Project Info

Project Description:

Construction of a two-story 1488 ft² single-family residence, a 288 ft² garage, driveway, decks, patio, septic system, and landscaping improvements, on an infill parcel where a previous residence owned by the family was destroyed by fire.

All County and LCP building height, yard setback, and FAR limits are complied with, as well as all FEMA base elevation and design standards. A two-bedroom residence previously existed on the property, until it was destroyed in a 1983 fire. The applicant's family has continuously owned the property since the 1930s.

Applicant:

Brian and Alyce Johnson P.O. Box 1139 Homewood, CA 96141 (530) 525-5129

Design:

CivicKnit P.O. Box 81 Forest Knolls, CA 94933 (415) 307-1370

Civil Engineer:

AYS Engineering Group, Inc P.O. Box 5693 Petaluma, CA 94955 (707) 763-6620

Surveyor:

Cover

Site Plan

L.A. Stevens & Associates, Inc 7 Commercial Blvd Novato, CA 94949 (415) 382-7713

Conceptual Renderings

Residence 1st Floor Plan

Residence 2nd Floor Plan

C1. Grading and Drainage Notes

C4. Erosion and Sediment Control Plan

8. Garage Plan, Elevations, Sections

6. Residence Elevations

9. Exterior Materials

W2.Septic Plan Details

T1. Topographic Survey

10. Landscape Plan

11. Staking Plan

C2. Grading Plan

C3. Drainage Plan

W1.Septic Plan

Residence Sections

Sheet Index

Structural Engineer:

Paul Krohn P.O. Box 113 Fairfax, CA 94978 (530) 342-2926

Coastal Engineer:

Noble Consultants, Inc 2420 Mountain Ranch Road Petaluma, CA 94954 (415) 884-0727

CEQA (Wastewater System)

WRA, Inc 2169-G East Francisco Blvd San Rafael CA, 94901 (415) 454-8868

Geotechnical Engineer:

Murray Engineers, Inc 409 4th St San Rafael, CA 94901 (415) 888-8952

PN: 195-162-49 Lot Area: 15,200 ft² (0.36 Acres) Zoning Information: C-R2 - Residential; 2 Family

Latitude: 37.899 **Latitude:** -122.645

Square Footage (Proposed):

Residence:	1563 ft²	Garage:	288 ft²		
Concrete Slab:	498 ft ²	Permeable Paving:	916 ft²	Lot Coverage, Impervious:	0.13
Deck / Stairs:	528 ft ²	House Footprint:	1151 ft²	Lot Coverage, Pervious:	0.06
SBCWD Defined:	1389 ft²	Existing Coverage:	10 ft²	Total Proposed Coverage:	3381 ft²

Minimum Setbacks for Residence:

Front:	25'
Rear:	16' (20% lot depth)
Side:	6'
Rear Deck:	10'
Front Porch:	19'

Minimum Setbacks for Accessory:

Maximum heights:

Residence: 25'
Accessory: 15'
Retaining wall: 4'
Boundary Fence: 6'

Maximum FAR: 0.3

Grading Calculations: Cut: 39.81 CY Fill: 66.52 CY Import: 26.71 CY

On-Site Parking Required: 3 spaces

FEMA Flood Zones: VE, A0 (See Sheet 3)

Proposed Residence Setbacks:

Front:	25′
Rear:	24'
Side:	25′
Rear Deck:	19′
Trellis:	20′

Proposed Accessory Setbacks:

Front:	30'
Back:	25′
Side:	29'

Proposed Heights:

Residence: 24′ 5″
Accessory: 13′
Retaining wall: 4′
Boundary Fence: 6′

Proposed FAR: 0.11

Average Slope: 7.13%

Driveway Slope: 12% maximum

Proposed Parking: 3 spaces



Aerial View from Street





Proposed Project Location

Sheet 1

2/2/2021

Cover Sheet

Reconstruction of a Residence 21 Calle del Onda, Stinson Beach, CA









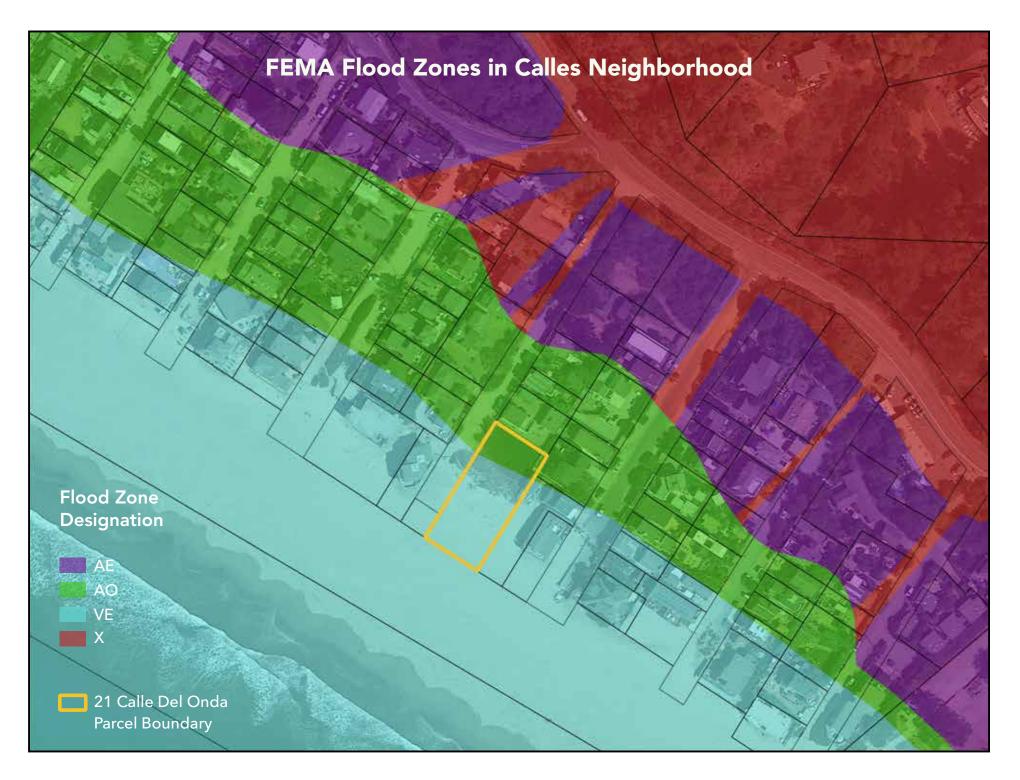
Coastal Guidance

In July 2020, the Stinson Beach County Water District (SBCWD) approved a septic system design and confirmed water service availability, subject to receipt of building permits from Marin County. A Mitigated Negative Declaration (MND) for the septic system application was prepared by WRA Associates in 2020, and approved by the SBCWD Board of Directors in July, 2020.

To address Storm and Sea Level Rise Hazards, Noble Consultants, Inc. prepared a Coastal Engineering Analysis in June 2016. Their report was updated in 2020. Murray Engineers prepared a Geotechnical Analysis that will inform the buildings' foundation systems in January 2021.

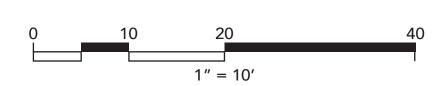
FEMA VE Zone Requirements

- 1) Extend open foundation system to minimum Base Flood Elevation of 18' 2"
- 2) Entry foyer walls shall be designed to break away without transfering loads to the structure
- 3) Construction materials beneath the Base Flood Elevation shall be flood resistant
- 4) No Utilities shall be located in flood resistant walls
- 5) Building elements and enclosures below the elevated building will be designed and constructed to break away from the structure and not transfer any loads to the elevated building nor the foundation system



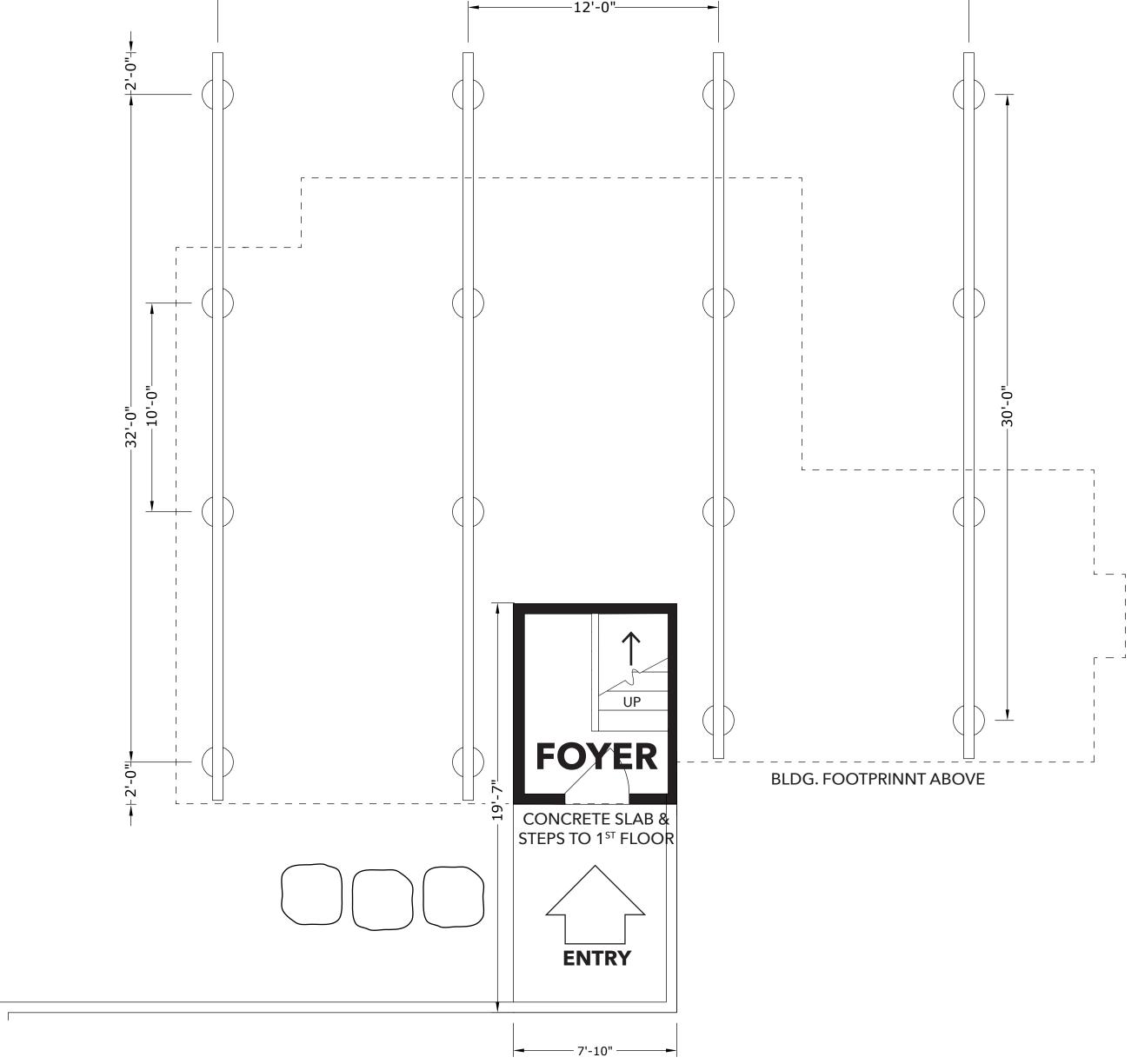
Additional Notes

- Driveway and patio pavers are permeable, with runoff factor of ≤ 0.5
- For fence and wall details see Landscaping Plan, Sheet 3





