE GRAVITY IS USED TO GET THE WATER TO THE HYDRANT, THE SOURCE (TANK) MUST AT LEAST BE HIGHER THAN THE HYDRANT SO THAT ALL 2,500 GALLONS CAN DRAIN OUT WITHOUT SUCTION. ALSO, THE TANK SHOULD BE NO MORE THAN 600 FEET ABOVE THE HYDRANT; OR HAVE A PRESSURE REDUCER RESTRICTING TO 250 PSI.
- WHERE SUCTION IS NEEDED TO GET THE WATER UP OUT OF A SOURCE (BY HOSE, DRY HYDRANT OR PUMP) FROM A NATURAL POND, UNDERGROUND TANK, SWIMMING POOL, ETC., THE END OF THE HOSE OR DRY HYDRANT PIPE STRAINER MUST HAVE 2 FEET OF WATER ABOVE IS AT ALL TIMES TO PREVENT CAVITATION (A VORTEX FUNNEL THAT ALLOWS AIR TO BE SUCKED IN). ALSO, THE END OF THE SUCTION HOSE OR DRY HYDRANT PIPE STRAINER MUST BE HELD 1 FOOT OFF THE BOTTOM OF STORAGE THAT CAN ACCUMULATE DEBRIS. THIS MEANS THAT THE BOTTOM 3 FEET OF STORAGE AT THE SUCTION POINT IS UNUSABLE AND AT LEAST 2,500 GALLONS MUST BE AVAILABLE 3 FEET ABOVE THE BOTTOM WHEN THE WATER IS AT THE LOWEST LEVEL OF THE YEAR.
- WHERE SUCTION THROUGH A DRY HYDRANT PIPE IS USED TO GET WATER UP TO A FIRE ENGINE, THE LEVEL WHERE THE SUCTION PIPE STRAINER IS MUST BE NO MORE THAN 15 FEET LOWER THAN THE HYDRANT CONNECTION.
- WHERE A FIRE ENGINE SUCTION HOSE IS NEEDED TO GET WATER (NO DRY HYDRANT), THE LEVEL WHERE THE STRAINER END OF THE SUCTION HOSE MUST GO CAN BE NO MORE THAN 10 FEET LOWER THAN THE SURFACE WHERE THE ENGINE PARKS. ALSO, THE TOTAL REACH FROM THE EDGE OF THE PARKING SURFACE TO WHERE THE END OF THE SUCTION HOSE MUST BE CAN REQUIRE NO MORE THAN 15 FEET OF SUCTION HOSE AND NO SHARP BENDS. THIS MEANS THAT A TACK WITH NO DRY HYDRANT WILL HAVE TO BE BELOW THE PARKING AREA, OR HAVE A LOW SIDE WALL, BECAUSE IT COULD TAKE MORE THAN 15 FEET OF HOSE TO REACH UP TO THE TOP OF A TANK AND THEN BACK TO THE BOTTOM; AND COULD REQUIRE A VERY SHARP BEND.

GENERATOR REQUIREMENTS:

- THE NOISE PRODUCED BY A GENERATOR USED FOR CANNABIS CULTIVATION SHALL NOT BE AUDIBLE BY HUMANS FROM NEIGHBORING RESIDENCES. THE DECIBEL LEVEL FOR GENERATORS AT THE PROPERTY LINE SHALL BE NO MORE THAN 60 DECIBELS. WHERE APPLICABLE, SOUND LEVELS MUST ALSO SHOW THAT THEY WILL NOT RESULT IN THE HARBORING OF HARLEquin MURRELET OR SPOTTED OWL SPECIES, WHICH GENERATOR USE IS TO OCCUR IN THE VICINITY OF POTENTIAL HABITAT. CONFORMANCE WILL BE EVALUATED USING CURRENT AUDITORY DISTURBANCE GUIDANCE PREPARED BY THE UNITED STATE FISH AND WILDLIFE SERVICE, AND FURTHER CONSULTATION WHERE NECESSARY.
- NOISE SHELTER WILL BE CONSTRUCTED FOR MOBILE GENERATORS. SHELTER WILL BE CONSTRUCTED FROM LUMBER FRAMING, PLYWOOD PROTECTION, AND FIRE RESISTANT INSULATION IF NECESSARY.
- STORAGE OF FUEL FUEL SHALL BE STORED AND HANDLED IN COMPLIANCE WITH APPLICABLE STATE AND LOCAL LAWS AND REGULATIONS, AND IN SUCH A WAY THAT NO SPILLAGE OCCURS.

SITE #1	
CULTIVATION TYPE	AREA (SF)
GREENHOUSE(S)	1980SF
OUTDOOR	8000SF
WATER STORAGE CAPACITY TANKS	(1) 1,500
RAINWATER IMPOUNDMENT STRUCTURE	200,000 GALLONS

SITE #2	
CULTIVATION TYPE	AREA (SF)
GREENHOUSE(S)	2,900SF
OUTDOOR	1,000SF
WATER STORAGE CAPACITY TANKS	(4) 2,500 GALLON



GENERAL NOTES

WATER: ONSITE
 WASTEWATER: ONSITE
 POWER: PRIVATE
 PHONE: NONE
 CREEKS/STREAMS: COON CREEK
 TREES TO BE REMOVED: NONE
 GRADING: SEE GRADING PLAN

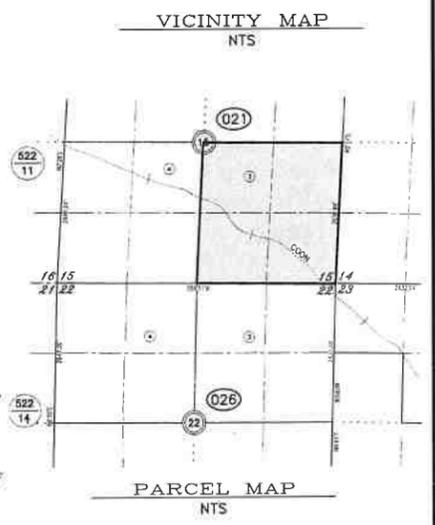
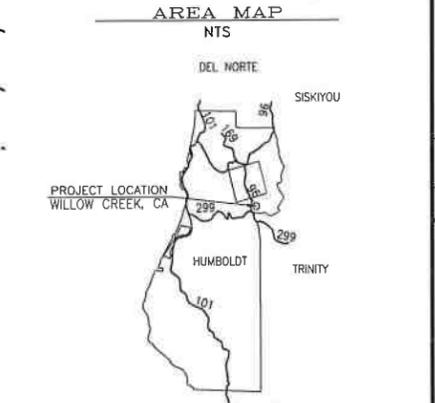
SRA REQUIREMENTS

PROVIDE ADEQUATE WATER STORAGE AND DELIVERY AS OUTLINED BY SRA ORDINANCE AND CALFIRE REQUIREMENTS

PROVIDE ADEQUATE TURN AROUND AND PULLOUTS AS OUTLINED BY SRA ORDINANCE REQUIREMENTS AND CALFIRE REQUIREMENTS

PLOT PLAN
APN: 523-021-003
 FOR

COON CREEK, WILLOW CREEK
 PO BOX 1174
 BLUE LAKE, CA 96052



DATE	REV	DESCRIPTION
9/20/16	A	PRELIMINARY DESIGN

TIM BUSMAN
 APN: 523-021-003
 COON CREEK ROAD, WILLOW CREEK
 P.O. BOX 1174
 BLUE LAKE CA 96052
PLOT PLAN
 HUMBOLDT COUNTY, CALIFORNIA

DRAWN BY: ERIC KEYS
 DESIGNED BY: A. DOMINICK
 CHECKED BY: J. MCKNIGHT
 APPROVED BY: TVCE

DATE OF ISSUE: OCTOBER 2016

SCALE: AS SHOWN

PROJECT NO: 441

DRAWING NO: C01

GRADING NOTES:

- ALL EARTHWORK, INCLUDING BUT NOT LIMITED TO, SITE CLEARING, GRUBBING, STRIPPING, AND GRADING WILL BE CONDUCTED DURING DRY WEATHER CONDITIONS, (TYPICALLY APRIL 15 TO OCTOBER 15)
- STRIP AND REMOVE ALL TOPSOIL AND VEGETATION FROM THE PROJECT AREA, AND FOR A MINIMUM OF THREE FEET TO THE OUTSIDE OF THE WORKING AREA.
- ANY UNDOCUMENTED FILL SOILS, FINE-GRAINED RESIDUAL SOILS, AND ANY OTHER DEBRIS ENCOUNTERED AT OR BELOW THE EXISTING GROUND SURFACE SHALL BE REMOVED AT THE LOCATIONS RECEIVING ANY POTENTIAL FILLS.
- THE SITE SHOULD BE GRADED TO PROVIDE ADEQUATE DRAINAGE SUCH THAT NO WATER IS ALLOWED TO POND ANYWHERE ON THE SITE OR MIGRATE BENEATH FUTURE DEVELOPMENTS.
- ALL FILL MATERIAL SHALL BE PLACED IN HORIZONTAL LIFTS NOT TO EXCEED EIGHT INCHES (8") IN DEPTH AND SHALL BE COMPACTED MECHANICALLY.
- ALL FILL MATERIAL SHALL BE FREE OF ORGANICS, ROCKS LARGER THAN 3", WOODY DEBRIS, ROOTS, AND INORGANIC MATERIAL.
- ALL FILL MATERIAL SHALL HAVE A UNIFORM MOISTURE CONTENT AT OR NEAR OPTIMUM MOISTURE CONTENT AS DETERMINED BY TESTING AND APPROVED BY THE ENGINEER.
- NON-STRUCTURAL FILL SHALL BE COMPACTED MECHANICALLY TO A FIRM UNYIELDING SURFACE AS APPROVED BY THE ENGINEER.
- COMPACTION TESTING WILL BE DETERMINED AT THE ENGINEER'S DISCRETION.
- IT IS RECOMMENDED THAT ANY MATERIAL PROPOSED FOR STRUCTURAL FILL MATERIAL TO SUPPORT ANY FOUNDATIONS OR STRUCTURAL BUILDING ELEMENT AND ASSOCIATED UTILITIES BE COMPACTED AS OUTLINED IN THE SOILS REPORT.
- ALL FILL SLOPES SHALL BE TO A SMOOTH AND EVEN GRADE, SHALL BE SURFACE TRACKWALKED, AND FINAL GRADES NOT TO EXCEED 1.5:1 (h:v).
- SUFFICIENT TESTING AND INSPECTION SHOULD BE PERFORMED TO MONITOR THE SUITABILITY OF FILL MATERIALS AND ASSURE COMPLIANCE WITH THE RECOMMENDED COMPACTION STANDARDS.
- ENGINEER TO PROVIDE CERTIFICATION OF EXISTING FILL, BOTH STRUCTURAL AND NON-STRUCTURAL FILL, THAT IT MEETS THE REQUIRED COMPACTION STANDARDS.

CLEARING, GRUBBING, & DEMOLITION NOTES:

- TREES SCHEDULED TO BE REMOVED SHALL BE REMOVED COMPLETELY INCLUDING STUMPS, ROOTS, BRANCHES, WOODY DEBRIS, BARK, AND FLESH. TREES SHALL BE REMOVED FROM THE SITE AND DEPOSITED IN LOCATIONS DESIGNATED BY THE OWNER.
- VEGETATION AND WOODY DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
- ALL GENERATED AND ACCUMULATED CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE LAWS AND REGULATIONS.
- ALL AREAS WITH GENERATED VOIDS FROM DEMOLITION ACTIVITIES SHALL BE BACKFILLED WITH NATIVE SOIL TO FINISH GRADE IN 1' MAXIMUM VERTICAL LIFTS SUFFICIENTLY COMPACTED TO ELIMINATE SUBSIDENCE.
- DUST CONTROL SHALL BE MAINTAINED DURING DEMOLITION PRACTICES.
- TRACKING OF MATERIAL FROM THE SITE ONTO EXISTING ROADWAYS WILL NOT BE TOLERATED. TEMPORARY CONSTRUCTION SITE ENTRANCES SHOULD BE BUILT AT POINTS OF INTERSECTION TO EXISTING ROADWAYS AND PRACTICES SHOULD BE IMPLEMENTED TO REMOVE CONSTRUCTION MATTER FROM VEHICLES AND EQUIPMENT PRIOR TO LEAVING THE CONSTRUCTION SITE.
- EROSION CONTROL MEASURES SHALL BE IMPLEMENTED FOR THE SITE AS SOON AS PRACTICAL AND SHALL BE IN PLACE PRIOR TO EXECUTION OF MAJOR DEMOLITION OPERATIONS.

APPROVAL NOTES:

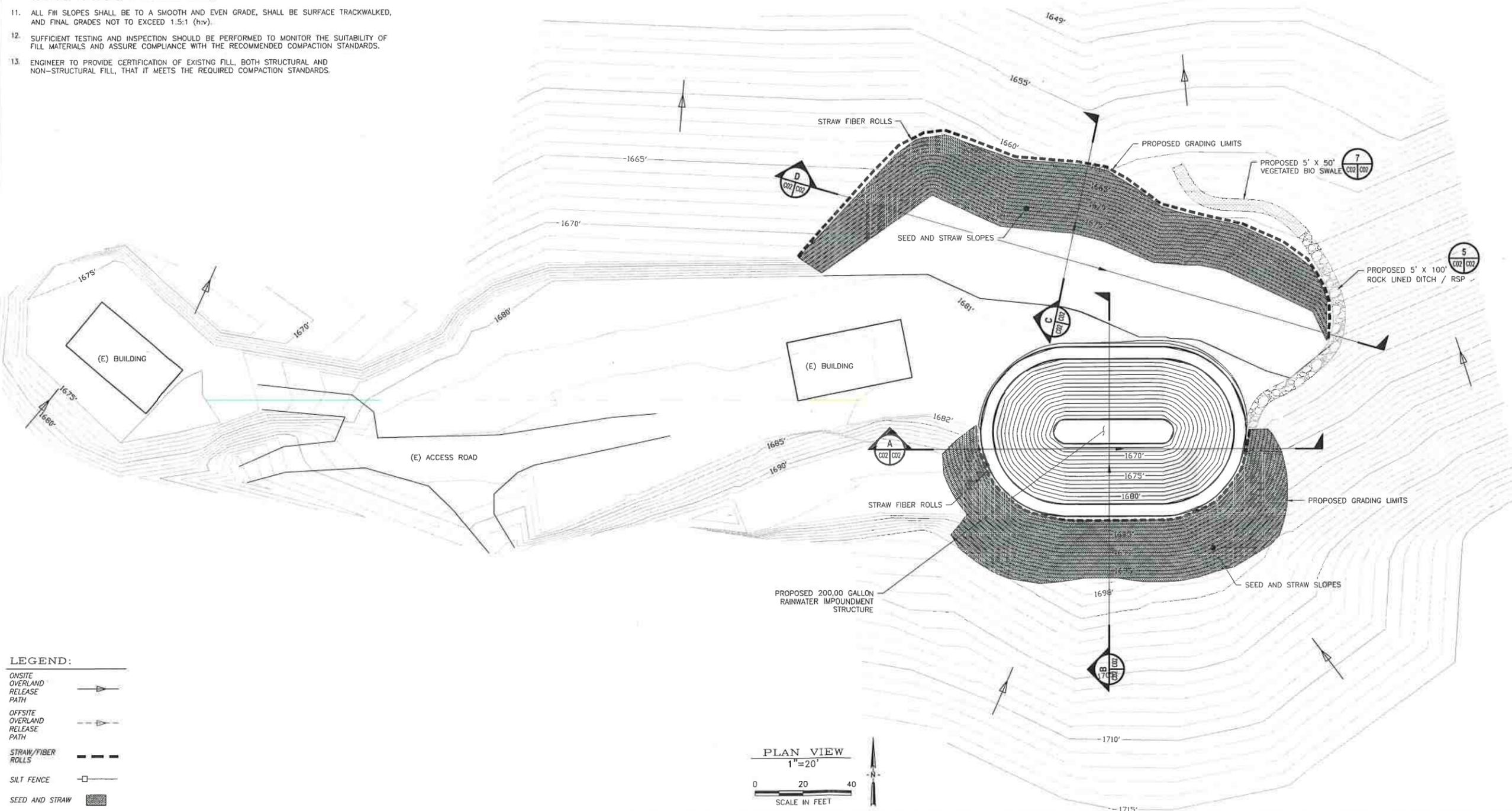
- THE ENGINEER OF RECORD SHALL SUBMIT A LETTER OF CERTIFICATION TO THE HUMBOLDT COUNTY BUILDING DEPARTMENT CONFIRMING THE PROJECT MEETS ALL THE REQUIREMENTS OF THE APPROVED SOILS REPORT, GRADING PLAN, AND THE EROSION AND SEDIMENT PLAN.

EARTHWORK QUANTITIES:

CUT (CY): 2,600
 FILL (CY): 2,600
 NOTE:
 CUT AND FILL QUANTITIES ONSITE TO BE PERMANENT

GRADING ACTIVITY:

TOTAL ACREAGE: 161.0± Ac
 ACRES DISTURBED: 0.64± Ac
 ACRES UNDISTURBED: 160.36± Ac
 PERCENTAGE OF UNDISTURBED AREA: 99.6%



LEGEND:

ONSITE OVERLAND RELEASE PATH	→
OFFSITE OVERLAND RELEASE PATH	→
STRAW/FIBER ROLLS	---
SILT FENCE	□
SEED AND STRAW	▨

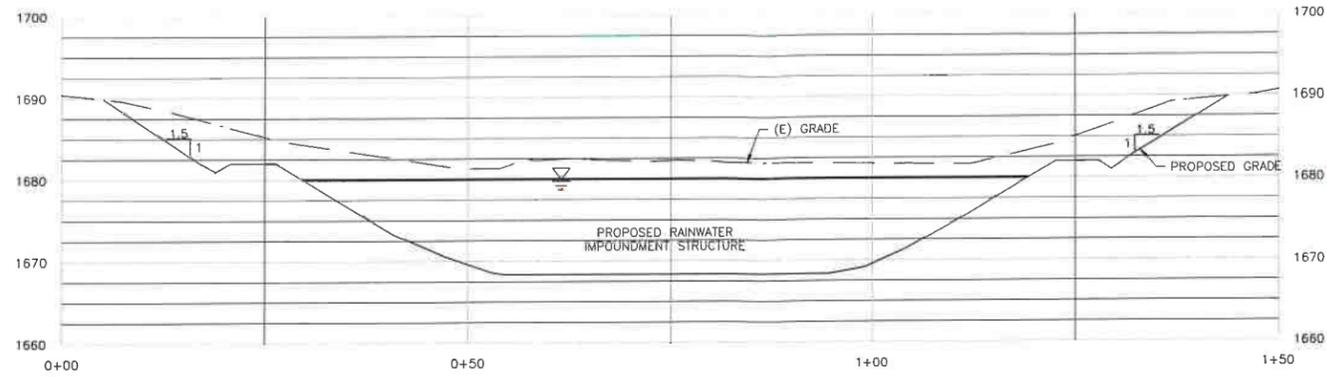
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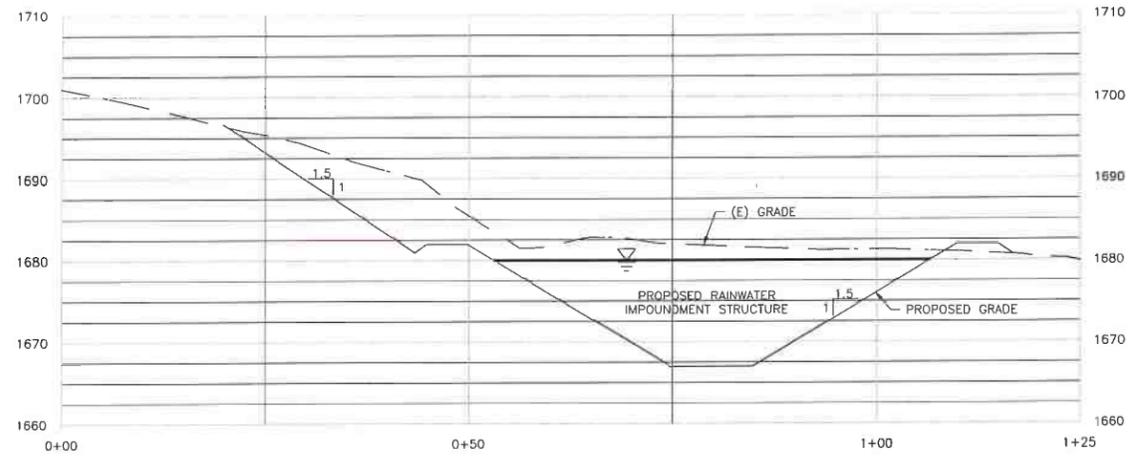
REV	DATE	DESCRIPTION	DESIGNED BY	CHECKED BY	APP. BY
1	10/20/16	PRELIMINARY DESIGN			

TIM BUSMAN
 ARN: 523-0211
 COON CREEK, CALIFORNIA
 P.O. BOX 1174
 BLUE LAKE, CA 96052
GRADING PLAN
 HUMBOLDT COUNTY, CALIFORNIA

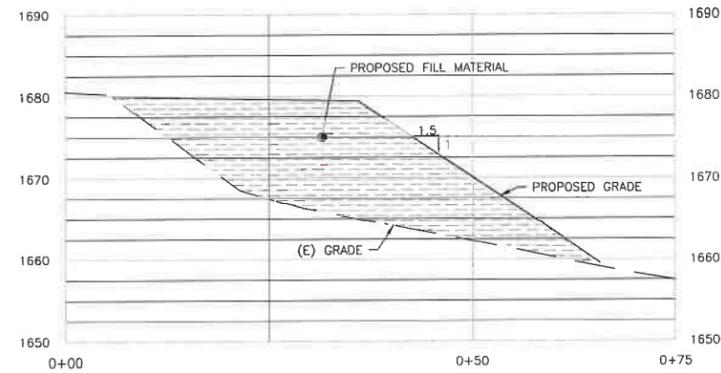
DRAWN BY: ERIC KEYS	DATE OF ISSUE: OCTOBER 2016
DESIGNED BY: A. DOMINICK	SCALE: AS SHOWN
CHECKED BY: J. MCKNIGHT	PROJECT NO: 441
APPROVED BY: TVCE	DRAWING NO: C02.0



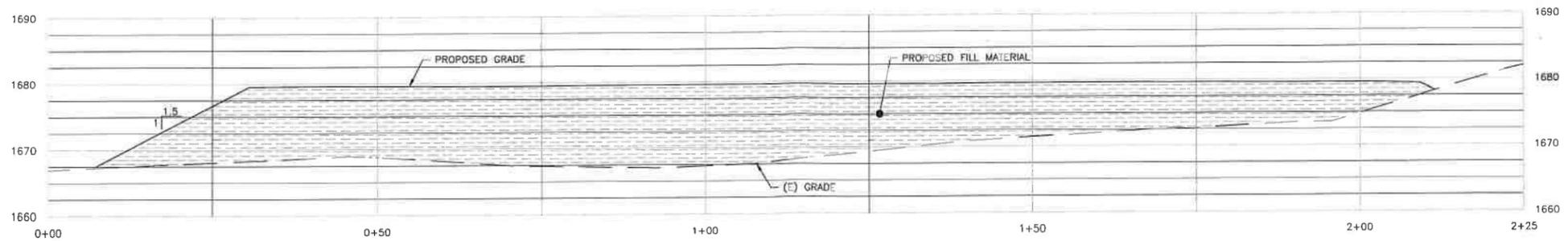
SITE SECTION A
1"=10'



SITE SECTION B
1"=10'



SITE SECTION C
1"=10'



SITE SECTION D
1"=10'



TVCE
67 WILMUT WAY
PO BOX 1587
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PHONE (530) 829-3000
FAX (530) 829-3011

NO.	DATE	DESCRIPTION	BY	CHK BY	APP BY
1	08/25/16	PRELIMINARY DESIGN			

TIM BUSMAN
APN: 523-021-003
COON CREEK ROAD, WILLOW CREEK
BLUFF LAKE, CA 96052
SECTIONS AND DETAILS
HUMBOLDT COUNTY, CALIFORNIA

