

# " DAN LEATHERWOOD "

996 COULTER PINE ROAD  
CRESTLINE, CA 92325

REVISION	DATE
STR.	10/24/23
SGN.	00/00/00
CNTY.	00/00/00
CORT.	00/00/00
CORT.	00/00/00

**Bryant Bergeson**  
CONSULTING ENGINEER  
(RCE 48805)  
P.O. BOX 6885  
CRESTLINE, CA 92325



**OWNER:** DAN LEATHERWOOD  
Name: DAN LEATHERWOOD  
Address: 6788 RAINIER COURT  
City: RIVERSIDE, CA 92506  
PHONE: (909) 000-0000  
E-MAIL: -

**PROJECT:** SHORING PLAN  
Name: SHORING PLAN  
Address: 996 COULTER PINE ROAD  
City: CRESTLINE, CA 92325  
CONTRACTOR: SEAN HORAN  
CONTR. PHONE: (951) 452-6474

LOT: 74-76  
TRACT: 1713  
BLOCK: 0  
A.P.N.: 0344-092-57



SCALE: 1/8" = 1'-0"  
DRAWN BY: ADAN RODARTE  
JOB NO.: 0344-092-57  
TITLE: TITLE PAGE  
SHEET NO.: T-1

### PROJECT PLAN NOTES

- NO CHANGES ARE TO BE MADE ON THESE PLANS WITHOUT THE KNOWLEDGE OR CONSENT OF THE ARCHITECT / ENGINEER WHOSE SIGNATURE APPEARS HEREON.
- DIMENSIONS AS INDICATED ARE THE DIMENSIONS TO BE USED FOR CONSTRUCTION. DO NOT SCALE DRAWINGS.
- NO FRAMING OF ANY TYPE TO BE CONCEALED PRIOR TO INSPECTION BY GOVERNING AGENCIES.
- REFERENCES TO ANY DETAIL OR DRAWINGS IS FOR CONVENIENCE ONLY AND DOES NOT LIMIT THE APPLICATION OF SUCH DETAIL OR DRAWINGS.
- DIMENSIONS AND CONDITIONS AT THE JOB SITE SHALL BE VERIFIED BY ALL CONTRACTORS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXAMINE ALL THE CONDITIONS PRIOR TO SUBMITTING BIDS TO THE OWNER SINCE PROPOSALS MUST TAKE INTO CONSIDERATION ALL SUCH DISCREPANCIES IN THE DRAWINGS OR BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ENGINEER AND TO THE OWNER. CORRECTED DRAWINGS OF INSTRUCTIONS SHALL BE ISSUED BY THE ENGINEER PRIOR TO THE INSTALLATION OF ANY WORK. ALL DIMENSIONS ARE TO BE ROUGH UNLESS OTHERWISE NOTED.
- ALL WORK, CONSTRUCTION AND MATERIALS SHALL COMPLY WITH ALL PROVISIONS OF THE BUILDING CODE AND WITH OTHER RULES, REGULATIONS AND ORDINANCES GOVERNING THE PLACE OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF ANYONE SUPPLYING LABOR OR MATERIAL OR BOTH TO BRING TO THE ATTENTION OF KADTEC CONSULTANTS AND THE OWNER ANY DISCREPANCIES OR CONFLICT BETWEEN THE REQUIREMENTS OF THE CODE AND THE DRAWINGS. THE APPLICABLE CODES SHALL INCLUDE, (SEE CODES AND REQUIREMENTS NOTED BELOW)
- THESE DRAWINGS DO NOT CONTAIN THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND SHALL NOTIFY KADTEC OF ANY DISCREPANCIES IMMEDIATELY BEFORE COMMENCING ANY WORK.
- NOTES: IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL SHEETS OF THE CONSTRUCTION DOCUMENTS AND CONDITIONS ON SITE.
- THE GENERAL BUILDING PERMIT AND PLAN CHECK SHALL BE SECURED AND PAID FOR BY THE OWNER AND OR CONTRACTOR. ALL OTHER PERMITS SHALL BE SECURED AND PAID FOR BY THE SUBCONTRACTOR DIRECTLY RESPONSIBLE.
- THE OWNER MAY ORDER EXTRA WORK OR MAKE CHANGES BY ALTERING, ADDING TO OR DEDUCTING FROM THE WORK, THE CONTRACT SUM BEING ADJUSTED ACCORDINGLY.
- ALL TRADES SHALL, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR WORK. AT THE COMPLETION OF THE WORK, REMOVE ALL RUBBISH, TOOLS, SCAFFOLDING, SURPLUS MATERIALS AND LEAVE THE JOB IN A BROOM CLEAN CONDITION.
- ALL EXIT DOORS MUST BE OPERABLE FROM INSIDE WITHOUT THE USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY CEILING OR WALL ACCESS PANELS (OR ACCESS DOORS) AS REQUIRED BY GOVERNING AGENCIES FOR AIR CONDITIONING, AND ELECTRICAL SYSTEMS. PROVIDE APPROVED ASSEMBLIES WITH SELF-CLOSING DEVICES IN 1-HOUR RATED CONSTRUCTION.

**DESIGNER NOTES:**  
1. THIS SET OF PLANS, PER CONTRACT WITH KADTEC, IS A BUILDER'S SET OF PLANS. THIS MEANS THAT NOT ALL DETAILS AND SPECIFICATIONS ARE PROVIDED AND THE GENERAL CONTRACTOR AND SUBCONTRACTOR WILL BE REQUIRED TO HAVE GENERAL CONSTRUCTION KNOWLEDGE TO COMPLETE THE STRUCTURE.  
2. ANY CHANGES OR DEVIATIONS FROM THESE PLANS WITHOUT WRITTEN CONSENT OF AN AUTHORIZED KADTEC EMPLOYEE RELEASES THE PROJECT DESIGNER AND KADTEC FROM ANY LIABILITY FOR THE ENTIRE PROJECT.  
3. THE ENTIRE STRUCTURE SHALL BE RETROFITTED TO COMPLY WHEN ANY ADDITION, ALTERATION, ENLARGEMENT OR RECONSTRUCTION EQUALS OR EXCEEDS 50% OF THE EXISTING STRUCTURE. THE ENTIRE ROOF SHALL BE RETROFITTED TO COMPLY WHEN 25% OR MORE OF THE EXISTING ROOFING IS REPLACED OR REPAIRED.  
4. AN APPROVED EROSION AND SEDIMENT CONTROL PLAN AND PERMIT WILL BE REQUIRED FOR ALL DEVELOPMENT PROJECTS, PRIOR TO BUILDING PERMIT FINAL APPROVAL THE PROPERTY SHALL BE IN COMPLIANCE WITH THE VEGETATION CLEARANCE REQUIREMENTS PRESCRIBED IN CALIFORNIA PUBLIC RESOURCES CODE 4291 AND CALIFORNIA GOVERNMENT CODE SECTION 51182.  
5. THE OWNER AND OR GENERAL FRAMING CONTRACTOR ARE RESPONSIBLE TO REVIEW AND VERIFY ALL SHEAR SCHEDULED FOR THIS PROJECT. ALL SHEAR WALLING, SIMPSON STRONG-WALLS, HARDY FRAMES AND ANY OTHER ALTERNATIVE SHEAR STRUCTURE ARE TO BE INSTALLED AND LOCATED PER PLANS. ANY INCONSISTENCIES OR NECESSARY STRUCTURAL CHANGES ARE TO BE ADDRESSED BY THE ENGINEER OF RECORD BEFORE MOVING FORWARD WITH THE PROJECT IN QUESTION. STRUCTURAL CHANGES MADE DURING CONSTRUCTION THAT ARE NOT REVIEWED BY THE ENGINEER OF RECORD ARE LEGALLY THE RESPONSIBILITY OF THE OWNERS AND OR CONTRACTORS INVOLVED.