CivicKnit



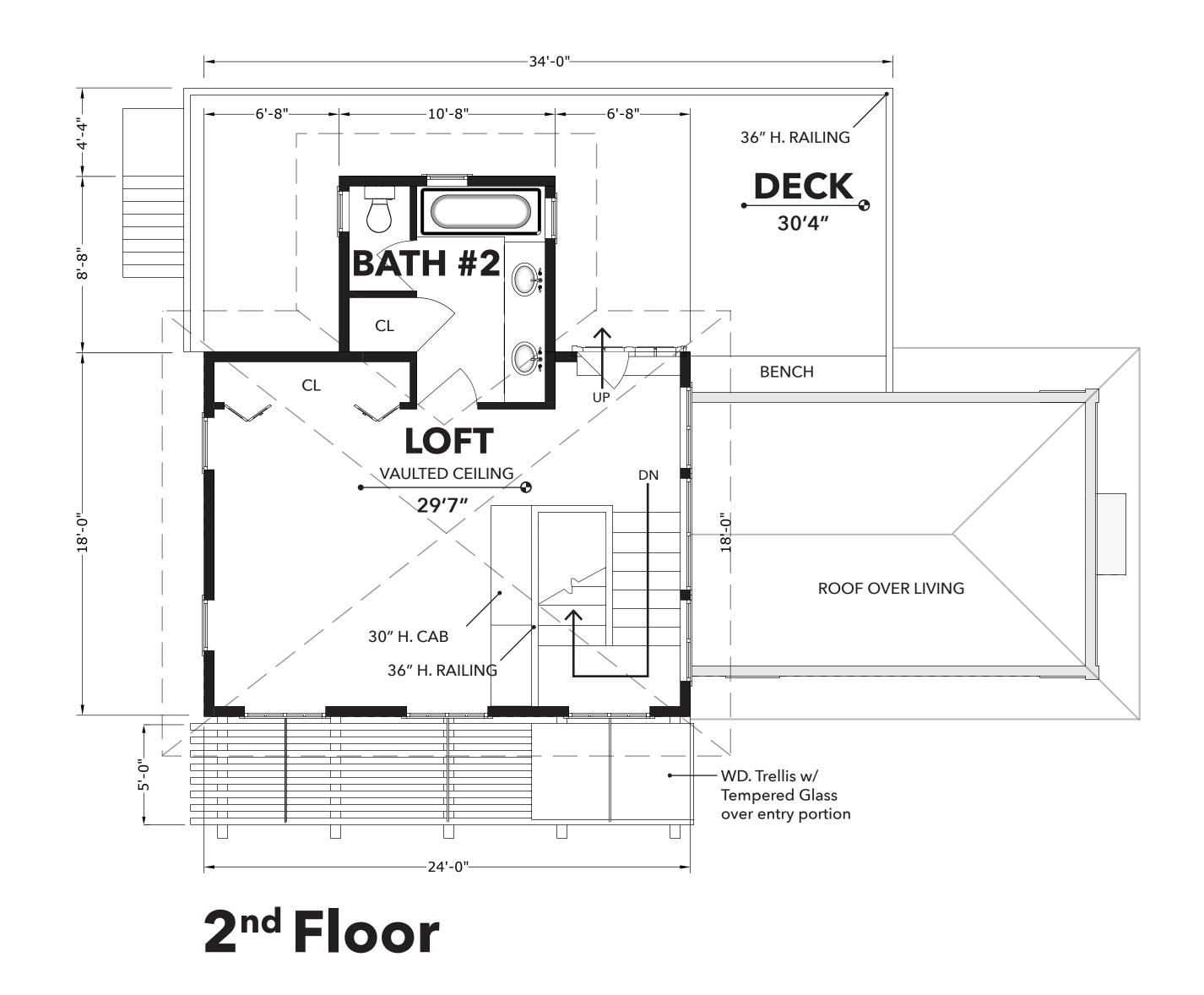
Entry Level

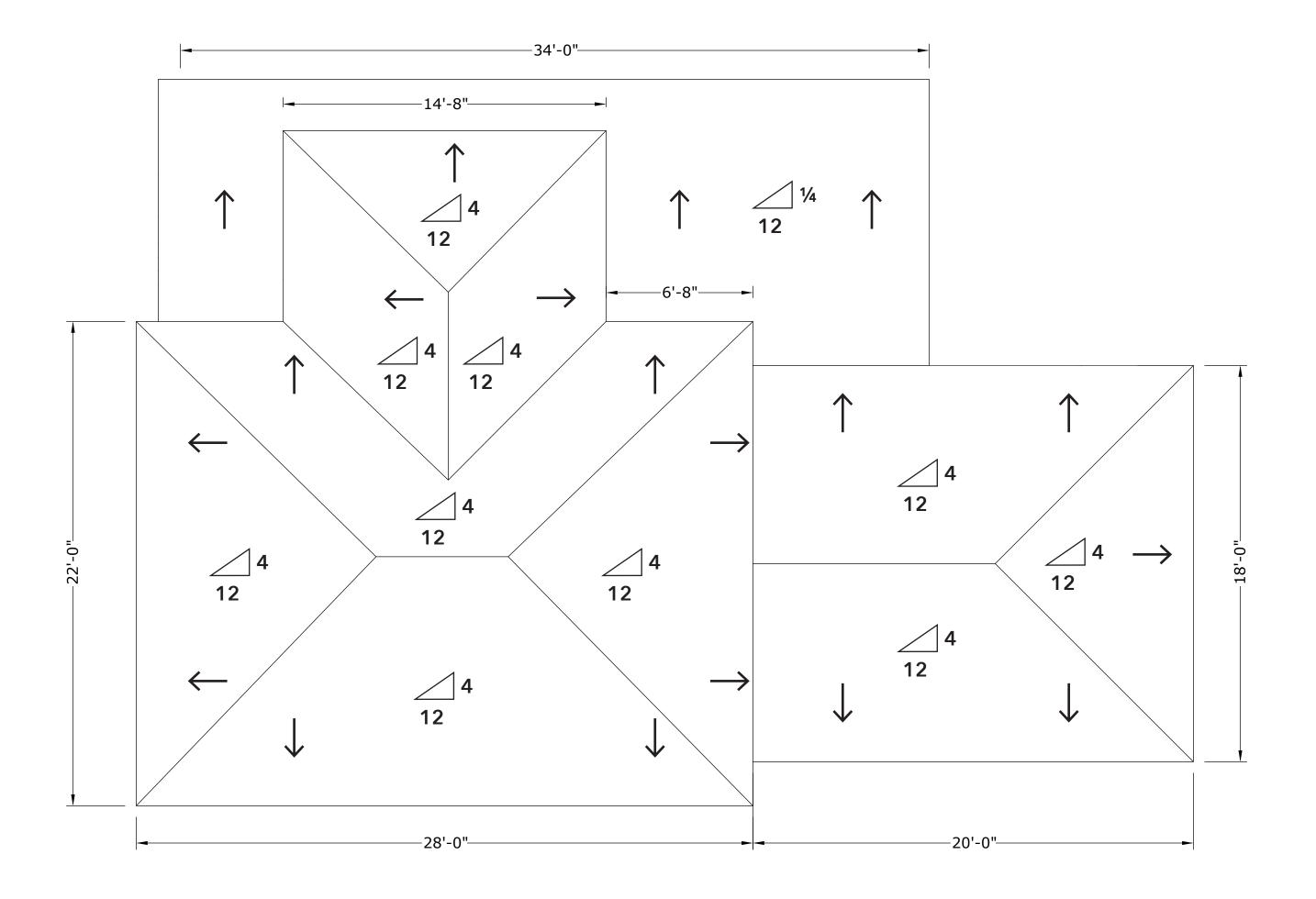
PATIO PERMEABLE PAVERS 36" H. RAILING **DECK** 20'2" KIT. **DINING** 8'-0" CEILING FOLDING DOOR SYSTEM 36" H. COUNTER 7'-6" CEILING **BATH #1**7'-6 " ceiling 30" H. COUNTER **LIVING** VAULTED CEILING BR 20'3" 8'-0" CEILING -24'**-**0"-STONE STEPS **ENTRY**

