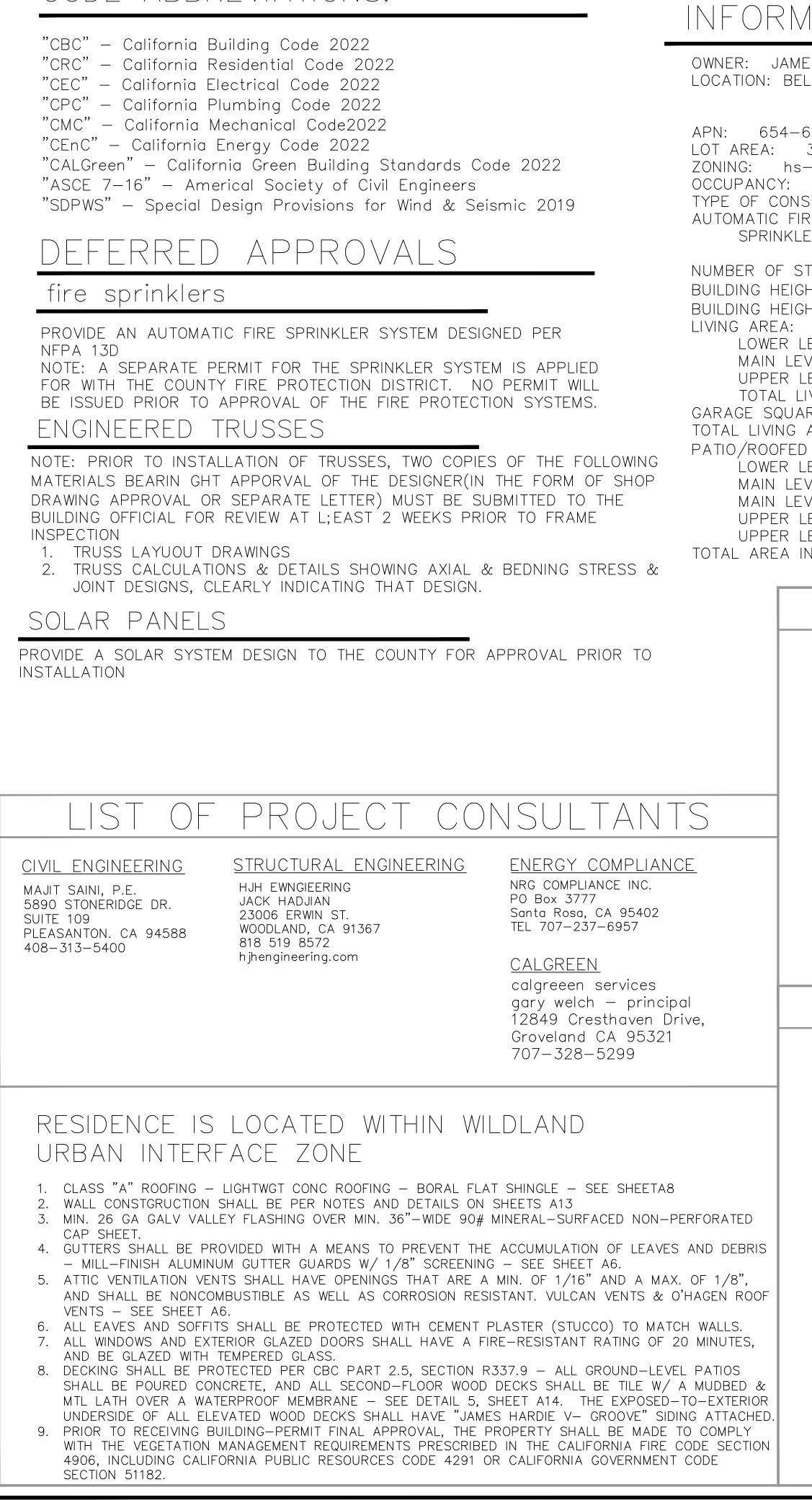
CODE ABBREVIATIONS:



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	•DUCT LEAKAGE TES	TING	A8 EXTERIOR ELEVATIONS CG-3 POLLUTANT CONTROL FORMS #1	
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- 28. The improvement plans shall include an Erosion and Sediment Control Plan that outlines seasonally appropriate erosion and sediment controls during the construction period). Include the County's Standard Best Management Practice Plan Sheets BMP-1 and BMP-2 with the Plan Set.
- 29. All applicable easements affecting the parcel(s) with benefactors and recording information shall be shown on the improvement plans.

Drainage

30. Provide a drainage analysis prepared by a licensed civil engineer in accordance with criteria as designated in the 2007 County Drainage Manual (see Section 6.3.3 and Appendix L for design requirements). The on-site drainage will be controlled in such a manner as to not increase the downstream peak flow for the 10-year and 100-year storm event or cause a hazard or public nuisance. The mean annual precipitation is available on the on-line property profile.

Utilities

31. All new on-site utilities, mains and services shall be placed underground and extended to serve the proposed development. All extensions shall be included in the improvement plans. Off-site work should be coordinated with any other undergrounding to serve other properties in the immediate area.

Stormwater Treatment – SF Bay Watershed

32. Include one of the following site design measures in the project design: (a) direct hardscape and/or roof runoff onto vegetated areas, (b) collect roof runoff in cisterns or rain barrels for reuse, or (c) construct hardscape (driveway, walkways, patios, etc.) with permeable surfaces. Though only one site design measure is required, it is encouraged to include multiple site design measures in the project design. For additional information, please refer to the C.3 Stormwater Handbook (June 2016) available at the following website: § www.scvurppp.org > Resources > reports and work products > New Development and Redevelopment >C.3 Stormwater Handbook (June 2016)

Soils and Geology

33. Submit one copy of the signed and stamped of the geotechnical report for the project.

34. Submit a plan review letter by the Project Geotechnical Engineer certifying that the geotechnical recommendation in the above geotechnical report have been incorporated into the improvement plan.

Notice of Intent

35. Indicate on the improvement plans the land area that will be disturbed. If one acre or more of land area will be disturbed, file a Notice of Intent (NOI) with the State Water Resources Control Board (SWRCB) for coverage under the State General Construction Permit. The SWRCB will issue a Waste Discharge Identification number (WDID). The WDID number File PLN17 - 10706 Zoning Administration Meeting

December 5, 2019 Continued Item #1 James Le Design Review and Grading Page 7

shall be shown on the on the final improvement plans. The SWRCB web site is at: www.waterboards.ca.gov > Water Issues > Programs > Stormwater

Agreements:

36. Submit an Engineer's Estimate of Probable Construction Cost prepared by a registered civil engineer with the all stages of work clearly identified for all improvements and grading as proposed in this application. Pay necessary inspection and plan check fees and provide County with a Certificate of Worker's Compensation Insurance. (C12-206).

Environmental Health

- 37. Based upon a percolation rate of 6.3 minutes per inch, sewage conditions have been determined at 190 lineal feet plus 190 lineal feet. This sewage dispersal system shall be designed as a pressure dosing wastewater treatment system, sized to serve a 5-bedroom single family residence (600 gallons per day). The onsite wastewater treatment system (OWTS) shall require a 2,000-gallon septic tank and a 1,500 gallon pump tank.
- 38. At the time of application for a building permit, submit four (4) revised plot plans to scale (1" = 20') on a grading and drainage plan showing the house, driveway, accessory structures, septic tank and required drainlines to contour in order to obtain a septic system permit. Maintain all setbacks as outlined within County of Santa Clara Onsite Manual. The original plans must be submitted to the field office for sign-off prior to the issuance of the septic system permit, and submitted as the final grading plan to Land Development Engineering when a grading permit is required. Contact Ross Kakinami at 408-918-3479 for sign-off.
- 39. Submitted grading and drainage plans that show a closed drainage pipe placed over the proposed dispersal field. Prior to issuance of a building permit, revise drainage plan. Closed pipe drainage must maintain a minimum of a 10-foot horizontal setback to OWTS.
- 40. Prior to issuance of a building permit, provide a water will-serve letter from the local water purveyor (Bella Madeira).

Fire Marshal Fire Protection Water

Note: Fire protection water system shall be functioning prior to approval of the foundation. System shall be maintained in good working order and accessible throughout construction. A stop work order may be placed on the project if the required hydrant systems are not installed, accessible, and/or functioning.

- 41. Fire-Flow: The minimum fire-flow shall be 500 gpm at 20 psi. (gpm has been reduced for installation of fire sprinklers). NOTE: the fire flow may be adjusted depending upon the final size of the structures shown on the building permit set of drawings.
 - a. At the time of plan submittal for building permit, provide written verification from the water company that this condition can be satisfied.
- b. If an existing approved water system is within 300 ft. of the property line, extension File PLN17 - 10706 Zoning Administration Meeting James Le Design Review and Grading Page 8 December 5, 2019 Continued Item #1

replacement of twenty-eight (28) 24-inch box California native oak trees are required per the abovementioned guidelines.

- licensed landscape architect. The requirements of Division B33 of the County Ordinance on the following web page:
- Irrigation system is highly recommended to increase the tree's survival.
- final building plans and must include the following:
 - trees.

 - activities. 408-299-5770 for additional details."
 - the project planner.

Landscape Permit

supporting information can be found on the following web page: https://www.sccgov.org/sites/dpd/PlansOrdinances/Landscape/Pages/welo-apply.aspx

File PLN17 - 10706 James Le Design Review and Grading

Land Development Engineering

be found at the following web page:

<u>www.sccplanning.org</u> > I Want to.. > Apply for a Permit > Grading Permit If the County Roads and Airports Department provides a condition of approval to obtain an encroachment permit, for your convenience, the grading and encroachment permits will be processed concurrently under one set of improvement (grading) plans. Please contact LDE at (408) 299-5734 for additional information and timelines.

- submitted information.
- Department available at: § March 1981 Standards and Policies Manual, Volume 1 (Land Development) § 2007 Santa Clara County Drainage Manual
- 27. Survey monuments shall be shown on the improvement plan to provide sufficient Land Surveyors Act with the County Surveyor.

File PLN17 - 10706 James Le Design Review and Grading

20. Prior to the issuance of a building permit, submit a final landscape documentation package for review and approval consistent with the preliminary landscape plan prepared by Pennino Design Group in August 2019, and as approved at the December 5, 2019 Zoning Administration hearing. The submittal shall include a landscape plan, showing the tree location and species, irrigation design and water budget calculation stamped and signed by a

Code (Sustainable Landscape Ordinance) shall apply as the total landscape area appears to exceed 2,500 square feet. The landscape ordinance and supporting information can be found

https://www.sccgov.org/sites/dpd/PlansOrdinances/Landscape/Pages/welo-apply.aspx

21. Per County Municipal Code Division C16-3(e), any tree that was required to be planted or retained by the conditions of approval of any land use entitlement are protected trees, regardless the size. The project trees are subject to tree removal and replacement trees.

22. For all trees to be retained with a canopy in the development area or interfaces with the limits of grading for any proposed development on-site, the trees shall be protected by the placement of five (5)-foot tall rigid tree protective fencing, as shown on final grading and

a. Fencing should be placed along the outside edge of the dripline of the tree or grove of

b. The fencing should be maintained throughout the site during the entire construction period and should be inspected periodically for damage and proper functions. c. Fencing should be repaired as necessary to provide a physical barrier from construction

d. The following sign shall be placed on all tree protection fencing and must remain until final occupancy. The sign must read: "Warning. This fencing shall not be removed without permission from the Santa Clara County Planning Office. County of Santa Clara tree protection measures may be found<u>at: http://www.sccplanning.gov</u>, or call

e. Protection measures must be in place prior to construction activity commencing. f. Evidence of tree protective fencing can be provided by taking photos and emailing to

23. The requirements of Division B33 of the County Ordinance Code (Sustainable Landscape Ordinance) shall apply. Calculate square footage of new landscaped area and if it equals or exceeds 500 sq. feet, then a landscaping permit is required. The landscape ordinance and

Zoning Administration Meeting

December 5, 2019 Continued Item #1 Page 5

24. Obtain a Grading Permit from Land Development Engineering (LDE) prior to beginning any construction activities. Issuance of the grading permit is required prior to LDE clearance of the building permit (building and grading permits may be applied for concurrently). The process for obtaining a grading permit and the forms that are required can

25. Final plans shall include a single sheet which contains the County standard notes and certificates, as shown on County Standard Cover Sheet. Plans shall be neatly and accurately drawn, at an appropriate scale that will enable ready identification and recognition of

26. Final improvement plans shall be prepared by a licensed civil engineer for review and approval by LDE and the scope of work shall be in substantial conformance with the conditionally approved preliminary plans on file with the Planning Office. Include plan, profile, typical sections, contour grading for all street, road, driveway, structures and other improvements as appropriate for construction. The final design shall be in conformance with all currently adopted standards and ordinances. The following standards are available on-line: § Standard Details Manual, September 1997, County of Santa Clara, Roads and Airports

<u>www.sccgov.org/sites/rda</u> > Published Standards, Specifications, Documents and Forms <u>www.sccplanning.org</u> > Plans & Ordinances > Land Development Standards and Policies

www.sccplanning.org > Plans & Ordinances > Grading and Drainage Ordinance

information to locate the proposed improvements and the property lines. Existing monuments must be exposed, verified and noted on the grading plans. Where existing monuments are below grade, they shall be field verified by the surveyor and the grade shall be restored and a temporary stake shall be placed identifying the location of the found monument. If existing survey monuments are not found, temporary staking delineating the property line may be placed prior to construction and new monuments shall be set prior to final acceptance of the improvements. The permanent survey monuments shall be set pursuant to the State Land Surveyor's Act. The Land Surveyor / Engineer in charge of the boundary survey shall file appropriate records pursuant to Business and Professions Code Section 8762 or 8771 of the

> Zoning Administration Meeting Page 6 December 5, 2019 Continued Item #1

Ordinance Section B11-154 and prohibited between the hours of 7:00 p.m. and 7:00 a.m. on weekdays and Saturdays, or at any time on Sundays for the duration of construction.

Fire Marshal

- 11. General Requirements:
- a. These are minimum Fire Marshal standards. Should these standards conflict with any other local, state or federal requirement, the most restrictive shall apply. b. Construction of access roads and driveways shall use good engineering practice.
- c. All required access roads, driveways, turnarounds, and turnouts shall be installed, and serviceable prior to approval of the foundation, and shall be maintained throughout construction. A stop work order may be placed on the project if required driving surfaces are not installed, accessible, and/or maintained at all times.
- 12. Driveways (roads serving only one lot) shall comply with the following when the distance between the centerline of the access road and any portion of the structure exceeds 150 ft. (measured along the path of travel).
- a. Width: Clear width of drivable surface of 12 feet.
- b. Vertical Clearance: Minimum vertical clearance of 15 feet shall be maintained between the access road and the building site (trim or remove, tree limbs, electrical wires, structures, and similar improvements).
- c. Curve Radius: Inside turn radius for curves shall be a minimum of 50 feet.
- d. Grade: Maximum grade shall not exceed 16%. Grades exceeding 15% shall be paved in compliance with County Standard SD5.
- e. Surface: All driving surfaces shall be all-weather and capable of sustaining 75,000-pound gross vehicle weight.
- f. Turnouts: Passing turnouts in compliance with SD-16 shall be provided at every 400 feet and wherever hydrants are placed adjacent to driveways.
- g. Turnarounds: Turnaround shall be provided for driveways in excess of 150 feet as measured along the path of travel from the centerline of the access road to the structure. Acceptable turnarounds shall be a 40-foot by 48-foot pad, hammerhead, or bulb of 40foot radius complying with County Standard SD-16. All turnarounds shall have a slope of not more than 5% in any direction.
- h. Gates: Gates shall not obstruct the required width or vertical clearance of the driveway and may require a Fire Department Lock Box/Gate Switch to allow for fire department access. Installation shall comply with CFMO-A3.

Miscellaneous:

13. Property is located within the State Response Area (served by Cal Fire).

- 14. This property is located in the Wildland/Urban Interface Fire Area. All of the following conditions shall apply:
- a. A Class "A" roof assembly is required. Detail shall be included in plans submitted for building permit.

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James Le Design Review and Grading	Page 3	December 5, 2019 Continued Item #1

- b. Provide a 1/2-inch spark arrester for the chimney.
- c. Remove significant combustible vegetation within 30 feet of the structure to minimize risk of wildfire casualty. Maintain appropriate separation of vegetative fuels in areas between 30 feet and 100 feet from the structure.
- 15. Maintenance: Fire protection water systems and equipment shall be accessible and maintained in operable condition at all times and shall be replaced or repaired where defective. Fire protection water shall be made available to the fire department. Fire department access roads, driveways, turnouts, and turnarounds shall be maintained free and clear and accessible at all times for fire department use. Gates shall be maintained in good working order and shall remain in compliance with Fire Marshal Standard CFMO-A3 at all times.

CONDITIONS OF APPROVAL TO BE COMPLETED PRIOR TO FINAL GRADING AND BUILDING PERMIT ISSUANCE

Planning

- 16. Prior to issuance of any permits, the applicant shall pay all reasonable costs associated with the work by the Department of Planning and Development
- 17. Prior to issuance of a building permit, and pursuant to Zoning Ordinance Section 5.20.125 record a Notice of Permit and Conditions with the County Office of Clerk-Recorder to ensure that successor property owners are aware that certain conditions of approval shall have enduring obligation. Evidence of such recordation shall be provided prior to building permit issuance.
- 18. Prior to issuance of a building permit, submit final color samples for the house facade, trim and roof indicating the Light Reflectivity Value (LRV) is less than or equal to 45 LRV, pursuant to Zoning Ordinance Section 3.20.040B, consistent with the project, color samples and plans approved at the November 7, 2019 Zoning Administration Hearing.

Tree Protection

- 19. Grading and building plans shall clearly identify the size and species of all trees proposed for removal. For each tree Twelve (12)-inches (diameter) or greater designated for removal, replacement shall occur per the County of Santa Clara Guidelines for Tree Protection and Preservation for Land Use Applications. The following tree replacement ratios apply: • For the removal of one small tree (5- 18 inches):
 - (3) 15-gallon trees, or (2) 24-inch box trees.
 - For the removal of one medium tree (18 24 inches):
 - (4) 15-gallon trees or (3) 24-inch box trees.
 - For the removal of a tree larger than 24 inches (5) 15-gallon trees or (4) 24-inch box trees.

The project proposes to remove eight (8) California coastal live oak trees per Tree Removal Plan submitted on August 22, 2019. Based on the size of the trees to be removed, File PLN17 - 10706 Zoning Administration Meeting

James Le Design Review and Grading Page 4 December 5, 2019 Continued Item #1 Owner/ Locatio File Nu CEQA: Project

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GENERAL PROJECT NOTES

- A. THIS WORK SHALL COMPLY WITH ALL 2022 CBC, CFC, CMC, CPC, CEC, 2022 CAL. ENERGY CODE, 2022 CAL. RESIDENTIAL CODE, 2022 CAL GREEN BUILDING STANDARDS CODE AND ALL OTHER REGULATIONS AS AMENDED TO DATES APPROVED BY THE COUNTY OF SANTA CLARA
- B. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. WRITTEN DIMENSIONS ARE APPROXIMATE AND MUST BE VERIFIED BY CONTRACTOR. CONTRACTOR SHALL VERIFY, AND BE RESPONSIBLE FOR, ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO, AND DURING, ALL PHASES OF WORK.
- C. IF THE CONTRACTOR FINDS ANY LACK OF INFORMATION, DISCREPANCY, AND/OR OMISSIONS IN THESE DRAWINGS, OR IF THE CONTRACTOR IS UNCLEAR AS TO THE DRAWINGS' MEANING AND/OR INTENT, THE CONTRACTOR SHALL CONTACT THE ARCHITECT AT ONCE FOR INTERPRETATION AND/OR CLARIFICATION BEFORE PROCEEDING WITH THAT PORTION OF THE WORK. IF ANY SUBCONTRACTOR FINDS ANY LACK OF INFORMATION, DISCREPANCY, AND/OR OMISSIONS IN THESE DRAWINGS, OR IF ANY SUBCONTRACTOR IS UNCLEAR AS TO THE DRAWINGS' MEANING AND/OR INTENT, THAT SUBCONTRACTOR SHALL CONTACT THE GENERAL CONTRACTOR, WHO SHALL THEN CONTACT THE ARCHITECT AT ONCE FOR INTERPRETATION AND/OR CLARIFICATION BEFORE DIRECTING THE SUBCONTRACTOR TO PROCEED WITH THAT PORTION OF THE WORK.
- D. NO CHANGES, MODIFICATIONS, OR DEVIATIONS SHALL BE MADE TO AND/OR FROM THE DRAWINGS AND/OR SPECIFICATIONS WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE ARCHITECT OR THE OWNER.
- E. ALL MATERIALS USED SHALL BE EQUAL TO, OR EXCEED, ALL APPLICABLE STATE AND LOCAL CODES AND REQUIREMENTS.
- F. THE CONTRACTOR SHALL PROMPTLY AND LEGALLY REMOVE ALL ACCUMULATED DEBRIS DAILY, SHALL PROTECT ALL EXPOSED PORTIONS OF THE WORK FROM WEATHER ELEMENTS, SHALL AVOID OVER-LOADING THE STRUCTURE WITH CONSTRUCTION MATERIALS, AND SHALL SECURELY STORE ALL ITEMS TO BE USED FOR AND IN THE CONSTRUCTION OF THE WORK.
- G. ALL GLASS IN HAZARDOUS AREAS (INCLUDING TUBS AND/OR SHOWERS), ALL GLASS WITHIN 18" OF THE FINISHED FLOOR, AND ALL GLASS WITHIN 24" OF AN OPERABLE DOOR SHALL BE SAFETY GLASS, AND SHALL BE PERMANENTLY LABELED AS SUCH. (CBC SECTION 2406.4)
- H. THE CONTRACTOR SHALL MAINTAIN, KEEP IN SERVICE, AND PROTECT AGAINST DAMAGE, ALL EXISTING UTILITIES AND CITY SERVICES DURING CONSTRUCTION.
- I. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- J. ALL ELECTRICAL CALCULATIONS AND WIRE SIZES SHALL BE PROVIDED BY A CALIFORNIA-LICENSED ELECTRICAL CONTRACTOR. RECEPTACLE, SWITCH, FIXTURE, AND EQUIPMENT LOCATIONS SHALL BE FOUND ON THE SITE PLAN AND PROPOSED FLOOR PLANS WITHIN THESE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION, FIXTURE TYPES, AND EQUIPMENT WITH THE OWNER PRIOR TO PURCHASE AND INSTALLATION.
- K. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONARY MEASURES TO PROTECT THE PUBLIC AND ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
- L. ANY EXISTING UTILITIES TO BE ABANDONED SHALL BE PROPERLY DISCONNECTED, PLUGGED, OR CAPPED AS REQUIRED BY CODE AND/OR SOUND CONSTRUCTION PRACTICES.
- M. THE CONTRACTOR SHALL PROVIDE ADEQUATE CONCEALED BLOCKING AND ANCHORING FOR ALL CEILING- AND WALL-MOUNTED EQUIPMENT, HARDWARE, FIXTURES, AND ACCESSORIES.

- KNOWLEDGE, OR EFFORT.
- ELIMINATE. AIR LEAKAGE.
- DETAILS.

FIRE DEPT REQUIREMENTS

1. CONSTRUCTION SITE FIRE SAFETY: ALL CONSTRUCTION SITES MUST COMPLY WITH APPLICABLE PROVISIONS OF THE CFC CHAPTER 33 AND OUR STANDARD DETAIL AND SPECIFICATION SI-7. PROVIDE APPROPRIATE NOTATIONS AND SUBSEQUENT PLAN SUBMITTALS, AS APPROPRIATE TO THE PROJECT. CFC CH. 33.

2. WATER SUPPLY REQUIREMENTS: POTABLE WATER SUPPLIES SHALL BE PROTECTED FROM CONTAMINATION CAUSED BY FIRE PROTECTION WATER SUPPLIES. IT IS THE RESPONSIBILITY OF THE APPLICANT AND ANY CONTRACTORS AND SUBCONTRACTORS TO CONTACT THE WATER PURVEYOR SUPPLYING THE SITE OF SUCH PROJECT, AND TO COMPLY WITH THE REQUIREMENTS OF THAT PURVEYOR. SUCH REQUIREMENTS SHALL BE INCORPORATED INTO THE DESIGN OF ANY WATER-BASED FIRE PROTECTION SYSTEMS, AND/OR FIRE SUPPRESSION WATER SUPPLY SYSTEMS OR STORAGE CONTAINERS THAT MAY BE PHYSICALLY CONNECTED IN ANY MANNER TO AN APPLIANCE CAPABLE OF CAUSING CONTAMINATION OF THE POTABLE WATER SUPPLY OF THE PURVEYOR OF RECORD. FINAL APPROVAL OF THE SYSTEM(S) UNDER CONSIDERATION WILL NOT BE GRANTED BY THIS OFFICE UNTIL COMPLIANCE WITH THE REQUIREMENTS OF THE WATER PURVEYOR OF RECORD ARE DOCUMENTED BY THAT PURVEYOR AS HAVING BEEN MET BY THE APPLICANT(S). 2016 CFC SEC. 903.3.5 AND HEALTH AND SAFETY CODE 13114.7.

3. ADDRESS IDENTIFICATION. NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS, BUILDING NUMBERS, OR APPROVED BUILDING IDENTIFICATION PLACED IN A POSITION THAT IS PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY. THESE NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. WHERE REQUIRED BY THE FIRE CODE OFFICIAL, ADDRESS NUMBERS SHALL BE PROVIDED IN ADDITIONAL APPROVED LOCATIONS TO FACILITATE EMERGENCY RESPONSE. ADDRESS NUMBERS SHALL BE ARABIC NUMBERS OR ALPHABETICAL LETTERS. NUMBERS SHALL BE A MINIMUM OF 4 INCHES (101.6 MM) HIGH WITH A MINIMUM STROKE WIDTH OF 0.5 INCH (12.7 MM). WHERE ACCESS IS BY MEANS OF A PRIVATE ROAD AND THE BUILDING CANNOT BE VIEWED FROM THE PUBLIC WAY A MONUMENT, POLE, OR OTHER SIGN OR MEANS SHALL BE USED TO IDENTIFY THE STRUCTURE. ADDRESS NUMBERS SHALL BE MAINTAINED. CFC SEC. 505.1.

N. UNLESS OTHERWISE NOTED, ELECTRICAL CONDUITS, PLUMBING LINES, ETC. SHALL BY RUN IN CONCEALED SPACES, AND ALL FRAMING SHALL BE ADEQUATELY SIZED TO ACCOMPLISH THIS RESULT WITHOUT CAUSING ANY DEFORMATION IN THE WALL PLANE.

O. INTERIOR DIMENSIONS ARE SHOWN FROM CENTER OF WALL AND EXTERIOR DIMENSIONS ARE SHOWN FROM FACE OF STUD.

P. EACH BEDROOM SHALL HAVE ONE EXTERIOR EGRESS-COMPLIANT WINDOW OR DOOR THAT IS OPENABLE FROM THE BEDROOM'S INTERIOR WITHOUT THE USE OF A KEY OR SPECIAL TOOLS,

Q. ALL PRODUCTS LISTED IN THESE DRAWINGS BY ICC/NER NUMBER SHALL BE INSTALLED PER THE REPORT AND MANUFACTURER'S WRITTEN INSTRUCTIONS. PRODUCT SUBSTITUTION FOR PRODUCTS LISTED SHALL ALSO HAVE AN ICC/NER-APPROVED WRITTEN EVALUATION REPORT AND BE APPROVED AND LISTED BY OTHER NATIONALLY-RECOGNIZED TESTING AGENCIES.

R. EXTERIOR OPENABLE WINDOWS AND DOOR SHALL BE WEATHER-STRIPPED. ALL OPEN JOINTS, PENETRATIONS, AND OTHER OPENINGS IN THE BUILDING ENVELOPE SHALL BE SEALED, CAULKED, GASKETED, AND/OR WEATHER-STRIPPED TO LIMIT, OR

S. SEE STRUCTURAL SHEETS FOR PROJECT CONSTRUCTION NOTES AND

T. SEE ATTACHED TITLE 24 FORMS AND/OR CALCULATIONS FOR PROJECT ENERGY EFFICIENCY REQUIREMENTS.

44. Existing and set permanent survey monuments shall be verified by inspectors prior to final acceptance of the improvements by the County. Any permanent survey monuments damaged or missing shall be reset by a licensed land surveyor or registered civil engineer authorized to practice land surveying and they shall file appropriate records pursuant to Business and Professions Code Section 8762 or 8771 of the Land Surveyors Act with the County Surveyor.

Environmental Health 46. Prior to building final, provide proof of garbage service at the time of final occupancy signoff. Garbage service in the unincorporated areas of Santa Clara County is mandatory.

Fire Marshal 47. Fire Sprinkler System: An approved residential fire sprinkler system complying with CFMO-SP6 shall be installed throughout the structure (including existing residences when square footage is added). Note: The fire sprinkler system shall be installed and finaled by this office prior to File PLN17 - 10706 Zoning Administration Meeting Page 9 December 5, 2019 Continued Item #1 James Le Design Review and Grading

occupancy. A separate permit shall be obtained from this office by a state licensed C-16 contractor prior to installation. Please allow for a minimum of 30 days for plan review of fire sprinkler plans by this office.

Geology 48. Prior to Final Inspection, submit a Construction Observations Letter that verifies the work was completed in accordance with the approved plans.

to site is required, provided it is feasible to do so. Contact local water purveyor as soon as possible. If the water company will not grant a water connection, submit official documentation from the water company to that effect.

- c. If the water company provides domestic water, but cannot provide the required hydrant fire-flow, installation of an approved residential fire sprinkler system complying with CFMO-SP6 shall be required throughout.
- d. If fire protection water cannot be supplied from a recognized water purveyor, fire protection water supply shall be provided by on-site aboveground storage tank(s) and wharf hydrant.

42. Prior to permit issuance, submit a geotechnical engineer's Plan Review Letter that confirms the plans conform with the recommendations presented in the approved report (Langan Treadwell Rollo, dated 7-26-2016).

CONDITIONS OF APPROVAL TO BE COMPLETED PRIOR TO OCCUPANCY OR ONE YEAR FROM THE DATE OF THE LAND DEVELOPMENT AGREEMENT, WHICHEVER COMES FIRST.

Planning

43. Prior to final inspection, contact Xue Ling, Assistant Planner, at least a week in advance to schedule a site visit to verify the approved exterior colors and landscaping have been installed, as approved.

Land Development Engineering

45. Construct all of the aforementioned improvements. Construction staking is required and shall be the responsibility of the developer.

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Zoning Administration Meeting December 5, 2019 Continued Item #1

STEVE BENZING ARCHITECT	C-17985 12103 EBENERICKSRI IRG			EMAIL: Steve@benzarcn.com WEBSITE: BENZARCH.COM						
	NEW RESIDENCE ON BELLA MADEIRA LANE SAN JOSE, CA APN: 654-64-012									
	CONDITIONS OF APPROVAL, GENERAL & MISC. NOTES									
DATE: 9/12/2024	DESIGNED BY: T. PENG	DRAWN BY: N.SINGH	CHECKED BY: M. SAINI	APPROVED BY: M. SAINI						
NO.										
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COUNTY OF SANTA CLARA General Construction Specifications

GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY LANGAN TREADWELL ROLLO AND DATED JULY 26 2016 THIS REPORT IS SUPPLEMENTED BY: 1) THESE PLANS AND SPECIFICATIONS, 2) THE COUNTY OF SANTA CLARA STANDARD DETAILS. 3) THE COUNTY OF SANTA CLARA STANDARD SPECS, 4) STATE OF CALIFORNIA STANDARD DETAILS, 5) STATE OF CALIFORNIA STANDARD SPECIFICATIONS. IN THE EVENT OF CONFLICT THE FORMER SHALL TAKE PRECEDENCE OVER THE LATTER. THE PERFORMANCE AND COMPLETION OF ALL WORK MUST BE TO THE SATISFACTION OF THE COUNTY
- DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR CONTINUED MAINTENANCE.
- DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS OF OMISSIONS IN THESE PLANS. THE COUNTY SHALL BE AUTHORIZED TO REQUIRE DISCONTINUANCE OF ANY WORK AND SUCH CORRECTION AND MODIFICATION OF PLANS AS MAY BE NECESSARY TO COMPLY WITH COUNTY
- STANDARDS OR CONDITIONS OF DEVELOPMENT APPROVAL. DEVELOPER SHALL OBTAIN ENCROACHMENT PERMITS FROM THE SANTA CLARA VALLEY WATER DISTRICT AND CALIFORNIA DEPARTMENT OF TRANSPORTATION WHERE NEEDED. COPIES OF THESE PERMITS SHALL BE
- KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY'S INSPECTOR. DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY
- ARFA THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND THAT ARE SHOWN TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.
- DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR. ALL PERSONS MUST COMPLY WITH SECTION 4442 OF THE PUBLIC
- RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE RELATING TO THE USE OF SPARK ARRESTERS. UPON DISCOVERING OR UNEARTHING ANY BURIAL SITE AS EVIDENCED BY
- HUMAN SKELETAL REMAINS OR ARTIFACTS, THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER AT (4008) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION B6-18)
- THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.
- . ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.
- CONSTRUCTION STAKING
- THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB.
- ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR
- PROPERTY LINE STAKING MUST BE PERFORMED BY THE PROJECT ENGINEER OR 14. TOTAL DISTURBED AREA FOR THE PROJECT 40470 SF. LAND SURVEYOR TO ESTABLISH OR RE-ESTABLISH THE PROJECT BOUNDARY AND SHALL BE INSPECTED BY THE COUNTY INSPECTOR PRIOR TO THE BEGINNING OF THE WORK
- PROPER CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING.

CONSTRUCTION INSPECTION

- CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT. SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE. THE COUNTY REQUIRES A MINIMUM OF 24 HOURS ADVANCE NOTICE FOR
- GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE INSPECTION. INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND PROCESSES OF CONSTRUCTION TO OBSERVE THEIR COMPLIANCE WITH PLANS & SPECIFICATIONS BUT DOES NOT INCLUDE RESPONSIBILITY FOR THE SUPERINTENDENT OF CONSTRUCTION, SITE CONDITIONS, EQUIPMENT OR PERSONNEL. CONTRACTOR SHALL NOTIFY THE COUNTY LAND DEVELOPMENT INSPECTOR AT PHONE (408) 299-6868 AT
- LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE. DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN REQUEST FOR FINAL INSPECTION AND ACCEPTANCE. SAID REQUEST SHALL BE
- DIRECTED TO THE INSPECTION OFFICE NOTED ON THE PERMIT FORM. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES. PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR TO COMMENCEMENT OF THE BUILDING FOUNDATION.

SITE PREPARATION (CLEARING AND GRUBBING)

- EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE AS FOLLOWS: A) TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF 1.
 - PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO PUBLIC USE)
- B) FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE NOTED ON THE PLANS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MOVE OR RELOCATE
- UTILITY POLES AND OTHER OBSTRUCTIONS IN THE WAY OF CONSTRUCTION. JTILITY LOCATION. TRENCHING & BACKFIL
- CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES
- ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR
- GENERAL INFORMATION ONLY ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE. UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY, GAS AND WATER MAINS SHALL BE INSTALLED OUTSIDE THE PAVED AREAS.
- TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS DIRECTED BY THE COUNTY.
- TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90%. THE REQUIREMENT FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.
- BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.
- retaining walls REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING CONTINUAL CONTROL OF THE COUNTY INSPECTOR. INSPECTOR AND ENGINEER OF RECORD PRIOR TO POURING THE FOUNDATION AND FORMING THE WALL
- SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

GRADING

- 1. EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IS SHALL BE STRIPPED OF ALL VEGETATION. TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL, THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED. WHERE NATURAL GROUND IS STEEPER THAN 5:1, IT SHALL BE BENCHED AND THE FILL KEYED IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL COMPACTED TO 90% RELATIVE COMPACTION IS EXPOSED. THEN THE NEW FILL MATERIAL SHALL BE PLACED AS PER THESE CONSTRUCTION NOTES. FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 6" IN UNCOMPACTED THICKNESS. BEFORE COMPACTION BEGINS, THE FILL SHALL BE BROUGHT TO A WATER CONTENT THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE.
- EXCESS CUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE. SURPLUS EARTH FILL MATERIAL SHALL BE PLACED IN A SINGLE (8" MAX) THICK LAYER COMPACTED TO WITHSTAND WEATHERING IN THE AREA(S)
- DELINEATED ON THE PLAN. 4. NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
- 5. THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY. MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. DEPTH
RESIDENCE	685	0	10
ACCESSORY STRUCTURE	0	0	0
POOL/HARDSCAPE	0	0	0
LANDSCAPE	0	0	0
DRIVEWAY	380	500	6
OFF SITE	680	170	4.5

ACCESSORY STRUCTURE	0	0	0
POOL/HARDSCAPE	0	0	0
ANDSCAPE	0	0	0
DRIVEWAY	380	500	6
DFF SITE MPROVEMENTS	680	170	4.5
TOTAL	1745	670	

NOTE:	FILL	VOLUMES	INCLUDE	10%	SHRINKAGE.

- EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP
- SITE 7. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY
- GRADING WORK TO COORDINATE THE WORK IN THE FIELD. 8. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER
- BEFORE IT IS BROUGHT TO THE SITE. 9. THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE
- CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95% 10. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
- THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED BY THE COUNTY GEOLOGIST PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY.
- 12. THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY PAVED AREA. 13. GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE
- DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
- 15. WDID NO. NA.
- 16. THE INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND THAT A CURRENT AND UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON SITE.

TREE PROTECTION

- FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFACES WITH THE LIMITS OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE, THE TREES SHALL BE PROTECTED BY THE PLACEMENT OF RIGID TREE PROTECTIVE FENCING, CONSISTENT WITH THE COUNTY INTEGRATED LANDSCAPE GUIDELINES, AND INCLUDE THE FOLLOWING:
- FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIPLINE OF THE TREE OR GROVE OF TREES. THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION PERIOD AND SHALL BE INSPECTED PERIODICALLY FOR
- DAMAGE AND PROPER FUNCTION. FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES.
- SIGNAGE STATING, "WARNING- THIS FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5770. COUNTY OF SANTA CLARA TREE PROTECTION MEASURES MAY BE FOUND AT
- http://www.sccplanning.gov." SHALL BE PLACED ON THE TREE PROTECTIVE FENCING UNTIL FINAL OCCUPANCY. PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL BE SECURELY IN PLACED AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR

ACCESS ROADS AND DRIVEWAYS

3. SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION.

- DRIVEWAY LOCATIONS SHALL BE AS SHOWN ON THE IMPROVEMENT PLANS WITH CENTERLINE STATIONING. THE MINIMUM CONCRETE THICKNESS SHALL BE 6 INCHES THROUGHOUT (WITH A MAXIMUM APPROACH SLOPE OF 1 1/4 INCHES PER FOOT)
- ALL DRIVEWAY OR COMMON ACCESS ROAD SECTIONS IN EXCESS OF 15 LONGITUDINAL SLOPE MUST BE PAVED WITH A MINIMUM 2-INCH ASPHALT LIFT OR FULL DEPTH CONCRETE LIFT PRIOR TO ANY COMBUSTIBLE FRAMING. THE OWNER AND PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING
- PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS. 4. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THE PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE
- ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO THE PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM. ALL WORK IN THE COUNTY ROAD RIGHT-OF-WAY REQUIRES AN
- ENCROACHMENT PERMIT FROM THE ROADS AND AIRPORTS DEPARTMENT. EACH INDIVIDUAL ACTIVITY REQUIRES A SEPARATE PERMIT - I.E. CABLE, ELECTRICAL. GAS, SEWER, WATER, RETAINING WALLS, DRIVEWAY APPROACHES, FENCES, LANDSCAPING, TREE REMOVAL, STORM DRAINAGE IMPROVEMENTS, ETC..

STRFFT LIGHTING

1. PACIFIC GAS & ELECTRIC ELECTROLIER SERVICE FEE SHALL BE PAID BY THE DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE.

sanitary sewer

- 1. THE SANITARY SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.
- ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER CONFORM TO THE SPECIFICATIONS OF THE JURISDICTION INVOLVED. INSPECTION AFTERCONSTRUCTION. OF SANITARY SEWER WORK SHALL BE DONE BY SAID JURISDICTION.

PORTLAND CEMENT CONCRETE

1. CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS. CONCRETE PLACED MUST DEVELOP A MINIMUM STRENGTH FACTOR OF 2800 PSI IN A SEVEN-DAY PERIOD. THE CONCRETE MIX DESIGN SHALL BE UNDER THE

AS-BUILT PLANS STATEMENT THIS IS A TRUE COPY OF THE AS-BUILT PLANS. THERE (____ WERE) (____ WERE NOT) MINOR FIELD CHANGES - MARKED WITH THE SYMBOL (^). THERE (___WERE) WERE NOT) PLAN REVISIONS INDICATING SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED WITH THE SYMBOL \triangle .

6.

FINES, AND A STOPPAGE OF WORK.

1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF THESE FACILITIES IN A MANNER WHICH WILL PRECLUDE ANY HAZARD TO LIFE, HEALTH, OR DAMAGE TO ADJOINING PROPERTY, CONSISTENT WITH NPDES PERMIT CAS612008 / ORDER NO. R2-2009-0047 AND NPDES PERMIT CAS000004/ ORDER NO. 2013-0001-DWQ.

DROP INLETS SHALL BE COUNTY STANDARD TYPE 5 UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS. WHERE STREET PROFILE GRADE EXCEEDS 6% DROP INLETS SHALL BE SET AT 500 ANGLE CURB LINE TO ACCEPT WATER OR AS SHOWN ON THE PLANS. WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE

FOR GRADING THE OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW. UPON INSTALLATION OF DRIVEWAY CONNECTIONS, PROPERTY OWNERS SHALL PROVIDE FOR THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES. THE COUNTY SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS AND STORMWATER MANAGEMENT FEATURES PRIOR TO BACKFILL.

AIR QUALITY. LANDSCAPING AND EROSION CONTROL

- WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING
- AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER
- SWEEPING IS PROHIBITED. ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE A MAXIMUM IDLING TIME OF 5 MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLING TIME UNLESS NECESSARY FOR
- PROPER OPERATION OF THE VEHICLE. ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PFR HOUR ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT
- SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION. POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT VISIBLE NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS. OBTAIN ENCROACHMENT PERMIT FOR SIGN FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED.
- A. 15 MILES PER HOUR (MPH) SPEED LIMIT . 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION COMPLAIN HOTLINE OF 1-800-334-6367 10. ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION CAPABLE OF WITHSTANDING WEATHERING. 11. ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED SPREAD AT THE RATE OF 5 LB. PER 1000 SQUARE FEET (OR APPROVED EQUAL).
- SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH. 12. ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SD8. 13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP.
- ENERGY DISSIPATERS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF SHALL BE RELEASED TO SHEET FLOW. 14. PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED
- AREAS SHALL BE RESEEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE. 15. PERMANENT LANDSCAPING SHOWN ON THE ATTACHED LANDSCAPE PLAN MUST BE INSTALLED AND FIELD APPROVED BY THE COUNTY PLANNING OFFICE PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER, AND FINAL OCCUPANCY RELEASE BY THE BUILDING INSPECTION OFFICE.
- 16. THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR. 17. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL INSTALL AND MAINTAIN CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPS) ON THE PROJECT SITE AND WITHIN THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY THROUGHOUT THE DURATION OF THE CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL TO PREVENT THE DISCHARGE OF POLLUTANTS INCLUDING SEDIMENT. CONSTRUCTION MATERIALS. EXCAVATED MATERIALS. AND WASTE INTO THE SANTA CLARA COUNTY RIGHT-OF-WAY. STORM SEWER WATERWAYS, ROADWAY INFRASTRUCTURE. BMPS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING;
 - A. PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS. B. PREVENTION OF TRACKING OF MUD. DIRT. AND CONSTRUCTION
- MATERIALS ONTO THE PUBLIC ROAD RIGHT-OF-WAY. PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY. 18. THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE
- SANTA CLARA COUNTY ROAD RIGHT-OF-WAY. 19. EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND ILLICIT DISCHARGES ON A YEAR AROUND BASIS. DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES IN ADDITION TO THOSE NOTED IN THE PERMITTED PLANS MAY BE NECESSARY. FAILURE TO INSTALL SITE SITE AND SITUATIONALY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS,

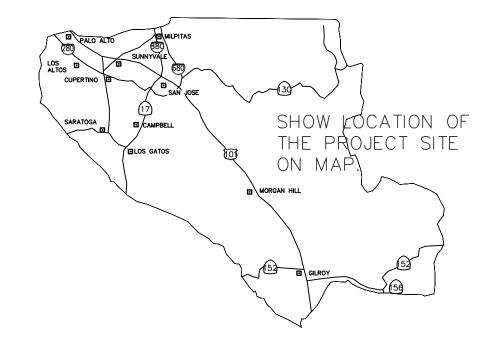
STORM DRAINAGE AND STORMWATER MANAGEMENT

SIGNATURE

NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPYOF

GEOTECHNICAL ENGINEER OBSERVATION

A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER AND ENGINEERING GEOLOGIST DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL AND GEOLOGIC REPORTS SHALL BE SUBMITTED PRIOR TO THE GRADING COMPLETION AND RELEASE OF THE BOND.



COUNTY LOCATION MAP



SURVEY MONUMENT PRESERVATION THE LANDOWNER / CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES.

- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE STAKE, AND FLAG OR OTHERWISE IDENTIFY WITH PAINT OR OTHER MARKINGS ALL PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITY.
- 3. THE LANDOWNER, CONTRACTOR AND/OR ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES THAT WILL OR MAY DISTURB AN EXISTING MONUMENT, CORNER STAKE, OR ANY OTHER PERMANENT SURVEYED MONUMENT SHALL CAUSE TO HAVE A LICENSED LAND SURVEYOR OR CIVIL ENGINEER, AUTHORIZED TO PRACTICE SURVEYING, ENSURE THAT A CORNER RECORD AND/OR RECORD OF SURVEY ARE FILED WITH THE COUNTY SURVEYOR'S OFFICE PRIOR TO DISTURBING SAID MONUMENTS AND RESET PERMANENT MONUMENT(S) IN THE SURFACE OF THE NEW CONSTRUCTION OR SET A WITNESS MONUMENT(S) TO PERPETUATE THE LOCATION IF ANY PERMANENT MONUMENT COÙLD BE DESTROYED, DAMAGED, COVERED. DISTURBED, OR OTHERWISE OBLITERATED. THE LICENSED LAND SURVEYOR OR CIVIL ENGINEER SHALL FILE A CORNER RECORD OR RECORD OF SURVEY WITH COUNTY SURVEYOR PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR

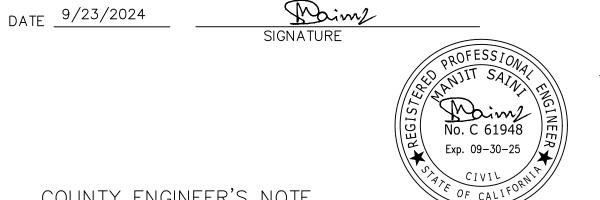
COUNTY OF SANTA CLARA LAND DEVELOPMENT ENGINEERING & SURVEYING GRADING / DRAINAGE PERMIT NO. ISSUED BY: _____ DATE:___ COUNTY OF SANTA CLARA DEPT. OF ROADS AND AIRPORTS ISSUED BY: ____ DATE: ___ ENCROACHMENT PERMIT NO.

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHUOT AN ENCROACHEMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

ENGINEER'S STATEMENT

I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED 12/05/2019 FILE(S) NO. PLN17-10706

INSPECTION



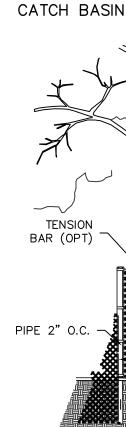
COUNTY ENGINEER'S NOTE

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITTEE OF ENGINEER FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS CONTAINED IN THE PLANS. IF, DURING THE COURSE OF CONSTRUCTION, THE PUBLIC INTEREST REQUIRES A MODIFICATION OF (OR DEPARTURE FROM) THE SPECIFICATIONS OF THE PLANS. THE COUNTY SHALL HAVE THE AUTHORITY TO REQUIRE THE SUSPENSION OF WORK, AND THE NECESSARY MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE.

DARRELL K.H.WONG

63958

R.C.E. NO.



CITY SURVEY SEPTIC TIGHT SEPTIC TANK

EDGE OF PAVEMENT

AC TRANSITION

PACING CONFORM OR

OVERLAY TO FORM SMOOTH

GRADING PLANS [APN 654-64-012] JAMES LE RESIDENTIAL DEVELOPMENT BELLA MADEIRA LANE SAN JOSE, SANTA CLARA COUNTY

LEGEND

TO BE CONST. EXISTING

4.42

DESCRIPTION	<u>TO BE (</u>
PROPERTY LINE	ዊ
LIMITS OF WORK OR BOUNDARY	

CURB AND GUTTER		
SIDEWALK	4	4
CITY SURVEY MONUMENT		
SEPTIC TIGHT-LINE		
SEPTIC TANK		
STORM SEWER	SD	
STORM DRAIN MANHOLE		
DRAINAGE INLET AT CURB		
ELECTROLIER		¢

<u>|1| |1|</u>

LINE

SCOPE OF WORK THE DEVELOPED IS DESDONORDER FOR THE INISTALL ATION OF

1.	THE DEVELOPER IS RESPONSIBLE FOR THE INSTALLATION OF
	THE WORK PROPOSED ON THE EROSION CONTROL PLAN. THE
	ENGINEER OF RECORD IS RESPONSIBLE FOR THE DESIGN OF
	THE EROSION CONTROL PLANS AND ANY MODIFICATIONS OF
	THE EROSION CONTROL PLANS TO PREVENT ILLICIT
	DISCHARGES FROM THE SITE DURING CONSTRUCTION.
2.	THE PROJECT IS A NEW RESIDENTIAL DEVELOPMENT, DOUBLE
	STORY WITH BASEMENT GARAGE AND MEDIA ROOM.
z	ADDROVIMATE SOLIADE FOOTACE-2 400 SO ET (PEEED FLOOD

3. APPROXIMATE SQUARE FOOTAGE=2,400 SQ.FT (REFER FLOOR PLAN DRAWING), AND APPROXIMATELY 1,000 SQ FT BASEMENT AREA. 4. THE PROJECT REQUIRES:

I. CONSTRUCTION OF ACCESS ROAD OF APPROXIMATELY 500 DT LONG II. CONSTRUCTION OD RETAINING WALLS.

III. CONSTRUCTION OF CONCRETE BLOCK WALLS. IV. CONSTRUCTION OF SEPTIC TANK AND LEACH FIELDS

SHEET INDEX

	CIVIL PLANS					
G-00	COVER SHEET AND GENERAL NOTES					
G-01	EXISTING SITE CONDITIONS					
G-02	TOPOGRAPHIC SURVEY					
G-03	RECORD OF SURVEY					
C-1.0	SITE GRADING KEY PLAN					
C-1.1	FIRE TRUCK TURNAROUND AND FIRE HYDRANT LOCATION PLAN					
C-2.0	GRADING AND DRAINAGE PLAN (1 OF 2)					
C-2.1	GRADING AND DRAINAGE PLAN (2 OF 2)					
C-3.0	DRIVEWAY GRADING PLAN AND PROFILE					
C-4.0	BUILDING LAYOUT & UTILITIES LOCATION					
C-5.0	HOUSE PAD SECTION					
C-6.0	SECTIONS					
C-7.0	DRIVEWAY CROSS SECTIONS & APPROACH PLAN & PROFILE					
D-1	GRADING DETAIL					
D-2	DETAILS					
ESC-1	EROSION CONTROL PLAN					
BMP-1	EROSION CONTROL DETAIL-1					
BMP-2	EROSION CONTROL DETAIL-2					
TPZ-1	TREE LOCATION PLAN					
SWMP	STORM WATER MANAGEMENT PLAN					
	ED FOR ISSUANCE REFER TO ENCROACHMENT CONSTRUCTION PERMIT AND PLAN COVER SHEET					
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FOR SPE FIRE SPE DEFERRE THE (N)	RINKLERS WILL BE A D SUBMITTAL. STANDARD FIRE HYDRANT					
	G-01 G-02 G-03 C-1.0 C-1.1 C-2.0 C-2.1 C-3.0 C-4.0 C-4.0 C-5.0 C-5.0 C-6.0 C-7.0 D-1 D-2 ESC-1 BMP-1 BMP-1 BMP-2 TPZ-1 SWMP					

Revision 3

1 OF 20

EXISTING TREE PROTECTION DETAIL

CHAIN SEE SIGNAGE

DETAIL

WARNING

LINK

10'-0" MAX

PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION AND INSPECTED BY A CERTIFIED ARBORIST. THE ARBORIST SHALL M CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION M ARE IMPLEMENTED AND ADHERED TO DURING CONSTRUCTION. THIS (SHALL BE INCORPORATED INTO THE GRADING PLANS. FENCE SHALL BE MINIMUM 5 FEET TALL CONSTRUCTED OF STURDY (CHAIN-LINK OR EQUIVALENT STRENGTH/ DURABILITY). FENCE SHALL BE SUPPORTED BY VERTICAL POSTS DRIVEN 2 FEET (

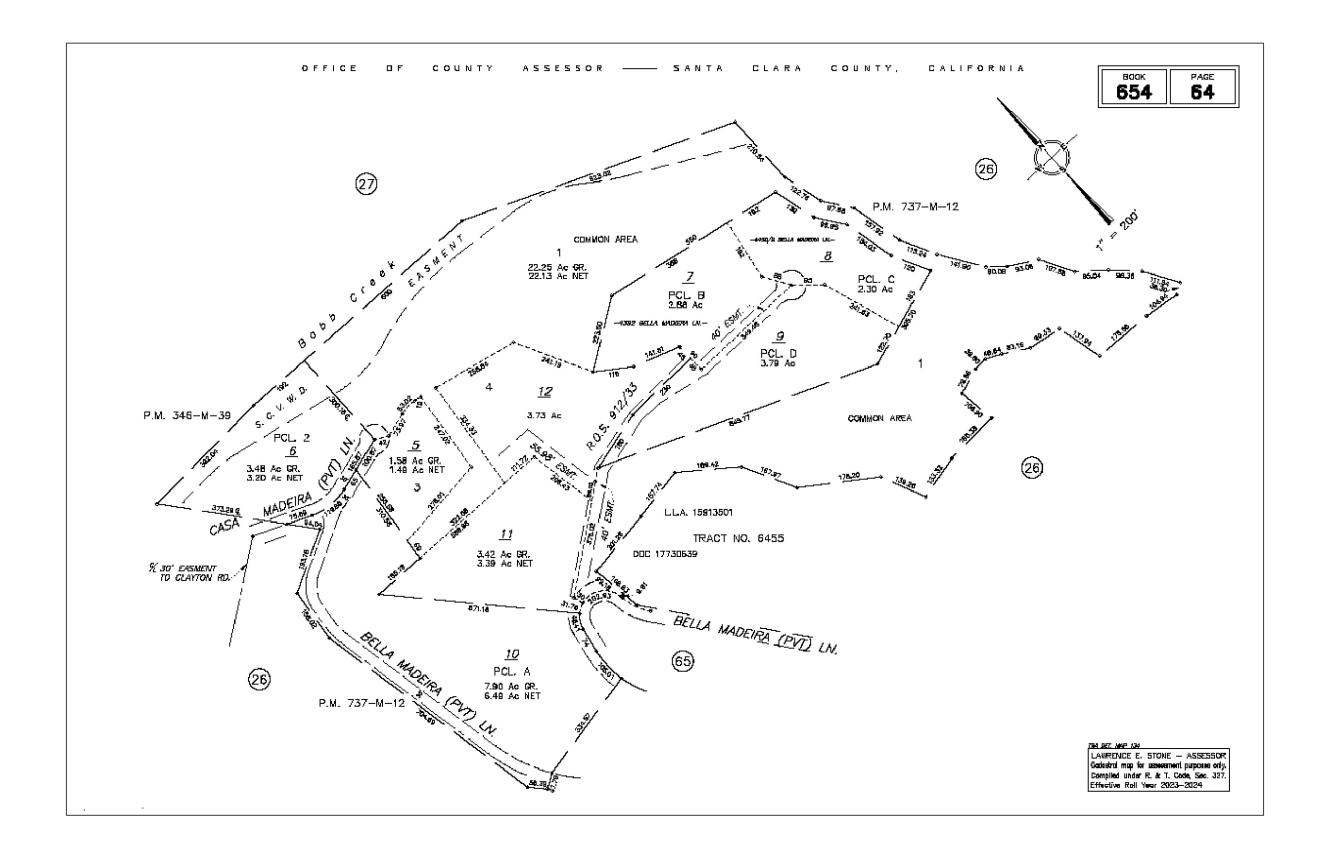
THE GROUND AND SPACED NOT MORE THAN 10 FEET APART TREE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE DURIN CONSTRUCTION PERIOD. INSPECTED PERIODICALLY FOR DAMAGE AND FUNCTION. REPAIRED AS NECESSARY TO PROVIDE A PHYSICAL BARR CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL THE FINAL

5. A SIGN THAT INCLUDES THE WORDS, "WARNING: THIS FENCE SHALL REMOVED WITHOUT THE EXPRESSED PERMISSION OF THE SANTA CLAI COUNTY PLANNING OFFICE," SHALL BE SECURELY ATTACHED TO THE IN A VISUALLY PROMINENT LOCATION

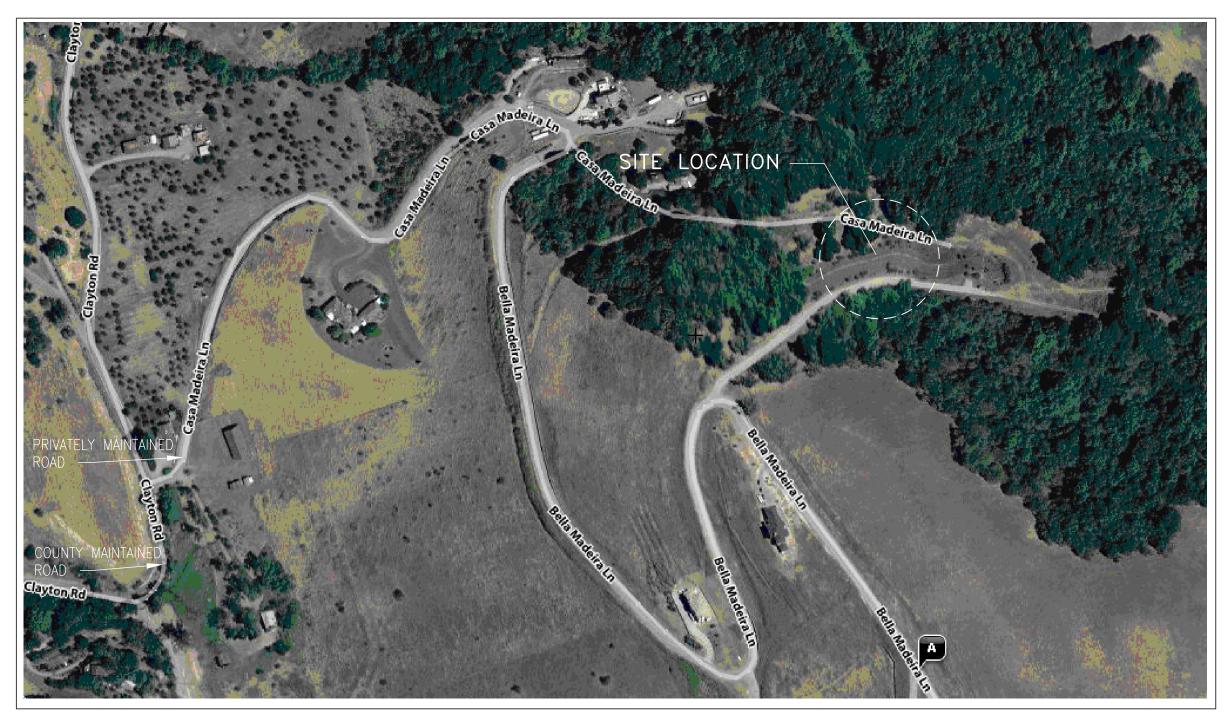
> 61948 R.C.E. NO. 09/30/2025 EXPIRATION DATE

> > 9/30/22 EXPIRATION DATE

LEGAL ACCESS AND UTILITY EASEMENT FROM CLAYTON ROAD PARCEL MAP. (BOOK NO. 469 O.R. PAGE NO. 150)



AERIAL MAP SHOWING ACCESS TO SITE





FROM CLAYTON ROAD (COUNTY MAINTAINED ROAD) ACCESS TO THIS SITE IS VIA CASA MADEIRA LANE (PRIVATELY MAINTAINED ROAD) THEN TO BELLA MADEIRA LANE (PRIVATELY MAINTAINED ROAD) AS SHOWN ABOVE. SEE LEGAL ACCESS PARCEL MAP.

PROJECT NOTES

- 1. THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.
- 2. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND WHICH ARE SHOWN TO BE REMOVED. ANY OTHER SUCH TREES ARE NOT TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.
- 3. PRIOR TO GRADING COMPLETION AND RELEASE OF BOND, ALL GRADED AREAS SHALL BE RESSEDED IN CONFIRMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADED SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
- 4. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THIS PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST OF THE COUNTY) TO PUBLIC MAINTENANCE ROADS STANDARDS APROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM.
- 5. THE WATER AND SANITARY UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.
- 6. THE OWNER AND THE PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.

GENERAL SITE CONDITIONS

- 1. THE DEVELOPMENT IS ON SLOPED GROUND.
- 2. GEOLOGICAL AND GEOTECHNICAL INVESTIGATION ASSESSMENT FOR SITE HAS BEEN COMPLETED, AND SUBMITTED TO COUNTY

SITE DRAINAGE AND STORM WATER MANAGEMENT

- 1. SITE DRAINAGE PATTERN SHALL BE MAINTAINED TO EXISTING CONDITIONS AS MUCH AS PRACTICAL.
- 2. THE RUNOFF FROM THE DEVELOPED AREA SHALL MATCH THE EXISTING CONDITIONS RUNOFF FOR A 2-YEAR 24 HOUR EVENT. STORAGE SHALL BE PROVIDED TO MAINTAIN THE PEAK FLOW TO PRE-DEVELOPMENT CONDITIONS.

TREE SURVEY AND REMOVAL

- 1. A DETAILED ARBORIST REPORT PREPARED FOR THE TREES TO BE REMOVED BY THIS DEVELOPMENT.
- 2. THE TREES NOT TO BE REMOVED SHALL BE PROTECTED IN ACCORDANCE WITH COUNTY REQUIREMENTS.

TOPOGRAPHIC SURVEY

TOPOGRAPHIC SURVEY FOR THE SITE WAS COMPLETED BY WILSON SURVEY. REFER SHEET G-02

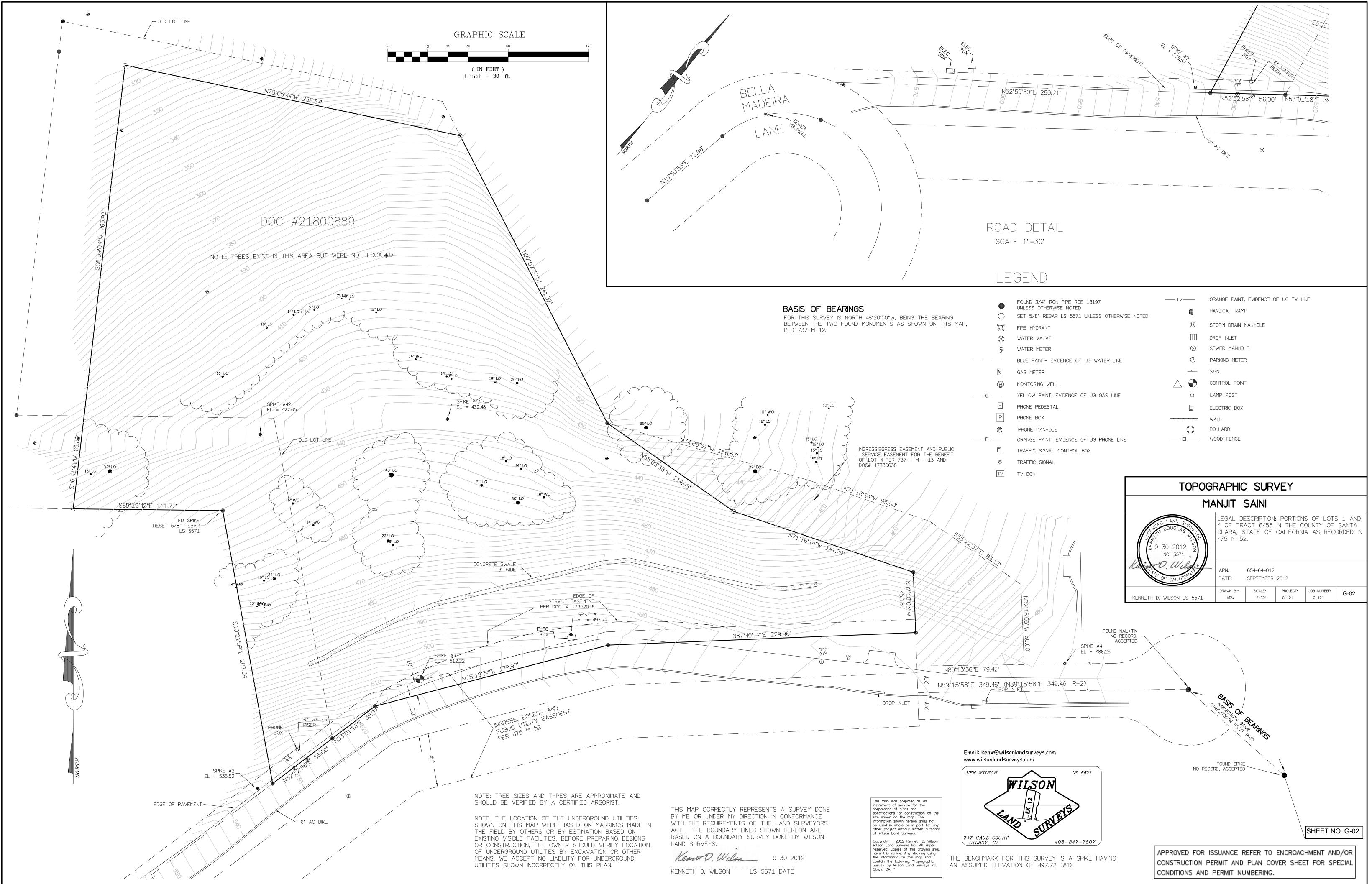
CONSTRUCTION NE \sim 40 \odot $\square \triangleleft$ 4 ωî. с Сl C ယ Ш **CONSULTATION** NOI. Ċ Ш S TING Ś X Ш ERIN ENGIN ARCHITECTURE SHEET NUMBER G-01

2 of 20 sheets

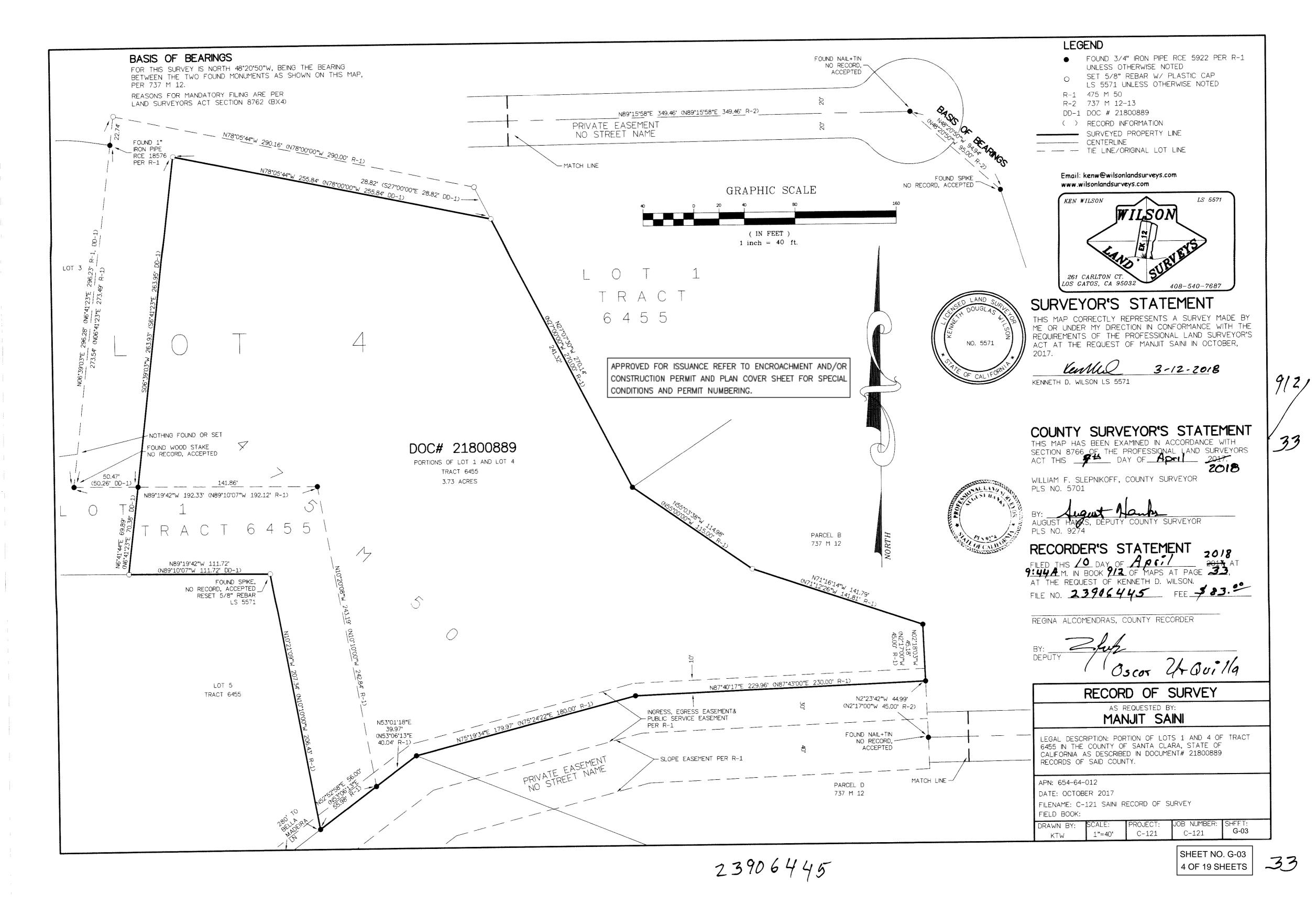
GEOTECHNICAL NOTES:

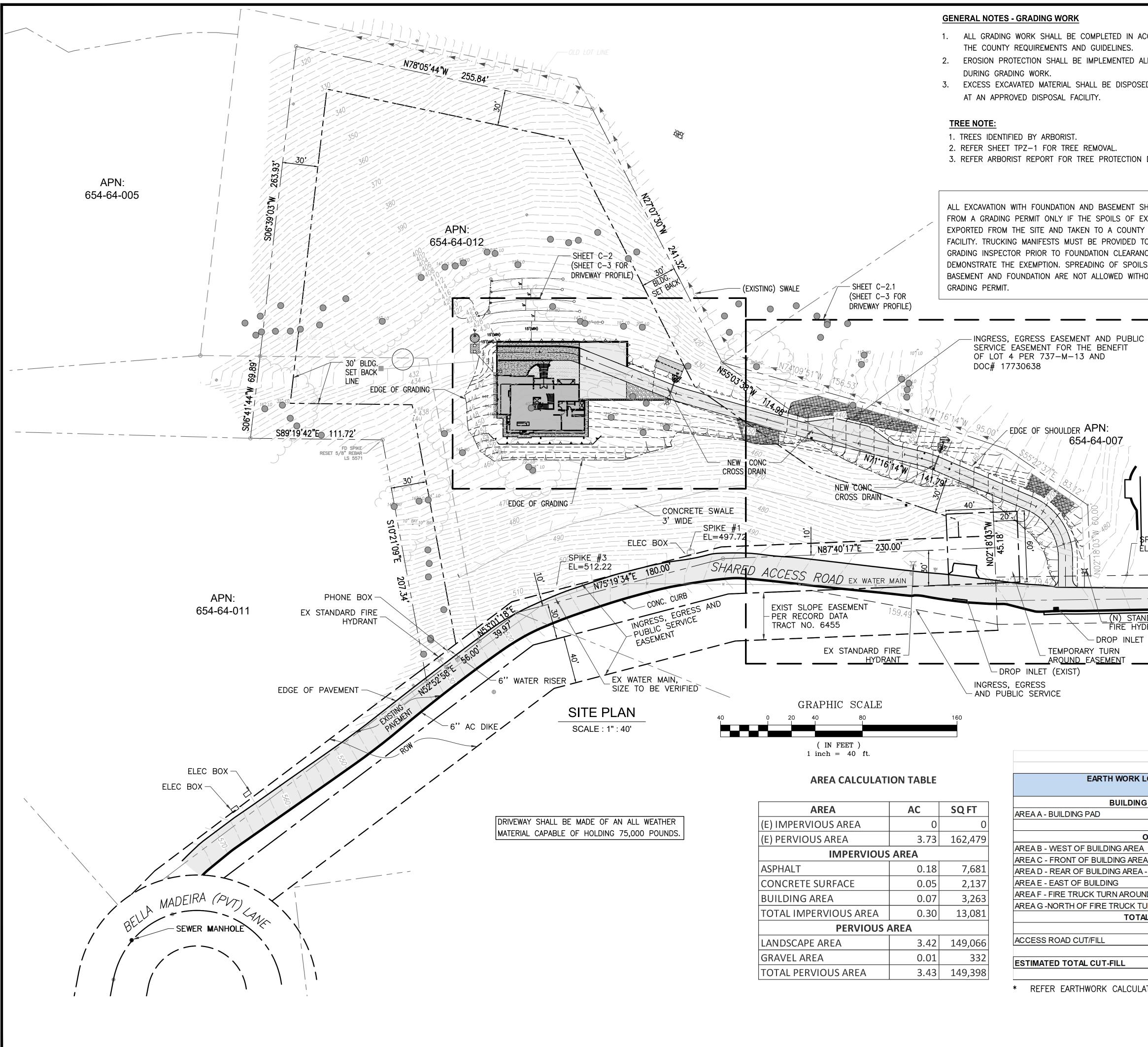
- 1. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING AND GEOTECHNICAL WORK TO COORDINATE WORK IN THE FIELD.
- 2. ALL MATERIALS FOR FILL SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER. BEFORE IT IS BROUGHT TO THE SITE.
- 3. ALL AGGREGATE BASE AND ENGINEERED FILL THAT WILL SUPPORT STRUCTURES OR OTHER SITE IMPROVEMENTS IS TO BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE ASTM D1557-10 TEST METHOD.
- 4. UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%.
- 5. IN ALL PAVEMENT AREAS, THE UPPER 12 INCHES OF ALL TRENCH BACKFILL MUST BE COMPACTED TO AT LEAST 95% RELATIVE COMPACTION.