### SPECIAL INSPECTIONS

**REQUIRED SPECIAL INSPECTIONS FOR SEISMIC RESISTANCE, 1705.12.2**  
SAN BERNARDINO COUNTY RESIDENTIAL CONCRETE FOUNDATION DESIGN WITHOUT A SOILS REPORT REQUIREMENTS PER IB2019-0005 CODE EFFECTIVE DATE: JANUARY 15, 2020  
1.0. CONCRETE FOUNDATION DESIGN REQUIREMENTS FOR RESIDENTIAL DWELLINGS LOCATED IN NON-GEOLOGICAL HAZARD LOCATIONS (SUCH AS LIQUEFACTION, LANDSLIDE, AQUIFUD PROLO ZONE, ETC.) WHEN NO SOILS REPORT IS PROVIDED. RESIDENTIAL DWELLINGS INCLUDE CONSTRUCTION OF SINGLE-FAMILY RESIDENCES, DUPLEXES, TOWNHOUSES, ACCESSORY DWELLING UNITS, GUEST HOUSES, AND ROOM ADDITIONS. THIS REPLACES STANDARD OPERATING PROCEDURE 85N-00.04 FAMILY RESIDENTIAL PROJECTS. 2.0 - UPDATED JANUARY 15, 2020  
3.0. POLICY/PROCEDURE:  
FOR RESIDENTIAL DWELLINGS OF NO MORE THAN 2 STORES; EITHER: A SOILS REPORT IS REQUIRED FOR THE CONSTRUCTION OF RESIDENTIAL DWELLINGS, OR, IN LIEU OF THE REQUIRED SOILS REPORT, WHERE THE GROUND SLOPE IS LESS THAN 5:1, STRUCTURAL CONCRETE FOUNDATIONS MAY BE DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS SET FORTH AS FOLLOWS:  
**GENERAL REQUIREMENTS**  
A. ALL EXTERIOR WALLS AND INTERIOR BEARING WALLS SHALL BE SUPPORTED ON CONTINUOUS FOOTINGS.  
B. THE MINIMUM DEPTH OF FOOTINGS BELOW THE NATURAL AND FINISH GRADE SHALL BE 24 INCHES FOR THE EXTERIOR AND 18 INCHES FOR THE INTERIOR FOOTINGS.  
C. THE MINIMUM WIDTH OF FOOTINGS SHALL BE 12 INCHES FOR SUPPORTING 1-STORY BUILDING OR 15 INCHES FOR SUPPORTING 2-STORY BUILDING.  
D. FOOTINGS SHALL BE REINFORCED WITH FOUR CONTINUOUS #4 REINFORCING STEEL BARS. TWO BARS SHALL BE PLACED WITHIN 4 INCHES FROM THE BOTTOM OF THE FOOTINGS AND TWO BARS PLACED WITHIN 4 INCHES FROM THE TOP OF THE FOOTINGS WITH A MINIMUM CONCRETE COVER PER ACI 318 SECTION 7.7.1.  
FOR THE SEISMIC FORCE-RESISTING SYSTEMS OF STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY C, D, E OR F:  
\* CONTINUOUS SPECIAL INSPECTION SHALL BE REQUIRED DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM.  
\* PERIODIC SPECIAL INSPECTION SHALL BE REQUIRED FOR NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS.  
NOTE: SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS AND DIAPHRAGMS...WHERE THE FASTER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.

### RESIDENTIAL CONCRETE FOUNDATION DESIGN WITHOUT A SOILS REPORT

2.2. DRAINAGE ADJACENT TO FOOTINGS SHALL BE DIRECTED AWAY FROM THE STRUCTURE BY SLOPED FINISH GRADE AT LEAST 2 PERCENT FOR A DISTANCE OF 4 FEET.  
EXCEPTION: WHERE LOT LINES, WALLS, SLOPES OR OTHER PHYSICAL BARRIERS PROHIBIT SLOPE WITHIN 10 FEET, DRAINS OR SWALES SHALL BE CONSTRUCTED TO ENSURE DRAINAGE AWAY FROM THE STRUCTURE.  
IMPERVIOUS SURFACES WITHIN 10 FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED NOT LESS THAN 2 PERCENT AWAY FROM THE BUILDING.  
SLAB-ON-GRADE FOUNDATION  
F. CONCRETE SLABS ON GRADE SHALL HAVE A THICKNESS OF AT LEAST 4 INCHES WITH #4 REINFORCING STEEL BARS PLACED AT MID-SLAB AND SPACED AT INTERVALS NOT EXCEEDING 16 INCHES EACH WAY. SLABS SHALL BE PLACED ON A 4-INCH COURSE AGGREGATE OR A 2-INCH CLEAN SAND OVER A VAPOR BARRIER MEMBRANE OF MINIMUM 6-MIL THICKNESS.  
G. THE SOIL BELOW INTERIOR CONCRETE SLABS SHALL BE PRE-SATURATED TO A DEPTH OF 18 INCHES PRIOR TO POURING THE CONCRETE.  
H. #4 DOWELS SPACED AT 16 INCHES, BENT AT 90 DEGREES, AND EXTENDED 2 FEET INTO THE SLAB AND 2 FOOT INTO THE FOOTING SHALL BE PROVIDED.  
EXCEPTION: DOWELS MAY BE OMITTED IF SLABS AND FOOTINGS ARE POURED MONOLITHICALLY.  
BASED FLOOR FOUNDATION  
I. THE STEM WALL SHALL BE OF CONCRETE OR MASONRY WITH A MINIMUM THICKNESS OF 8 INCHES.  
ADDITIONAL REQUIREMENTS  
J. THE ALLOWABLE LOAD-BEARING PRESSURE IN REFERENCE TO THE DESIGN OF STRUCTURAL FOUNDATIONS SHALL NOT EXCEED 1,500 PSF.  
K. CONCRETE SHALL BE NORMAL WEIGHT WITH MINIMUM COMPRESSIVE STRENGTH OF  $f_c = 2,500$  PSI AT 28 DAYS.  
L. THE BUILDING INSPECTOR MAY REQUIRE COMPACTION TESTING OR A SOILS REPORT IF QUESTIONABLE SITE CONDITIONS EXIST.

### CODES AND REQUIREMENTS

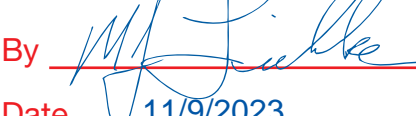
OCCUPANCY: R-3 / U  
TYPE OF CONSTRUCTION: V-B  
FIRE SPRINKLERS: (NO) SEE FIRE LETTER FOR THIS PROJECT. SPRINKLER PLAN UNDER SEPARATE PERMIT  
BUILDING CODE STANDARDS: 2022 CBC, 2022 CRC, 2022 CPC, 2022 CMC, 2022 CEC, 2022 CGBC (CAL GREEN), 2022 CALIFORNIA T-24 ENERGY CODE AND LOCAL SAN BERNARDINO COUNTY / CITY BLDG. CODES  
NOTE: THIS PROJECT MUST COMPLY WITH ALL 2022 GREEN BUILDING STANDARD REQUIREMENTS  
(R301.1.3) WHERE STRUCTURAL ELEMENTS EXCEED THE LIMITS OF SECTION R301 THESE ELEMENTS SHALL BE DESIGNED IN ACCORDANCE WITH ACCEPTED ENGINEERING PRACTICE, ENGINEERED DESIGN IN ACCORDANCE WITH THE CBC IS PERMITTED FOR STRUCTURES, AND PARTS THEREOF, INCLUDED IN THE SCOPE OF THIS CODE.  
W.U.I. NOTE: THIS PROJECT SHALL BE CONSTRUCTED WITH "THE WILDLAND URBAN INTERFACE" (WUI) APPROVED PRODUCTS IN ACCORDANCE WITH CBC CHAPTER 7A, THE (WUI) APPROVED PRODUCTS ARE FOUND WITHIN THE CURRENT "BUILDING MATERIALS LISTING" (BML) AT: <https://osfm.fire.ca.gov/divisions/fire-engineering-and-investigations/building-materials-listing/>