DRAWN BY:
ERIC REYS
DESIGNED BY:
A. DORNICK
CHECKED BY:
J. MCKENIGHT
DATE ISSUED BY:
TVCE

DATE OF ISSUE:
OCTOBER 2016

SCALE:
AS SHOWN

PROJECT NO:
441

DRAWING NO:
CO2.1

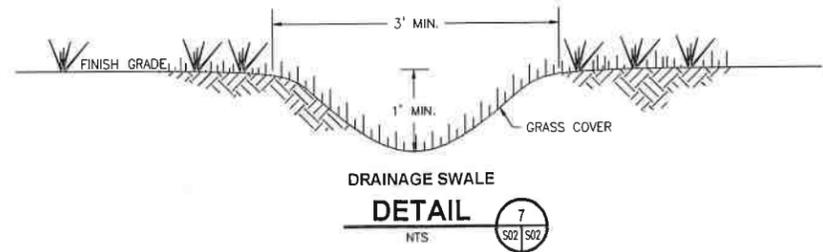
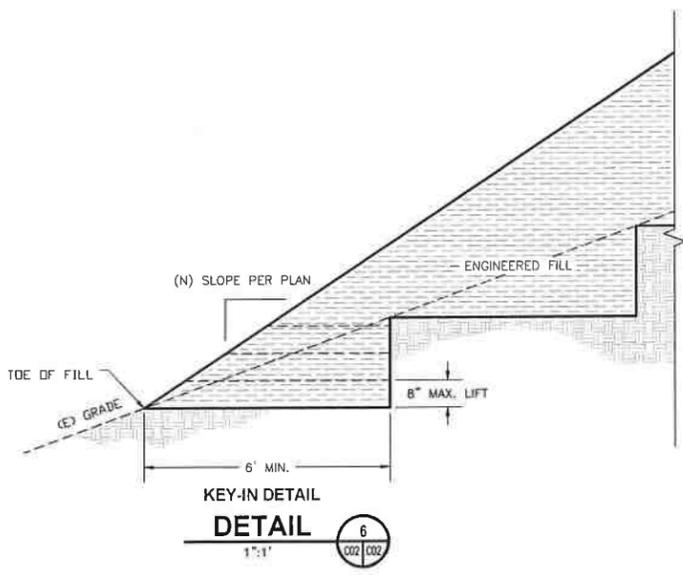
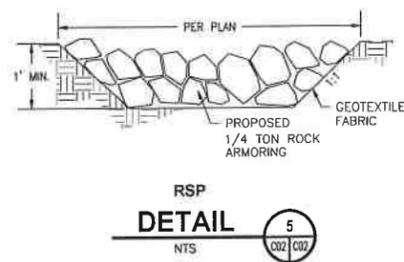
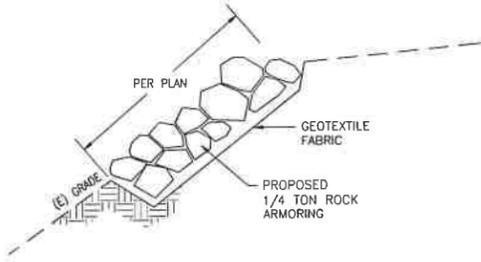
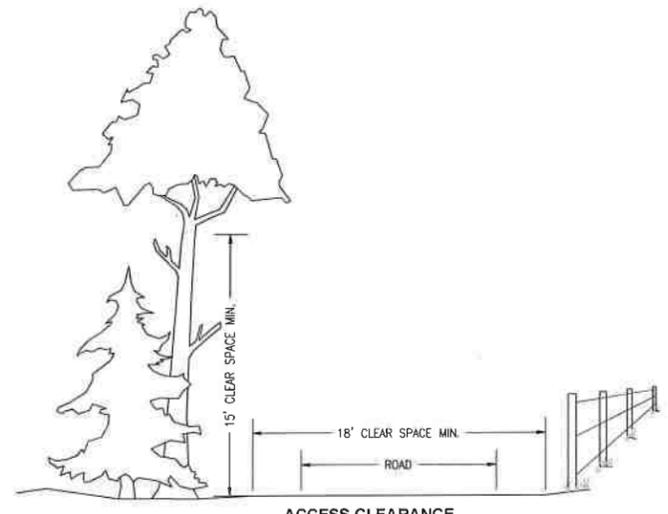
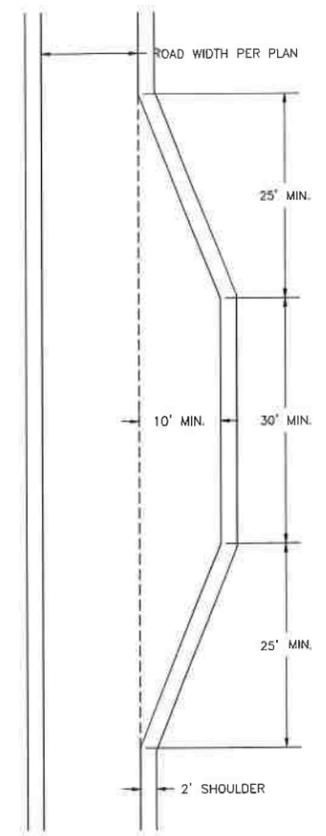
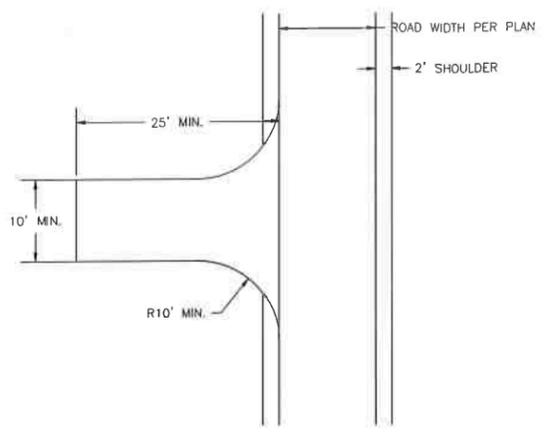
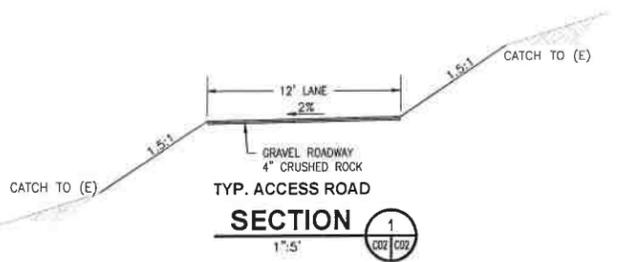


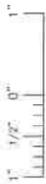
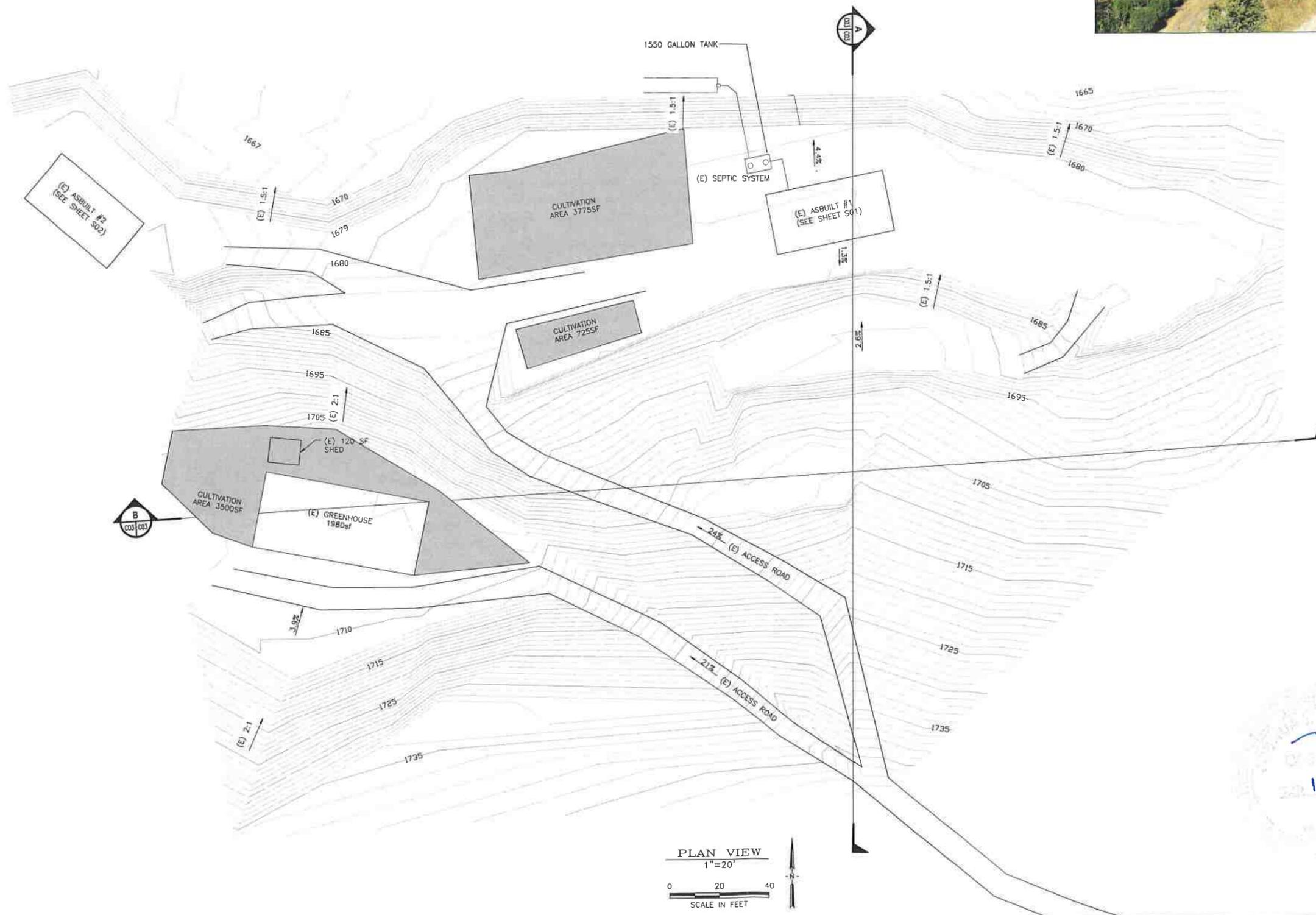
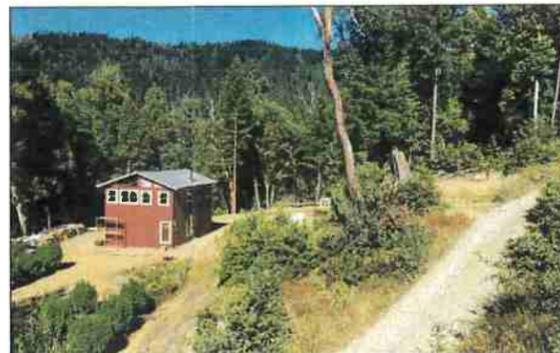
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REV	DATE	BY	CHK	APP	DESCRIPTION

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COON CREEK ROAD, WILLOW CREEK
BLUFF, CA 96052
SECTIONS AND DETAILS
HUMBOLDT COUNTY, CALIFORNIA

DESIGNED BY: ERIC KEYS	APPROVED BY: J. MCKENIGHT
DRAWN BY: A. DOMINICK	CHECKED BY: J. MCKENIGHT
DATE OF ISSUE: OCTOBER 2016	SCALE: AS SHOWN
PROJECT NO: 441	DRAWING NO: C02.2