1st Floor



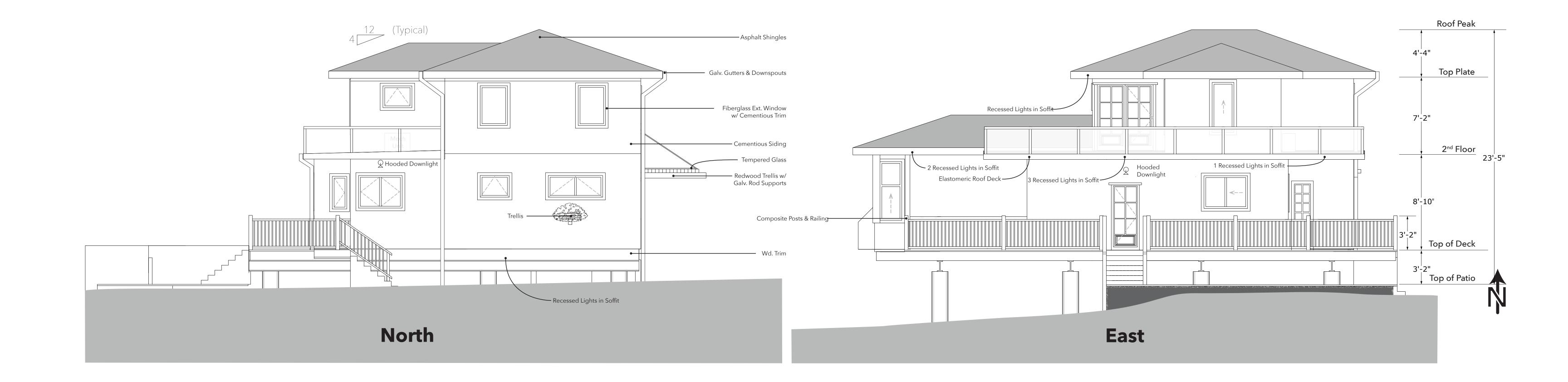


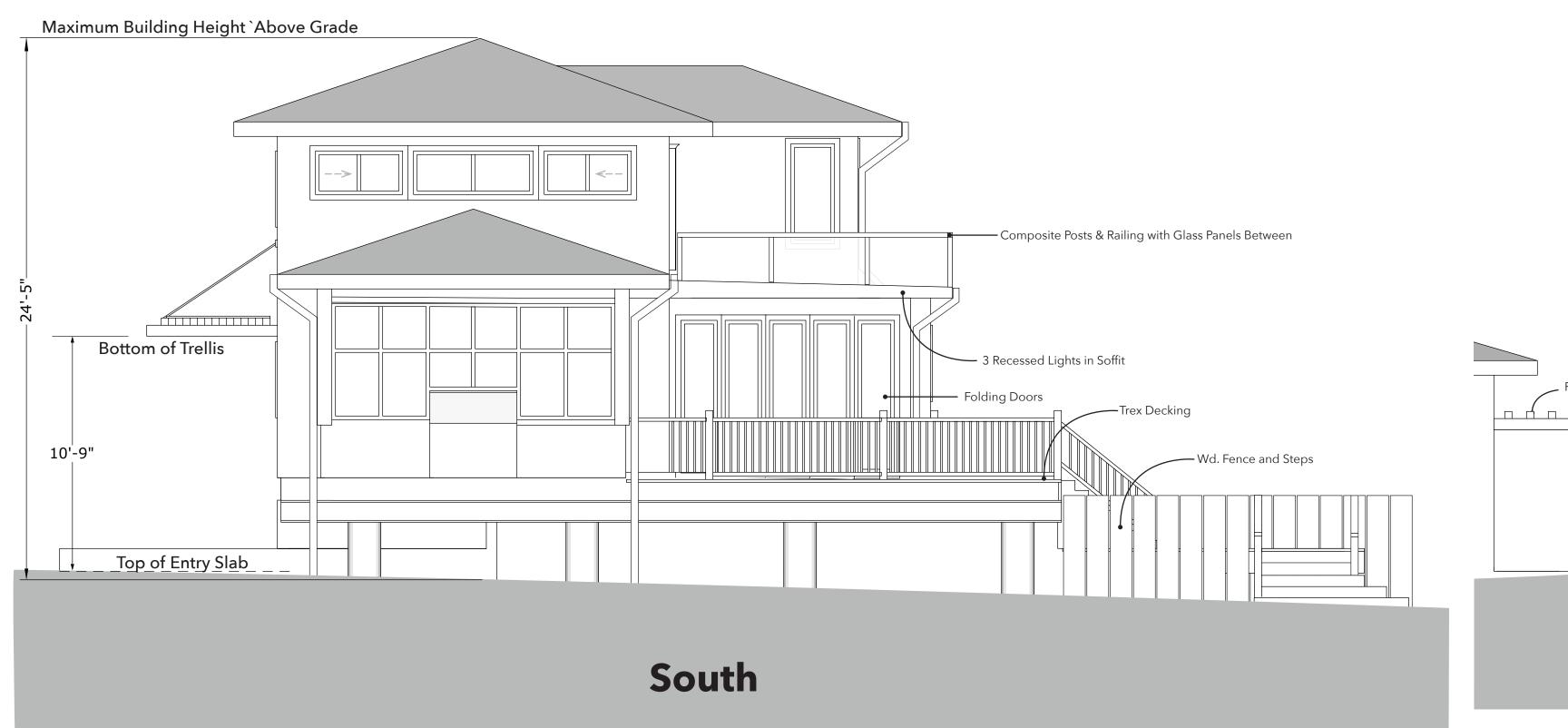




Roof Plan

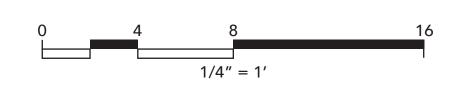
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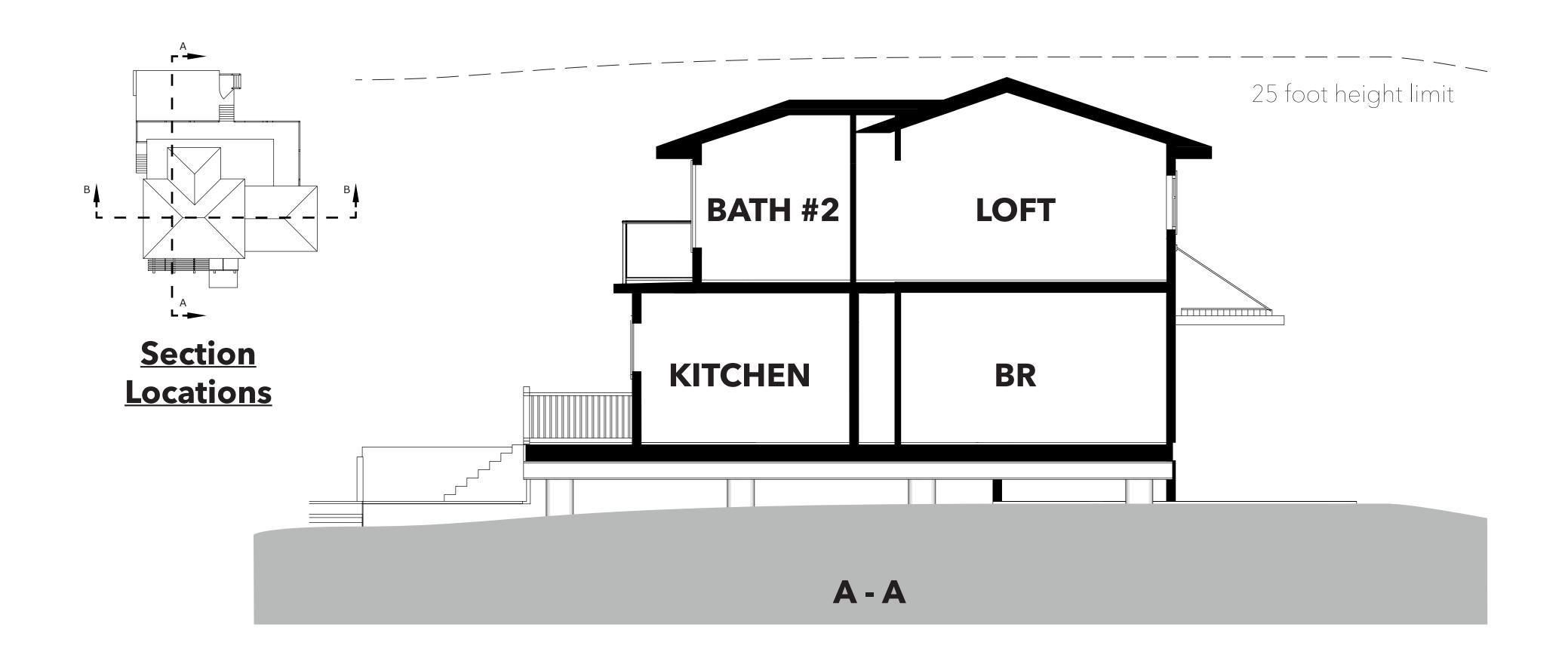


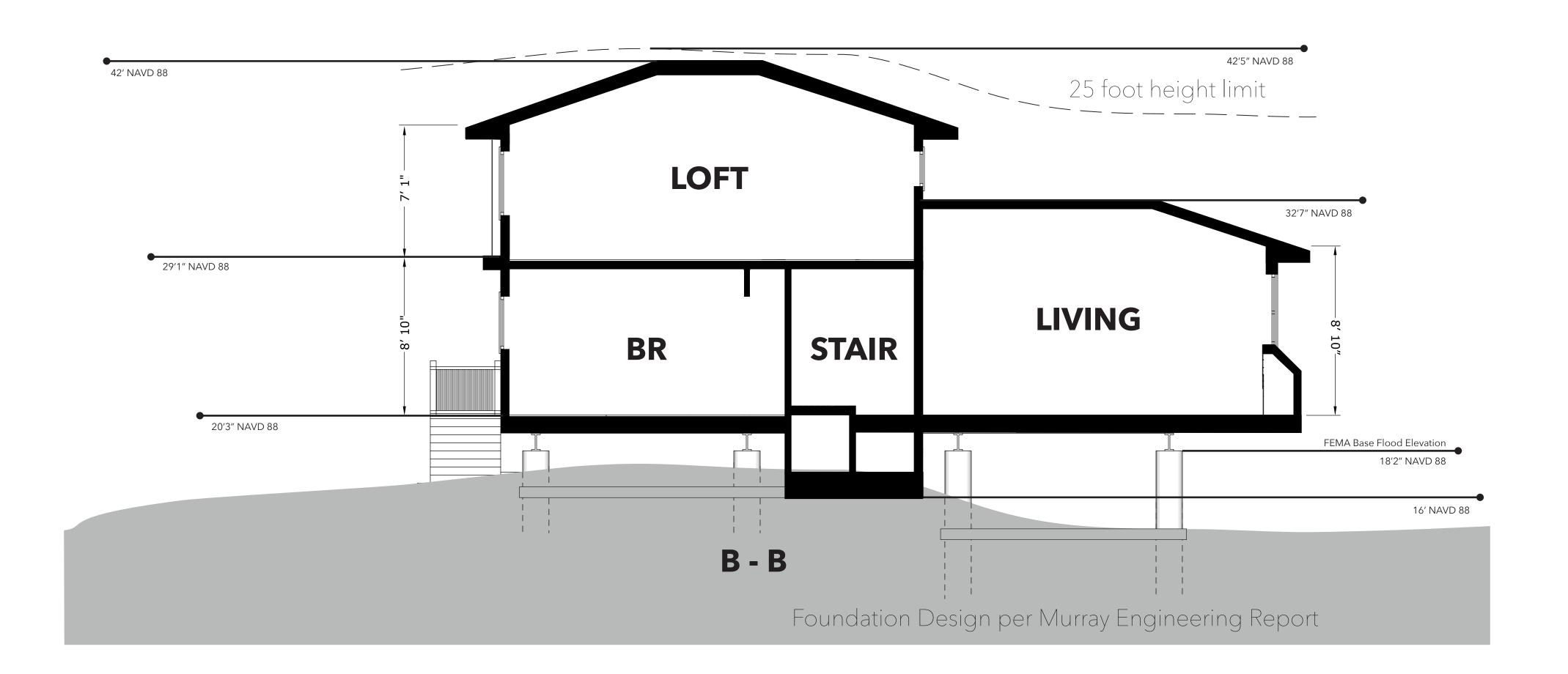






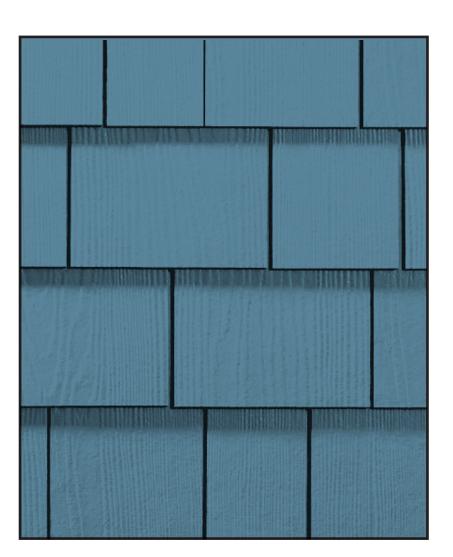








Siding



Exterior siding will be HardieShingle fiber cement shake siding

Lighting Fixtures





Exterior lighting will consist of recessed soffit lights and hooded down lights to minimize light pollution