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING.



³ OF 19 SHEETS

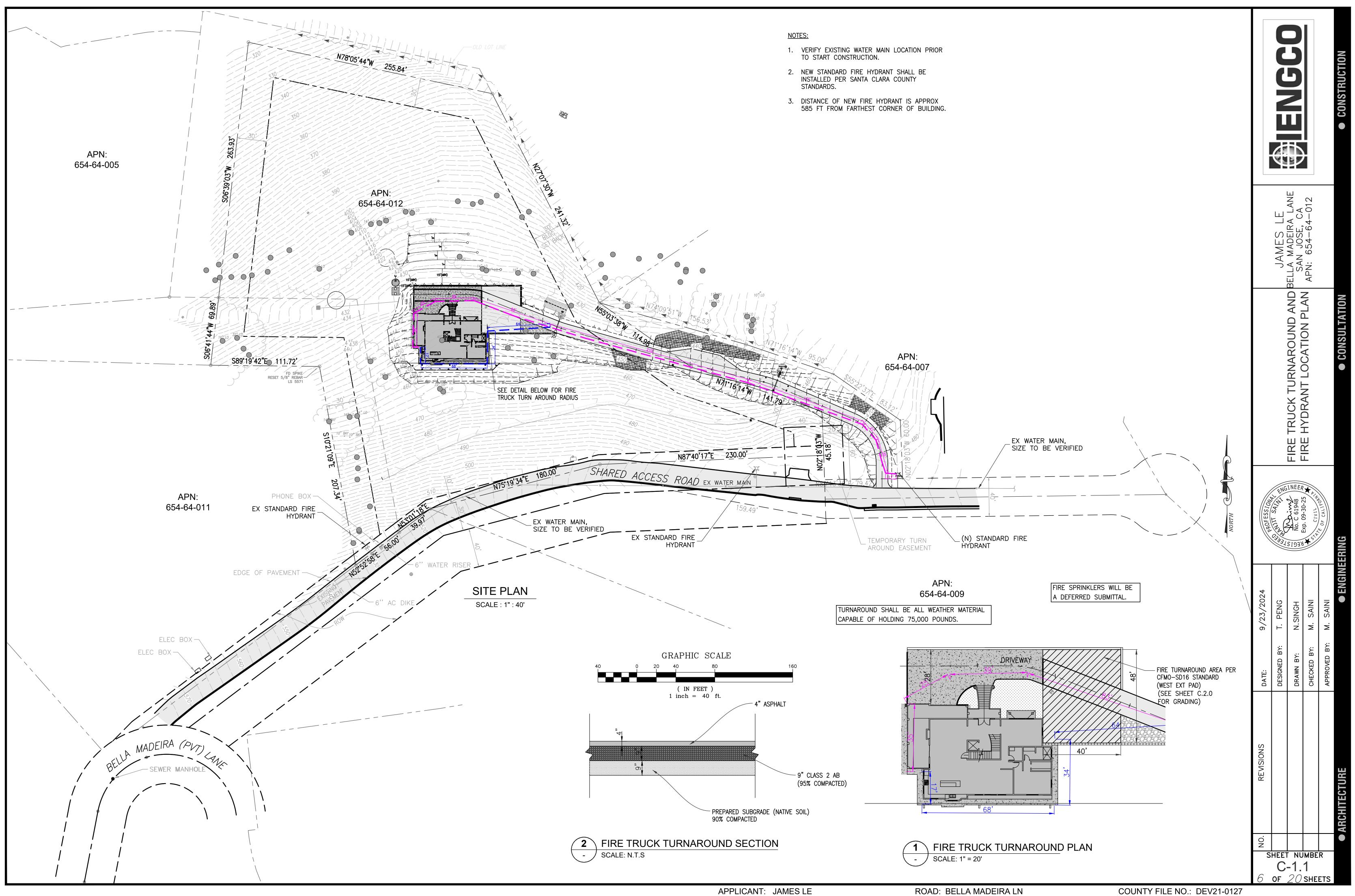




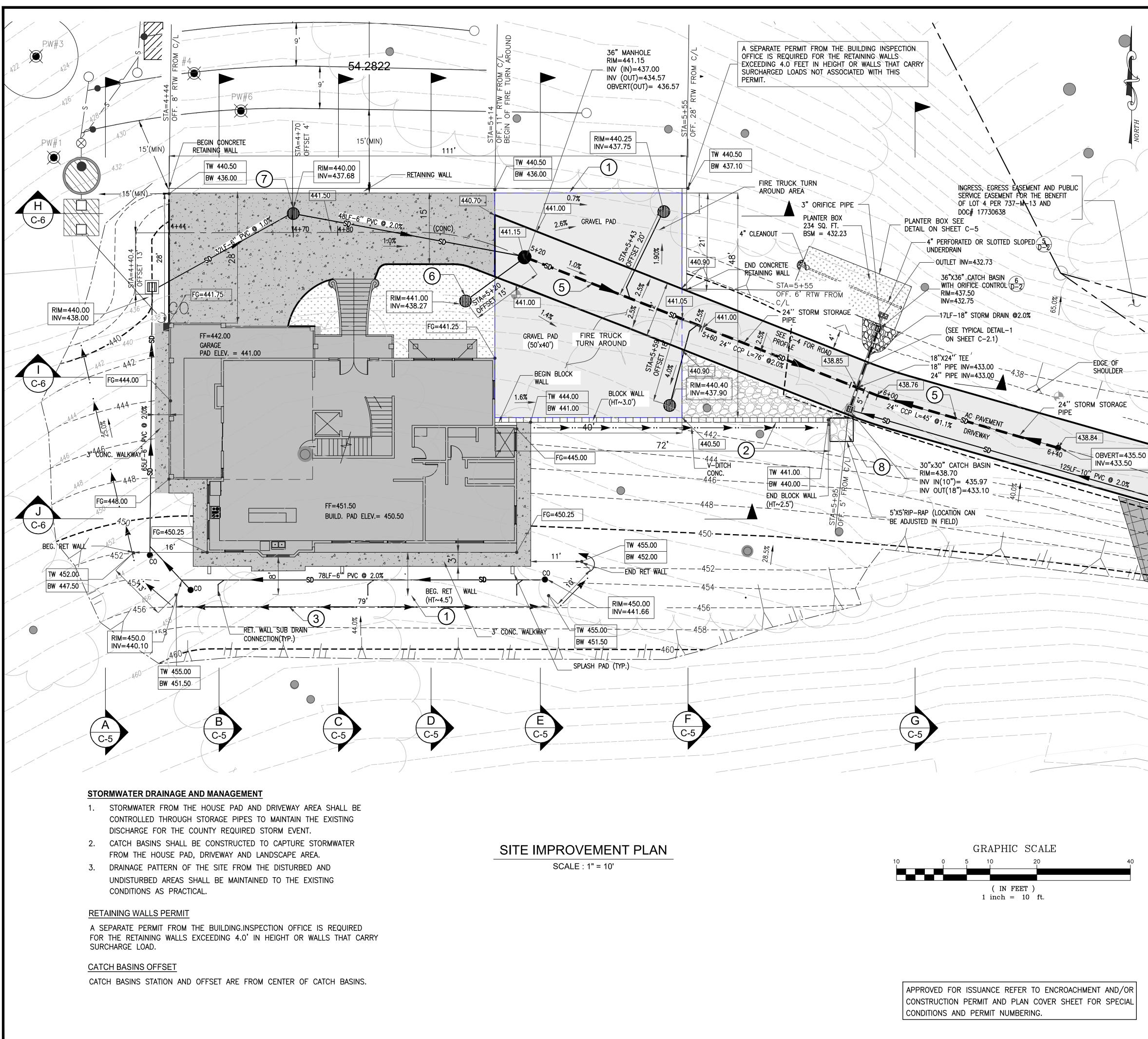
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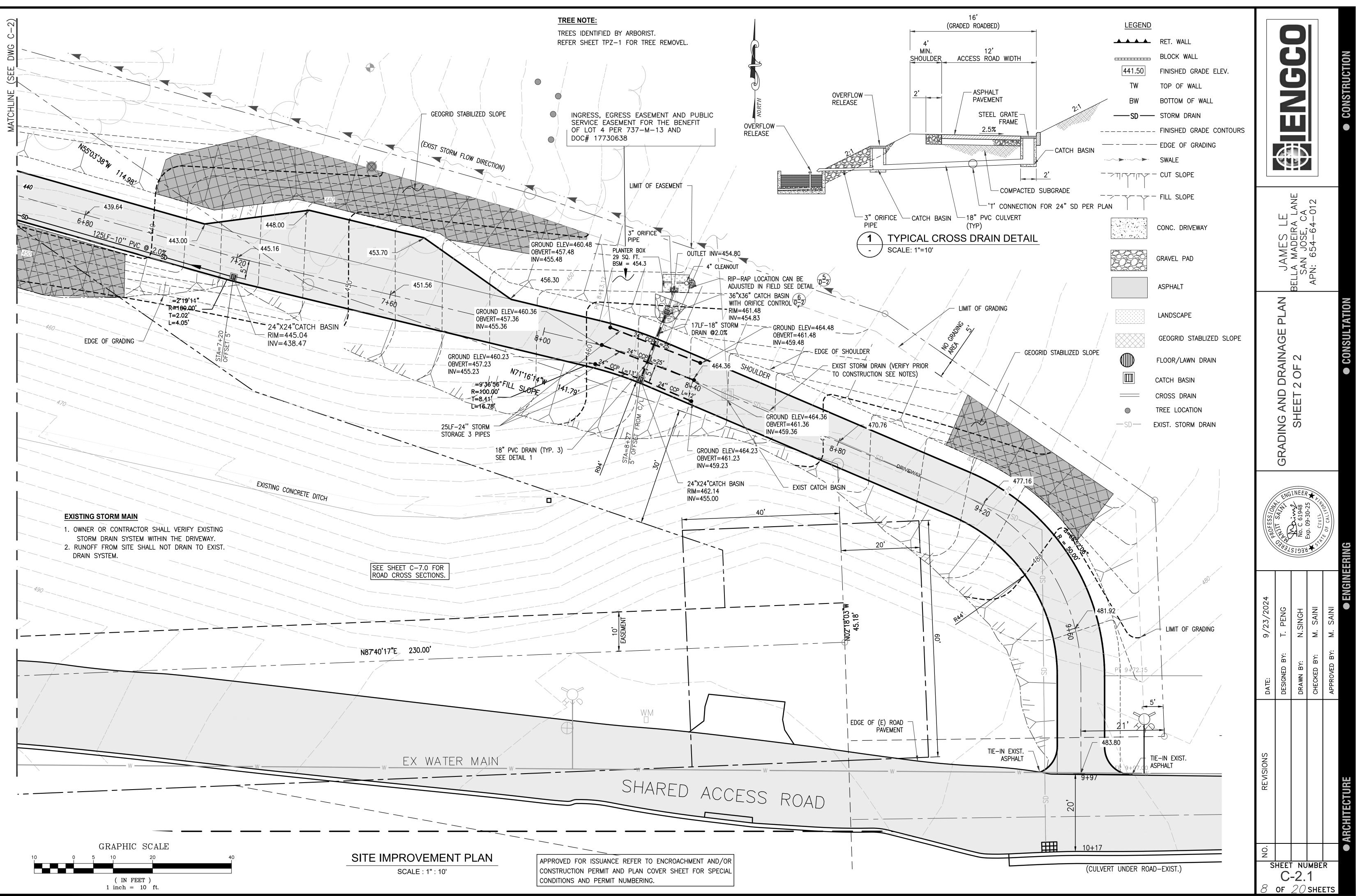




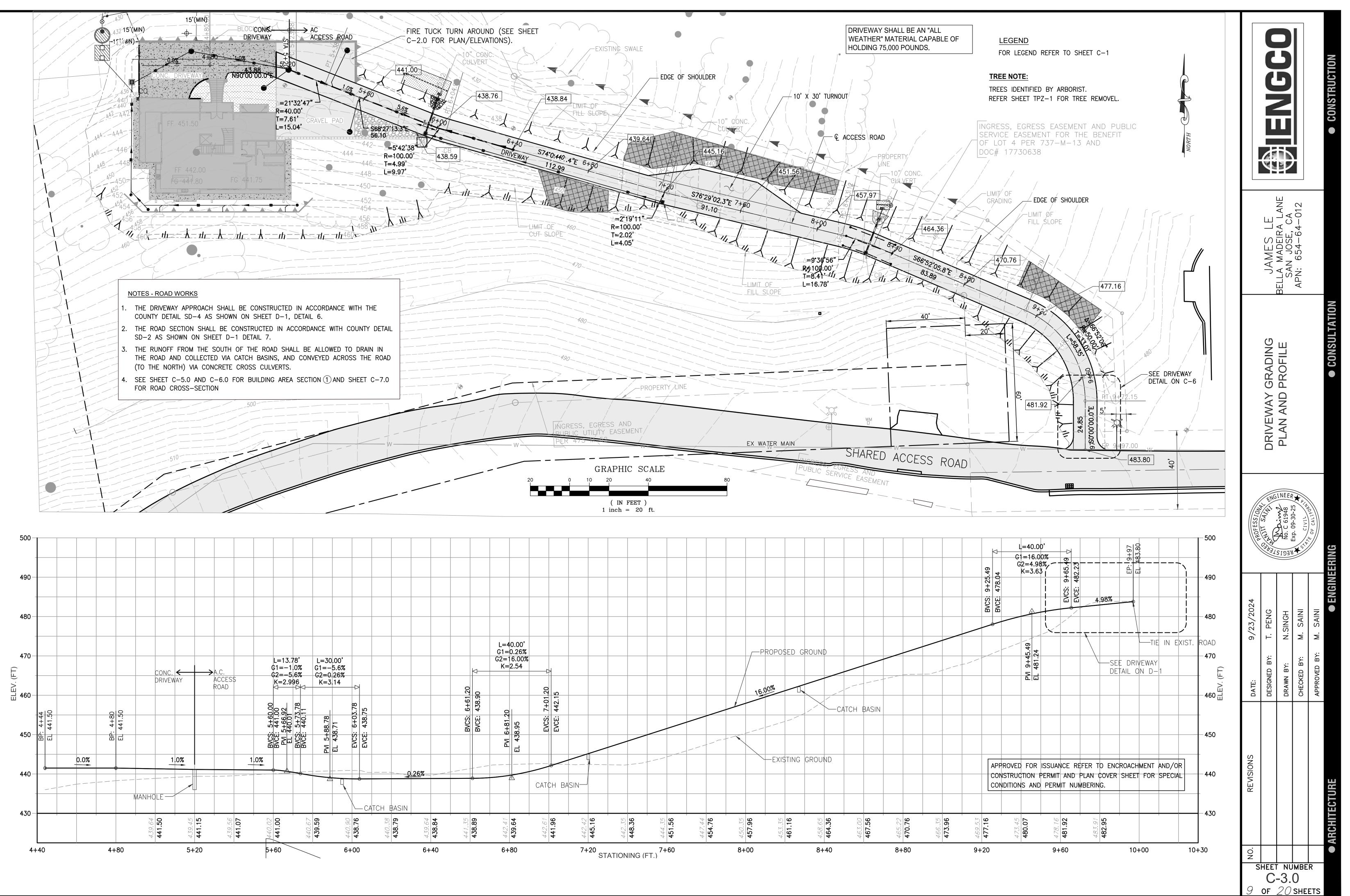


UPPERMOST CON LOWERMOST CON ELEVATION DIFFER	SLOPE (AVERAGE)TOUR ELEVATION= 464 FTTOUR ELEVATION= 404 FTRENCE= 56 FTEN CONTOURS= 60 FT= 16/60 = 30%					
GENERAL SITE S	SLOPE - HOUSE PAD AREA					
LOWERMOST CON ELEVATION DIFFER	TOUR ELEVATION= 469 FTTOUR ELEVATION= 446 FTRENCE= 23 FTEN CONTOURS= 90 FT $= 23/90 = 25\%$					
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7 of 20 sheets

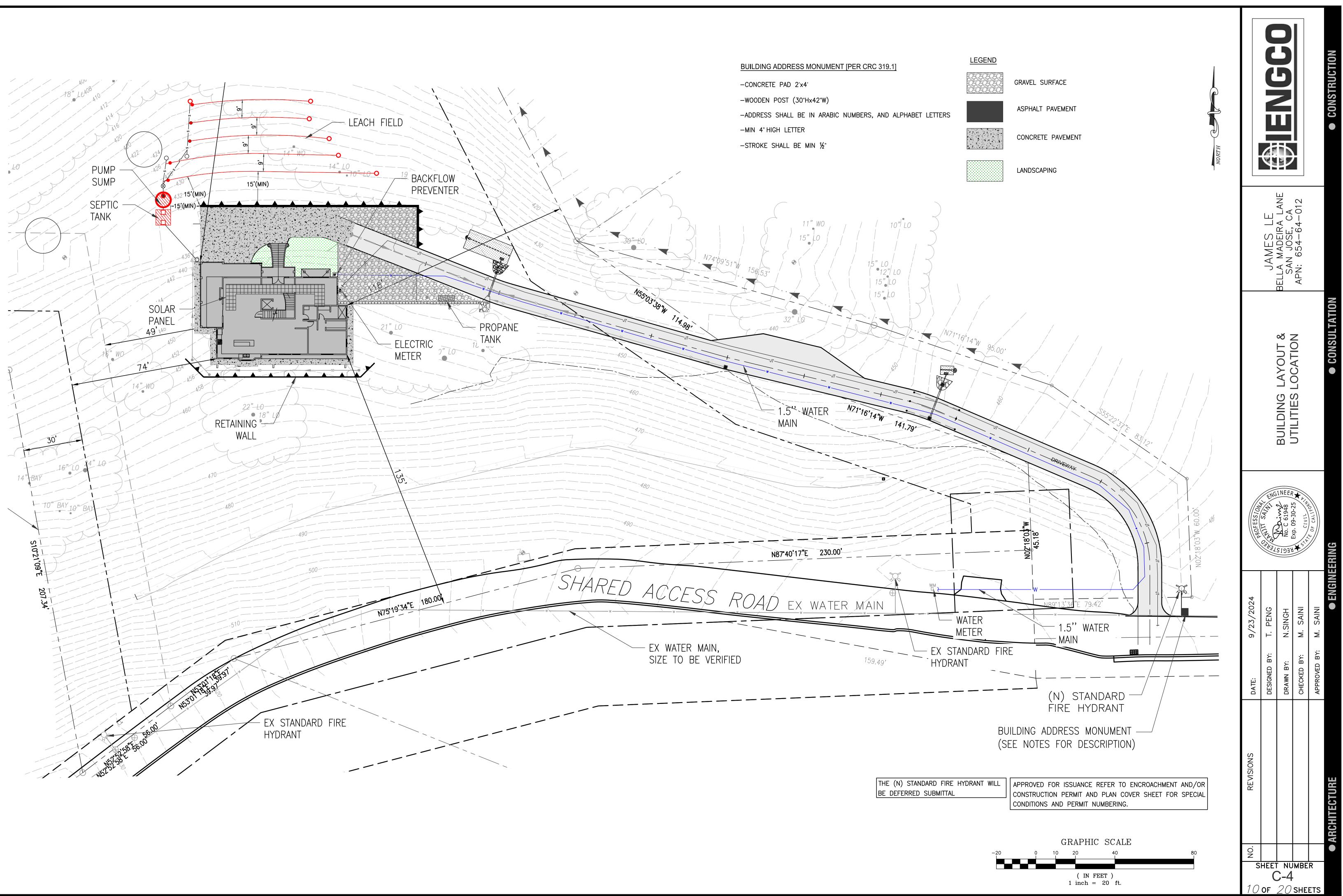


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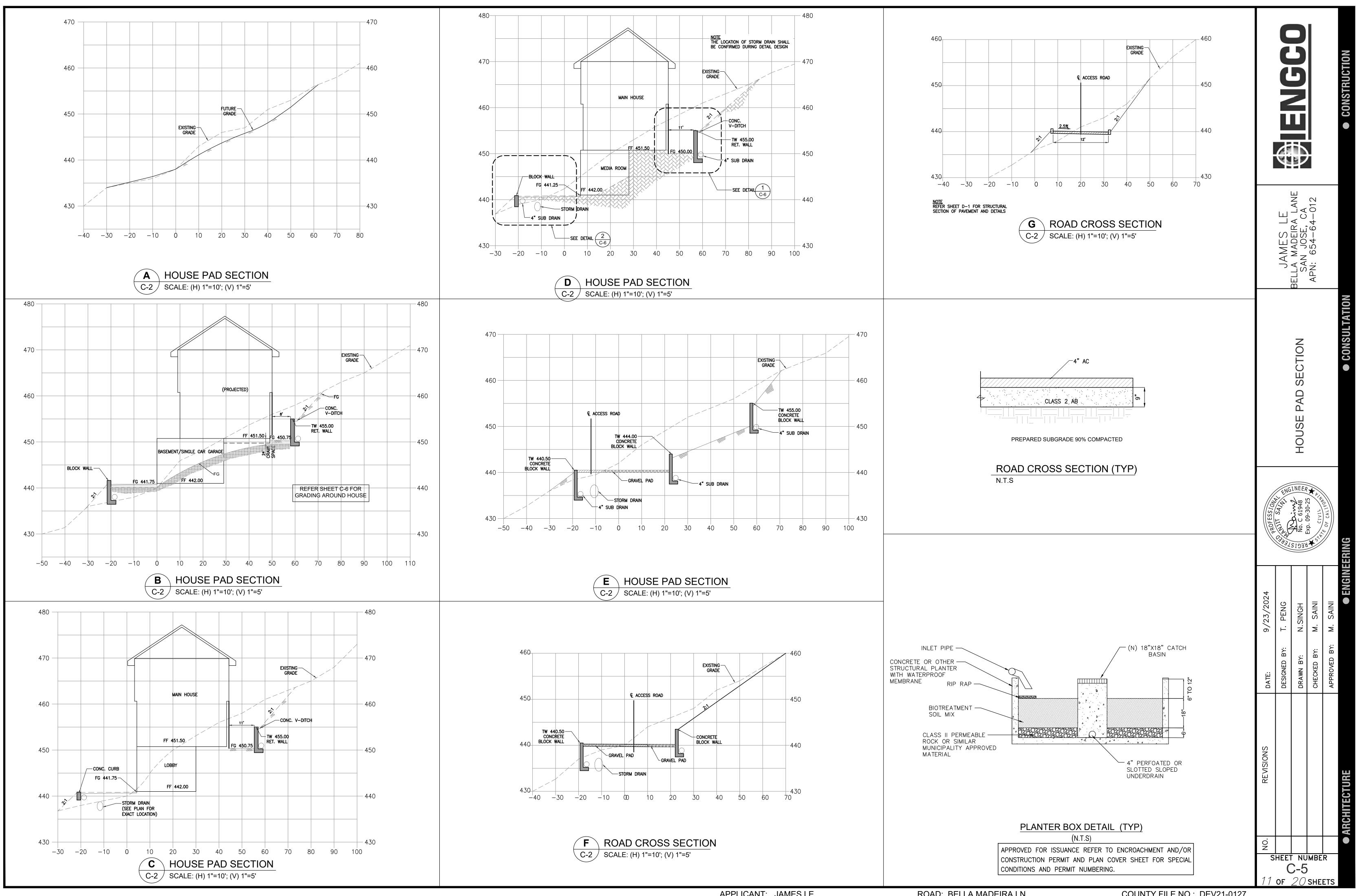


ROAD: BELLA MADEIRA LN

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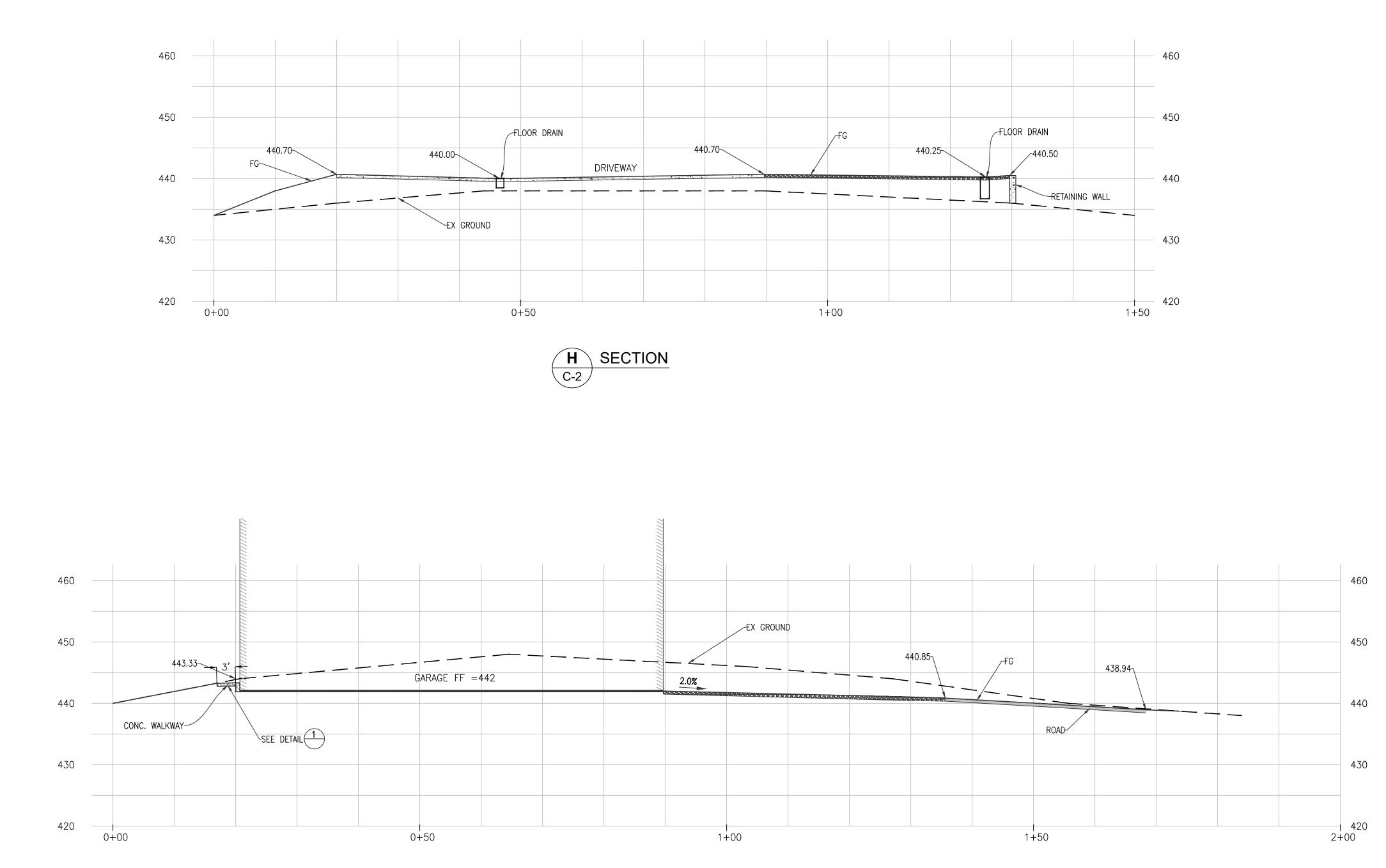


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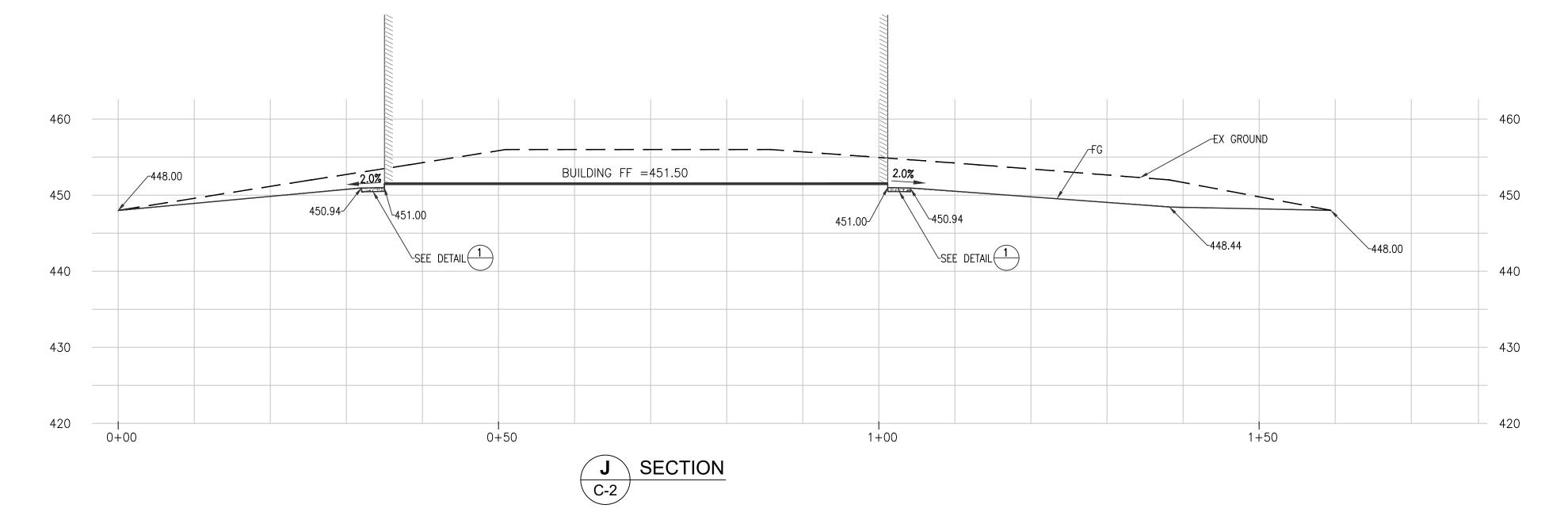


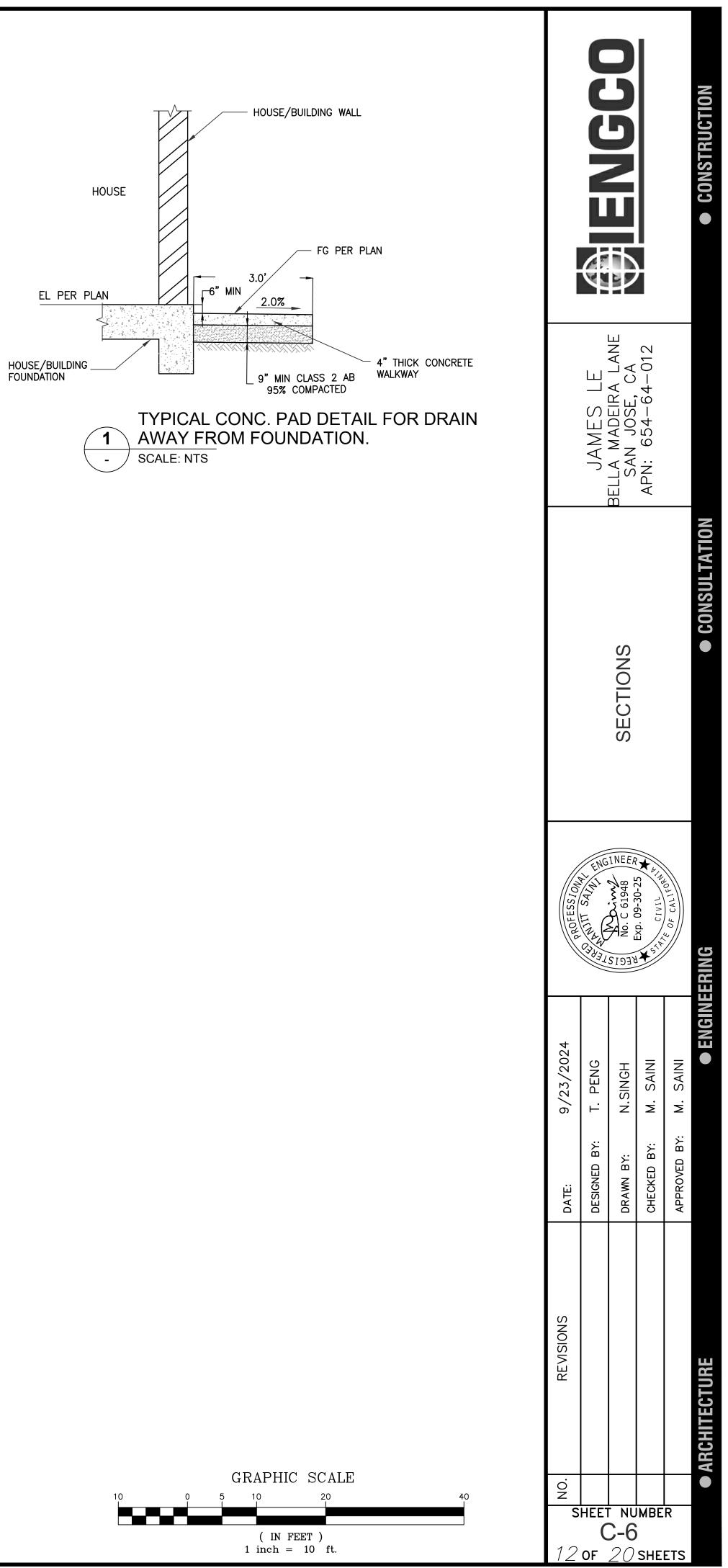
APPLICANT: JAMES LE

COUNTY FILE NO .: DEV21-0127



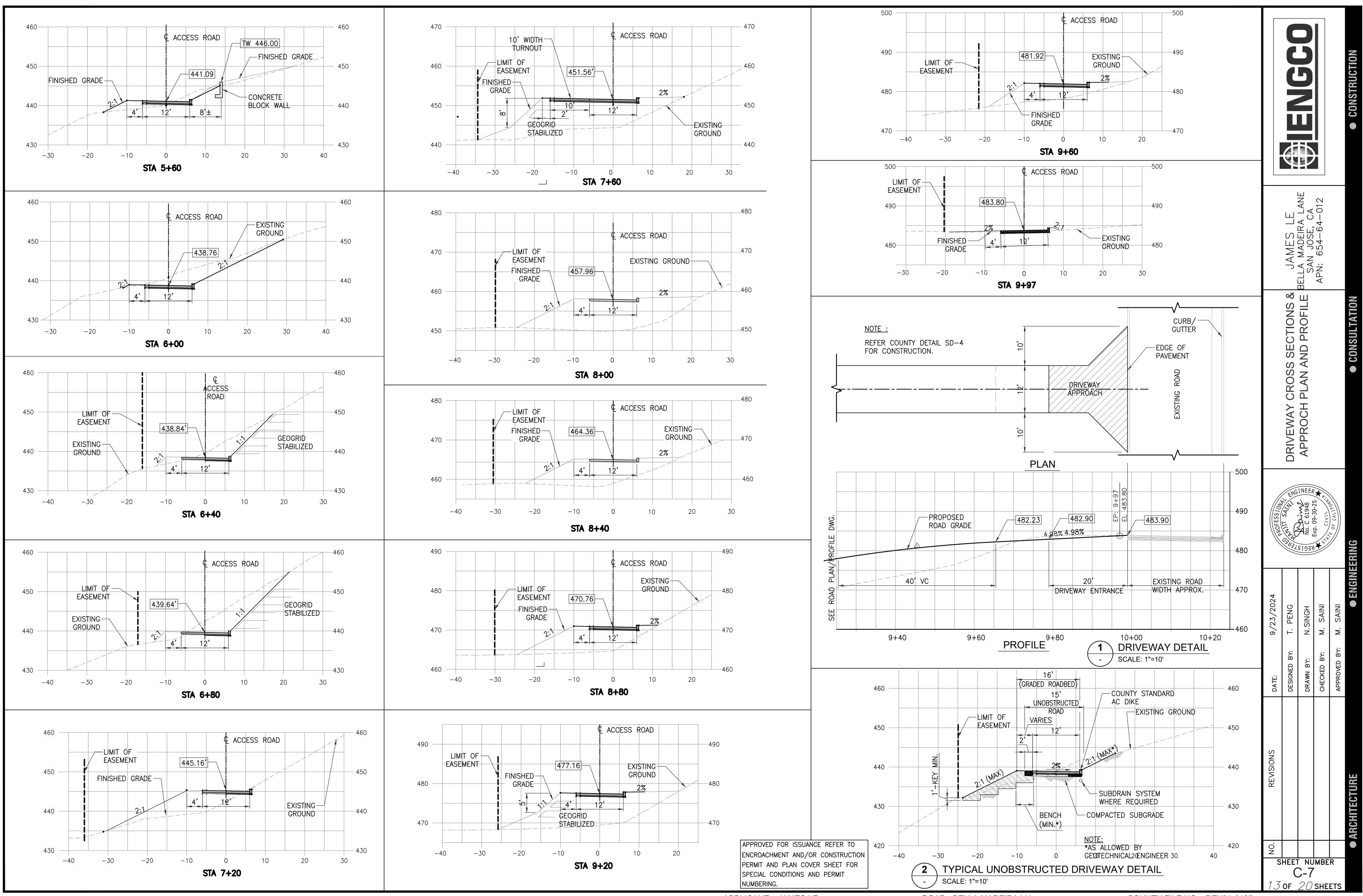
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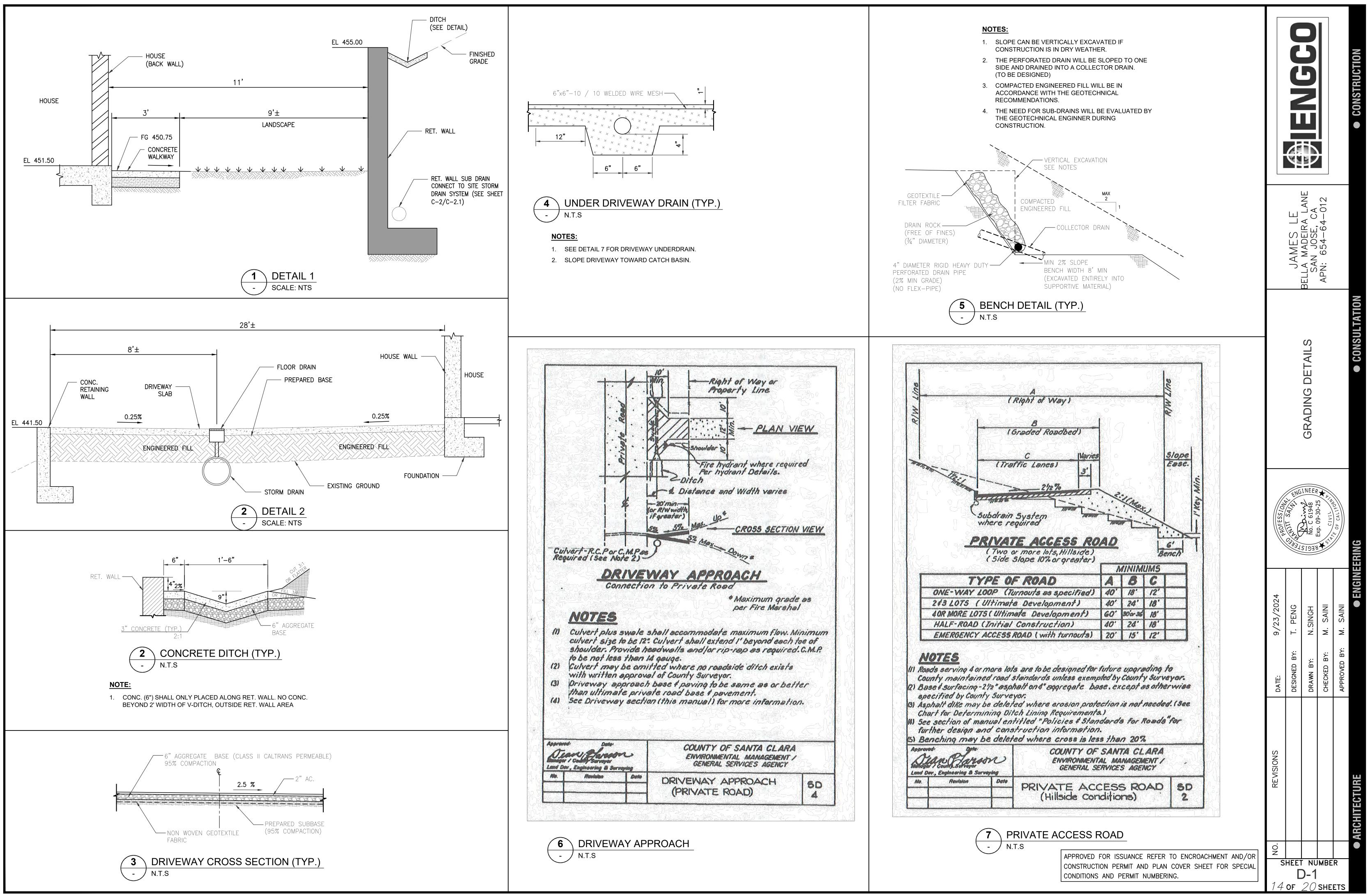
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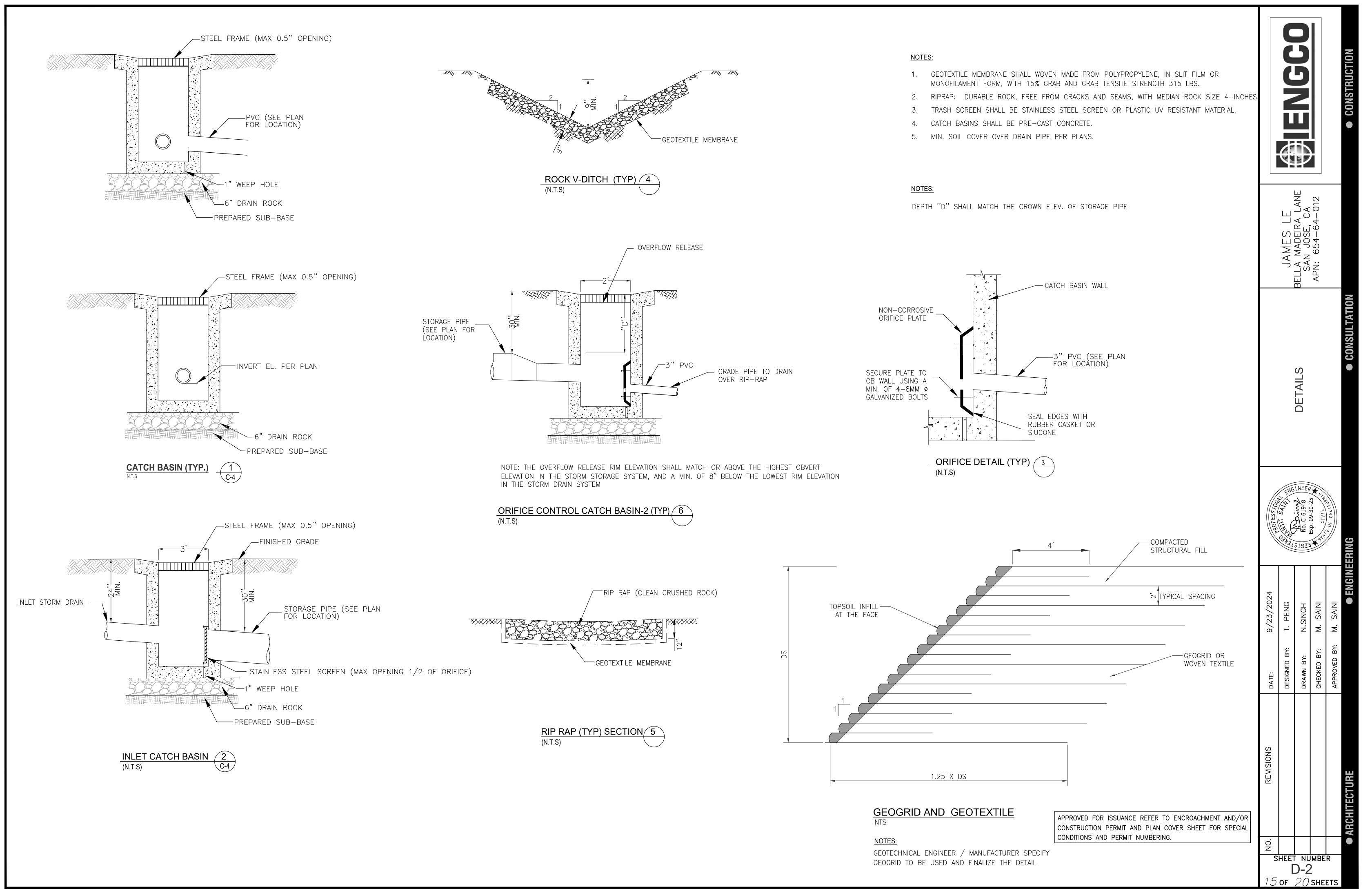
APPLICANT: JAMES LE

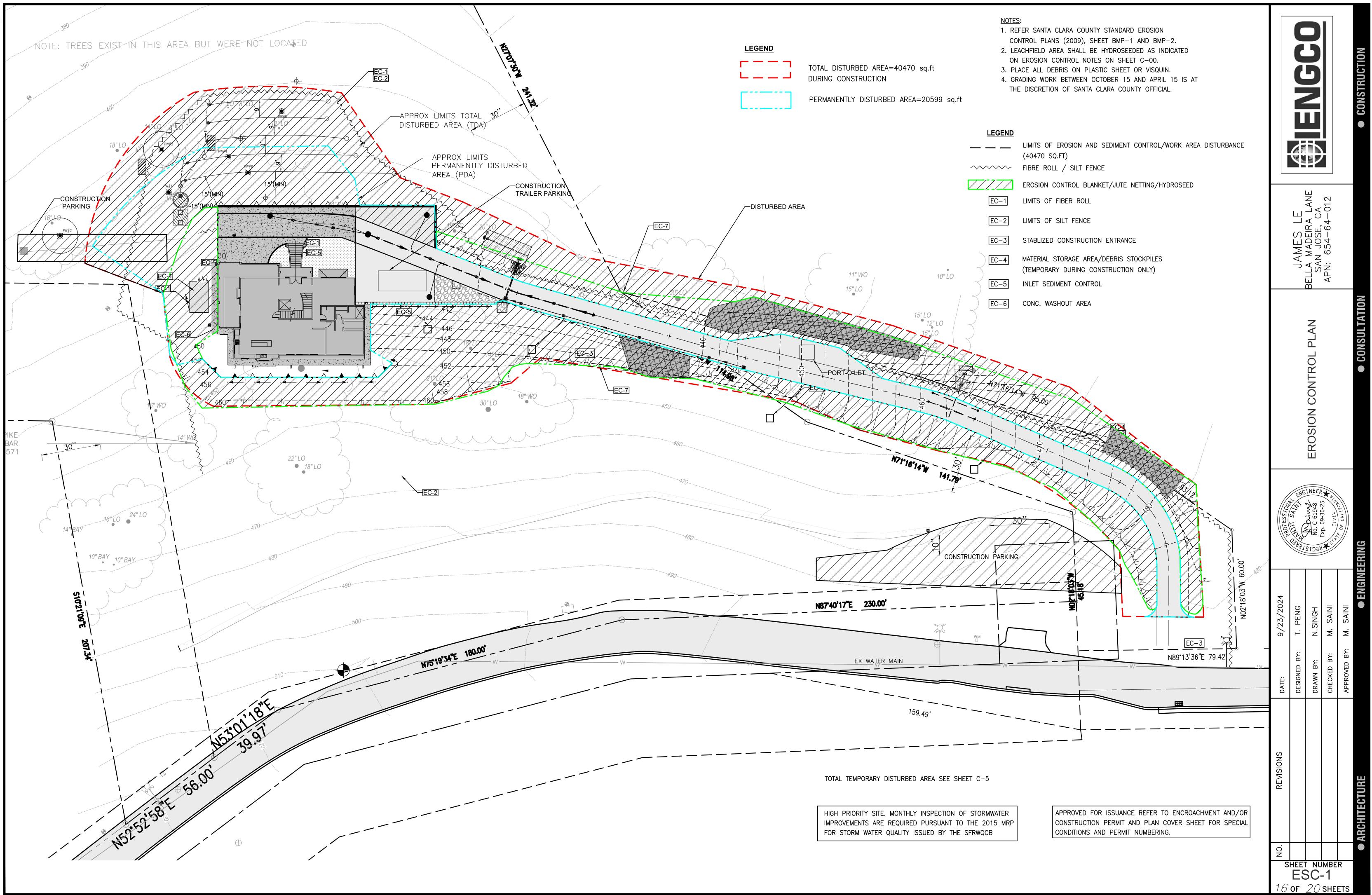
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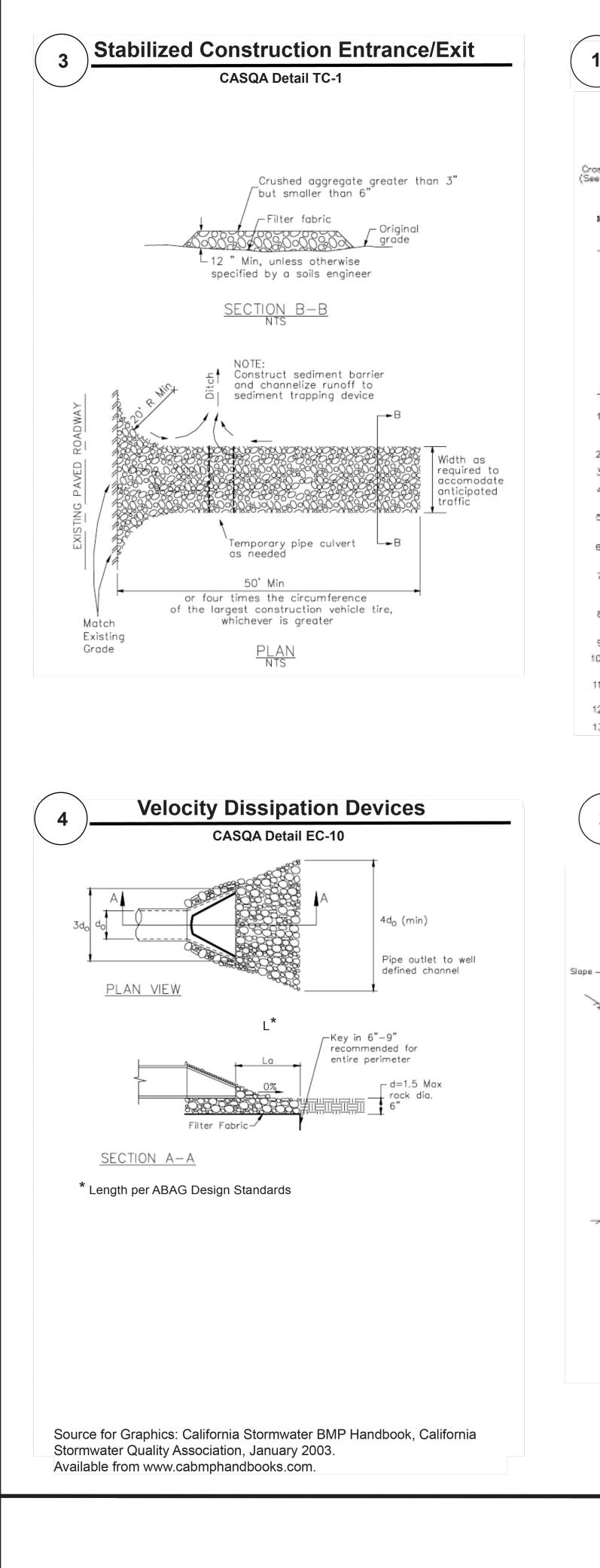
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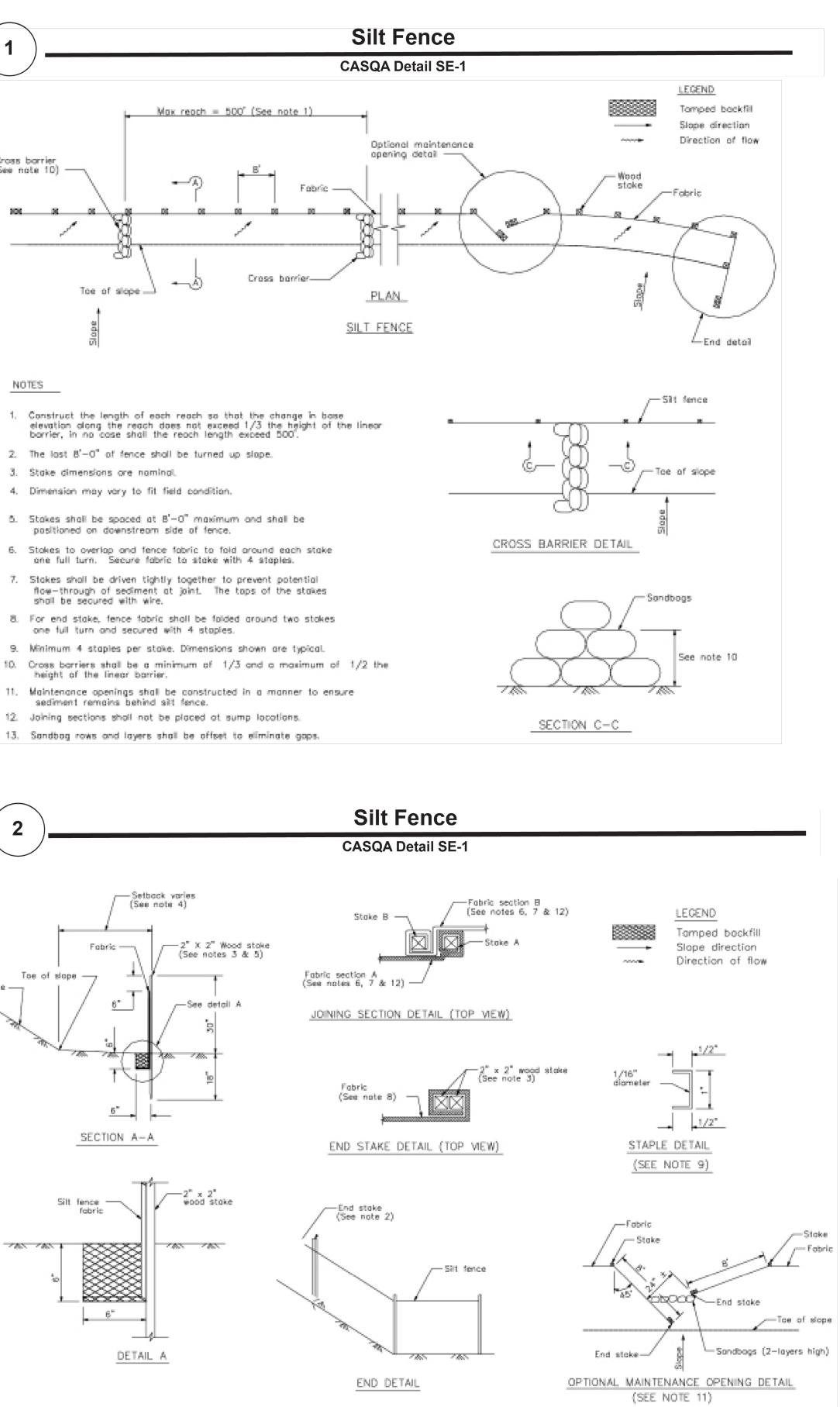


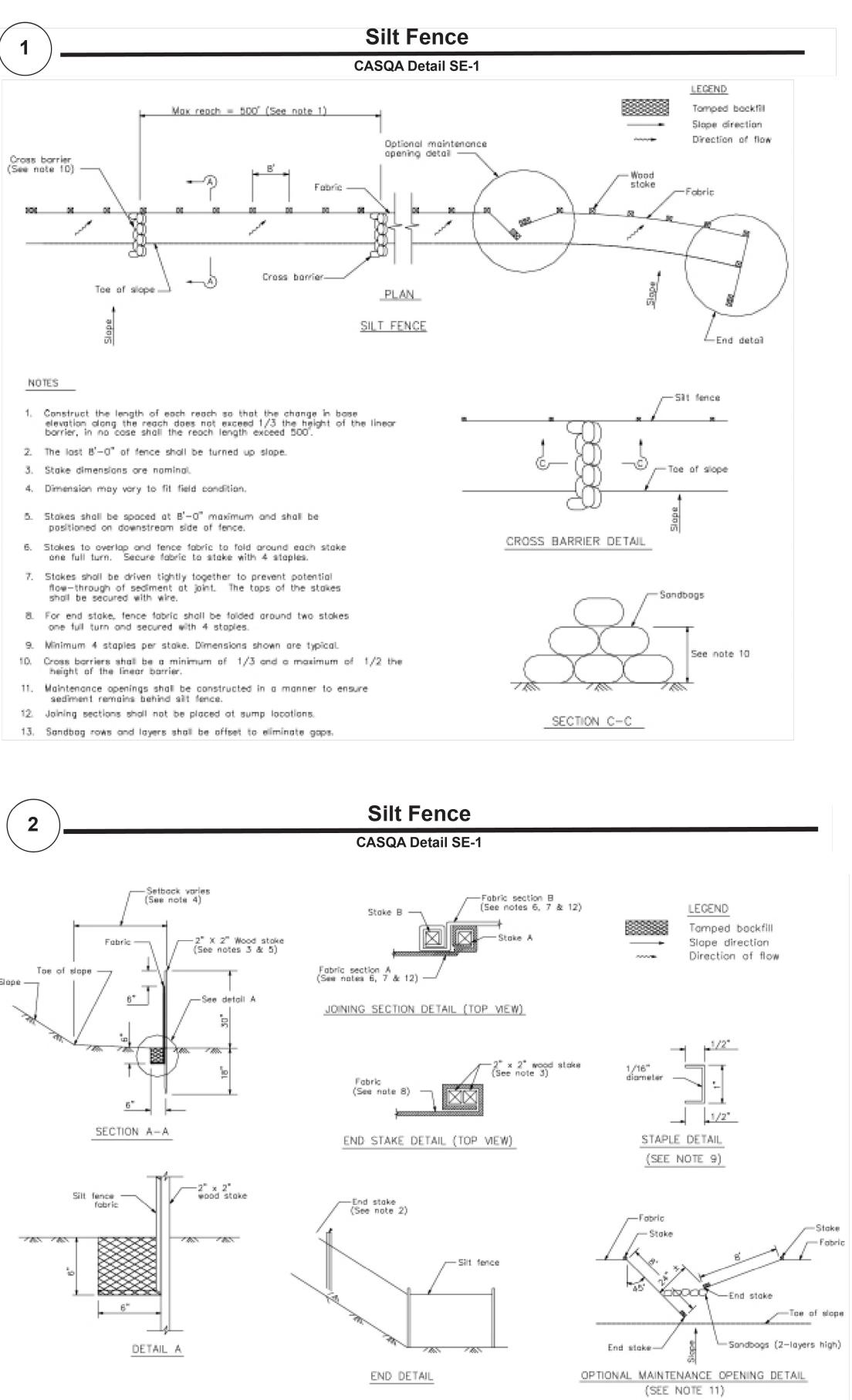
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APPROVED FOR ISSUANCE WORK

# STANDARD BEST MANAGEMENT PRACTICE NOTES

- 1. <u>Solid and Demolition Waste Management</u>: Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C3) or latest.
- 2. <u>Hazardous Waste Management</u>: Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
- 3. <u>Spill Prevention and Control</u>: Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
- 4. <u>Vehicle and Construction Equipment Service and Storage</u>: An area shall be designated for the maintenance, where onsite maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C9) or latest.
- 5. <u>Material Delivery, Handling and Storage</u>: In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
- 6. <u>Handling and Disposal of Concrete and Cement</u>: When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- 7. <u>Pavement Construction Management</u>: Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reschedule paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
- 8. Contaminated Soil and Water Management: Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
- 9. <u>Sanitary/Septic Water Management</u>: Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste haulers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
- 10. Inspection & Maintenance: Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

Best Management Practices and Erosion Control Details Sheet 1 County of Santa Clara

APPLICANT: JAMES LE

# STANDARD EROSION CONTROL NOTES

1. Sediment Control Management:

Tracking Prevention & Clean Up: Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/exit is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or, more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.

Storm Drain Inlet and Catch Basin Inlet Protection: All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber roles or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.

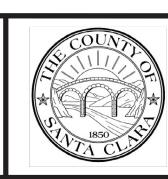
Storm Water Runoff: No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.

<u>Dust Control</u>: The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.

Stockpiling: Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures(tarps, straw bales, silt fences, ect.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.

- 2. Erosion Control: During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
- 3. Inspection & Maintenance: Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/ or alternative control measures implemented immediately, within 24 hours of the problem being identified.
- 4. <u>Project Completion</u>: Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
- 5. It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
- 6. Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

APPROVED FOR ISSUANCE REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS AND PERMIT NUMBERING.



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JAMES L Bella Madeira San Jose, APN: 654–64

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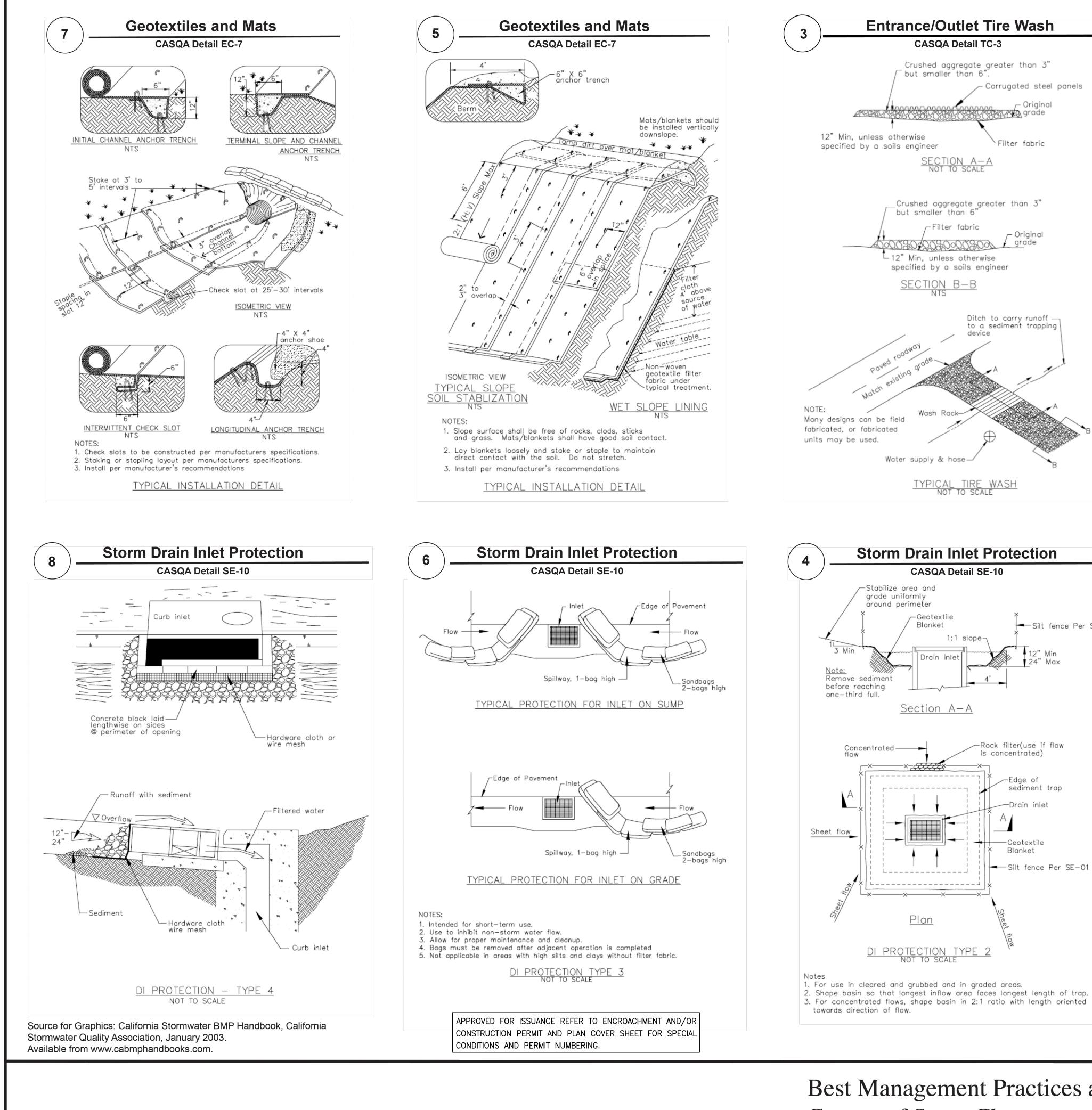
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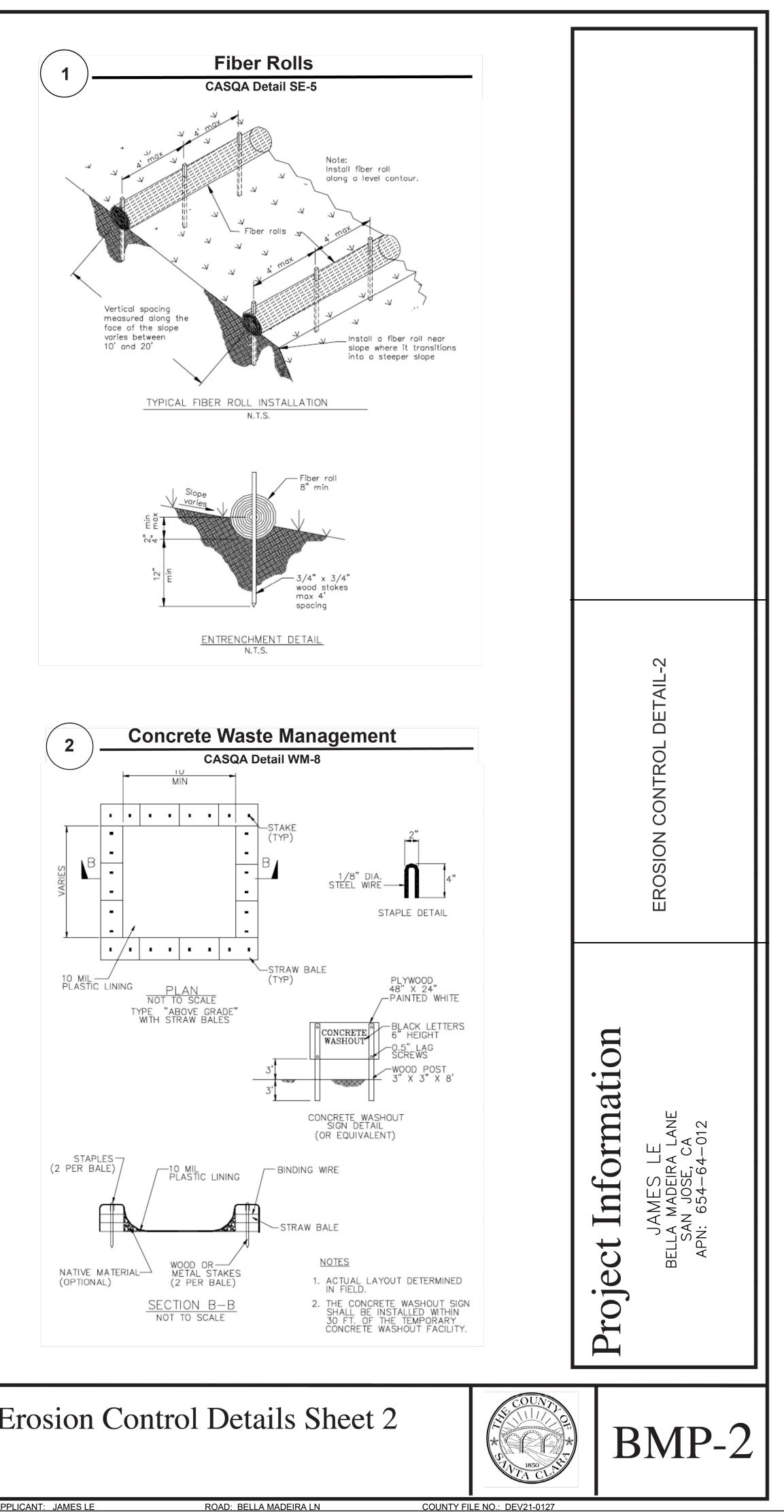
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Best Management Practices and Erosion Control Details Sheet 2 County of Santa Clara

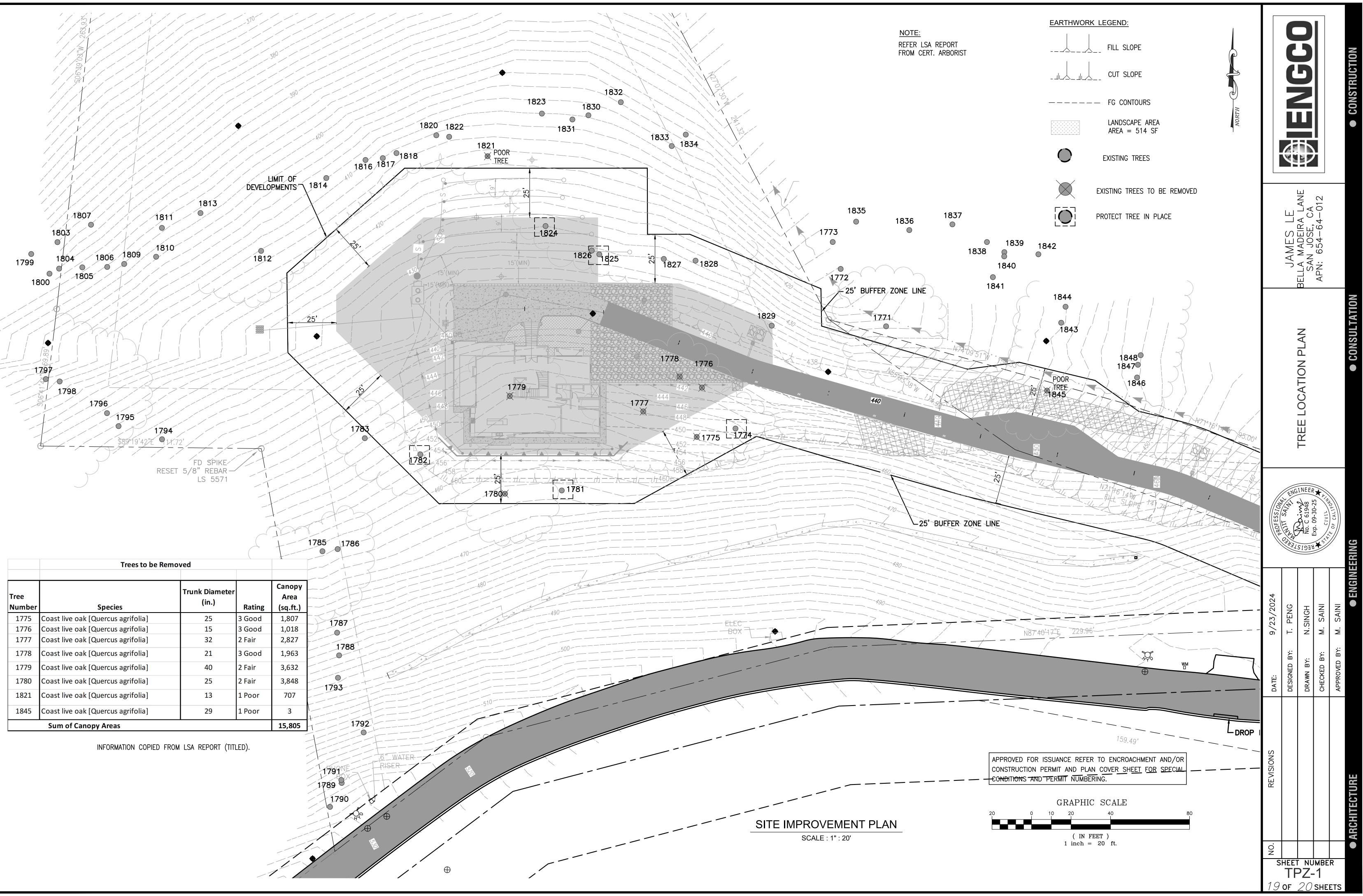
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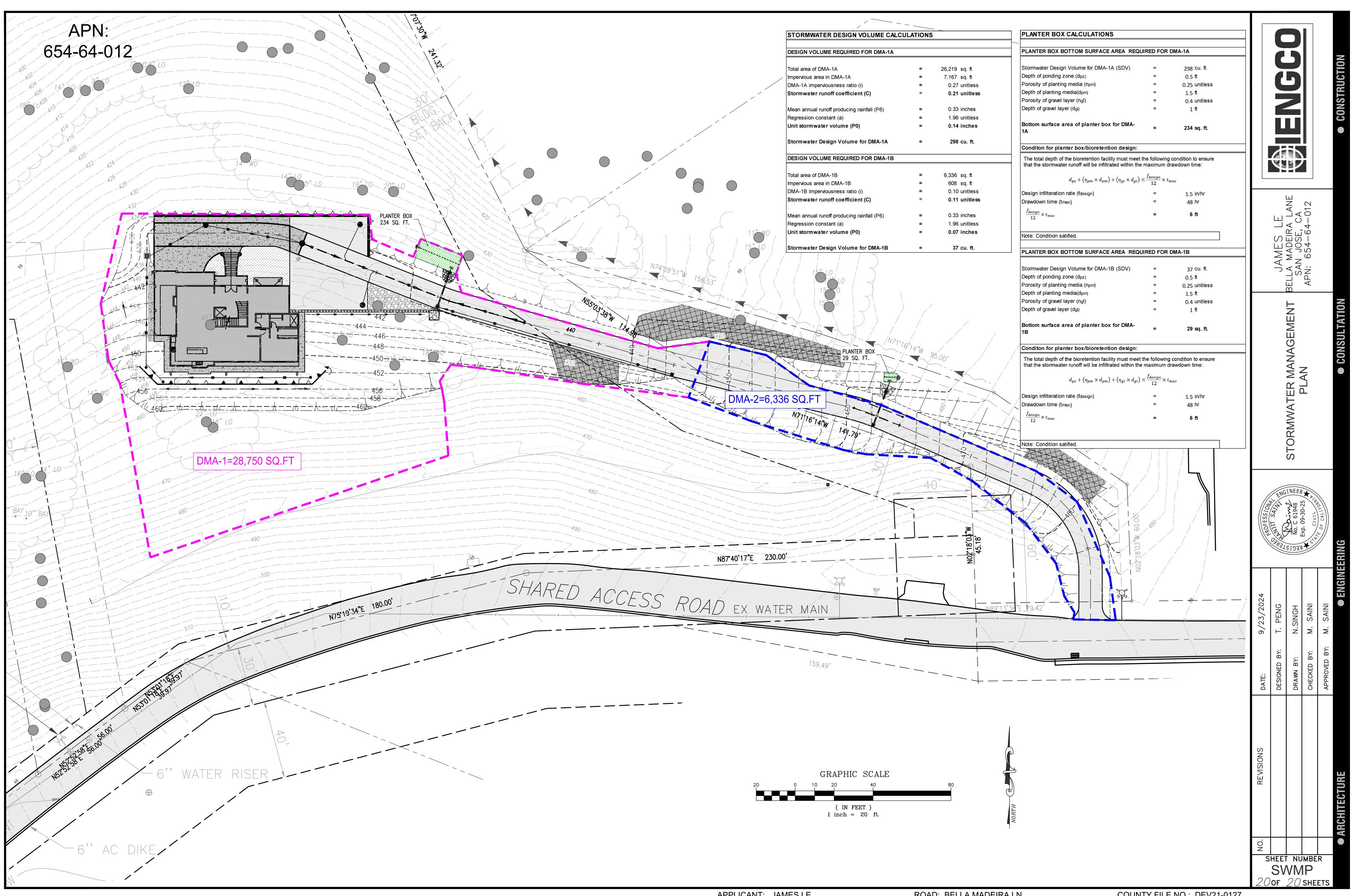
24" Max

Drain inlet



APPLICANT: JAMES LE

COUNTY FILE NO .: DEV21-0127



## NOTES:

- 1. CONCRETE SEPTIC TANK IS FOR A 5 BEDROOM HOUSE.
- 2. CONCRETE (PRE-CAST) SEPTIC TANK CONSISTS OF 1500 GALLONS IN CAPACITY. SEPTIC TANK HAS COMPARTMENTS WITH 10 LONG 1-10 OF AIRSPACE AND 5'-1" LIQUID DEPTH.
- 3. SEPTIC TANK SHALL BE DESIGNED AS PER SANTA CLARA COUNTY STANDARDS.
- 4. PRE FABRICATED SUMP SHALL HAVE 1.5 DAYS WASTEWATER STORAGE (600X1.5-900GALLON) 100 GALLONS DOSING VOLUME, 450 GALLONS FROM TANK BOTTOM TO DOSING FOR DETAIL SEE PUMP SYSTEM WORKSHEET ON SHEET LF-2.
- 5. INSTALLATION SHALL CONFORM TO SANTA CLARA COUNTY SEWAGE DISPOSAL ORDINANCE. CALL SANTA CLARA COUNTY DEPARTMENT OF ENVIRONMENT HEALTHS (DEH) 24 HOURS PRIOR FLOW. EACH ENDS WITH INSPECTION RISERS. TO START OF WORKS FOR INSPECTION (408) 918-3400.
- 6. WATER TIGHTNESS TESTING SHALL BE IN ACCORDANCE WITH SANTA CLARA COUNTY DEH SPECIFICATIONS.
- 7. THE SEPTIC TANK SHALL BE WATER TIGHT AND BE TESTED.