PLAN VIEW
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SCALE IN FEET



12-31-16

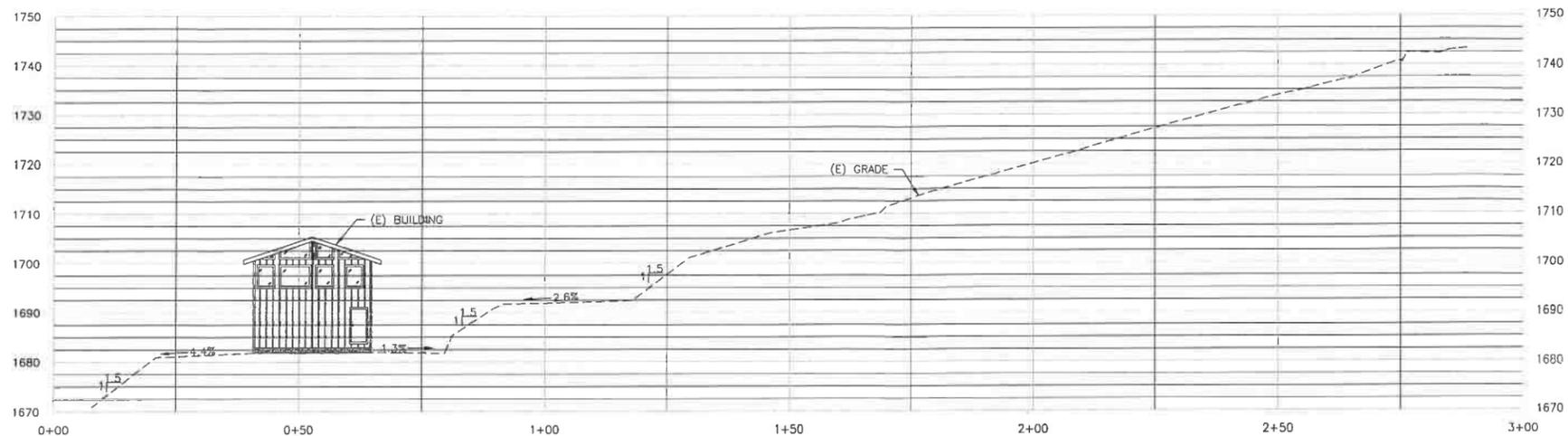


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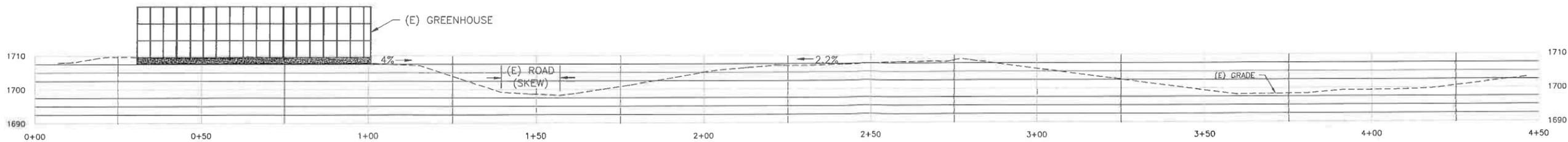
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1	10/20/16	PRELIMINARY DESIGN			

TIM BUSMAN
APN: 523-021-003
COON CREEK ROAD, WILLOW CREEK
BLUE LAKE, CA 96052
EXISTING SITE #1
HUMBOLDT COUNTY, CALIFORNIA

DRAWN BY: ERIC KEYS	DATE OF ISSUE: OCTOBER 2016
DESIGNED BY: A. DOMINICK	SCALE: AS SHOWN
CHECKED BY: J. McKNIGHT	PROJECT NO.: 441
APPROVED BY: TYPE	DRAWING NO.: C03.0



SURFACE PROFILE
1"=15'
A



SURFACE PROFILE
1"=20'
B

1" = 1/2" = 0'



DATE	DESIGNER	CHECKER	DATE	DESIGNER	CHECKER

EXISTING SITE #1 SECTIONS
HUMBOLDT COUNTY, CALIFORNIA

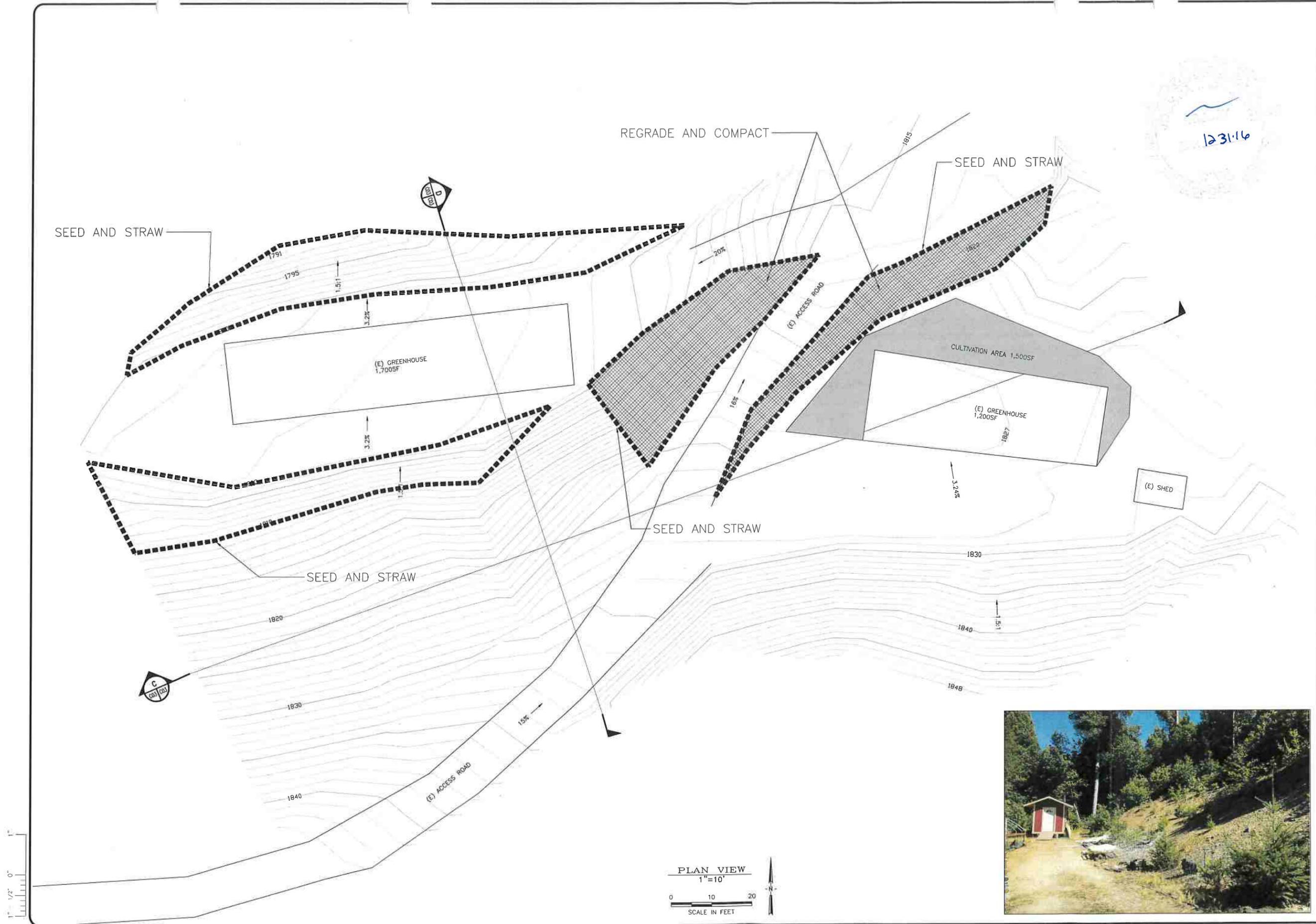
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BLUE LAKE, CA 96052

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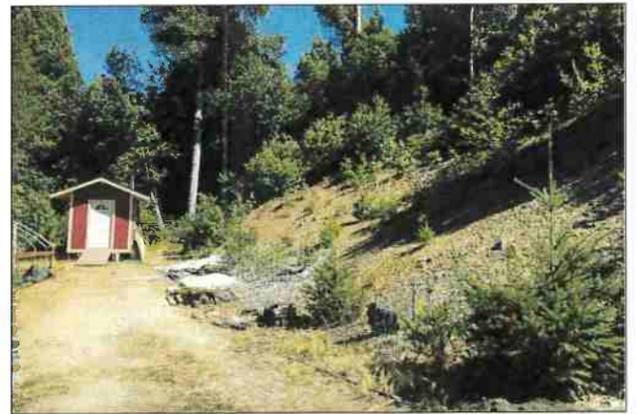
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1" = 1/2" = 0"

PLAN VIEW
1"=10'
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SCALE IN FEET

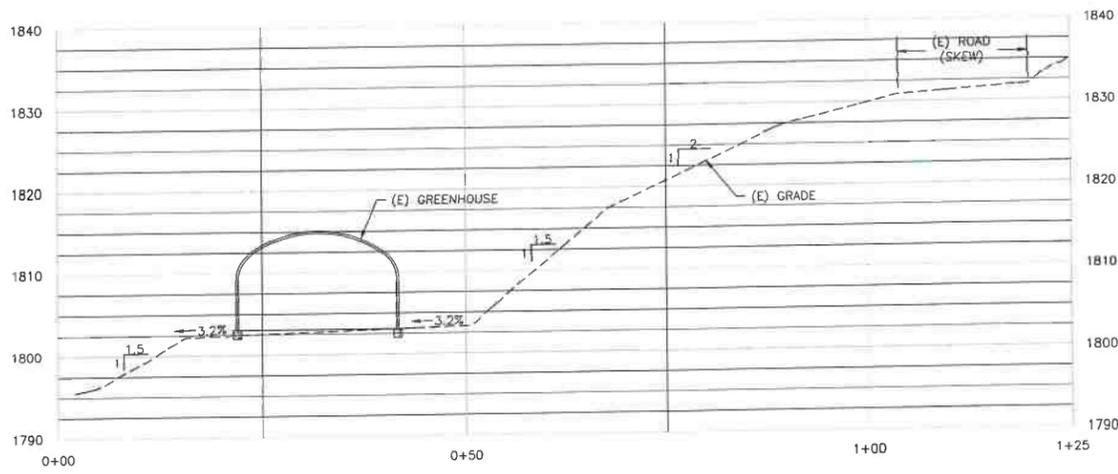


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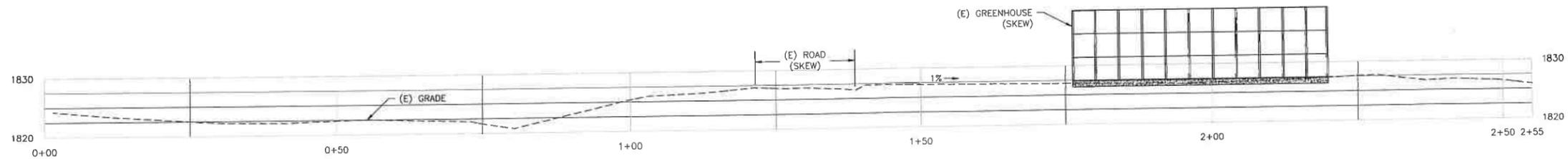
REV	DATE	DESCRIPTION	APP BY	CHK BY	DATE
A	08/25/16	PRELIMINARY DESGN			