Roofing



Asphalt composite shingles will be used on all pitched roof areas



The roof above the kitchen will be an accessible deck, made of a tan PVC sheet membrane

Decking

Driftwood colored Trex composite decking will be used for all decks and exerior stairs



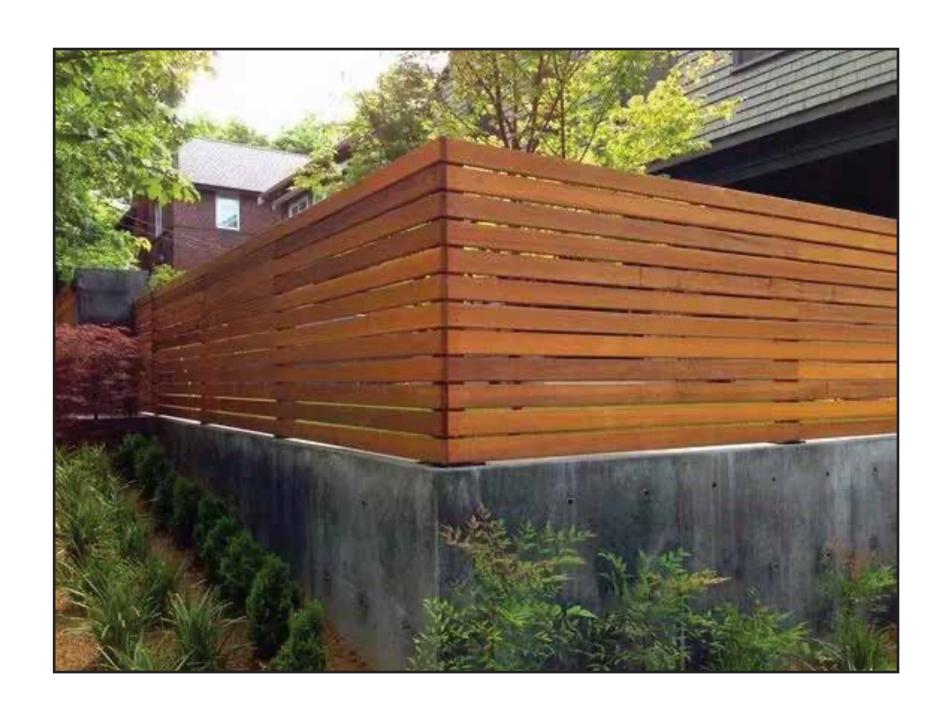
Fencing

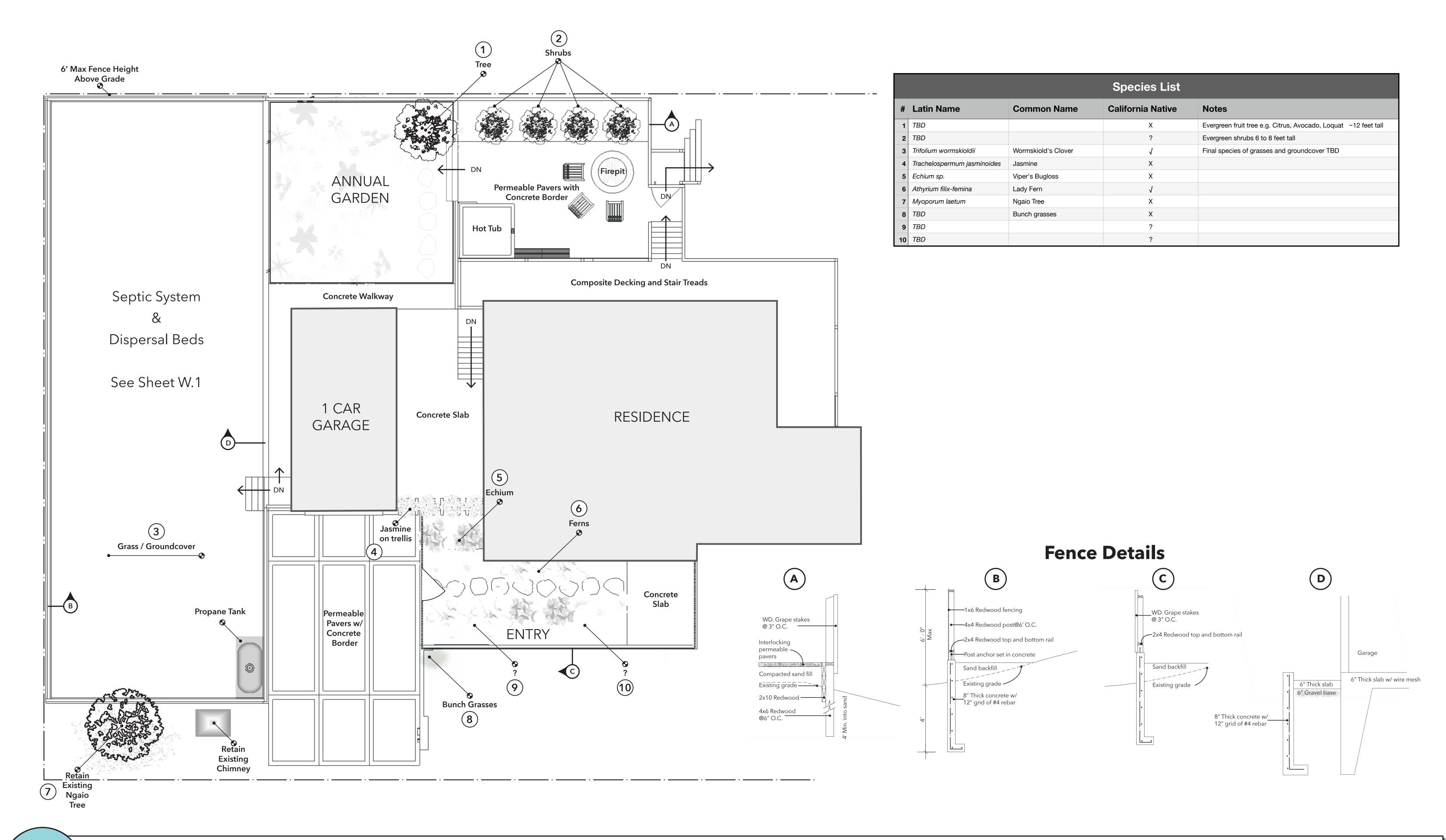


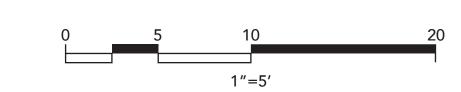
Grape stake fencing will be used near the house entrance.

Redwood fencing will be used around the perimeter of the septic area and at the rear of the garden and patio areas.