## PERCOLATION TEST NOTE

TEST #2 & #3 FAILED PERC TEST. REF. SHEET LF-4, FOR FILED TEST DATA.

## SUMP PUMP AND STORAGE TANK

ORENCO SYSTEMS PRODUCT HAS PROPOSED FOR THE SITE OR USE OTHER APPROVED EQUAL SYSTEM. REFER SHEET LF-4, LF-5 AND LF-6 FOR ORENCO DEATILS.

## TOPOGRAPHIC SURVEY

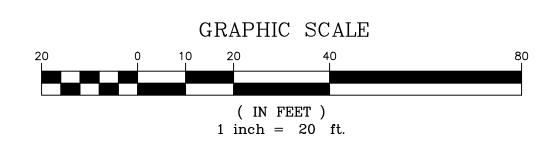
THE TOPOGRAPHIC SURVEY FOR THE SITE WAS COMPLETE BY WISLSON SURVEY. REFER CIVIL PLANS (SHEETS C-2) FOR DETAIL.

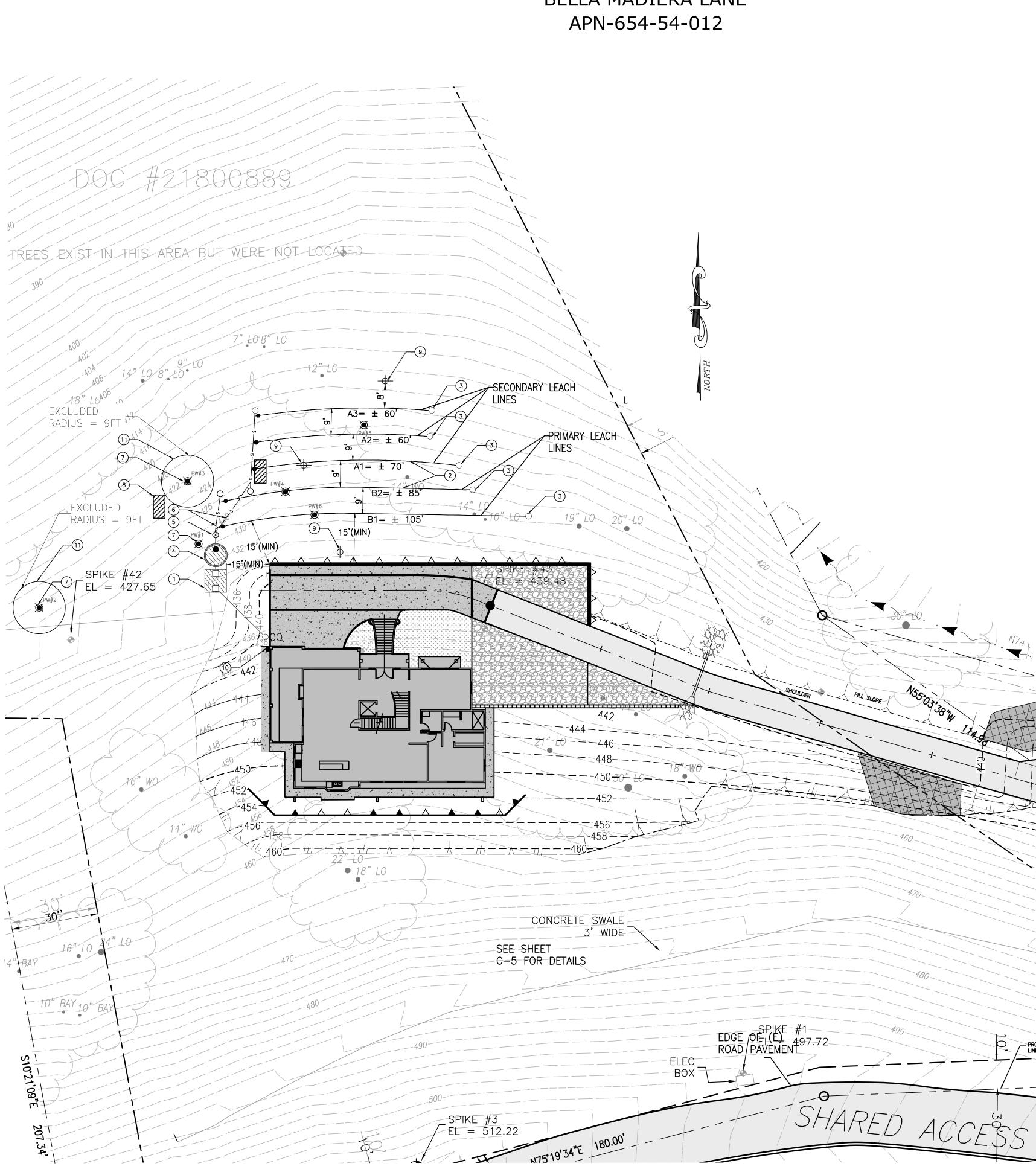
## **OPERATING PERMIT:**

- 1. A OWNER SHALL OBTAIN A SANTA CLARA COUNTY OPERATING PERMIT THE PD SYSTEM
- 2. OWNER SHELL SIGN AN ON-GOING SERVICE AGREEMENT WITH A SERVICE COMPANY PRIOR TO START OPERATIONAL.
- MONITORING FREQUENCY: AT A MINIMUM FOLLOWING MONITORING FREQUENCY SHELL BE ACCEPTED -YEAR 1 THROUGH 4 = SEMI ANNUAL YEAR 5 AND BEYOND = ANNUAL

## SHALLOW PRESSURE DOSING SYSTEM CALCULATIONS:

SHALLOW PRESSURE DOSING SYS	TEM	DESIGN
DEVELOPMENT SITE SLOPE	=	33%
NUMBER OF BEDROOMS	=	5
DESIGN FLOW	=	600 GPD
DEPTH OF GROUNDWATER AT SITE	=	>40 FT
PERCOLATION RATE IN LEACH FIELD AREA	=	2.2-6.7 MPI
NO. OF DOSES - PER DAY	=	43
DOSING PIPE SIZE	=	1.5 IN
DOSING PIPE VOLUME	=	17 GAL
EACH DOSE VOLUME (80% OF DOSING PIPE		
VOLUME)	=	14 GAL
TANK VOLUME	=	1500 GAL
WASTEWATER APPLICATION RATE	=	0.8 GPD/FT ²
EFFECTIVE INFILTERATIVE AREA	=	$4 \text{ FT}^2$
TRENCH WIDTH	=	2 FT
TRENCH LENGTH	=	188 FT





APPLICANT: JAMES LE

# JAMES LE RESIDENTIAL DEVELOPMENT (SHALLOW PRESSURE DISTRIBUTION SYSTEM) BELLA MADIERA LANE

ROAD: BELLA MADEIRA LN

COUNTY FILE NO.: 10706-17G

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		1	) SEPTIC TANK						
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<ul> <li>WONTORNO WELL/ NSPECTION WELL PER COUNTY DETAILS (TPF.)</li> <li>SUMP PUNC CONTROL PARTI ON GAMAGE WAI.</li> <li>FALNO TEST HOLE LIMIT (APPROX 255 50 FT.)</li> </ul> SHEET INDEX           SUM         FALLON TEST HOLE LIMIT (APPROX 255 50 FT.)             SUM         SUMP RESSURE DISTRIBUTION S-STEM LEACH FIELDS PLAN.           1         LF-1           2         LF-2           1         LF-1           10         LF-1           10         LF-1           10         LF-1     <		•			l	BE			
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# SCOPE OF WORK

- FOR SEPTIC WASTEWATER AT THE SITE INCLUDING:
- 2000 GALLONS SEPTIC TANK WITH GATE VALVE AT THE OUTLET. - SUMP PUMP SYSTEM FROM ORENCO DOSING.
- LEACH FIELD SYSTEM.

# **REASON OF ALTERNATIVE DISPOSAL SYSTEM**

THE GROUND SLOPE AT THE SITE IS >30%. THEREFORE, SHALLOW PRESSURE DISTRIBUTION SYSTEM IS PROPOSED AT THE SITE.

# GENERAL CONSTRUCTION NOTES

- 1. IMPLEMENT EROSION AND SEDIMENT CONTROL PLAN PRIOR TO START ANY CONSTRUCTION FOR THE LEACH FIELD SYSTEM IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL DRAWINGS INCLUDED IN CIVIL DRAWINGS.
- 2. CLEAR THE SITE FROM ALL VEGETATION PRIOR TO TRENCHING.
- 3. COORDINATE WITH THE COUNTY FOR LEACH FIELD
- LAYOUTS PRIOR TO START CONSTRUCTION. 4. OWTS AREA MUST BE FENCED-OFF DURING

CONSTRUCTION ACTIVITIES

# CONSTRUCTION INSPECTION NOTES

AT A MINIMUM, INSPECTION OF THE STANDARD GRAVITY FLOW SYSTEM INSTALLATION SHALL INCLUDE THE ITEMS LISTED BELOW.

- 1. PRE-CONSTRUCTION INSPECTION WHERE THE CONSTRUCTION STAKING OR MAKING OF THE VARIOUS SYSTEM COMPONENTS IS PROVIDED AND CONSTRUCTION PROCEDURES DISCUSSED.
- 2. WATER TIGHTNESS OF SEPTIC TANK AND DOSING (PUMP) TANK.
- 3. LAYOUT AND EXCAVATION OF DISPERSAL TRENCHES AND PIPING.
- 4. DRAIN ROCK MATERIAL AND PLACEMENT.
- 5. PIPING INSTALLATION AND HYDRAULIC ("SQUIRT") TEST OF THE DISTRIBUTION SYSTEM
- 6. FUNCTIONING AND SETTING OF ALL CONTROL DEVICES
- 7. FINAL INSPECTION TO VERIFY THAT ALL CONSTRUCTION ELEMENTS ARE IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS, ALL PERFORMANCE WELLS ARE INSTALLED; AND EROSION CONTROL HAS BEEN COMPLETED.

# CONSTRUCTION OF MONITORING WELLS/INSPECTION WELLS

- 1. INSPECTION WELLS SHALL BE CONSTRUCTED OF 3" DIAMETER PIPE, EQUIPPED WITH A WRENCH-TIGHT CAP OR PIPE PLUG, AND A BOTTOM CAP.
- 2. ALL WELLS SHALL BE PERFORATED BEGINNING AT A DEPTH OF 18 INCHES BELOW GRADE AND EXTENDING TO THE BOTTOM OF THE PIPE.
- 3. PERFORATIONS SHALL CONSIST OF HACKSAW SLOTS AT NOMINAL 1" SPACING, OR EQUIVALENT COMMERCIALLY-SLOTTED PIPE.
- 4. TO PREVENT SURFACE WATER INFILTRATION, INSPECTION WELLS SHALL BE SEALED WITH A BENTONITE OR CONCRETE ANNULAR SEAL (OR EQUIVALENT) TO A DEPTH OF 12 INCHES, MINIMUM.

## PRESSURE DISTRIBUTION PIPING SPECIFICATIONS

- a. Pressure-Rated Pipe Material. All pipe, fittings and valves shall be pressurerated PVC pipe, minimum 150 psi.
- Solvent Welded. All joints in the pressure piping system shall be solvent welded. b.
- Pipe Sizing. All pressure distribution pipes and fittings, including transport C. lines, manifolds, laterals and valves, must be adequately sized for the design flow, and shall be designed to minimize frictional losses to the maximum extent practicable.
- d. Thrust Blocks. Concrete thrust blocks, or equivalent restraint, shall be provided at sharp changes in piping directions.
- e. Shut-off Valves. The distribution lateral for each trench shall be fitted with a shut-off valve to adjust or terminate the flow to individual trenches. This valve may be either a ball or gate valve, and shall be located in a utility/valve box.
- Lateral End Riser. The end of each lateral shall be fitted with a 90° long sweep f. to facilitate line cleaning and hydraulic testing. The end riser pipe shall also be fitted with a ball valve and/or threaded end cap or plug, housed in a valve box.

## PUMP SYSTEM WORKSHEET

		Vetem Wadzenfet	
Annlinget Maniit On		YSTEM WORKSHEET	
ApplicantManjit Sa			Date_2022-03-11_
OwnerJames Lee		File	e No
Site AddressBella	Madiera	CitySan Jose	APN645-64-012
Designer (REHS or RCE			
Number of bedrooms	_5	Total square footage c	f living space6000
Septic tank size_	1500 GAL		
Installed drainfield_Sha	allow PD Syster	n Expansion drainfield	N/A
Elevation of highest drai	nfield (ft) =	7	
Elevation of pump off (ft)	. ,	0	
Total lift (Ft Hea		7	
Diameter of tight line (in	ches)		2
		drainfield (ft) (D)	2
Length of tight line from	pump to upper		15
NI 5 (711)		FITTINGS	
No. of Fittings		Pipe Length Equivalent (ft)	Total Pipe Equivalent (ft)
		See chart	
3 x 90 [°] standard	X	6	18
45 [°] standard elbow	X		
90 [°] long radius other fittings	X X		
1 x gate valve (fully	X	1.5	1.5
check valve	x	1.0	1.0
(conventional swing)			
		TOTAL (C) =	19.5
Total Length of Pipe (D	) = B + C =		34.5
	,	CALCULATIONS:	JJ
Friction Loss in Pipes			
Friction loss in 2 in pipe		<u></u> 4.16	(friction loss per chart)
	at 500F M -	I	, ,
(E) Head in ft		(D/100 ft) x4.16 =	1.4352
Required Pump Size:	-	1	1
Total Pumping Head, F	(ft) = (A) + (E)	8.4352	
Pump Size:			
(F) versus GPM = Pum	o Size (refer to p	oump curve)	
Pump Model: (Attach	n Pump Curve)		
_50_GPM at37_ (G	) (ft of head: fro	m pump curve)	
Manufacturer/Model -	Orenco Syster	ns / BEP50DD	1
Required Capacity in	Gallons		
Dosing Volume		17	
Storage Capacity (1 1/2 of	da <mark>ys)</mark>	900	
Pump Displacement	to nume here	16	
Volume from tank bottle Volume from Pump to D		100 350	
Total tank capacity		1383	GAL
Pump Tank Information			
· · · · ·	Suctomo		
Manufacturer- Orenco	osystems	Size: 1500 GAL	Gallons per inch: 25

 Condu dov dar Inspection oth Performed mar Ma Purge Exerci Perfor mar Maintenance Investi pro Investi requ Record Measu Measu Water we Monitoring Obtain & Sampling app Report Standa mo Reporting per sum Report

HEALTH, 2014

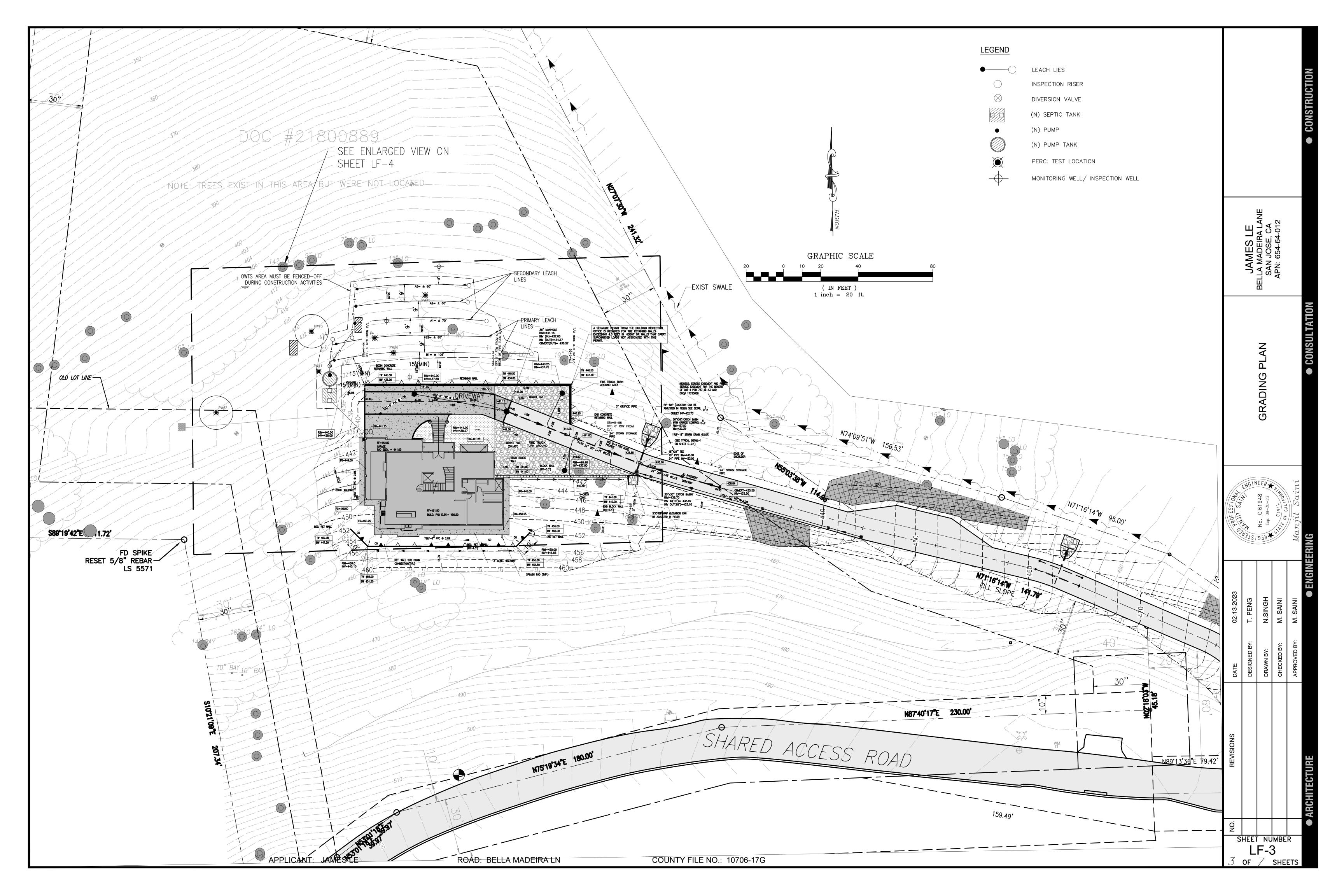
# SHALLOW PRESSURE DISTRIBUTION SYSTEM MANAGEMENT

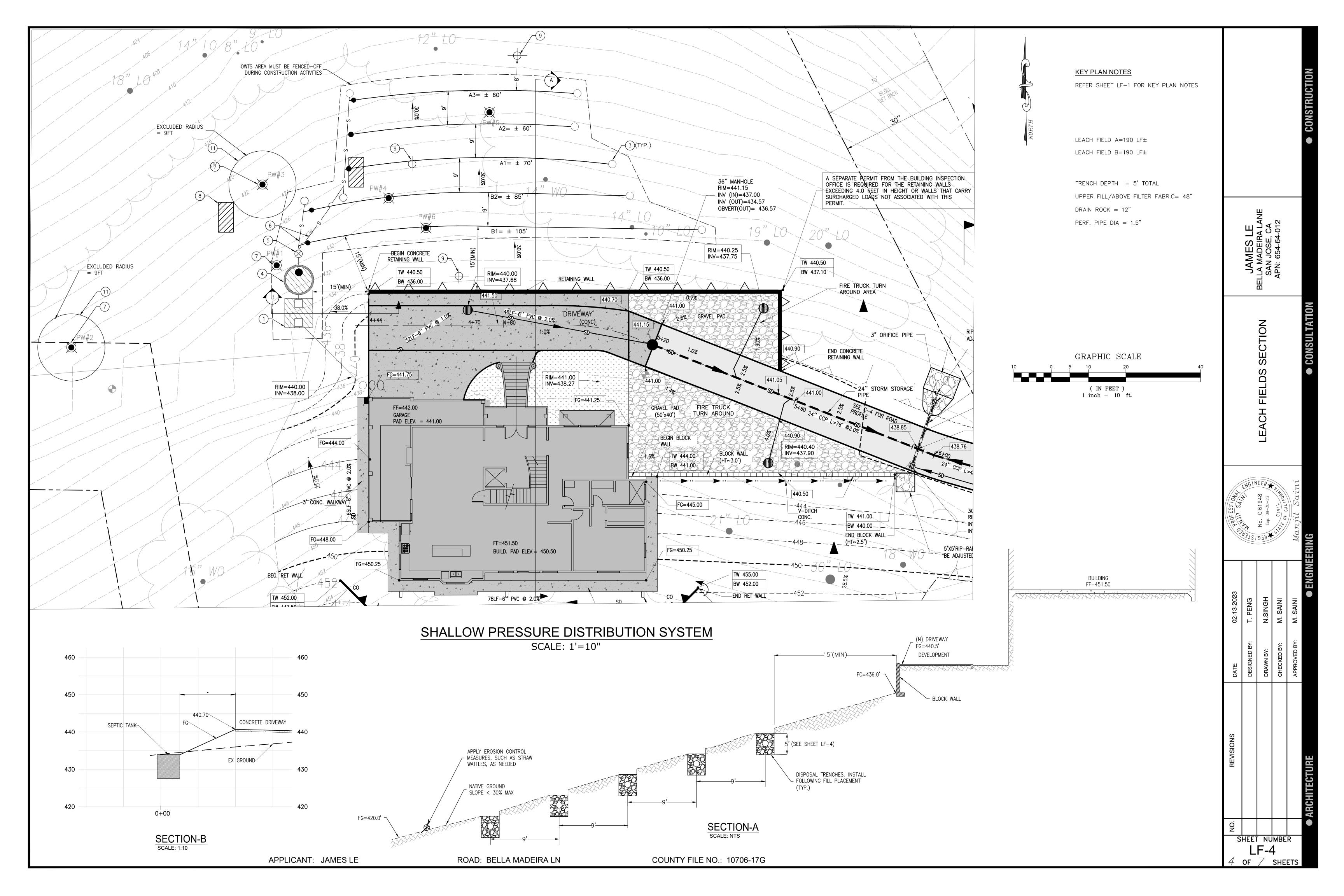
Work	Frequency
Conduct routine visual observations of disposal field and downslope area and surroundings for wet areas, pipe leaks or damage, soil erosion, drainage issues, abnormal vegetation, or other problems. Perform all inspections of pump and appurtenances (per O&M manual and Performance Evaluation Guidelines, Part 5 of this Manual).	• Every 6 to 12 months.
Purge laterals, squirt and balance. Exercise valves to ensure functionality. Perform all maintenance work as recommended by equipment manufacturer for any special valves or other components. nvestigate and repair erosion, drainage or other disposal field problems, as needed. nvestigate and perform distribution system corrective work, as required. Record work done.	<ul> <li>Distribution system maintenance annually.</li> <li>Other maintenance as required.</li> </ul>
Measure and record water levels in trench observation wells. Measure and record water levels in dispersal field monitoring wells, as applicable, per permit requirements. Obtain and analyze water samples from monitoring wells, as applicable, per permit requirements.	<ul> <li>Measure trench water levels annually.</li> <li>Other monitoring according to permit conditions, as applicable.</li> </ul>
Report findings to DEH per permit requirements. Standard report to include dates, observation well and monitoring well readings and other data collected, work performed, corrective actions taken, and performance summary. Report public health/water quality emergency to DEH immediately.	<ul> <li>According to permit conditions, typically every 1 to 2 years, depending on system size, usage, history, location.</li> </ul>

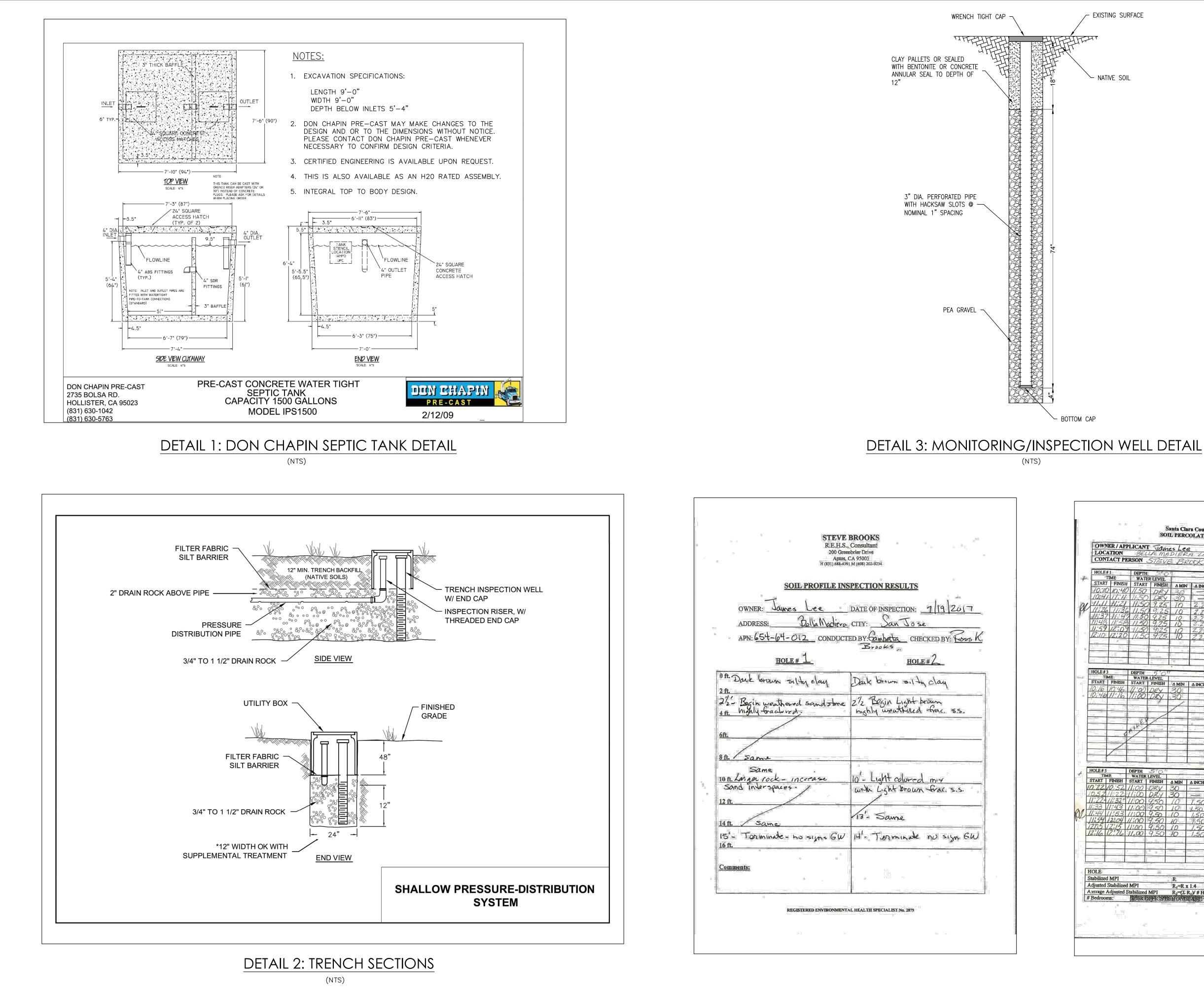
REFERENCE: ONSITE SYSTEM MANUAL. SANTA CLARA COUNTY, DEPARTMENT OF ENVIRONMENT

CONSTRUCTION	N	CONSULTATION	ENGINEERING	● ENGIN		<b>ARCHITECTURE</b>	
			Manjit Saini	M. SAINI	APPROVED BY:		
	APN: 654-64-012		OF CIVIL OR TO RANK	M. SAINI	CHECKED BY:		MBE 2 SHFI
	BELLA MADEIRA LANE SAN JOSE, CA	GENERAL AND	Ec No. C 61948 33 Exp. 09-30-23	N.SINGH	DRAWN BY:		<u>F-2</u>
	JAMES LE		ENGIN AN SISI	T. PENG	DESIGNED BY:		
			CO RUT SALA	02-13-2023	DATE:	REVISIONS	ON S

2 OF 7 SHEETS







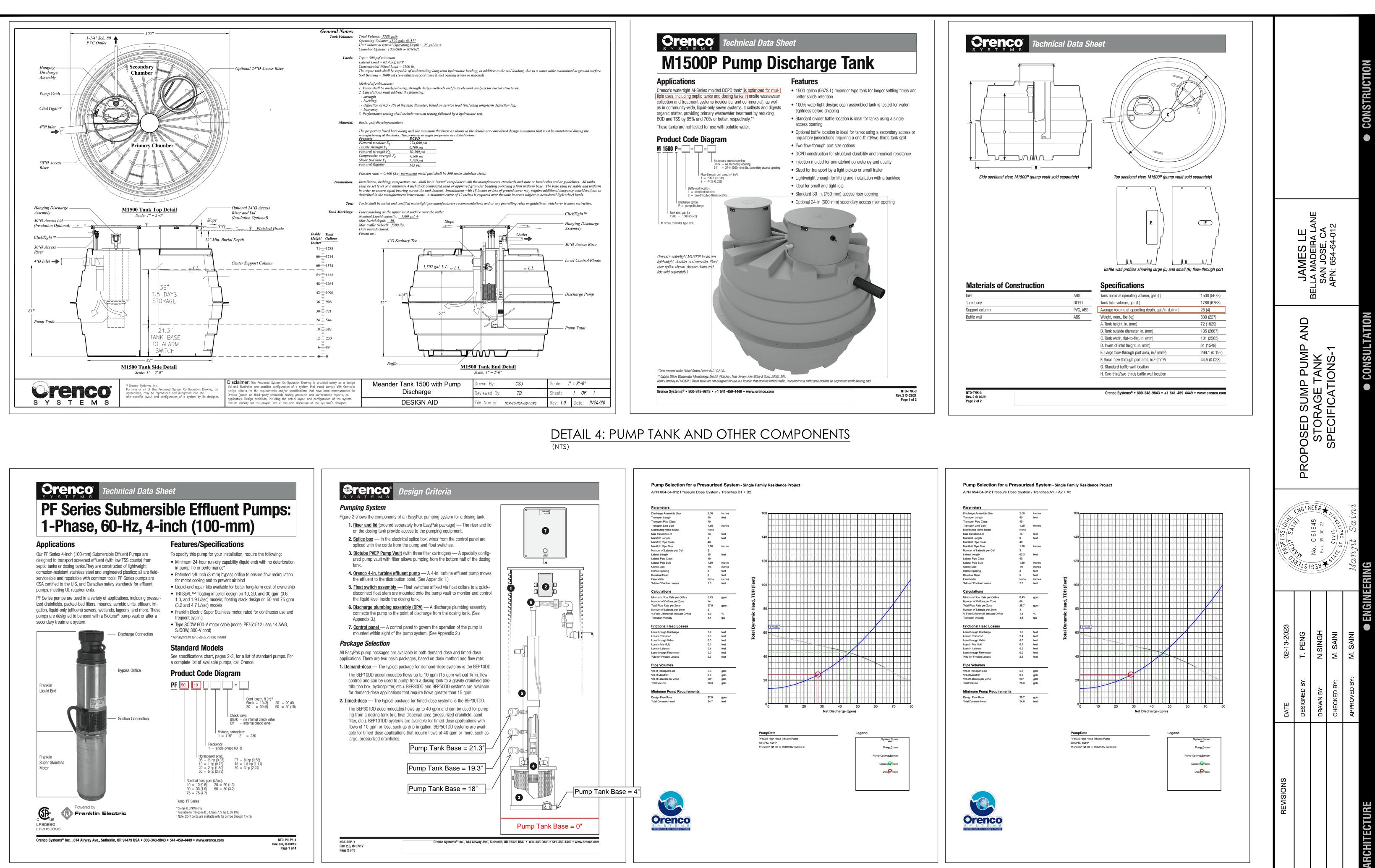
APPLICANT: JAMES LE

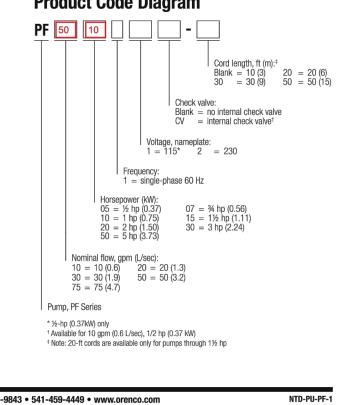
– EXISTING SURFACE

- NATIVE SOIL

DECLAR IN DIFFERENCE         REAL         REAL<	ALLON         DECLA ITADIEZA IN         REHS         ROS KAKINAMI           TACT PERSON         STAVE BROCKS         PHONE (108)         202 9234/         DATE 8-10-1           ALL         DEPTH         SOT         TIME         WATER LEVEL         TIME         WATER LEVEL           I         FINISH         AMIN         A INCH         MPI         START         FINISH         START         FINISH         AMIN         A INCH         MPI           I         FINISH         AMIN         A INCH         MPI         START         FINISH         START         FINISH         AMIN         A INCH         MPI           I         IIII         DEPTH         STORT         FINISH         START         FINISH         AMIN         A INCH         MPI           IIIIIIII         MAITER LEVEL         IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
DBPTH         SO (2)         HOLE 72         DATE (S-(2))           IMP         WATER LEVEL         INPUSH         START         PRISH         AMIN         APCH         MIN         APCH         MIN         APCH         MIN         APCH         MIN         APCH         MIN         APCH         MIN </th <th>#1         DEPTH         SO         HOLE #2         DEPTH         SO           TME         WATER LEVEL         TIME         WATER LEVEL         AMIN         A INCH         MPI         START         FINISH         AMIN         A INCH         MPI           2         ////////////////////////////////////</th>	#1         DEPTH         SO         HOLE #2         DEPTH         SO           TME         WATER LEVEL         TIME         WATER LEVEL         AMIN         A INCH         MPI         START         FINISH         AMIN         A INCH         MPI           2         ////////////////////////////////////
IDDE         WATER LEVEL         IDDE         IDDE         DET         50 CT           PINSH         JANN         ANN	TIME         WATER LEVEL         TIME         DEPTH         5 '0 ''           T         FINISH         START         FINISH         A MIN         A INCH         MPI         START         FINISH         A MIN         A INCH         MPI           2         0.'40         //.50         DEX         30
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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	$\frac{2}{2} \frac{11.36}{11.50} \frac{11.50}{9.25} \frac{9.25}{10} \frac{10}{2.25} \frac{14.4}{4.4} = \frac{10}{2.25} \frac{10}{4.4} = \frac{10}{2.25} \frac{10}{4.4} = \frac{10}{2.25} \frac{10}{4.4} = \frac{10}{2.25} \frac{10}{1.250} \frac{10}{9.25} \frac{10}{10} \frac{10}{2.25} \frac{14.4}{4.4} = \frac{10}{2.25} \frac{10}{1.4} = \frac{10}{2.4} = \frac{10}$
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Berrin         S. O."         HOLE & A         Derrin         S. O.	3         DEPTH         5         0"           ME         WATER-LEVEL         HOLE #4         DEPTH         5         0"           ME         WATER-LEVEL         TIME         WATER-LEVEL         TIME         WATER-LEVEL         MIN         Δ INCH         MPI           J0:46         J1:00         DEV         30         J0:49         J2:50         DEV         30         J1:16         J1:00         J2:75         3.66         J2:75<
ME         WATTER LEVEL         INDE #/4         DEPTH         5 0"           17:45.         17.0         20         3.00         100.17         PRISH         3.00         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.75         3.60         100.27.5         3.60         100.27.5         100.27.5 <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
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AE       WATER LEVEL       TOLE #0°       DEPTH       5.0         TINISH       START       FINISH       A MIN       A INCH       MPI       START       FINISH       START       FINISH       A MIN       A INCH       MPI $(0.25)$ $(1.00)$ $DRV$ $30$	
BE       WATER LEVEL       TOLE %°       DEPTH       SO         FINISH       START       FINISH       AMIN       A INCH       MPI       START       FINISH       START       FINISH       AMIN       A INCH       MPI $(0.25)$ $(1.00)$ $DRY$ $30$	
BE       WATER LEVEL       TOLE %       DePTH       5.0         FINISH       START       FINISH       A MIN       A INCH       MPI       START       FINISH       START       FINISH       A MIN       A INCH       MPI $(0.25)$ $(1.00)$ $DRV$ $30$	
PINSH       START       FINISH $\Delta$ MIN $\Delta$ INCH       MPI       START       FINISH       START       FINISH $\Delta$ MIN $\Delta$ INCH       MPI         (0:22       //:00 $DEY$ 30	AE WATER LEVEL
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1:43 11:00 0 50 10 125 10 11:20 10 1.00 1.00 1.00 1.00 1.00 1.00 1.00
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	11:23 11:00 9.50 10 1.50 61 11:46 11:56 14:00 9.625 10 4.375 2.2
$\frac{1}{1} = \frac{1}{2} = \frac{1}{3} = \frac{1}{4} = \frac{1}{5} = \frac{1}{5} = \frac{1}{2} = \frac{1}$	12:15 11:00 9:50 10 1.50 67 12:08 12:19 14.00 9.625 10 4.375 2.3
1     2     3     4     5     6       1     1     2     3     4     5     6       3     4     5     6     3     7       3     4     5     6     3     7       3     4     5     6     3     7       3     4     5     6     3     7       3     4     5     6     3     7       3     6     6     7     7     7       3     6     7     7     7     7       4     6     6     6     7     7       4     6     6     7     7     7	1.20 11.00 1.20 10 1.20 G, 1 12, 194 12; 29* 14,00 9,67.5 10 4.37.5 2,3 M
$\frac{1}{1} \frac{1}{2} \frac{3}{34} \frac{4}{56} \frac{5}{67} \frac{6}{32}$ $\frac{1}{3} \frac{1}{2} \frac{1}{2} \frac{1}{36} \frac{1}{67} \frac{1}{32} \frac{1}{2} 1$	
MPI         R $H/4$ 3         4         5         6           Stabilized MPI $R_1$ =R x 1.4         6.2         3.6         6.7         3.2           Stabilized MPI $R_2$ =( $\Sigma R_1$ )/ # Holes         6.3         5.0         9.4         4.5	
Stabilized MPI $R_1 = R \times 1.4$ $(0.2 - \sqrt{5.0})$ djusted Stabilized MPI $R_2 = (\Sigma R_1)/\#$ Holes	
Adjusted Stabilized MPI $R_2 = (\Sigma R_1)/\#$ Holes 6.3	A 1 2 4 40 - 0,7 - 3,4
	Adjusted Stabilized MPI $R_2 = (\Sigma R_1) / \#$ Holes 6.3

					CONSTRUCTION
	JAMES LE	BELLA MADEIRA LANE SAN JOSE, CA	APN: 654-64-012		
	U E A CH EIEL D DET AIL S AND	PERCOLATION TEST SUMMARY			CONSULTATION
CO NJIT SALA	ENGIN AN JUSI	EC No. C 61948 Exp. 09-30-23	STATE CIVILION IN	Manjit Saini	ENGINEERING
02-13-2023	T. PENG	N.SINGH	M. SAINI	M. SAINI	● ENGII
DATE:	DESIGNED BY:	DRAWN BY:	CHECKED BY:	APPROVED BY:	
REVISIONS					ARCHITECTURE
o N S	HEET	T NU	MBE	R	
5	L OF	<b>F-</b> { 7	D SHE	ETS	





Pump Tank Base
Pump Tank Base
Pump Tank Base

**DETAIL 5: PUMP PACKAGE AND OTHER COMPONENTS** 

(NTS)

SHEET NUMBER

LF-6

of 7 sheets

#### Design Criteria

#### Design Tools

The EasyPak Design Aid CD-ROM allows system designers and specifiers to select the correct system for the application. When information about the drainfield or sand filter is entered, a PumpSelect[™] program, which has been specially designed for EasyPak, calculates the pump flow rate and TDH required for the system. For help in calculations, see Appendix 3 in this document, "Headloss in Discharge Assemblies." Standard EasyPak[™] Packages

				-						-	
	 -				_	_	-	_	-		

Table 1. Standard	l EasyPak Packages				
Demand Dose			Timed Dose		
Model Code	Discharge	Maximum Flow Rate	Model Code	Discharge	Maximum Flow Rate
BEP10DD	Standard	15 GPM	BEP10TDD	Standard	15 GPM
BEP10DD-DB	Drainback	15 GPM	BEP10TDD-DB	Drainback	15 GPM
BEP10DD-CW	Cold Weather	15 GPM	BEP10TDD-CW	Cold Weather	15 GPM
BEP30DD	Standard	40 GPM	BEP30TDD	Standard	40 GPM
BEP30DD-DB	Drainback	40 GPM	BEP30TDD-DB	Drainback	40 GPM
BEP30DD-CW	Cold Weather	40 GPM	BEP30TDD-CW	Cold Weather	40 GPM
BEP50DD	Standard	65 GPM	BEP50TDD	Standard	65 GPM
BEP50DD-DB	Drainback	65 GPM	BEP50TDD-DB	Drainback	65 GPM
BEP50DD-CW	Cold Weather	65 GPM	BEP50TDD-CW	Cold Weather	65 GPM

#### Accessory Equipment

The following products may be required to complete the package:

Access Risers with Fiberglass Lids

Riser Tank Adapters with Bolt-Down Kit

Adhesives

 Anti-Siphon Valve Grommets

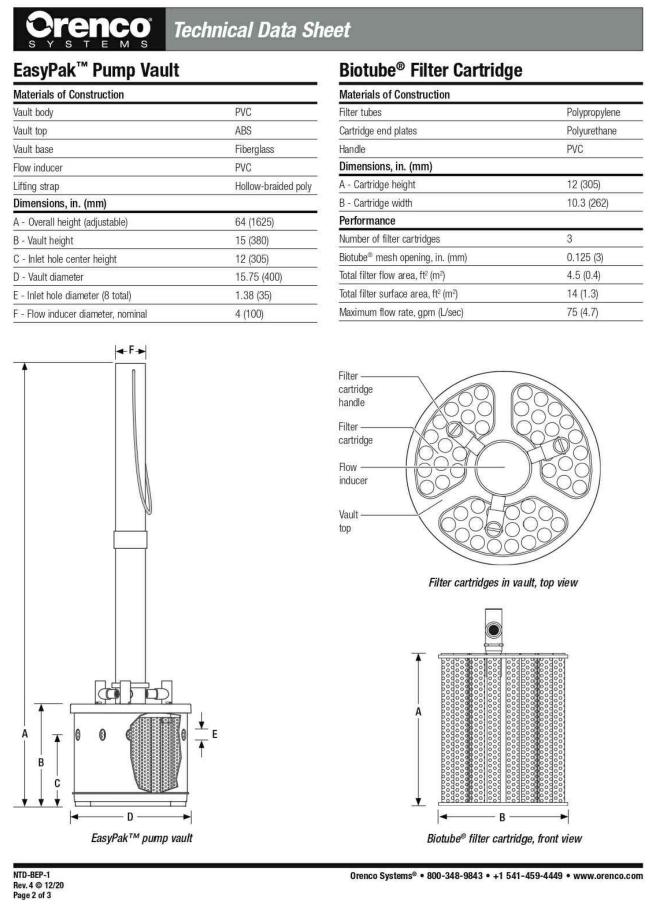
See Orenco's *General Onsite Products Catalog* to order these products.

Orenco Systems® Inc. , 814 Airway Ave., Sutherlin, OR 97479 USA • 800-348-9843 • 541-459-4449 • www.orenco.com



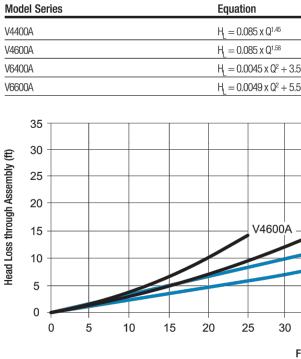
Applications	General	
Automatic Distributing Valve Assemblies are used to pressurize multiple zone distribution systems including textile filters, sand filters and drainfields. <i>Top View</i>	and sequentially redirect the pump tribution field. Valve actuation is acc and flow. They allow the use of sm filters and drainfields. For example,	ve Assemblies are mechanically operated 's flow to multiple zones or cells in a dis- complished by a combination of pressure aller horsepower pumps on large sand a large community drainfield requiring ix-line valve assembly to reduce the ' 50 gpm (3.14L/sec).
Coupling	tion with High-Head Effluent Pumps pressure and flow requirements, ar	stributing Valves when used in conjunc- s with Biotube® pump vaults to provide nd to prevent debris from fouling valve tion of clear pipe, and a union for each
Distributing valve	outlet are provided for a complete a monitor. Ideal valve location is at th	assembly that is easy to maintain and e high point in the system. Refer to
Union	Automatic Distributing Valve Assem	blies (NTP-VA-1) for more information.
	Standard Models	
Clear pipe	V4402A, V4403A, V4404A, V4605 V6605A, V6606A.	5A, V4606A, V6402A, V6403A, V6404A,
Ball valve	Product Code Diagr	am
Side View Elbows	AssemblyDischarge connections inst $02 = 2$ connections $03 = 3$ connections $04 = 4$ connections $05 = 5$ connections $06 = 6$ connectionsAvailable discharge connections $6 = 6$ available connectionsInlet/outlet size, in. (mm): $4 = 1.25$ (32) $6 = 1.50$ (40)	alled:
Bottom View	Distributing valve	
	Materials of Constru	uction
	All Fittings	Sch. 40 PVC per ASTM specification
	Unions	Sch. 80 PVC per ASTM specification
	Ball Valve	Sch. 40 PVC per ASTM specification
	Clear Pipe	Sch. 40 PVC per ASTM specification
Orenco Systems® Inc. , 814 Airway Ave., Sutherlin, OR 97479 USA • 800-348-9843	• 541-459-4449 • www.orenco.com	NTD-SF-VA-1 Rev. 2.0, © 03/17 Page 1 of 2

PVC
ABS
Fiberglass
PVC
Hollow-braided poly
64 (1625)
15 (380)
12 (305)
15.75 (400)
1.38 (35)



<b>Pr</b> ei	<b>NCO</b> ® <i>Techni</i>	aal Data Shaat	۶.		
<b>Technical Data Sheet</b>					
Specifica	tions				
Model	Inlet Size, in. (mm)	Outlets Size, in. (mm)	Flow Range, gpm (L/sec)	Max Head, ft (m)	Min. Enclosure*
V4402A	1.25 (32)	1.25 (32)	10 - 40 (0.63 - 2.52)	170 (51.816)	VB1217
V4403A	1.25 (32)	1.25 (32)	10 – 40 (0.63 – 2.52)	170 (51.816)	VB1217
V4404A	1.25 (32)	1.25 (32)	10 - 40 (0.63 - 2.52)	170 (51.816)	VB1217
V4605A	1.25 (32)	1.25 (32)	10 - 40 (0.63 - 2.52)	170 (51.816)	RR2418
V4606A	1.25 (32)	1.25 (32)	10 - 40 (0.63 - 2.52)	170 (51.816)	RR2418
V6402A	1.50 (38)	1.50 (38)	15 – 100 (0.95 – 6.31)	345 (105.16)	RR2418
V6403A	1.50 (38)	1.50 (38)	15 – 100 (0.95 – 6.31)	345 (105.16)	RR2418
V6404A	1.50 (38)	1.50 (38)	15 – 100 (0.95 – 6.31)	345 (105.16)	RR2418
V6605A	1.50 (38)	1.50 (38)	15 – 100 (0.95 – 6.31)	345 (105.16)	RR2418
V6606A	1.50 (38)	1.50 (38)	15 – 100 (0.95 – 6.31)	345 (105.16)	RR2418

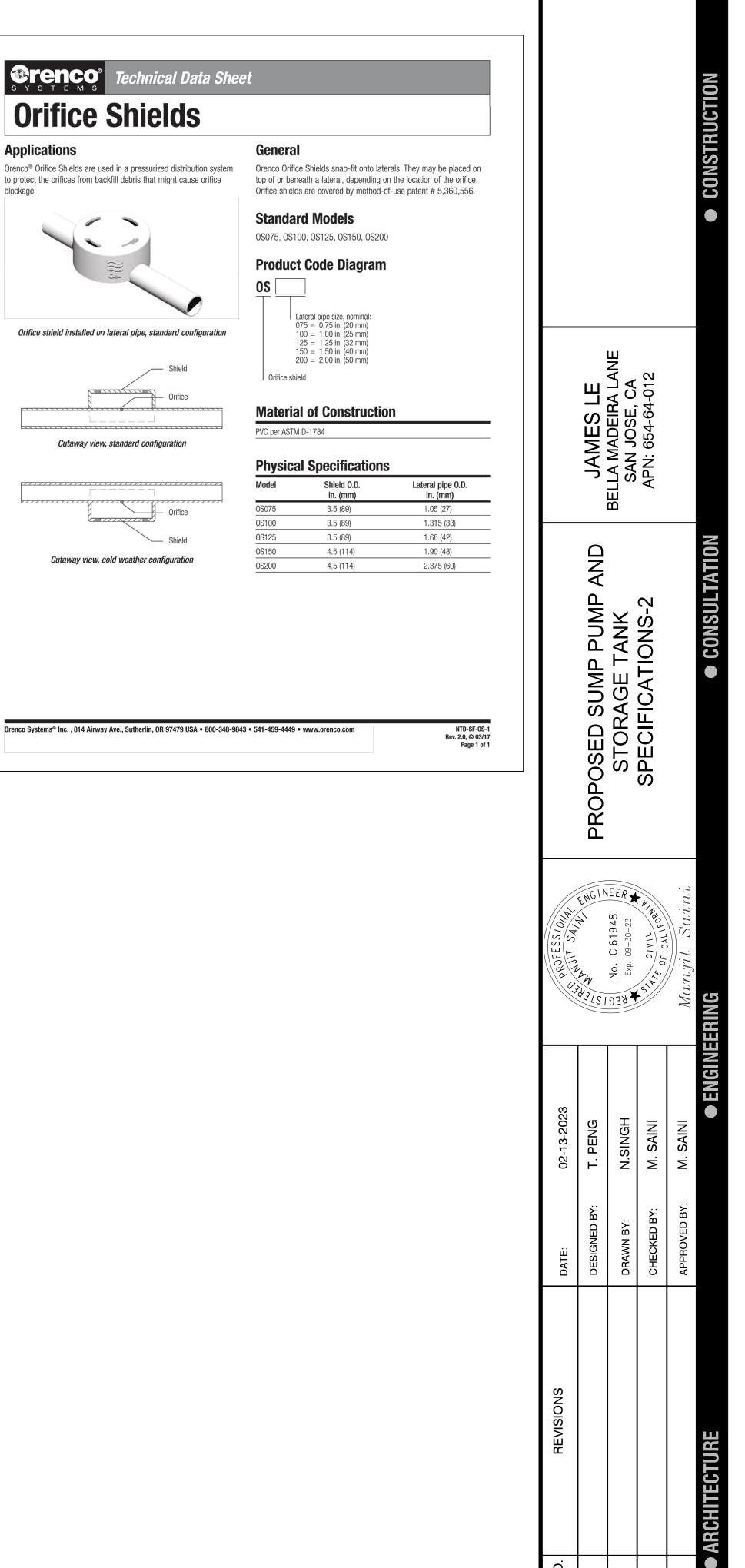
# Table 1. Automatic Distributing Valve Assembly Headloss Equations



NTD-SF-VA-1 Rev. 2.0, © 03/17 Page 2 of 2	Orenco Systems® Inc. , 814 Airway Ave., Sutherlin, OR 97479 USA • 800-348-9843 • 541-459-4449 • www.orenco.com



				0	perating	y Range, g	pm (L/sec)
				1	0 - 40 (0.6	63 – 2.52)	
				1	0 - 25 (0.6	63 – 1.57)	
3.5 x (1 - e ^{-0.060} )				1	5 - 70 (0.9	)5 – 4.42)	
5.5 x (1 - e ^{-0.10} )				1	5 - 70 (0.9	95 - 4.42)	
						V6600/	4
	V44	AOC				V6400/	4
		_					
35	40	45	50	55	60	65	70
Flow (gpm)							



SHEET NUMBER

LF-7

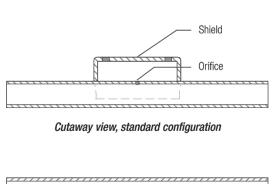
7 of 7 sheets

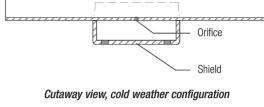
# Orenco® Orifice Shields are used in a pressurized distribution system to protect the orifices from backfill debris that might cause orifice blockage.

**Orifice Shields** 

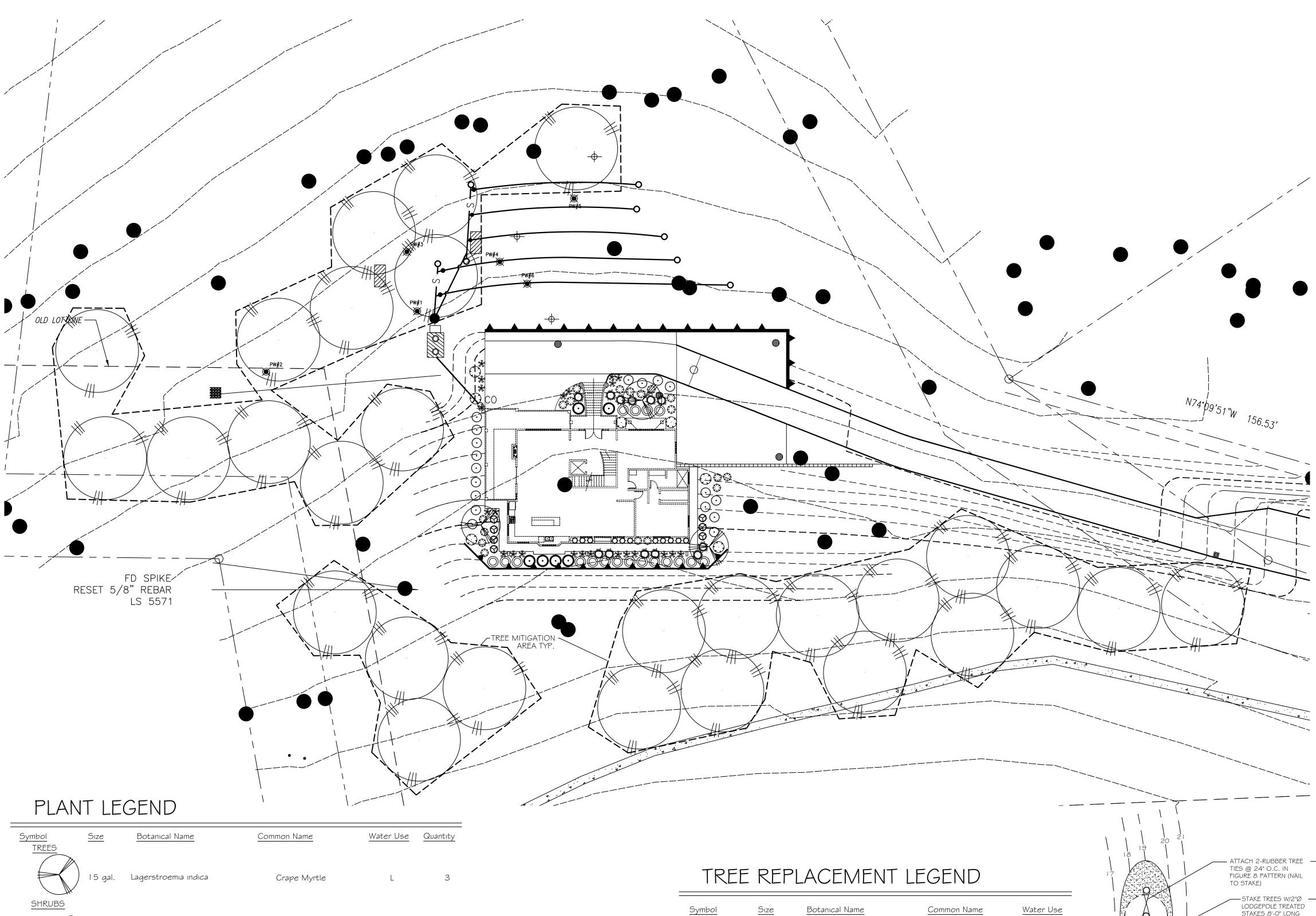
Applications

Orifice shield installed on lateral pipe, standard configuration





,		-
Model	Shield O.D. in. (mm)	Lateral pipe O.D. in. (mm)
OS075	3.5 (89)	1.05 (27)
0S100	3.5 (89)	1.315 (33)
0S125	3.5 (89)	1.66 (42)
OS150	4.5 (114)	1.90 (48)
0S200	4.5 (114)	2.375 (60)



SHRUBS					
	5 gal.	Rhaphiolepis i. 'Springtime'	India Hawthorn	L	18
$\odot$	5 gal.	Dodonaea v. 'Purpurea'	Purple Hopseed Bush	L	6
	5 gal.	Lavandula spp.	Lavender	L	16
$\left( \cdot \right)^{+}$	5 gal.	Phormium tenax	New Zealand Flax	L	7
, Â	5 gal.	Rhaphiolepis i. "Ballerina'	Dwarf India Hawthorne	L	
Junit -	5 gal.	Phormium t. 'Bronze Baby'	New Zealand Flax	L	12
	5 gal.	Pittosporum t. 'Wheelers Dwarf'	Dwarf Pittosporum	L	7
$\odot$	5 gal.	Baccharıs pılularıs	Dwarf Coyote Brush	L	18
ACCENT & G	ROUNDCO	VER			
$\ast$	l gal.	Dietes vegeta	Fortnight Lily	L	21

PLANTING NOTES

- I. ALL PLANTING SHALL BE COMPLETED IN ACCORDANCE WITH AND CONTRACTOR SHALL BE FAMILIAR WITH AND ADHERE TO SANTA CLARA STANDARD PLANS & SPECIFICATIONS. (COUNTY STANDARD PLANS SHALL SUPERCEDE NOTES IF A CONFLICT OF INFORMATION OCCURS.)
- 2. FINISH GRADE IN PLANTERS SHALL BE 1/2" INCHES BELOW THE TOP OF ADJACENT PAVING. GRADE ALL PLANTING AREAS SMOOTH AND EVEN. ENSURE THAT ALL PLANTING AREAS MAINTAIN POSITIVE DRAINAGE. 3. PLANTING AREAS SHALL BE KEPT CLEAN AND FREE FROM ALL CONCRETE, ASPHALTIC WASTE, LUMBER, AB BASE OR
- OTHER IMPURITIES, POLLUTION CAUSED BY GASOLINE, OIL OR OTHER SUCH MATERIALS SHALL BE REMOVED BY EXCAVATION OF THE SOIL AND REPLACED WITH CLEAN TOPSOIL AT THE CONTRACTOR'S EXPENSE.
- 4. IMPORTED TOPSOIL (MIN 8" LAYER) SHALL BE FERTILE, FRABLE NATIVE SOIL OF LOAMY CHARACTER HAVING NORMAL AMOUNT OF HUMUS. THE SOIL SHALL BE FREE OF SUBSOIL, REFUSE, ROOTS OVER 2" DIAMETER, NOXIOUS WEEDS AND BRUSH OR OTHER HARMFUL MATERIAL
- 5. SOIL AMENDMENT SHALL BE NITRIFIED FIR OR REDWOOD SOIL CONDITIONER, 4". APPLY THE SOIL AMENDMENT TO ALL PLANTED AREAS AT THE RATE OF 4 CU. YDS. PER 1000 SQ. FT. BROADCAST BEST 6-20-20 XB FERTILIZER AT 15 LBS. PER 1000 SQ.FT. THE SOIL IN ALL LANDSCAPED AREAS SHALL BE THOROUGHLY ROTOTILLED OR HAND CULTIVATED TO A MINIMUM DEPTH OF 6" TO ASSURE COMPLETE INCORPORATION OF THE SOILD AMENDMENTS. ANY HARD PANS ENCOUNTERED SHALL BE RIPPED TO ALLOW THOROUGH TILLING OF THE SOIL.
- 6. CONTRACTOR SHALL SUBMIT A SAMPLE OF THE SOIL AMENDMENT TO THE CITY LANDSCAPE INSPECTOR FOR APPROVAL PRIOR TO DELIVERY.



24" BOX Quercus agrifolia

Botanical Name

Coast Live Oak

TREE REPLACEMENT

(REFER TO SHEET C-11 TREE LOCATION PLAN, FOR TREES TO BE REMOVED) TREE # SPECIES QUANTITY/SIZE SPECIES

1775	QUERCUS AGRIFOLIA	4 -24" BOX.
1776	QUERCUS AGRIFOLIA	2 -24" BOX.
1777	QUERCUS AGRIFOLIA	4 -24" BOX.
1778	QUERCUS AGRIFOLIA	3 -24" BOX.
1779	QUERCUS AGRIFOLIA	4 -24" BOX.
1780	QUERCUS AGRIFOLIA	4 -24" BOX.
1821	QUERCUS AGRIFOLIA	2 -24" BOX.
1845	QUERCUS AGRIFOLIA	4 -24" BOX.
TOTAL		28 -24" BOX.

QUERCUS AGRIFOLIA QUERCUS AGRIFOLIA





PENNINO DESIGN GROUP 1949 W. KETTLEMAN LANE SUITE 200 LODI, CA 95242 (OFFICE) PO BOX 1566 MWELO CALCULATIONS LODI, CA 9524 I (MAILING) MAWA = (ETo)(.62)[(0.55x LA) + (0.3x SLA)]209.327.4261 vpennino@penninogroup.com Where: CRLA 4978 MAWA = Maximum Applied Water Allowance (gallons per year) ETo = Reference Evapotranspiration (inches per year) 0.55 = ET Adjustment Factor (per CA code, max 0.55 for residential)LA = Landscaped Area including Special Landscape Area (square feet) Z TIGATION TIGATION 0.62 = Conversion factor (to gallons per square foot)SLA = Portion of the landscaped area identified as Special Landscape Area (square feet) 0.3 = Additional ET adjustment factor for Special Landscape Area (1.0-0.7=0.3)ETo = 45.3 m/yrLA = 2,276 sq. ft.SLA = 0 sq. ft. $MAWA = (45.3)(0.62)[(0.55 \times 2,276) + (0.3 \times 0)]$ = (45.3)(0.62)[1,251.8 + 0] = 35,158 Maximum Applied Water Allowance = 35, 158 gallons per year The following is the projects total Estimated Total Water Use: ETWU = (ETo)(0.62) [((PFxHA)/IE) + SLA]Where: ETWU = Estimated Total Water Use per year (gallons) ETo = Reference Evapotranspiration (inches) PF = Plant Factor from WUCOLS HA = Hydrozone Area [high, medium, and low water use areas](square feet) ADIER  $\bigcirc$ SLA = Special Landscape Area (square feet) 0.62 = Conversion FactorШ IE = Irrigation Efficiency (minimum 0.71) $( \bigcap$ Ž 9 ETWU Drip = (45.3)(0.62)[(0.3x2,276)/.8)+0]= 23,971.4  $\overline{\phantom{a}}$ Estimated Total Water Use = 23,971.4 gallons per year  $\triangleleft$ S Ш MAWA > ETWU = 35,158 > 23,971.4 Drawn By: VP Date: 6.1.22 Scale: 1"=20' Job No. 119.16 Revisions: SET OUTSIDE ROOTBALL PARALLEL WITH GRADE ORIGINAL GRADE 2" SETTLED MULCH LAYER -- ROOT CROWN TO BE AT FINISH 5.3.22 GRADE OR 1-2" ABOVE GRADE CITY COMMENTS/CLARIFICATIONS TITT BACKFILL WITH NATIVE SOIL PROPOSED GRADE -----ROTOTILL SOIL TO MIN. 12" DEPTH ANDSC No. 4978 Valerie A. Pen D 2X WIDTH OF ROOT BALL Signatur October 31, 2023 Expiration Date 6.1.22

# TREE PLANTING ON SLOPE

# LANDSCAPE SUMMARY

LANDSCAPE PLANTING AREA: 1.884 SQ.FT. TREE REPLACEMENT AREA: 25,000 SQ.FT. (14 IRR. SF PER TREE) TOTAL IRRIGATED AREA: 1,884 + 392 = 2,276 SQ.FT. MAWA: 35,158 GALLONS PER YEAR ETWU: 23,971.4 GALLONS PER YEAR

* I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLANS.