### DEFERRED SUBMITTAL NOTE

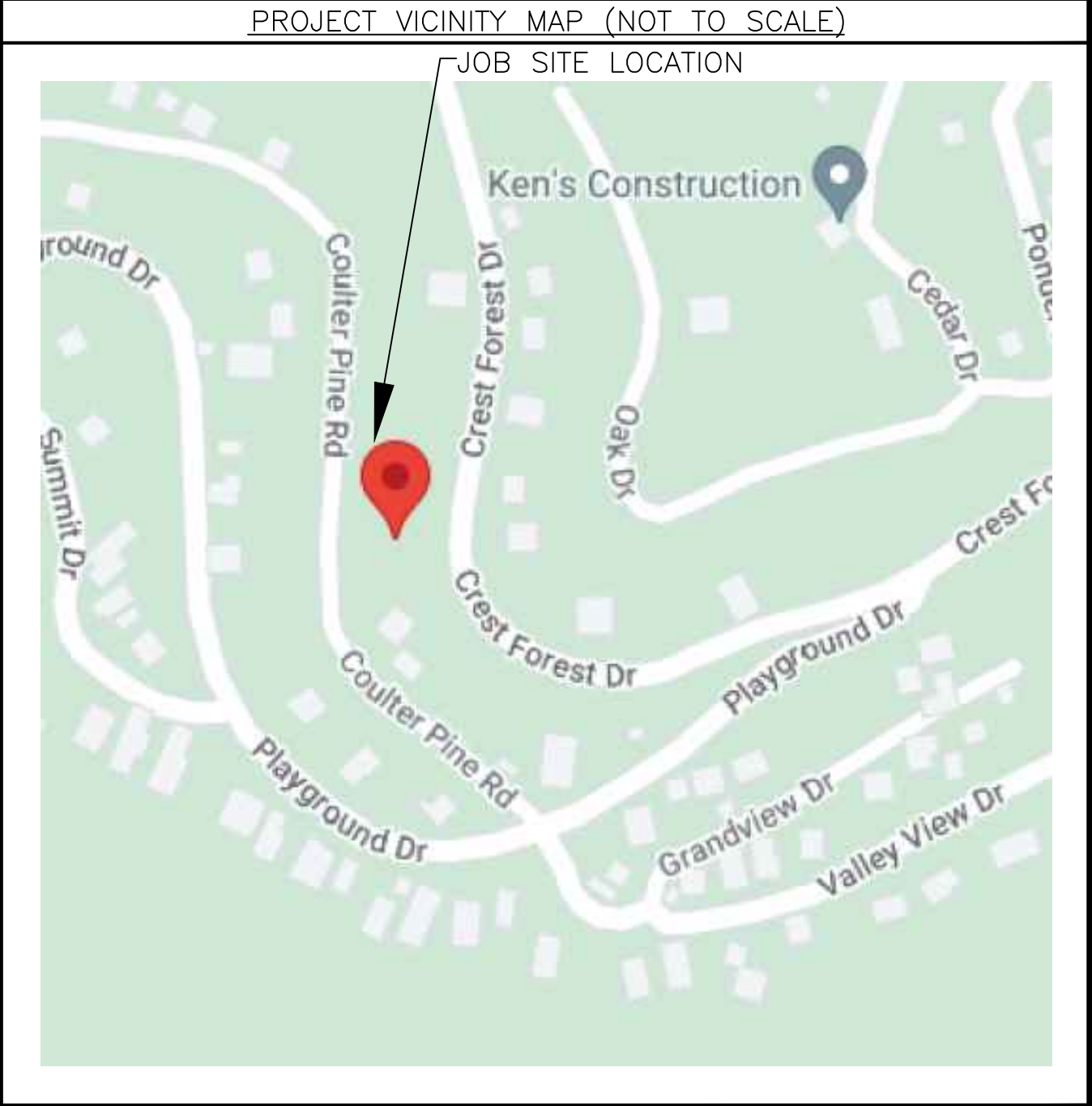
DEFERRED SUBMITTALS ITEMS LISTED BELOW SHALL BE REVIEWED BY THE ARCHITECT OR ENGINEER OF RECORD PRIOR TO SUBMITTAL TO THE BUILDING OFFICIAL FOR APPROVAL. THE ARCHITECT OR ENGINEER OF RECORD SHALL INDICATE THAT THE DOCUMENTS HAVE BEEN REVIEWED AND FOUND TO BE IN GENERAL CONFORMANCE TO THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. CBC107.3.4.1  
"NO" DEFERRED SUBMITTAL FOR THIS PROJECT

**CSG CONSULTANTS, INC.**  
THESE PLANS AND DETAILS ARE  
**APPROVED**

THE APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.

By:   
Date: 11/9/2023

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS



STRUCTURAL OBSERVATIONS:	
DATE	SIGNATURE
FOOTINGS	
FOUNDATION STEEL	
FOUNDATION BOLTS	

**COUNTY APPROVED PLANS AND CALCS (8 PAGES)**  
**ALTR-2023-01092**

**County of San Bernardino**  
**BUILDING AND SAFETY**  
 THESE PLANS AND DETAILS ARE  
**APPROVED**  
 THE APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE OF THIS COUNTY.  
 By:   
 Date: 11/09/2023  
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EXISTING 2- STORY HOME AREA SUMMARY			CONSULTANTS	SHEET INDEX
EXISTING DECK & DEMO AREA 573 SQ.FT.			<b>OWNER</b> DAN LEATHERWOOD 6788 RAINIER COURT RIVERSIDE, CA 92506 PHONE: (909) 000-0000	T-1 TITLE PAGE & PROJECT INFORMATION
			<b>ENGINEERING AND TITLE 24</b> BRYANT R. BERGESON (RCE 48805) P.O. BOX 6885 CRESTLINE, CA 92325 PHONE: (909) 336-6970 FAX : (909) 337-2211	T-2 PROJECT GENERAL NOTES
SCOPE OF PROJECT DEMOLISH EXISTING SNOW FAILING DECK AND BOARD UP EGRESS DOOR FOR FALL PROTECTION UNTIL DECK IS BUILT. ALSO TEMPORARY SHORING UNDER FAILING EXTERIOR BEARING WALL.			<b>DRAFTING &amp; PLANNING</b> KADTEC 26748 HWY 189, SUITE 'B' BLUE JAY, CA 92317 PHONE: (909) 336-6970 FAX : (909) 337-2211	C-1 SITE PLAN AND EROSION CONTROL PLAN E/C NOTE: EROSION CONTROL MEASURES SHALL HAVE BEEN INSTALLED AND INSPECTED BY THE SB COUNTY INSPECTOR PRIOR TO COMMENCEMENT OF GRADING. FAILURE TO COMPLY WILL RESULT IN A NOTICE OF VIOLATION PER SAN BERNARDINO COUNTY CODE 85-11.030(c).
			<b>RETAINING WALL &amp; GRADING SUMMARY</b> "NO" SEPARATE RETAINING WALLS PROPOSED.  "NO" SITE GRADING PROPOSED	A-1 EXISTING FLOOR PLAN AND DEMO PLAN S-1 SHORING FRAMING PLAN
CATEGORY	CITY / COUNTY STANDARDS	PROVIDED	LOCAL SERVICES	
			<b>BUILDING AND SAFETY</b> LAND USE SERVICES DEPT., BUILDING AND SAFETY DIVISION 26010 STATE HIGHWAY 189, (P.O. BOX 709) TWIN PEAKS, CA 92391 PHONE: (909) 336-0640 FAX : (909) 336-0616 SB COUNTY: (909) 387-8311 SB CITY : (909) 387-4244	
			<b>ASSESSOR OFFICE</b> SAN BERNARDINO COUNTY ASSESSOR, TWIN PEAKS DIVISION 26010 STATE HIGHWAY 189, (P.O. BOX 395) TWIN PEAKS, CA 92391 PHONE: (909) 336-0650 FAX : (909) 336-0656	
			<b>SITE INSPECTION APPOINTMENTS</b> PHONE: (909) 336-0641 <b>SOUTHERN CALIFORNIA Edison</b> PHONE: 1-800-655-4555 <b>WATER / SEWER COMPANIES</b> SEE YOUR LOCAL WHITE PAGES FOR CONTACT INFORMATION <b>FIRE DEPARTMENTS</b> SEE YOUR LOCAL WHITE PAGES FOR CONTACT INFORMATION	<b>SOUTHERN CALIFORNIA GAS</b> PHONE: 1-800-427-2200 <b>VERIZON CALIFORNIA</b> PHONE: 1-800-483-4000