In some locations these wooden fences will sit atop concrete retaining walls



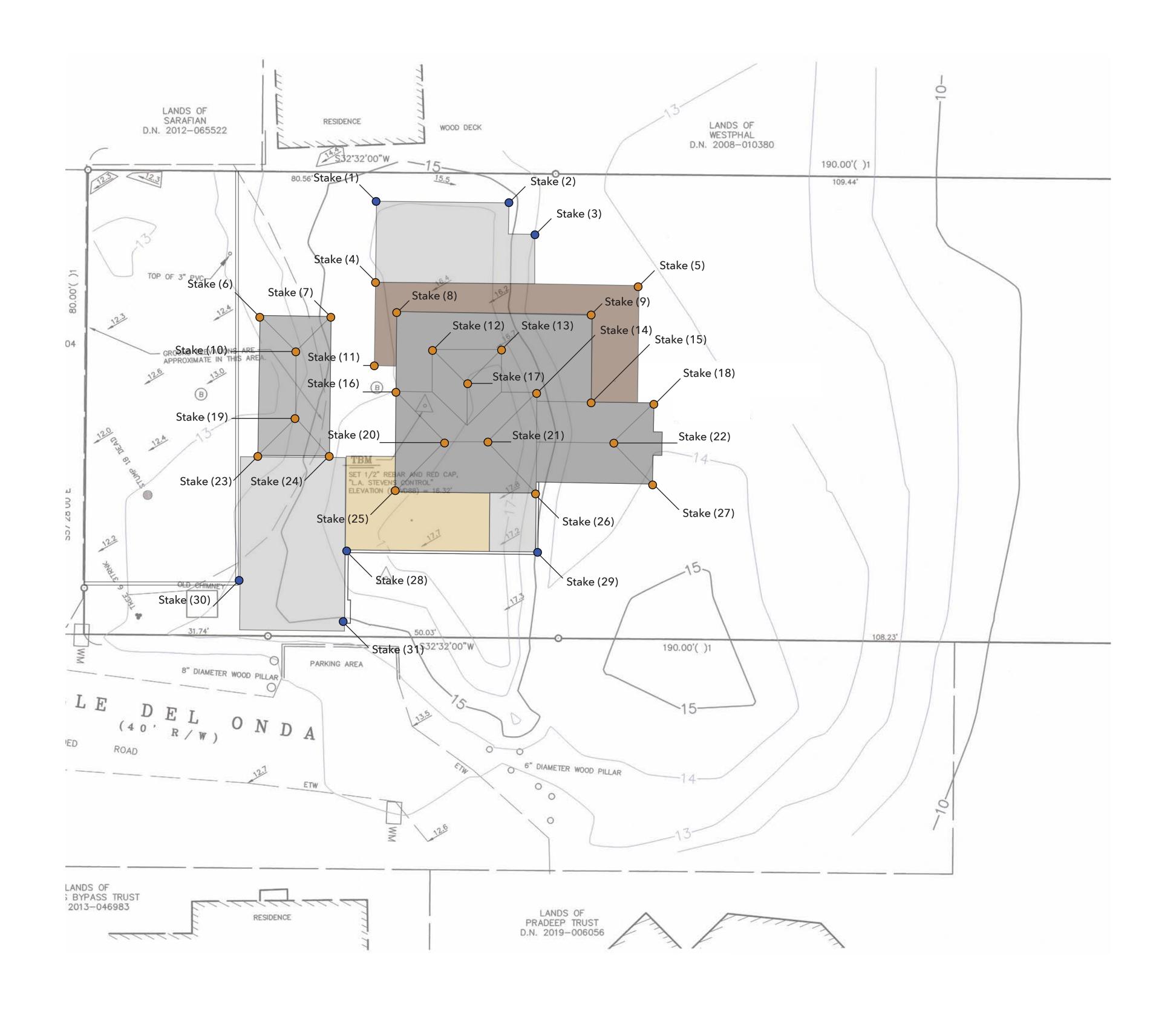






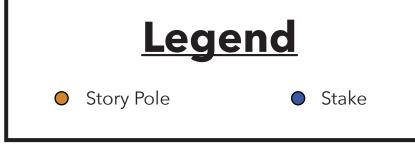


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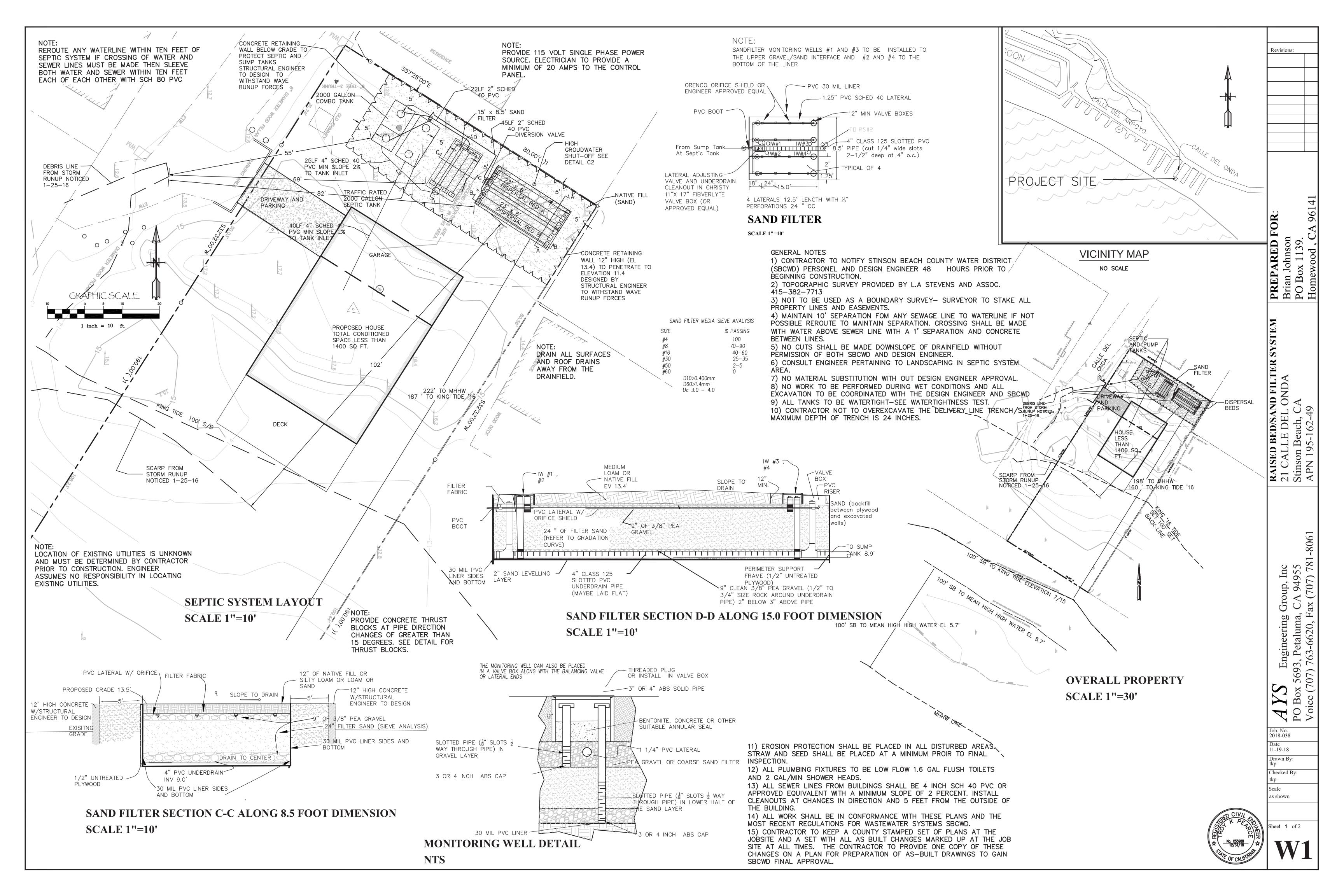
		Stake and Story	Pole Heights
#	Elevation	Height Above Grade	Notes
1	N/A	12"	Patio area boundary
2	N/A	12"	Patio area boundary
3	N/A	12"	Patio area boundary
4	20' 2"	4' 4"	Perimeter of deck, not including rail height
5	20' 2"	7'	Perimeter of deck, not including rail height
6	26'	12' 9"	Height at low edge of garage roof
7	26'	10' 10"	Height at low edge of garage roof
8	28' 6"	12' 5"	Height at low edge of kitchen roof deck
9	28' 6"	14' 11"	Height at low edge of kitchen roof deck
10	28'	14' 2"	Height at peak of garage roof
11	20' 3"	4' 7"	Perimeter of deck, not including rail heigh
12	36' 7"	20' 1"	Height at low edge of loft roof
13	36' 7"	20' 1"	Height at low edge of loft roof
14	36' 7"	20' 11"	Height at low edge of loft roof
15	28' 6"	14' 8"	Height at low edge of kitchen roof deck
16	36' 7"	20' 7"	Height at low edge of loft roof
17	40' 9"	23' 9"	Height at low peak of loft roof
18	32' 7"	18' 11"	Height at low edge of living room roof
19	28'	13' 11"	Height at peak of garage roof
20	42'	25' 1"	Height at peak of loft roof
21	42'	24' 7"	Height at peak of loft roof
22	32' 7"	18' 11"	Height at peak of living room roof
23	26'	12' 4"	Height at low edge of garage roof
24	26'	12' 3"	Height at low edge of garage roof
25	36' 7"	19' 9"	Height at low edge of loft roof
26	36' 7"	21' 1"	Height at low edge of loft roof
27	32' 7"	18' 5"	Height at low edge of living room roof
28	18' 0"	1' 10"	Entry boundary
29	18' 0"	3' 0"	Entry boundary
30	19' 0"	6' 0"	Driveway boundary
31	18' 0"	3' 0"	Driveway boundary

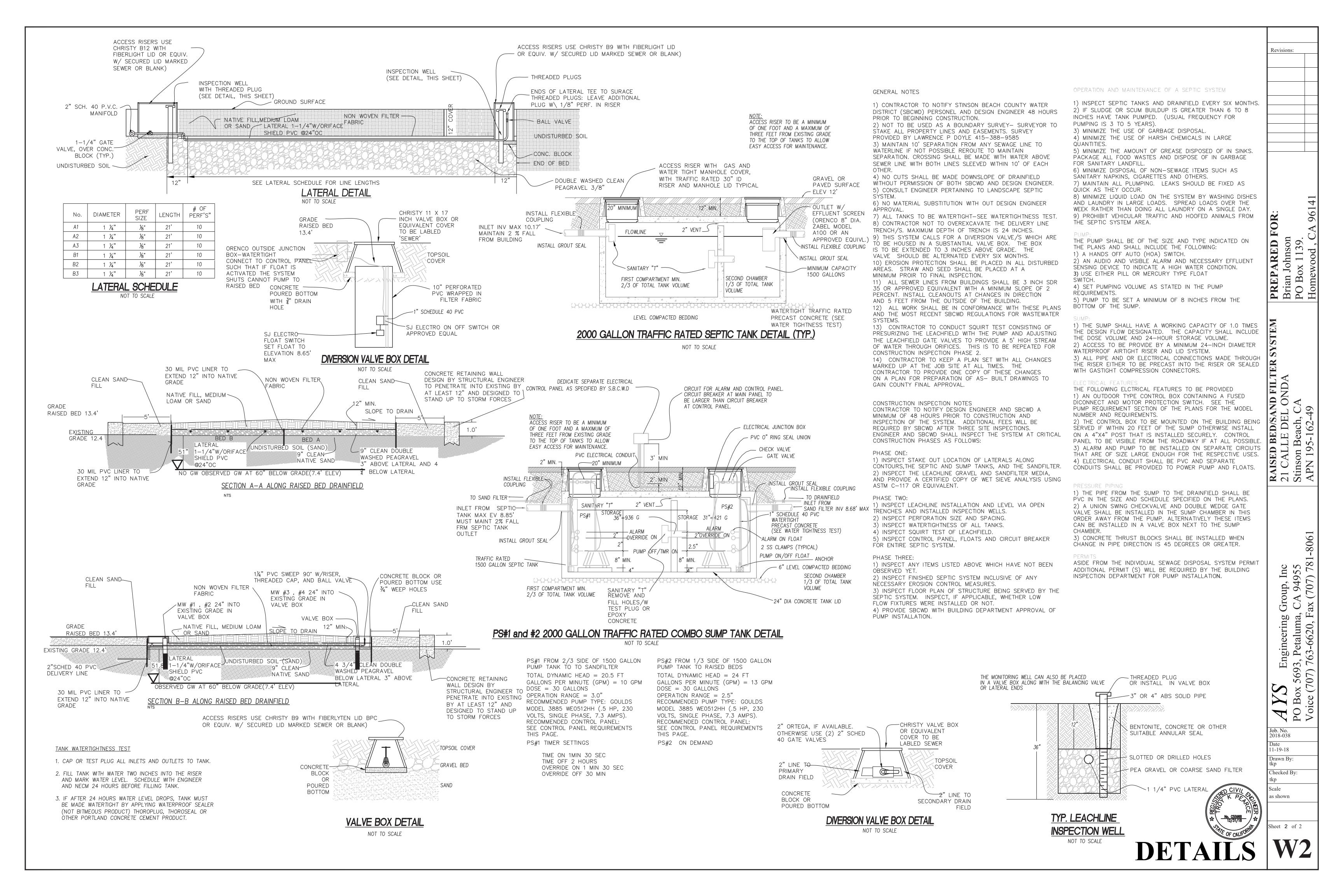












GENERAL NOTES

CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE 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 THE OWNERS AND DESIGN ENGINEER 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 AND DESIGN ENGINEER.

ALL MATERIAL, WORKMANSHIP, AND CONSTRUCTION SHALL CONFORM TO THE STATE OF CALIFORNIA STANDARD SPECIFICATIONS AND STANDARD PLANS (DATED JULY 1992) AND THE CURRENT MARIN COUNTY UNIFORM CONSTRUCTION STANDARDS AND SPECIFICATIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING UNDERGROUND SERVICE ALERT (U.S.A.) CALL TOLL FREE (800) 642-2444 AT LEAST 48 HOURS PRIOR TO EXCAVATION. CONTRACTOR TO UNCOVER EXISTING BURIED UTILITIES WITH UTILITY OWNER TO VERIFY LOCATION AND ELEVATION. BURIED UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER, SEWER, GAS, ELECTRICAL AND TELEPHONE. ALL UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION.

CONTRACTOR SHALL OBTAIN A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE EXCAVATION OF ANY TRENCH GREATER THAN FIVE FEET IN DEPTH.

ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED AND APPROVED PRIOR TO ROAD SURFACING.