TIM BUSMAN
APN: 523-021-003
COON CREEK ROAD, WILLOW CREEK
BLUE LAKE, CA 96052
EXISTING SITE #2
HUMBOLDT COUNTY, CALIFORNIA

DRAWN BY: ERIC KEYS	DATE OF ISSUE: OCTOBER 2016
DESIGNED BY: A. DOMINICK	SCALE: AS SHOWN
CHECKED BY: J. McKNIGHT	PROJECT NO: 441
APPROVED BY: TYCE	DRAWING NO: C03.2



SURFACE PROFILE A
1"=10'
C03 | C03



SURFACE PROFILE B
1"=10'
C03 | C03



TVCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
TEL (530) 938-8000
FAX (530) 938-8011



REV	DATE	DESCRIPTION	DES BY	CHK BY	APP BY
A	10/20/16	PRELIMINARY DESIGN			

TIM BUSMAN
APN: 523-021-003
COON CREEK ROAD, WILLOW CREEK
P.O. BOX 1774
BLUE LAKE CA 96032
EXISTING SITE #2 SECTIONS
HUMBOLDT COUNTY, CALIFORNIA

DRAWN BY: ERIC KEYS
DESIGNED BY: A. DOMINICK
CHECKED BY: J. MCKNIGHT
APPROVED BY: TVCE

DATE OF ISSUE: OCTOBER 2016

SCALE: AS SHOWN

PROJECT NO: 441

DRAWING NO: C03.3

FOUNDATION NOTES

- ALL FOOTING EXCAVATION SHALL BE AS NEAT AS PRACTICABLE. OVER EXCAVATION IN DEPTH SHALL BE FILLED WITH CONCRETE, AND IN WIDTH MAY BE FILLED WITH CONCRETE OR COMPACTED BACKFILL. ALL LOOSE SOILS SHALL BE REMOVED FROM EXCAVATION PRIOR TO PLACEMENT OF REINFORCEMENT, CONCRETE OR ENGINEERED FILL. FOOTING EXCAVATION TO BE 2" WIDER THAN SHOWN UNLESS FOOTINGS ARE FORMED.
- ALL FOUNDATIONS SHALL BEAR ON FIRM, UNDISTURBED NATIVE SOILS OR ENGINEERED FILL AT OR EXCEEDING DEPTHS SHOWN ON THE DRAWINGS.
- WATER SHALL BE REMOVED FROM FOUNDATION EXCAVATION PRIOR TO PLACING OF CONCRETE.
- THE CONTRACTOR IS RESPONSIBLE FOR ALL SHORING, ETC. NECESSARY TO SUPPORT CUT AND/OR FILL BANKS DURING EXCAVATION, AND FORMING AND PLACEMENT OF CONCRETE.
- REINFORCING STEEL SHALL BE DEFORMED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A-615, GRADE 60 FOR #4 BARS OR LARGER, AND GRADE 40 FOR #3 BARS.
- DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS SHALL CONFORM TO THE 'ACI DETAIL MANUAL' - 1988.
- CONCRETE PROTECTION FOR REINFORCING SHALL BE AT LEAST EQUAL TO THE DIAMETER OF THE BARS. MINIMUM COVER FOR CAST-IN-PLACE CONCRETE SHALL BE AS FOLLOWS.

A. POURED OVER EARTH	3"
B. POURED AGAINST FORM BELOW GRADE	2"
C. FORMED SLAB (#11 BARS AND SMALLER)	32/14"
D. SLABS ON GROUND (FROM TOP OF SLAB)	1"
E. COLUMN AND BEAM MAIN BARS, TIES, STIRRUPS, SPIRALS	1 1/2"
F. WALLS EXPOSED TO WEATHER (#6 THROUGH #18) (#5 BAR & SMALLER)	2" 1 1/2"
G. WALLS NOT EXPOSED TO WEATHER (#11 AND SMALLER)	3/4"
- REINFORCING BARS SHALL BE CLEAN OF RUST, GREASE OR OTHER MATERIAL LIKELY TO IMPAIR BOND. BENDS SHALL BE MADE COLD.
- MINIMUM LAP DISTANCE FOR REINFORCING STEEL SHALL BE 24" OR 32 BAR DIAMETERS WHICHER IS GREATER.
- ALL CONNECTORS, FASTENERS, AND METAL OBJECTS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE EITHER STAINLESS STEEL OR HOT-DIPPED GALVANIZED.

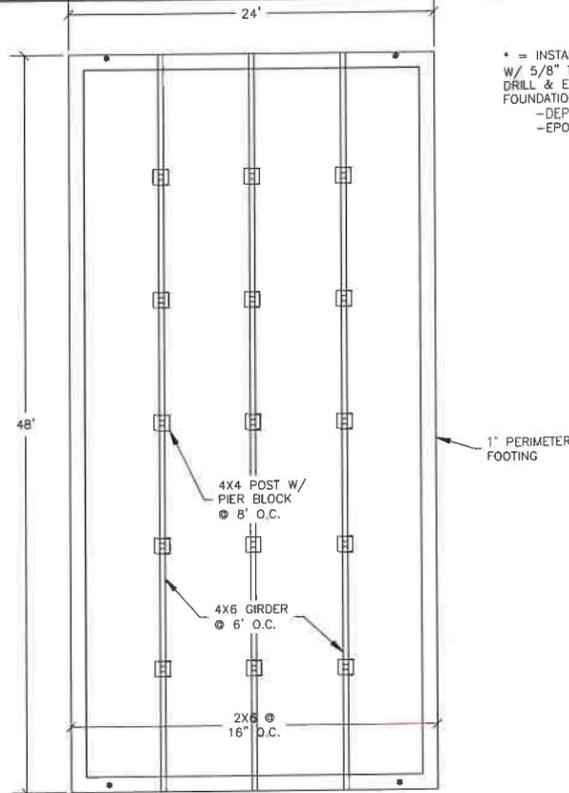
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- THE MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS SHALL BE 2500 PSI AND SHALL BE A MINIMUM OF A FIVE SACK MIX WITH NO MORE THAN SEVEN GALLONS OF WATER PER CUBIC YARD.
- ALL CONCRETE SHALL BE REGULAR WEIGHT HARD ROCK TYPE (150#/CF). MAXIMUM AGGREGATE SIZE FOR SLABS ON GRADE TO BE 3/4" AND 1 1/2" FOR FOUNDATIONS. AGGREGATE SHALL CONFORM TO ASTM C-33. CEMENT SHALL CONFORM TO C-150 (TYPE II), UNLESS ALKALINE SOILS. WATER-REDUCING ADMIXTURES, RETARDING ADMIXTURES, ACCELERATING ADMIXTURES, WATER-REDUCING AND RETARDING ADMIXTURES, AND WATER-REDUCING AND ACCELERATING ADMIXTURES SHALL CONFORM TO 'SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE' (ASTM C 494).
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- PROVIDE CONTROL JOINTS PER PLAN AND /OR EVERY 20 FEET ON CENTER. FILL WITH APPROVED CAULKING.
- PROVIDE 3/4" CHAMFER AT EXPOSED EDGES OF CONCRETE BEAMS AND COLUMNS U.N.O.
- ANCHOR BOLT SIZES AND LOCATIONS SHALL BE PER THE BUILDING PLANS. EMBEDMENT DEPTHS SHALL BE A MINIMUM OF 12".