DATE 6.1.22

Sheet Number:

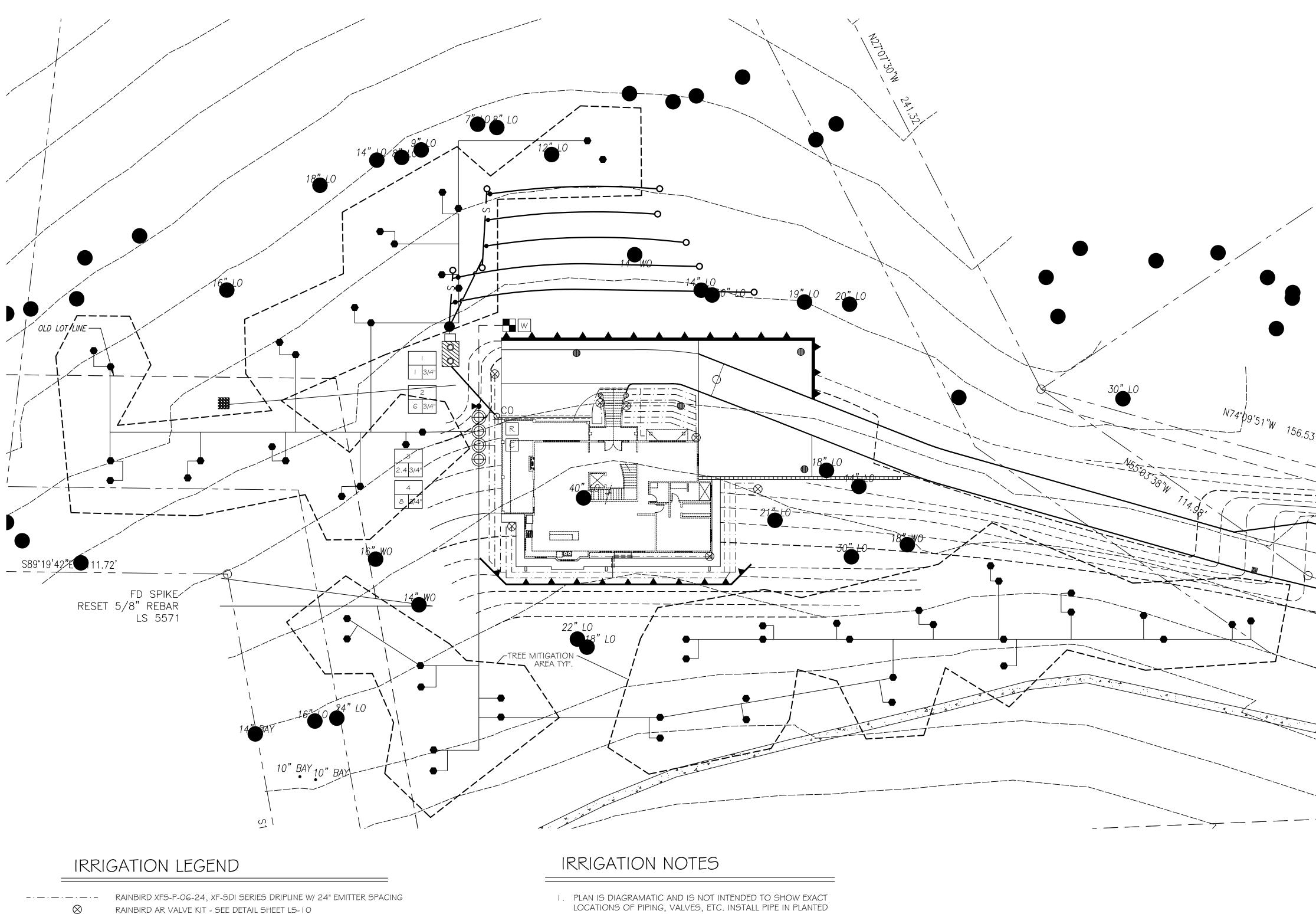
Date

This drawing is not final and shall not be used for construction work

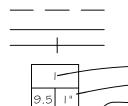
until it has been signed by the Landscape Architect

 $\Omega \mathbf{F}$ 





- RAINBIRD AR VALVE KIT SEE DETAIL SHEET LS-10
- RAINBIRD RWS-14001, ROOT WATERING SYSTEM WITH 0.25 GPM BUBBLER
- RAINBIRD XCZ-100-PRB-COM CONTROL ZONE KIT, SEE PLAN FOR SIZE.
- NIBCO T-113 GATE VALVE, LINE SIZE.
- RAINBIRD RSD-CEX RAIN SENSING DEVICE
- RAINBIRD ESP-LXBASIC, +ESPLXMSM8 MODULE; 20 STATION CONTROLLER, IN LXMMSSPED
- RAINBIRD 33DRC, QUICK COUPLER VALVE. CONTRACTOR TO PROVIDE 2 KEYS AND SWIVELS TO THE OWNERS REPRESENTATIVE.
- FEBCO 825Y-I", REDUCED PRESSURE BACKFLOW PREVENTION DEVICE WWEATHER BLANKET WATER METER 1", BY OTHERS.



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R

С

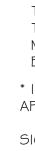
W

SCH. 40 PVC MAINLINE, I" CL 200 PVC LATERAL LINE, 3/4" (W/ 12" COVER ) CL 200 PVC LATERAL LINE, |" ( W/ | 2" COVER ) REMOTE CONTROL VALVE IDENTIFICATION NUMBER

- REMOTE CONTROL VALVE SIZE - REMOTE CONTROL VALVE GPM

- CONTRACTOR SHALL PERFORM PRESSURE TEST IN-FIELD PRIOR TO INSTALLING IRRIGATION SYSTEM, AND INFORM OWNER IF ADEQUATE PRESSURE IS NOT AVAILALBE, OR PRESSURE IS TOO HIGH. ANY CHANGES MUST BE PRE=APPROVED. 9. IRRIGATION SYSTEM SHALL BE INSTALLED PER LOCAL
- CODES AND ORDINANCES.

- LOCATIONS OF PIPING, VALVES, ETC. INSTALL PIPE IN PLANTED AREAS WHENEVER POSSIBLE.
- 2. CONTRACTOR SHALL COORDINATE/VERIFY WATER STUB IN FIELD. 3. ELECTRICAL SUBCONTRACTOR TO SHALL VERIFY EXISTING I I OV SERVICES AND SERVICE TO CONTROLLER LOCATION.
- 4. VALVES SHALL BE INSTALLED IN PLANTING AREA IN MARKED VALVE BOXES. LOCATION SHOWN ON PLAN IS FOR CLARITY ONLY.
- 5. ALL VALVES ARE TO BE CONNECTED TO WATER MAIN.
- 6. SLEEVES SHALL BE INSTALLED UNDER ALL PAVING SURFACES. ALL SLEEVING SHALL BE SCH. 40 PIPE AND SHOULD BE TWICE THE SIZE OF THE IRRIGATION LINE.
- 7. SEE IRRIGATION DETAILS FOR ADDITIONAL INFORMATION. 8. THE SYSTEM IS DESIGNED TO OPERATE AT (30) PSI.
- HIGHEST FLOW DURING IRRIGATION CYCLE IS (8 GPM).







 $\overline{\phantom{a}}$ SAN Ш

Drawn By: VP	
Date: 6.1.22	
Scale:  "=20'	
Job No. 119.16	
Revisions:	



This drawing is not final and shall not be used for construction work until it has been signed by the Landscape Architect

Sheet Number:

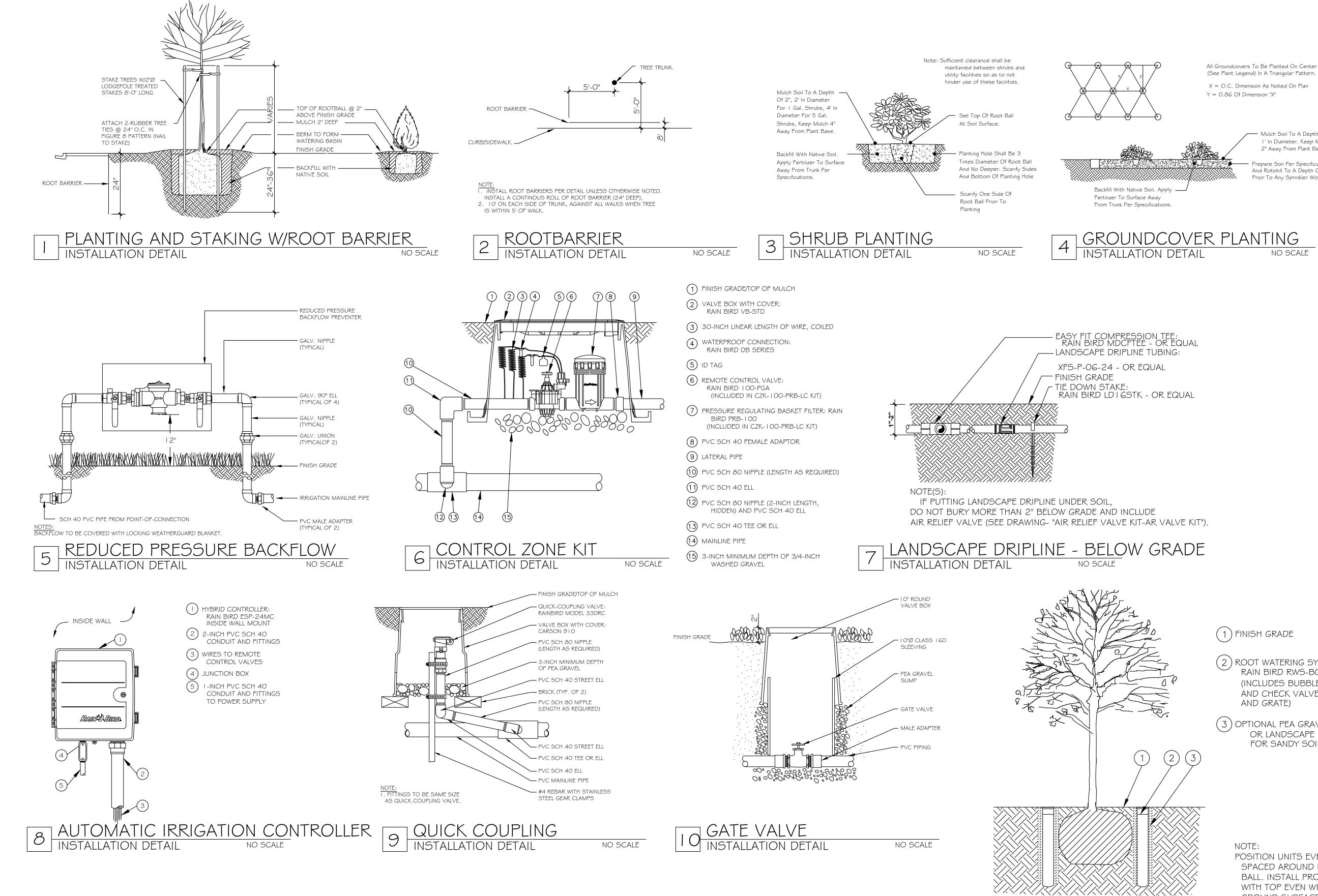
6 Of 3 Sheets

# LANDSCAPE SUMMARY

LANDSCAPE PLANTING AREA: 1.884 SQ.FT. TREE REPLACEMENT AREA: 25,000 SQ.FT. (14 IRR. SF PER TREE) TOTAL IRRIGATED AREA: I,884 + 392 = 2,276 SQ.FT. 35,158 GALLONS PER YEAR MAWA: ETWU: 23,971.4 GALLONS PER YEAR * I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLANS.

SIGNATURE Vali Parin

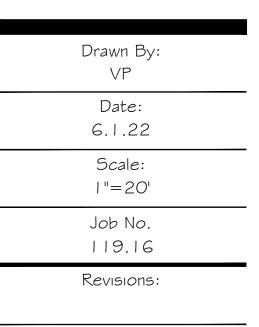
DATE 6.1.22





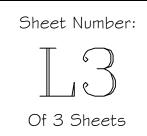


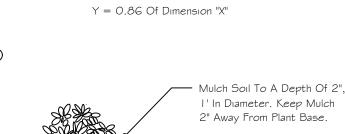
MADIER  $( \bigcap$ 9  $\triangleleft$  $\overline{Z}$ BELL  $\triangleleft$ S





This drawing is not final and shall not be used for construction work until it has been signed by the Landscape Architect





 Prepare Soil Per Specifications And Rototill To A Depth Of 6" Prior To Any Sprinkler Work.

GROUNDCOVER PLANTING NO SCALE

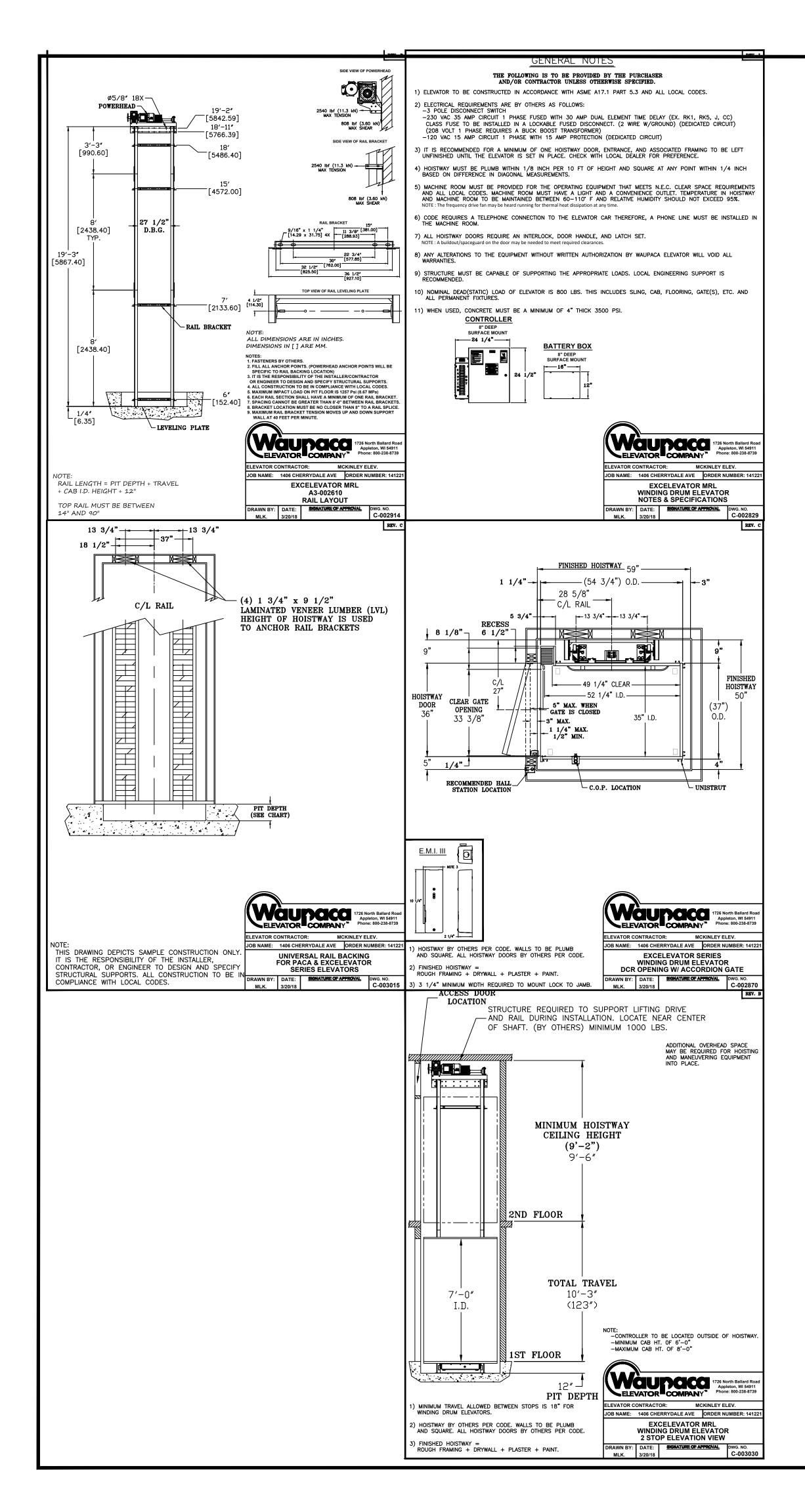
1) FINISH GRADE

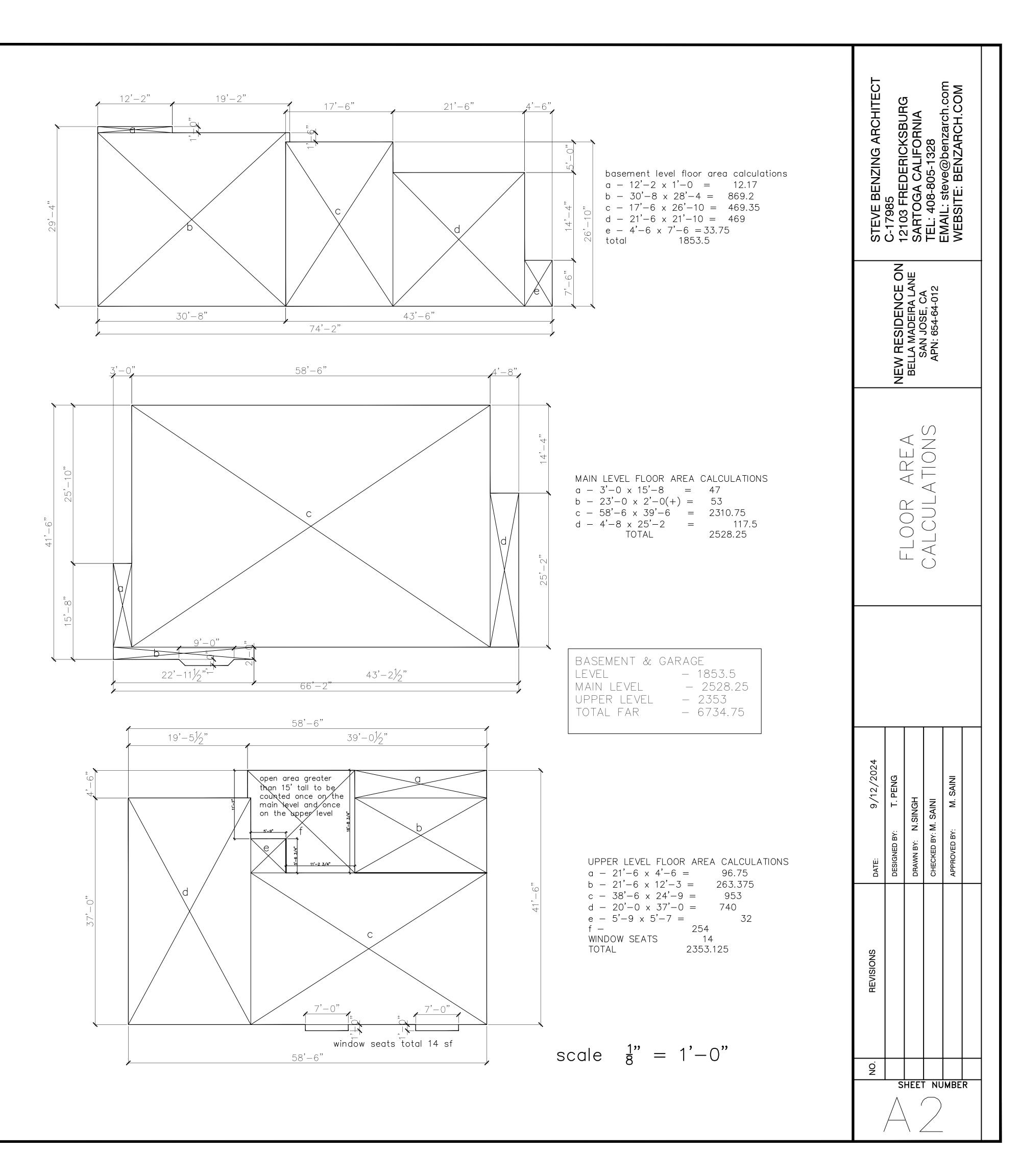
(2) ROOT WATERING SYSTEM: RAIN BIRD RWS-BCG (INCLUDES BUBBLER AND CHECK VALVE AND GRATE)

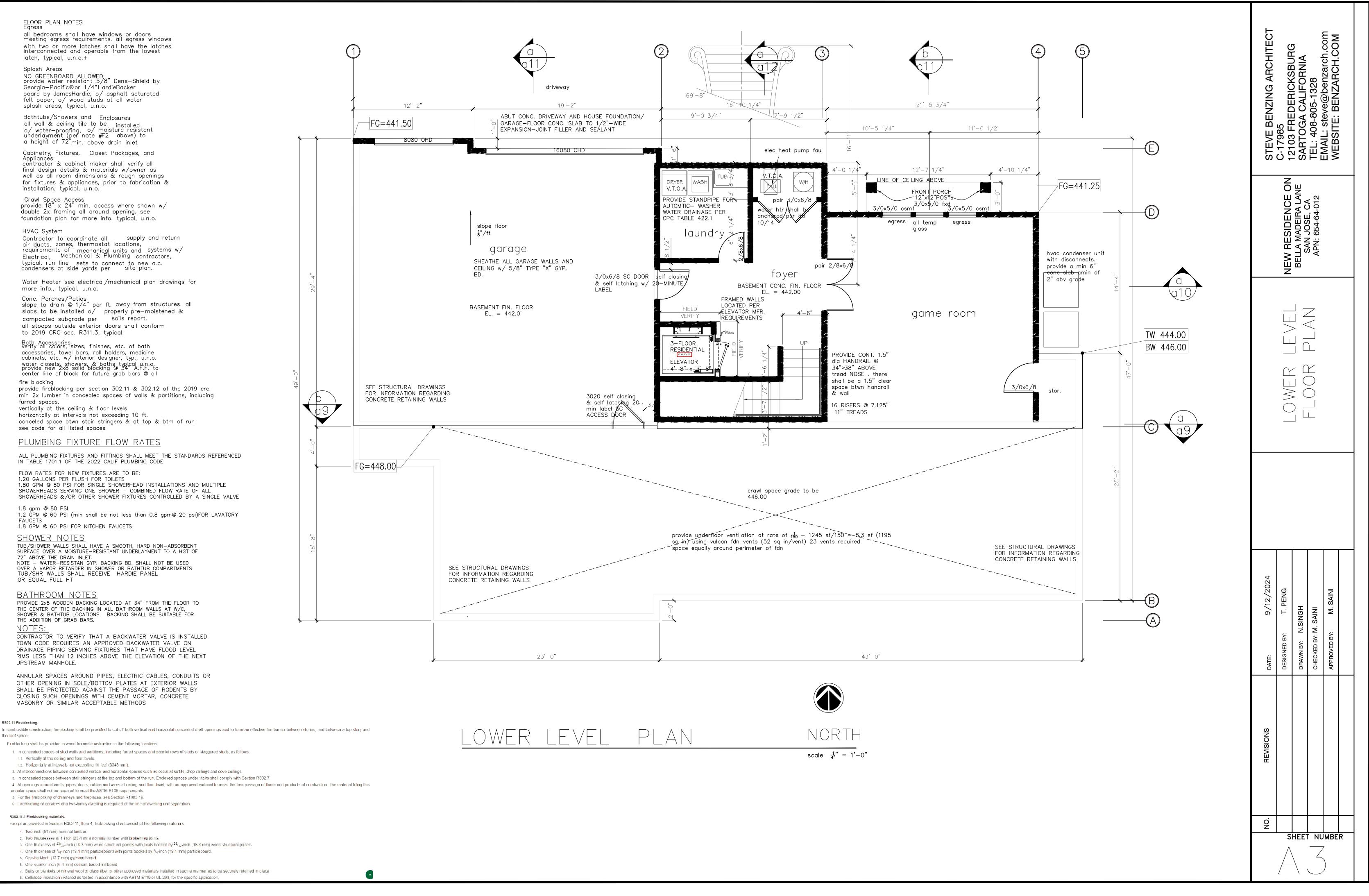
(3) OPTIONAL PEA GRAVEL OR LANDSCAPE FABRIC FOR SANDY SOILS

> NOTE: POSITION UNITS EVENLY SPACED AROUND ROOT BALL. INSTALL PRODUCT WITH TOP EVEN WITH GROUND SURFACE.

ROOT WATERING SYSTEM INSTALLATION DETAIL NO SCALE







#### deck waterproofing shall be: Paraseal® LG HDPE/Bentonite Sheet Membrane Dual Waterproofing FLOOR PLAN NOTES Egress all bedrooms shall have windows or doors meeting egress requirements. all egress windows with two or more latches shall have the latches interconnected and operable from the lowest latch, typical, u.n.o.+ Splash Areas NO GREENBOARD ALLOWED provide water resistant 5/8" Dens-Shield by Georgia-Pacific®or 1/4"HardieBacker board by JamesHardie, o/ asphalt saturated felt paper, o/ wood studs at all water splash areas, typical, u.n.o. Bathtubs/Showers and Enclosures 12'-2" all wall & ceiling tile to be installed o/ water-proofing, o/ moisture resistant underlayment (per note #F2 above) to a height of 72"min. above drain inlet 42" GUARDRAIL Cabinetry, Fixtures, Closet Packages, and BALUSTERS SPACED SO — A 4" DIA. SPHERE Appliances contractor & cabinet maker shall verify all CANNOT PASS THRU final design details & materials w/owner as well as all room dimensions & rough openings for fixtures & appliances, prior to fabrication & installation, typical, u.n.o. deck Crawl Space Access provide 18" x 24" min. access where shown w/ double 2x framing all around opening. see Line of balcony above foundation plan for more info. typical, u.n.o. -0"III Attic Access 22"x30" min. size per provide access opening larege enough for removla of hvac unit where occurs. provide 30"x43" pull down attice access stair at location indicated w/ min 30" clear headroom in the attic space at or above the access opening. providce dbl 2x framin all around opg. w/ plywd path & platform to hvac unit, work light w/ switch * receptavle per sec 904.11, 2016 cmc HVAC System Contractor to coordinate all supply and return air ducts, zones, thermostat locations, and power requirements of mechanical units and systems w/ Electrical, Mechanical & Plumbing contractors, ÷typical. run line sets to connect to new a.c. condensers at side yards per site plan. Water Heater see electrical/mechanical plan drawings for <mark>└|| deck</mark> more info., typical, u.n.o. 1 11 Conc. Porches/Patios slope to drain @ 1/4" per ft. away from structures. all provide cont vulcan soffit vent slabs to be installed o/ properly pre-moistened & full length of deck compacted subgrade per soils report. above. all stoops outside exterior doors shall conform to 2019 CRC sec. R311.3, typical. , ⊕^{E.D.} Bath Accessories verify all colors, sizes, finishes, etc. of bath accessories, towel bars, roll holders, medicine cabinets, etc. w/ interior designer, typ., u.n.o. provide new 2x8 solid blocking @ 34" A.F.F. to water closets, showers, & baths typical u.n.o. center line of block for future grab bars @ all ð PLUMBING FIXTURE FLOW RATES 1'-0" ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED 8'-2" IN TABLE 1701.1 OF THE 2022 CALIF PLUMBING CODE FLOW RATES FOR NEW FIXTURES ARE TO BE: 1.20 GALLONS PER FLUSH FOR TOILETS 1.80 GPM @ 80 PSI FOR SINGLE SHOWERHEAD INSTALLATIONS AND MULTIPLE SHOWERHEADS SERVING ONE SHOWER - COMBINED FLOW RATE OF ALL SHOWERHEADS &/OR OTHER SHOWER FIXTURES CONTROLLED BY A SINGLE VALVE 1.8 gpm @ 80 PSI 1.2 GPM @ 60 PSI (min shall be not less than 0.8 gpm@ 20 psi)FOR LAVATORY FAUCETS 1.8 GPM @ 60 PSI FOR KITCHEN FAUCETS SHOWER NOTES

FG=450.25

TUB/SHOWER WALLS SHALL HAVE A SMOOTH, HARD NON-ABSORBENT SURFACE OVER A MOISTURE-RESISTANT UNDERLAYMENT TO A HGT OF 72" ABOVE THE DRAIN INLET. NOTE - WATER-RESISTAN GYP. BACKING BD. SHALL NOT BE USED OVER A VAPOR RETARDER IN SHOWER OR BATHTUB COMPARTMENTS TUB/SHR WALLS SHALL RECEIVE HARDIE PANEL OR EQUAL FULL HT

### BATHROOM NOTES

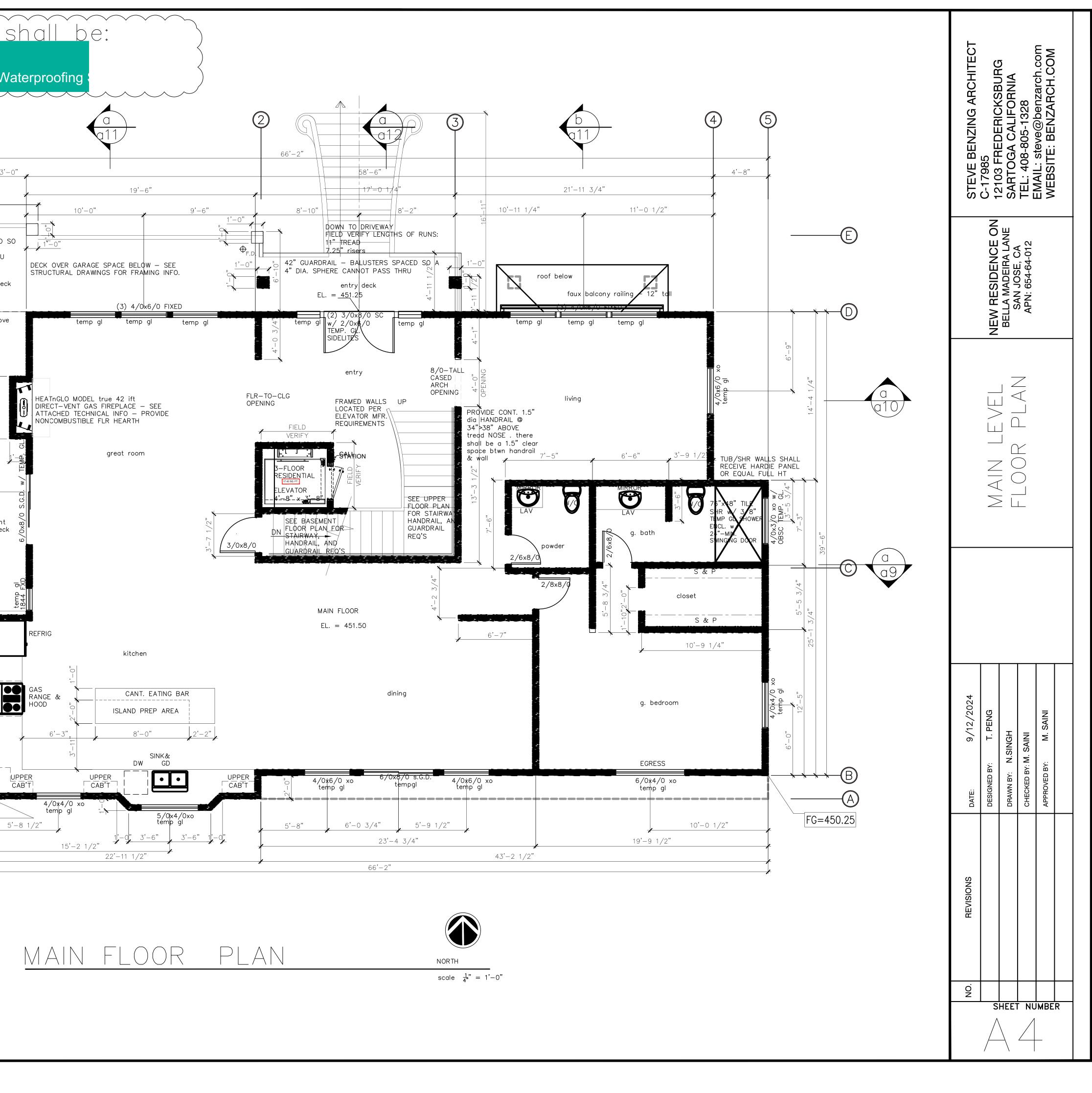
PROVIDE 2x8 WOODEN BACKING LOCATED AT 34" FROM THE FLOOR TO THE CENTER OF THE BACKING IN ALL BATHROOM WALLS AT W/C, SHOWER & BATHTUB LOCATIONS. BACKING SHALL BE SUITABLE FOR THE ADDITION OF GRAB BARS. MIN. 15" CLR. EA. SIDE OF W/C C/L AND MIN. 24" CLR. IN FRONT OF W/C

## DISHWASHER NOTE:

UPSTREAM MANHOLE.

NO DOMESTIC DISHWASHING MACHINE SHALL BE DIRECTLY CONNECTED TO A DRAINAGE SYSTEM OR FOOD-WASTE DISPOSER WITHOUT THE USE OF AN APPROVED DISHWASHER-AIR-GAP FITTING ON THE DISCHARGE SIDE OF THE DISHWASHING MACHINE. LISTED AIRGAPS SHALL BE INSTALLED WITH THE FLOOD LEVEL MARKING AT OR ABOVE NHA THE QOD LEVEL OF THE SINK OR DRAINBOARD, WHICHEVER CONTRACTOR TO VERIFY THAT A BACKWATER VALVE IS INSTALLED. TOWN CODE REQUIRES AN APPROVED BACKWATER VALVE ON DRAINAGE PIPING SERVING FIXTURES THAT HAVE FLOOD LEVEL RIMS LESS THAN 12 INCHES ABOVE THE ELEVATION OF THE NEXT

ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENING IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR ACCEPTABLE METHODS



### FLOOR PLAN NOTES

ALL BEDROOMS SHALL HAVE WINDOWS OR DOORS MEETING EGRESS REQUIREMENTS. ALL EGRESS WINDOWS WITH TWO OR MORE LATCHES SHALL HAVE THE LATCHES INTERCONNECTED AND OPERABLE FROM THE LOWEST LATCH, TYPICAL, U.N.O.+ SPLASH AREAS NO GREENBOARD ALLOWED PROVIDE WATER RESISTANT 5/8" DENS-SHIELD BY GEORGIA-PACIFIC®OR 1/4"HARDIEBACKER BOARD BY JAMESHARDIÉ, O/ ASPHALT SATURATED FELT PAPER, O/ WOOD STUDS AT ALL WATER SPLASH AREAS, TYPICAL, U.N.O. BATHTUBS/SHOWERS ANDENCLOSURES ALL WALL & CEILING TILE TO BUESTALLED O/ WATER-PROOFINGO/ MOISTURE RESISTANT UNDERLAYMENT (PER NOTE #F2ABOVE) TO A HEIGHT OF 721/IN. ABOVE DRAIN INLET CABINETRY, FIXTURES, CLOSET PACKAGES, AND APPLIANCES CONTRACTOR & CABINET MAKER SHALL VERIFY ALL FINAL DESIGN DETAILS & MATERIALS W/OWNER AS WELL AS ALL ROOM DIMENSIONS & ROUGH OPENINGS FOR FIXTURES & APPLIANCES, PRIOR TO FABRICATION & INSTALLATION, TYPICAL, U.N.O. CRAWL SPACE ACCESS PROVIDE 18" X 24" MIN. ACCESS WHERE SHOWN W/ DOUBLE 2X FRAMING ALL AROUND OPENING. SEE FOUNDATION PLAN FOR MORE INFO. TYPICAL, U.N.O. ATTIC ACCESS 22"X30" MIN. SIZE PER PROVIDE ACCESS OPENING LAREGE ENOUGH FOR REMOVLA OF HVAC UNIT WHERE OCCURS. PROVIDE 30"X43" PULL DOWN ATTICE ACCESS STAIR AT LOCATION INDICATED W/ MIN 30" CLEAR

HEADROOM IN THE ATTIC SPACE AT OR ABOVE THE ACCESS OPENING. PROVIDCE DBL 2X FRAMIN ALL AROUND OPG. W/ PLYWD PATH & PLATFORM TO HVAC UNIT, WORK LIGHT W/ SWITCH * RECEPTAVLE PER SEC 904.11,

2016 CMC

HVAC SYSTEM CONTRACTOR TO COORDINATE ALL SUPPLY AND RETURN AIR DUCTS, ZONES, THERMOSTAT LOCATIONSAND POWER REQUIREMENTS OFMECHANICAL UNITS AND SYSTEMS W/ ELECTRICAL, MECHANICAL & PLUMBINCCONTRACTORS, TYPICAL. RUN LINESETS TO CONNECT TO NEW A.C. CONDENSERS AT SIDE YARDS PERSITE PLAN.

WATER HEATER SEE ELECTRICAL/MECHANICAL PLAN DRAWINGS FOR MORE INFO., TYPICAL, U.N.O.

CONC. PORCHES/PATIOS SLOPE TO DRAIN @ 1/4" PER FAWAY FROM STRUCTURES. ALL SLABS TO BE INSTALLED OPROPERLY PRE-MOISTENED & COMPACTED SUBGRADE PER SOILS REPORT. ALL STOOPS OUTSIDE EXTERIOR DOORS SHALL CONFORM TO 2019 CRC SEC. R311.3, TYPICAL.

BATH ACCESSORIES VERIFY ALL COLORS, SIZES, FINISHES, ETC. OF BATH ACCESSORIES, TOWEL BARS, ROLL HOLDERS, MEDICINE CABINETS, ETC. W/ INTERIOR DESIGNER, TYP., U.N.O. PROVIDE NEW 2X8 SOLID BLOCKING @ 34" A.F.F. TO WATER CLOSETS, SHOWERS, & BATHS TYPICAL U.N.O. CENTER LINE OF BLOCK FOR FUTURE GRAB BARS @ ALL

# PLUMBING FIXTURE FLOW RATES

ALL PLUMBING FIXTURES AND FITTINGS SHALL MEET THE STANDARDS REFERENCED IN TABLE 1701.1 OF THE 2022 CALIF PLUMBING CODE

FLOW RATES FOR NEW FIXTURES ARE TO BE: 1.20 GALLONS PER FLUSH FOR TOILETS 1.80 GPM @ 80 PSI FOR SINGLE SHOWERHEAD INSTALLATIONS AND MULTIPLE SHOWERHEADS SERVING ONE SHOWER - COMBINED FLOW RATE OF ALL SHOWERHEADS &/OR OTHER SHOWER FIXTURES CONTROLLED BY A SINGLE VALVE 1.8 GPM @ 80 PSI

1.2 GPM @ 60 PSI (MIN SHALL BE NOT LESS THAN 0.8 GPM@ 20 PSI)FOR LAVATORY FAUCETS

1.8 GPM @ 60 PSI FOR KITCHEN FAUCETS

# SHOWER NOTES

TUB/SHOWER WALLS SHALL HAVE A SMOOTH, HARD NON-ABSORBENT SURFACE OVER A MOISTURE-RESISTANT UNDERLAYMENT TO A HGT OF 72" ABOVE THE DRAIN INLET. NOTE - WATER-RESISTAN GYP. BACKING BD. SHALL NOT BE USED OVER A VAPOR RETARDER IN SHOWER OR BATHTUB COMPARTMENTS TUB/SHR WALLS SHALL RECEIVE HARDIE PANEL OR EQUAL FULL HT

### BATHROOM NOTES

PROVIDE 2X8 WOODEN BACKING LOCATED AT 34" FROM THE FLOOR TO THE CENTER OF THE BACKING IN ALL BATHROOM WALLS AT W/C, SHOWER & BATHTUB LOCATIONS. BACKING SHALL BE SUITABLE FOR THE ADDITION OF GRAB BARS. MIN. 15" CLR. EA. SIDE OF W/C C/L AND MIN. 24" CLR. IN FRONT OF W/C

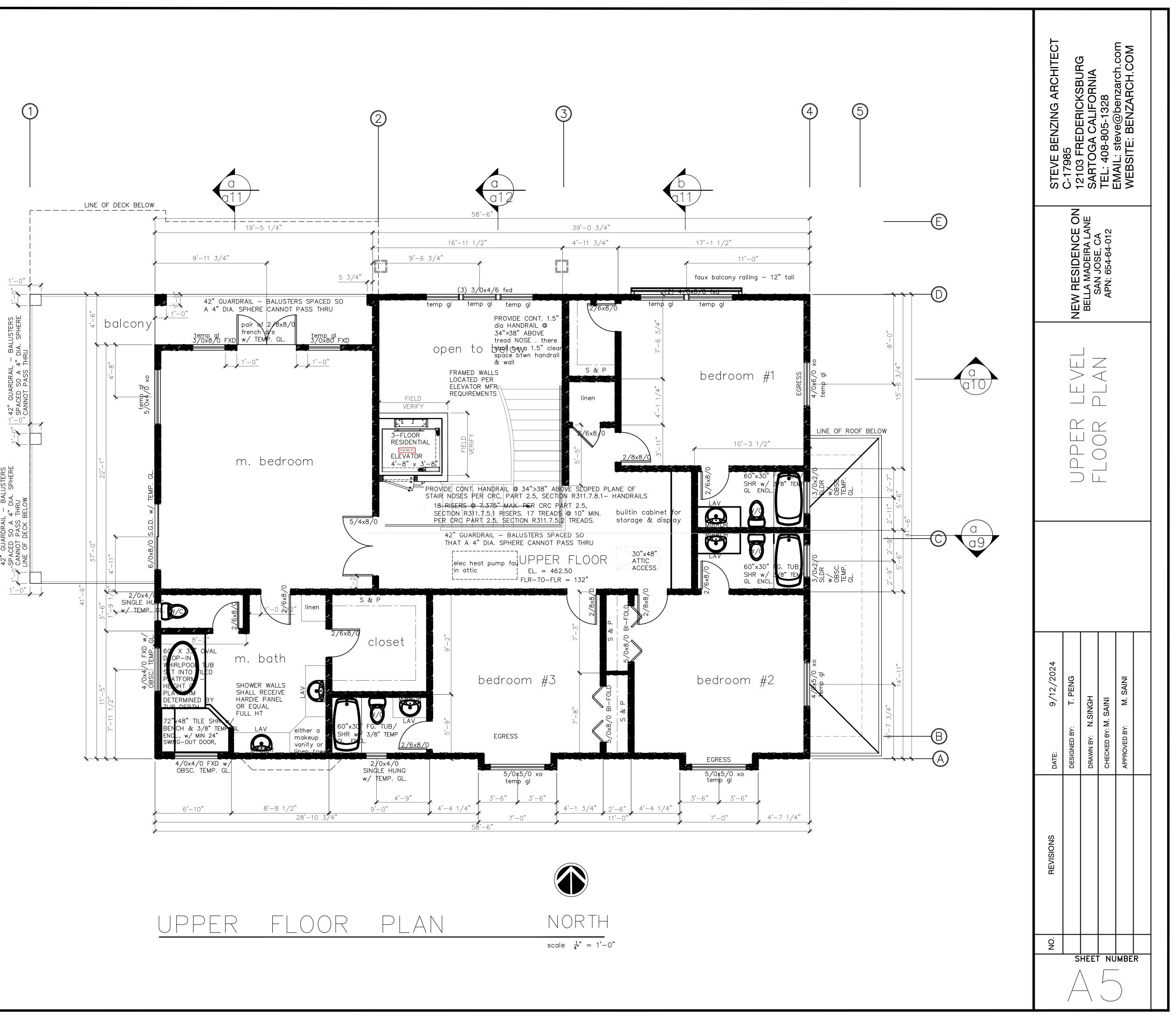
### DISHWASHER NOTE:

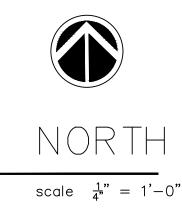
NO DOMESTIC DISHWASHING MACHINE SHALL BE DIRECTLY CONNECTED TO A DRAINAGE SYSTEM OR FOOD-WASTE DISPOSER WITHOUT THE USE OF AN APPROVED DISHWASHER-AIR-GAP FITTING ON THE DISCHARGE SIDE OF THE DISHWASHING MACHINE. LISTED AIRGAPS SHALL BE INSTALLED WITH THE FLOOD LEVEL MARKING AT OR ABOVE THE FLOOD LEVEL OF THE SINK OR DRAINBOARD, WHICHEVER IS HIGHER.

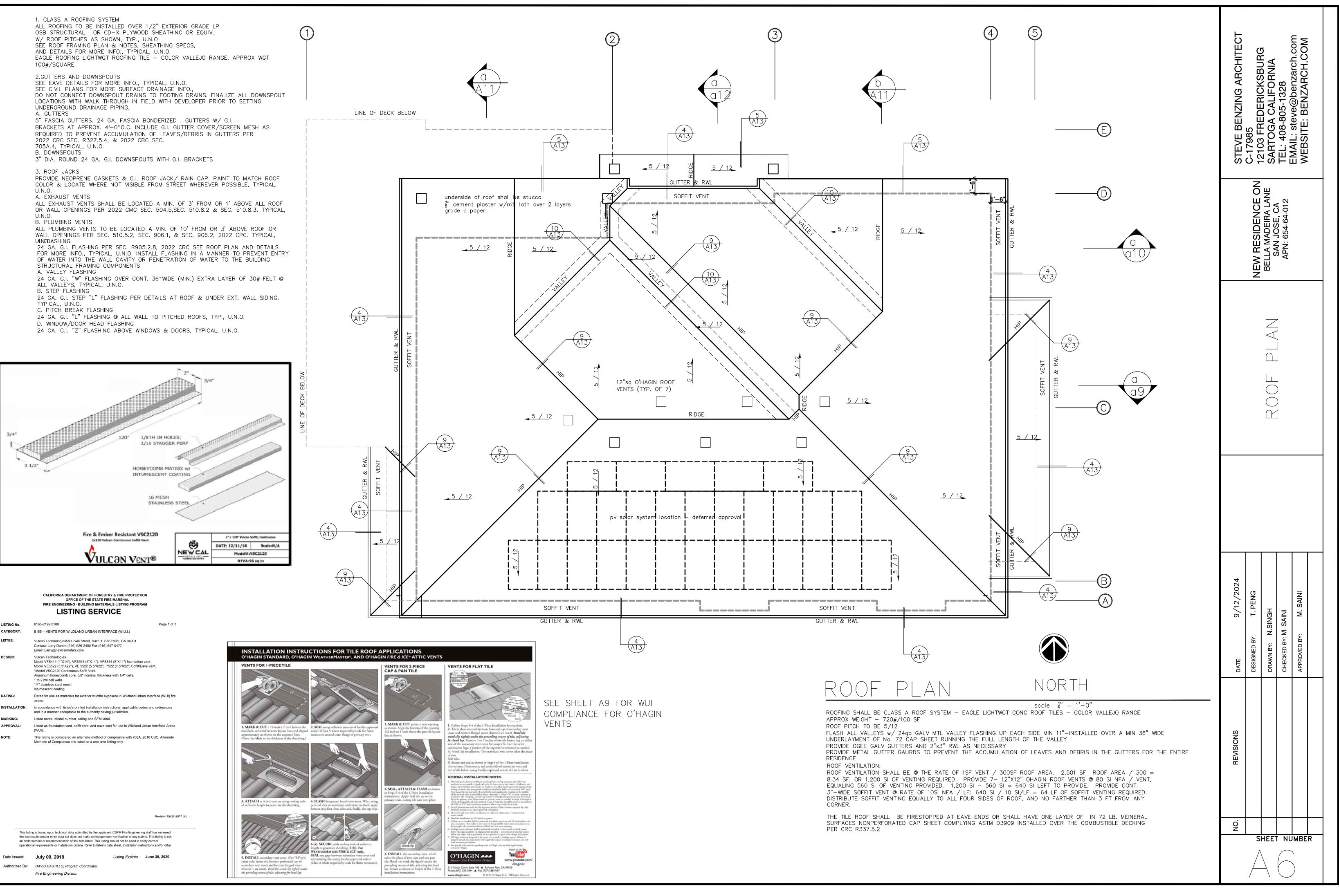
# NOTES:

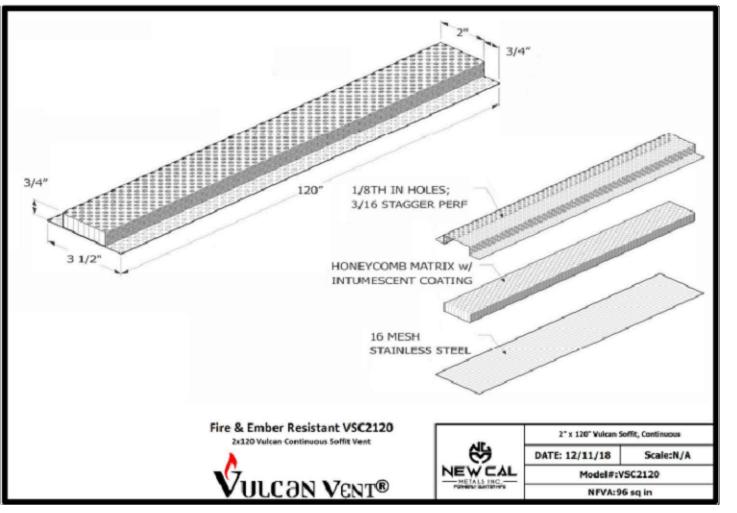
CONTRACTOR TO VERIFY THAT A BACKWATER VALVE IS INSTALLED. TOWN CODE REQUIRES AN APPROVED BACKWATER VALVE ON DRAINAGE PIPING SERVING FIXTURES THAT HAVE FLOOD LEVEL RIMS LESS THAN 12 INCHES ABOVE THE ELEVATION OF THE NEXT UPSTREAM MANHOLE.

ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENING IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR SIMILAR ACCEPTABLE METHODS

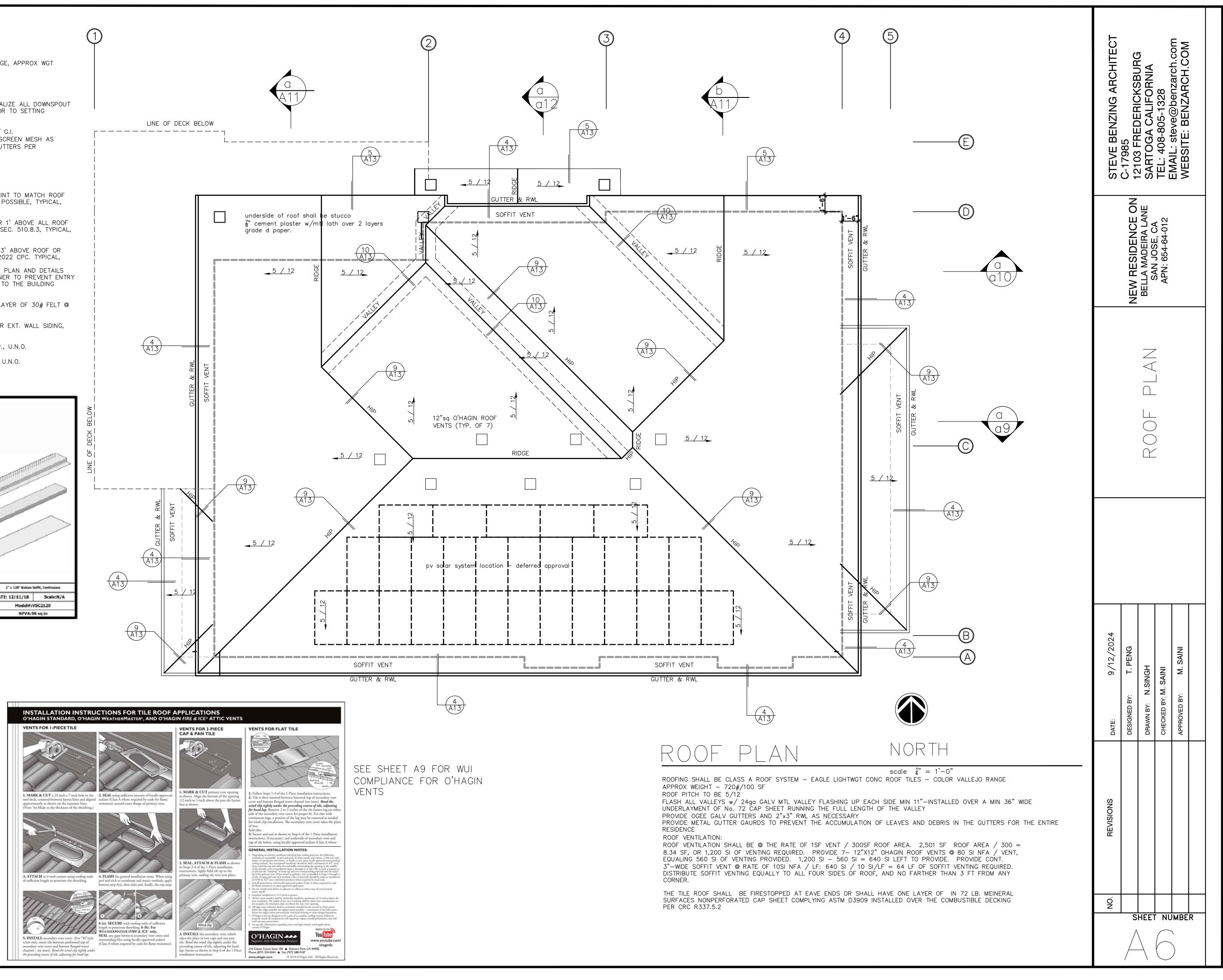








	LISTING SERVICE	
LISTING No.	8165-2192:0100	Page 1 of 1
CATEGORY:	8165 VENTS FOR WILDLAND URBAN INTERFACE (W.U.I.)	
LISTEE:	Vulcan Technologies580 Irwin Street, Suite 1, San Rafel, CA 94901 Contact: Larry Dumm (916) 626-2400 Fax (916) 647-0477 Email: Larry@newcalmetals.com	
DESIGN:	Vulcan Technologies Model VFS414 (4"X14"), VFS614 (6"X14"), VFS814 (8"X14") foundation vent. Model VE3522 (3.5"X22"), VE 5522 (5.5"X22"), 7522 (7.5"X22") Soffit/Eave ven *Model VSC2120 Continuous Soffit Vent. Aluminum honeycomb core, 5/8" nominal thickness with 1/4" cells. 1 to 2 mil cell walls. 1/4" stainless steel mesh Intumescent coating	t.
RATING:	Rated for use as materials for exterior wildfire exposure in Wildland Urban Interlareas.	ace (WUI) fire
INSTALLATION:	In accordance with listee's printed installation instructions, applicable codes and and in a manner acceptable to the authority having jurisdiction.	ordinances
MARKING:	Listee name. Model number, rating and SFM label.	
APPROVAL:	Listed as foundation vent, soffit vent, and eave vent for use in Wildland Urban Ir (WUI).	terface Areas
NOTE:	This listing is considered an alternate method of compliance with 706A, 2016 Cl Methods of Compliance are listed as a one time listing only.	BC. Alternate



### CLASS "A" ROOFING SYSTEM: ALL ROOFING SHALL BE INSTALLED OVER 1/2" EXTERIOE GRADE LP OSB STRUCTURAL 1 OR CD-X PLYWOOD SHEATHING OR EQUIVALENT WITH ROOD PITCHES AS SHOWN, TYPICAL, U.N.O. - SEE ROOF FRAMING PLAN, NOTES, AND DETAILS AND SHEATHING SPECS AND DETAILS FOR MORE INFORMATION, TYPICAL U.N.O..

### LIGHTWEIGHT CONCRETE ROOF TILE: (SPECIFY BRAND SPECIFICS)

# GUTTERS AND DOWNSPOUTS

SEE EAVE DETAILS FOR MORE INFORMATION, TYPICAL U.N.O. SEE SITE PLAN FOR MORE SURFACE-DRAINAGE INFORMATION. DO NOT CONNECT DOWNSPOUT DRAINS TO FOUNDATION FOOTING DRAINS. FINALIZE ALL DOWNSPOUT LOCATIONS WITH IN-FIELD WALK-THROUGH WITH OWNER/DEVELOPER PRIOR TO SETTING UNDERGROUND DRAINAGE PIPING.

### GUTTERS:

PROVIDE 5"-DIA. 24-GA. HALF-ROUND BONDERIZED GUTTERS W/ G.I. BRACKETS AT APPROX. 4'-0" O/C. INCLUDE G.I. GUTTER COVER/SCREEN MESH AS REQUIRED TO PREVENT THE ACCUMMULATION OF LEAVES/DEBRIS IN GUTTERS PER 2019 CRC SEC. R327.5.4. AND 2019 CBC SEC. 705A.4, TYPICAL U.N.O..

### DOWNSPOUTS:

PROVIDE 3"-DIA. ROUND 24-GA. G.I. DOWNSPOUTS WITH G.I. BRACKETS.

# ROOF JACKS:

PROVIDE NEOPRENE GASKETS AND G.I. ROOF JACK/RAIN CAP - PAINT TO MATCH ROOFING COLOR AND LOCATE WHERE NOT VCISIBLE FROM STREET WHEREVER POSSIBLE, TYPICAL U.N.O..

### EXHAUST VENTS:

ALL EXHAUST VENTS SHALL BE LOCATED A MIN. OF 3' FROM, OR 1' ABOVE, ALL ROOF OR WALL OPENINGS PER 2019 CMC SEC. 504.5, SEC. 510.8.2, AND SEC. 510.8.3, TYPICAL U.N.O..

### PLUMBING VENTS:

ALL PLUMBING VENTS SHALL BE LOCATED A MIN. OF 10' FROM, OR 3' ABOVE, ROOF OR WALL OPENINGS PER 2019 CPC SEC. 510.5.2, SEC. 906.1, AND SEC. 906.2, TYPICAL U.N.O..

### ADDRESS NUMBERS:

APPROVED ADDRESS NUMBERS SHALL BE PLACED (OR MAINTAINED) ON THE BUILDING IN SUCH A POSITION AS TO BE PLAINLY VISIBLE AND LEGIBLE FROM THE STREET, OR ROAD, FRONTING THE PROPERTY, AND CONTRASTING TO THEIR BACKGROUND. ADDRESS NUMBERS SHALL BE A MIN. OF 4" HIGH WITH A MIN. ILLUMINATED STROKE WIDTH OF 1/2", TYPICAL U.N.O..

### FLASHING:

PROVIDE 26-GA. GALV. FLASHING PER 2019 CRC SEC. R905.2.8.

SEE ROOF PLAN AND DETAILS FOR MORE INFORMATION, TYPICAL U.N.O.

INSTALL FLASHING IN A MANNER TO PREVENT ENTRY OF WATER INTO THE WALL CAVITY OR PENETRATION OF WATER TO THE BUILDING STRUCTURAL FRAMING COMPONENTS.

# VALLEY FLASHING:

PROVIDE 26-GA. GALV. "W" FLASHING OVER CONTINUOUS 36"-WIDE (MIN.) EXTRA LAYER 30# FELT AT ALL VALLEYS, TYPICAL U.N.O.

## STEP FLASHING:

PROVIDE 26-GA. GALV. STEPV "L" FLASHING PER DETAILS AT ROOF AND UNDER EXTERIOR WALL SIDING, TYPICAL U.N.O..

### PITCH BREAK FLASHING:

PROVIDE 26-GA. GALV. "L" FLASHING AT ALL WALL/PITCHED-ROOF INTERSECTIONS, TYPICAL U.N.O..

# WINDOW/DOOR HEAD FLASHING:

PROVIDE 26-GA. GALV. "Z" FLASHING ABOVE ALL WINDOWS AND DOORS, TYPICAL U.N.O..

### EXTERIOR SIDING & TRIM: SEE WALL, DOOR, AND WINDOW DETAILS FOR MORE

INFORMATION. INSTALL ALL ADHERED STONE VENEER PER MANUFACTURER'S SPECIFICATIONS.

# EXTERIOR STUCCO SIDING:

PROVIDE 7/8"-THICK MIN. 3-COAT ACRYLIC STUCCO WITH "OLD WORLD" TEXTURE OVER STUCCO WIRE LATH OVER 2 LAYERS CLASS "D" BUILDING PAPER OR TYVEK BUILDING WRAP, WITH WEEP SCREED AT BASE, TYPICAL U.N.O..

# ADHERED THIN STONE VENEER

EL DORADO "COURSED STONE" ADHERED VENEER, COLOR: "SANTA BARBARA", AT WALLS, CHIMNEYS, ETC. WHERE SHOWN ON DRAWINGS. INSTALL ALL STONE OVER 3/4"-1"-THICH MORTAR BED OVER STUCCO WIRE LATH OVER "CADCO J-DRAIN #303" DRAINAGE BLANKET (OR EQUIVALENT) OVER 2 LAYERS KRAFT WATERPROOF BUILDING PÁPER OR TYVEK BUILDING WRAP OVER BUILDING SHEATHING PER STRUCTURAL DRAWINGS OVER 2X STUDS AT 16" 0/C, TYPICAL U.N.O..

# WINDOW/DOOR TRIM:

WINDOW AND DOOR TRIM IS INTEGRAL TO THE INDIVIDUAL UNITS.

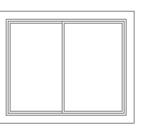
# WINDOWS:

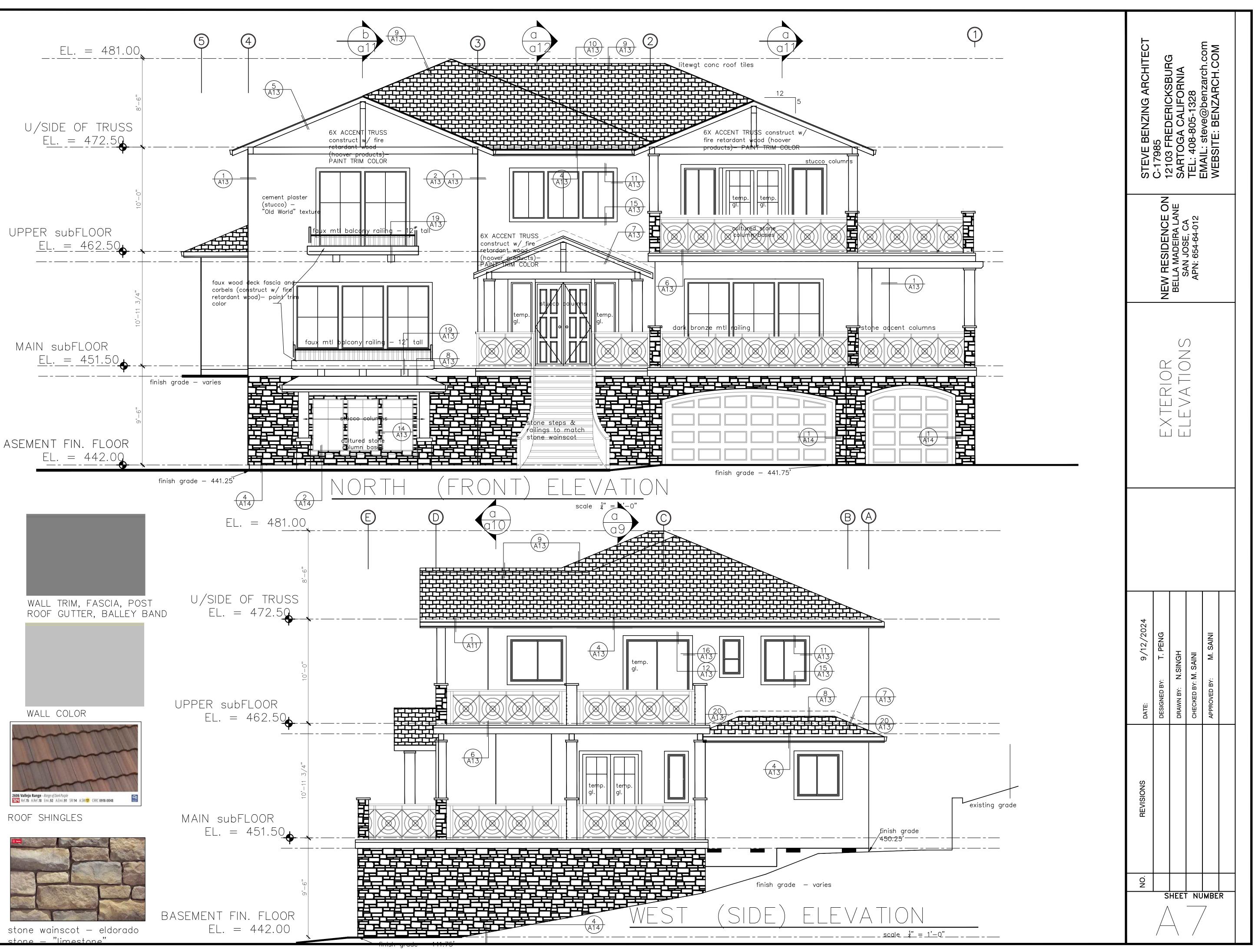
JEN-WELD WINDOW CO. ALUMINUM-CLAD WOOD-FRAME WINDOWS WITH PAINT-GRADE INTERIORS AND DUAL-GLAZED LOW-E2 GLASS, TYPICAL U.N.O. REFER TO WINDOW SCHEDULE FOR MORE INFORMATION.

# EXTERIOR DOOR:

REFER TO DOOR SCHEDULE FOR MORE INFORMATION, TYPICAL U.N.O..

EXTERIOR RAILING: WROUGHT IRON RAILING TO BE SELECTED BY OWNER.











stone - "limestone"

WINDOW TYP

VINYL FRAMED

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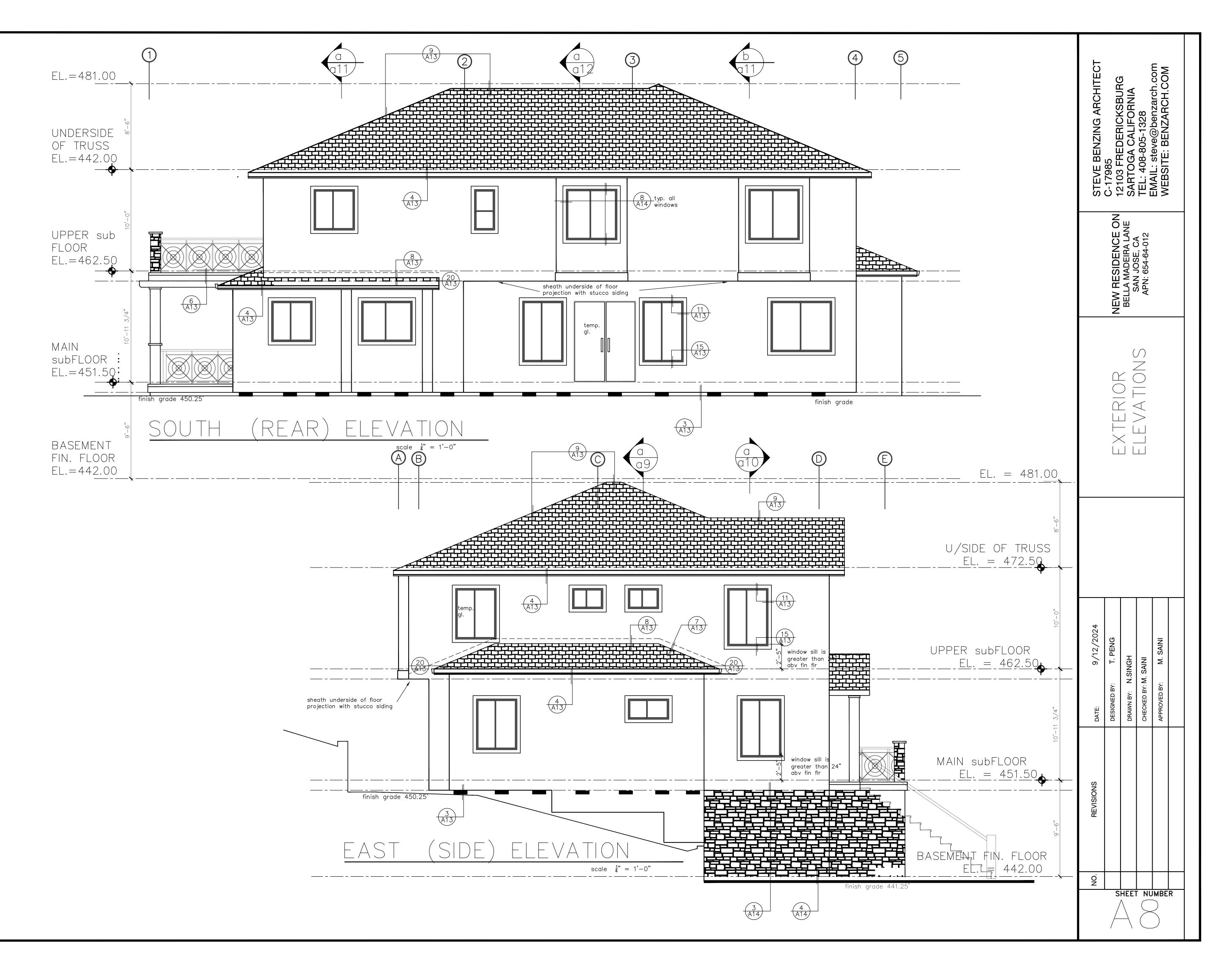
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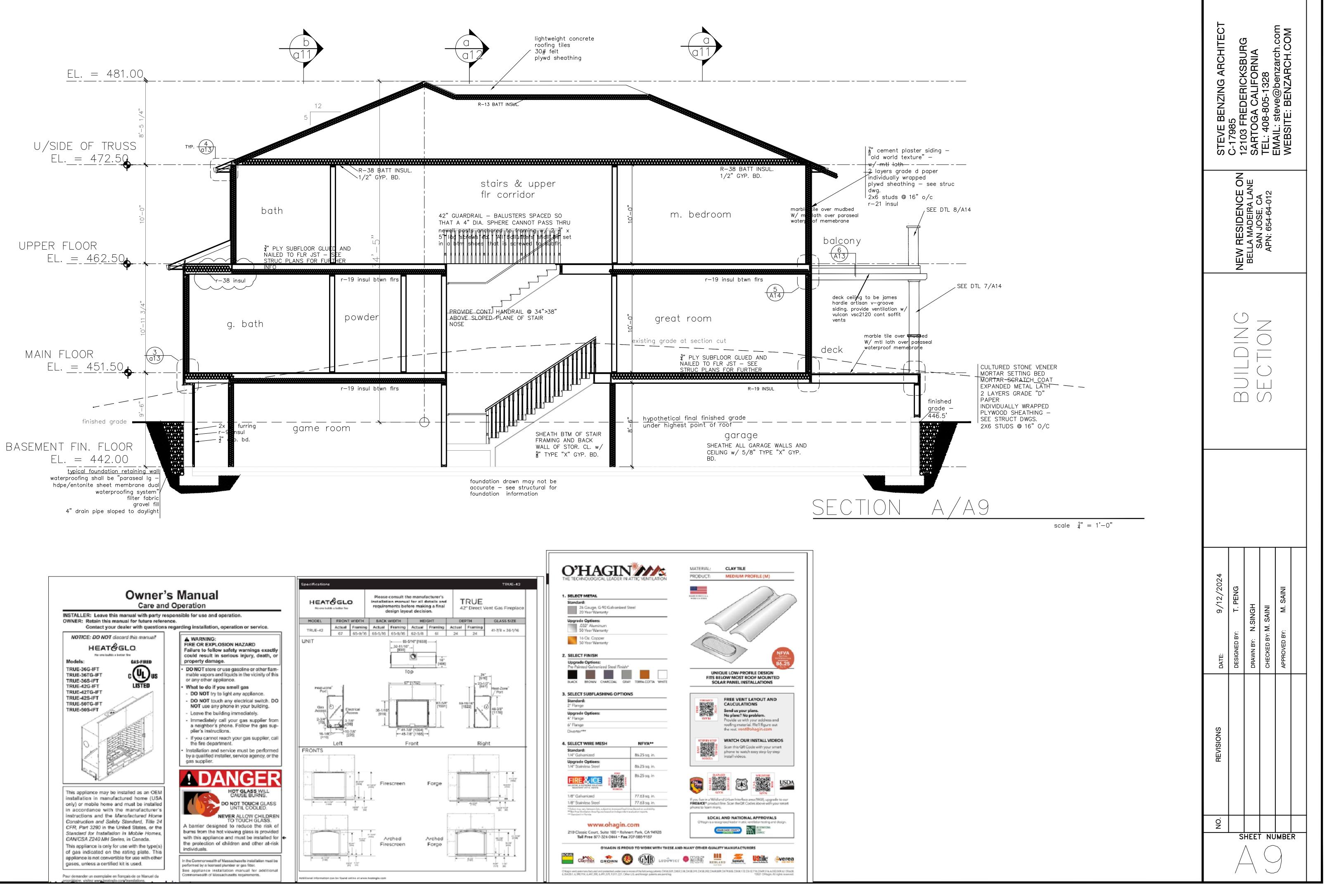
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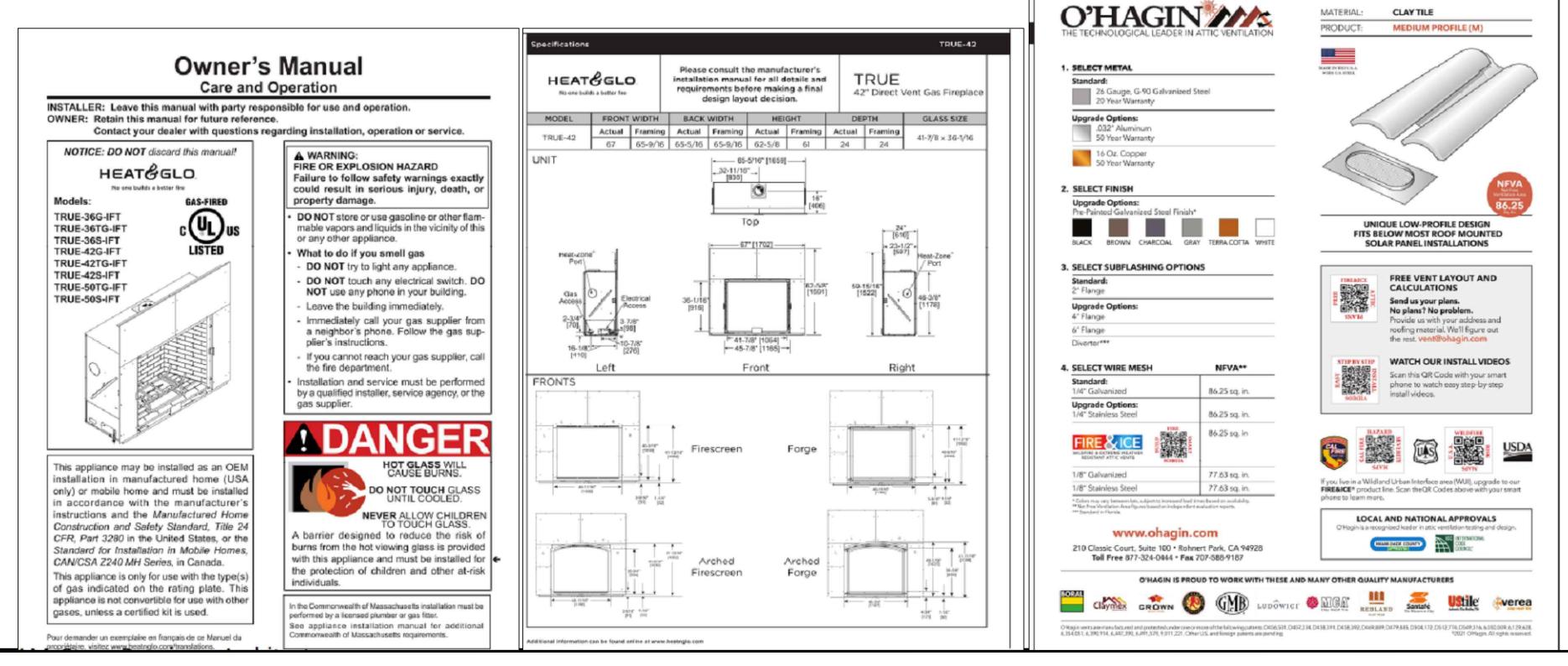
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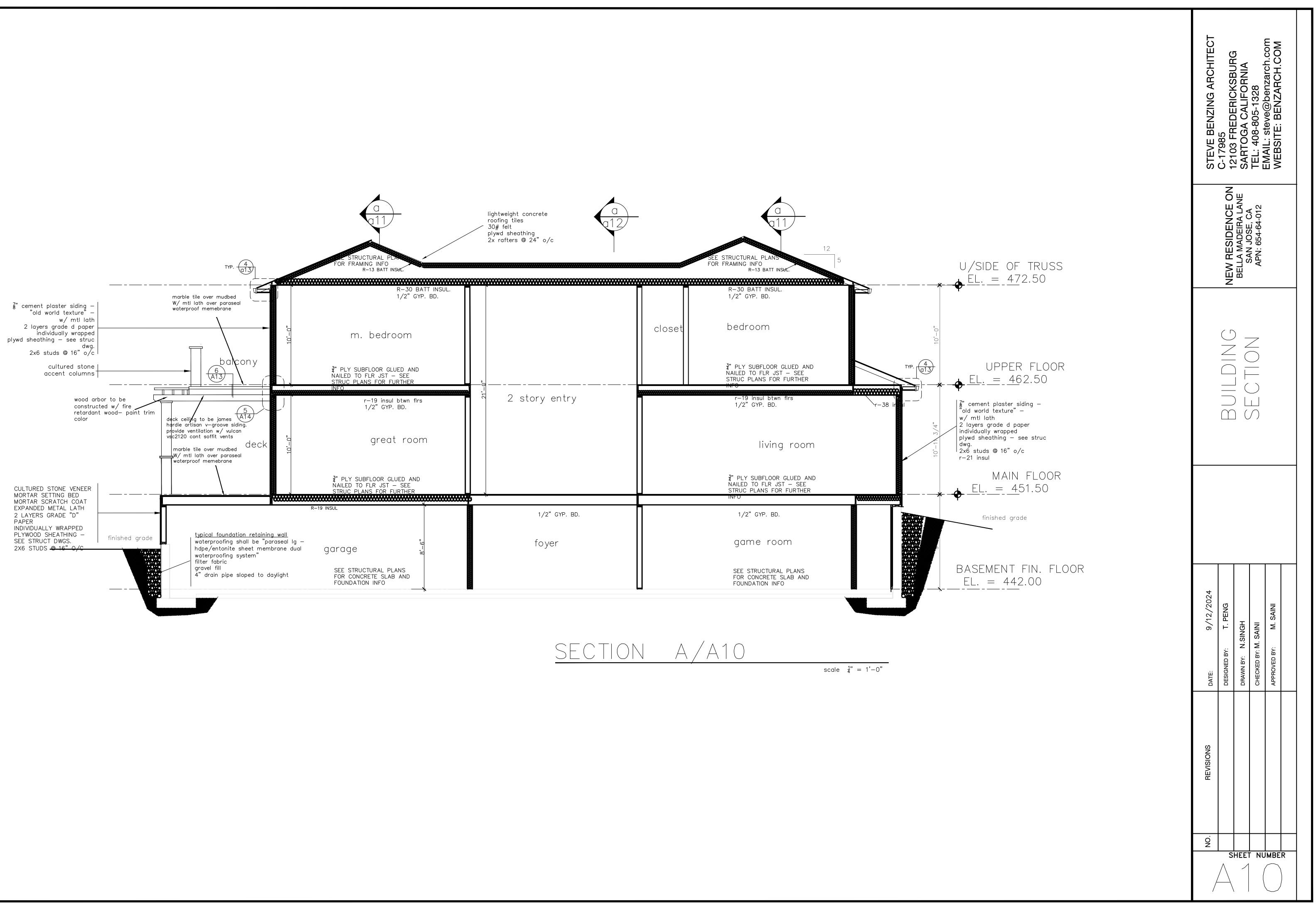
EXTERIOR DOOR: REFER TO DOOR SCHEDULE FOR MORE INFORMATION, TYPICAL U.N.O..