NOT TO BE USED AS BOUNDARY SURVEY. TOPOGRAPHIC SURVEY PROVIDED BY PACIFIC LAND SURVEYS, BODEGA CA 707-875-3208

ALL TREES TO REMAIN SHALL BE FENCED AS DIRECTED BY ARBORIST OR COUNTY PRIOR TO BEGINNING OF CONSTRUCTION. NO TREES OF PERMIT SIZE TO BE REMOVED WITHOUT OBTAINING A TREE REMOVAL PERMIT.

TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CALTRANS MANUAL OF TRAFFIC CONTROL DEVICES AND AS DIRECTED BY ENGINEER.

PROPERTY LINES, RIGHT OF WAY AND EASEMENTS TO BE FLAGGED PRIOR TO CONSTRUCTION.

GRADING NOTES

CONTRACTOR SHALL ENLIST THE SERVICES OF A REGISTERED GEOTECHNICAL ENGINEER TO MONITOR THE PLACEMENT OF EMBANKMENTS. THE GEOTECHNICAL ENGINEER SHALL SUBMIT A FINAL SOILS REPORT THAT CERTIFIES THAT THE EMBANKMENTS WERE PLACED IN ACCORDANCE WITH THE PROJECT PLANS (AND AMENDMENTS THERETO, IF ANY), SPECIFICATIONS, AND SOUND GEOTECHNICAL PRACTICE. THE REPORT SHALL ADDRESS IN PARTICULAR THE SUSTAINABILITY OF THE NATIVE SOIL ENCOUNTERED AT THE TOE AND BASE OF ALL FILLS. FURTHER, THE REPORT SHALL CONTAIN ANALYSIS OF THE SOILS ENCOUNTERED AND A COMPILATION OF COMPACTION TESTS PERFORMED.

CUT SLOPES SHALL BE EQUAL TO OR LESS THAN 2:1. WITH A GEOTECHNICAL ENGINEER'S WRITTEN PERMISSION, WEATHERED ROCK CUTS MAY BE STEEPENED. FILL SLOPES SHALL BE EQUAL TO OR LESS THAN 2:1 OR REINFORCED WITH GEOGRID PER THE GEOTECHNICAL ENGINEER'S RECOMENDATIONS IF STEEPER THAN 2:1 AND SHALLOWER THAN 1:1.

ALL EXCESS SOIL MATERIAL, STUMPS, AND BOULDERS SHALL BE REMOVED AND DISPOSED OF IN ACCORDANCE WITH ANY ENVIRONMENTAL REGULATIONS AND THE PERMITING AGENCY'S GRADING ORDINANCE AS THEY MAY APPLY.

IF CONSTRUCTION IS PERFORMED EARLIER THAN MAY 1ST OR LATER THAN OCTOBER 1ST IN ANY GIVEN YEAR, AN APPROVED SILTATION CONTROL PLAN, DESIGNED BY A CIVIL ENGINEER OR APPROVED, COMPETENT INDIVIDUAL IS REQUIRED.

STRUCTURAL SECTION NOTES

ACTUAL DIMENSION OF THE DRIVEWAY PAVEMENT SECTION SHALL BE DESIGNED BY THE SOILS ENGINEER.

THE ROAD SUBGRADE WITHIN THE ROADWAY SECTION SHALL BE SCARIFIED TO A DEPTH OF SIX INCHES AND COMPACTED TO A TIGHT NON-YIELDING SURFACE WITH NO VISIBLE DISPLACEMENT TO AT LEAST 95% OF RELATIVE COMPACTION AND SHALL BE FREE OF LOOSE OR EXTRANEOUS MATERIAL.

THE CLASS II AGGREGATE BASE SHALL HAVE A RELATIVE COMPACTION OF AT LEAST 95%. SHALL BE FREE OF LOOSE OR EXTRANEOUS MATERIAL AND BE A TIGHT NON-YIELDING SURFACE WITH NO VISIBLE DISPLACEMENT.

THE ASPHALT CONCRETE SHALL HAVE A RELATIVE COMPACTION OF AT LEAST 95%.

A SOILS ENGINEER SHALL TEST, AND APPROVE THE CONSTRUCTION OF ROADS, AND, IF REQUIRED, PARKING AREAS. THE SOILS ENGINEER SHALL PROVIDE COPIES OF THE TEST RESULTS AND WRITTEN APPROVALS TO THE COUNTYS INSPECTOR WITHIN THREE WORKING DAYS OF TESTING OR APPROVAL. THE APPROVAL SHALL INCLUDE THE STABILITY AND RELATIVE DENSITY OF SUBGRADES AND BASE COURSES PRIOR TO THE PLACEMENT OF ASPHALT CONCRETE. A FINAL SOILS REPORT SHALL BE SUBMITTED BY THE PROJECT SOILS ENGINEER TO THE CONSTRUCTION INSPECTION SUPERVISOR OF THE PERMIT AND RESOURCE MANAGEMENT DEPARTMENT WHICH CONTAINS AN ANALYSIS OF THE SOILS ENCOUNTERED AND COMPILATION OF COMPACTION TESTS PERFORMED.

STORM DRAIN NOTES

TRENCH AND BACKFILL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CALTRANS' STANDARD PLAN A62-D FOR CONCRETE CULVERTS AND A62-F FOR METAL AND PLASTIC CULVERTS, EXCEPT THAT THE TRENCH WIDTH NEED ONLY BE ONE FOOT ON EACH SIDE OF THE PIPE.

ALL DRAINAGE PIPE IN DRIVEWAY SHALL HDPE TYPE N AASHTO RATED OR SDR35. GRATES IN DRIVEWAY AREA SHALL BE TRAFFIC RATED. DRAINAGE INLETS SHALL BE OF THE SIZE OR TYPE CALLED OUT AND CAN BE PRECAST OR POURED IN PLANCE. CLEANOUTS REQUIRED EVERY 100 FEET AND AT ANY PIPE DIRECTION CHANGE 45 DEGREES OR GREATER.

ALL ROOF DRAINS SHALL BE TIED INTO STORM DRAINAGE SYSTEM AND SEPERATED FROM FOUNDATION DRAINS.. RAINWATER LEADERS SHALL HAVE AND FOUNDATION DRAINS SHALL HAVE CLEANOUTS AT ALL CHANGES IN DIRECTION GREATER THAN 44DEGREES.

FOUNDATION SUBDRAINS SHALL BE SEPERATE PIPING SYSTEMS TO OUTFALL FROM SURFACE DRAINS/ROOF DRAINS

MISCELLANEOUS NOTES

TESTING FOR RELATIVE DENSITIES SHALL BE IN ACCORDANCE WITH CALTRANS' TEST METHOD NO. 216 PART II OR ASTM 1557. THE USE OF SAND CONE METHODS - SUCH AS ASTM 1556 OR CALTRANS 216 PART I -SHALL NOT BE ALLOWED.

PLACEMENT OF MAIL BOXES IS TO BE COORDINATED WITH AND APPROVED BY THE LOCAL BRANCH OF THE UNITED STATES POST OFFICE.

DESIGN ENGINEER SHALL CERTIFY TO THE COUNTY IN WRITING THAT ALL GRADING, DRAINAGE, AND RETAINING WALL CONSTRUCTION WAS DONE IN ACCORDANCE WITH THE PLANS AND FIELD DIRECTIONS. ALSO NOTE THAT DRIVEWAY, PARKING AND OTHER SITE IMPROVEMENTS SHALL BE INSPECTED BY A DEPARTMENT OF PUBLIC WORKS ENGINEER.

ADDITIONAL GENERAL NOTES

UNAUTHORIZED CHANGES & USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PUBLIC WORKS DEPARTMENTNT DEPARTMENT AND THE PREPARER OF THESE PLANS.

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY: THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

THE LOCATIONS OF UNDERGROUND OBSTRUCTIONS SHOWN ON THE PLANS ARE APPROXIMATE ONLY AND SHOULD NOT BE TAKEN AS FINAL OR ALL INCLUSIVE. THE CONTRACTOR IS CAUTIONED THAT THE PLANS MAY NOT INCLUDE ALL EXISTING UTILITIES AND THAT THE OWNER AND ENGINEER ASSUME NO RESPONSIBILITY FOR OBSTRUCTIONS WHICH MAY BE ENCOUNTERED.

THE CONTRACTOR MUST EXPOSE ALL EXISTING UTILITIES AS A FIRST ORDER OF WORK, INCLUDING SEWER AND STORM DRAINS, TO VERIFY DESIGN ASSUMPTIONS AND EXACT FIELD LOCATION.

EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS.

THE CONTRACTOR IS CAUTIONED NOT TO ORDER PRECAST ITEMS OR INSTALL ANY IMPROVEMENTS UNTIL ALL CONFLICTS ARE RESOLVED. ALL IMPROVEMENTS INSTALLED OR ORDERED PRIOR TO CONFLICT RESOLUTION SHALL BE DONE SOLELY AT THE CONTRACTOR'S RISK AND AT NO EXPENSE TO THE OWNER.

THE CONTRACTOR SHALL RECOGNIZE THAT UNDERGROUND FACILITIES NOT SHOWN AS CIVIL IMPROVEMENTS (PG&E, TELEPHONE, TELEVISION, IRRIGATION, ETC.) SHALL BE COORDINATED AND CONSTRUCTED PRIOR TO PLACEMENT OF BASE ROCK AND PAVING.

ALL EARTHWORK AND SITE GRADING SHALL COMPLY WITH CHAPTER 33 AND APPENDIX CHAPTER 33 OF THE CALIFORNIA BUILDING CODE.

PRIOR TO BEGINING CONSTRUCTION, THE OWNER SHALL OBTAIN ALL NECESSARY AGREMENTS & EASEMENTS AS REQUIRED TO COMPLETE THE

ABBREVIATIONS

AGGREGATE BASE ASPHALT CONCRETE ВС BEGIN HORIZONTAL CURVE BOW BASE OF WALL BEGIN VERTICAL CURVE BVC CENTERLINE C,G;C&G CURB AND GUTTER CATCH BASIN CLEANOUT CONC CONCRETE DRAINAGE INLET END HORIZONTAL CURVE EXISTING GROUND END VERTICAL CURVE EVC EXISTING EXIST EXISTING FLOWLINE FINISHED FLOOR FINISHED GRADE FΗ FIRE HYDRANT GB GRADE BREAK HIGH POINT Ht. EXPOSED FACE HEIGHT OF WALL INV INVERT

JOINT TRENCH MAXIMUM МН MAN HOLE NOT APPLICABLE NOT TO SCALE OVERHEAD

PORTLAND CEMENT CONCRETE POC POINT ON CURVE POINT OF REVERSE CURVATURE PUE PUBLIC UTILITY EASEMENT PVC POLYVINAL CHLORIDE