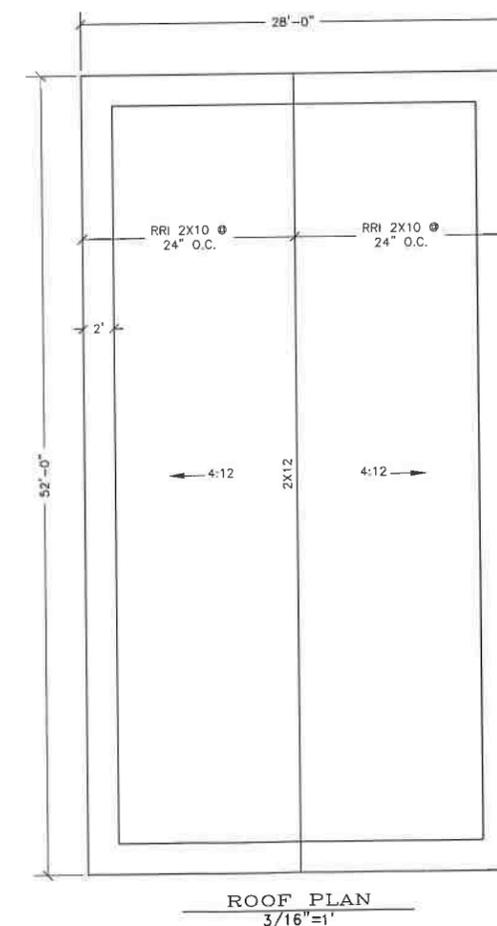
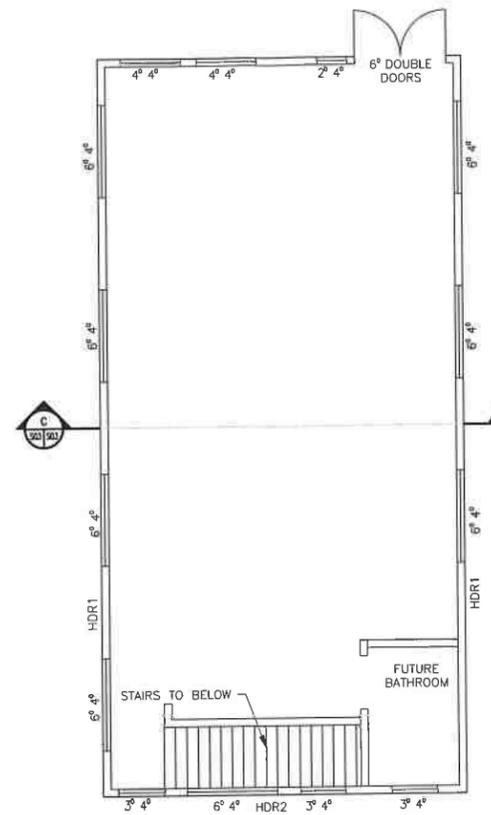
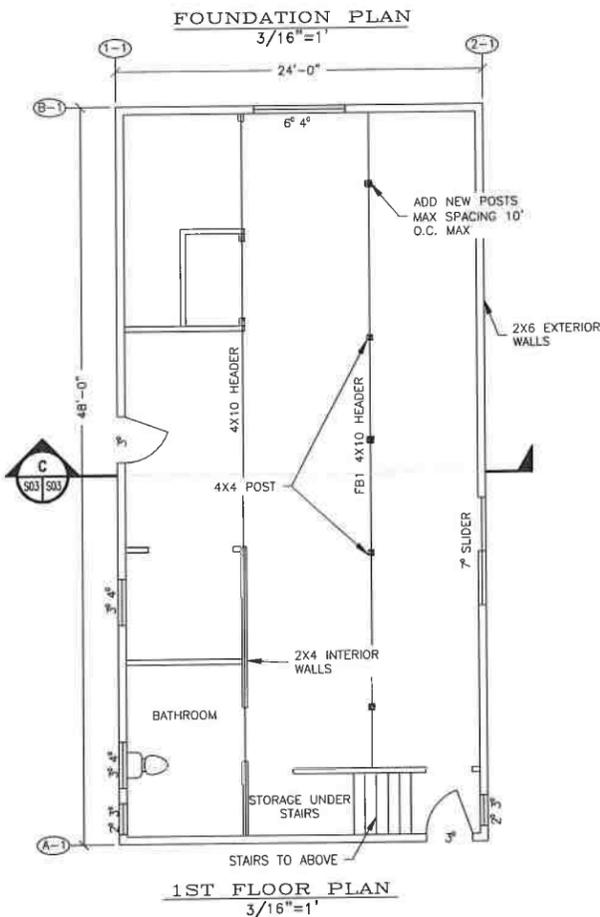
NOTE: FOOTING LAYOUT PER BUILDING PLANS FROM PRECISION STRUCTURAL ENGINEERING INC.

SHEARWALL SCHEDULE

WALL LINE	STORY	SHEATHING	FRAMING	NAILING	ANCHOR BOLTS	CONNECTIONS	OTHER
1-1	1	3/8" CD PLY	2X6 @ 16" O.C.	8D @ 6" EDGE, 12" FIELD	NA	NA	
2-1	1	3/8" CD PLY	2X6 @ 16" O.C.	8D @ 6" EDGE, 12" FIELD	NA	NA	
A-1	1	3/8" CD PLY	2X6 @ 16" O.C.	8D @ 6" EDGE, 12" FIELD	NA	NA	
B-1	1	3/8" CD PLY	2X6 @ 16" O.C.	8D @ 6" EDGE, 12" FIELD	NA	NA	



* = INSTALL HDU5 HOLD DOWN W/ 5/8" THREADED ROD DRILL & EPOXY TO EXISTING FOUNDATION
-DEPTH: 6"
-EPOXY: SIMPSON SET-XP



12-31-16



62 WILMUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
PHONE (530) 629-3000
FAX (530) 629-3011

REV	DATE	DESCRIPTION	DES BY	CHK BY	APP BY
A	9/20/16	PRELIMINARY DESIGN			

TIM BUSMAN
APN: 523-021-003
COON CREEK ROAD, WILLOW CREEK
P.O. BOX 1174
BLUE LAKE, CA 96052
ASBUILT #1
HUMBOLDT COUNTY, CALIFORNIA

DRAWN BY: ERIC KEYS
DESIGNED BY: A. DOMINICK
CHECKED BY: J. MCKNIGHT
APPROVED BY: TVCE

DATE OF ISSUE: OCTOBER 2016

SCALE: AS SHOWN

PROJECT NO: 441

DRAWING NO: S01.0

FOUNDATION NO.1

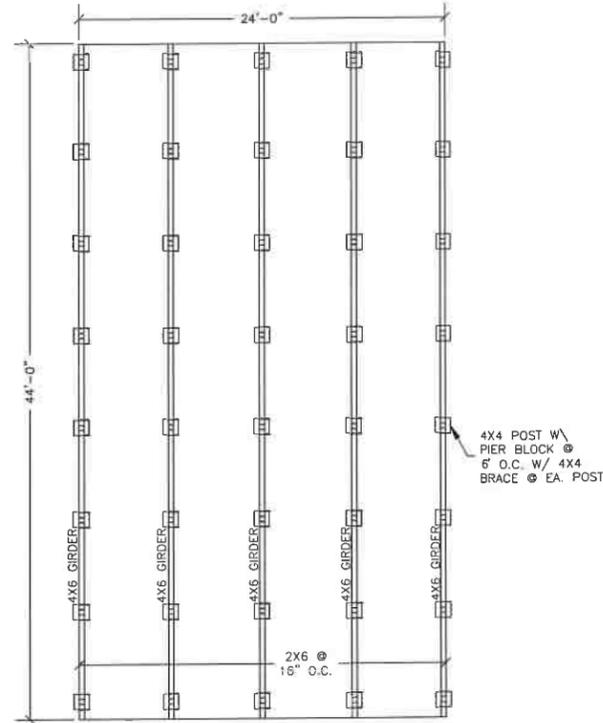
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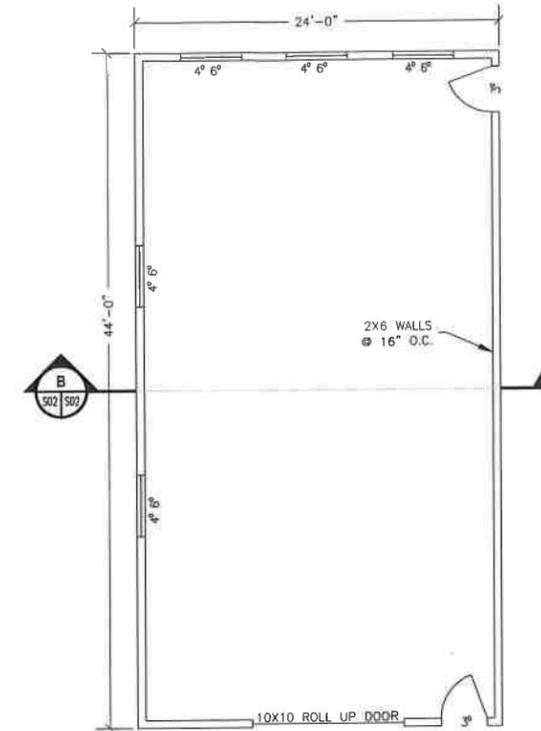
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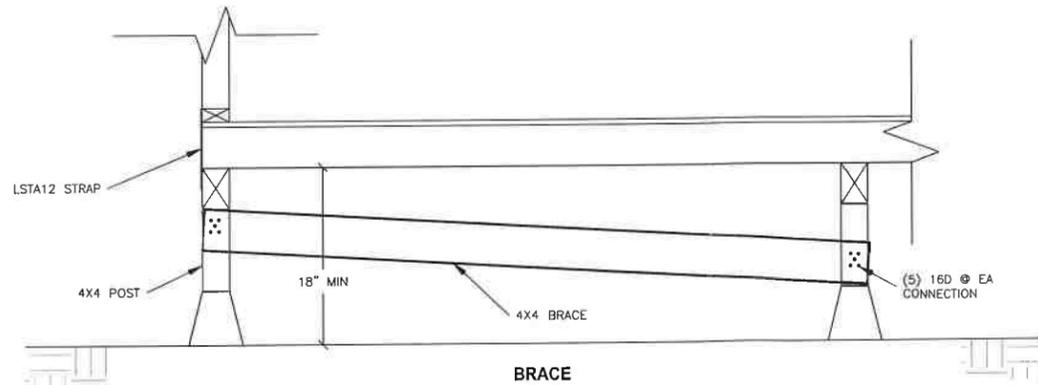
NOTE: FOOTING LAYOUT PER BUILDING PLANS FROM PRECISION STRUCTURAL ENGINEERING INC.