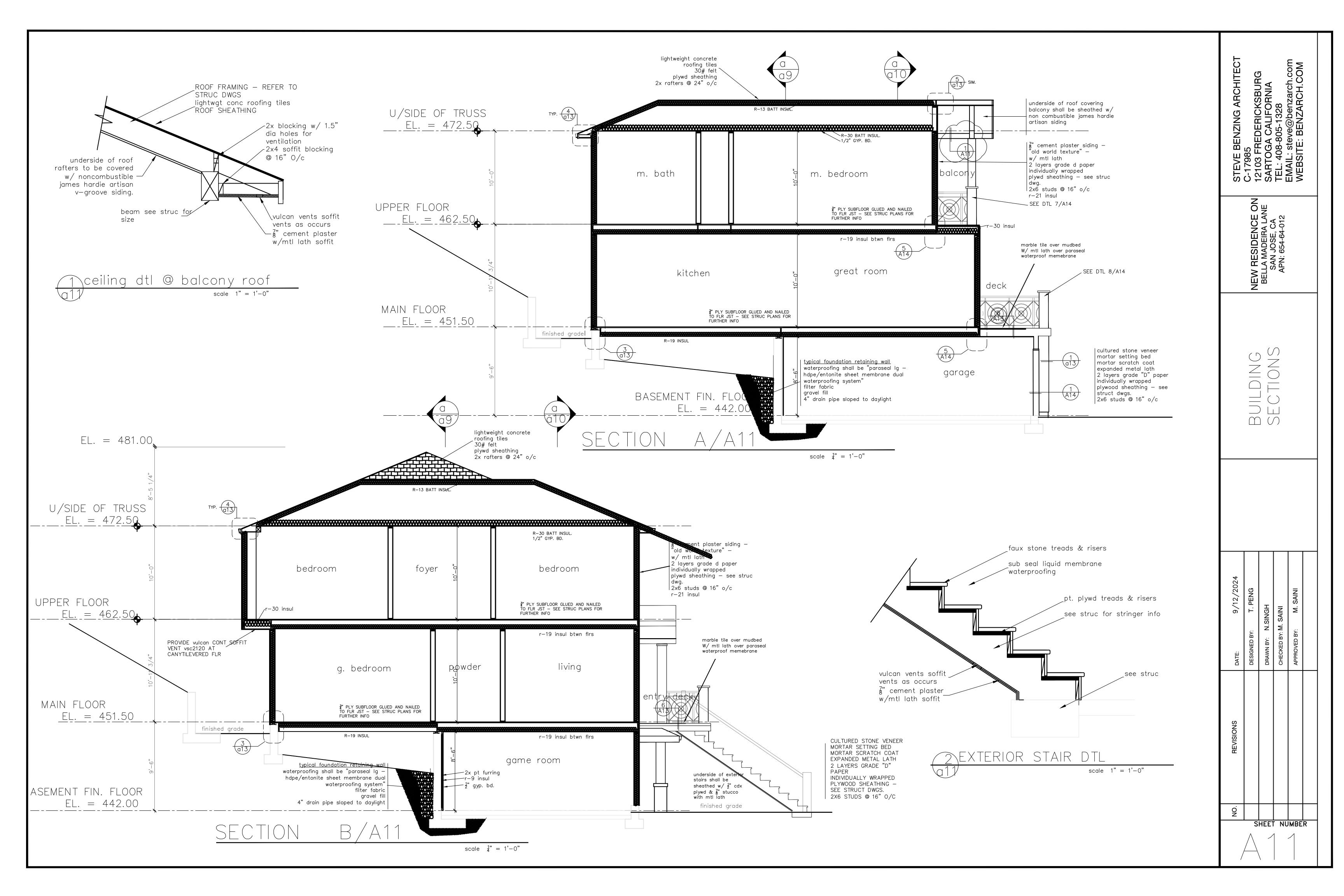
EXTERIOR RAILING: WROUGHT IRON RAILING TO BE SELECTED BY OWNER.

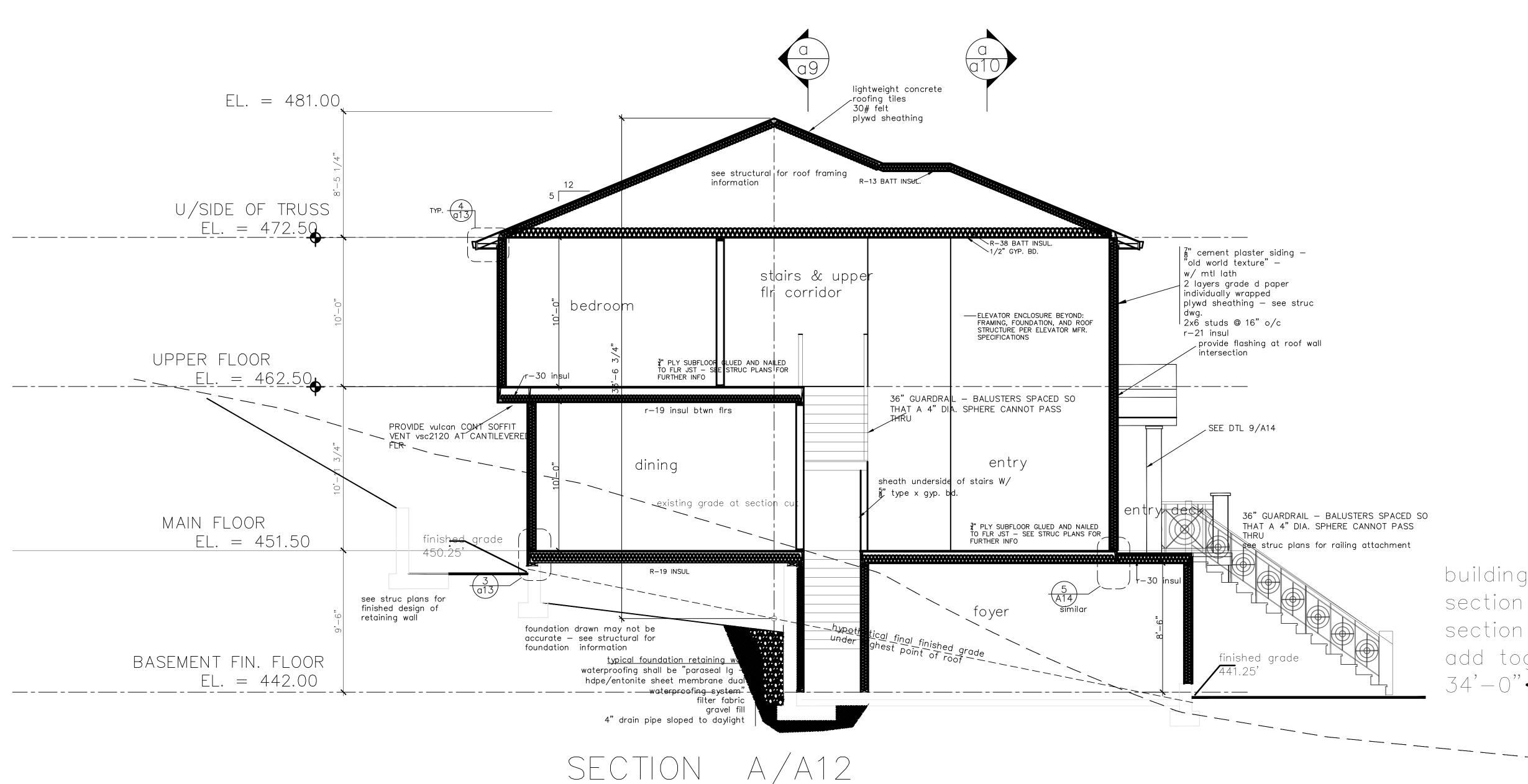


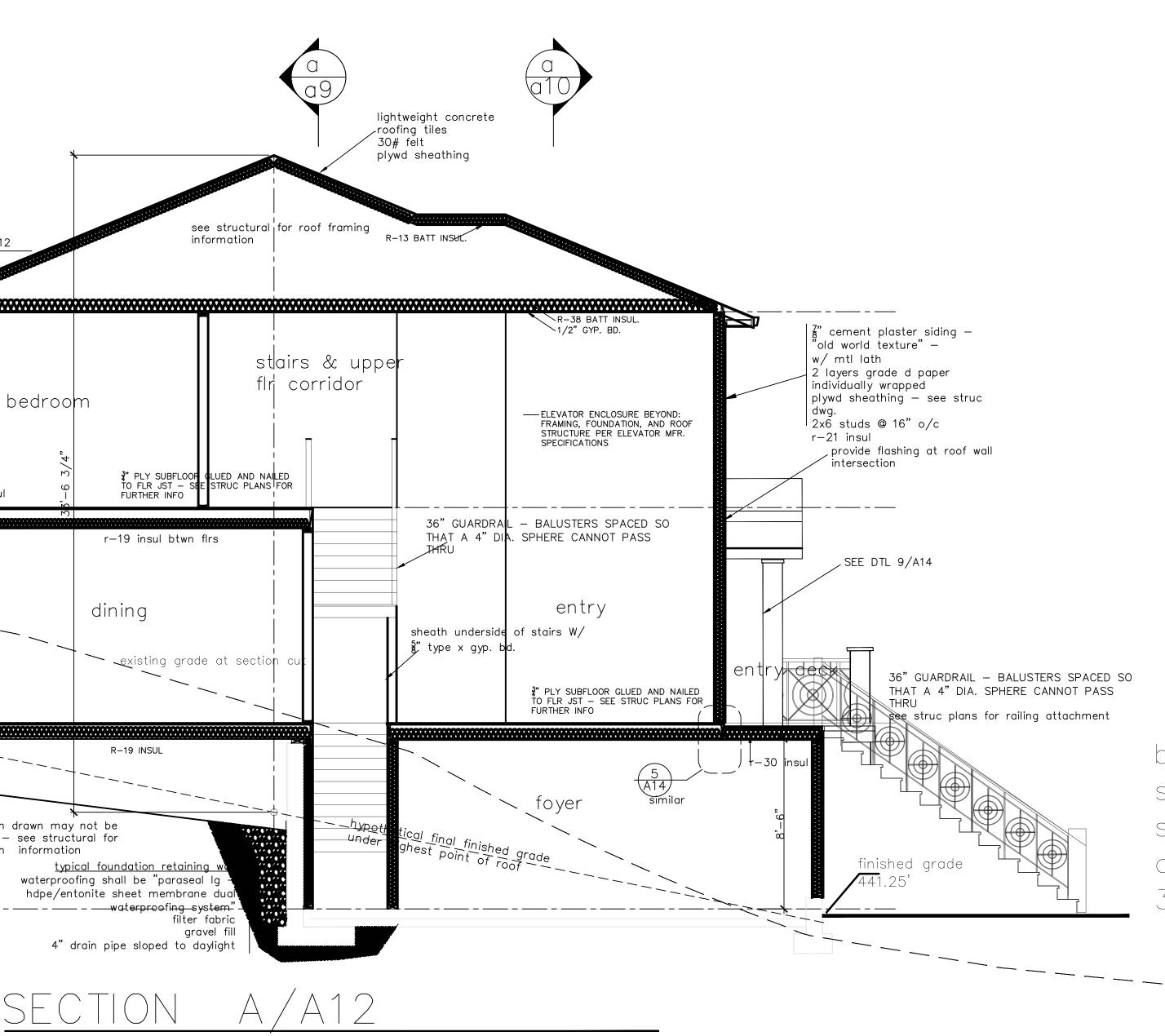






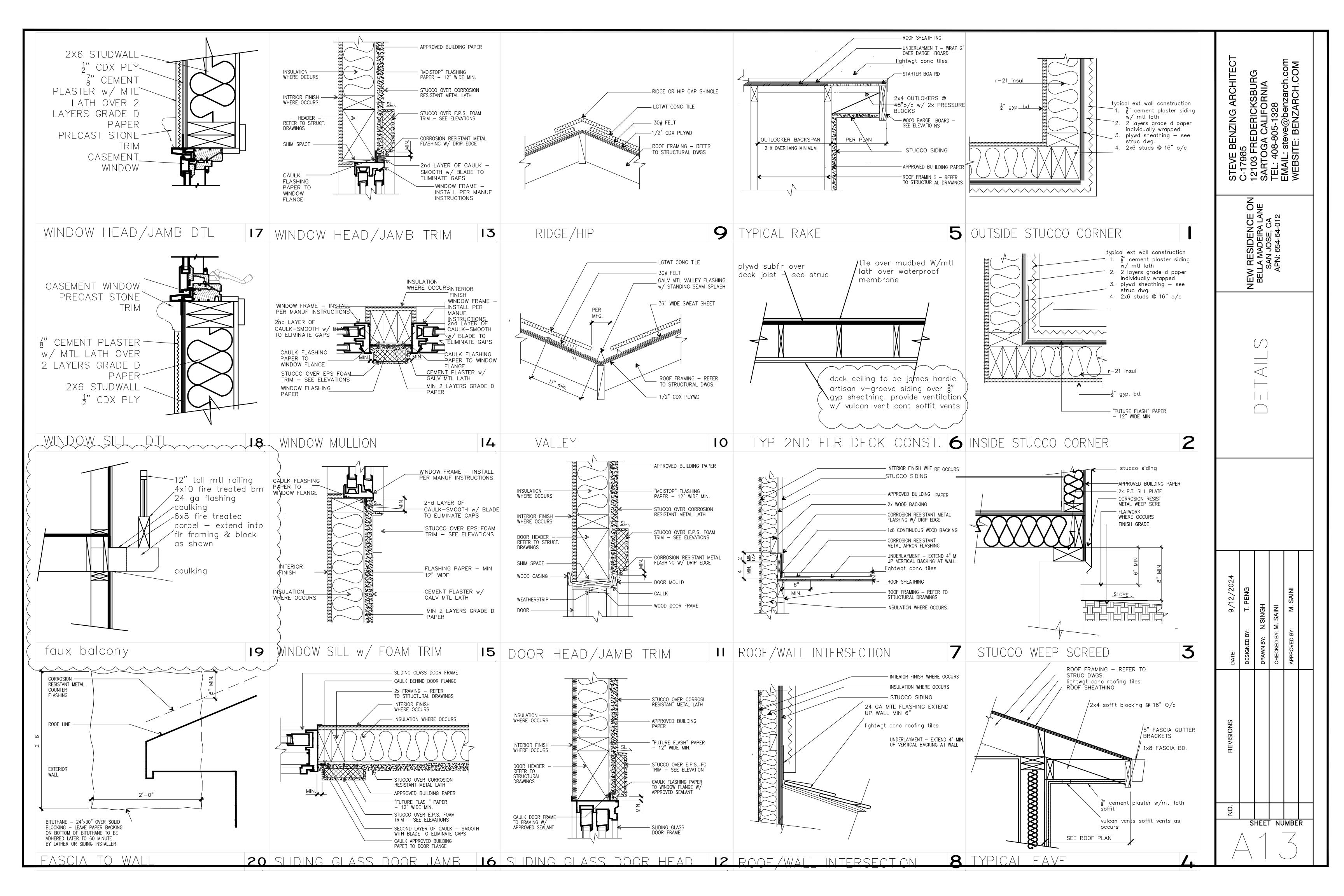


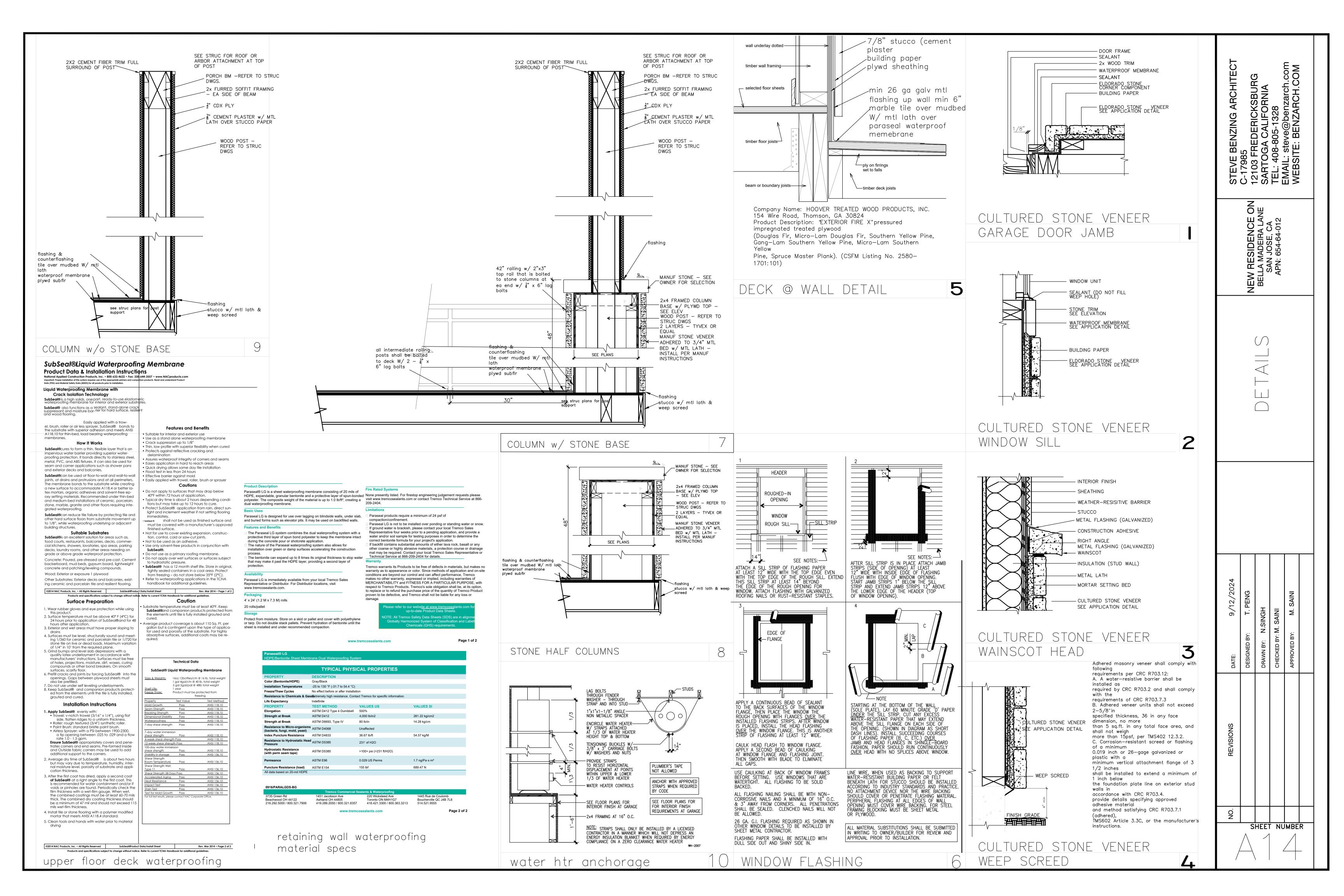


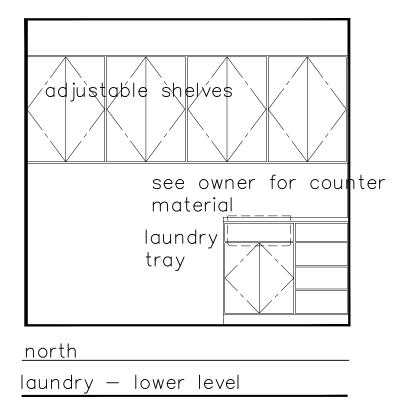


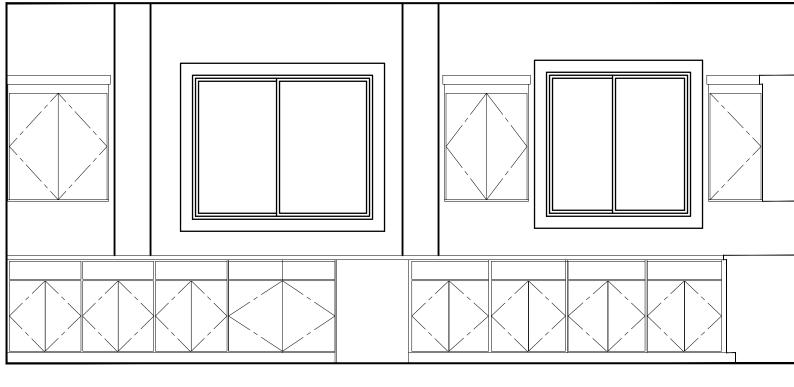
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	STEVE BENZING ARCHITECT C-17985 C-17985 T2103 FREDERICKSBURG SARTOGA CALIFORNIA SARTOGA CALIFORNIA TEL: 408-805-1328 EMAIL: steve@benzarch.com WEBSITE: BENZARCH.COM
	NEW RESIDENCE ON BELLA MADEIRA LANE SAN JOSE, CA APN: 654-64-012
g height n b - 34'- 5" n a - 33'-6.75" ogether - 67'-11.75"/2 = "<35'-0"	BUILDING SECTIONS
	DATE: 9/12/2024 DESIGNED BY: T. PENG DRAWN BY: N.SINGH CHECKED BY: M. SAINI APPROVED BY: M. SAINI
	REVISIONS
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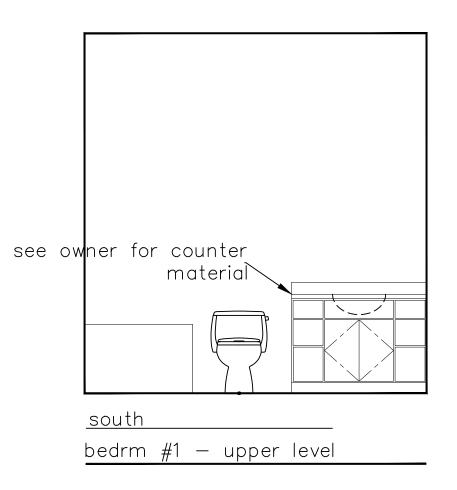


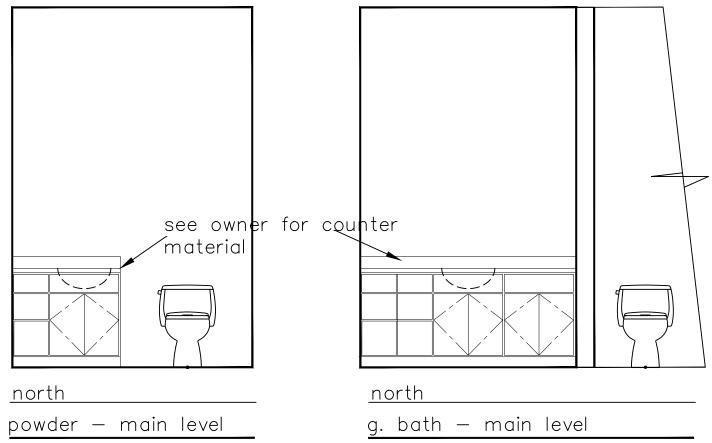


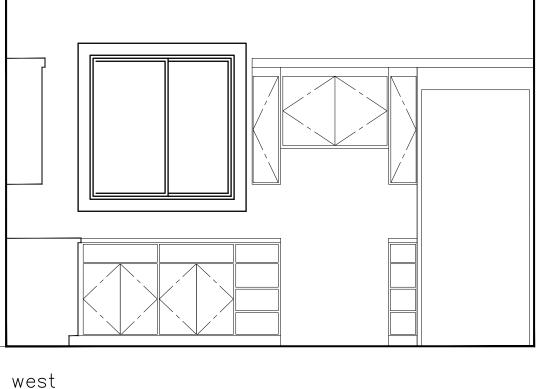


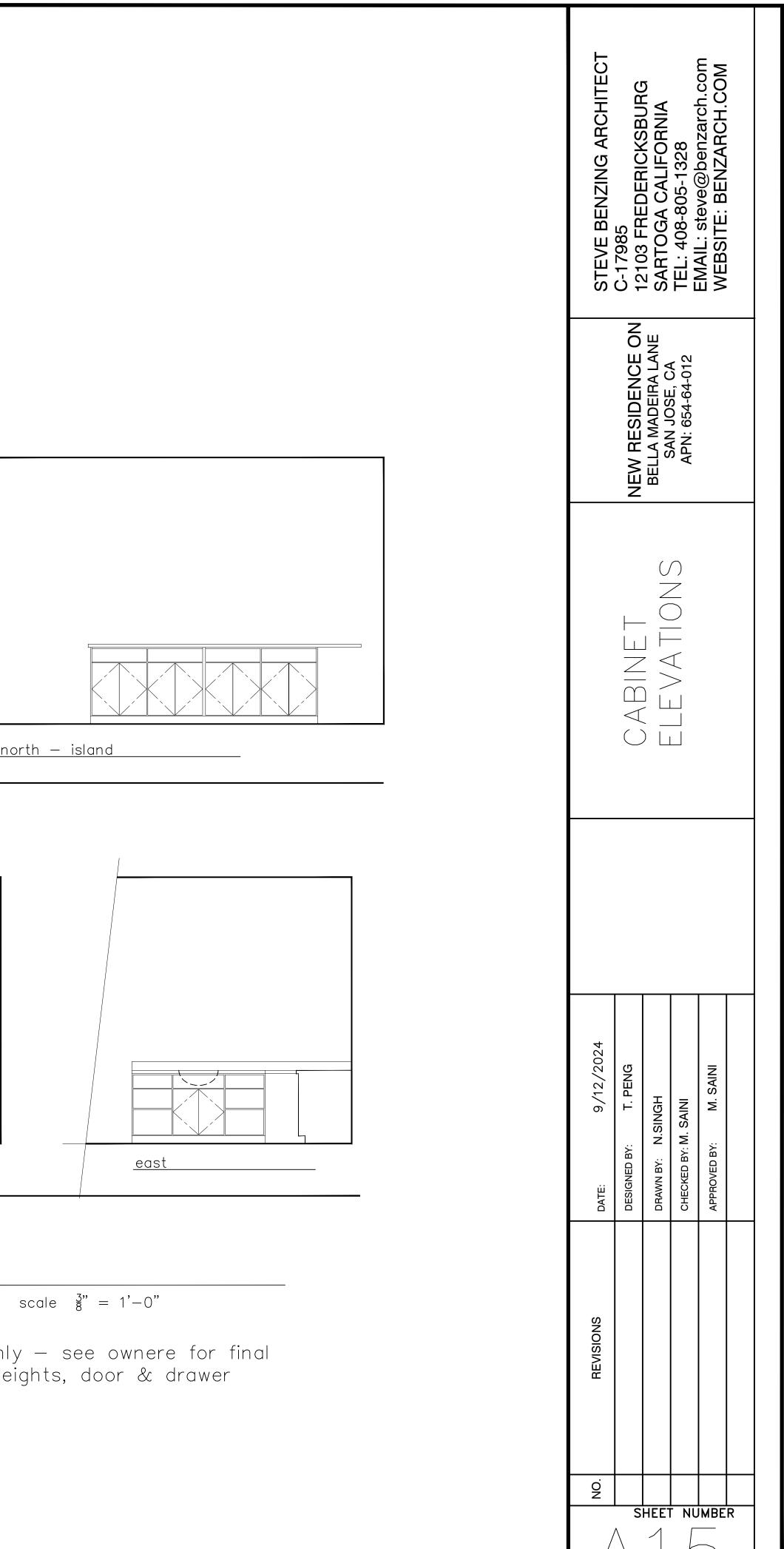


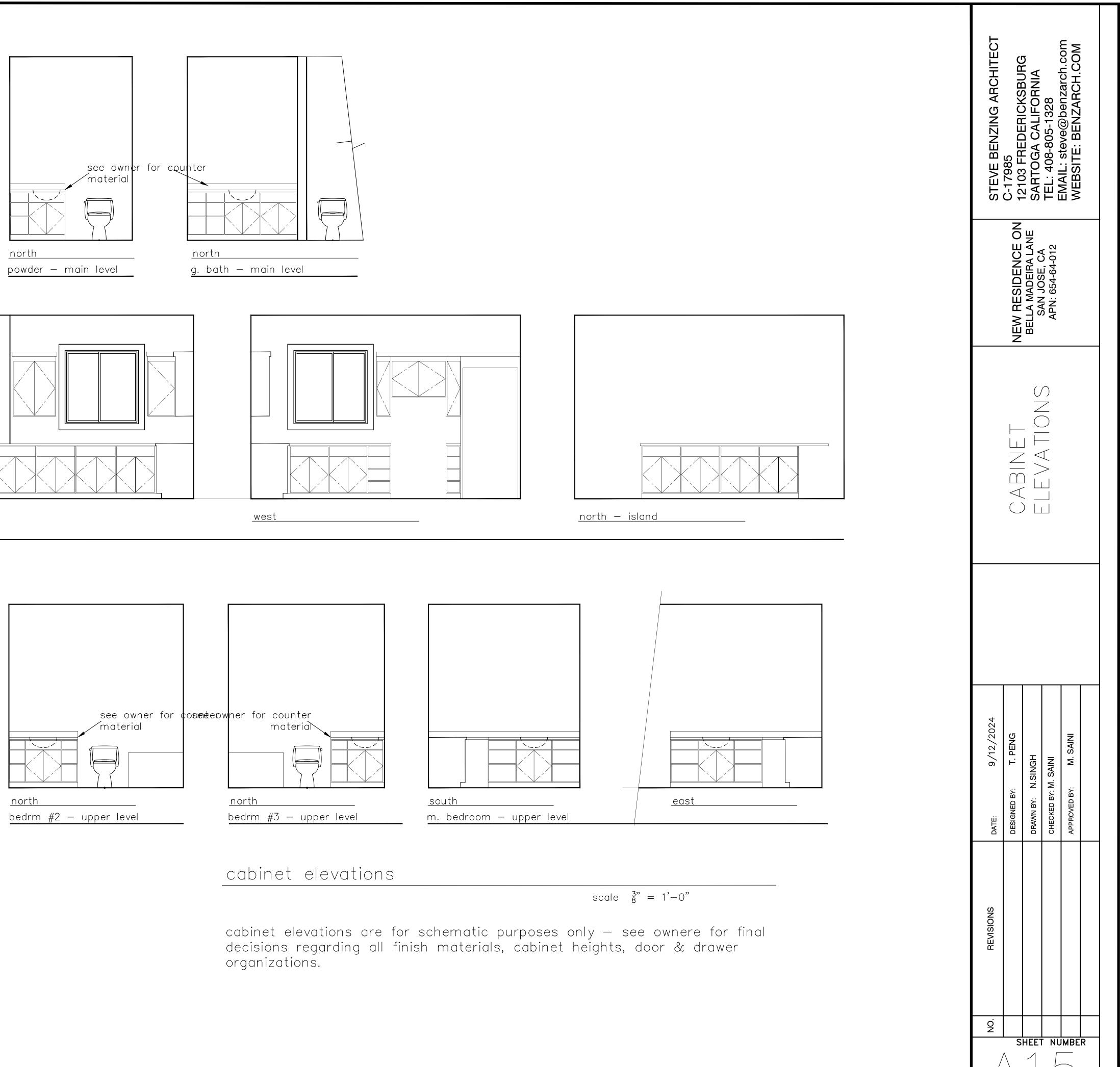
<u>south</u> kitchen — main level











## CERTIFICATE DF COMPLIANCE - RELIDENT NU PERFORMANCE COMPLIANCE INETHED

Project Same: Recidential Building Calculation Description: Title 26 Analysis Calculation Bate, View 2028-06-20730-08-04 (2)/08 legen Nie klane: Leizmechnistenenhood, rikdOb

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CERTIFICATE DI COMPLIANCE - REVIDENTIAL PERFORMANCE COMPLIANCE IMETHED	
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# CERTIFICATE DF COMPLIANCE - REHOLINE PLANORMANCE COMPLIANCE METHOD

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Project Same Residential Robbing

Calculation Description: Title 26 Analysis

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### CERTIFICATE OF COMPLIANCE - RESIDENTIN, HEROBIAARCE COMPLIANCE METHOD Project Rame Perchantial Building

Calculation Description: Tris 24 Analysis

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# CERTIFICATE DF COMPLIANES - REHOENTING FERFORMANCE COMPLIANCE METHED

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# CERTIFICATE DF COMPLIANCE - RESIDENTING FERRORIAANCE COMPLIANCE METHOD Proper Rent Residential Building

Calculation Description: Title 24 Analysis

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Page 1 of 20)

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Calculation Bales/Time: 2023-00-20730-85-44-01-02 Input No Name Gelanes/Incidentar/InvE.cluB2Ds

**在18-48**1-481 Page 1 of 20

STEVE BENZING ARCHITECT				WEBSITE: BENZARCH.COM						
NEW RESIDENCE ON BELLA MADEIRA LANE SAN JOSE, CA APN: 654-64-012										
		ENERGY	COMPLIANCE							
DATE: 9/12/2024	DESIGNED BY: T. PENG	DRAWN BY: N.SINGH	CHECKED BY: M. SAINI	APPROVED BY: M. SAINI						
REVISIONS										
ON	<b>S</b>		NU		R					

Voject Name: Residentia Calculation Description:					ne: 2023-05-20T1 James Residence Re		
PAQUE SURFACE CONSTR						Far heaten	
65	62	03	04	05	06	07	08
Construction Name	Surface Type	Construction Type	Framing	Tetal Cavity R-value	Interior / Exterior Continuous Review	U-factor	Assembly Layors
Attic RoafSecond Floor	Attic Roofs	Wood Framed Celling	2x4 @ 26in.0.C.	R-13	Name / O	0.072	Roofing: 10 PSF (RoofTileAirSap) Tile Gap: present Roof Deck: Wood Siding/sheathing/decking Casity / Frame: R-03.0 / 2x4 Around Roof Joists: R-0.0 insul.
Attic RoofThird Roor	Attic Roofs	Wood Framed Ceiling	2x4 @ 24 in . 0. C.	R-13	None / O	0.072	Roofing: 10 PSF (RoofTileAirSap) Tile Gap: present Roof Deck: Wood Siding/shexthing/decking Casity / Frame: R-13.0 / 2x4 Around Roof Joists: R-0.0 insul.
8-19 Floor Grawlspace	Flaors Over Crawlapace	Wood Framed Floor	26816in.0.C.	R-19	None / None	0.05	Floor Surface: Carpeted Floor Ded: Wood Siding/Sheathing/decking Cavity / Frame: 8-19 in 5-1/2 in (9-1) 2x5
R-30 Roof Attic+Int/R-13	Geilings (below əztic)	Waad Framed Ceiling	2x4 @ 24 in.0. C.	R-30	Nors / Nore	0.032	Dver Celling Johns: R-20.9 Insul, Cavity / frame: R/0.1 / 2x4 Inside Finish: Gypsum Board
8-29 Floor No Crawlspace	Exterior Roors	Wood Framed Floor	245@15in.0.C.	R-25	Nore / Nore	0.053	Floor Surface: Cargeted Roar Deck: Wood Siding/Jeaching/Secking Cavity / Frame: II-19 in 5-1/2 in. (II-1) 2x6
N-D Floor No Crawl space	Interior Floors	Wood Framed Floor	2x12@35in.0.C.	8-0	Nore / Nore	D.196	Floor Surface: Cargeted Roar Dedi: Wood Siding/sheathing/decking Cavity / Frame: no insul. / 2:12 Ceiling Below Finish: Geosum Ioan

 
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CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Residential Building

Calculation Description: Title 24 Analysis

Calculation Date/Time: 2023-05-20T10:49:44-07:00 Input File Name: LeJamesResidenceRevCribd22x

HARC-DISTRIBUTIO	N SYSTEMS											
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Calculation Descri								le Name: La					in the state of the
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NATER HEATERS - N	EEA HEAT PUMP							_					
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### CERTIFICATE OF COMPLIANCE - RESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Project Name: Residential Building

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(Page 13 of 15)

Calculation Description: Title 24 Analysis

# Calculation Date/Time: 2023-05-20T10:49:44-07:00 Input File Name: LeJamesResidenceRevC.ribd22x

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roject Name: Resi alculation Descrip	tion: Title 24 Analy	58						Inpu	n Fik	Name	LeJames A	osidence	RevC.ribd22			
WATER HEATING - HE	RSVERIFICATION						_									
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VAC - HEAT PUMPS			-	-		-			H	-	1	_				
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					Heati	ne .	_	1.17			Cooling					
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VAC HEAT PUMPS -	HERS VERIFICATION							_								
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leat Pung System 1-bers/htpump	Required	350		N	at Require	d		Required			Yes		Yes	Yes		Yes

# CERTIFICATE OF COMPLIANCE - RESIDENT

Project Name: Residential Building	Calculation Date/Time: 2023-05-20710:49:44-07:00 (Page 15 of 15
Calculation Description: Title 24 Analysis	Input File Name: LeJamesResidenceRevC.ribd22x
DOCUMENTATION AUTHOR'S DECLARATION STATEMENT	
1. I certify that this Certificate of Compliance documentation is accurat	e and complete.
Documentation Author Name: Mitario Bertacido	Mario Bertacco
Compuny NRG Compliance LP	Signature Date: 05/20/2023
Address: PO Box 3777	CEA/ HDRS Certification identification ()f applicable):
Ota/Suris/Dp: Santa Ross, CA 95402	Phote: 707-237-6957
RESPONSIBLE PERSON'S DECLARATION STATEMENT	
I certify the following under penalty of perjury, under the laws of the Scate of C     Law eligible under Division 8 of the Business and Professions Code     Lortify that the energy features and performance specifications lie     The building design features or system-design features identified on     calculations, plans and specifications submitted to the enforcement	to accept responsibility for the building design identified on this Certificate of Campliance. entified on this Certificate of Campliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Cade of Regulations. In this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, a spency for approval with this building permit application.
I certify the following under penalty of perjury, under the laws of the State of C     L     I am eligible under Division 8 of the Business and Professions Code     L serify that the energy features and performance specifications ide     The building design features or system-design features identified on	to accept responsibility for the building design identified on this Certificate of Campliance. entified on this Certificate of Campliance conform to the requirements of Title 34, Part 1 and Part 6 of the California Cade of Regulations. I this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets,
I certify the following under penalty of perjury, under the laws of the Scate of C 1. Law eligible under Division it of the Business and Professions Code 2. Loertify that the energy features and performance specifications life 3. The building design features or system-design features identified on calculations, plans and specifications submitted to the enforcement Responsible Designer Name:	to accept responsibility for the building design identified on this Certificate of Campliance. entified on this Certificate of Campliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Cade of Regulations. In this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, a spency for approval with this building permit application. Mexponsible Designer Signature:
I certify the following under penality of perjury, under the laws of the State of Co 1. Law eligible under Drivision it of the fluxiness and Professions Code 2. Lawring that the energy features and performance specifications lide 3. The building design features or system-design fractures identified on calculations, plans and specifications submitted to the enforcement Responsible Designer Name: Shove Designer Views:	to accept responsibility for the building design identified on this Certificate of Campiliance. entified on this Certificate of Campiliance conform to the requirements of The 24, Part 1 and Part 6 of the California Cade of Regulations. In this Certificate of Compilance are consistent with the information provided on other applicable compilance documents, worksheets, tagency for approval with this building permit application. Responsible Designer Signature: Steve Benzing Date Named

Registration Number: 423-P010066344A-000 m0102: The document has been permaned by ConNor reportable to, and cannor guarantee, the acturacy of CA Building Energy Efficiency Standards - 202

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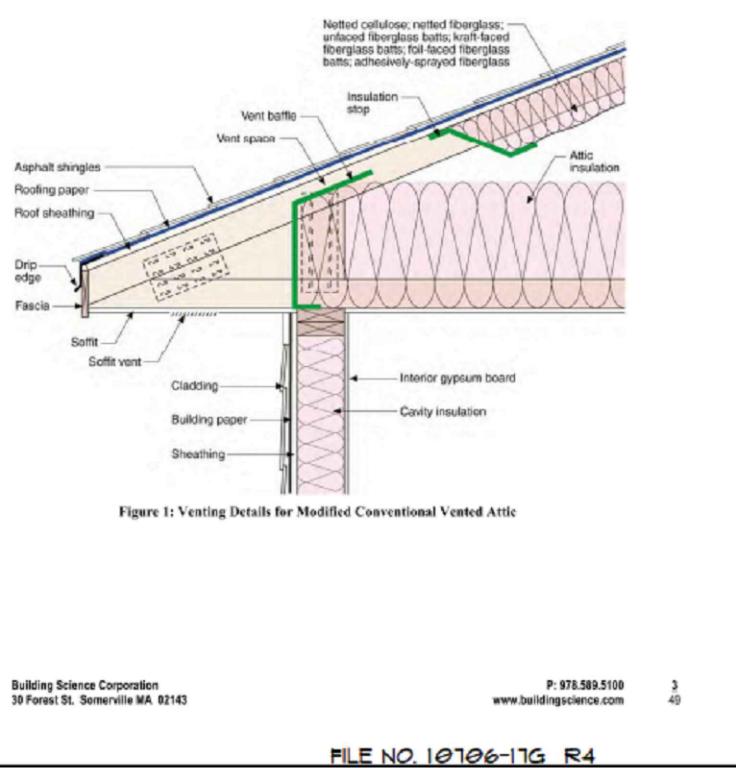
STEVE BENZING ARCHITECT	C-17985 12103 EPENERICKSRI IRG			WEBSITE: BENZARCH.COM		
	NEW RESIDENCE ON	BELLA MADEIRA LANE	APN: 654-64-012			
			COMFLIANCE			
рате: 9/12/2024	DESIGNED BY: T. PENG	DRAWN BY: N.SINGH	CHECKED BY: M. SAINI	APPROVED BY: M. SAINI		
REVISIONS						
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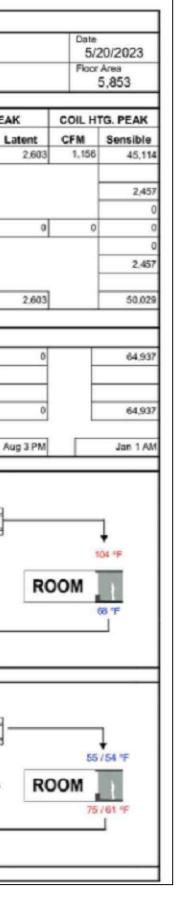
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REGIL	DENT		COULT	SOMIN	Ani						RMS-1
Project Na Le, Jam	əme				ding Type		gle Family Iti Family		Addition Alone Existing+ Addit	ion/Alteration	Date 5/20/2023
Project Ad	idress				ifornia Ene			Total	Cond. Floor Area		# of Units
and a second		Lane San	Jose	C	A Clim		10 04		5,853	n/a	1
INSUL Const		n Type		Cav	vity	Area (ft ² )	Sp	peci	al Features	6	Status
Wall	Wood F	vamed		R 20		3,958	ñ				New
Wall	Solid Ur	nit Masonvy		- no în	sulation	466	Add=R-	9.0			New
Roof	Wood F	itamed Rafter		R 30		90					New
Sieb	Unheate	ed Stab-on-Gra	de	• no in	sulation	972	Perim =	108'			New
Floor	Wood F	iramed w/Crawl	Space	R 19		1,220	0				New
Door	Opaque	Door		• no în	sulation	40					New
Roof	Wood F	ivamed Attic		R 30		2,626	Add=R-	13.0			New
Demising	Wood F	iramed w/o Cra	w Space	- no In	sulation	3,137					New
FENES	STRAT	ION	Total Area	n: 901	Glazing	Percenta	ge: 18	5.4%	New/Altered Av	erage U-Factor:	0.31
Orient	ation	Area(ft ² )	U-Fac	SHGC	Overl	hang	Sidefi	ns	Exterior S	hades	Status
Front (N)		392.2	0.310	0.25	none		none		N/A		New
Rear (S)		230.0	0.310	0.25	none		none		N/A		New
Right (W)		171.2	0.310	0.25	none		none		NA		New
Left (E)		108.0	0.310	0.25	none		none		N/A		New
	ever	EN0									
HVAC			Min F	=ff Co			Min	Eff		armostat	Statue
Qty.	Heatin	g	Min. E		ooling		Min. 16.03			ermostat	
<b>Qty.</b> 2	Heatin Electric H	l g leat Pump	Min. E 9.70 HS		ooling It Heat Pu	mp	Min. 16.0 3			ick.	Status New
Qty. 2 HVAC	Heatin Electric H	eat Pump	9.70 HS	PF Spl	lit Heat Pu		16.0 8	SEER	Setba	Duct	New
Qty. 2 HVAC Locati	Heatin Electric H DISTR	ig leat Pump RIBUTION H	a ro Hs eating	PF Spi	ooling	Duc	16.0 S	SEER	Setba	Duct R-Value	New Status
Qty. 2 HVAC Locati HVAC Sys	Heatin Electric H DISTR on devn	eat Pump RIBUTION H Due	9,70 HS eating	PF Spl Co Due	ooling	Duc	te.os	tior	Setba	Duct	New Status New
Qty. 2 HVAC Locati HVAC Sys WATE Qty.	Heatin Electric H DISTR on devn	IBUTION RIBUTION H Due	9,70 HS eating	PF Spl Co Due	ooling	Duc	16.0 S	tion	Setba	Duct R-Value	New Status

RESIDENTIAL MEASURES SUMMARY	RMS-1	HVAC SYSTEM H	EATING	AND COOLING LOAD	S SUM	MARY
Project Name Building Type Single Family Addition Alone Multi Family Existing+ Addition/Alteration	Date 5/20/2023	Project Name Le, James Residence				
Project Address California Energy Climate Zone   Total Cond. Floor Area   Addition	# of Units	System Name				
Bella Madera Lane San Jose CA Climate Zone 04 5,853 n/a	1	HVAC System				
NSULATION Area		ENGINEERING CHECKS		SYSTEM LOAD		
	Status	Number of Systems	2		COIL	COOLING PE
	New	Heating System			CFM	Sensible L
Noor Wood Framed w/o Crawl Space R 19 98	New	Output per System	48.000	Total Room Loads	1,811	38,270
		Total Output (Btuh)	96,000	Return Vented Lighting		0
		Output (Btuh/sqft)	16.4	Return Air Ducts		1,200
		Cooling System		Return Fan		0
		Output per System	40,000	Ventilation	0	0
		Total Output (Btuh)	80,000	Supply Fan		0
		Total Output (Tons)	6.7	Supply Air Ducts		1,200
ENESTRATION Total Area: 901 Glazing Percentage: 15.4% New/Altered Average U-Factor:	0.31	Total Output (Btuh/sqft)	13.7			
a land the second	Status	Total Output (sqft/Ton)	877.9	TOTAL SYSTEM LOAD		40,669
		Air System				
		CFM per System	0	HVAC EQUIPMENT SELECTION		
		Airflow (cfm)	0	Heat Pump		76.683
		Airflow (cfm/sqft)	0.00			
		Airflow (cfm/Ton)	0.0			
		Outside Air (%)	0.0%	Total Adjusted System Output		76,683
		Outside Air (cfm/sqft)	0.00	(Adjusted for Peak Design conditions)		
		Note: values above given at AR	Londitions	TIME OF SYSTEM PEAK		A
				Airstream Temperatures at Time	of Heating	
		1000		and a second		
		29 °F	67 °F	105 °F		
			B		-+H T	B
		Outside Air			- A	
		0 cfm	Heating	Coll		
HVAC SYSTEMS		∔				
Qty. Heating Min. Eff Cooling Min. Eff Thermostat	Statue					
ary nearing with En cooling with En mermostat	Status	67 °F				
		07 1		HIII H.		
			-	—U ←		
HVAC DISTRIBUTION Duct						
	Statut	COOLING SYSTEM PSYCH	ROMETRICS	(Airstream Temperatures at Time	of Cooling	Peak)
Location Heating Cooling Duct Location R-Value	Status	86 / 66 *F	71	1/61 F 55/54 F		
				•	→ti	
		Outside Air				
VATER HEATING	Chatria	0 cfm		Cooling Coil		
ty. Type Gallons Min. Eff Distribution	Status					46.4%
		75 / 62 °F		8		
				—		
				-		
EnergyPro 9.1 by EnergySoft User Number: 5581 ID: 0122202001	Page 19 of 20					

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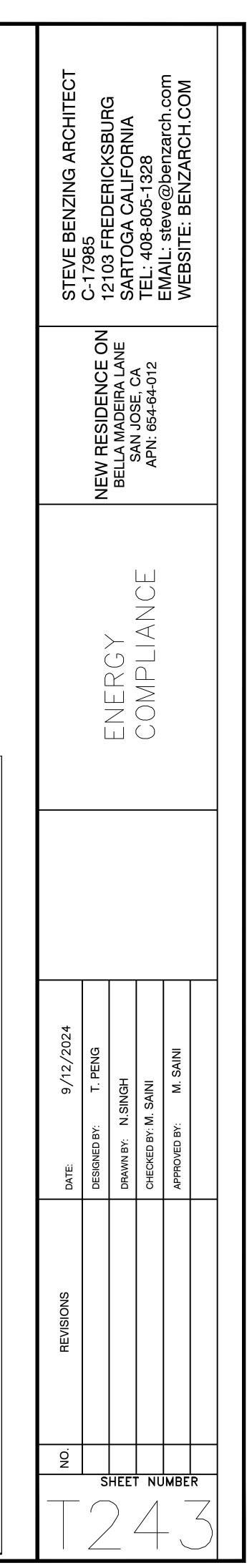


BSC Hygrothermal Analysis of California Attics

diffusion resistance to control moisture migrating through the air impermeable insulation such that moisture damage to the roof deck does not occur.

# Modified Conventional Vented Attics

A conventional, ventilated attic (with fiberglass batt insulation on the ceiling plane) can be modified by adding fiberglass batt (or netted fiberglass or netted cellulose or spray applied fiberglass) insulation to the underside of the roof deck (i.e. on the slope) while leaving the attic air space ventilated to outdoors. Figure 1 shows the placement of deck insulation and the venting details necessary to ensure continued ventilation of the modified attic assembly; Figure 2 shows a range of deck insulation options. The modified conventional vented attic configuration is not well understood and is examined in detail in this study.



REINFORCING	STEEL

- 1) ALL REINFORCING STEEL SHALL BE DEFORMED INTERMEDIATE GRADE BARS CONFORMING TO A.S.T.M. A-615, GRADE 40 FOR #4 AND SMALLER BARS, GRADE 60 FOR LARGER BARS.
- 2) REINFORCING STEEL SHALL NOT BE WELDED, UNLESS SPECIFICALLY NOTED OTHERWISE. WELDING OF REINFORCING STEEL (WHERE SPECIFICALLY NOTED OR DETAILED) SHALL CONFORM TO ACI 318–19.
- 3) TO HOLD REINFORCING BARS IN THEIR TRUE POSITION AND PREVENT DISPLACEMENT, STANDARD TIE AND ANCHORAGE DEVICES MUST BE PROVIDED.
- 4) SHOP DRAWINGS FOR FABRICATION OF ANY REINFORCING STEEL SHALL BE APPROVED BY THE CONTRACTOR AND SUBMITTED TO THE ARCHITECT AND THE ENGINEER, FOR THEIR REVIEW, PRIOR TO FABRICATION.
- 5) STAGGER SPLICES IN REINFORCING STEEL UNLESS SPECIFICALLY NOTED OTHERWISE.
- 6) ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- 7) FABRICATION, ERECTION, AND PLACEMENT OF REINFORCING STEEL SHALL CONFORM TO CONCRETE REINFORCING STEEL INSTITUTE (C.R.S.I.) MANUAL OF STANDARD PRACTICE.
- 8) MINIMUM LAP SPLICE FOR ALL REINFORCING BARS AT SPLICES SHALL BE 40 BAR DIAMETERS. ALL SPLICES ARE TO BE STAGGERED. PERPENDICULAR FOOTINGS SHALL HAVE TWO SPLICE BARS AT THE TOP AND BOTTOM (24" MIN. SPLICE).
- 9) THE MINIMUM RADIUS OF BEND FOR REINFORCING STEEL, MEASURED ON THE INSIDE OF THE REBAR, SHALL BE AS FOLLOWS: #3 := 1-1/5" #4 := 2" #5 = 2.5" #6 = 4.5"
- 10) AT THE TIME CONRETE IS PLACED, REINFORCING SHALL BE FREE OF MUD, OIL OR OTHER NONMETALLIC COATING THAT DECREASES BOND. EPOXY COATING OF STEEL REINFORCEMENT WHEN NEEDED SHALL BE IN ACCORDANCE WITH THE STANDARDS OF ACI 318-19 SECTIONS 3.5.3.7 AND 3.5.3.8.
- 11) MINIMUM REINFORCING IN ALL SLABS ON GRADE SHALL BE #4 BARS AT 16" O.C. EACH WAY AT MID-DEPTH, UNLESS NOTED OTHERWISE.

# STRUCTURAL OBSERVATION

AGREEMENT TO PERFORM STRUCTURAL OBSERVATION IN ACCORDANCE WITH SECTION 1704 OF THE CALIFORNIA BUILDING CODE.

I, THE UNDERSIGNED LICENSED PROFESSIONAL ENGINEER AGREE TO PERFORM STRUCTURAL OBSERVATION OF THE NEW RESIDENCE AT BELLA MADIERA LANE, SAN JOSE, CA. UNTIL COMPLETION OF THE PROJECT OR UNTIL SUCH TIME THAT THE DIRECTOR OF BUILDING AND SAFETY DETERMINES THAT THIS IS NO LONGER REQUIRED OR UNTIL SUCH TIME THAT I NOTIFY THE DEPARTMENT OF BUILDING AND SAFETY THAT I WILL NO LONGER BE RESPONSIBLE FOR SUCH INSPECTION.

I UNDERSTAND THAT SUCH VISUAL OBSERVATION IS FOR THE PURPOSES OF ENSURING GENERAL CONFORMANCE OF THE WORK TO THE APPROVED PLANS AND SPECIFICATIONS AT SIGNIFICANT CONSTRUCTION STAGES (AS INDICATED ON THE APPROVED PLANS) AND AT THE COMPLETION OF THE STRUCTURAL SYSTEM. I WILL PREPARE REPORTS FOR EACH ONE OF MY OBSERVATIONS TO BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL. MY REPORTS SHALL INCLUDE, BUT SHALL NOT BE LIMITED TO, THE DESCRIPTION OF THE OBSERVED WORK AND A LIST OF ANY AND ALL OBSERVED DISCREPANCIES BETWEEN THE APPROVED PLANS AND THE OBSERVED FIELD WORK, AS WELL AS METHODS USED OR STEPS TAKEN TO CORRECT SUCH DISCREPANCIES.

COMPANY: HJH ENGINEERING LICENSE NO.: 84917 EXP. DATE: 03/31/2024

CONSTRUCTION STAGES / ELEMENTS TO BE OBSERVED:

- A. BASEMENT FOUNDATION: REINFORCEMENT, STEEL BASE PLATE ANCHOR BOLTS, SHEAR WALL ANCHOR BOLTS, SLAB REINFORCEMENT DOWELS.
- B. RETAINING WALLS: BLOCK WALL REINFORCEMENT, DOWELS, ANCHOR BOLTSC. FLOOR STRUCTURAL FRAMING: GENERAL FRAMING AND SHEARWALL AND SHEAR
- TRANSFER ELEMENTS. D. ROOF STRUCTURAL FRAMING: GENERAL FRAMING AND SHEARWALL AND SHEAR TRANSFER ELEMENTS
- E. STRUCTURAL FRAMING: MOMENT FRAME, SHEAR TRANSFER CLIPS TO MOMENT FRAME, BOUNDARY NAILING

NOTE: OBSERVATION OF THE ABOVE MENTIONED CONSTRUCTION STAGES/ELEMENTS MAY REQUIRE MULTIPLE OBSERVATION VISITS WHILE CONSTRUCTION IS IN PROGRESS.

PROVIDE ENGINEER WITH A MINIMUM OF 48 HOURS NOTICE BEFORE OBSERVATION IS NEEDED. CITY INSPECTOR SHALL BE SCHEDULED A FULL DAY AFTER ENGINEER OBSERVATION. CITY INSPECTION AND ENGINEER INSPECTION SHALL NOT TAKE PLACE ON THE SAME DAY.

ANY STEEL MEMBERS REQUIRED FOR THE ABOVE MENTIONED PROJECT SHALL HAVE STEEL SHOP DRAWINGS PREPARED, COMPLETED AND DELIVERED TO THE ENGINEER OF RECORD FOR APPROVAL BEFORE ANY MEMBERS ARE FABRICATED AND DELIVERED TO THE SITE.

# SPECIAL INSPECTION

IN ADDITION TO THE REGULAR INSPECTIONS, THE FOLLOWING CHECKED ITEMS WILL ALSO REQUIRE SPECIAL INSPECTION IN ACCORDANCE WITH SEC. 1704 OF THE 2022 CALIFORNIA BUILDING CODE

- SOILS COMPLIANCE PRIOR TO FOUNDATION INSPECTION (CONTINUOUS)
- ☑ STRUCTURAL CONCRETE OVER 2500 PSI (CONTINUOUS)□ PRESTRESSED CONCRETE
- STRUCTURAL MASONRY
- FIELD WELDING (PERIODIC)
- ☑ ORDINARY MOMENT FRAME CONNECTIONS (PERIODIC)□ HIGH STRENGTH BOLTING
- EXPANSION/EPOXY ANCHORS
- □ SPRAYED ON FIRE-PROOFING
   ☑ SHEARWALL NAILING CLOSER THAN 4" O.C. (PERIODIC)

NAME(S) OF INDIVIDUAL(S) OR FIRM(S) RESPONSIBLE FOR THE SPECIAL INSPECTIONS LISTED ABOVE:

(BY ARCHITECT/OWNER)

# (BY ARCHITECT/OWNER)

DUTIES OF THE SPECIAL INSPECTORS FOR THE WORK LISTED ABOVE:

- A. VERIFY THAT ITEMS NOTED ABOVE ARE IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS INDICATED ON THE STRUCTURAL DRAWING.
- B. VERIFY THAT ITEMS NOTED ABOVE CONFORM WITH THE STANDARDS DESIGNATED BY THE UNIFORM BUILDING CODE AND ALL OTHER REQUIREMENTS SPECIFIED BY THE CITY.

# <u>CONCRETE</u>

- ) ALL APPLICABLE SECTIONS OF ACI 318 19 SHALL BE CONSIDERED AS A PART OF THESE SPECIFICATIONS. ALL CONCRETE WORK SHALL COMPLY WITH 2022 CALIFORNIA BUILDING CODE (C.B.C.) CHAPTER 19.
- 2) ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGT 2500 P.S.I. AT TWENTY-EIGHT (28) DAYS. ALL CONCRETE SHALL BE REG WEIGHT (UNLESS SPECIFICALLY NOTED OTHERWISE). CONCRETE IN GRADE SHALL BE 3000 PSI AND WITH CONTINUOUS SPECIAL DEPUTY INSPECTION
- 3) SPECIAL INSPECTION (AS REQUIRED OR SPECIFIED) SHALL CONFORM TO 2 SECTION 1704. SPECIAL INSPECTION SERVICES SHALL BE PROVIDED BY AN CERTIFIED DEPUTY INSPECTOR OR BUILDING DEPARTMENT APPROVED ENGI
- 4) TYPE 1 OR 2 PORTLAND CEMENT SHALL CONFORM TO C.B.C. SECTION 190 318–19 SECTION 26.4 STANDARD SPECIFICATION (ASTM C 150).
- 5) AGGREGATES SHALL CONFORM TO 2022 C.B.C. 1903 AND ACI 318–19 SE 26.4.2.1 MAXIMUM AGGREGATE SIZE SHALL BE 1–1/4". AGGREGATE SIZE EXPOSED CONCRETE, SUCH AS IN SLABS, SHALL NOT EXCEED 1". GRAD/ AGGREGATE SIZE SHALL BE PER ASTM C33, C117 AND C136.
- 6) WHERE NOT SPECIFICALLY DETAILED, THE MINIMUM CONCRETE COVER ON REINFORCING STEEL SHALL BE PER ACI 318-19 SECTION 20.6.1:
- A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH
- WEATHER: 3" B) CONCRETE PLACED AGAINST FORMS, BUT EXPOSED TO EARTH OR W 2".
- 7) MAXIMUM CONCRETE SLUMP SHALL BE 3 INCHES, 4 INCHES FOR CONCRESS STRUCTURAL DECKS.
- 8) ALL SLABS ON GRADE SHALL BE 5" THICK WITH #4 BARS AT 16" O.C., E AT MID DEPTH, UNLESS NOTED OTHERWISE ON PLANS. PROVIDE 10 MIL V VAPOR BARRIER PROTECTED BY SAND UNDER ALL SLABS AT LIVING AREA
- 9) ALL ANCHOR BOLTS USED IN CONCRETE CONSTRUCTION SHALL HAVE A M TOTAL EMBEDMENT AS FOLLOWS, UNLESS NOTED OTHERWISE:

5/8" DIAMETER OR SMALLER: 9" 3/4" DIAMETER: 12"

- 10) LOCATION OF ALL CONSTRUCTION JOINTS, OTHER THAN SPECIFIED, SHALL APPROVED BY THE ARCHITECT AND THE ENGINEER PRIOR TO POURING. CONSTRUCTION JOINTS SHALL BE THOROUGHLY AIR AND WATER CLEANED HEAVILY ROUGHENED SO AS TO EXPOSE COARSE AGGREGATES. ALL SURF RECEIVE CONCRETE SHALL BE MAINTAINED CONTINUOUSLY WET AT LEAST HOURS IN ADVANCE OF PLACING CONCRETE.
- 11) ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS, INSERTS, AND ANY OT HARDWARE TO BE SET INTO CONCRETE SHALL BE WELL SECURED IN POSI TO PLACING OF CONCRETE.
- 12) THE ARCHITECT, ENGINEER, AND INSPECTOR SHALL BE NOTIFIED, IN A TIM MANNER, FOR REINFORCING INSPECTION PRIOR TO THE POURING OF ANY
- 13) THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE ARCHITECT AND T ENGINEER PRIOR TO PLACING SLEEVES, PIPES, DUCTS, CHASES, CORING, OPENING ON OR THROUGH STRUCTURAL CONCRETE BEAMS, WALLS, FLOOF ROOF SLABS, UNLESS SPECIFICALLY NOTED OR DETAILED. ALL PIPES OR PASSING THROUGH CONCRETE MEMBERS SHALL BE SLEEVED WITH ANY MA NOT HARMFUL TO CONCRETE WITHIN LIMITATIONS OF THE ACI 318–19 SEC
- 14) FORMWORK DESIGN AND REMOVAL IS THE RESPONSIBILITY OF THE CONTRI-SHALL CONFORM TO 2022 C.B.C SECTION 1906.1 AND 1906.2 AND ACI 3 SECTION 26.11.1 AND 26.11.2.
- 15) FORM REMOVAL: REMOVE FORMS IN ACCORDANCE WITH THE FOLLOWING SIDE FORMS AT FOOTINGS: MINIMUM 2 DAYS.

SIDE FORMS AT FOOTINGS: MINIMUM 2 DAYS. EDGE FORMS OF SLAB ON GRADE STRIP 1: MINIMUM 1 DAY.

- 16) VIBRATE ALL CONCRETE AS IT IS PLACED WITH A MECHANICAL VIBRATOR BY EXPERIENCED PERSONNEL. THE VIBRATOR SHALL BE USED TO CONSOL CONCRETE, NOT TRANSPORT IT. REINFORCING STEEL AND FORMS SHALL N VIBRATED.
- 17) ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST THE AMERICAN CONCRETE INSTITUTE (A.C.I.) BUILDING CODE (A.C.I. 318–1 THE LATEST EDITIONS OF THE A.C.I. MANUALS OF CONCRETE PRACTICE A SPECIFICATIONS.
- 18) CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM DAYS AFTER PLACEMENT.
- 19) THE CONTRACTOR SHALL SUBMIT REQUESTS FOR THE USE OF ADMIXTURE ARCHITECT AND ENGINEER FOR THEIR REVIEW AND APPROVAL.
- 20) MIX DESIGNS SHALL BE PREPARED BY AN APPROVED TESTING LABORATOR SHALL BE SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FO APPROVAL.
- 21) ONLY ONE GRADE OF CONCRETE SHALL BE ALLOWED ON THE PROJECT SI ONE TIME.
- 22) UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE, CONSTRUCTION AN JOINTS SHALL BE PROVIDED IN ALL CONCRETE SLABS, AND SHALL BE LO SUCH THAT THE AREA WITHIN THE JOINTS DOES NOT EXCEED 400 SQUAR (20' X 20' AREA).
- 23) FOR MAT SLAB CONCRETE STRENGTH SHALL BE VERIFIED BY STANDARD ( TESTS (IN ACCORDANCE WITH 2022 C.B.C. 1905.6 MADE BY AN APPROV LABORATORY. THE CONTRACTOR SHALL MAINTAIN COPIES OF THE TEST RI THE JOB SITE AND AVAILABLE FOR REVIEW AND INSPECTION BY THE BUI OFFICIALS. MAKE 3 TEST CYLINDERS FOR EACH DAY'S POUR. TEST EACH CYLINDERS AS FOLLOWS: 1 AT 7 DAYS, AND 2 AT 28 DAYS.
- 24) SEE ARCHITECTURAL PLANS FOR LOCATIONS OF ALL DIMENSIONS, SLAB DEPRESSIONS, SLOPES, CURBS, AND CONTROL JOINTS.
- 25) ALL "DRYPACK" CALLED FOR UNDER BASEPLATES SHALL BE PRE-MIX SI CONCRETE - 5000 PSI GROUT. THIS IS A DRY FACTORY-BLENDED CONC CONSISTING OF TYPE II PORTLAND CEMENT, SAND AND 3/8" AGGREGATE DRYPACK SHALL BE PLACED UNDER CONTINUOUS DEPUTY INSPECTION.
- 26) CEMENT USE IN FOUNDATION MIX DESIGN IS REDUCED. TIER 2: NOT LESS REDUCTION IN CEMENT USE. FLY ASH SHALL BE USED IN CONCRETE POUF GRADE INCLUDING FOOTINGS, PILES, RETAINING WALL FOOTINGS AND SLAB GRADE. FLY ASH SHALL CONSTITUTE NO MORE THAN 25 % OF THE TOTA OF CEMENTITOUS MATERIALS PER ACI 318–19 SECTION 19.3.3.4 AND MUS WITH ASTM C 618 STANDARD SPECIFICATIONS FOR COAL FLY ASH. FLY A NOT BE USED IN CONCRETE MEMBERS ABOVE GRADE (I.E., COLUMNS, DEC WALLS, ETC.) AND MAY NOT BE USED IN RETAINING WALL STEM. CONC USING FLY ASH NEEDS A LONGER CURING TIME OF 56 DAYS TO REACH E COMPRESSIVE STRENGTH.