POINT OF VERTICAL INTERSECTION R/W RIGHT OF WAY RĆP REINFORCED CONCRETE PIPE SEWER

SIDEWALK STORM DRAIN SOG SLAB ON GRADE SS SANITARY SEWER SSCO

SANITARY SEWER CLEAN OUT SSMH SANITARY SEWER MAN HOLE STA STATION STD **STANDARD** TOP OF CURB

TEMPORARY **TEMP** TOE TOE OF WALL/SLOPE TOW TOP OF WALL TW TOP OF WALL

TYP TYPICAL

WATER

WATER METER

C1 - TITLE SHEET C2 - GRADING PLAN C3 - DRAINAGE & STORM WATER MANAGEMENT PLAN C4 - EROSION AND SEDIMENT CONTROL PLAN

S1 - SEPTIC SYSTEM LAYOUT S2 - SEPTIC SYSTEM DETAILS

VICINITY MAP NO SCALE **EXISTING PROPOSED** __^__^__

SHORELINE HIGHWAY

STORM DRAIN/RAIN WATER COLLECTION

FOUNDATION/RET WALL DRAIN RWL COLLECTION SYSTEM WATER SWALE

CLEANOUT C.O. RAINWATER LEADER DS o BACKFLOW PREVENTER BWPC SEWER ——SS——SS—— CABLE

SITE

ELECTRIC SERVICE GAS SERVICE TELECOM SERVICE

—X——X——X——X— ——E ——E ——E —— ——— GAS ——— GAS ——— ____JT_____JT____

EARTHWORK QUANTITIES

EARTHWORK QUANTITIES ARE APPROXIMATE AND FOR PLANNING PURPOSES ONLY. VOLUMES ARE APPROXIMATED FROM EXISTING AND FINISHED GRADE AND DO NOT INCLUDE TRENCH SPOILS, SITE STRIPPING, FOUNDATIONS, KEYWAY EXCAVATIONS OR EXPANSION/CONTRACTION OF SOIL. ACTUAL VOLUMES WILL VARY DEPENDING ON

ESTIMATED QUANTITIES:

CUT 39.81 CY

NET 26.71 CY FILL (IMPORT)

CONTRACTORS METHODS.

LEGEND

CONTOUR-MJR

CONTOUR-MNR

RETAINING WALL

DAYLIGHT

APPROXIMATE BOUNDARY

LINES:

FILL 66.52 CY

PRELIMINARY NOT FOR CONSTRUCTION FOR DESIGN REVIEW ONLY



018-038 10-1-20

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Revisions:

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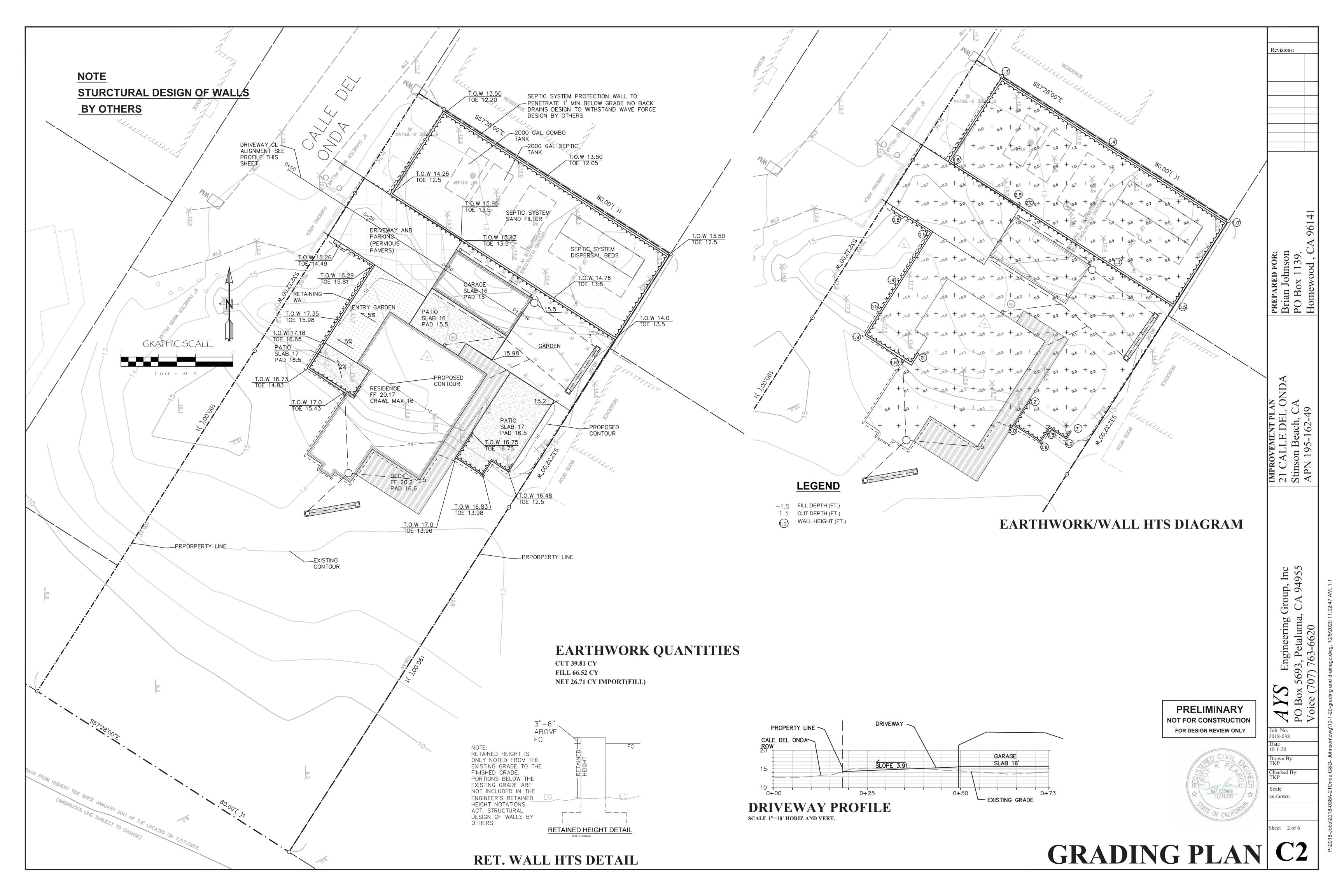
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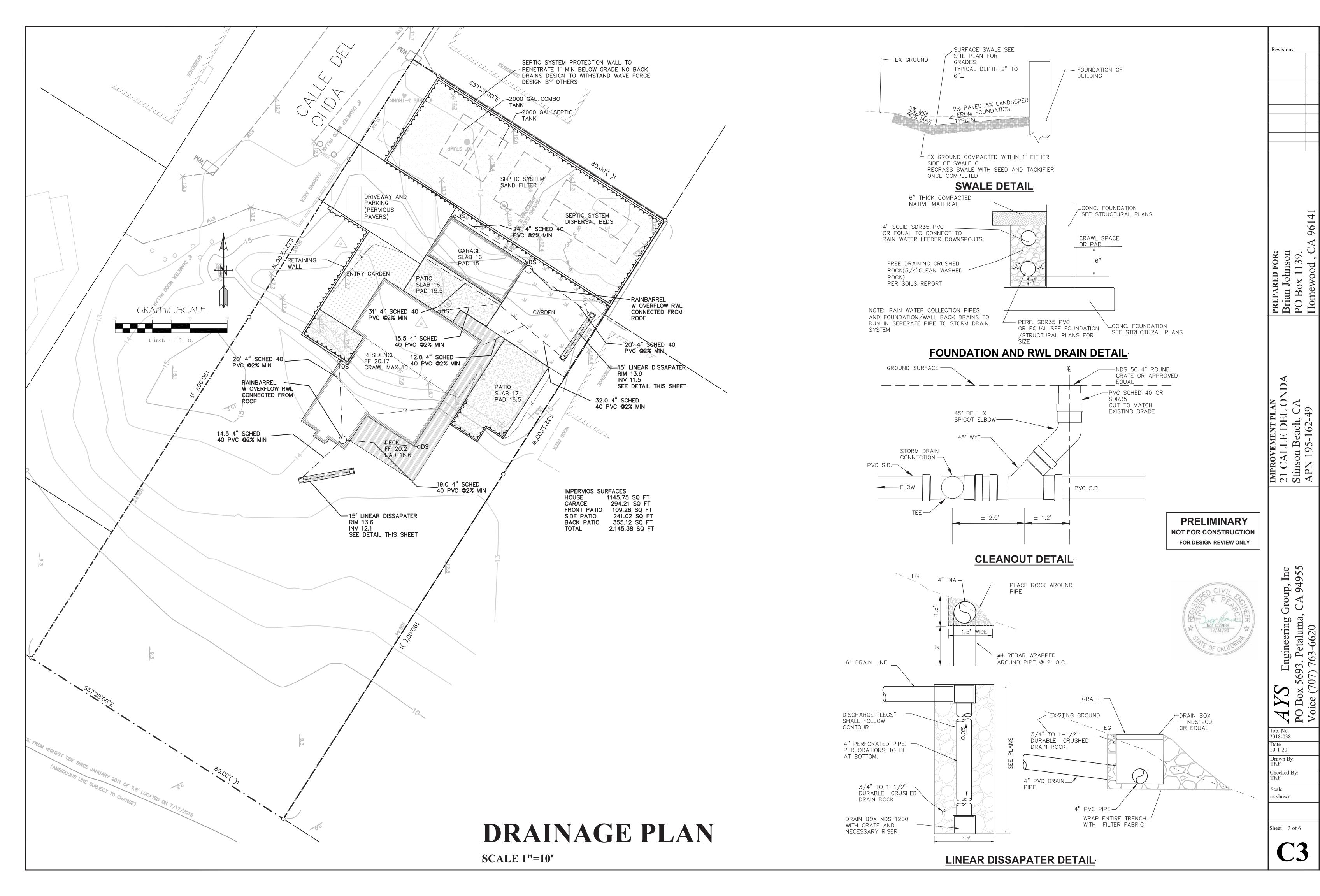
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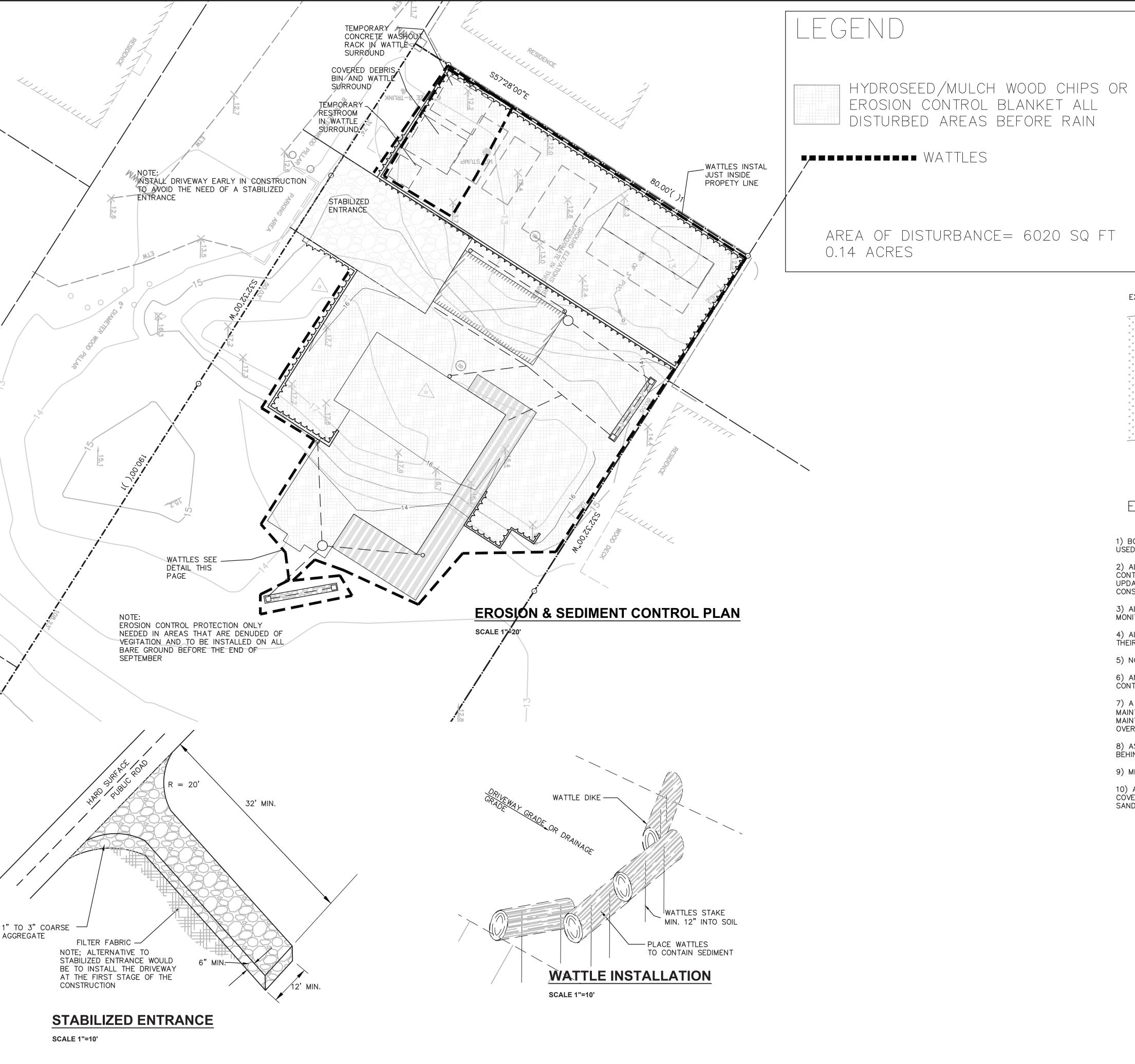
Sheet 1 of 6