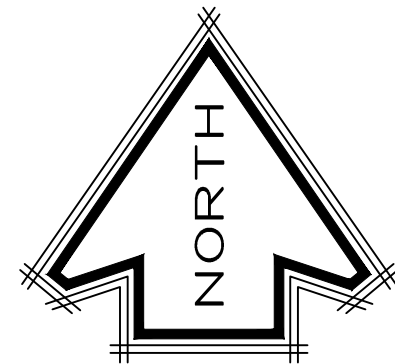


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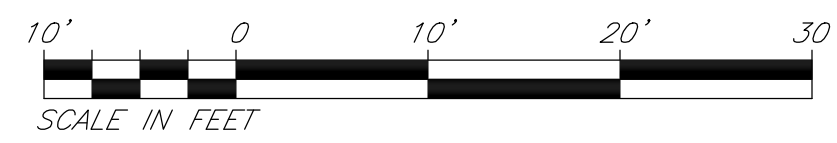
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By M. J. Fulle  
Date 11/9/2023

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SCALE: 1" = 10'  
DATE: OCTOBER 27, 2023

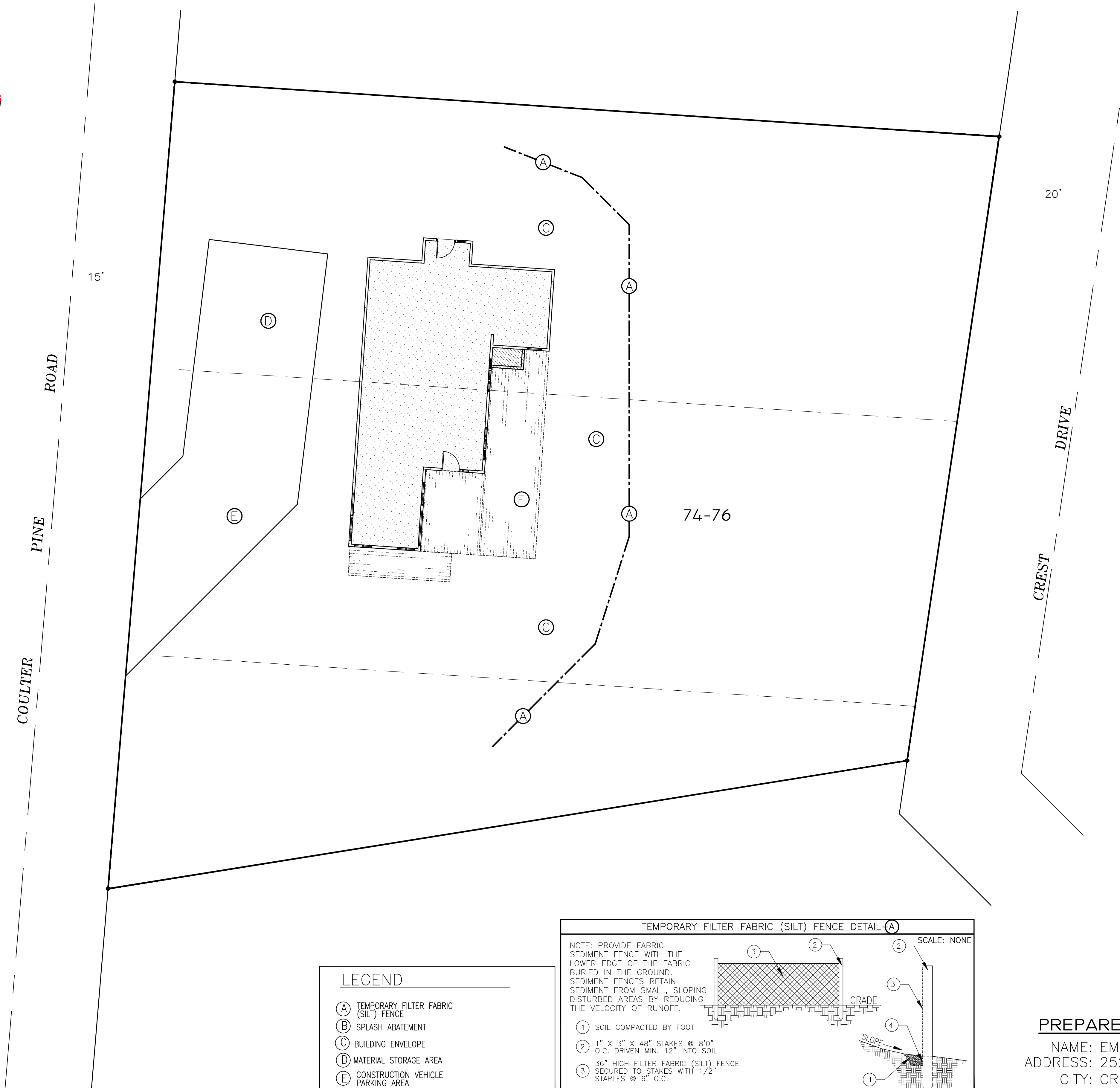


**\*BEST MANAGEMENT PRACTICES FOR CONSTRUCTION ACTIVITIES\***

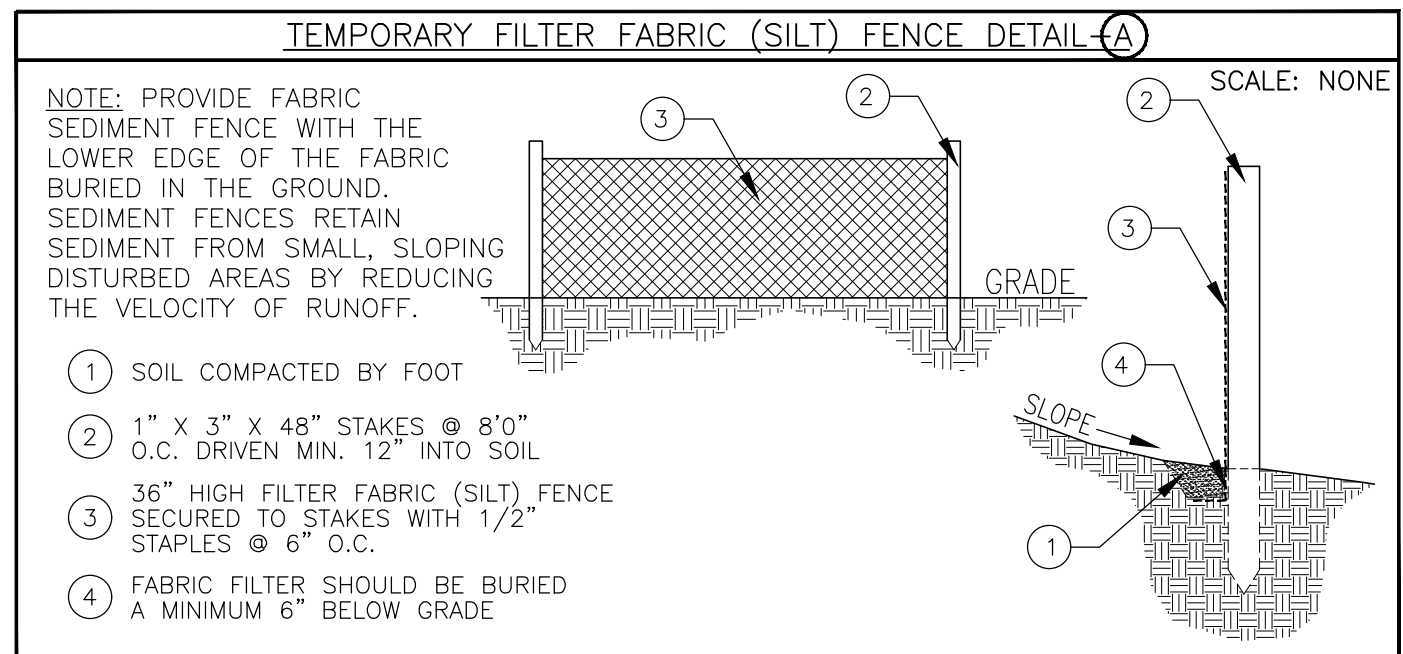
STORM WATER POLLUTION CONTROL AND MINIMUM WATER QUALITY PROTECTION REQUIREMENTS FOR ALL DEVELOPMENT CONSTRUCTION PROJECTS AND ACTIVITIES