# FOUNDATIONS

1) SEE SOIL REPORT BY C2 EARTH INC., REPORT NUMBER 23062C-01L2, DATED

CALIFURNIA		BEARING PRESSURE = 4,00 STRUCTURAL DRAWINGS.				
TH (F'C) OF ULAR BEAMS	2)	CONTRACTOR SHALL VERIFY REPORT ANY DISCREPANCIE WORK.				
2022 CBC N I.C.B.O. NEER.	3)	NO DEVIATION FROM STRUC ENGINEER. APPROVAL BY C DEVIATE FROM PLANS OR S	ITY INSPECTO	R DOES NOT CONSTITUTE A		
03 AND ACI CTION FOR ATION OF	4) ALL CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH (F'C) OF 4000 P.S.I. AT TWENTY-EIGHT (28) DAYS. ALL CONCRETE SHALL BE REGULAR WEIGHT (UNLESS SPECIFICALLY NOTED OTHERWISE). CONCRETE IN GRADE BEAMS AND PILES SHALL BE 4000 PSI AND WITH CONTINUOUS SPECIAL DEPUTY INSPECTION. CONCRETE IN RETAINING WALLS SHALL BE 4000 PSI AND WITH CONTINUOUS SPECIAL DEPUTY INSPECTION.					
OR	5)	REINFORCING STEEL: ASTM GRADE FOR LARGER BARS, LINES TO BE 40 DIAMETER PERPENDICULAR FOOTINGS TYPICAL, 24'MIN. SPLICE.	CLEAN AND FOR 2'-0" MIN	RUST FREE. ÄAPS AT SPLIC IIMUM UNLESS OTHERWISE I	ES AND POUR NOTED ON PLANS.	
EATHER:	6)	CARRY ALL FOUNDATIONS 1 OR BEDROCK (AS PER STRI APPROPRIATE BUILDING OFF	UCTURAL DRA			
TE EACH WAY, ISQUEEN AS.	7)	FOOTING SHALL BE POURED POSSIBLE. SIDES AND BOT PRIOR TO PLACING CONCRE REQUIRED TO PRECLUDE ST DESIGN AND REMOVAL IS T CONFORM TO 2022 CBC SE 26.11.1 AND 26.11.2.	TOMS OF DRY TE. CONVERS ANDING WATE HE RESPONSIE	EXCAVATIONS MUST BE M SLY, DE-WATER OVER-WET R. WHEN FORMWORK IS N BILTY OF THE CONTRACTOR	OISTENED JUST EXCAVATIONS AS ECESSARY, THE AND SHALL	
<b>IINIMUM</b>	8)	ALL FOUNDATION EXCAVATION APPROPRIATE BUILDING OFF	ICIAL AND GE	OTECHNICAL CONSULTANT I		
BE	9)	CEMENT: TESTED, TYPE I P 1903 AND ACI 318–19 SEC			C.B.C. SECTION	
AND FACES TO THREE	10)	AGGREGATES SHALL CONFO 26.4.2.1 MAXIMUM AGGREGA EXPOSED CONCRETE, SUCH AGGREGATE SIZE SHALL BE	ATE SIZE SHAI AS IN SLABS	L BE 1-1/4". AGGREGATE, SHALL NOT EXCEED 1".	SIZE FOR	
THER ITION PRIOR	11)	VIBRATE CONCRETE AS IS I VIBRATOR OPERATED BY EX TO CONSOLIDATE THE CONC REINFORCING STEEL AND FO	(PERIENCED PI CRETE NOT MO	ERSONNEL. THE VIBRATOR IVE OR SPREAD THE CONCI	SHALL BE USED	
IELY CONCRETE.	12)				NIMUM OF FIVE	
THE AND RS AND CONDUITS ATERIAL CTION 6.3.	13)		EACH WAY - 2" SAND LA	· PROVIDE 1-1/2" COVER [·] YER ON 10 MIL VISQUEEN V	TO TOP OF SLAB. /APOR BARRIER,	
ACTOR AND 18—19 SCHEDULE:	14)		NIMUM ANCHOI E AND SPACIN HEDULE. ONE S. BOLTS / H	R BOLTS SHALL BE 5/8"DI, IG NOT MORE THAN 38 INC E SILL PLATE BOLT SHALL	A. WITH 9" HES ON CENTER BE LOCATED 12 <b>"</b>	
OPERATED	15)	ALL CAST-IN-PLACE HARD BE SECURED IN PLACE PRIC TO VERIFY LOCATIONS. NO	OR TO FOUND	ATION INSPECTION. FRAMING	G CONTRACTOR	
NOT BE	16)	SEE ARCHITECTURAL PLANS DEPRESSIONS, SLOPES, CUR			LAB	
EDITION OF 19) AND ND			•	anta Clara ctural Observation		
OF FIVE				RVATION PROGRA	M	
S TO THE		STR	UCTURAL	OBSERVER		
RY AND R	PR	BELLA M SAN JOS OJECT ADDRESS: <u>APN: 65</u>	IADERIA LANE SE, CA 54-64-012	PERMIT APPL. NC	).:	
ITE AT ANY	De	scription of Work: <u>NEW_RESID</u>	ENTIAL			
ND CONTROL	Ow	/ner:	Architect: <u>ST</u>	EVE_BENZINGEngineer:	HJH ENGINEERING	
CATED RE FEET				DBSERVATION ns are required)		
CYLINDER	Fin	m or Individual to be responsi	-			
ED TESTING	Nan	ne: Jack Hadjian		, 	Registration: 84917	
ILDING BATCH OF		FOUNDATION	WALL	FRAME	DIAPHRAGM	
		Footing, Stem Walls, Piers		X Steel Moment Frame		
		Mat Foundation	X Masonry	Steel Braced Frame	Steel Deck	
PEC CRETE MIX E. THIS	<b>X</b>	<del>Baisson, Piles,</del> Grade Beams Stepping, Retaining Foundation Hilloide Special Anchere	X Wood □ Others:	Concrete Moment Frame     Masonry Wall Frame	X Wood □ Others:	
		Others:		X Others: HFX		
THAN 25% RED ON 3S ON AL WEIGHT ST COMPLY ASH MAY CKS, BEAMS,	I, tł	CLARATION BY OWNER ne Owner of the project, decla the Structural Observer.	are that the ab		is hired by me to	
CRETE						

DECLARATION BY ARCHITECT OR ENGINEER OF RECORD (required if the Structural Observer is different from the Architect or Engineer of Record) I, the Architect or Engineer of record for the project, declare that the above listed firm or individual is designated by me to be responsible for the Structural Observation.

# GENERAL (CONTINUED)

- 4) ALL INFORMATION ON EXISTING CONDITIONS SHOWN ON THE DRAWINGS ARE BASED ON BEST PRESENT KNOWLEDGE AVAILABLE, BUT WITHOUT GUARANTEE OF ACCURAC' THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS AT THE SITE. BEFORE FINAL BIDDING AND/OR DURING CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPENCIES BETWEEN THE PLANS AND THE CONDITIONS AT THE SITE, OR BETWEEN THE STRUCTURAL AND ARCHITECTURAL DRAWINGS. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, OR WHERE THERE APPEARS TO BE A DISCREPANCY BETWEEN THE DRAWINGS (ARCHITECTURAL AND/OI STRUCTURAL) AND THE CONDITION IN THE FIELD, THE ARCHITECT AND ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUING WITH WORK / FINAL PRICING.
- THERE SHALL BE NO DEVIATION FROM THE PLANS, DETAILS, NOTES, SPECIFICATIONS WITHOUT THE WRITTEN APPROVAL OF THE ENGINEER.
- 6) DO NOT SCALE STRUCTURAL PLANS OR DETAILS. ONLY WRITTEN DIME BE USED.
- 7) THE FOLLOWING NOTES, TYPICAL DETAILS AND SCHEDULES SHALL APP PHASES OF THIS PROJECT UNLESS NOTED OR SHOWN OTHERWISE ON TYPICAL DETAILS MAY NOT BE REFERENCED AND WILL APPLY TO SIM CONDITIONS.
- SPECIFIC NOTES AND DETAILS SHALL TAKE PRECEDENCE OVER GENER TYPICAL DETAILS.
- 9) THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRU CAUSE DISTRESS OF THE STRUCTURE.
- 10) ALL WORK SHALL CONFORM TO THE BEST PRACTICE PREVAILING IN T TRADES COMPRISING THE WORK. THE CONTRACTOR SHALL BE RESPON COORDINATING THE WORK OF ALL TRADES.
- 11) THESE NOTES, DETAILS, DRAWINGS AND SPECIFICATIONS (CONTRACT I REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MI CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHOD SEQUENCES AND PROCEDURES, INCLUDING TEMPORARY SHORING AND
- 12) THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR INFORM COVERED BY THE DRAWINGS.
- 13) THE CONTRACTOR SHALL PROVIDE THE DESIGN, MATERIALS, AND FAB ALL TEMPORARY BRACING AND SHORING FOR ALL STRUCTURAL MEMB REQUIRED FOR STRUCTURAL STABILITY OF THE STRUCTURE DURING A THE CONSTRUCTION.
- 14) THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE P ALIGNMENT OF THE STRUCTURE AFTER THE INSTALLATION OF ALL ST FINISH MATERIALS. THIS SHALL INCLUDE ANY NECESSARY PRE-LOADI STRUCTURE TO DETERMINE FINAL POSITION OF THE COMPLETED WORK
- 15) OBSERVATION VISITS TO THE PROJECT SITE BY FIELD REPRESENTATIV ENGINEER (SUPPORT SERVICES) SHALL NOT INCLUDE INSPECTIONS OF PROTECTIVE MEASURES, NOR CONSTRUCTION PROCEDURES, TECHNIQUI ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER DURING ANY CONSTRUCTION, SHALL BE DISTINGUISHED FROM CONTINUOUS AND DE INSPECTION SERVICES (AS REQUIRED BY ANY REGULATING GOVERNME I.E. LOCAL BUILDING DEPARTMENT) PROVIDED BY OTHERS. THESES SU SERVICES, WHETHER MATERIAL OR WORK, ARE PERFORMED SOLELY FO PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CON THE CONSTRUCTION DOCUMENTS, BUT DO NOT GUARANTEE THE CONT PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF
- 6) COORDINATION WITH ARCHITECTURAL PLANS; THE ARCHITECT SHALL O STRUCTURAL PLANS WITH ALL OTHER PROFESSIONAL DISCIPLINES INC ARCHITECTURAL PLANS, ANY CONFLICTS BETWEEN THE STRUCTURAL I OTHER CONSULTANTS SHALL BE BROUGHT TO THE ATTENTION OF THI THE DESIGN PHASE.
- 17) PROVIDE OPENINGS AND SUPPORTS AS REQUIRED PER TYPICAL DETAI FOR MECHANICAL AND ELECTRICAL EQUIPMENT, VENTS, DUCTS, PIPINO MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE PROPERLY "SWA AGAINST ALL LATERAL (WIND, SEISMIC, VIBRATION, ETC.) FORCES.
- 18) PRIOR TO COMMENCING WITH THE CONSTRUCTION, THE CONTRACTOR TO ARCHITECTURAL DRAWINGS TO COORDINATE WITH STRUCTURAL DR ANY DISCREPANCY BETWEEN THESE DRAWINGS SHALL BE REFERRED ENGINEER FOR CLARIFICATION BEFORE START OF CONSTRUCTION.
- 19) IN THE EVENT THAT CERTAIN FEATURES OF THE CONSTRUCTION ARE SHOWN ON THE DRAWINGS OR CALLED FOR IN THE GENERAL NOTES SPECIFICATIONS, THEN THEIR CONSTRUCTION SHALL BE OF THE SAME FOR SIMILAR (SIM.) CONDITIONS THAT ARE SHOWN OR CALLED FOR.
- 20) THE CONTRACTOR SHALL HAVE A COPY OF THE PROJECT SOILS / GI FOUNDATION INVESTIGATIONS ON THE JOB SITE AT ALL TIMES. THESE SHALL BE CONSIDERED AS A PART OF THESE PLANS AND THE CONT INCORPORATE ALL RECOMMENDATIONS/REQUIREMENTS OF SAID REPOR CONSTRUCTION OF THIS PROJECT.
- 21) ASTM DESIGNATIONS AND STANDARDS, ICBO REPORTS, AND CITY OF (COLA) RESEARCH REPORTS (RR) REFER TO THE LATEST AMENDMENT
- 22) ONLY "BUILDING DEPARTMENT APPROVED" STRUCTURAL WORKING DRA ALL OTHER CONSTRUCTION DOCUMENTS) ARE PERMITTED TO BE USED CONSTRUCTION ON THIS PROJECT. ALL OTHER DRAWINGS ARE OBSOLD NOT PERMITTED ON THE JOB SITE, NOR SHALL THEY BE USED FOR A CONSTRUCTION PURPOSES (INCLUDING THE CALCULATION OF ALL FINA AND BIDS AND CONTRACTS). ANY CONTRACTOR USING UNAPPROVED BE HELD SOLELY RESPONSIBLE FOR ALL WORK NOT PERFORMED IN A WITH THE "APPROVED" DRAWINGS.
- 23) THESE PLANS REPRESENT THE STRUCTURAL DESIGN ONLY. NO INFOR WARRANTY IS PROVIDED FOR ARCHITECTURAL INFORMATION, INCLUDIN LIMITED TO, WATERPROOFING DETAILS, DRAINAGE, VENTILATION OF FR ARCHITECTURAL DIMENSIONS.
- 24) ALL REPORTS BY THE SPECIAL DEPUTY INSPECTOR SHALL BE SUBMIT ENGINEER AND ARCHITECT.
- 25) NO WARRANTY: IN PERFORMANCE OF PROFESSIONAL SERVICES, THI SHALL USE THAT DEGREE OF CARE AND SKILL ORDINARILY EXERCISED SIMILAR CIRCUMSTANCES BY OTHER MEMBERS OF THE PROFESSION IN AT THE TIME THE SERVICES ARE RENDERED. NO OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE IN CONNECTION WITH RENDERING OF SERVICES.
- 26) STRUCTURE TO BE BUILT PER PERMITTED PLANS. IF ANY DISCREPAN BETWEEN EXISTING CONDITIONS IN THE FIELD AND EXISTING CONDITION PLANS, THE CONTRACTOR SHALL CONTACT THE ENGINEER AND ARCH WRITTEN FORM EXPLAINING THE DISCREPANCY. ALL STRUCTURAL CO QUESTIONS ARE TO BE IN WRITTEN FORM AND SENT TO THE ENGINEE AT HJH ENGINEERING AND ALSO SENT TO THE ARCHITECT OF RECORD GENERAL CONTRACTOR AND/OR SUBCONTRACTORS.
- 27) STRUCTURAL OBSERVATION: WHEN THE ENGINEER OF RECORD IS REPERFORM STRUCTURAL OBSERVATIONS IN THE FIELD DURING CONSTRUCTURAL OBSERVATION NOTES) THE FIELD SHALL NOTIFY THE ERECORD AT LEAST 48 HOURS IN ADVANCE OF THE REQUIRED STRUCTORS OBSERVATION. CITY INSPECTION SHALL BE SCHEDULED ONE DAY AFTER STRUCTURAL OBSERVATION.

ND/OR DURING NY SITE, OR		
	SEISMIC IMPORTANCE FACTOR, I: 1.0	
ANY CONDITION	RISK CATEGORY: 2	
E THERE CTURAL AND/OR	SEISMIC-FORCE-RESISITNG SYSTEM(S): LIGHT FRAMED WALLS SHEATHED WITH WOOD STRUCTURAL PANELS RATED FOR	,
D ENGINEER NG.	SHEAR RESISTANCE	,
AND	ORDINARY MOMENT FRAME (OMF) – GRID LINE 1, 1.2, 2, AND D	
ENSIONS SHALL	RESPONSE MODIFICATION FACTOR, R: 6.5 (LIGHT FRAMED SHEAR WALLS)	
INSIONS SHALL	3 (OMF)	
PLY TO ALL PLANS.	REDUNDANCY FACTOR, R: 1.3	
ILAR	DEAD LOADS: ROOF: 11.0 PSF (MAX. LIGHT WT. CONC. ROOF TILE WEIGHT = 1	75 PSF)
RAL NOTES AND	CEILING: 11.0 PSF FLOOR: 20.0 PSF	
	DECK: 33.0 PSF	
JCTURE OR	LIVE LOADS ROOF: 20.0 PSF FLOOR: 40.0 PSF	
THE VARIOUS	DECK: 60.0 PSF	
NSIBLE FOR	EQUIVALENT LATERAL FORCE PROCEDURE: SHORT SPECTRAL RESPONSE ACCELERATION, SS: 2.267	
DOCUMENTS) ETHOD OF	1 SEC. SPECTRAL RESPONSE ACCELERATION, S1:0.874SHORT SPECTRAL RESPONSE COEFFICIENT, SDS:1.8141 SEC. SPECTRAL RESPONSE COEFFICIENT, SD1:0.001	
E WORK AND DS, TECHNIQUES,	1 SEC. SPECTRAL RESPONSE COEFFICIENT, SD1: 0.991 SEISMIC RESPONSE COEFFICIENT, CS= 0.279 W	
SAFETY.	DESIGN BASE SHEAR, $V= 0.254$ W (ASD)	
IATION NOT	WIND DESIGN PARAMETERS:	
RICATION OF BERS AS	BASIC WIND SPEED (V) : 95 MPH (ASCE 7–16 FIG. 2 EXPOSURE CATEGORY: C (ASCE 7–16 SEC. 26.7.3)	
ALL PHASES OF	RISK CATEGORY: 2 (ASCE 7–16, TABLE 1.5–	
PROPER	TOPOGRAPHIC FACTOR (KZT):1.0ADJUSTMENT FACTOR (λ):1.4MEAN DOOD WEIGHT (μ):70 FT	
RUCTURAL AND NG OF THE	MEAN ROOF HEIGHT (H): 30 FT ROOF SLOPE (O): 22.6	00.47.4)
K. YES OF THE	INTERNAL PRESSURE COEFFICIENT (GCPI): +/- 0.18 (ASCE 7-16 FIG. SIMPLIFIED HORIZONTAL PRESSURE (PS30): 18.86 PSF DESIGN HORIZONTAL PRESSURE (PS): 26.41 PSF (15.8 PSF ASD)	26.13-1)
SAFETY OR ES OR METHODS.	DESIGN HURIZUNTAL PRESSURE (FS): 20.41 FSF (13.8 FSF ASD)	
PHASE OF THE TAILED		
NTAL AGENCY, JPPORT	1) ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE MINIMUM ST	ANDARDS
OR THE NFORMANCE TO	OF THE 2021 EDITION OF THE IBC AND THE 2022 CALIFORNIA BUILDING ( ALL OTHER REGULATING AGENCIES EXERCISING AUTHORITY OVER ANY POP	CODE – AND
IRACTOR'S CONSTRUCTION.	THE WORK.	
COORDINATE CLUDING	2) THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SPECIFICATIONS ( DOCUMENTS) AND VERIFY ALL DIMENSIONS AND CONDITIONS AND REPORT DISCREPANCIES (BETWEEN ARCHITECTURAL AND STRUCTURAL OR BETWEEN	ANY
PLANS AND	STRUCTURAL AND MEP OR BETWEEN STRUCTURAL AND THE CONDITIONS I	N THE
E ENGINEER IN	EIFTU) TO THE ENGINEER AND ARCHITECT REFORE PROCEEDING WITH CON	STRUCTION
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BUILDING AND SITE INFORMATION

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# MASONRY (CONTINUED)

- I) GROUTING OPERATIONS, MAXIMUM GROUT POUR HEIGHT, AND USE OF CLEAN-OUTS SHALL CONFORM TO 2022 C.B.C SECTION 2104.1.2 AND ACI 530.1-11 SECTION 1.20. CLEANOUTS (IF REQUIRED) SHALL BE PROVIDED BY SUITABLE 'C' OPENINGS IN THE FACE SHELLS IN THE BOTTOM COURSE OF EACH CELL TO BE GROUTED. OR OTHER APPROVED LOCATIONS. THE CLEAN-OUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING.
- J) ALL CELLS SHALL BE FILLED SOLIDLY WITH GROUT UNLESS NOTED OTHERWISE. GROUT SHALL BE A WORKABLE MIX SUITABLE FOR PUMPING WITHOUT SEGREGATION AND SHALL BE THOROUGHLY MIXED. GROUT SHALL BE PLACED BY PUMPING OR AN APPROVED ALTERATIVE METHOD AND SHALL BE PLACED BEFORE INITIAL SET OR HARDENING OCCURS. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING AND RECONSOLIDATED AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY HAS BEEN LOST. THE GROUTING OF ANY SECTION OF A WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.
- K) WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT APPROXIMATELY 1 1/2" ABOVE OR BELOW A BED JOINT.
- L) ALL REINFORCING SHALL BE IN PLACE AND SECURED PRIOR TO GROUTING. REINFORCEMENT SHALL BE PLACED AND SECURED IN CONFORMANCE WITH 2022 CBC AND ACI 530.1-11.
- 6) FOR CONSTRUCTION DURING HOT WEATHER WHEN AMBIENT TEMPERATURE EXCEEDS 100 DEGRESS F . OR EXCEEDS 90 DEGRESS F WITH A WIND VELOCITY OF GREATER THAN 8 MPH PREPARATION AND CONSTRUCTION MUST CONFORM TO 2022 C.B.C. SECTION 2104.4, ARTICLE 1.8D OF ACI 530.1-11.
- 7) BLOCK WALLS SHALL HAVE A MINIMUM OF #5 @ 24" O.C. VERTICAL STEEL AND #4 @ 24" OC. HORIZONTAL STEEL, UNLESS NOTED OTHERWISE ON PLANS.
- 8) ALL WALL CORNERS AND ENDS, AND DOOR AND WINDOW JAMBS SHALL HAVE 2-#5 BARS AS JAMB STEEL MINIMUM UNLESS NOTED OTHERWISE.
- 9) ALL JAMB REINFORCEMENT SHALL DOWEL AND HOOK INTO THE FOOTING OR DECK BELOW WITH LAP BARS OF THE SAME DIAMETER.
- 10) BLOCK RETAINING WALLS MAY BE BACKFILLED BEFORE THE GROUT IS 28 DAYS OLD IF TEST RESULTS SUBSTANTIATE THAT THE 2000 PSI COMPRESSIVE STRENGTH HAS BEEN REACHED.
- 11) MASONRY WALLS DESIGNED TO BE EVENTUALLY RESTRAINED AT THE TOP (I.E. BY A CONCRETE DECK OR FLOOR FRAMING) SHALL REQUIRE BRACING CLOSE TO THE TOP OF THE WALL IF BACKFILLED PRIOR TO THE CONCRETE DECK/FLOOR FRAMING INSTALLATION.
- 12) REINFORCING BARS LARGER THAN #8 ARE NOT PERMITTED UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE. BAR DIAMETER SHALL NOT EXCEED 1/8 OF WALL THICKNESS AND SHALL NOT EXCEED 1/4 OF THE LEAST DIMENSION OF THE CELL, COURSE OR COLLAR JOINT IN WHICH IT IS PLACED (2022 CBC SECTION 2107.4).
- 13) REINFORCEMENT LARGER THAN #9 SHALL BE SPLICED USING MECHANICAL CONNECTIONS IN ACCORDANCE WITH ACI 530 SCTION 2.1.8.7 (2022 CBC 2107.3).
- 14) CONTINUOUS SPECIAL INSPECTION AS REQUIRED OR SPECIFIED SHALL CONFORM TO 2022 CBC SECTION 2105.3 AND SECTION 1705.4. SPECIAL INSPECTION SERVICES SHALL BE PROVIDED BY AN I.C.B.O. CERTIFIED DEPUTY INSPECTOR OR BUILDING DEPARTMENT APPROVED ENGINEER.
- 15) AT ALL SPLICES IN REINFORCING (STAGGER SPLICES), LAP (MINIMUM) BARS 40 BAR DIAMETERS. THE MINIMUM RADIUS OF BEND FOR REINFORCING STEEL ( MEASURED ON THE INSIDE OF THE BAR) SHALL BE AS FOLLOWS:
- #3 := 1 1/5" #4 := 2" #5 = 2.5**"** #6 = 4.5**"**
- 16) ALL HORIZONTAL ANCHOR BOLTS USED IN CONCRETE BLOCK CONSTRUCTION SHALL HAVE A MINIMUM TOTAL EMBEDMENT AS FOLLOWS: 5/8 DIA. OR SMALLER = 4" EMBEDMENT, 3/4" DIA = 5" EMBEDMENT, 7/8" DIA = 6" EMBEDMENT.
- 17) UNLESS SPECIFICALLY DETAILED OR NOTED OTHERWISE. VERTICAL CONTROL JOINTS SHALL BE PROVIDED IN ALL CONCRETE BLOCK WALLS PER THE LESSER OF: 1)25[']-0" 0.C. 2)LENGTH TO HEIGHT RATIO OF 1.5. (I.E. IF HEIGHT IS 8'-0" HIGH, THE SPACING WOULD BE 12 - 0", THE GOVERNING SPACING WOULD BE 12 - 0") CONTROL JOINTS SHALL EXTEND THE FULL HEIGHT OF THE WALL.
- LOCATION OF ALL CONSTRUCTION/CONTROL JOINTS, OTHER THAN THOSE SPECIFIED, SHALL BE APPROVED BY THE ARCHITECT AND THE STRUCTURAL ENGINEER PRIOR TO PLACEMENT.
- 18) CONCRETE BLOCK WALLS (OF ONE STORY OR TALLER) SHALL BE SECURELY BRACED AND SHORED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION
- 19) REINFORCEMENT SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING USING WIRE POSITIONERS AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.REINFORCEMENT PLACEMENT PER ACI 530-11 SECTION 1.16.3.

# PREFABRICATED WOOD ROOF TRUSSES

- DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" AND THE "GUIDELINES FOR METAL PLATE CONNECTED WOOD TRUSSES" BY THE AMERICAN FOREST AND PAPER ASSOCIATION.
- 2) THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, ALONG WITH A COMPLETE SET OF STRUCTURAL DESIGN CALCULATIONS FOR REVIEW PRIOR TO FABRICATION. DESIGN OF THE ROOF TRUSSES SHALL BE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER. SHOP DRAWINGS SHALL BE STAMPED BY AN ENGINEER REGISTERED IN THE STATE OF THE PROJECT.
- 3) CONNECTOR PLATES USED BY THE TRUSS MANUFACTURER SHALL BE APPROVED BY A CURRENT ICC RESEARCH RECOMMENDATION. A COPY OF THE RECOMMENDATION IS TO BE INCLUDED AS PART OF THE SHOP DRAWING SUBMITTAL.
- 4) ROOF TRUSSES SHALL BE DESIGNED FOR THE FOLLOWING MINIMUM DEAD LOADS: TOP CHORD: [17] POUNDS PER SQ. FOOT. BOTTOM CHORD: [11] POUNDS PER SQ. FOOT. [INCLUDING A SINGLE 200 POUND POINT LOAD APPLIED WHERE A MAXIMUM
  - STRESS CONDITION WILL OCCUR.] DESIGN BOTTOM CHORD FOR POINT LOAD IN ACCORDANCE WITH ASCE 7.
- 5) JOIST DEFLECTION REQUIREMENTS: LIVE LOAD = L/360, TOTAL LOAD = L/240, L= TRUSS SPAN IN INCHES.
- 6) TRUSSES SHALL BE DESIGNED FOR A NET UPLIFT PRESSURE OF [10] PSF.
- 7) LUMBER GRADES: MINIMUM GRADE = NO. 2, D.FIR/LARCH, S.DRY, Fb=1250.
- 8) THE DESIGN OF THE TRUSSES SHALL INCLUDE EFFECTS OF ANY ECCENTRICITY IN THE JOINTS.
- 9) BOTTOM CHORD BRACING NOT SHOWN ON PLANS SHALL BE THE MINIMUM REQUIRED. TRUSS MANUFACTURER TO PROVIDE ADDITIONAL LINES AS REQUIRED PER TRUSS DESIGN. ALL WEB MEMBERS IN COMPRESSION SHALL BE LATERALLY BRACED, UNLESS THE STRUCTURAL CALCULATIONS PROVE THAT NONE IS REQUIRED.

# MANUFACTURED LUMBER (TJI, PSL, LVL, LSL)

- SCOPE: THIS WORK INCLUDES THE COMPLETE FURNISHINGS AND INSTALLATION OF ALL WOOD WEB JOISTS (TJI), PARALLEL STRAND LUMBER (PSL) BEAMS, LAMINATED VENEER LUMBER (LVL) AND TIMBERSTRAND LUMBER (LSL) MANUFACTURED BY WEYERHAEUSER ILEVEL (OR APPROVED EQUIVALENT) AS SHOWN ON THE DRAWINGS.
- CODE APPROVALS: THESE PRODUCTS SHALL BE DESIGNED AND MANUFACTURED TO THE STANDARDS SET FORTH IN THE INTERNATIONAL CODE COUNCIL (ICC) EVALUATION SERVICE, INC. REPORT NO. ESR -1387 AND REPORT NO. ESR-1153
- PRODUCT MATERIALS SHALL COMPLY WITH ICC REPORT NO. ESR -1387 AND NO. 3) ESR-1153. MEMBERS SHALL BE MANUFACTURED FROM STRANDS OF WOOD FIBER IN A CONTINUOUS PROCESS WITH ALL STRANDS ORIENTED TO THE LENGTH OF THE MEMBER AND THEN FED INTO A PRESS IN THE DESIRED LAY-UP PATTERN. ALL MEMBERS ARE TO BE FREE OF FINGER JOINTS OR SCARFS OR MECHANICAL CONNECTIONS IN FULL LENGTH MEMBERS. LVL WOOD VENEERS SHALL BE ULTRASONICALLY GRADED OR GRADED BY OTHER ADVANCED GRADING SYSTEMS. WEST COAST MICROLLAM 1.9 E SHALL BE USED. ADHESIVES SHALL BE OF THE WATERPROOF TYPE CONFORMING TO THE REQUIREMENTS OF ASTM D-2559.
- 4) FABRICATION: MEMBERS SHALL BE MANUFACTURED IN A PLANT APPROVED FOR FABRICATION BY THE BUILDING CODE AND UNDER THE SUPERVISION OF AN APPROVED THIRD PARTY INSPECTION AGENCY. PRODUCT TO BE FABRICATED IN AN LADBS LICENSED FABRICATOR'S SHOP. IT SHALL BE MANUFACTURED IN A CONTINUOUS PROCESS WITH ALL GRAIN PARALLEL WITH THE LENGTH OF THE MEMBERS. IDENTIFICATION: EACH OF THE JOISTS SHALL BE IDENTIFIED BY A STAMP INDICATING THE TYPE, NER REPORT NUMBER, MANUFACTURERS NAME, PLANT NUMBER, AND THE INDEPENDENT INSPECTION AGENCY'S LOGO.
- ERECTION AND INSTALLATION: IF STORED PRIOR TO ERECTION, MEMBERS SHALL BE 5) PROTECTED FROM THE WEATHER. IT SHALL BE ERECTED AND INSTALLED IN ACCORDANCE WITH THE PLANS, MANUFACTURER SPECIFICATIONS AND ANY OTHER DRAWINGS AND INSTALLATION SUGGESTIONS WHICH MAY BE PROVIDED. TEMPORARY CONSTRUCTION LOADS WHICH CAUSE STRESSES BEYOND DESIGN LIMITS ARE NOT PERMITTED. HOLES, CUTS, OR NOTCHES NOT PREVIOUSLY APPROVED BY MANUFACTURER AND/OR ENGINEER SHALL NOT BE PERMITTED.
- PROVIDE SOLID BLOCKING AT SHEAR WALLS AS PER TYPICAL SHEAR TRANSFER 6) DETAILS ON PLANS. THIS BLOCKING SHALL BE LSL MATERIAL.
- 7) JOISTS ARE TO BE BLOCKED AT SPANS PER MANUFACTURER'S RECOMMENDATIONS.
- 8) THE PRODUCTS DELIVERED SHALL BE FREE FROM MANUFACTURING ERRORS OR DEFECTS IN WORKMANSHIP AND MATERIAL. FIRE RATING/SOUND RATING: FIRE AND SOUND RATINGS ARE TO BE ESTABLISHED IN ACCORDANCE WITH ASSEMBLIES AS DETAILED IN ICC REPORT NO. ESR-1153.
- ALTERNATES AND/OR EQUALS: DUE TO THE CUSTOMIZED DETAILING AND 9) ENGINEERING CHARACTERISTIC OF THE ROOF AND/OR FLOOR FRAMING ASSEMBLY, IT IS A REQUIREMENT THAT WEYERHAEUSER ILEVEL BE USED IN THE "BASE" BID. OTHER MANUFACTURERS' BIDS ARE TO BE LISTED IN THE ALTERNATE SECTION OF YOUR PROPOSAL. ALL FRAMING PLANS, DETAILING, AND CALCULATIONS FOR THE ALTERNATE BIDS WILL BE REVIEWED BY THE OWNER, ARCHITECT, AND ENGINEER FOR STRUCTURAL PERFORMANCE, POSSIBLE CONFLICTS WITH RELATED TRADES, AND COMPATIBILITY WITH THE OVERALL BUILDING REQUIREMENTS AND BUILDING CODE.

# MASONRY

- ALL CONCRETE BLOCK CONSTRUCTION SHALL BE SOLID GROUTED UNLESS NOTED OTHERWISE. CONSTRUCTION SHALL COMPLY WITH 2022 CBC SECTIONS 2104.1.1 THROUGH 2104.4 AND WITH ACI 530.1-11.
- CONCRETE BLOCK UNITS:
- A) CONFORM TO 2022 C.B.C. SECTION 2103.1 AND ASTM C 90, HOLLOW LOAD BEARING CONCRETE UNITS. B) CONCRETE BLOCK UNIT TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF (FM) OF
- 1,500 PSI C) OPEN-END MASONRY UNITS (SPEED BLOCK) ARE ACCEPTABLE WHEN NEEDED.
- MORTAR: 3) A)MORTAR SHALL BE TYPE 'M' OR 'S' AND SHALL CONFORM TO ASTM C 270 AND ARTICLES 2.1 AND 2.6A OF ACI 530.1-11 (2022 CBC SECTION 2103.9). B)MORTAR SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 1800 P.S.I. AT 28 DAYS.
- GROUT:
- A) GROUT SHALL COMPLY WITH ARTICLE 2.2 OF ACI 530.1 (2022 CBC SECTION 2103.13). B) GROUT SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 2000 P.S.I. AT 28 DAYS.
- REQUIREMENTS FOR CONCRETE BLOCK CONSTRUCTION SHALL CONFORM TO THE FOLLOWING: A) CONCRETE BLOCK CONSTRUCTION SHALL CONFORM TO 2022 C.B.C. SECTION 2104
- AND ACI 530.1-11. B) EVERY OPENING (EXCEEDING 24" IN EITHER DIRECTION) SHALL HAVE A MINIMUM OF 2-#5 DIRECTLY ABOVE, AND BELOW (UNLESS AT THE FOUNDATION) AND ADJACENT TO BOTH SIDES. REINFORCING BARS SHALL EXTENT A MINIMUM OF 24" PAST EDGE OPENING.
- C) AT THE ENDS OF ALL WALLS THERE SHALL BE A MINIMUM OF 2-#5 VERTICAL.
- D) AT THE TOP OF ALL WALLS SHALL BE A MINIMUM OF 2-#4 HORIZONTALLY. E) DOWEL CONCRETE BLOCK WALLS AND COLUMNS SUPPORTING CONCRETE WITH BARS OF THE SAME SIZE AND SPACING AS VERTICAL. SEE NOTES FOR MINIMUM LENGTH OF SPLICE.
- F) BOND SHALL BE PROVIDED BY LAPPING UNITS IN SUCCESSIVE VERTICAL COURSES (RUNNING BOND). STACK BOND OR MECHANICAL ANCHORAGE SHALL NOT BE USED UNLESS SPECIFICALLY NOTED OR DETAILED.
- G) AT THE TIME OF LAYING ALL MASONRY, UNITS SHALL BE FREE OF EXCESSIVE DIRT AND DUST. HOLLOW UNITS SHALL BE PLACED SUCH THAT FACE OF SHELLS OF BED JOINTS ARE FULLY MORTARED. WEBS SHALL BE FULLY MORTARED IN ALL COURSES OF PIERS, COLUMNS, PILASTERS, IN THE STARTING COURSE ON FOUNDATIONS WHERE ADJACENT CELLS OR CAVITIES ARE TO BE GROUTED, AND WHERE OTHERWISE REQUIRED. HEAD JOINTS SHALL BE MORTARED A MINIMUM DISTANCE FROM EACH FACE EQUAL TO THE FACE SHELL THICKNESS OF THE UNITS. THICKNESS OF BED JOINTS SHALL NOT EXCEED 5/8" (2022 CBC SECTION 2105.2.2.1.2)
- H) GROUTING OPERATIONS, MAXIMUM GROUT POUR HEIGHT, AND USE OF CLEAN-OUTS SHALL CONFORM TO 2022 C.B.C SECTION 2104.1.2 AND ACI 530.1-11 SECTION 1.20. CLEANOUTS (IF REQUIRED) SHALL BE PROVIDED BY SUITABLE 'C' OPENINGS IN THE FACE SHELLS IN THE BOTTOM COURSE OF EACH CELL TO BE GROUTED. OR OTHER APPROVED LOCATIONS. THE CLEAN-OUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING.

# GENERAL STEEL AND WELDING 1) ALL STRUCTURAL STEEL SHALL BE IDENTIFIED IN ACCORDANCE WITH 2021 IBC AND 2022 CBC SECTION 2205A AND AISC 360-16. WIDE FLANGE SECTIONS TO BE A-572 50 KSI STEEL. 2) STEEL SHAPES, PLATES AND BARS SHALL BE MIN. ASTM A36 (FY = 36 KSI) UNLESS

- NOTED OTHERWISE.
- 3) WIDE FLANGE SECTIONS IN MOMENT FRAMES SHALL BE A992 GR. 50-65 KSI. ALL OTHER WIDE FLANGE SECTIONS SHALL BE GR. 50 (MIN. FY = 50 KSI).
- 4) PIPE STEEL SHALL BE WELDED PIPE CONFORMING TO ASTM A-53 GRADE "B" (MIN. FY = 35 KSI); TUBE STEEL TO BE ASTM A500 (MIN. FY = 42 KSI)
- 5) ALL BOLTS SHALL BE ASTM A-325 UNLESS NOTED OTHERWISE AND SHALL CONFORM TO AISC 360-16. REGULAR THREADED ROD SHOULD BE ASTM A36. HIGH STRENGTH THREADED ROD SHALL BE ASTM A449.
- 6) ALL STRUCTURAL STEEL AND CONNECTIONS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS AND CODE OF STANDARD PRACTICE AS AMENDED TO DATE. FABRICATOR TO BE LICENSED.
- 7) SHOP WELDING TO BE ELECTRIC-ARC PROCESS BY QUALIFIED AND CERTIFIED WELDERS BY THE CITY OF SAN JOSE USING APPROVED AND PROPER ELECTRODES. ALL COMPLETE JOINT PENETRATION GROOVE WELDS SHALL HAVE A FILLER METAL WITH A NOTCH TOUGHNESS OF 20 FOOT-POUNDS AVERAGE AT ZERO DEGREES FAHRENHEIT.
- 8) ALL STRUCTURAL STEEL SHALL BE PAINTED ONE SHOP COAT AND FIELD TOUCH-UP WITH SELF-CROSS LINKING HYDROPHOBIC ACRYLIC PRIMER AS NECESSARY. (FIELD PAINTING: TOUCH-UP ALL DAMAGED PAINT, BOLTS AND WELDS.)
- 9) SHOP DRAWINGS AND DETAILS FOR THE FABRICATION OF ANY STRUCTURAL STEEL SHALL BE APPROVED BY THE CONTRACTOR AND SUBMITTED TO THE ARCHITECT AND STRUCTURAL ENGINEER FOR THEIR REVIEW PRIOR TO FABRICATION. THE STEEL ERECTOR SHALL PROVIDE ALL ERECTION BRACING REQUIRED TO MAINTAIN STRUCTURE PLUMB AND PROPERLY BRACED DURING CONSTRUCTION.
- 10) SPECIAL INSPECTION SHALL BE PROVIDED FOR ALL STRUCTURAL FIELD WELDING IN ACCORDANCE WITH CBC 2022 SECTION 1704, AS INDICATED ON THE PLANS. ALL FIELD WELDING BY LICENSED WELDERS
- 11) ONLY THAT FIELD WELDING INDICATED ON PLANS WILL BE PERMITTED.
- 12) NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. BURNING OF HOLES IS NOT PERMITTED.
- 13) ALL WELDING SHALL CONFORM TO 'AWS' SPECIFICATION FOR WELDING. SEE WELDING SPECS BELOW.
- 14) ALL HEADED STUDS (FOR CONCRETE ANCHORAGE) SHALL BE MANUFACTURED BY 'NELSON' OR APPROVED EQUAL.
- WHERE FILLET WELD SIZE IS NOT INDICATED, USE 'AWS' MINIMUM SIZE BASED ON THE 15) THICKNESS OF THE THICKER PART BEING WELDED, AS SPECIFIED IN AISC 360-16 SECTION J2.2.
- 16) ALL BUTT WELDS TO BE FULL PENETRATION, UNLESS SPECIFICALLY NOTED OTHERWISE.
- 17) ALL STEEL BEAMS SHALL HAVE 1/4" PLATE WEB STIFFENERS AT 1/3 POINTS OF THEIR SPANS - TWO PLACES MINIMUM PER BEAM.
- 18) PROVIDE HOT DIP GALVANIZING OR 3" MINIMUM CONCRETE COVER AROUND ALL STRUCTURAL STEEL BELOW GRADE.

# RETAINING WALL SPECIFICATIONS

- 1) CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR TEMPORARY SHORING DURING RETAINING WALL CONSTRUCTION, VERTICAL CUTS IN EXCESS OF 5' SHALL HAVE THE UPPER PORTION TRIMMED BACK AT A 1:1 SLOPE BEFORE CONSTRUCTION COMMENCES.
- 2) SEE SOIL REPORT BY C2 EARTH INC., REPORT NUMBER 23062C-01L2, DATED OCTOBER 12, 2023, WHICH IS CONSIDERED A PART OF THESE PLANS. ALLOWABLE BEARING PRESSURE = 4,000 PSF. RECOMMENDATIONS THEREIN SUPERCEDES STRUCTURAL DRAWINGS AND SPECIFIC RETAINING WALL DETAILS FOR ADDITIONAL REQUIREMENTS. PROJECT SOILS REPORT SHALL TAKE PRECEDENCE OVER THESE NOTES AND SPECIFIC RETAINING WALL DETAILS .
- CONTRACTOR SHALL VERIEY ALL DIMENSIONS AND SITE CONDITIONS AND INFORM THE ENGINEER OF ANY DISCREPANCIES PRIOR TO COMMENCING WORK.
- 4) BEFORE BACKFILLING WALL, A GRANULAR DRAINAGE MATERIAL (SEE NOTE NUMBER 5) SHALL BE PLACED BEHIND THE WALL IN A CONTINUOUS 12" WIDE STRIP. THE DRAINAGE MATERIAL SHALL EXTEND THE FULL HEIGHT OF WALL UP TO 12" BELOW TOP OF THE HIGHER GRADE.
- GRANULAR DRAINAGE MATERIAL SHALL CONSIST OF 3/4" TO 1-1/2" CLEAN CRUSHED ROCK AND SHALL BE FREE OF ORGANIC MATERIAL, CLAY, OR OTHER DELETERIOUS MATERIAL.
- 6) DRAINAGE AND BACKFILL MATERIAL SHALL NOT BE PLACED UNTIL CONCRETE AND/OR MASONRY HAS REACHED DESIGN STRENGTH.
- 7) BACKFILLING AND COMPACTION:
- A) FREE-STANDING WALLS: DO NOT BACKFILL WALL UNIT UNTIL SEVEN (7) DAYS (MINIMUM) AFTER SOLID GROUTING OF WALL IS COMPLETED AND REACHED DESIGN STRENGTH. BACKFILL MATERIAL SHALL BE PLACED IN CONTINUOUS (FOR ENTIRE LENGTH OF WALL) 12" LIFTS AND COMPACTED WITH LIGHTWEIGHT TAMPERS. DO NOT FRAME WOOD STUD WALLS OR JOIST FLOORS. OR POUR CONCRETE SLABS (AT TOP OF RETENTION) UNTIL SEVEN (7) DAYS (MINIMUM) AFTER BACKFILLING AND COMPACTION OPERATION IS COMPLETE.
- 8) ALL FOOTINGS SHALL BE POURED AGAINST UNDISTURBED GROUND OR APPROVED (BY SOILS ENGINEER) FILL.
- 9) CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER IF SUPERIMPOSED LOADING OCCURS FROM ADJACENT EXISTING FOUNDATIONS OR OTHER STRUCTURES WITHIN A DISTANCE EQUAL TO THE OVERALL HEIGHT OF THE WALL.
- 10) MAXIMUM UPHILL SLOPE BEHIND WALL (UNLESS NOTED OTHERWISE) SHALL BE 1 (VERTICAL) TO 2 (HORIZONTAL).
- 11) A FOUR INCH (4") MINIMUM DIAMETER PERFORATED DRAIN PIPE SDR 35 PVC (WITH PERFORATIONS PLACED DOWNWARD) SHALL BE PLACED AT THE BASE OF THE FOOTING AND COMPLETELY SURROUNDED BY GRANULAR DRAINAGE MATERIAL (SEE NOTE NUMBER 5). DRAIN PIPE SHALL HAVE A MINIMUM 2% SLOPE TO DAYLIGHT. ALL DRAINAGE AND WATERPROOFING SPECS SHALL BE BY OTHERS.
- 12) BEFORE GRANULAR DRAINAGE MATERIAL AND BACKFILL IS PLACED, THE ENTIRE BACKSIDE (RETENTION SIDE) OF WALL SHALL BE THOROUGHLY WATERPROOFED.
- 13) MIRAFI 140N FILTER FABRIC SHALL BE INSTALLED BETWEEN GRAVEL DRAINAGE MATERIAL (SEE NOTE NUMBER FOUR) AND BACKFILL MATERIAL, TO PREVENT INFILTRATION OF NATIVE SOILS OR BACKFILL MATERIAL INTO DRAINAGE MATERIAL.

# TIMBER (CONTINUED)

- PS 20. 22) MAXIMUM MOISTURE CONTENT FOR ALL STRUCTURAL MEMBERS SHALL 19% (UNLESS SPECIFICALLY NOTED OTHERWISE).
- 23) FACE NAIL ALL DOUBLE 2X STUDS AND JOISTS TOGETHER WITH 16D
- 24) PROVIDE 2X SOLID FIRE BLOCKING IN ALL STUD WALLS AT A MAXIMUM VERTICAL SPACING.
- 25) PLACE ALL BEAMS WITH NATURAL CAMBER UPWARD.
- 26) NOTCHING AND HOLES IN STRUCTURAL MEMBERS SHALL CONFORM TO UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE. OR WITH THE APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINEER.
- 27) HOLES AND NOTCHES IN JOISTS:

- 28) NOTCHES IN THE TOP AND BOTTOM OF JOISTS SHALL NOT EXCEED ON DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SF 18" OF THE SUPPORTS
- 29) HOLES BORED IN JOISTS SHALL NOT EXCEED ONE SIXTH OF THE JOIST SHALL BE LOCATED WITHIN THE MIDDLE 2/3 OF THE SPAN AND WITHIN THIRD OF THE JOIST'S DEPTH.
- 30) HOLES AND NOTCHES IN STUDS, PLATES, AND SILLS: BORED HOLES N IN STUDS, PLATES , AND SILLS PROVIDED THAT THEY ARE ACCURATELY ABOUT STUD, SPACED A MINIMUM OF 12" APART AND THE HOLE DIAM NOT EXCEED 25% OF THE STUD WIDTH. STUDS MAY BE NOTCHED PRO DEPTH DOES NOT EXCEED 25% OF STUD WIDTH. SHOULD THE BORED 25%, CONTACT THE ARCHITECT AND THE STRUCTURAL ENGINEER. NON PARTITIONS MAY BE BORED TO 40% OF WIDTH.
- 31) PROVIDE DOUBLE JOISTS BENEATH ALL NON-BEARING PARALLEL WALL WALLS BELOW. PROVIDE SOLID BLOCKING BELOW WALLS WITH PERPEND FRAMING.
- 32) ALL NAILS, BOLTS, SCREWS, HANGERS, WASHERS, NUTS, ETC., USED F CONSTRUCTION EXPOSED TO THE WEATHER IN IT'S FINAL POSITION SHA QUALITY HOT-DIPPED GALVANIZED.
- 33) SHEARWALL SHEATHING NOTES:
- 34) PLYWOOD SHEARWALL NAILING: SEE PLAN AND SHEARWALL SCHEDULE FRAMING MEMBERS REQUIRED AT ADJOINING PANEL EDGES AND BOTTO PLATES. ALSO USE 3X FRAMING AT BOUNDARIES IF NAILING IS SPACE 4"" O.C. A MINIMUM OF 1/2" EDGE DISTANCE SHALL BE PROVIDED EDGE OF THE PLYWOOD PANEL TO THE NAILING.
- 35) SHEAR PANELS: SEE DETAILS AND SHEAR WALL SCHEDULE. SHEAR W EXTEND FULL LENGTH OF WALL BETWEEN DOOR OR WINDOW OPENINGS WALL UNLESS NOTED OTHERWISE. PLYWOOD SHEATHING AND FRAMING THE FULL HEIGHT OF THE WALL TO THE ROOF OR FLOOR DIAPHRAGM TO CEILING ONLY. SEE TYPICAL SHEAR TRANSFER DETAILS FOR THE F CONNECTION OF THE ROOF AND FLOOR DIAPHRAGMS TO ALL SHEAR PLYWOOD SHEAR WALLS TO BE BLOCKED AND NAILED WITH COMMON
- 36) THE USE OF NAIL GUNS FOR SHEARWALL NAILING IS SUBJECT TO A JOBSITE DEMONSTRATION AND APPROVAL BY THE ENGINEER PROIR TO THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMAN NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORM HAND HELD HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES AR MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.
- ALL EXTERIOR WALLS SHALL RECEIVE ONE-HALF INCH PLYWOOD WRAP -37) NON-SHEARWALL AREAS (IE ABOVE AND BELOW WINDOWS AND DOORS NOT DESIGNATED AS SHEARWALLS ON PLANS. ETC.) DO NOT NEED TO BUT DO NEED TO HAVE ONE-HALF INCH PLYWOOD. SEE FRAMING PL SHEARWALL SCHEDULE. MINIMUM PLYWOOD WALL WILL BE #2 WALL PE SCHEDULE.
- 38) WHERE PLYWOOD OCCURS ON BOTH SIDES OF A WALL. THE PLYWOOD OPPOSITE SIDES SHALL NOT OCCUR OVER THE SAME STUDS OR BLOCK
- 39) ALL NAILS SHALL BE COMMON WIRE NAILS. AT EXISTING WALLS, #8 HEAD WOOD SCREWS AT 6" O.C. VERTICALLY MAY BE USED IN PLACE COMMON NAILS.
- 40) EACH PLYWOOD SHEET SHALL HAVE A MINIMUM AREA OF 8 SQUARE MINIMUM DIMENSION OF 2 FEET IN ANY DIRECTION. JOINTS NEED NOT STAGGERED AT WALLS. PLYWOOD MAY BE PLACED WITH GRAIN PARAI
- 41) SIMPSON A35 OR LTP4 FRAMING CLIPS SHALL BE USED AT DOUBLE T BLOCKING AT ALL FLOOR LEVELS, SEE SHEAR TRANSFER DETAILS, SPA BE PER PLAN AND SHEAR WALL SCHEDULE AT SHEARWALLS. EXCEPTION EDGES BREAK AT RIM JOIST / BLOCKING (SEE STANDARD AND ALTERI TRANSFER DETAILS - TYPICAL). AT NON-SHEARWALL AREAS (ABOVE ETC.) MAXIMUM SPACING SHALL BE AT 32" O.C. TYPICAL. WOOD SILL BE ATTACHED PER SHEARWALL SCHEDULE AND PLAN, AT NON-SHEA (BELOW OPENINGS, ETC.) MAXIMUM NAIL SPACING FOR SILL PLATE ATT 16D AT 6" O.C. INTO BLOCKING BELOW - TYP.
- 42) WATERPROOFING: EXTERIOR STRUCTURAL WOOD PANEL SHEAR WALLS COVERED WITH A MINIMUM OF 2 LAYERS 15# FELT UNDERLAYMENT F PLACING FINISH MATERIAL.
- 43) STUCCO LATH NAILING FOR SHEARWALL APPLICATIONS (90PLF) SHALL 1-1/2" LONG, 3/8" DIAMETER HEAD, GALVANIZED AND BE FURRED A 1/4". SPACING SHALL BE 3" O.C. FOR NON-SHEARWALL APPLICATIONS NAIL MAY BE USED AT 6" O.C.
- 44) HOLD-DOWN CONNECTORS: ALL BOLT HOLES IN WOOD POSTS ARE TO MAXIMUM OVERSIZED. ALL CONNECTORS ARE TO BE TIGHTENED BEFO CLOSED UP. LEAVE ENOUGH SPACE BETWEEN SILL AND HOLDOWN TO SOME SLIP AT POST WHEN TIGHTENED. PLATE WASHERS SHALL BE US WOOD POST SIDE OF THE HOLDOWN CONNECTION, WASHER SIZES ARE BELOW.
- 45) HOLDOWNS SHALL STACK UNLESS INTERRUPTED BY A BEAM. HOLDOW PLANS ARE FOR THE FRAMING LEVEL BELOW.
- 46) APPROVED PLATE WASHERS, IN LIEU OF CUT WASHERS, SHALL BE PRO ALL PLYWOOD SHEARWALL SILL PLATE ANCHOR BOLTS. FOLLOWING AR WASHER SIZES:
  - 1/2" DIA. BOLT 2" x 2" x 3/16" 5/8" DIA. BOLT 2.5" x 2.5" x 1/4"
  - 3/4" DIA. BOLT 2.75" x 2.75" x 5/16"
  - 7/8" DIA. BOLT 3" x 3" x 5/16"
  - 1" DIA. BOLT 3.5" x 3.5" x 3/8"

	TIMBER (CONTINUED)		TIMBER	
,	ALL LUMBER SHALL CONFORM TO THE AMERICAN SOFTWOOD LUMBER STANDARD DOC PS 20. MAXIMUM MOISTURE CONTENT FOR ALL STRUCTURAL MEMBERS SHALL NOT EXCEED	1)	FRAMING: 2X AND SMALLER TO BE DOUGLAS FIR GRADE #2 OR BETTER UNLESS NOTED OTHERWISE. 4X AND LARGER TO BE #1 OR BETTER UNLESS NOTED OTHERWISE. POSTS TO BE DOUGLAS FIR #1. STUDS AT BEARING WALLS TO BE DOUGLAS FIR #2 OR BETTER AND STUDS AT NON-BEARING WALLS TO BE STUD	
23)	19% (UNLESS SPECIFICALLY NOTED OTHERWISE). FACE NAIL ALL DOUBLE 2X STUDS AND JOISTS TOGETHER WITH 16D AT 6" O.C.,	2)	GRADE OR BETTER. ALL LUMBER MUST BE GRADE MARKED. FOUNDATION SILL PLATES SHALL BE PRESSURE TREATED DOUGLAS FIR (PTDF). SEE	
24)	STAGGER NAILS TOP AND BOTTOM. PROVIDE 2X SOLID FIRE BLOCKING IN ALL STUD WALLS AT A MAXIMUM OF 8'-0"		SHEAR WALL SCHEDULES AND FOUNDATION AND FRAMING PLANS FOR ANCHOR BOLT SPACING. (MAXIMUM SPACING FOR SILL PLATE BOLTING SHALL BE 48" O.C. – 5/8" DIAMETER X 7" EMBEDMENT IN CONCRETE ANCHOR BOLT WITH 1–7/8" MIN. EDGE	
25)	VERTICAL SPACING. PLACE ALL BEAMS WITH NATURAL CAMBER UPWARD.		DISTANCE. PROVIDE A MINIMUM OF TWO BOLTS PER PLATE WITH ONE BOLT WITHIN 12" OF EACH END OF PLATE). PLATE WASHERS REQUIRED FOR SILLS ON CONCRETE OR MASONRY. ALL BOLTS GALVANIZED.	<b>CD</b> ^ω _t
•	NOTCHING AND HOLES IN STRUCTURAL MEMBERS SHALL CONFORM TO NOTES BELOW UNLESS SPECIFICALLY NOTED OR DETAILED OTHERWISE, OR WITH THE WRITTEN APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINEER.	3)	BOLTS IN TIMBER TO HAVE STANDARD CUT WASHERS, UNLESS NOTED OTHERWISE. BOLTS USED WITH STEEL PLATES OR ANGLES MAY NOT REQUIRE WASHERS. HOLES FOR BOLTS TO BE A MAXIMUM OF 1/16 INCH LARGER THAN BOLT DIAMETER. ALL	
27)	HOLES AND NOTCHES IN JOISTS:		BOLTS SHALL CONFORM TO ASTM A325-07A.	
28)	NOTCHES IN THE TOP AND BOTTOM OF JOISTS SHALL NOT EXCEED ONE SIXTH THE DEPTH AND SHALL NOT BE LOCATED IN THE MIDDLE THIRD OF THE SPAN OR WITHIN 18" OF THE SUPPORTS.	4)	ALL NAILS SHALL BE COMMON WIRE NAILS. 16D SINKERS MAY BE USED FOR FRAMING, I.E. ATTACHING STUDS TOGETHER OR TO PLATES. COMMONS SHALL BE USED FOR ALL SHEARWALL NAILING, ROOF AND FLOOR SHEATHING, TOP PLATE SPLICING, HARDWARE CONNECTION, ETC. NAILS SHALL NOT BE SPACED CLOSER THAN 1/2 THEIR LENGTH, NOR CLOSER TO THE EDGE OF THE MEMBER THAN 1/4 THEIR	
29)	HOLES BORED IN JOISTS SHALL NOT EXCEED ONE SIXTH OF THE JOIST DEPTH AND SHALL BE LOCATED WITHIN THE MIDDLE $2/3$ OF THE SPAN AND WITHIN THE MIDDLE THIRD OF THE JOIST'S DEPTH.	5)	LENGTH, EXCEPT FOR SHEATHING. SUB-BORE WHEN NAILS TEND TO SPLIT WOOD. DIAMETER TO BE 0.75 TIMES NAIL DIAMETER. STRUCTURAL HARDWARE CALLOUTS (JOIST HANGERS, POST BASES, HOLDOWNS AND	
30)	HOLES AND NOTCHES IN STUDS, PLATES, AND SILLS: BORED HOLES MAY BE PLACED IN STUDS, PLATES ,AND SILLS PROVIDED THAT THEY ARE ACCURATELY CENTERED ABOUT STUD, SPACED A MINIMUM OF 12" APART AND THE HOLE DIAMETER DOES NOT EXCEED 25% OF THE STUD WIDTH. STUDS MAY BE NOTCHED PROVIDED NOTCH DEPTH DOES NOT EXCEED 25% OF STUD WIDTH. SHOULD THE BORED HOLE EXCEED 25%, CONTACT THE ARCHITECT AND THE STRUCTURAL ENGINEER. NON-BEARING	6)	ALL OTHER HARDWARE) SHOWN ON STRUCTURAL DRAWINGS REFER TO REFERENCE NUMBERS CONTAINED IN THE LATEST EDITION SIMPSON STRONG-TIE CO. INC. CATALOG, UNLESS NOTED OTHERWISE. EQUIVALENT HARDWARE MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ARCHITECT AND THE STRUCTURAL ENGINEER. PLYWOOD FOR SHEARWALLS SHALL BE C.D.X. STRUCTURAL I (OR BETTER), 5-PLY	nginee Idand Hills, t tel com email
31)	PARTITIONS MAY BE BORED TO 40% OF WIDTH. PROVIDE DOUBLE JOISTS BENEATH ALL NON-BEARING PARALLEL WALLS WITHOUT WALLS BELOW. PROVIDE SOLID BLOCKING BELOW WALLS WITH PERPENDICULAR FLOOR	_`	WITH EXTERIOR GLUE, AS GRADED BY A.P.A. PLYWOOD FOR FLOORS AND ROOFS SHALL BE CDX EXTERIOR GRADE. PLYWOOD SHALL CONFORM TO DOC PS 1. STRUCT I ORIENTED STRAND BOARD IS ALSO ACCEPTABLE IF APPROVED BY THE ARCHITECT.	al Er Mood 1572 - 8572 eering.o
70)	FRAMING.	7)	ALL HORIZONTAL PLYWOOD SHALL BE LAID WITH FACE GRAIN PERPENDICULAR TO JOISTS AND WITH STAGGERED JOINTS.	
	ALL NAILS, BOLTS, SCREWS, HANGERS, WASHERS, NUTS, ETC., USED FOR CONSTRUCTION EXPOSED TO THE WEATHER IN IT'S FINAL POSITION SHALL BE FIRST QUALITY HOT-DIPPED GALVANIZED.	8)	SHEATHING: (PLYWOOD DIAPHRAGMS MUST BE PRODUCT STANDARD DOC PS 1 DOUGLAS FIR-LARCH, CDX) ROOF SHEATHING:	LL LL C C C C C C C C C C C C C C C C C
,	SHEARWALL SHEATHING NOTES: PLYWOOD SHEARWALL NAILING: SEE PLAN AND SHEARWALL SCHEDULE FOR 3X		5/8" CDX PLYWOOD (INDEX 32/16) NAILED WITH 10D COMMON WIRE NAILS (0.148"	Str 2300 jack(818
01)	FRAMING MEMBERS REQUIRED AT ADJOINING PANEL EDGES AND BOTTOM SILL PLATES. ALSO USE 3X FRAMING AT BOUNDARIES IF NAILING IS SPACED LESS THAN 4"" O.C. A MINIMUM OF 1/2" EDGE DISTANCE SHALL BE PROVIDED FROM THE EDGE OF THE PLYWOOD PANEL TO THE NAILING.		DIAMETER X 2-1/4" LONG - EZCODE ID "S") AT 6" ON CENTER AT BUILDING BOUNDARIES AND AT PANEL EGES AND AT 12" ON CENTER AT INTERMEDIATE SUPPORTS. PANEL EDGES TO BE BLOCKED WITH FLAT 2X4'S. FLOOR SHEATHING:	NOT FOR CONSTRUCTION UNTIL SIGNED BY ENGINEER
35)	SHEAR PANELS: SEE DETAILS AND SHEAR WALL SCHEDULE. SHEAR WALLS TO EXTEND FULL LENGTH OF WALL BETWEEN DOOR OR WINDOW OPENINGS OR END OF		3/4" CDX PLYWOOD - TONGUE AND GROOVE - (INDEX 32/16) NAILED WITH 10D	OROFESSION
	WALL UNLESS NOTED OTHERWISE. PLYWOOD SHEATHING AND FRAMING MUST EXTEND THE FULL HEIGHT OF THE WALL TO THE ROOF OR FLOOR DIAPHRAGM ABOVE – NOT TO CEILING ONLY. SEE TYPICAL SHEAR TRANSFER DETAILS FOR THE PROPER CONNECTION OF THE ROOF AND FLOOR DIAPHRAGMS TO ALL SHEAR WALLS. PLYWOOD SHEAR WALLS TO BE BLOCKED AND NAILED WITH COMMON NAILS.		COMMON WIRE NAILS (0.148" DIAMETER X 2-3/8" LONG - EZCODE ID "T") AT 4" ON CENTER AT BUILDING BOUNDARIES, 6" ON CENTER AT PANEL EDGES, 10" ON CENTER AT INTERMEDIATE SUPPORTS. PANEL EDGES TO BE BLOCKED WITH FLAT 2X4'S. (GLUE AND NAIL ALL PLYWOOD).	B B B C C C C C C C C C C C C C
36)	THE USE OF NAIL GUNS FOR SHEARWALL NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION AND APPROVAL BY THE ENGINEER PROIR TO FRAMING. THE APPROVAL IS SUBJECT TO CONTINUED SATISFACTORY PERFORMANCE. IF THE	9)	ALL FLUSH FRAMED JOISTS OR BEAMS SHALL SEAT IN 'SIMPSON' JOIST HANGERS: 2X JOISTS TO BEAMS – LU ; 4X BEAMS TO BEAMS – HU ; 6X BEAMS TO BEAMS – HUTF ; 6X BEAMS – HW,W HANGERS.	PATE OF CALIFORNIE
	NAILHEADS PENETRATE THE OUTER PLY MORE THAN WOULD BE NORMAL FOR A HAND HELD HAMMER, OR IF MINIMUM ALLOWABLE EDGE DISTANCES ARE NOT MAINTAINED, THE PERFORMANCE WILL BE DEEMED UNSATISFACTORY.	10)	BUILT-UP OR MULTIPLE JOIST BEAMS SHALL NOT BE SUBSTITUTED FOR SOLID BEAMS.	
37)	ALL EXTERIOR WALLS SHALL RECEIVE ONE-HALF INCH PLYWOOD WRAP. NON-SHEARWALL AREAS (IE ABOVE AND BELOW WINDOWS AND DOORS, OR WALLS NOT DESIGNATED AS SHEARWALLS ON PLANS, ETC.) DO NOT NEED TO BE BLOCKED, BUT DO NEED TO HAVE ONE-HALF INCH PLYWOOD. SEE FRAMING PLAN NOTES AND SHEARWALL SCHEDULE. MINIMUM PLYWOOD WALL WILL BE #2 WALL PER SHEARWALL SCHEDULE.	11)	PROVIDE 2X SOLID BLOCKING BETWEEN ALL JOISTS AND RAFTERS AT ALL SUPPORTS AND UNDER ALL PARTITIONS. 2 X 10 OR LARGER JOISTS AND RAFTERS SHALL BE SUPPORTED LATERALLY BY BLOCKING AT INTERVALS NOT EXCEEDING EIGHT FEET AND AT ALL SUPPORTS. REFER TO IBC SECTION 2308.2 FOR ALL BLOCKING REQUIREMENTS. 2X10 ROOF JOISTS WITH RIP STRIPS ABOVE SHALL ALSO BE BLOCKED AT EIGHT FOOT INTERVALS. WOOD WEB JOISTS (TRUS JOIST, ETC) DO NOT REQUIRE MID SPAN BLOCKING, HOWEVER MICROLLAM BLOCKING/RIMS (LVL) SHALL BE	SIDENCE LANE CA -012
38)	WHERE PLYWOOD OCCURS ON BOTH SIDES OF A WALL, THE PLYWOOD JOINTS ON OPPOSITE SIDES SHALL NOT OCCUR OVER THE SAME STUDS OR BLOCKING.		USED ABOVE AND BELOW ALL WALLS. SEE ARCHITECTURAL PLANS FOR FIRE BLOCKING REQUIREMENTS.	
39)	ALL NAILS SHALL BE COMMON WIRE NAILS. AT EXISTING WALLS, #8 X 3 INCH FLAT HEAD WOOD SCREWS AT 6" O.C. VERTICALLY MAY BE USED IN PLACE OF 10D COMMON NAILS.	12)	LAG SCREWS SHALL BE TURNED NOT DRIVEN INTO PRE-DRILLED HOLES OF 3/4 THE SHANK DIAMETER, AND FULL DIAMETER FOR SMOOTH SHANK PORTION. SOAP, PARAFFIN OR OTHER APPROVED LUBRICANT SHALL BE USED ON THREADS. CARE SHALL BE TAKEN NOT TO OVER-TORQUE SCREWS.	MADO 654 1000 1000
40)	EACH PLYWOOD SHEET SHALL HAVE A MINIMUM AREA OF 8 SQUARE FEET AND A MINIMUM DIMENSION OF 2 FEET IN ANY DIRECTION. JOINTS NEED NOT BE STAGGERED AT WALLS. PLYWOOD MAY BE PLACED WITH GRAIN PARALLEL TO STUDS.	13)	SPLICES IN TOP PLATES SHALL HAVE A MINIMUM 4 FOOT LAP SPLICE WITH 20–16D NAILS. DOUBLE TOP PLATES SHALL BE NAILED TOGETHER TYPICALLY WITH 16D AT 16" O.C. ANY BREAKS IN TOP PLATES FOR BEAMS, ETC. SHALL BE STRAPPED TOGETHER WITH MST48 BY SIMPSON.	E S A BN:
41)	SIMPSON A35 OR LTP4 FRAMING CLIPS SHALL BE USED AT DOUBLE TOP PLATE TO BLOCKING AT ALL FLOOR LEVELS, SEE SHEAR TRANSFER DETAILS, SPACING SHALL BE PER PLAN AND SHEAR WALL SCHEDULE AT SHEARWALLS. EXCEPTION: SHEATHING EDGES BREAK AT RIM JOIST / BLOCKING (SEE STANDARD AND ALTERNATE SHEAR TRANSFER DETAILS – TYPICAL). AT NON-SHEARWALL AREAS (ABOVE OPENINGS,	14)	ALL BEAMS SHALL BE SUPPORTED BY POSTS OR GIRDERS. FOR 4X8 AND SMALLER BEAMS 2–2X4 POSTS SHALL BE USED UNLESS NOTED OTHERWISE. FOR LARGER BEAMS A 4X4 POST SHALL BE USED UNLESS NOTED OTHERWISE. ALL POSTS SHALL PROVIDE FULL BEARING WIDTH FOR THE BEAM UNLESS NOTED OTHERWISE.	MAU B
	ETC.) MAXIMUM SPACING SHALL BE AT 32" O.C. TYPICAL. WOOD SILL PLATES SHALL BE ATTACHED PER SHEARWALL SCHEDULE AND PLAN, AT NON-SHEARWALL AREAS (BELOW OPENINGS, ETC.) MAXIMUM NAIL SPACING FOR SILL PLATE ATTACHMENT IS 16D AT 6" O.C. INTO BLOCKING BELOW - TYP.	15)	ALL POSTS SHALL CONTINUE THROUGH FLOORS (OR SOLID BLOCKED BETWEEN FLOORS) UNTIL A BEAM OR FOUNDATION IS ENCOUNTERED.	
42)	WATERPROOFING: EXTERIOR STRUCTURAL WOOD PANEL SHEAR WALLS SHALL BE COVERED WITH A MINIMUM OF 2 LAYERS 15# FELT UNDERLAYMENT PRIOR TO PLACING FINISH MATERIAL.	16)	ALL 4X6 POSTS, OR SMALLER, INSIDE WALLS MAY BEAR ON THE SILL PLATE UNLESS NOTED OTHERWISE. ISOLATED POSTS SHALL SEAT IN SIMPSON "CB" BASES, 4X8 OR LARGER POSTS, IN WALLS, SHALL BE SEATED IN SIMPSON POST BASES.	
43)	STUCCO LATH NAILING FOR SHEARWALL APPLICATIONS (90PLF) SHALL BE: 12 Ga., $1-1/2$ " LONG, $3/8$ " DIAMETER HEAD, GALVANIZED AND BE FURRED A MINIMUM OF $1/4$ ". SPACING SHALL BE 3" O.C. FOR NON-SHEARWALL APPLICATIONS THE SAME NAIL MAY BE USED AT 6" O.C.	17)	UNMARKED HEADERS SHALL BE THE FOLLOWING UNLESS NOTED OTHERWISE: SUPPORTING CEILING AND ROOF: 4X4 UP TO 4'-0" SPAN ; 4X6 UP TO 6'-0" SPAN ; 4X8 UP TO 8'-0" SPAN ; 4X10 UP TO 10'-0" SPAN ; 4X12 UP TO 12'-0" SPAN. SUPPORTING 2ND FLOOR, CEILING, AND ROOF: 4X4 UP TO 3'-0" SPAN ; 4X6 UP TO 5'-0" SPAN ; 4X8 UP TO 7'-0" SPAN ; 4X10 UP TO 9'-0" SPAN ; 4X12 UP TO	OTES
44)	HOLD-DOWN CONNECTORS: ALL BOLT HOLES IN WOOD POSTS ARE TO BE 1/16" MAXIMUM OVERSIZED. ALL CONNECTORS ARE TO BE TIGHTENED BEFORE WALL IS CLOSED UP. LEAVE ENOUGH SPACE BETWEEN SILL AND HOLDOWN TO ALLOW FOR SOME SLIP AT POST WHEN TIGHTENED. PLATE WASHERS SHALL BE USED ON THE WOOD POST SIDE OF THE HOLDOWN CONNECTION, WASHER SIZES ARE PER LIST BELOW.	18)	10'-0" SPAN. MINIMUM WALL STUD SIZES - WALLS: 2X4 AT 16" O.C. UP TO 9'-0" TALL; 2X6 AT 16" O.C. UP TO 13'-0"; 2X8 AT 16" O.C. UP TO 17'-6" TALL. ALL STUDS FOR WALLS WILL CONTINUE FULL HEIGHT BETWEEN FLOORS, UNLESS BROKEN BY CEILING JOISTS OR FLOOR ON AT LEAST ONE SIDE OF THE WALL. STUDS SUPPORTING TWO FLOORS SHALL BE 3X4 OR 2X6 AT 16" O.C. MINIMUM.	RAL N
45)	HOLDOWNS SHALL STACK UNLESS INTERRUPTED BY A BEAM. HOLDOWNS SHOWN ON PLANS ARE FOR THE FRAMING LEVEL BELOW.	19)	NAILING TO COMPLY WITH NAILING SCHEDULE – IBC TABLE NO. 2304.9.1 UNLESS NOTED OTHERWISE. NAILING REQUIREMENTS STATED IN THE SPECIFICATIONS, PLANS	
46)	APPROVED PLATE WASHERS, IN LIEU OF CUT WASHERS, SHALL BE PROVIDED FOR ALL PLYWOOD SHEARWALL SILL PLATE ANCHOR BOLTS. FOLLOWING ARE PLATE	20)	OR DETAILS SHALL SUPERSEDE TABLE 23–11–B–1. TABLE NO. 23–11–B–1 NAILING SCHEDULE (ABBREVIATED VERSION):	
	WASHER SIZES: 1/2" DIA. BOLT 2" x 2" x 3/16" 5/8" DIA. BOLT 2.5" x 2.5" x 1/4" 3/4" DIA. BOLT 2.75" x 2.75" x 5/16" 7/8" DIA. BOLT 3" x 3" x 5/16" 1" DIA. BOLT 3.5" x 3.5" x 3/8"		CONNECTION NAILING A) JOIST TO SILL OR GIRDER (TOENAIL) 3–8D B) BRIDGING TO JOIST, TOENAIL EACH END 2–8D C) SOLE PLATE TO JOIST OR BLOCKING FACE NAIL 16D AT 16" O.C. D) TOP PLATE TO STUD, END NAIL 2–16D E) STUD TO SOLE PLATE 4–8D, TOENAIL OR 2–16D, END NAIL F) DOUBLE STUDS, FACE NAIL 16D AT 16" O.C. G) DOUBLED TOP PLATES, FACE NAIL 16D AT 16" O.C. H) TOP PLATE INTERSECTIONS, FACE NAIL 2–16D I) CONTINUOUS HEADER, TWO PIECES 16D AT 16" O.C. ALONG EACH EDGE. J) CEILING JOISTS TO PLATE, TOENAIL 3–8D K) CONTINUOUS HEADER TO STUD, TOENAIL 4–8D L) CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL 3–16D	PROJECT NUMBER: 23B03 PROJ. ENG. / DRAWN: JH DATE: DEC. 10, 2023 SCALE: AS NOTED

L) CEILING JOIST, LAPS OVER PARTITIONS, FACE NAIL 3–16D M) CEILING JOISTS TO PARALLEL RAFTERS. FACE NAIL 3-16D N) RAFTER TO PLATE, TOENAIL 3–8D 0) 1" BRACE TO EACH STUD AND PLATE, FACE NAIL 2-8D P) BUILT-UP CORNER STUDS 16D AT 24" O.C.