TITLE SHEET





2018-Jobs\2018-038A-21Onda G&D- Johnson\dwg\10-1-20-grading and drainage.dwg, 10/5/2020 11:02:17 AM, 1:1



-SPRAY HYDROSEED/MULCH EXPOSED DIRT-

MULCH TO BE BLOWN ONTO EXPOSED EARTH. ANCHOR MULCH USING A TACKIFIER OR BY MECHANICAL MEANS. APPLY AT A RATE OF 4000LBS/ACRE OR USING MANUFACTURER'S RECOMMENDATIONS. MAY ALSO BE HAND MULCHED WITH STRAW TO A DEPTH OF 1" MIN OVER ALL

EROSION CONTROL NOTES

1) BOUNDARY FOR REFERENCE PURPOSES ONLY NOT TO BE

2) ALL MODIFICATIONS TO THIS PLAN AND ALL EROSION CONTROL REPAIRS SHALL BE NOTED ON THIS PLAN AND KEPT UPDATED BY THE CONTRACTOR IN THE FIELD DURING CONSTRUCTION.

3) ALL EROSION CONTROL MEASURES SHALL BE REGULARLY MONITORED AND REPLACED IF NECESSARY.

4) ALL EROSION CONTROL MEASURES SHALL BE CHECKED AND THEIR OPERATION VERIFIED AFTER STORM EVENTS.

5) NO SILT LADEN WATER SHALL LEAVE SITE.

6) ANY MATERIAL OR DEBRIS STOCKPILED ON SITE SHALL BE CONTAINED BY WATTLES AND COVERED.

7) A GRAVEL ACCESSWAY AT LEAST 50' LONG SHALL BE MAINTAINED AT DRIVEWAY ENTRANCE. 6" OF GRAVEL MUST BE MAINTAINED IN THIS AREA AND WILL REQUIRE REPLENISHMENT OVER THE COURSE OF CONSTRUCTION.

8) AS PART OF THE MONITORING, ANY SILT THAT BUILDS UP BEHIND THE WATTLES SHALL BE REMOVED.

9) MINIMIZE THE AMOUNT OF MATERIAL STOCKPILED ON SITE.

10) ANY EXCAVATED MATERIAL STOCKPILED ON SITE SHALL BE COVERED WITH 15 MIL PLASTIC AND THE ENDS HELD DOWN WITH

11) ADDITIONAL SAND BAGS, WATTLES AND OTHER EROSION CÓNTROL MATERIAL SHALL BE STORED ON SITE TO ALLOW FOR

12) A WATTLE DIKE SHALL BE INSTALLED ON THE PROPOSED DRIVEWAY ROUGH GRADE EVERY 10' OF VERTICAL SEPARATION OR MORE OFTEN AS NEEDED TO PREVENT EROSION OF THE PROPOSED DRIVEWAY.

13) REMOVE SEDIMENT WHEN ACCUMULATION REACHES 1/2 OF THE BARRIER HEIGHT.

14) MINIMIZE THE AMOUNT OF EARTHWORK EXPOSED AT ANY

15) INSTALL DRIVEWAY GRAVEL BASE COURSE AS SOON AFTER ROUGH GRADING AS POSSIBLE.

16) PRIOR TO PLACING AC ON ROADWAY OR DRIVEWAY, DRIVEWAYS TO BE USED FOR CONCRETE WASHDOWN. ONCE THE DRIVEWAY IS COMPLETE, USE A DESIGNATED CONCRETE WASH DOWN AREA.

17) HYDROSEED ALL EXPOSED AREAS OF EARTH PRIOR TO START OF RAINY SEASON. IF RAIN IS IMMINENT OR GRASS IS NOT MATURE PRIOR TO OCTOBER 15 COVER EXPOSED EARTH WITH STRAW & TACKIFIER.

18) THE ACTUAL AMOUNT AND TYPES OF EROSION CONTROL DEVICES WILL VARY BASED ON CONSTRUCTION METHODOLOGIES AND STAGING. THIS PLAN SHOWS A MINIMUM REQUIREMENT AND SHOULD BE SUPPLEMENTED AS NEEDED.

> PRELIMINARY NOT FOR CONSTRUCTION FOR DESIGN REVIEW ONLY



EROSION & SEDIMENT CONTROL PLAN

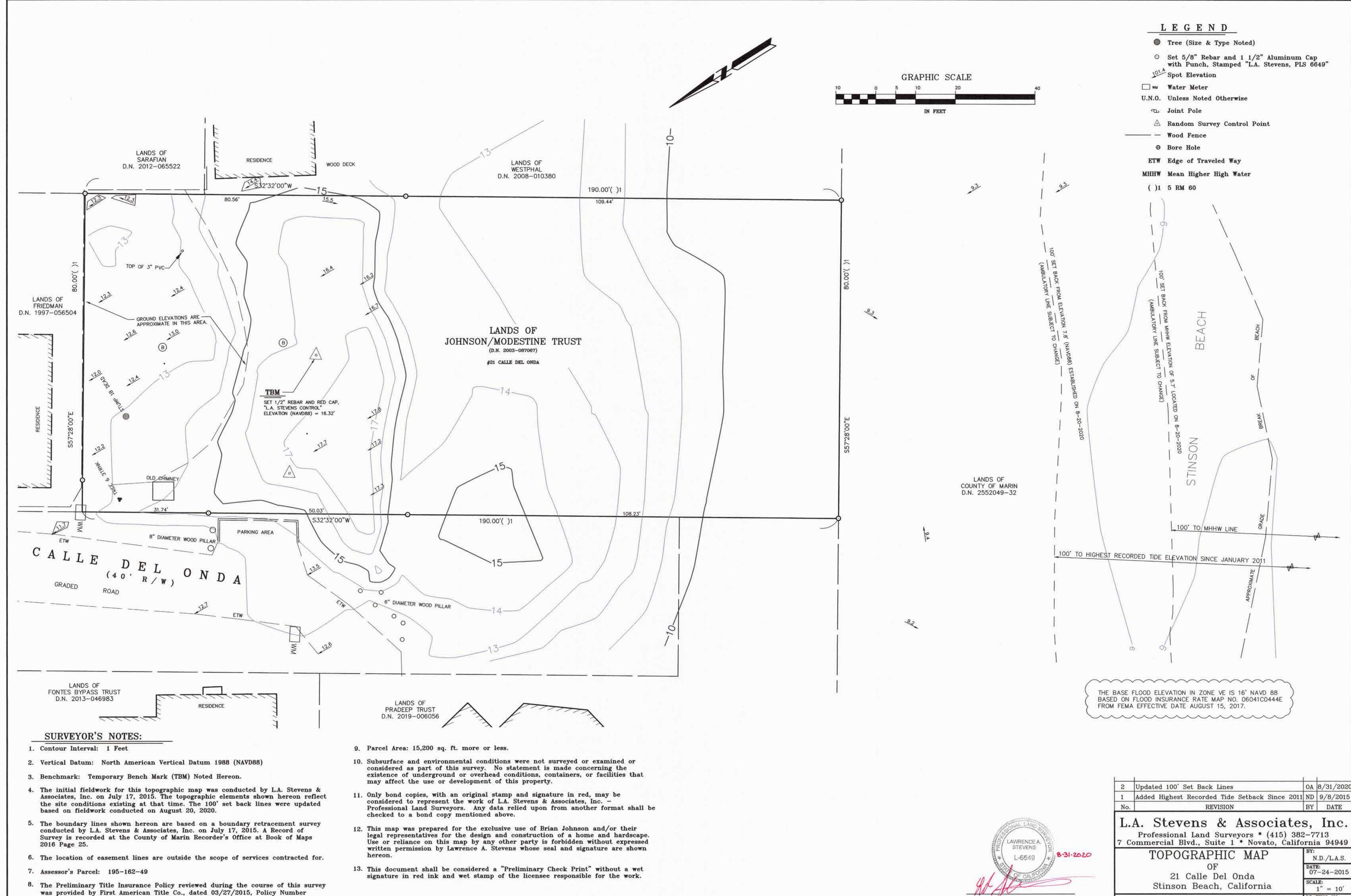
Sheet 4 of 6

Checked By:

IMPROVE 21 CAL Stinson I APN 19:

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Engineering (5693, Petaluma, 07) 763-6620



OA 8/31/2020 Added Highest Recorded Tide Setback Since 2011 ND 9/8/2015 BY DATE

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FOR BRIAN JOHNSON

Lawrence A. Stevens, PLS 6649

DRAWING NO.

20-2046

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