THE FOLLOWING IS INTENDED AS MINIMUM NOTES OR AS AN ATTACHMENT FOR BUILDING AND GRADING PLANS AND REPRESENT THE MINIMUM STANDARDS OF GOOD HOUSEKEEPING THAT MUST BE IMPLEMENTED ON ALL CONSTRUCTION SITES REGARDLESS OF SIZE. (APPLIES TO ALL PERMITS)

- ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEETFLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND.
- STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
- FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
- NON-STORMWATER RUNOFF FROM EQUIPMENT AND VEHICLE WASHING AND ANY OTHER ACTIVITY SHALL BE CONTAINED AT THE PROJECT SITE.
- EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
- TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
- SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEEPED UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
- ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.



LEGEND	
(A)	TEMPORARY FILTER FABRIC (SILT) FENCE
(B)	SPLASH ABATEMENT
(C)	BUILDING ENVELOPE
(D)	MATERIAL STORAGE AREA
(E)	CONSTRUCTION VEHICLE PARKING AREA
(F)	2" LAYER OF 3/4" GRAVEL UNDER WOOD DECK



**PREPARED FOR**  
NAME: EMILY FOSTER  
ADDRESS: 25291 MAXY DRIVE  
CITY: CRESTLINE, CA 92325  
PHONE: (951) 662-9370

REVISION	DATE
STR.	10/24/23
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**KADTEC**  
DESIGN ENGINEERING  
26748 HWY 189, BLUE JAY (909) 336-6670

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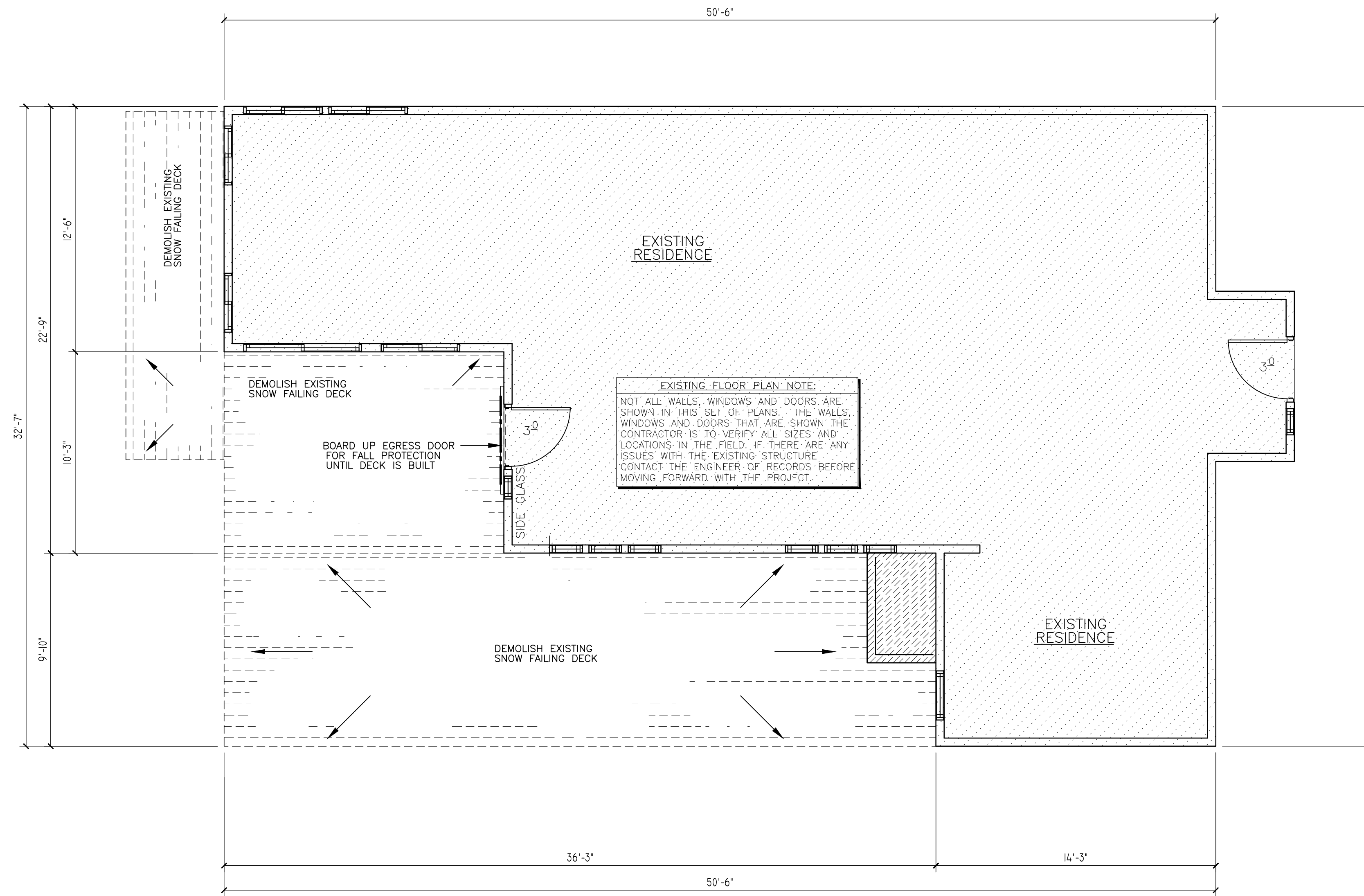
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By *[Signature]*  
Date 11/9/2023

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**EXISTING DECK FLOOR PLAN**  
1178 SQ. FT. EXISTING RESIDENCE      SCALE : 1/4" = 1'-0"  
573 SQ. FT. EXISTING DECK AREA

**WALL SCHEDULE**

[Symbol]	= DENOTES EXISTING WALL TO REMAIN.
[Symbol]	= DENOTES NEW 2X4 @ 16" O.C. STUD WALLS.
[Symbol]	= DENOTES NEW 2X6 @ 16" O.C. STUD WALLS.
[Symbol]	= DENOTES RETAINING WALL.
[Symbol]	= DENOTES CONCRETE SLAB OR WATERPROOFING.