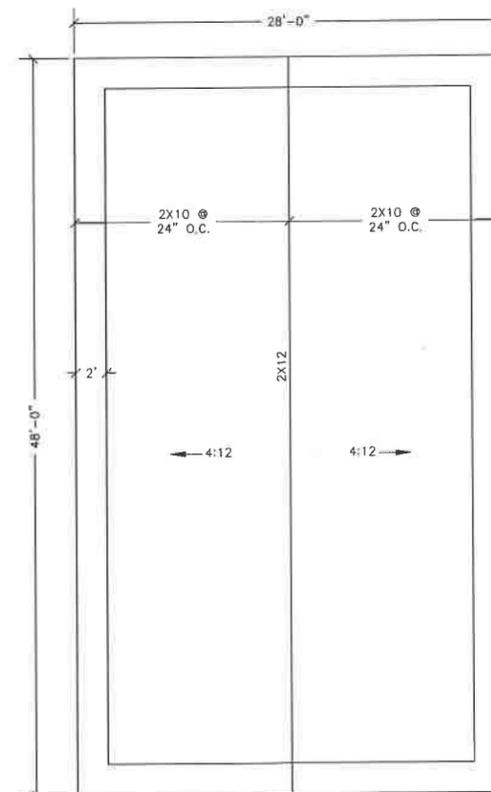
FOUNDATION PLAN
3/16"=1'



FLOOR PLAN
3/16"=1'



BRACE DETAIL
1
1"=1'



ROOF PLAN
3/16"=1'



TVCE
67 WALNUT WAY
WILLOW CREEK, CA 95573
PHONE (530) 629-3000
FAX (530) 629-3011

REV	DATE	DESCRIPTION	APP'D BY	CHK'D BY
A	9/30/16	PRELIMINARY DESIGN		

TIM BUSMAN
APN: 523-021-003
COON CREEK ROAD, WILLOW CREEK
P.O. BOX 1174
BLUE LAKE, CA 96052
ASBUILT #2
HUMBOLDT COUNTY, CALIFORNIA

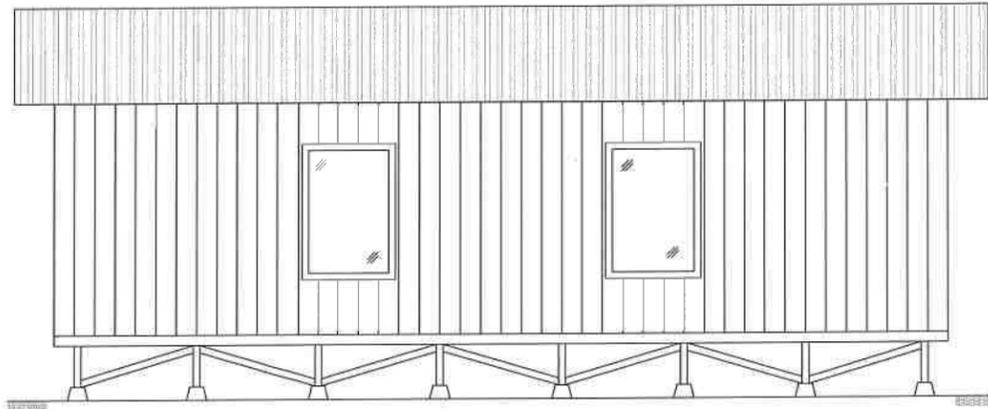
DRAWN BY: ERIC KEYS
DESIGNED BY: A. DOMINICK
CHECKED BY: J. MCKNIGHT
APPROVED BY: TVCE

DATE OF ISSUE:
OCTOBER 2016

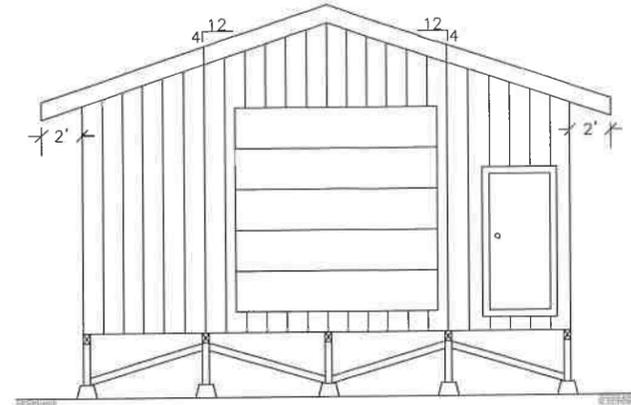
SCALE:
AS SHOWN

PROJECT NO:
441

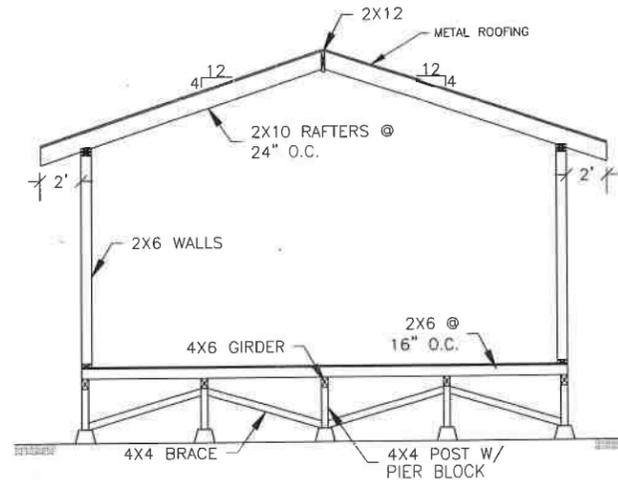
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S02.0



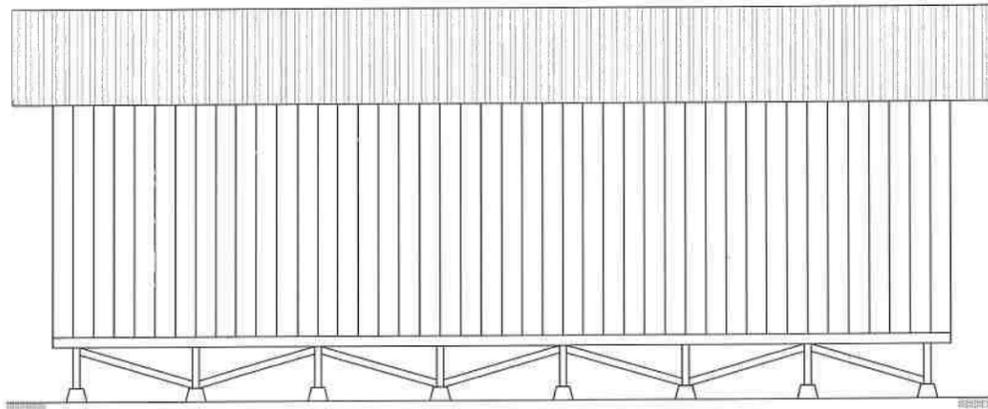
LEFT ELEVATION
1/4"=1'



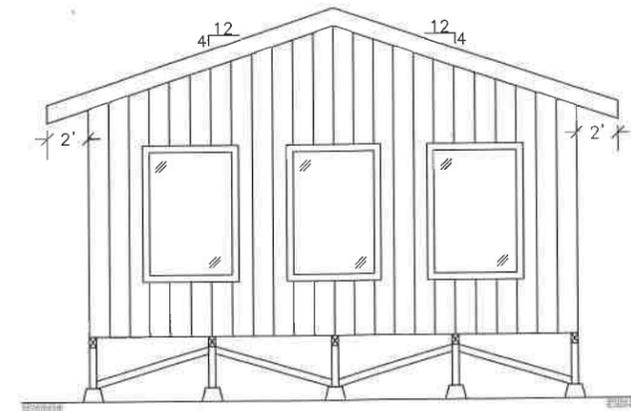
FRONT ELEVATION
1/4"=1'



SECTION B
1/4" = 1'



RIGHT ELEVATION
1/4"=1'



BACK ELEVATION
1/4"=1'

12-31-16



TYCE
67 WALNUT WAY
PO BOX 1567
WILLOW CREEK, CA 95573
PHONE (530) 629-3000
FAX (530) 629-3011

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TIM BUSMAN
APN: 523-021-003
COON CREEK ROAD, WILLOW CREEK
BLUE OAK, BOX 1176052
HUMBOLDT COUNTY, CALIFORNIA
ASBUILT #2 ELEVATIONS

DRAWN BY: ERIC KEYS
DESIGNED BY: A. DOMINICK
CHECKED BY: J. MCKNIGHT
APPROVED BY: TYCE

DATE OF ISSUE:
OCTOBER 2016

SCALE:
AS SHOWN

PROJECT NO:
441

DRAWING NO:
S02.1