AS NOTED

SHEET NUMBER:

DATE

# STEEL MOMENT FRAME SPECIFICATIONS AND QUALITY ASSURANCE (CONT.)

D. WELDING AND FABRICATION DETAILS

### 1. BASE METAL JOINT PREPARATION A. BASE METAL PREPARATION SHALL BE IN COMPLY WITH AWS D1.1/D1.1M: 2014 SECTION 5.15. B. ALL BEAM FLANGE TO COLUMN FLANGE WELDS ARE TO BE MADE WITH AN AWS PREQUALIFIED CJP GROOVE WELDED JOINT DETAIL. BEVEL, FIT-UP AND DETAIL TOLERANCES SHALL BE AS REQUIRED BY THE SELECTED PREQUALIFIED WELDED JOINT DETAIL. D. WHENEVER POSSIBLE, USE THE AWS PREQUALIFIED CJP GROOVE WELDED JOINT PER STRUCTURAL DETAIL AND THE FOLLOWING: I. USE SINGLE BEVEL CJP GROOVE WELDS MADE WITH A 30 DEGREES GROOVE ANGLE OR DOUBLE BEVEL CJP GROOVE WELDS WHEN FLANGE THICKNESS EXCEED 1-1/2 INCH. II. "AS FIT-UP" AND "AS DETAILED" SHALL BE THE MAXIMUM TOLERANCES. III. MEET ALL PREQUALIFIED WPS VARIABLES IN TABLE 5. 2. WELD ACCESS HOLE A. WHERE WELD ACCESS HOLES ARE PROVIDED, THEY SHALL BE DETAILED AS ILLUSTRATED IN STRUCTURAL DETAILS. B. NOTCHES AND GOUGES SHALL BE REPAIRED FOLLOWING A WPS APPROVED BY THE ENGINEER OF RECORD. . WELD ACCESS HOLES SHALL BE PREPARED BY GRINDING TO A SUITABLE FINISH IN ACCORDANCE WITH AISC LRFD SPECIFICATION SECTION J1.6 AND PROVIDED WITH A MINIMUM RADIUS OF 3/8 INCH AS ILLUSTRATED IN STRUCTURAL DETAILS. 3. BACKING BAR A. BACKING BAR USED IN CONNECTIONS WITH A CJP GROOVE WELD OF BEAM FLANGE TO COLUMN FLANGE SHALL BE REMOVED EXCEPT THAT TOP FLANGE BACKING BAR ATTACHED TO THE COLUMN BY A CONTINUOUS FILLET WELD ON THE EDGE BELOW THEE CJP GROOVE WELD NEED NOT BE REMOVED. B. FOLLOWING REMOVAL OF BACKING BAR, THE ROOT PASS SHALL BE BACKGOUGED TO SOUND WELD METAL, AND BACK WELDED. A REINFORCING FILLET WELD WITH A MINIMUM LEG SIZE OF 5/16 INCH OR THE ROOT OPENING PLUS 1/16 INCH, WHICHEVER IS LARGER, SHALL BE PROVIDED. THE REINFORCING FILLET WELD NEED NOT BE GROUNDED. WHEN BACKING BAR IS OTHER THAN AWS D1.1/D1.1M: 2014 TABLE 3.1 AND SECTION 5.2.2 APPROVED BASE METAL IS USED, THE FOLLOWING SHALL APPLY: I. CERAMIC. FLUX OR GLASS TAPE MAY BE USED PROVIDED THE MANUFACTURE'S RECOMMENDATIONS ARE FOLLOWED. II. WHEN A NON-METALLIC BACKING BAR IS USED, THE WPS AND THE WELDER SHALL BE QUALIFED USING THE TYPE OF BACKING BAR INTENDED FOR WFI DING III. NONFERROUS METALLIC (E.G. COPPER) BACKING MATERIALS ARE NOT PERMITTED. 4. WELD TAB . WELD TABS SHALL BE ALIGNED PARALLEL TO THE JOINT PREPARATION. B. NO WELD DAMS ARE ALLOWED. WELD TABS SHALL EXTEND BEYOND THE EDGE OF THE JOINT A MINIMUM DISTANCE EQUAL TO THE PART THICKNESS, BUT NOT LESS THAN ONE INCH.

- D. WELD TAB SHALL BE REMOVED UPON COMPLETION OF THE WELDED JOINT AS FOLLOWS: I. NO MORE THAN 1/8 INCH BEYOND THE EDGE OF THE JOINT SHALL REMAIN,
- EXCEPT AT CONTINUITY PLATE WHERE UP TO 1/4 INCH IS ACCEPTABLE. II. EDGES OF THE WELD TAB SHALL BE FINISHED TO A SURFACE ROUGHNESS VALUE OF 500 MICRO INCH OR BETTER. GRINDING TO A FLUSH CONDITION IS NOT REQUIRED.
- E. GOUGES AND NOTCHES ARE NOT PERMITTED. THE TRANSITIONAL SLOPE OF ANY AREA WHERE GOUGES AND NOTCHES HAVE BEEN REMOVED SHALL NOT EXCEED 1:5.
- F. MATERIAL REMOVED BY GRINDING THAT EXTENDS MORE THAN 1/16 INCH BELOW THE SURFACE OF THE BASE METAL SHALL BE FILLED WITH WELD METAL. THE CONTOUR OF THE WELD AT THE ENDS SHALL PROVIDE A SMOOTH TRANSITION, FREE OF NOTCHES AND SHARP CORNERS.

# 5. CONTINUITY PLATE

- A. CONTINUITY PLATES SHALL BE DETAILED AS ILLUSTRATED IN STRUCTURAL
- B. THE WELD ATTACHING THE CONTINUITY PLATE TO THE COLUMN FLANGE SHALL BE AS FOLLOWS: I. USE A CJP GROOVE WELD FOR THE FULL LENGTH OF THE GROOVE
  - PREPARATION
- II. WHEN BACKING BARS ARE OMITTED, THE ROOT SHALL BE BACKGOUGED AND BACK WELDED. III. WHEN BACKING BARS ARE USED AND REMAIN IN PLACE, BACKING BARS SHALL BE ATTACHED TO THE COLUMN FLANGES WITH A REINFORCING FILLET WELD.
- IV. FILLET WELD SHALL NOT BE USED TO CONNECT BACKING BARS TO
- CONTINUITY PLATES.
- V. THE FILLET WELD SIZE NEED NOT EXCEED THE MINIMUM SIZE REQUIREMENTS OF AWS D1.1/D1.1M: 2014 TABLE 5.8.
- WELD TERMINATIONS NEAR THE END OF THE COLUMN FLANGE TIPS MAY BE COMPLETED USING WELD TABS AS FOLLOWS:
- WELD TABS MAY BE STEEL OR NONFUSIBLE MATERIAL.
- II. WELD TERMINATIONS NEAR THE RADIUS OF THE COLUMN NEED NOT BE MADE USING WELD TABS. THE USE OF SMALL NONFUSIBLE WELD TABS TO ASSIST IN WELD TERMINATIONS IS PERMITTED. III. WELD TABS SHALL BE REMOVED FOLLOWING COMPLETION OF WELDING.
- D. CONTINUITY PLATES MAY BE WELDED TO THE COLUMN WEB WITH GROOVE WELDS, FILLET WELDS, OR A COMBINATION OF THE TWO. FILLET WELDS SHALL TERMINATE A MINIMUM DISTANCE OF 1/4 INCH FROM EACH END OF

# E. EXEMPTIONS

THE JOINT.

- REDUCTION FROM CERTAIN QUALITY ASSURANCE COMPONENTS OF THIS STANDARD QUALITY ASSURANCE PLAN, AS LISTED IN ITEM 2, ARE PERMITTED FOR THE FOLLOWING BUILDINGS OR STRUCTURES:
- A. ONE OR TWO FAMILY DWELLINGS NOT MORE THAN 1 STORY IN HEIGHT AND FLOOR AREA.
- B. BUILDINGS OR STRUCTURES ACCESSORY TO RESIDENTIAL USES (SUCH AS CARPORT, STORAGE, GARAGE), AND
- C. MISCELLANEOUS STRUCTURES (SUCH AS WALKWAY, CANOPY, PATIO COVER, GAZEBO.STORAGE RACK).
- 2. BUILDINGS OR STRUCTURES, ÁS LISTED IN ITEM 1, ARE EXEMPT FROM PROVIDING THE FOLLOWING QUALITY ASSURANCE COMPONENTS: A. ELECTRODE STORAGE AND ATMOSPHERIC EXPOSURE, ITEM 5(F)
  - AND 5(G) OF QUALITY ASSURANCE SPECIFICATIONS.
  - PLASTIC HINGING ZONE PROTECTION, ITEM 6 OF QUALITY ASSURANCE.
  - ADDITIONAL CVN NOTCH TOUGHNESS TESTING, ITEM 7 OF QUALITY ASSURANCE. NON-DESTRUCTIVE TESTING. ITEM 8 OF QUALITY ASSURANCE.
  - PREHEAT AND INTERPASS TEMPERATURE, ITEM 4 OF WELDING PROCEDURES.
  - POST WELD HEAT TREATMENT, ITEM 5 OF WELDING PROCEDURES.

# STEEL MOMENT FRAME SPECIFICATIONS AND QUALITY ASSURANCE (CONT.)

# C. WELDING PROCEDURES

1. BOTTOM BEAM FLANGE MOMENT CONNECTION WELDING WELDING THE BOTTOM FLANGE TO THE COLUMN FLANGE SHALL BE COMPLETED IN

- THE FLAT WELDING POSITION WITH THE FOLLOWING SEQUENCE: A. START WELDING FROM SIDE A (ONE SIDE OF THE BEAM) WITH A MAXIMUM 1/4 INCH THICK ROOT PASS BEYOND THE CENTER OF THE JOINT ON SIDE B (OTHER SIDE OF THE BEAM), REACHING PAST THE BEAM WEB THROUGH THE WELD ACCESS HOLE.
- B. AFTER THE ARC IS INITIATED, ELECTRODE TRAVEL SHALL PROGRESS TOWARD THE EDGE OF THE SIDE A BEAM FLANGE, TERMINATING ON THE SIDE A WELD
- C. THE SIDE A ROOT PASS, AND THE ROOT PASS DEPOSIT ON SIDE B, SHALL BE THOROUGHLY CLEANED TO ALLOW THE DEPUTY INSPECTOR TO VERIFY THAT THE RESULTING BEAD PROFILE IS SUITABLE FOR OBTAINING GOOD FUSION BY THE SUBSEQUENT ROOT PASS TO BE INITIATED FROM SIDE B. IF THE PROFILE IS NOT CONDUCIVE TO GOOD FUSION, THE START OF THE FIRST ROOT PASS SHALL BE GROUNDED, GOUGED, CHIPPED, OR OTHERWISE PREPARED TO ENSURE ADEQUATE PROFILE TO ACHIEVE FUSION.
- D. COMPLETE THE ROOT PASS ON SIDE B BEFORE ANY OTHER WELD PASSES ARE PERFORMED. E. THE ARC SHALL BE INITIATED AT THE START OF THE FIRST SIDE A ROOT
- PASS. AND ELECTRODE TRAVEL SHALL PROGRESS TOWARD THE EDGE OF THE SIDE B BEAM FLANGE. TERMINATING ON THE SIDE B WELD TAB.
- F. THE ABOVE SEQUENCE SHALL BE REPEATED FOR SUBSEQUENT WELD LAYERS, AND EACH WELD LAYER SHALL BE COMPLETED ON BOTH SIDES OF THE JOINT BEFORE A NEW LAYER IS DEPOSITED. THE ORDER OF OPERATIONS (SIDE A, THEN SIDE B, OR VICE VERSA) IS NOT RESTRICTED AND MAY VARY FOR EACH WELD LAYER. WELD PASSES SHALL BE PLACED IN HORIZONTAL LAYERS. EACH PASS SHALL BE THOROUGHLY CLEANED OF SLAG AND WIRE BRUSHED. EACH PASS SHALL BE VISUALLY INSPECTED BY THE DEPUTY INSPECTOR, AS DESCRIBED ABOVE IN STEP (C).
- SEQUENCE FOR WELDING AT MULTIPLE LOCATIONS 2.
  - WHEN WELDING OCCUR AT MULTIPLE LOCATIONS OF WELDED STEEL MOMENT FRAME CONNECTIONS, THE FOLLOWING SEQUENCE SHALL BE FOLLOWED: A. WELD BOTH TOP AND BOTTOM BEAM FLANGES PRIOR TO ANY SUPPLEMENTAL WELDING TO THE BEAM WEB OR SHEAR TAB.
  - B. ONLY FIELD WELDING INDICATED ON PLANS SHALL BE PERMITTED. C. FIELD WELDING OF WEB SHEAR PLATES WITH BOLTS SHALL OCCUR AFTER
  - FIELD WELDING OF BEAM FLANGES TO COLUMN FLANGE. D. HIGH STRENGTH BOLTS SHALL BE IN THE SNUG TIGHT CONDITION PRIOR TO
  - WELDING. E. HIGH STRENGTH BOLTS SHALL BE FULLY TENSIONED UPON COMPLETION OF ALL WELDING ACTIVITIES.
- 3. WELDING TECHNIQUE
  - A. STRINGER BEADS SHALL BE USED DURING ALL WELDING OPERATIONS. MAXIMUM BEAD WIDTH, BEAD THICKNESS, AND LAYER THICKNESS SHALL BE CONSIDERED. WEAVING IS NOT PERMITTED, EXCEPT WHEN THE WPS APPROVED BY THE ENGINEER OF RECORD LIMITS ELECTRODE OSCILLATION TRANSVERSE TO THE WELD AXIS TO A MAXIMUM OF:
  - I. 3D FOR 1G/1F, 2G/2F, AND 4G/4F WELD POSITIONS, OR
  - II. 5D FOR THE 3G/3F POSITION, WHERE D = ELECTRODE DIAMETER. B. WELDING LAYERS SHOULD PROGRESS FROM THE FACE OF THE COLUMN FLANGE OUTWARD TOWARD THE GROOVE FACE OF THE BEAM FLANGE AS ILLUSTRATED IN STRUCTURAL DETAILS.
- PREHEAT AND INTERPASS TEMPERATURE
- A. THE MINIMUM PREHEAT AND INTERPASS TEMPERATURE REQUIREMENTS IN TABLE 4 OF SHEET 2 SHALL BE OBSERVED. SPECIAL ATTENTION SHALL BE GIVEN TO AWS D1.1/D1.1M: 2014 SECTION 3.5.1 AND SECTION 5.6 FOR THE THICKNESS OF THE BASE METAL TO BE WELDED.
- B. PREHEAT AND ALL SUBSEQUENT INTERPASS TEMPERATURES SHALL BE MAINTAINED DURING THE WELDING OPERATION FOR A DISTANCE AT LEAST EQUAL TO THE THICKNESS OF THE THICKER WELDED PART, BUT NOT LESS THAN 3", IN ALL DIRECTIONS FROM THE POINT OF WELDING.
- C. WHERE PLATES ARE OF DIFFERENT THICKNESS. THE HIGHER MINIMUM PREHEAT AND INTERPASS TEMPERATURE REQUIREMENTS OF THE THICKER PLATE SHALL GOVERN D. MAXIMUM PREHEAT AND INTERPASS TEMPERATURE SHALL NOT EXCEED THE
- LESSER OF: I. 550 DEGREES FAHRENHEIT. OR
- II. THE MAXIMUM TEMPERATURE RECOMMENDED BY THE MANUFACTURER. 5. POST WELD HEAT TREATMENT
- POST WELD HEAT TREATMENT MAY REDUCE CRACKING TENDENCIES DUE TO POSSIBLE HYDROGEN EMBRITTLEMENT. POST WELD HEAT TREATMENT SHALL BE PROVIDED AS FOLLOWS:
- A. APPLY HEAT IN THE 400°F TO 600°F RANGE AFTER COMPLETION OF WELDING. B. COMPLYING WITH THE CONDITIONS OF AWS D1.1/D1.1M: 2014 SECTION 3.14
- AND SECTION 5.8. C. ALTERNATIVELY. THE USE OF INSULATING BLANKETS AFTER THE COMPLETION OF WELDING IS PERMITTED TO CONTROL THE COOLING OF THE CONNECTION TO AMBIENT TEMPERATURE.

# STEEL MOMENT FRAME SPECIFICATIONS AND QUALITY ASSURANCE (CONT.)

- D. PLASTIC HINGING ZONES SHALL BE DEFINED BY PERMANENT MARKINGS SUCH AS PAINT OR INK, PER STRUCTURAL DETAILS. E. A NOTE, AS ILLUSTRATED IN STRUCTURAL DETAILS, SHALL BE PROMINENTLY PLACED ON THE STRUCTURAL PLANS AND THE CONSTRUCTION DOCUMENTS OF
- ALL TRADES. F. WELDED, BOLTED, SCREWED, OR SHOT-IN (POWDER DRIVEN) ATTACHMENTS FOR PERIMETER EDGE ANGLES, SHEAR STUDS, EXTERIOR FACADES, PARTITIONS, DUCT WORK, PIPING, OR OTHER CONNECTIONS SHALL NOT BE
- PERMITTED WITHIN THE PLASTIC HINGING ZONES. G. ANY PENETRATIONS OR DAMAGE FROM TEMPORARY WELDED ATTACHMENTS WITHIN THE PLASTIC HINGING ZONES SHALL BE REPAIRED AS REQUIRED BY THE ENGINEER OF RECORD.
- H. INITIALLY, THE PLASTIC HINGING ZONE "WARNING SIGN". AS ILLUSTRATED IN STRUCTURAL DETAILS, MAY BE TEMPORARY. HOWEVER, THE TEMPORARY "WARNING SIGN" SHALL BE REPLACED BY A PERMANENT "WARNING SIGN" BEFORE PROJECTCOMPLETION. THIS SIGN AND IDENTIFICATION OF THE PLASTIC HINGING ZONE SHALL BE MAINTAINED DURING CONSTRUCTION;
- AND MAY REQUIRE REPAIR AFTER OPERATIONS SUCH AS FIREPROOFING. SIGNS SHALL BE AFFIXED TO THE BEAM AND LOCATED WITHIN THE PLASTIC HINGING ZONE. THE CITY BUILDING INSPECTOR MAY ACCEPT ALTERNATE METHODS OF ATTACHING THE "WARNING SIGN" TO THE PLASTIC HINGING ZONE.
- 7. ADDITIONAL CHARPY V-NOTCH TOUGHNESS (NOT REQUIRED FOR OMF) WELDS AT THE LOCATIONS INDICATED BELOW SHALL BE MADE WITH FILLER METAL HAVING A CVN TOUGHNESS OF 20 FT-LBF AT -20 DEGREES FAHRENHEIT AND 40 FT-LBF AT 70 DEGREES FAHRENHEIT AS DETERMINED BY TEST PROCEDURE PRESCRIBED IN THE AISC SEISMIC PROVISIONS. APPENDIX X " WELD METAL / WELDING PROCEDURE SPECIFICATION TOUGHNESS VERIFICATION
- A. BEAM FLANGES TO COLUMNS, B. SINGLE PLATE SHEAR CONNECTIONS TO COLUMNS,

C. BEAM WEBS TO COLUMNS, AND D. COLUMN SPLICES.

- 8. NON-DESTRUCTIVE TESTING (NDT) REQUIREMENTS A. THE MINIMUM NON-DESTRUCTIVE TESTING AT EACH WELD JOINTS OR PARTS SHALL BE CONDUCTED AT THE LOCATIONS AND FREQUENCIES AS SPECIFIED IN TABLE 2 AND TABLE 3 RESPECTIVELY.
  - B. A COPY OF EACH NDT REPORT SHALL BE PROVIDED TO THE CONTRACTOR, ENGINEER OF RECORD, DEPUTY INSPECTOR, AND CITY BUILDING INSPECTOR WITH THE FOLLOWING INFORMATION:
  - I. DOCUMENT THE ACCEPTED AND REJECTED WELDS. PARTS. OR JOINTS. IDENTIFY THE TESTED WELD BY PIECE MARK AND LOCATION IN THE PIECE. III. IDENTIFY THE TESTED WELD LOCATION IN THE STRUCTURE.
  - C. NDT TECHNICIAN SHALL PERFORM THE FOLLOWING TASKS: COORDINATE THE NDT SCOPE AND SCHEDULE WITH THE DEPUTY INSPECTOR PERFORM NDT IN A TIMELY MANNER, SO AS NOT TO HINDER CONSTRUCTION WORK. AND TO DETECT WELDING PROBLEMS SOON AFTER OCCURRENCE SO THAT CORRECTIVE MEASURES WILL BE TAKEN BY THE CONTRACTOR.
  - III. MARK THE INSPECTED AND ACCEPTED WELDS, PARTS, AND JOINTS WITH A DISTINGQUISHING MARK O DIE STAMP.

9. DOCUMENTATIONS THE REPORTS LISTED IN TABLE 1 SHALL BE SUBMITTED TO THE CITY BUILDING INSPECTOR.

# STEEL MOMENT FRAME SPECIFICATION AND QUALITY ASSURANCE (CONT.)

D. STATE IN THE REPORT THAT THE STEEL MOMENT FRAME SYSTEM VISUALLY CONFORMS WITH THE APPROVED STRUCTURAL PLANS AND SPECIFICATIONS.

4. DEPUTY INSPECTION

- THE FOLLOWING ARE THE BASIC QUALITY ASSURANCE RESPONSIBILITIES OF DEPUTY INSPECTORS: A. ARRIVE ON THE JOB IN SUFFICIENT TIME TO VERIFY THE PERMIT INFORMATION, CHECK FOR PRIOR INSPECTIONS AND/OR APPROVALS B CITY BUILDING INSPECTOR OR PREVIOUS DEPUTY INSPECTORS, CHECK
- QUALITY OF ALL MATERIALS AND BECOME FAMILIAR WITH THE APPROV STRUCTURAL PLANS AND SPECIFICATIONS. B. VERIFY THAT STRUCTURAL STEEL DELIVERED IS FROM A FABRICATOR
- CURRENTLY LICENSED BY THE DEPARTMENT. C. IDENTIFY MATERIAL FROM AN OFFSITE FABRICATOR IN ACCORDANCE W LABC SECTION 2203 AND COMPARE TO THE APPROVED PLANS AND SPECIFICATIONS.
- D. VERIFY THAT EACH STEEL PIECE IS LABELED WITH THE APPROVED FABRICATOR'S SHOP NAME AND LICENSE NUMBER.
- VISUAL CHECK SHOP WELDS, JOINT PREPARATION, FAYING SURFACES, STAMPS AND COLOR CODES OF HIGH STRENGTH STEEL, EXCESSIVE I SCALE OR LAMINATION, AND DIMENSIONAL CONFORMITY WITH THE AP PLANS
- ENSURE THAT WELDING COMPLIES WITH AWS D1.1/D1.1M: 2014. G. INSPECT, BEFORE ANY WELDING BEGINS, JOINT PREPARATION, FIT-UP, CONDITION OF SURFACES TO BE WELDED, STORAGE AND USE OF ELEC CURRENT LICENSE OF ALL WELDERS, AND VOLTAGE/AMPERAGE OF WE MACHINES.
- MEASURE VOLTAGE/AMPERAGES NEAR THE ARC WITH A HAND HELD CALIBRATED AVERAGING TYPE METER. THE METER SHALL BE CALIBRATED NOT LESS THAN ONCE A YEAR. THIS EQUIPMENT SHALL BY THE FABRICATOR, ERECTOR, AND DEPUTY INSPECTOR
- DURING WELDING OPERATION, PROVIDE CONTINUOUS INSPECTION PARTICULARLY ON MULTIPLE PASS WELDS TO ASSURE THAT EACH PAS BEEN PREPARED CORRECTLY, PREHEAT AND INTERPASS TEMPERATURES MAINTAINED AND THAT FINISHED WELDS SHALL BE THE CORRECT SIZE WITHOUT REJECTABLE DISCONTINUITIES.
- J. VERIFY TYPE AND SIZE OF BOLTS AND WASHERS, CHECK MILL CERTIFIC AND VERIFY FAYING SURFACES ARE FREE OF BURRS. SCALE, RUST. G OR ANYTHING THAT MAY INHIBIT FULL CONTACT.
- K. VERIFY CONNECTIONS INVOLVING HIGH STRENGTH BOLTS AND WELDS A FABRICATED AND ERECTED IN A SEQUENCE SPECIFIED BY THE ENGIN RFCORD
- L. VERIFY HIGH STRENGTH BOLTS ARE NOT WELDED OR DAMAGED BY PREHEATING.
- M. VERIFY WASHERS ARE ALWAYS INSTALLED WITH ALL BOLTS, EXCEPT A BOLTS WHICH REQUIRE WASHERS UNDER BOTH ELEMENTS.
- PERFORM DEPUTY INSPECTOR OBSERVATION LISTED IN TABLE 6A. O. VERIFY THE ENGINEER OF RECORD HAS APPROVED THE WRITTEN WELD PROCEDURE SPECIFICATION (WPS) PREPARED BY THE FABRICATOR OR ERECTOR. IF VARIES FROM THESE SPECIFICAIONS THE WPS SHALL INCL
- THE FOLLOWING: I. ALL APPLICABLE CODE REQUIREMENTS, THIS STANDARD PLAN, AN OTHER INFORMATION NECESSARY TO PRODUCE THE WELDS.
- II. LIST THE APPLICABLE BASE METAL TYPES AND THICKNESSES. III. LIST THE WELDING JOINT DETAILS, INCLUDING JOINT TYPE, WELD 1 JOINT GEOMETRY, AND APPLICABLE DIMENSIONS. INDIVIDUAL WELL PASSES SHALL BE IDENTIFIED IN SKETCHES AND NUMBERED TO ID THE SEQUENCE OF THEIR DEPOSITION. THE SKETCHES SHALL IDEN MAXIMUM LAYER THICKNESSES AND BEAD WIDTHS. IN NO CASE LAYER THICKNESSES EXCEED 1/4 INCH NOR SHALL THE MAXIMUM WIDTH EXCEED 5/8 INCH.
- IV. LIST THE WELDING PROCESSES.
- V. SPECIFY THE REQUIRED WELDING POSITIONS.

VI. LIST THE FILLER METAL PER AWS D1.1 FOR ELECTRODE SPECIFICAT AND CLASSIFICATION (SEE TABLE 7), AS WELL AS INFORMATION REGARDING SHIELDING MATERIAL TO BE USED.

- VII. INDICATE THE MINIMUM PREHEAT AND INTERPASS TEMPERATURES (3 TABLE 4) AND POST WELD HEAT TREATMENT. VIII. LIST ALL APPLICABLE ELECTRICAL CHARACTERISTICS FOR THE WELDI PROCESS EMPLOYED. WPS SHALL CLEARLY INDICATE THE SPECIFIC
- VALUES REQUIRED FOR EACH WELDING PASS. THESE ELECTRICAL CHARACTERISTICS SHALL INCLUDE AT MINIMUM THE FOLLOWING: (1) ELECTRODE DIAMETER (SEE TABLE 5),
- (2) TYPE OF CURRENT, AND ACCEPTABLE RANGES OF CURRENT MEASURED IN AMPERAGE.
- (3) VOLTAGE,
- (4) TRAVEL SPEED (RANGE), AND (5) AMPERAGE, VOLTAGE AND ELECTRODE EXTENSION (AS APPL SHALL BE WITHIN THE FILLER METAL MANUFACTURER'S

RECOMMENDATIONS. IX. A COPY OF THE ELECTRODE MANUFACTURER'S TECHNICAL INFORMA WITH ID # LISTED SHALL BE ATTACHED TO THE WPS .

- WELD JOINTS NOT CONFORMING TO CHAPTER 3 OF AWS D1.1/D1.1M:20 BE TESTED BY AN APPROVED TESTING AGENCY AND ACCEPTED BY BC ENGINEER OF RECORD AND THE DEPARTMENT'S MATERIAL CONTROL SE
- BEFORE THE WELD IS PERFORMED. Q. NOTIFY THE CONTRACTOR, ENGINEER OF RECORD, AND CITY BUILDING INSPECTOR OF ANY DEVIATIONS OR NON-COMPLIANCE WITH THE APPR
- WPS, PLANS OR SPECIFICATIONS. R. "DEPUTY INSPECTION REPORT FORM B-94" SHALL BE SUBMITTED ON
- BASIS TO THE CITY BUILDING INSPECTOR, UNLESS DETERMINED OTHERWISE BY THE CITY BUILDING INSPECTOR.
- DURING THE EXECUTION OF THE WORK, THE DEPUTY INSPECTOR SHALL UNDERTAKE OR ENGAGE IN ANY OTHER TASK OR OCCUPATION WHICH INTERFERE WITH THE PROPER PERFORMANCE OF THE DUTIES OF SUCH INSPECTION.
- 5. ELECTRODE STORAGE AND ATMOSPHERIC EXPOSURE A. ELECTRODES ARE CONSIDERED TO BE EXPOSED TO THE ATMOSHPERE I. THE MANUFACTURER'S SEALED ELECTRODE CONTAINERS OR PACKAG ARE OPENED OR DAMAGED. OR
  - II. OUTSIDE OF BAKING OR STORAGE OVENS
  - B. MODIFICATION OR LUBRICATION OF ELECTRODES ARE NOT PERMITTED. RECOMMENDED BY THE MANUFACTURER.
  - C. DRYING OF ELECTRODES IN BAKING OR STORAGE OVENS ARE PERMITTE D. ELECTRODES SHALL BE IDENTIFIED TO FACILITATE MONITORING OF TOTA ATMOSPHERIC EXPOSURE TIME.
  - E. STORAGE AND ATMOSPHERIC EXPOSURE OF AWS A5.1-91/A5.5-96 LO
  - HYDROGEN SMAW ELECTRODES SHALL BE IN ACCORDANCE WITH AWS D1.1/D1.1M: 2014 SECTION 5.3.2. F. FCAW ELECTRODES NOT CONSUMED WITHIN 24 HRS OF ACCUMULATED ATMOSPHERIC EXPOSURE TIME SHALL NOT BE USED. MANUFACTURE RECOMMENDATIONS THAT SHOW THAT DRYING EFFECTIVELY REMOVES
  - MOISTURE AND RESTORES ELECTRODES TO THEIR DESIGNATED DIFFUS HYDROGEN LEVELS ARE PERMITTED. G. FCAW ELECTRODE WELDING SUSPENDED MORE THAN 8 HRS SHALL BE REMOVED FROM THE MACHINES AND STORED IN AN ELECTRODE WIRE
  - OR STORAGE OVEN MAINTAINED AT A TEMPERATURE BETWEEN 250 DE AND 550 DEGREE FAHRENHEIT, OR AS RECOMMENDED BY THE ELECT MANUFACTURER.
- 6. PLASTIC HINGING ZONE PROTECTION
  - A. THE PLASTIC HINGING ZONE SHALL BE IDENTIFIED DIAGRAMMATICALLY. DETAILS ON THE STRUCTURAL PLANS BY THE ENGINEER OF RECORD. B. THE ENGINEER OF RECORD AND CONTRACTOR SHALL BE RESPONSIBLE REVIEWING STEEL SHOP DRAWINGS TO ENSURE COMPLIANCE. THIS SH
- DISCUSSED AND DOCUMENTED IN PRE-CONSTRUCTION MEETINGS. C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A PROGRAM TO ENSURE THAT ALL WORKERS ON THE PROJECT, INCLUDING THEIR SUBCONTRACTORS. ARE AWARE OF AND UNDERSTAND THIS REQUIREMENT. FAILURE TO COMPLY WITH THESE REQUIREMENTS MAY CAUSE THE REPLACEMENT OF STEEL.

		REVISIONS DATE
NS )	STEEL MOMENT FRAME SPECIFICATIONS AND QUALITY ASSURANCE	
/	A. GENERAL REQUIREMENTS	
	1. CODES: THE DESIGN AND CONSTRUCTION OF STEEL MOMENT FRAMES SHALL BE IN	
OF THE	COMPLIANCE WITH THE FOLLOWING CODES: A. 2022 CBC & 2021 IBC. B. AISC SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS, PART I (LRFD)	
BY THE K THE	AND PART III (ASD), DATED MAY 21, 2014, AND C. AWS D1.1/D1.1M:2014 STRUCTURAL WELDING CODE – STEEL.	
OVED	2. MATERIAL SPECIFICATIONS A. STRUCTURAL STEEL SHALL COMPLY WITH UBC STANDARD 22-1 AND THE	
WITH	FOLLOWING ASTM STANDARD SPECIFICATIONS: I. WIDE FLANGE SHAPESASTM A572 (50), A992 (50) IN MOMENT	
	FRAMES II. CONTINUITY, DOUBLER AND COLUMN BASE PLATES, SHEAR TABSASTM A36 III. ANCHOR BOLTS AT COLUMN BASE PLATES	
, INDENT	IV. FABRICATE AND ERECT STRUCTURAL STEEL IN COMPLIANCE WITH EITHER THE 2016 EDITION OF AISC "LOAD AND RESISTANCE FACTOR	
MILL APPROVED	SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" B. HIGH STRENGTH BOLTS SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS AND ASTM STANDARD SPECIFICATIONS:	
ectrodes,	I. HIGH STRENGTH BOLTS, THREADED RODS, NUTS, AND WASHERSASTM A325, A490 II. SHALL BE INSTALLED IN ACCORDANCE WITH THE "SPECIFICATIONS FOR	
VELDING	STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS." III. SHALL BE TIGHTEN TO A SNUG TIGHT CONDITION THAT IS AT LEAST THE	
l be used	MINIMUM PROPER TENSION AND VERIFIED USING A CALIBRATED TENSION MEASURING DEVICE. IV. SHALL BE SLIP CRITICAL HIGH STRENGTH BOLTS.	email
	V. ALL FAYING SURFACES OF CONNECTIONS WITH HIGH STRENGTH FASTENERS SHALL BE PREPARED AS REQUIRED FOR CLASS A PER THE 2014 AISC	
PASS HAS RES ARE ZE AND	SEISMIC PROVISION, SECTION 7.2. C. FILLER METAL PROPERTIES AND SPECIFICATIONS SHALL BE AS FOLLOWS: I. ELECTRODES SHALL BE OF A LOW-HYDROGEN TYPE CONFORMING TO AWS	
FICATES, GREASE	SPECIFICATIONS AS REFERENCED IN TABLE 7 ON SHEET 1.3. II. FILLER METALS SHALL BE CLASSIFIED FOR NOMINAL 70 KSI TENSILE STRENGTH.	L ral E st., wo gineering
ARE	III. THE MAXIMUM PERMITTED ELECTRODE DIAMETER SHALL BE PER TABLE 5 ON SHEET 1.3.	ed dirt
INEER OF	IV. FILLER METALS SHALL HAVE A MINIMUM CHARPY V-NOTCH (CVN) TOUGHNESS OF 20 FT-LBF AT -20°F USING AWS A5 CLASSIFICATION TEST METHODS.	e c c c c c c c c c c c c c c c c c c c
A-490	V. THE USE OF INTERMIXED WELDS SHALL NOT OCCUR UNLESS IT CAN BE DEMONSTRATED BY TESTING IN ACCORDANCE WITH AWS D1.1/D1.1M: 2014 SECTION 4.	Stru 23006 [ (818) jack@hj
DING	VI. THE PARAMETERS ESTABLISHED BY THE ELECTRODE MANUFACTURER SHALL BE REFLECTED IN THE WPS.	
or Iclude	D. OTHER MATERIALS NOT LISTED IN UBC STANDARD 22–1 OR LABC CHAPTER 35 ARE NOT PERMITTED WITHOUT SPECIFIC APPROVAL FROM THE DEPARTMENT. STEEL HAVING DUAL ASTM DESIGNATION SHALL BE CLEARLY IDENTIFIED ON	NOT FOR CONSTRUCTION UNTIL SIGNED BY ENGINEER
AND ANY	EACH SPECIFIC PLAN DETAIL. E. ALL STRUCTURAL STEEL SHALL BE ONE SHOP COAT & FIELD TOUCH-UP	PROFESSION
TYPE, ELD	WITH RED LEAD (OR APPROVED ZINC CHROMATE PRIMER) AS NECESSARY. (FIELD PAINTING: TOUCH –UP ALL DAMAGED PAINT, BOLTS & WELDS). PROVIDE HOT DIP GALVANIZING OR 3" MINIMUM CONCRETE COVER AROUND ALL	AU OF J. 440 - 140
IDENTIFY ENTIFY THE E SHALL	STRUCTURAL STEEL BELOW GRADE. F. BASEPLATE GROUT SHALL HAVE A CURRENT LARR NUMBER. USE EMBECO 885	S Z Z Z Z L x No. 84917 Exp. 03-31-24 x x x x
JM BEAD	OR EQUIVALENT. G. ALL STEEL BEAMS SHALL HAVE 1/4" PLATE WEB STIFFENERS AT 1/3 POINTS OF THEIR SPANS. TWO PLACES MINIMUM PER BEAM.	PATE OF CALLFORN
ATION	<ul> <li>H. COLUMNS &amp; BEAMS SHALL HAVE 1/2" DIA. STUDS WELDED AT 24" O.C. FOR</li> <li>WOOD NAILER ATTACHMENTS—TYPICAL.</li> <li>I. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE PERMITTED.</li> </ul>	
Ν	J. ALL HEADED STUDS (FOR CONCRETE ANCHORAGE) SHALL BE MANUFACTURED	
(SEE .DING	BY "NELSON" OR APPROVED EQUAL. 3. WELDING PROCESSES	N N N N N N N
FIC AL	STRUCTURAL WELDING SHALL BE LIMITED TO THE SHIELDED METAL ARC WELDING OR FLUX CORED ARC WELDING PROCESSES. ALL WELDING TO BE	LANI A 012
IT	DONE BY QUALIFIED & CERTIFIED WELDERS. 4. BASE METAL REPAIRS OR RESTORATIONS	RIA L 64-(C/
	ANY REPAIR OR RESTORATION OF BASE METAL SHALL COMPLY WITH ALL OF THE FOLLOWING: A. AWS D1.1/D1.1M:2014, SECTION 5.26, AND ASTM A6/A6M-02, SECTION	ГЕШЛІ
PLICABLE)	9.2, 9.3, 9.4 AND 9.5, B. ENGINEER OF RECORD SHALL REVIEW AND APPROVE THE WPS FOR REPAIR	LE AN JO : 654
MATION	PROCEDURES PRIOR TO WELDING, C. ALL WELDING SHALL BE PERFORMED USING LOW-HYDROGEN PROCESS OR WITH SMAW USING LOW-HYDROGEN ELECTRODES,	N:SA N:SA N:SA N:SA N:SA N:SA N:SA N:SA
2014 MUST BOTH THE	D. PROVIDE CONTINUOUS VISUAL INSPECTION BY THE DEPUTY INSPECTOR, AND E. PROVIDE NON-DESTRUCTIVE TESTING.	APN: APN: APN:
SECTION	5. DEVIATIONS FROM THE STANDARD QUALITY ASSURANCE PLAN WHEN DEVIATIONS FROM THE STANDARD QA PLAN ARE MADE, COMPLY	JAMES Bel
PROVED	WITH ALL OF THE FOLLOWING: A. DEVIATIONS FROM THIS STANDARD QA PLAN SHALL BE APPROVED BY THE DEPUTY INSPECTOR AND CITY BUILDING INSPECTOR PRIOR TO	
I A WEEKLY	COMMENCEMENT OF WORK. B. ALTERNATE PROCEDURES, SPECIFICATIONS, OR DETAILS SHALL BE REVIEWED	
LL NOT CH WILL	AND APPROVED BY THE ENGINEER OF RECORD. C. SUPPLEMENTAL TESTING AND ADDITIONAL SPECIFICATIONS MAY BE REQUIRED TO APPROVE ALTERNATE PROCEDURES, SPECIFICATIONS, OR DETAILS.	
JCH	D. CONFORMANCE WITH ALL APPLICABLE PROVISIONS OF THE AWS D1.1/D1.1M: 2014 IS REQUIRED.	
E IF:	B. QUALITY ASSURANCE	S
AGINGS	1. CERTIFICATION A. INSPECTORS SHALL BE CERTIFIED DEPUTY INSPECTORS B. WELDERS SHALL BE CERTIFIED WELDERS FOR THE STRUCTURAL STEEL	Ĕ
TED AS	CLASSIFICATION C. SHOP WELDS SHALL BE PERFORMED IN A CERTIFIED FABRICATOR'S	9
TAL	SHOP D. TECHNICIANS PERFORMING NDT SHALL BE CERTIFIED FOR LEVEL II IN ACCORDANCE WITH ASNT SNT-TC-1A 2016 EDITION BY AN APPROVED TESTING	Z
_OW− /S	AGENCY 2. PRE-CONSTRUCTION MEETING	<b>IA</b>
) RER'S IS	A. THE OWNER (OR OWNER'S REPRESENTATIVE) SHALL ARRANGE A PRE- CONSTRUCTION MEETING(S) WITH THE ENGINEER OF RECORD, THE CONTRACTOR	E E E E E E E E E E E E E E E E E E E
.S USIBLE	(OR AFFECTED SUB-CONTRACTOR), AND THE DEPUTY INSPECTOR TO DISCUSS AND REVIEW WELDING PROCEDURES, BOLTING PROCEDURES, AND INSPECTION	Z
e E baking Degrees	REQUIREMENTS. 3. STRUCTURAL OBSERVATION	<b>Б</b>
CTRODE	STRUCTURAL OBSERVATION SHALL BE PERFORMED THE STRUCTURAL OBSERVER SHALL: A. PERFORM STRUCTURAL OBSERVATION LISTED IN TABLE 6B,	
r, IN	PLUS REVIEW & APPROVE STEEL SHOP DRAWINGS GIVEN BY CONTRACTOR TO ENGINEER OF RECORD.	PROJECT NUMBER: 23B03
E FOR SHALL BE	B. PERFORM STRUCTURAL OBSERVATION OF STEEL & COMPLETED WELDING PRIOR TO PLACEMENT OF DECKING, COVERING BY FIREPROOFING, ENCASEMENT IN CONCRETE OR PLACEMENT OF OTHER FINISHES.	PROJ. ENG. / DRAWN: JH
RAM TO	C. SUBMIT OBSERVATION REPORT(S) TO THE CITY BUILDING INSPECTOR (THROUGH CONTRACTOR) AT EACH STAGE OBSERVED AND UPON COMPLETION OF THE	JH_ DATE:

C. SUBMIT OBSERVATION REPORT(S) TO THE CITY BUILDING INSPECTOR (THROUGH CONTRACTOR) AT EACH STAGE OBSERVED AND UPON COMPLETION OF THE STRUCTURAL SYSTEM.

SCALE:

SHEET NUMBER:

DEC. 10, 2023

AS NOTED

DATE

# TABLE 6B. STRUCTURAL OBSERVATION CHECKLIST DEPUTY INSPECTOR OBSERVATION PROGRAM (STEEL MOMENT FRAME FOR SEISMIC APPLICATION)

1. REMOVAL OF BACKING BARS, AS REQUIRED ON THE PLANS & DETAILS
2. PRESENCE OF CONTINUITY PLATES, AS REQUIRED ON THE PLANS & DI
3. PRESENCE OF DOUBLER PLATES, AS REQUIRED ON THE PLANS & DET.
4. VERIFY THAT NO WELDED ATTACHMENTS OCCUR IN THE PLASTIC HING
5. REVIEW NDT REPORTS FOR GENERAL COMPLIANCE.

NOTES:

1. WELD QUALITIES SHALL BE VERIFIED BY THE DEPUTY INSPECTOR.

2. THE OBSERVATIONS LISTED IN THIS TABLE ARE IN ADDITION TO THE OBSERVATIONS THAT MAY BE REQUIRED ON THE STRUCTURAL PLANS.

# TABLE 7. PREQUALIFIED BASE METAL - FILLER METAL COMBINATIONS FOR MATCHING STRENGTH (1, 2, 3, 4)

BA		FILLER METAL				
GROUP	STEEL SPECIFICATION	WELDING PROCESS	AWS ELECTRODE SPECIFICATION	ELECTRODE CLASSIFICATION		
		SMAW	A5.1	E70XX		
	ASTM A36 < 3/4 IN.	SMAW	A5.5 (6)	E70XX-X		
		FCAW	A5.20 (5)	E70XT-X, E7XT-XM		
			A5.29 (6)	E70XTX-X, E7XTX-XM		
	ASTM A36 & 3/4 IN. ASTM A572 GRADE 50 ASTM A913 GRADE 50 ASTM A992	SMAW	A5.1	E7015, E7016, E7018, E7028		
			A5.5 (6)	E70XX-X		
		FCAW	A5.20 (5)	E70XT-X, E7XT-XM		
			A5.29 (6)	E70XTX-X, E7XTX-XM		
RELATIONSHIP	BASE METAL (S)			TAL STRENGTH HIP REQUIRED		
	ANY STEEL TO ITSELF OR ANY STEEL TO ANOTHER IN THE SAME GROUP		. ANY FILLER METAL LISTED IN THE SAME GROUP			
MATCHING	ANY STEEL IN ONE GROUP 1 STEEL IN ANOTHER	O ANY	ANY FILLER METAL LISTED FOR A LOWER STRENGTH GROUP [SMAW ELECTRODES SHALL BE THE LOW- HYDROGEN CLASSIFICATION]			
UNDER- MATCHING	ANY STEEL TO ANY STEEL T	O ANY				

NOTES:

1. THE BASE METAL/FILLER METAL STRENGTH RELATIONSHIPS ABOVE SHALL BE USED TO DETERMINE WHETHER MATCHING OR UNDER-MATCHING FILLER METALS ARE REQUIRED. REFER TO AWS D1.1/D1.1M: 2002, SECTION 3.3.

2. PREHEATING OF JOINTS INVOLVING BASE METALS OF DIFFERENT GROUPS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS APPLICABLE TO THE HIGHER STRENGTH GROUP. 3. WHEN WELDS ARE TO BE STRESS-RELIEVED, THE DEPOSITED WELD METAL SHALL NOT EXCEED 0.05 PERCENT

VANADIUM. 4. ADAPTED WITH PERMISSION FROM THE AWS D1.1 COMMITTEE ON STRUCTURAL WELDING, STRUCTURAL WELDING

CODE - STEEL, AWS D1.1/D1.1M: 2002, MIAMI: AMERICAN WELDING SOCIETY, TABLE 3.1.

AND ELECTRODES WITH THE -11 SUFFIX SHALL BE EXCLUDED FOR THICKNESSES GREATER THAN 1/2 IN.

6. FILLER METALS OF ALLOY GROUP B3, B3L, B4, B4L, B5, B5L, B6, B6L, B7, B7L, B8, B8L, B9, OR ANY BXH GRADE IN AWS A5.5 OR A5.29 ARE NOT PREQUALIFIED FOR USE IN THE AS-WELD CONDITION.

TAILS	
ILS	
NG REGION.	

5. FCAW ELECTRODES WITH THE -2, -2M, -3, -4, -7, -10, -11, -13, -14, G, -GS SUFFIX SHALL BE EXCLUDED

TABLE	5. PREQUA	ALIFIED WPS I	REQUIREMEN	NTS (1, 2, 3)	
VARIABLE	POSITION OF WELD	WELD TYPE	SMAW	FCAW	
		FILLET (4)	5/16 IN.		
	FLAT (F)	GROOVE (4)	1/4 IN.	1/8 IN.	
ΜΑΧΙΜυΜ		ROOT PASS	3/16 IN.		
ELECTRODE DIAMETER		FILLET	1/4 IN.		
	HORIZONTAL (H)	GROOVE	3/16 IN.	1/8 IN.	
	VERTICAL (V)	ALL	3/16 IN.	3/32 IN.	
	OVERHEAD (OH)	ALL	3/16 IN.	5/64 IN.	
	ALL	FILLET			
		GROOVE WELD ROOT PASS WITH OPENING			
MAXIMUM CURRENT	ALL	GROOVE WELD ROOT PASS WITHOUT OPENING	THE FILLER METAL MANUFACTURER AND A WPS APPROVED	OPERATION BY THE FILLER METAL MANUFACTURER AND A WPS APPROVED	
		GROOVE WELD FILL PASSES	BY ENGINEER OF RECORD.	BY ENGINEER OF RECORD.	
		GROOVE WELD CAP PASS			
	FLAT (F)		3/8 IN.	3/8 IN.	
MAXIMUM ROOT	HORIZONTAL (H)		5/16 IN.	5/16 IN.	
PASS THICKNESS (5)	VERTICAL (V)	ALL	1/2 IN.	1/2 IN.	
	OVERHEAD (OH)		5/16 IN.	5/16 IN.	
MAXIMUM FILL PASS THICKNESS	ALL	ALL	3/16 IN.	1/4 IN.	
	FLAT (F)		3/8 IN.	1/2 IN.	
MAXIMUM SINGLE	HORIZONTAL (H)		5/16 IN.	3/8 IN.	
PASS FILLET WELD SIZE	VERTICAL (V)	FILLET	1/2 IN.	1/2 IN.	
	OVERHEAD (OH)		5/16 IN.	5/16 IN.	
MAXIMUM SINGLE		ROOT OPENING >1/2 IN.		SPLIT LAYERS	
PASS LAYER WIDTH	ALL	ANY LAYER OF WIDTH W	NOT APPLICABLE.	(6)	

	TABLE Z. NON-DESTRUCTIVE TEST LOCATIONS				
	REQUIRED LOCATIONS	OMF	IMF	SMF	
1.	CJP GROOVE WELD ULTRASONIC TEST SHALL BE PERFORMED ON ALL CJP GROOVE WELDS IN MATERIALS 5/16 INCH (8 MM) THICK OR GREATER. IN ADDITION, MAGNETIC PARTICLE TEST SHALL BE PERFORMED ON ALL BEAM-TO-COLUMN CJP GROOVE WELDS.	В	A	A	
2.	"K" AREA WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES, OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, THE WEB SHALL BE TESTED FOR CRACKS USING MAGNETIC PARTICLE TESTING. THE MAGNETIC PARTICLE TEST AREA SHALL INCLUDE THE K-AREA BASE METAL WITHIN 3 IN. (75 MM) OF THE WELD.	С	В	В	
3.	BEAM COPE AND ACCESS HOLE AT WELDED SPLICES AND CONNECTIONS, THERMALLY CUT SURFACES OF BEAM COPES AND ACCESS HOLES SHALL BE TESTED USING MAGNETIC PARTICLE TESTING, WHEN THE FLANGE THICKNESS EXCEEDS 1-1/2 IN. (38 MM) FOR ROLLED SHAPES.	С	В	В	
4.	REDUCED BEAM SECTION REPAIR MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON ANY WELD AND ADJACENT AREA OF THE RBS PLASTIC HINGE REGION THAT HAS BEEN REPAIRED BY WELDING, OR ON THE BASE METAL OF THE RBS PLASTIC HINGE REGION IF A SHARP NOTCH HAS BEEN REMOVED BY GRINDING.	В	В	A	
5.	BASE METAL LAMELLAR TEARING AND LAMINATIONS AT CJP GROOVE WELD BASE METAL THICKER THAN $1-1/2$ IN. (38 MM) SHALL BE ULTRASONICALLY TESTED FOR DISCONTINUITIES BEHIND AND ADJACENT TO THE FUSION LINE WHEN THE BASE METAL IS LOADED IN TENSION IN THE THROUGH THICKNESS DIRECTION IN TEE AND CORNER JOINTS AND THE CONNECTED MATERIAL IS GREATER THAN $3/4$ IN. (19 MM). ANY BASE METAL DISCONTINUITIES FOUND WITHIN T/4 OF THE STEEL SURFACE SHALL BE ACCEPTED OR REJECTED ON THE BASIS OF CRITERIA OF AWS D1.1 TABLE 6.2, WHERE T IS THE THICKNESS OF THE PART SUBJECTED TO THE THROUGH-THICKNESS STRAIN.	В	В	A	
6.	END OF WELD AT WELD TAB REMOVAL SITE MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON THE END OF WELDS FROM WHICH THE WELD TABS HAVE BEEN REMOVED, EXCEPT FOR CONTINUITY PLATE WELD TABS.	с	В	В	
7.	PJP GROOVE WELD ULTRASONIC TESTING SHALL BE PERFORMED ON PJP GROOVE WELDS USED IN COLUMN SPLICES WITH AN EFFECTIVE THROAT OF 3/4 IN. (19.1 MM) THICK OR GREATER.	с	В	A	

NOTE: A, B, AND C ARE THE FREQUENCIES OF NON-DESTRUCTIVE TESTS LISTED IN TABLE 3. OMF, IMF OR SMF CONNECTION NOTED IN STRUCTURAL DETAILS

6. IN THE F, H, OR OH POSITIONS FOR NONTUBULARS, SPLIT LAYERS WHEN THE LAYER WIDTH W > 5/8 INCH. IN THE V POSITION FOR NONTUBULARS OR THE 5G OR 6G FOR TUBULARS, SPLIT LAYERS WHEN THE WIDTH W > 1 INCH.

APPLICABLE PROVISIONS OF AWS D1.1/D1.1M: 2002 SECTION 3 "PREQUALIFICATION OF WPSS" MUST BE MAINTAINED FOR PREQUALIFIED STATUS OF SMAW AND FCAW WPSS.

ADAPTED WITH PERMISSION FROM THE AWS D1.1 COMMITTEE ON STRUCTURAL WELDING, STRUCTURAL WELDING CODE – STEEL, AWS D1.1/D1.1M: 2002, MIAMI: AMERICAN WELDING SOCIETY, TABLE 3.7.

2. REFER TO DETAIL ON SHEET FOR DIAGRAM OF WELD PASS SEQUENCE.

5. SEE AWS D1.1/D1.1M: 2002, SECTION 3.7.2, FOR WIDTH-TO-DEPTH LIMITATIONS.

TABLE	6A. DEPUTY INSPECTOR OBSERVATION CHECKLIST
	DEPUTY INSPECTOR OBSERVATION PROGRAM (STEEL MOMENT FRAME FOR SEISMIC APPLICATION)
1. REMOVAL	L OF BACKING BARS, AS REQUIRED ON THE PLANS & DETAILS
2. REMOVAL	L OF RUNOFF TABS, AS REQUIRED ON THE PLANS & DETAILS
3. PRESENC	CE OF CONTINUITY PLATES, AS REQUIRED ON THE PLANS & DETAILS
4. PRESENC	CE OF DOUBLER PLATES, AS REQUIRED ON THE PLANS & DETAILS
-	

5. CONFIGURATION AND FINISH OF WELD ACCESS HOLES, IF APPLICABLE. 6. CONTOUR OF RBS PROFILE, IF APPLICABLE. 7. VERIFY THAT NO WELDED ATTACHMENTS OCCUR IN THE PLASTIC HINGING REGION. 8. REVIEW NDT REPORTS FOR GENERAL COMPLIANCE.

NOTES:

NOTES:

4. EXCEPT ROOT PASSES.

1. WELD QUALITIES SHALL BE VERIFIED BY THE DEPUTY INSPECTOR.

2. THE OBSERVATIONS LISTED IN THIS TABLE ARE IN ADDITION TO THE OBSERVATIONS THAT MAY BE REQUIRED ON THE STRUCTURAL PLANS.

NOTES:

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ASTM A36 ASTM A572 ASTM A913 ASTM A992

NOTES: MOISTURE.

# TABLE 1. REPORTS TO BE SUBMITTED TO THE CITY BUILDING INSPECTOR

PREPARED BY	TYPE OF REPORT
STRUCTURAL OBSERVER(S)	STRUCTURAL OBSERVATION REPORTS
DEPUTY INSPECTOR(S)	DEPUTY INSPECTION REPORTS
NDT TECHNICIAN(S)	NON-DESTRUCTIVE TESTING REPORTS

# TABLE 2 NON-DESTRUCTIVE TEST LOCATIONS

# TABLE 3. NON-DESTRUCTIVE TEST FREQUENCY

	FREQUENCY DESIGNATION		
	A B C		С
ULTRASONIC TESTING (UT)	100% OF JOINTS	50% OF JOINTS	25% OF JOINTS
MAGNETIC PARTICLE TESTING (MT)	50% OF JOINTS	25% OF JOINTS	NOT REQUIRED

1. REFER TO TABLE 2 FOR LOCATIONS OF NON-DESTRUCTIVE TESTING.

2. RATE OF NON-DESTRUCTIVE TESTING MAY BE REDUCED AS PERMITTED IN SHEET 1, PART IV, ITEM 8(D).

# TABLE 4. PREQUALIFIED MINIMUM PREHEAT AND INTERPASS TEMPERATURE

STEEL CIFICATION	WELDING PROCESS	THICKNESS OF THICKEST PART AT POINT OF WELDING (in.)	MINIMUM PREHEAT AND INTERPASS TEMPERATURE ( °F)
2	SMAW WITH LOW-HYDROGEN ELECTRODES, FCAW	1/8 TO 3/4 INCL.	32
72 CRADE 50		OVER 3/4 TO 1-1/2 INCL.	50
3 CRADE 50		OVER 1-1/2 TO 2-1/2 INCL.	150
		OVER 2-1/2	225

1. SURFACES TO BE WELDED AND SURFACES ADJACENT TO WELDS SHALL BE FREE OF MOISTURE PURSUANT TO AWS D1.1/D1.1M: 2002 SECTION 5.15. USE A HIGHER PREHEAT TEMPERATURE FROM THIS TABLE TO REMOVE 2. ADAPTED WITH PERMISSION FROM THE AWS D1.1 COMMITTEE ON STRUCTURAL WELDING, STRUCTURAL WELDING CODE - STEEL, AWS D1.1/D1.1M: 2002, MIAMI: AMERICAN WELDING SOCIETY, TABLE 3.2.

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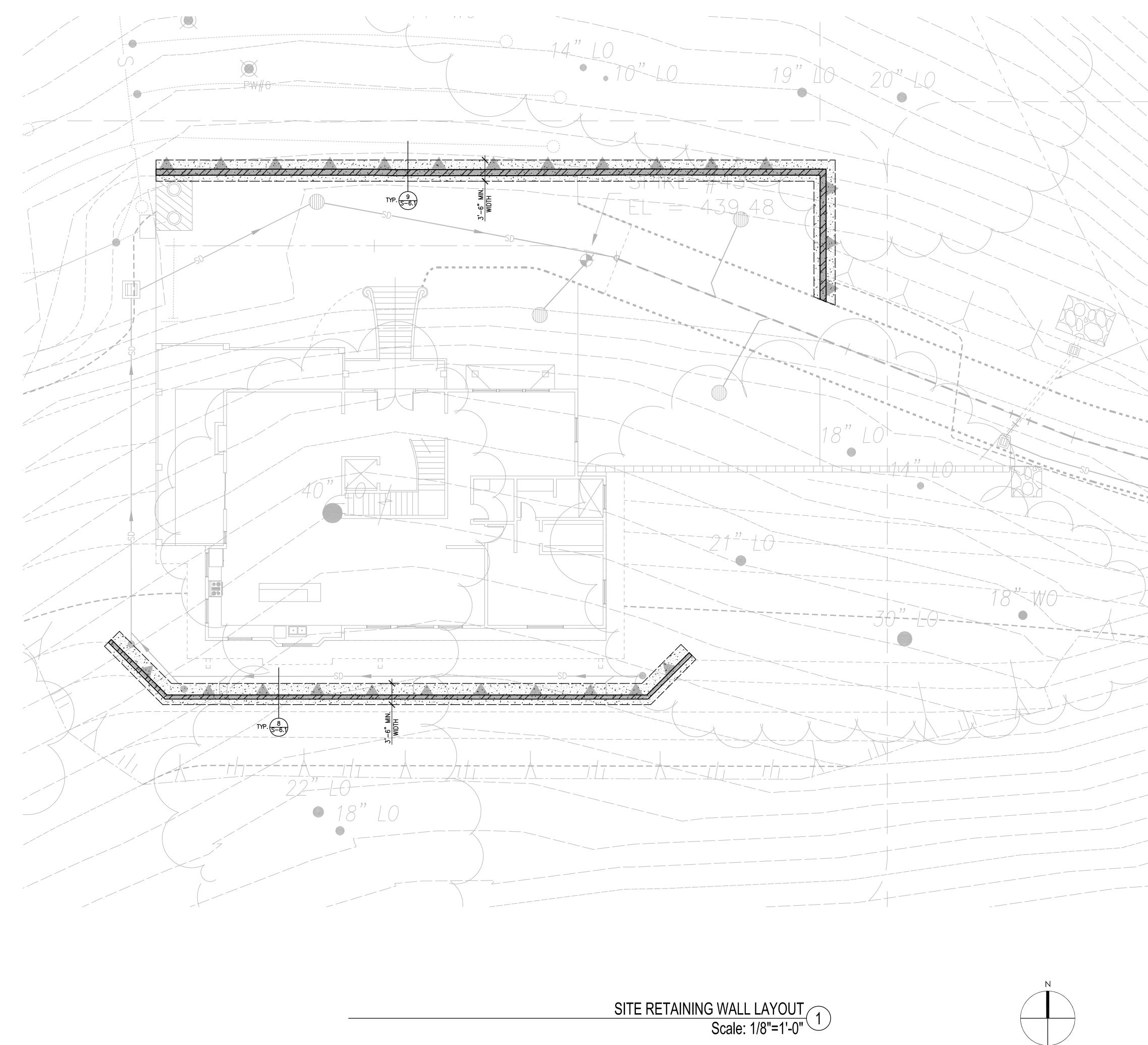






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# FOUNDATION NOTES

- 1. REFER TO THE ARCHITECTURAL AND CIVIL DRAWINGS FOR ALL DIMENSIONS, SLAB DEPRESSIONS, CURBS AND ELEVATIONS.
- SOIL REPORT# 23062C-01L2, BY C2EARTH INC., DATED OCTOBER 12, 2023 IS CONSIDERED A PART OF THESE PLANS. C2EARTH INC., IS LOCATED AT 750 CAMDEN AVE. #A, CAMBELL, CA 95008 TEL: (408)-866-5436
- 3. <u>GEOTECHNICAL ENGINEER OF RECORD SHALL REVIEW STRUCTURAL</u> <u>FOUNDATION PLANS, GRADING PLANS, AND SPECIFICATIONS.</u> <u>GEOTECHNICAL ENGINEER SHALL FURNISH A SIGNED AND STAMPED</u> <u>LETTER STATING THAT THE PLANS HAVE BEEN REVIEWED AND THAT</u> <u>THE RECOMMENDATIONS IN THE SOIL REPORT ARE PROPERLY</u> <u>INCORPORATED INTO THE PLANS. ANY DISCREPANCIES NOTED BY</u> THE GEOTECHNICAL ENGINEER IN HIS/HER REVIEW LETTER SHOULD BE REFLECTED BY REVISIONS TO THE RESUBMITTED PLANS. GEOTECHNICAL ENGINEER SHALL INCLUDE THE SHEET NUMBERS REVIEWED AND DATE OF DRAWING.
- 4. BEARING MATERIAL IS BEDROCK MAXIMUM ALLOWABLE BEARING PRESSURE IS 4000 PSF MINIMUM EMBEDMENT DEPTH IS 12" INTO UNDERLYING SUPPORTIVE BEDROCK BELOW THE PLANE AT WHICH THERE IS A MIN. 5'-0" HORIZONTAL SEPARATION BETWEEN THE DOWNHILL FACE OF THE FOOTING AND THE SURFACE OF BEDROCK.
- 5. EXCAVATIONS SHALL BE MADE IN COMPLIANCE WITH CAL/OSHA REGULATIONS.
- 6. ALL FOUNDATION EXCAVATIONS MUST BE OBSERVED AND APPROVED BY SOIL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL.
- 7. LEGEND: = 8" BLOCK WALL AND FOUNDATION

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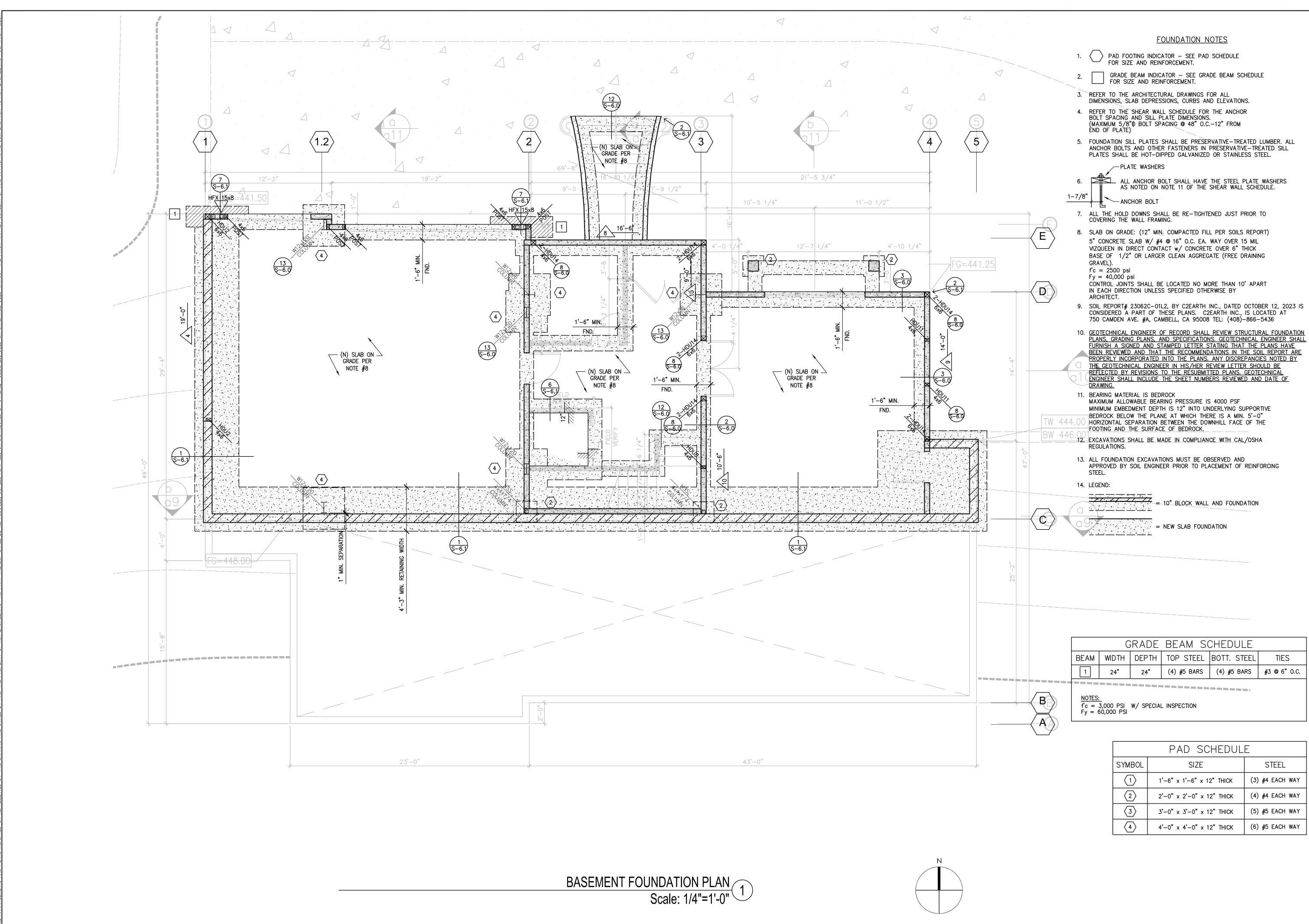
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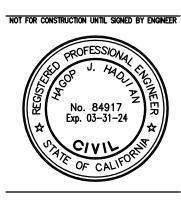
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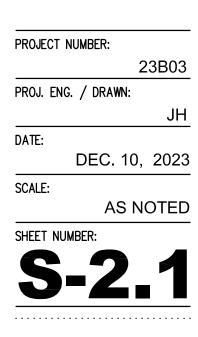
PAD SCHEDULE				
SYMBOL	SIZE	STEEL		
$\langle 1 \rangle$	1'-6" x 1'-6" x 12" THICK	(3) <b>#</b> 4 EACH WAY		
2	2'-0" x 2'-0" x 12" THICK	(4) #4 EACH WAY		
$\langle 3 \rangle$	3'-0" × 3'-0" × 12" THICK	(5) <b>#</b> 5 EACH WAY		
4	4'-0" × 4'-0" × 12" THICK	(6) <b>#</b> 5 EACH WAY		

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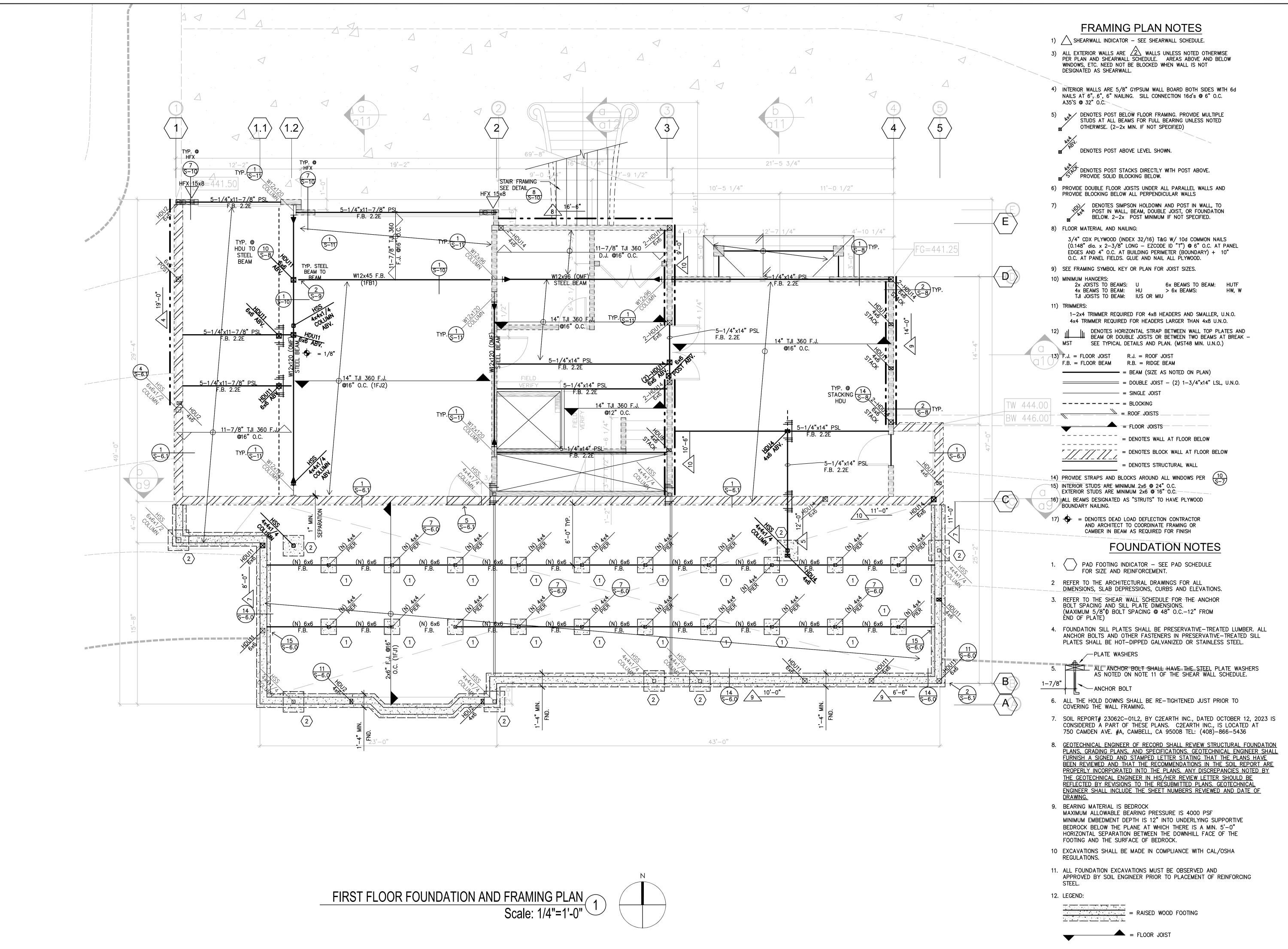