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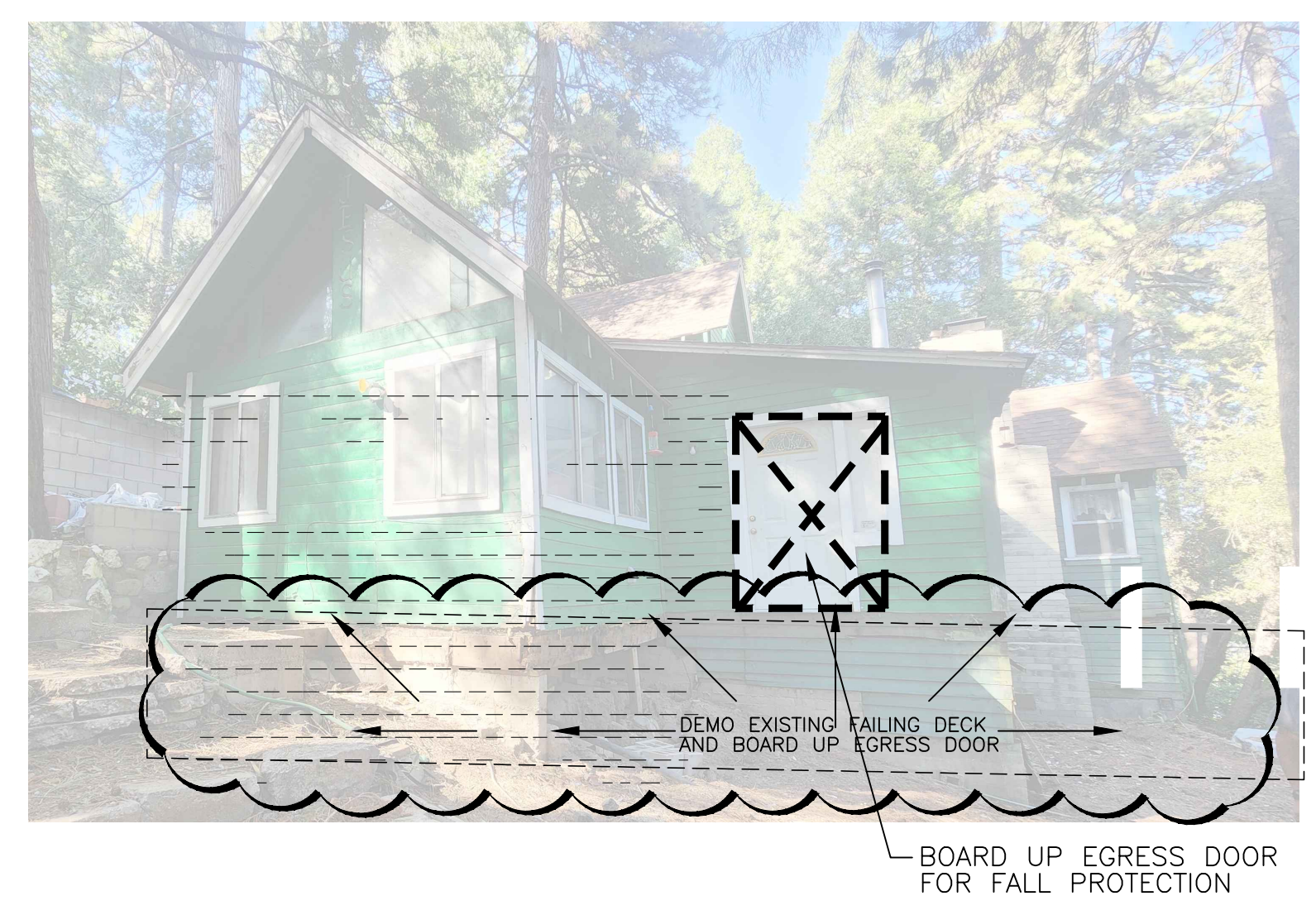
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BLOCK: 0  
A.P.N.: 0344-092-57



SCALE: 1/4" = 1'-0"  
DRAWN BY: ADAN RODARTE  
JOB NO.: 0344-092-57  
TITLE: FLR. FRAMING  
SHEET NO.: S-1



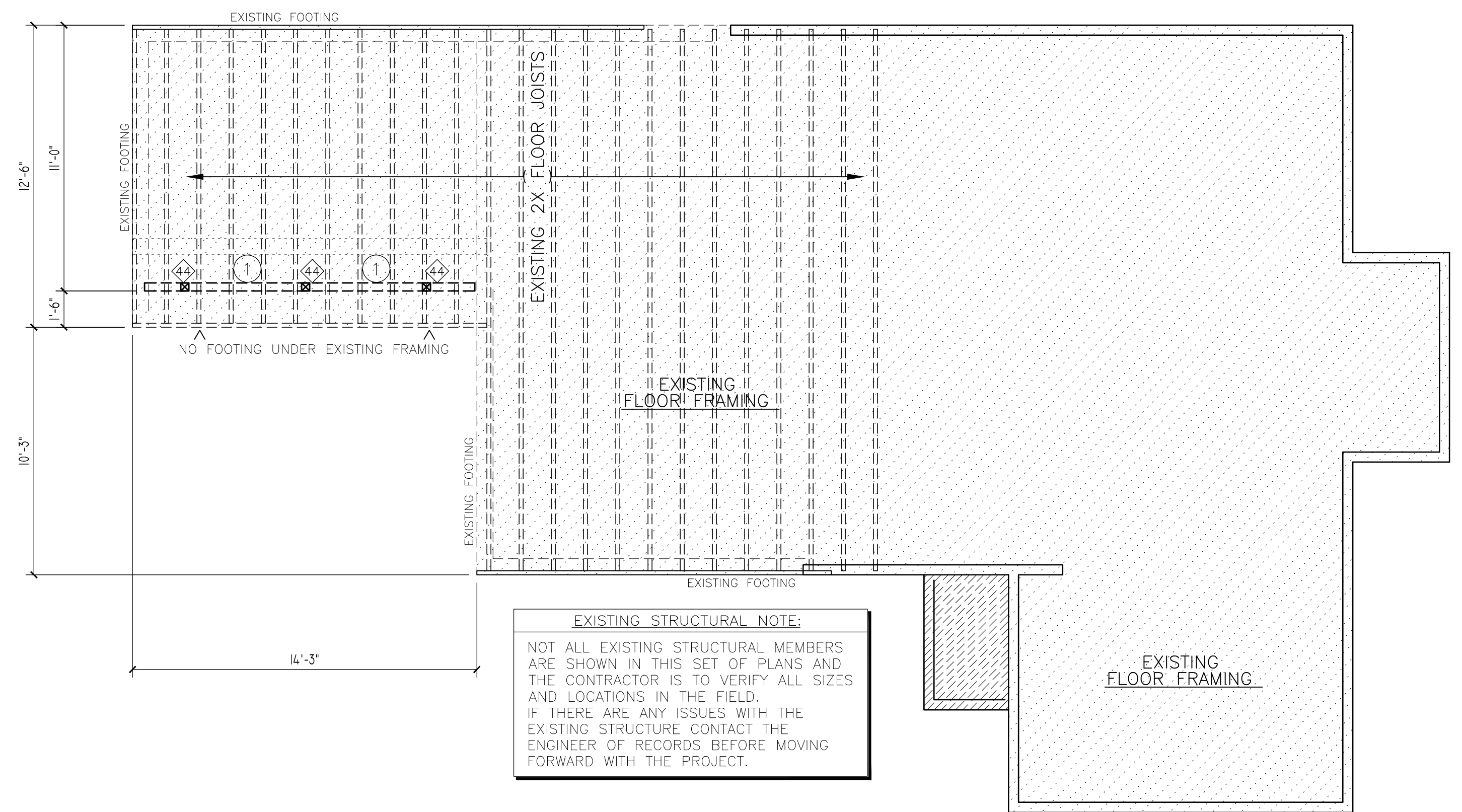
EXISTING DEMO & SHORING PLAN



EXISTING EXPOSE FOOTING & STRUCTURAL VIEW



TEMPORARY SHORING PLAN



SHORING FRAMING PLAN

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

**CSG CONSULTANTS, INC.**  
THESE PLANS AND DETAILS ARE  
**APPROVED**  
THE APPROVAL OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE.  
By: *[Signature]*  
Date: 11/9/2023  
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

STRUCTURAL POST SCHEDULE			
⊠ <sub>4x4</sub>	= 4X4 POST	⊠ <sub>6x6</sub>	= 6X6 POST
⊠ <sub>4x6</sub>	= 4X6 POST	⊠ <sub>6x8</sub>	= 6X8 POST
⊠ <sub>4x8</sub>	= 4X8 POST	⊠ <sub>8x8</sub>	= 8X8 POST
⊠ <sub>PL</sub>	= POINT LOAD/KING POST	⊠ <sub>EX</sub>	= EXISTING POST

STRUCTURAL FLOOR SCHEDULE	
①	TEMPORARY SHORING WITH TWO 4X12 JOIST GIRDER AND 4X4 POSTS
②	
③	
④	

FLOOR JOISTS SCHEDULE	
A	
B	
C	

STRUCTURAL FLOOR NOTES:  
1- 2X & 4X MEMBERS TO BE DOC P520 GRADE DF #2 OR BETTER  
2- 6X & 8X MEMBERS TO BE DOC P520 GRADE DF#1 OR BETTER  
3- = BLOCK = SOLID BLOCK OVER BEARING WALL AND OR FLOOR GIRDERS AND JOIST ENDS  
4- ALL BEARING WINDOW AND DOOR HEADERS ARE TO BE 4X12 DF#2 UNLESS NOTED OTHERWISE  
5- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST OF ALL CITY, COUNTY, AND STATE BUILDING CODES.  
6- PROVIDE DOUBLE FLOOR JOISTS UNDER PARALLEL PARTITIONS AND PARALLEL EXTERIOR WALLS.

# COVER SHEET

2022 CBC & 2022 CRC

Job Name: Leatherwood Shoring

Lot Number: 74-76

Tract Number: 1713

APN: 0344-092-57

Job Address: 996 Coulter Pine Rd, Crestline, Ca. 92325

Engineer: Bryant R. Bergeson, RPE No. 48805  
26748 Hwy 189, Blue Jay, Ca 92327  
(909) 336-6970

Pages in Calculation Packet: 3

Typical Load Calculation Page: 2

Vertical Load Calculation Pages: 3-

Lateral Load Calculation Pages: x-xx

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By 

Date 11/9/2023

THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS



Stamp and Signature

## Typical Load Calculations

<u>Roof</u>	DEAD LOAD	LIVE LOAD	Roof Snow Load	$P_{g75} := 107.143 \text{ psf}$ $P_{g100} := 142.857 \text{ psf}$	
Shingles	$sh := 6.0 \text{ psf}$	$C_e := 1.0$	$C_t := 1.0$	$I := 1.0$	ASCE 7-16, 7.3-1
Sheathing	$sht := 2.0 \text{ psf}$	$P_g := P_{g75} = 107.143 \text{ psf}$	$P_f := 0.7 \cdot C_e \cdot C_t \cdot I \cdot P_g$	$P_f = 75 \text{ psf}$	$A_m(b, d) := b \cdot d$
Framing	$fr := 4.0 \text{ psf}$	$C_s := 1.0$			$S_m(b, d) := \frac{b \cdot d^2}{6}$
Insulation	$ins := 1.5 \text{ psf}$	$RLL := 20 \text{ psf}$	$Pitch(x) := \frac{x}{12}$	$L(Pitch) := \sqrt{(12 \cdot Pitch)^2 + 12^2}$	$I_m(b, d) := \frac{b \cdot d^3}{12}$
Ceiling	$cl := 1.5 \text{ psf}$	$C_{so}(x) := 1 - (\text{atan}(Pitch(x)) \text{ deg}^{-1} - 30) \div 40$			
PV	$PV := 3 \text{ psf}$	$P_{so}(x) := \text{if}(x > 7, C_{so}(x) \cdot P_f, P_f)$			*ASCE 7-16 commentary C7.4
$DL := (sh + sht + fr + ins + cl + PV)$	$DL = 18 \text{ psf}$	$RDL(x) := DL \cdot (L(Pitch(x)) \div 12)$	$TRL(x) := P_{so}(x) + RDL(x)$		

<u>Slope/12</u>	<u>Sloped Dead Load</u>	<u>Sloped Snow Load</u>	<u>Total Roof Load</u>	
$y := 12$	$RDL(y) = 25.456 \text{ psf}$	$P_{so}(y) = 46.875 \text{ psf}$	$TRL_1 := TRL(y) = 72.331 \text{ psf}$	Note: if roof pitch is less than 7:12 use total snow load on roof which is TRL4
$y := 8$	$RDL(y) = 21.633 \text{ psf}$	$P_{so}(y) = 68.081 \text{ psf}$	$TRL_2 := TRL(y) = 89.715 \text{ psf}$	
$y := 6$	$RDL(y) = 20.125 \text{ psf}$	$P_{so}(y) = 75 \text{ psf}$	$TRL_3 := TRL(y) = 95.125 \text{ psf}$	
$y := 4$	$RDL(y) = 18.974 \text{ psf}$	$P_{so}(y) = 75 \text{ psf}$	$TRL_4 := TRL(y) = 93.974 \text{ psf}$	
			$P_{sr} := P_{so}(6) = 75 \text{ psf}$	

<u>Floor</u>					
DEAD LOAD:	$cvr := 1.0 \text{ psf}$	$shtg := 2.0 \text{ psf}$	$frg := 2.0 \text{ psf}$	$ins := 1.5 \text{ psf}$	$cl := 1.5 \text{ psf}$
$FDL := (cvr + shtg + frg + ins + cl + 2 \text{ psf})$			$FDL = 10 \text{ psf}$		(Floor Dead Load)
LIVE LOAD:			$FLL := 40 \text{ psf}$		(Floor Live Load)
TOTAL FLOOR LOAD:		$TFL := (FLL + FDL)$	$TFL = 50 \text{ psf}$		

<u>Wall</u>					
(studs)	(drywall)	(stucco)	(5/8" plywood)	(3/8" plywood)	
$stds := 1.0$	$dry := 3.0$	$stucco := 11.0$	$five := 2.0$	$three := 1.0$	
$Wall_e := (stds + dry + 2 \cdot five) \text{ psf}$	$Wall_i := (stds + 2 \cdot dry) \text{ psf}$	$Wall_s := (stds + dry + stucco + three) \text{ psf}$			$Wall := 40 \text{ plf}$

<u>Deck</u>					
$dshtg := 3.0 \text{ psf}$	(decking)	$DLL := 60 \text{ psf}$		(Deck Live Load)	$SpaLoad := 95 \text{ psf}$
$dfrg := 3.0 \text{ psf}$	(framing)	$DSL := P_f$	$DSL = 75 \text{ psf}$	(Deck Snow Load)	
$DDL := dshtg + dfrg = 6 \text{ psf}$					
$DTL := DDL + DLL \cdot 0.75 + DSL \cdot 0.75$		$DTL = 107.25 \text{ psf}$		(Deck Total Load)	CBC 1605.3 equation 16-11

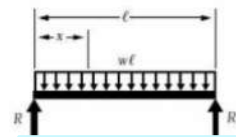
<u>Photovoltaic System Provisions</u>					
$CFA := 1500$	$NDwell := 1$	$A_{16} := 0.59$	$B_{16} := 1.22$	250 W Panel Size	$PS := 5 \text{ ft} \cdot 3 \text{ ft}$ $PS = 15 \text{ ft}^2$
$KW_{PV} := (CFA \cdot A_{16}) \cdot 0.001 + (NDwell \cdot B_{16})$			$KW_{PV} = 2.105$		
$N_p := KW_{PV} \cdot \frac{1000}{250}$	$N_p = 8.42$	$SQ := N_p \cdot PS$	$SQ = 126.3 \text{ ft}^2$		Equation 150.1-C PV output

## GLB Volume Factor

$$C_{Vo}(l, d, b) := \text{if}\left(\left(\frac{21 \text{ ft}}{l}\right)^{0.1} \cdot \left(\frac{12 \text{ in}}{d}\right)^{0.1} \cdot \left(\frac{5.125 \text{ in}}{b}\right)^{0.1} < 1, \left(\frac{21 \text{ ft}}{l}\right)^{0.1} \cdot \left(\frac{12 \text{ in}}{d}\right)^{0.1} \cdot \left(\frac{5.125 \cdot \text{in}}{b}\right)^{0.1}, 1\right)$$

### Beam - 1 (S-1)

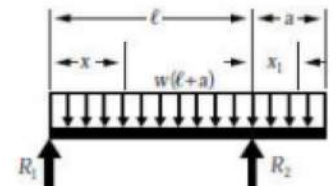
$l := 5 \cdot ft$     **try 4x12 DF#2**     $b := 3.5 \cdot in$      $d := 11.25 \cdot in$   
 $E := 1600000 \cdot psi$      $F_v := 180 \cdot psi$      $F_b := 900 \cdot psi$      $C_f := 1.0$      $C_D := 1.0$   
 $Beam := b \cdot d \cdot 33 \cdot pcf = 9.023 \cdot plf$      $w := (6 \cdot ft) \cdot (TRL_1 + TFL) + Beam$      $w = 743.009 \cdot plf$   
 $Le := l - (d \cdot 2)$      $R := \frac{Le \cdot w}{2}$      $R = 1160.951 \cdot lbf$      $A := \frac{R \cdot 1.5}{F_v \cdot C_D}$      $A = 9.675 \cdot in^2 <$      $A_m(b, d) = 39.375 \cdot in^2$   
 $M := \frac{w \cdot l^2}{8}$      $M = 2321.903 \cdot ft \cdot lbf$      $S := \frac{M}{F_b \cdot C_f \cdot C_D}$      $S = 30.959 \cdot in^3 <$      $S_m(b, d) = 73.83 \cdot in^3$   
 $\Delta TL := \frac{l}{240}$      $\Delta TL = 0.25 \cdot in$      $I := \frac{5 \cdot (w) \cdot l^4}{384 \cdot (E) \cdot (\Delta TL)}$      $I = 26.121 \cdot in^4 <$      $I_m(b, d) = 415.283 \cdot in^4$



**USE 4 X 12 DF#2**

### Cantilevered Beam -1 (S-1)

$l := 5 \cdot ft$      $a := 2 \cdot ft$     **try 4x12 DF#2**     $b := 3.5 \cdot in$      $d := 11.25 \cdot in$   
 $E := 1600000 \cdot psi$      $F_v := 180 \cdot psi$      $F_b := 900 \cdot psi$      $C_f := 1.0$      $C_D := 1.0$   
 $Beam := b \cdot d \cdot 33 \cdot pcf = 9.023 \cdot plf$      $w := (6 \cdot ft) \cdot (TRL_1 + TFL) + Beam$      $w = 743.009 \cdot plf$   
 $R_1 := \left(\frac{w}{2 \cdot l}\right) \cdot (l^2 - a^2)$      $R_1 = 1560.319 \cdot lbf$      $R_2 := \frac{w}{2 \cdot l} \cdot (l + a)^2$      $R_2 = 3640.743 \cdot lbf$   
 $V_1 := R_1 = 1560.319 \cdot lbf$      $V_2 := w \cdot a = 1486.018 \cdot lbf$      $V_3 := \frac{w}{2 \cdot l} \cdot (l^2 + a^2) = 2154.726 \cdot lbf$   
 $M_1 := \left(\frac{w}{8 \cdot l^2}\right) \cdot (l + a)^2 \cdot (l - a)^2$      $M_2 := \frac{w \cdot a^2}{2}$      $M_1 = 1638.33 \cdot ft \cdot lbf$      $M_2 = 1486.02 \cdot ft \cdot lbf$   
 $V := \max(V_1, V_2, V_3)$      $V = 2154.726 \cdot lbf$      $A := \frac{V \cdot 1.5}{F_v \cdot C_D}$      $A = 17.956 \cdot in^2 <$      $A_m(b, d) = 39.375 \cdot in^2$   
 $M := \max(M_1, M_2) = 1638.33 \cdot ft \cdot lbf$      $S := \frac{M}{F_b \cdot C_f \cdot C_D}$      $S = 21.84 \cdot in^3 <$      $S_m(b, d) = 73.83 \cdot in^3$   
 $\Delta TL := \frac{l}{240}$      $\Delta TL = 0.25 \cdot in$      $I := \frac{5 \cdot (w) \cdot l^4}{384 \cdot (E) \cdot (\Delta TL)}$      $I = 26.121 \cdot in^4 <$      $I_m(b, d) = 415.283 \cdot in^4$



**USE 4 X 12 DF#2**

### Deck Post 4x4

$span := 4 \cdot ft$     **try 4x4 DF#2 post.**     $b := 3.5 \cdot in$      $d := 3.5 \cdot in$   
 $E := 1600000 \cdot psi$      $E_{min} := 580000 \cdot psi$      $F_v := 170 \cdot psi$      $F_b := 1200 \cdot psi$      $F_c := 1000 \cdot psi$      $C_D := 1.15$   
 $Beam := 15 \cdot plf$      $Load := (6 \cdot ft) \cdot 6 \cdot ft \cdot (TFL + TRL_1)$      $Load = 4403.913 \cdot lbf$   
 $WLoad := 16 \cdot plf$   
 $F_{bb} := F_b \cdot C_D = 1380 \cdot psi$      $F_{cc} := F_c \cdot C_D$      $F_{cc} = 1150 \cdot psi$      $S_b := \frac{b \cdot d^2}{6}$      $A_b := b \cdot d$   
 $K_e := 1.0$      $l_e := K_e \cdot span$      $l_e = 4 \cdot ft$      $\frac{l_e}{d} = 13.714 <$     **50 OK**  
 $F_{cE} := 0.822 \cdot E_{min} \cdot \left(\frac{d}{l_e}\right)^2$      $F_{cE} = 2534.857 \cdot psi$   
 $f_c := \frac{Load}{A_b}$      $f_c = 359.503 \cdot psi <$      $F_{cE} = 2534.857 \cdot psi$     **OK**  
 $M := \frac{WLoad \cdot span^2}{8}$      $f_b := \frac{M}{S_b}$      $f_b = 53.738 \cdot psi$   
 $c := 0.8$      $C_p := \left(1 + \left(\frac{F_{cE}}{F_{cc}}\right)\right) \cdot \left(\frac{1}{2 \cdot c}\right) - \sqrt{\left(\left(1 + \left(\frac{F_{cE}}{F_{cc}}\right)\right) \cdot \left(\frac{1}{2 \cdot c}\right)\right)^2 - \left(\frac{F_{cE}}{F_{cc} \cdot c}\right)} = 0.882$   
 $F_{cc} := F_{cc} \cdot C_p$      $F_{cc} = 1014.581 \cdot psi$      $\left(\frac{f_c}{F_{cc}}\right)^2 + \left(\frac{f_b}{F_{bb} \cdot \left(1 - \left(\frac{f_c}{F_{cE}}\right)\right)}\right) = 0.171 \leq$     **1.0 OK**  
 $R_b := \sqrt{l_e \cdot \frac{d}{b^2}} = 3.703$      $F_{bE} := 1.20 \cdot \frac{E_{min}}{R_b^2} = 50750 \cdot psi$      $\left(\frac{f_c}{F_{cE}}\right) + \left(\frac{f_b}{F_{bE}}\right)^2 = 0.142 <$     **1.0 OK**

NDS Notation Key	
fcc	= $f_c$
fbb	= $f_b$
Fcc	= $F_c^*$
$F_{cc}$	= $F_c'$
$F_{bb}$	= $F_b'$

**USE 4 X 4 DF#2 Post**