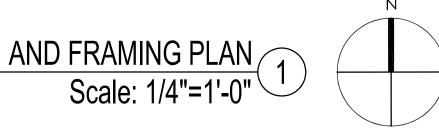


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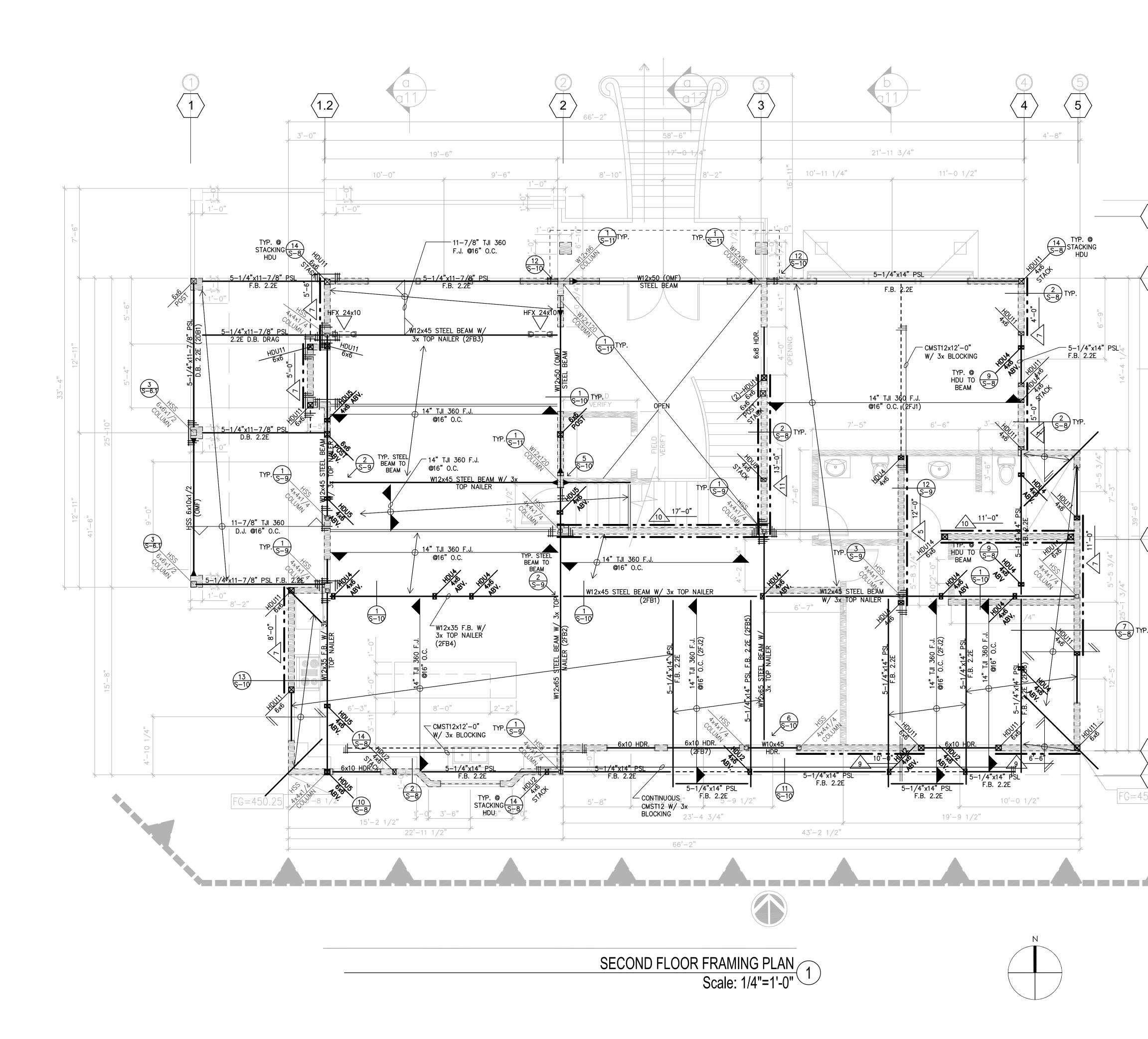
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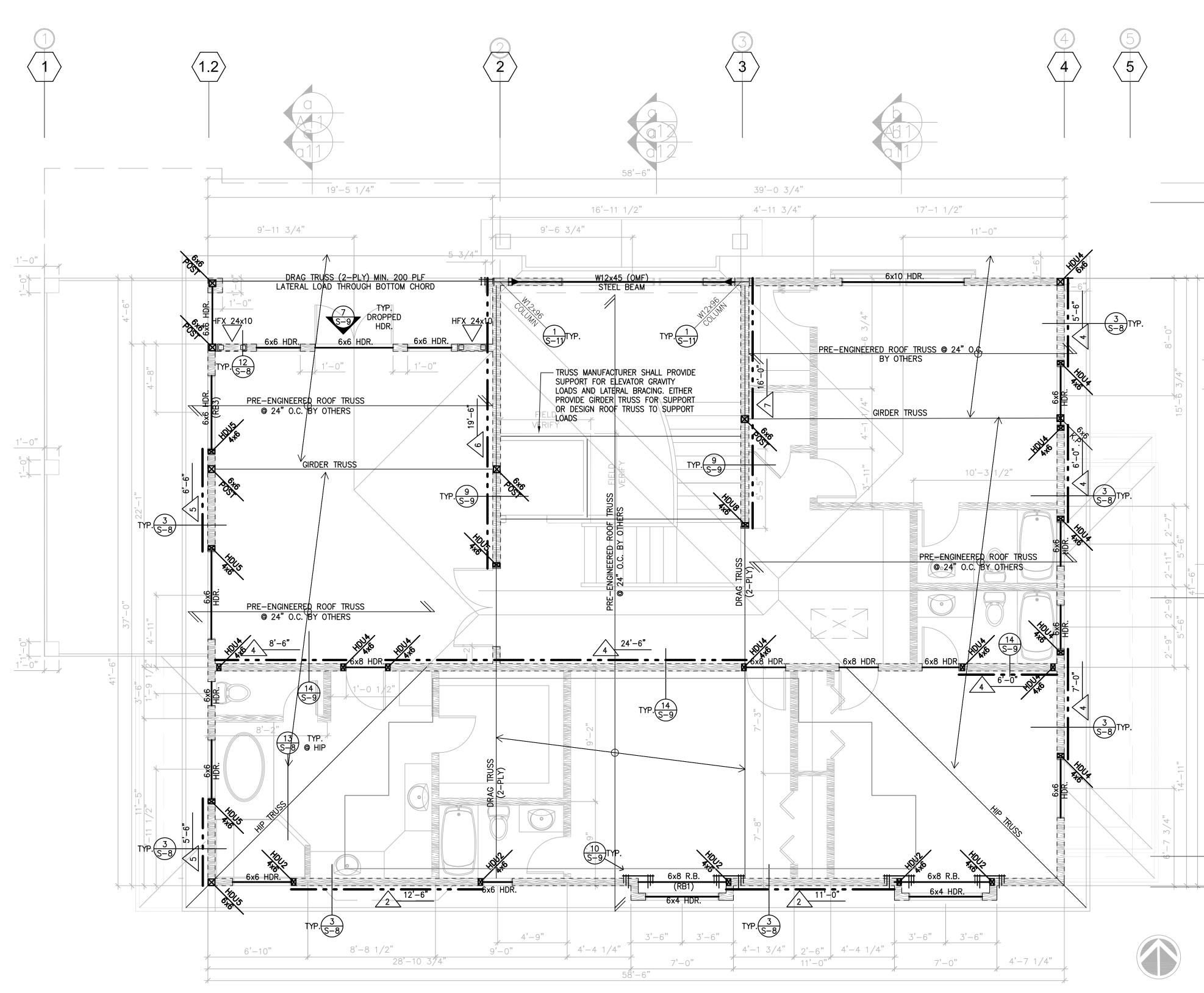
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		REVISIONS DATE
	FRAMING PLAN NOTES	
	1) A SHEARWALL INDICATOR - SEE SHEARWALL SCHEDULE.	
	3) ALL EXTERIOR WALLS ARE 2 WALLS UNLESS NOTED OTHERWISE PER PLAN AND SHEARWALL SCHEDULE.	
	<ul> <li>4) INTERIOR WALLS ARE 5/8" GYPSUM WALL BOARD BOTH SIDES WITH 6d</li> <li>NAILS AT 6", 6", 6" NAILING. SILL CONNECTION 16d's @ 6" O.C.</li> <li>A35'S @ 32" O.C.</li> </ul>	
	5) DENOTES POST BELOW FLOOR FRAMING. PROVIDE MULTIPLE STUDS AT ALL BEAMS FOR FULL BEARING UNLESS NOTED OTHERWISE. (2-2× MIN. IF NOT SPECIFIED)	
	DENOTES POST ABOVE LEVEL SHOWN.	on sultants
	DENOTES POST STACKS DIRECTLY WITH POST BELOW. PROVIDE SOLID BLOCKING BELOW.	
	6) PROVIDE DOUBLE FLOOR JOISTS UNDER ALL PARALLEL WALLS AND PROVIDE BLOCKING BELOW ALL PERPENDICULAR WALLS	
	7) DENOTES SIMPSON HOLDOWN AND POST IN WALL, TO POST IN WALL, BEAM, DOUBLE JOIST, OR FOUNDATION BELOW. 2-2x POST MINIMUM IF NOT SPECIFIED.	
E	8) FLOOR MATERIAL AND NAILING:	
	3/4" CDX PLYWOOD (INDEX 32/16) T&G W/ 10d COMMON NAILS (0.148" dia. x 2—3/8" LONG — EZCODE ID "T") © 6" O.C. AT PANEL EDGES AND 4" O.C. AT BUILDING PERIMETER (BOUNDARY) + 10" O.C. AT PANEL FIELDS. GLUE AND NAIL ALL PLYWOOD.	Engine oodland Hills, 72 tel g.com ema
	ROOF MATERIAL AND NAILING:	H □ 2 8572 ering.0
	5/8" CDX PLYWOOD (INDEX 32/16) W/ 10d COMMON NAILS (0.148" DIA. x 2–1/4" LONG – EZCODE ID "S") $@$ 6" O.C. AT PANEL EDGES AND 12" O.C. @ PANEL FIELDS. ROOF DIAPHRAGM NAILING TO BE INSPECTED BEFORE COVERING.	turo 819-
	9) SEE FRAMING SYMBOL KEY OR PLAN FOR JOIST SIZES.	Struc 23006 Erv jack@hjhe
a	10) MINIMUM HANGERS: 2x JOISTS TO BEAMS: U 6x BEAMS TO BEAM: HUTF 4x BEAMS TO BEAM: HU > 6x BEAMS: HW, W TJI JOISTS TO BEAM: IUS OR MIU	
(a1(	11) TRIMMERS: 1–2x4 TRIMMER REQUIRED FOR 4x8 HEADERS AND SMALLER, U.N.O. 4x4 TRIMMER REQUIRED FOR HEADERS LARGER THAN 4x8 U.N.O.	NOT FOR CONSTRUCTION UNTIL SIGNED BY ENGINEER
	12) 12) 12) 12) 12) 12) 12) 12) 12) 12) 14) 14) 15) 12) 12) 14) 14) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15) 15)	No. 84917
	13) F.J. = FLOOR JOIST F.B. = FLOOR BEAM BEAM BEAM (SIZE AS NOTED ON PLAN)	$\begin{array}{c} \mathbf{L} \\ $
	= DOUBLE JOIST - (2) $1-3/4^{*}x14^{*}$ LVL, U.N.O. 	
	= BLOCKING	
	= ROOF JOISTS = FLOOR JOISTS	Z U N N N
	= DENOTES WALL AT FLOOR BELOW	
	= DENOTES STRUCTURAL WALL	СЦ 64,04
	14) PROVIDE STRAPS AND BLOCKS AROUND ALL WINDOWS PER $(10)$ 15) INTERIOR STUDS ARE MINIMUM 2×6 @ 24" 0.C.	
	EXTERIOR STUDS ARE MINIMUM 2x6 @ 16" O.C. 16) ALL BEAMS DESIGNATED AS "STRUTS" TO HAVE PLYWOOD	
	BOUNDARY NAILING.	APNOL
		AMB B
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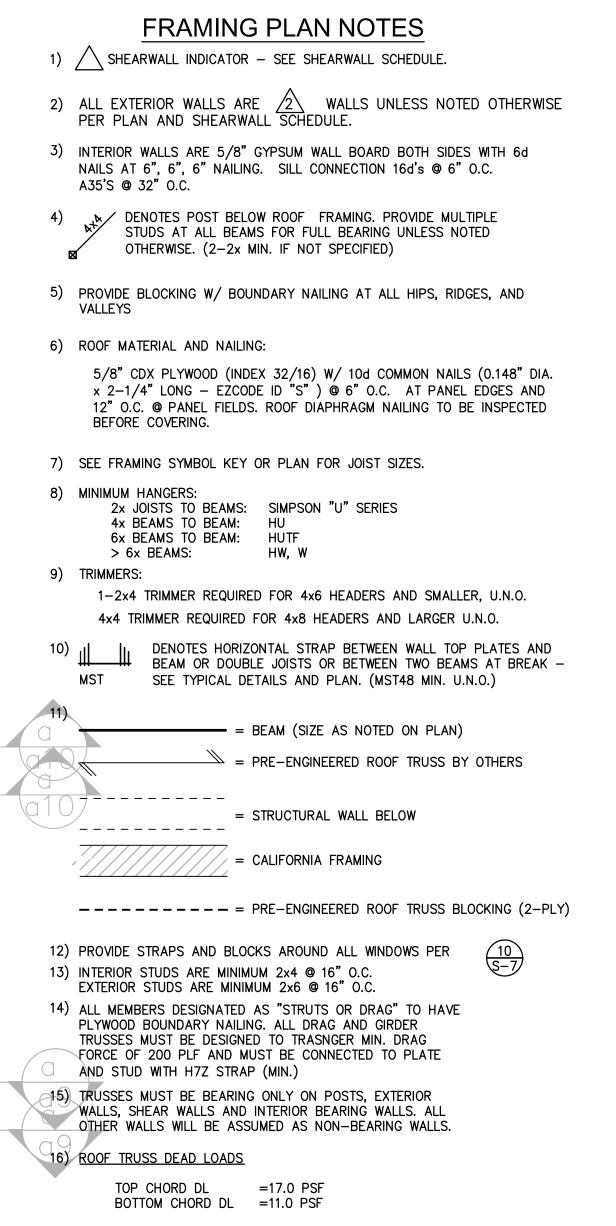
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ROOF FRAMING PLAN Scale: 1/4"=1'-0" 1



17) SEE ROOF TRUSS NOTES ON S-1.0

18) TWO SETS OF TRUSS DESIGN DRAWINGS SHALL BE PROVIDED TO THE BUILDING OFFICIAL AND APPROVED PRIOR TO INSTALLATION PER CRC R801.10.1 AND CBC 107.3.4.1. ALL PAGES OF THE TRUSS DESIGN DRAWINGS SHALL BE PREPARED, SIGNED AND STAMPED BY A REGISTERED DESIGN PROFESSIONAL. ENGINEER OF RECORD (EOR) SHOULD REVIEW THE TRUSS CALCULATIONS AND TRUSS LAYOUT SHEET AND SUBMIT A LETTER CONFIRMING GENERAL CONFORMANCE OF THE TRUSS DESIGN WITH THE BUILDING CODE AND DESIGN OF THE BUILDING, PRIOR TO RE-SUBMITTAL TO THE COUNTY OF SANTA CLARA.

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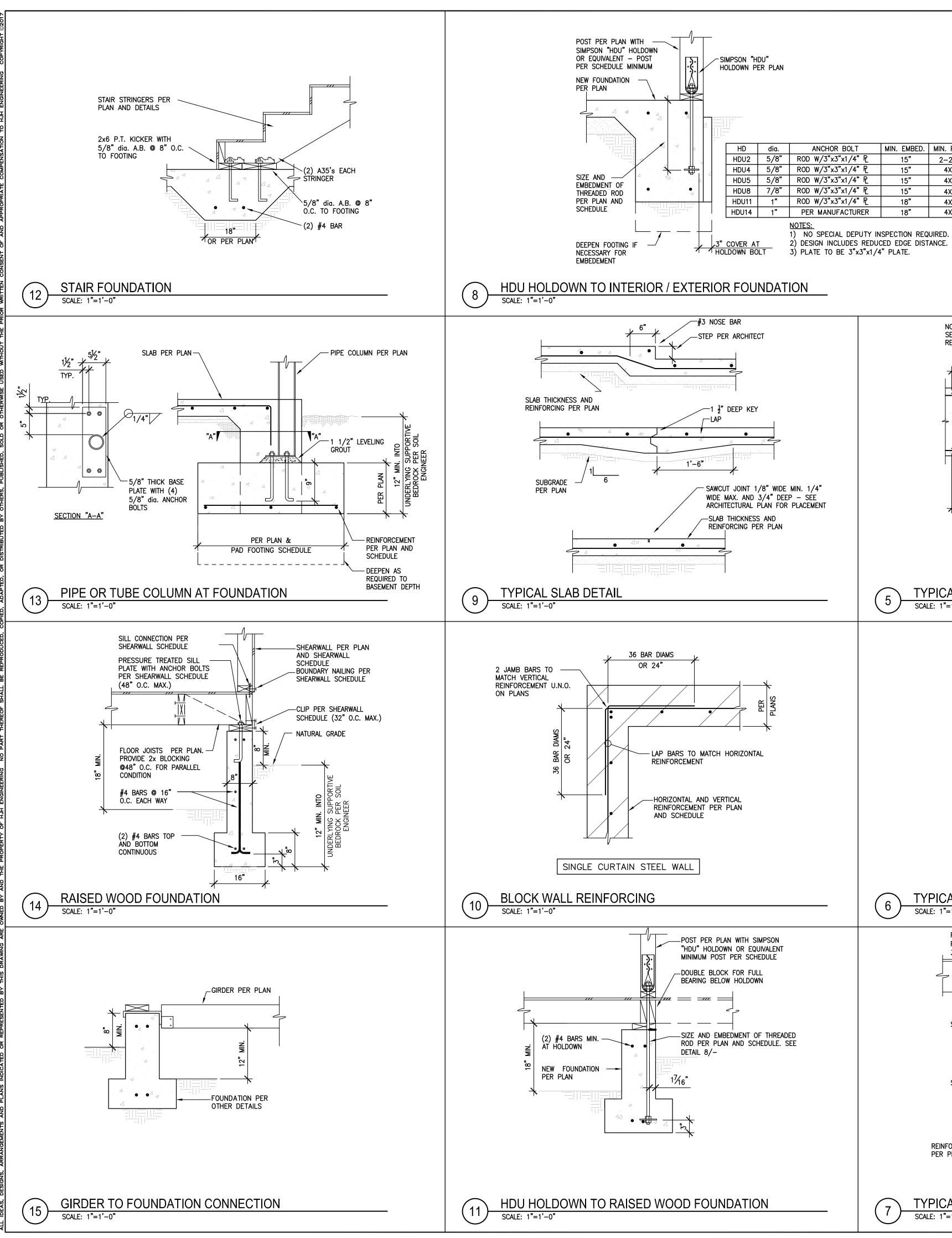
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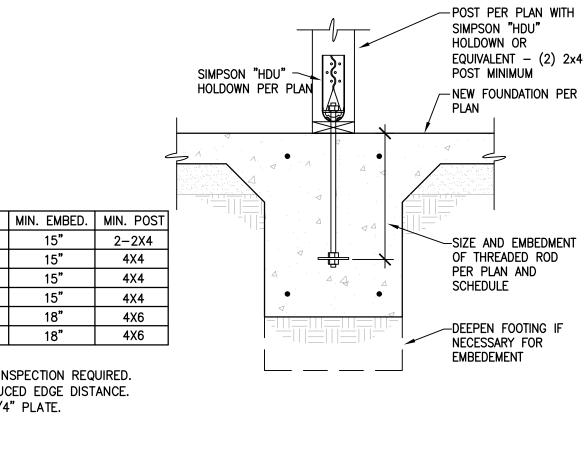


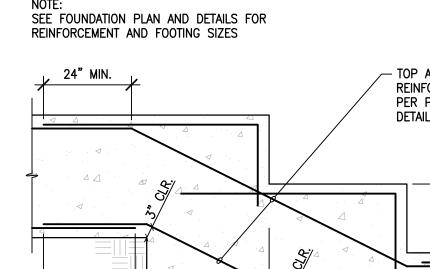


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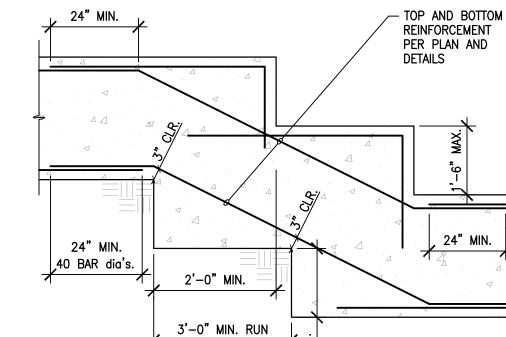
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TYPICAL STEPPED FOOTING DETAIL

SLAB THICKNESS AND -----

CONCRETE PAD, SIZE AND

STEEL PER PLAN

FLOOR JOISTS PER

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PER PLAN

-SOLID 2X

BLOCKING

-POST PER PLAN

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**TYPICAL PAD FOOTING** 

3-10D NAILS)

SIMPSON PC

SIMPSON PB

TYPICAL PIER FOUNDATION

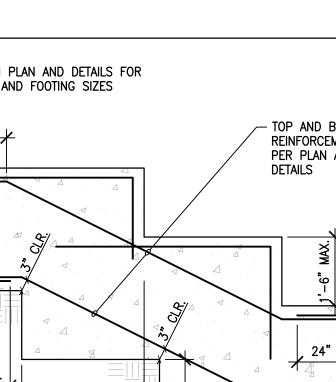
REINFORCEMENT PER PLAN

SCALE: 1"=1'-0"

SCALE: 1"=1'-0"

REINFORCING PER PLAN





- WOOD POST PER PLAN

BEDF

IN RE

- SIMPSON CBQ

POST BASE

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15"

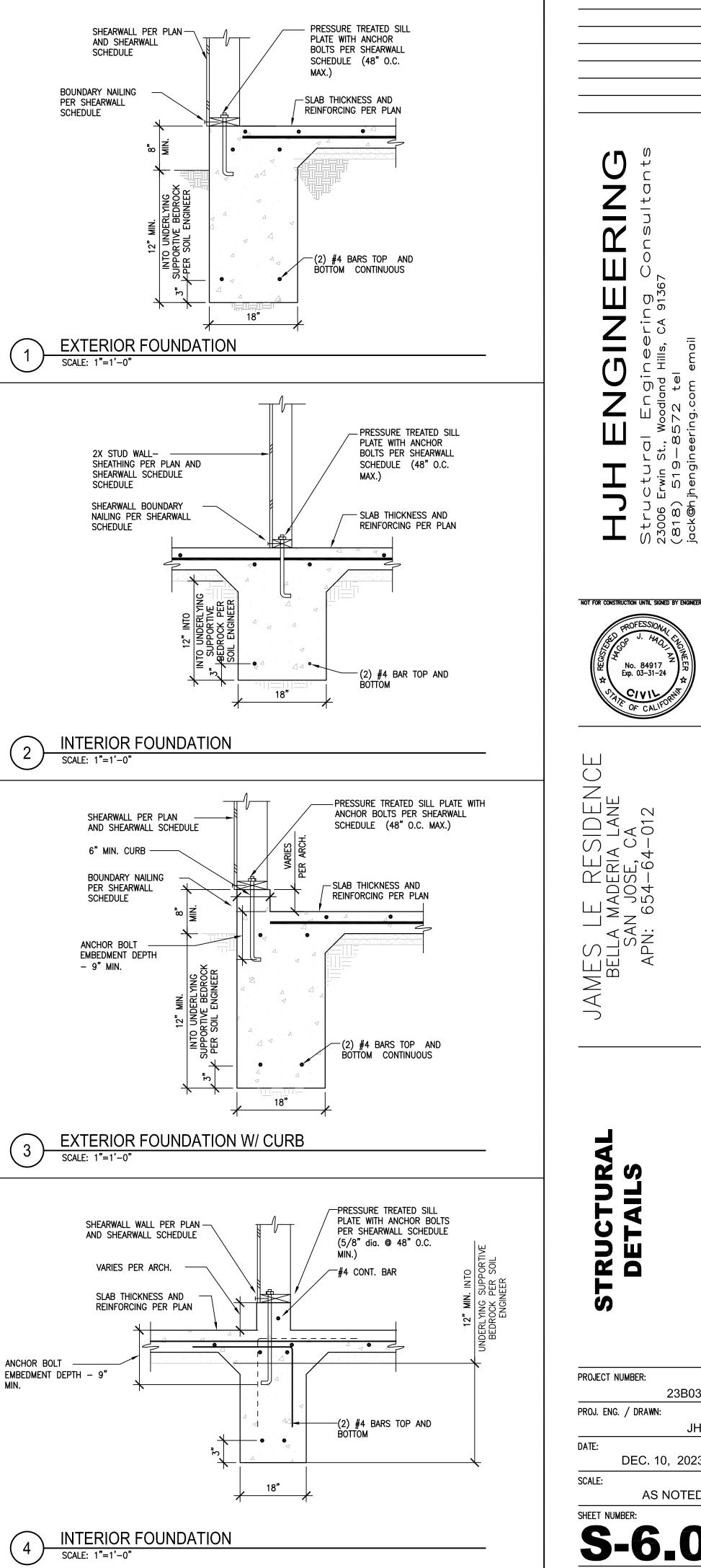
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18"



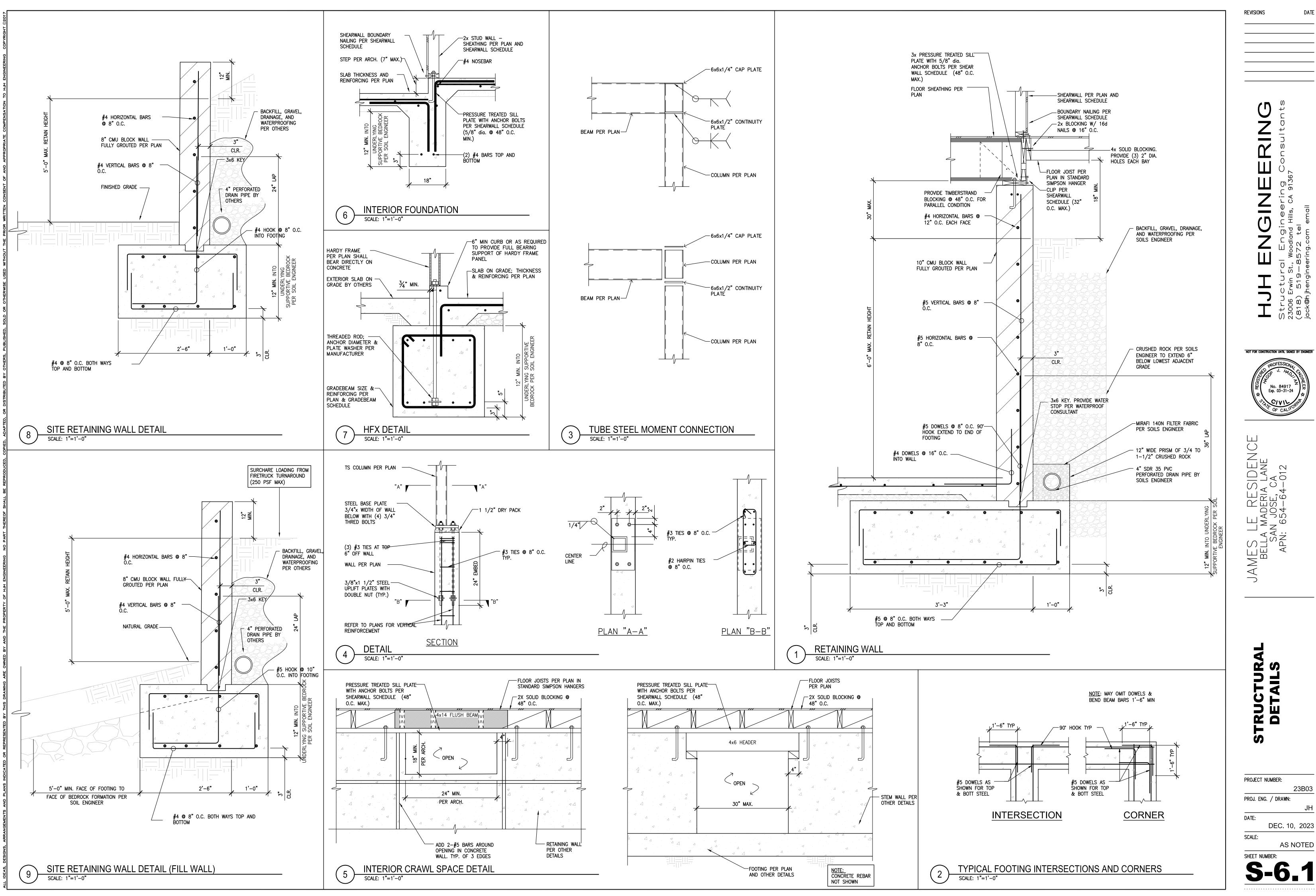
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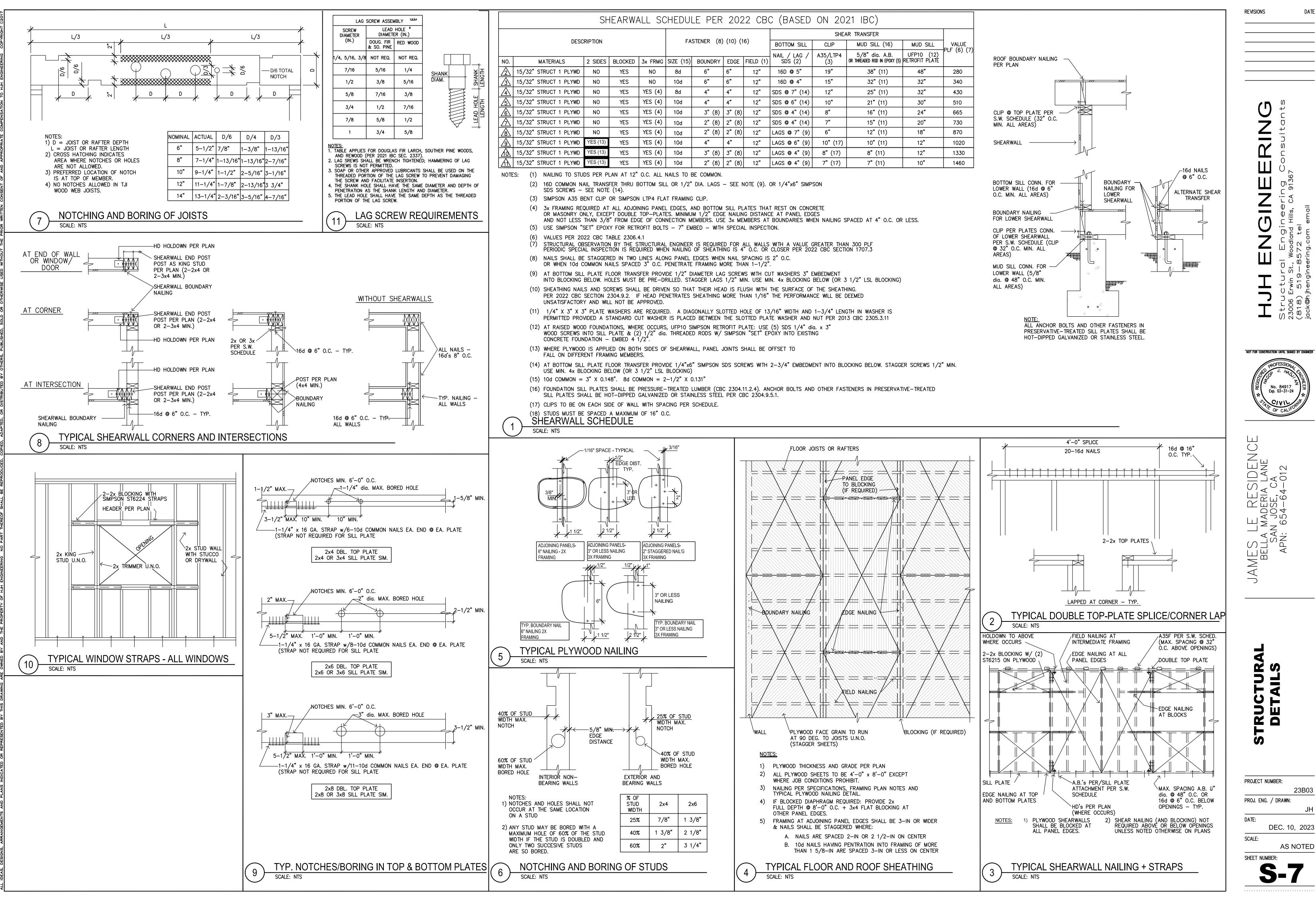
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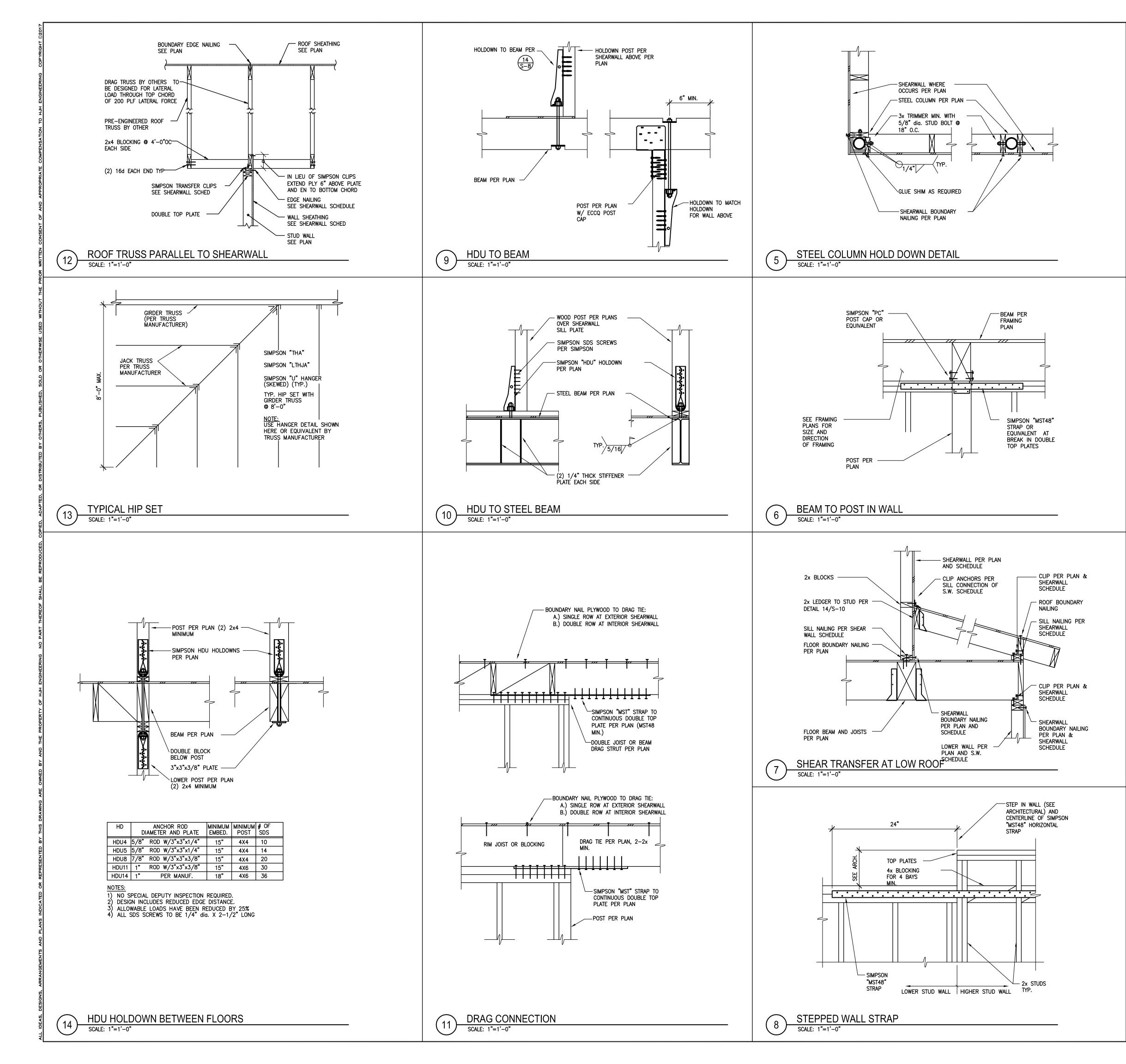
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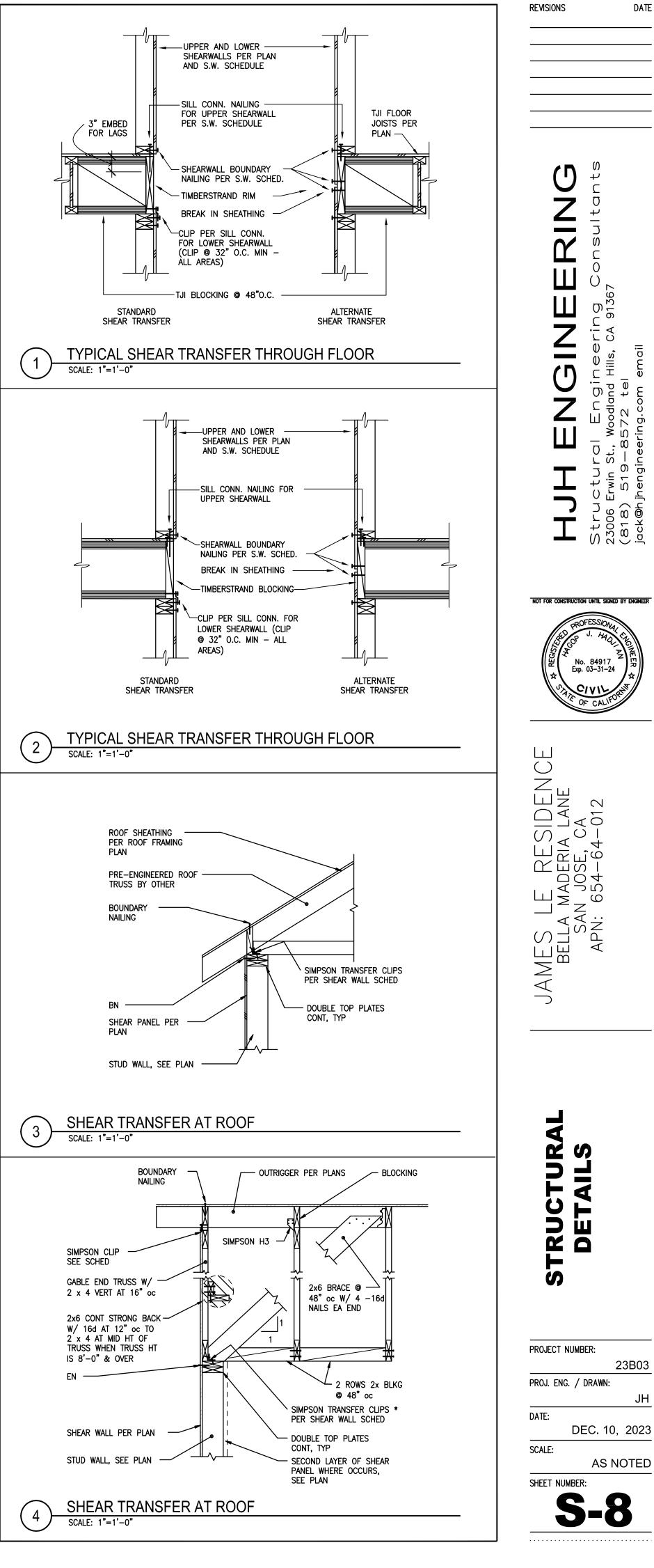
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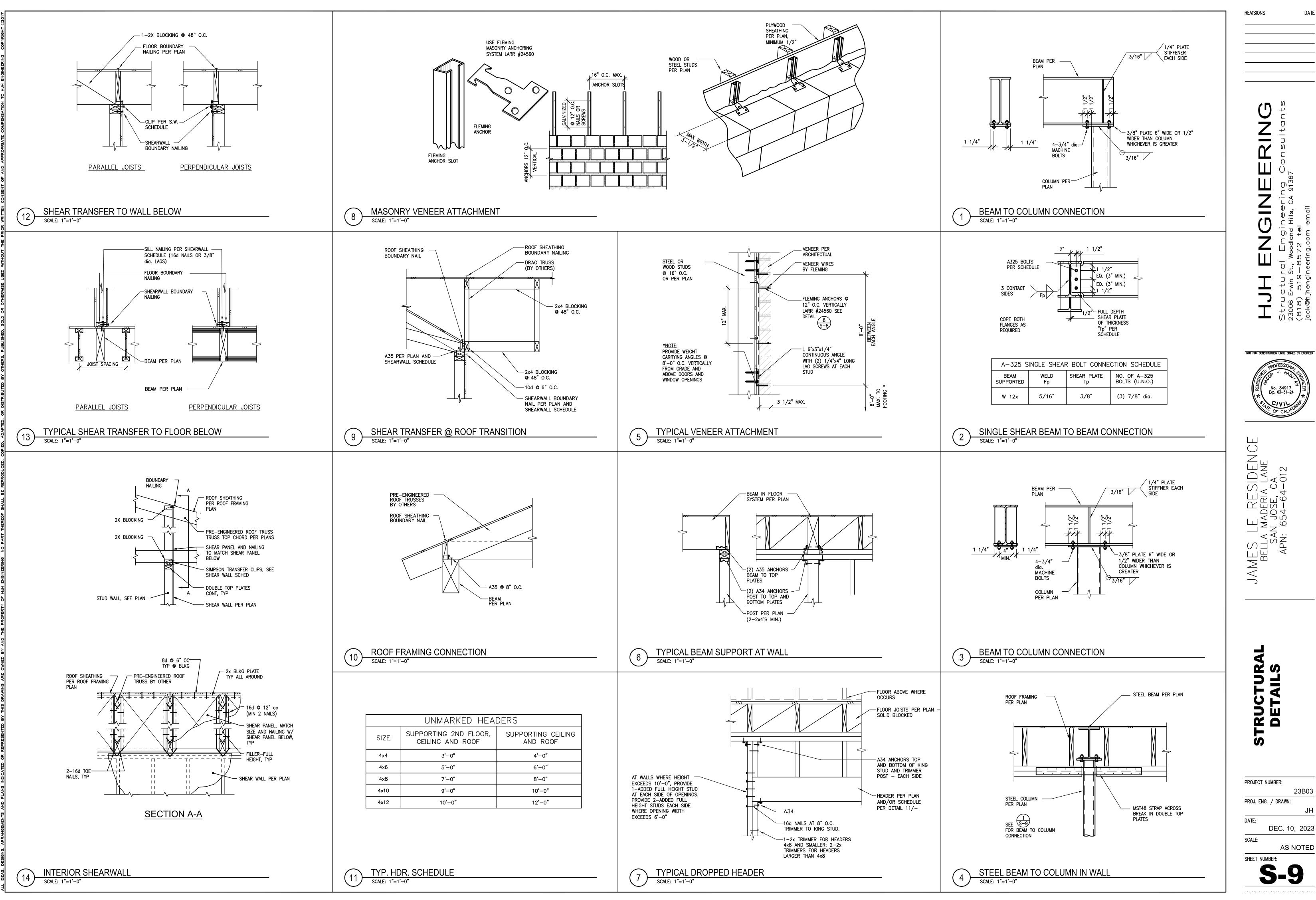


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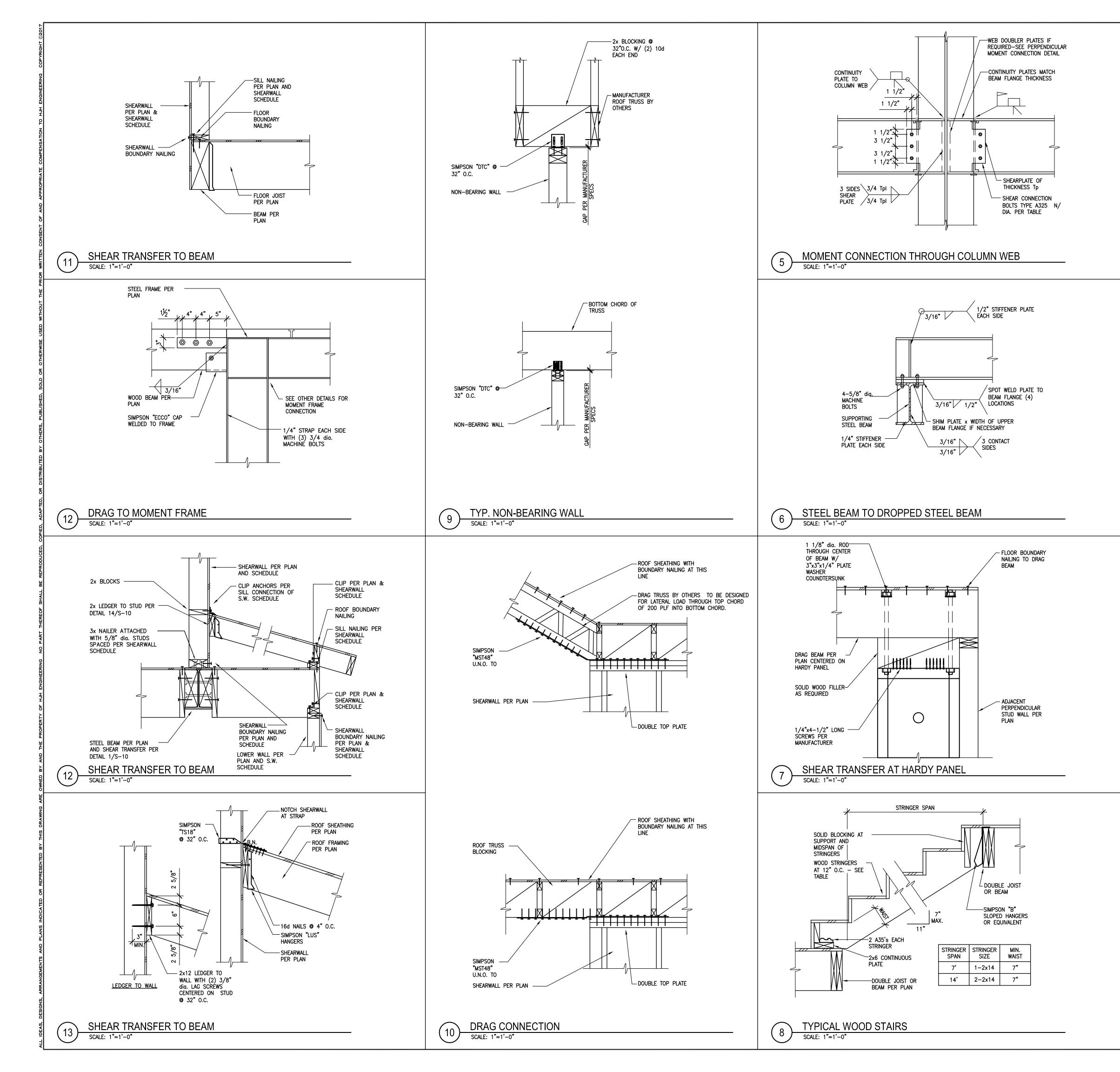


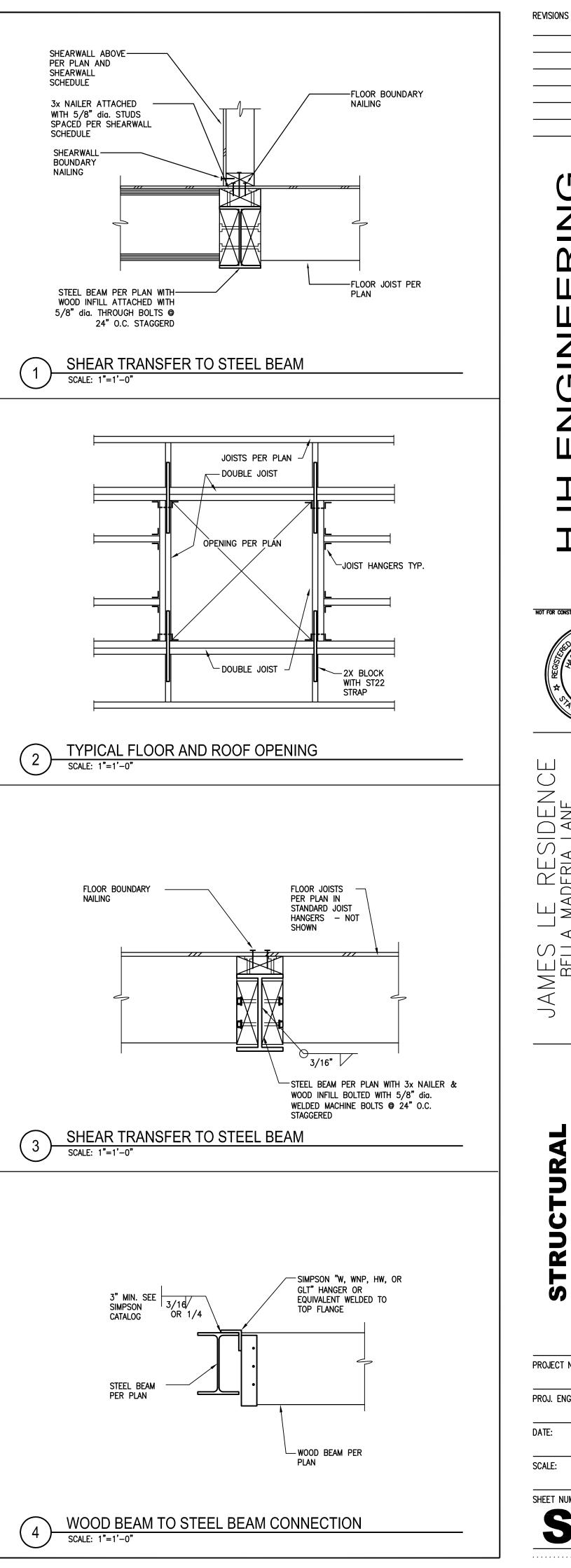




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G 2ND FLOOR, AND ROOF	SUPPORTING CEILING AND ROOF				
·0"	4'-0"				
·0"	6'-0"				
·'-0"	8'-0"				
'-0"	10'-0"				
)'—0"	12'-0"				

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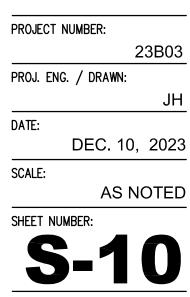


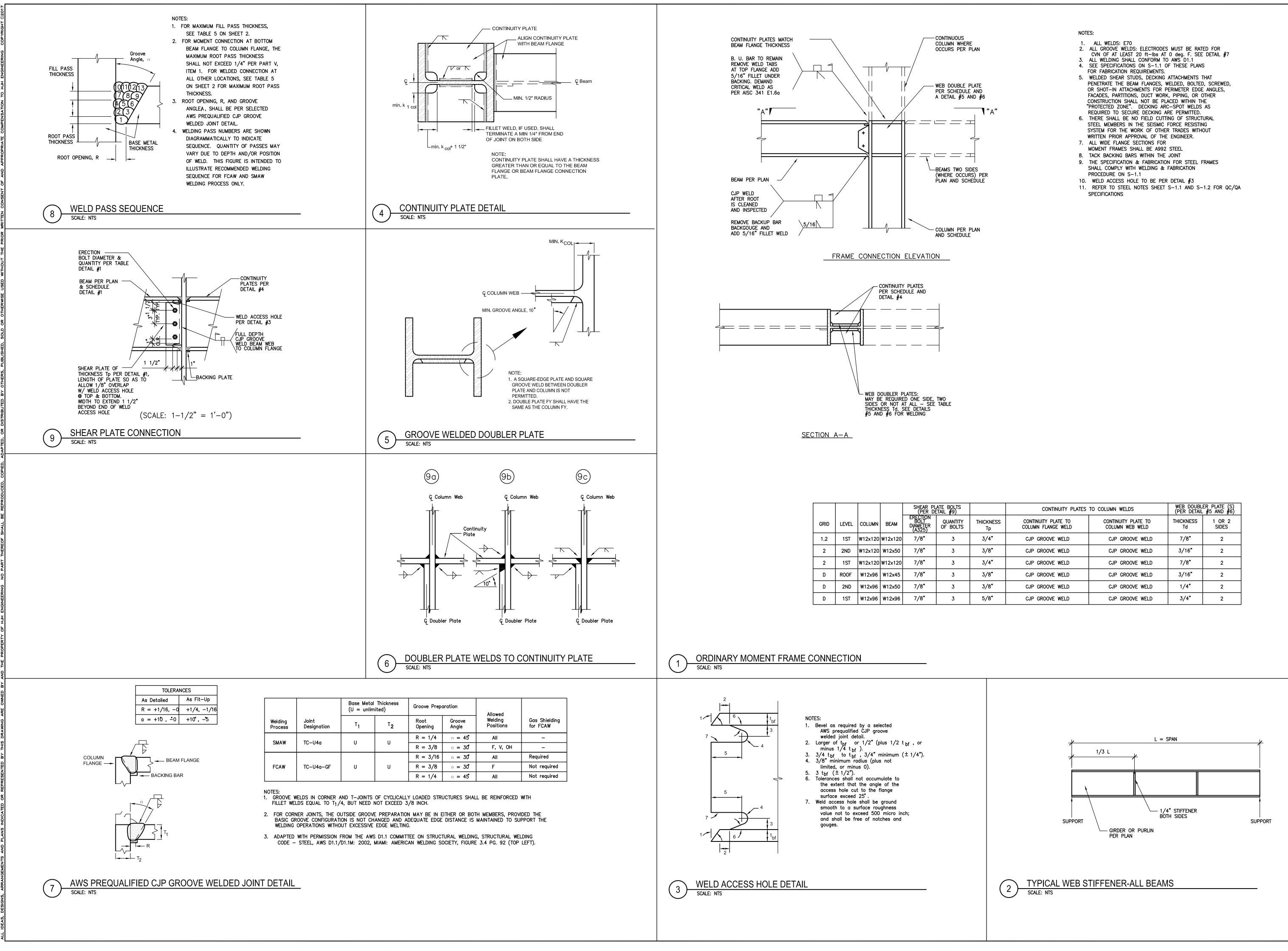


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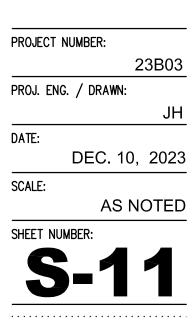
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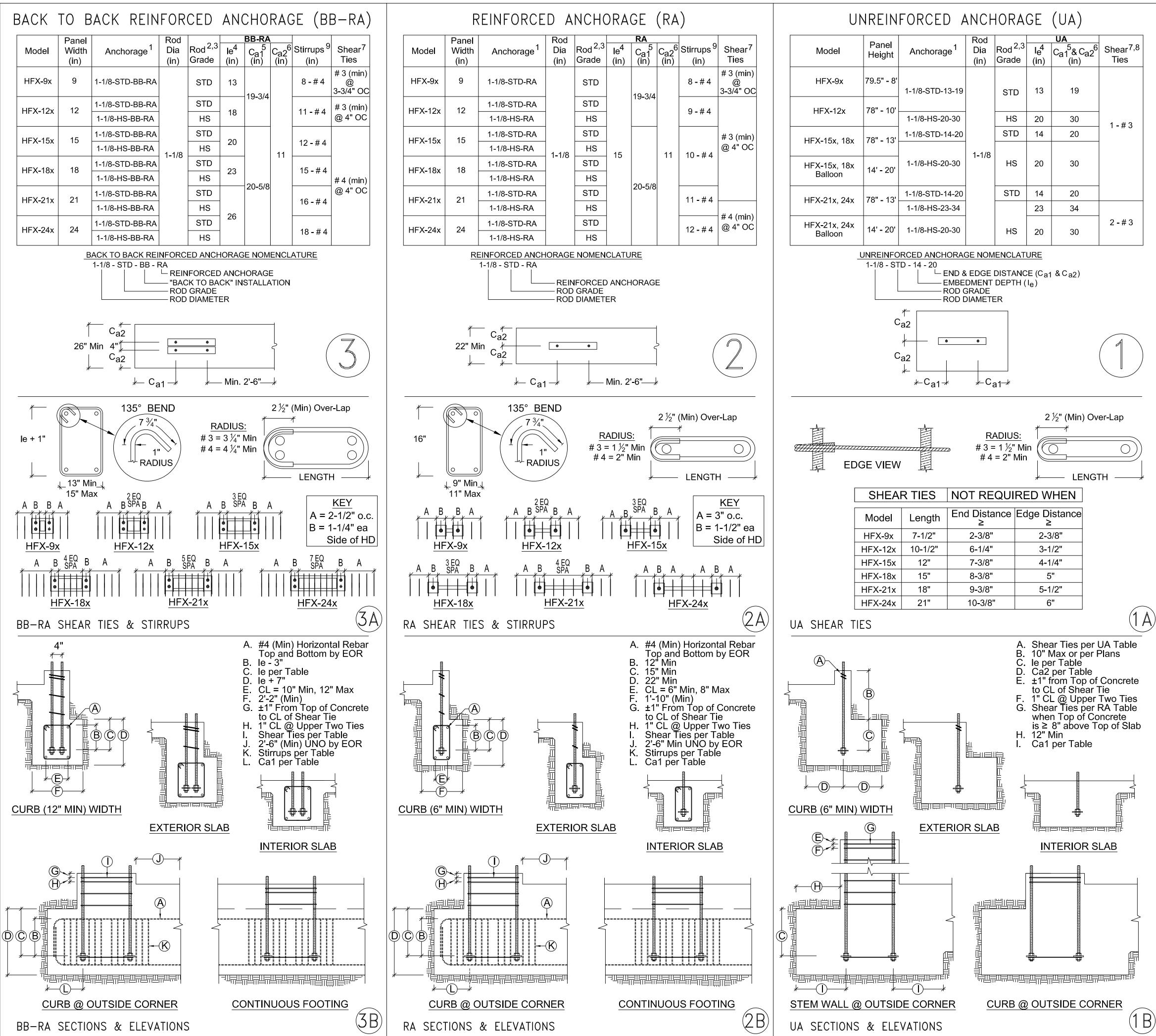
	CONTINUITY PLATES	(PER DETAIL	#5 AND #6)	
KNESS Tp	CONTINUITY PLATE TO COLUMN FLANGE WELD	CONTINUITY PLATE TO COLUMN WEB WELD	THICKNESS Td	1 OR 2 SIDES
/4"	CJP GROOVE WELD	CJP GROOVE WELD	7/8"	2
/8"	CJP GROOVE WELD	CJP GROOVE WELD	3/16"	2
/4"	CJP GROOVE WELD	CJP GROOVE WELD	7/8"	2
/8"	CJP GROOVE WELD	CJP GROOVE WELD	3/16"	2
/8"	CJP GROOVE WELD	CJP GROOVE WELD	1/4"	2
/8"	CJP GROOVE WELD	CJP GROOVE WELD	3/4"	2

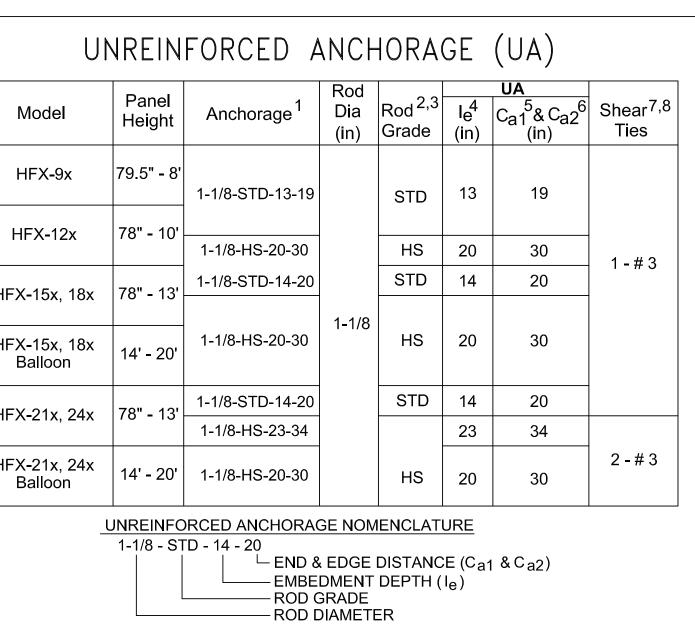


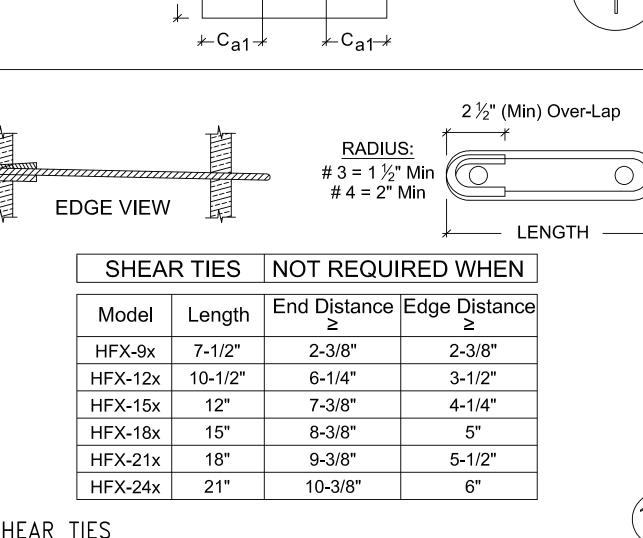




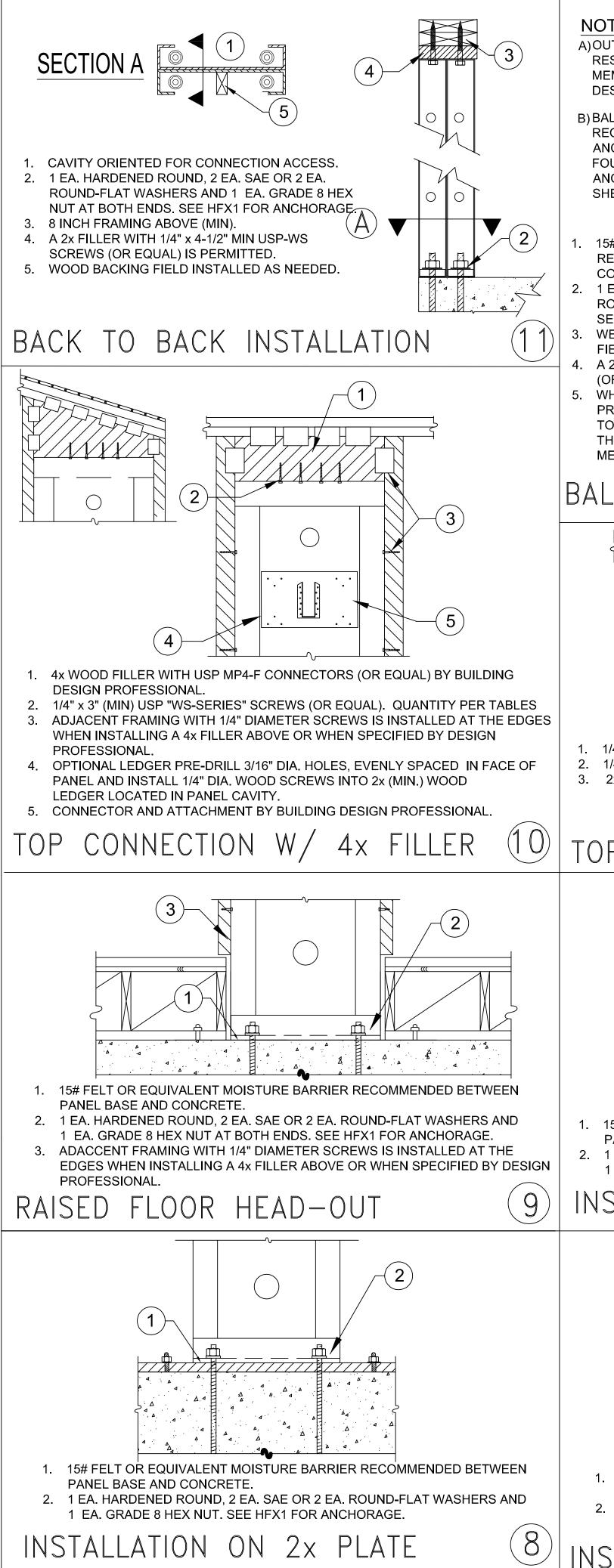






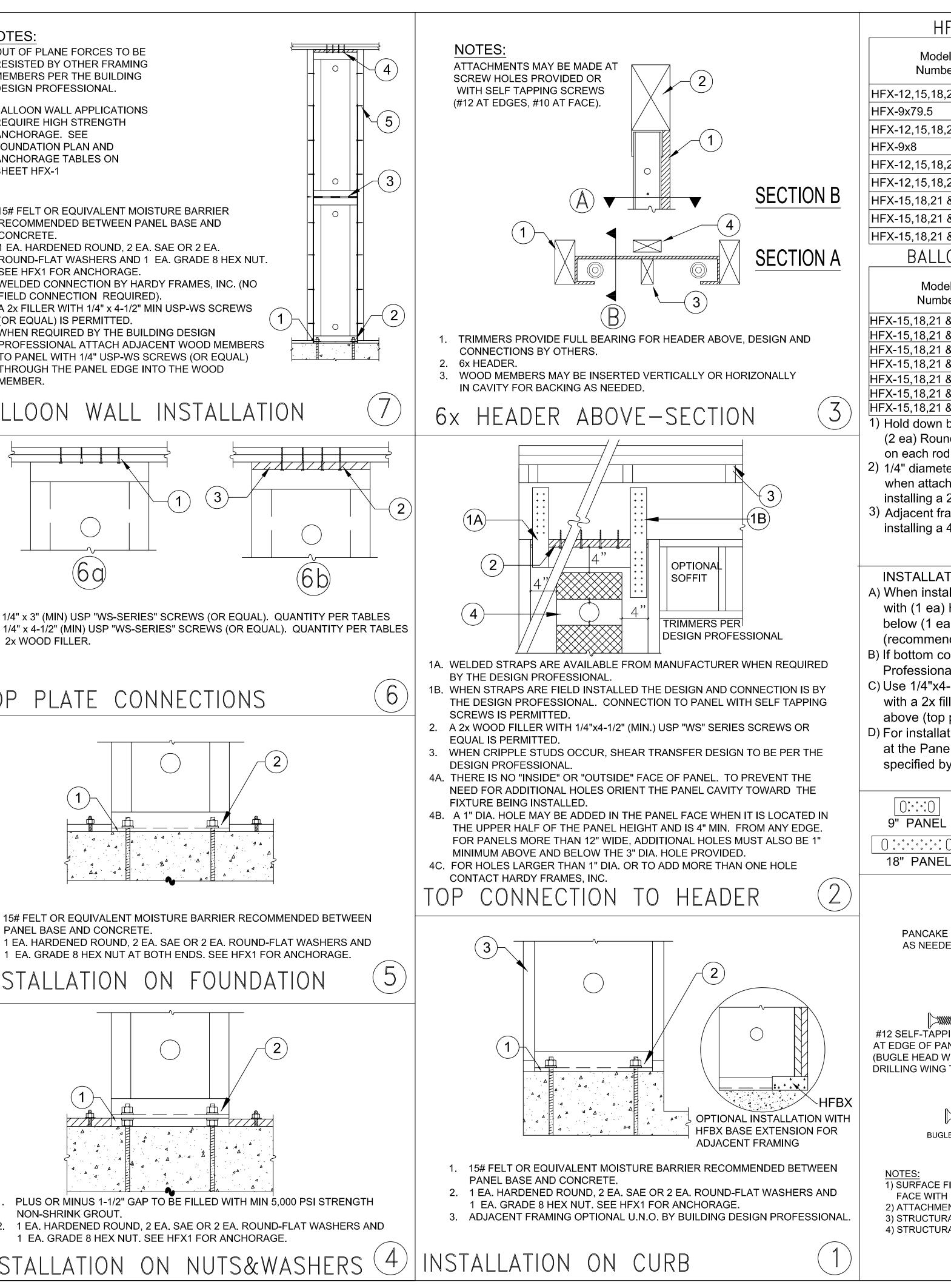


	REVISIONS DATE
TABLE NOTES1. Designs are to resist loading per ACI 318-14, Section 17.2.3.4.3	
2. STD indicates Anchors complying with ASTM F1554 Grade 36	
with a Hardy Frame Bolt Brace (HFXBB) installed with double nuts on the embed end.	
3. HS indicates Anchors complying with ASTM A193 Grade B7 wi	th
a 1/2"x3"x3"(Min) Plate Washer installed with double nuts on th	e
<ul><li>embed end (HFXBB not required).</li><li>4. Ie = length of embedment from the top of footing or grade beam</li></ul>	
to the top of the HFXBB Bolt Brace (top of the embedded Plate	
<ul><li>Washer @ HS anchors)</li><li>5. Ca1 = distance from HD Centerline to the end of the footing or</li></ul>	
grade beam.	AN UCT
6. Ca2 = distance from HD Centerline to both the front and the ba	-S - HFX PANEL -S - HFX PANEL -ARY AND IS NOT REQUIRED DY FRAME PRODUCTS
<ul><li>face of the footing or grade beam.</li><li>7. Shear Ties are Grade 60 (Min) rebar and required for near edge</li></ul>	
distance conditions per ACI-318-14, f'c = 2,500 psi. Curbs and	
stem walls must be 6 inch (min) width for UA and RA, 12 inch (min) width for BB-RA.	P A A A A A A A A A A A A A A A A A A A
8. For UA applications, additional ties may be required at stem	LS ITAR RDY
walls. Shear Ties are not required for installation away from	
edge (see detail 1A), installation on wood framing, or for IRC Braced Wall Panel applications.	DETAI DETAI T PROPRIE
9. Stirrups are Grade 60 (Min) rebar. See table for size and	AL V
spacing. See "Stirrup Layout" diagrams and "Key" for layout patterns.	
10. Concrete Edge Distances must comply with ACI 318-14, Section	n <b>A A A</b>
17.7.1	ANCHORAGE D THIS DETAIL SHEET IS NOT F FOR PLAN SUBMITTAL V
	LE CI
Image: Image	
Model Width (A) (B)	
HFX-9x 9" 5-1/2"	
HFX-12x 12" 1-3/4" 8-1/2"	
HFX-15x 15" 9-3/4" HFX-18x 18" - 5 (0) 12-3/4"	
HFX-10x     18     2-5/8"     12-3/4"       HFX-21x     21"     15-3/4"	S E
HFX-24x 24" 18-3/4"	• COI
HFX ANCHOR CENTERLINES	A, CA
IMPORTANT!	
ΙΜΓΟΚΙΑΝΙ:	VEN VEN
1. ANCHORAGE IS DESIGNED FOR TENSION AND	200, %
SHEAR TRANSFER ONLY, FOUNDATION DESIGN PER EOR.	
	;, SU
2. REINFORCEMENT SHOWN IS THE MINIMUM REQUIREMENT AND IS NOT INTENDED TO	B00 800
REPLACE REINFORCEMENT DESIGNED BY THE	
EOR.	PHC
3. FOR RA AND BB-RA INSTALLATIONS, THE	732 F
HFXBB BOLT BRACE MAY BE PLACED ON TOP	(= )
OF THE STIRRUPS WITH DOUBLE-NUTS INSTALLED AT EMBED END OF STANDARD	
GRADE ANCHOR RODS. (NOTE: $\frac{1}{2}$ " x 3" x 3"	
PLATE WASHERS ARE REQUIRED TO BE DOUBLE-NUTTED AT EMBED END OF HIGH	
STRENGTH ANCHOR RODS.)	
	SERIES
4. HIGH STRENGTH ALL-THREAD RODS PROVIDED BY HARDY FRAMES ARE STAMPED ON BOTH	
ENDS. HF	DATE: 1-1-2017
B7	
	HFX1
IMPORTANT NOTES	

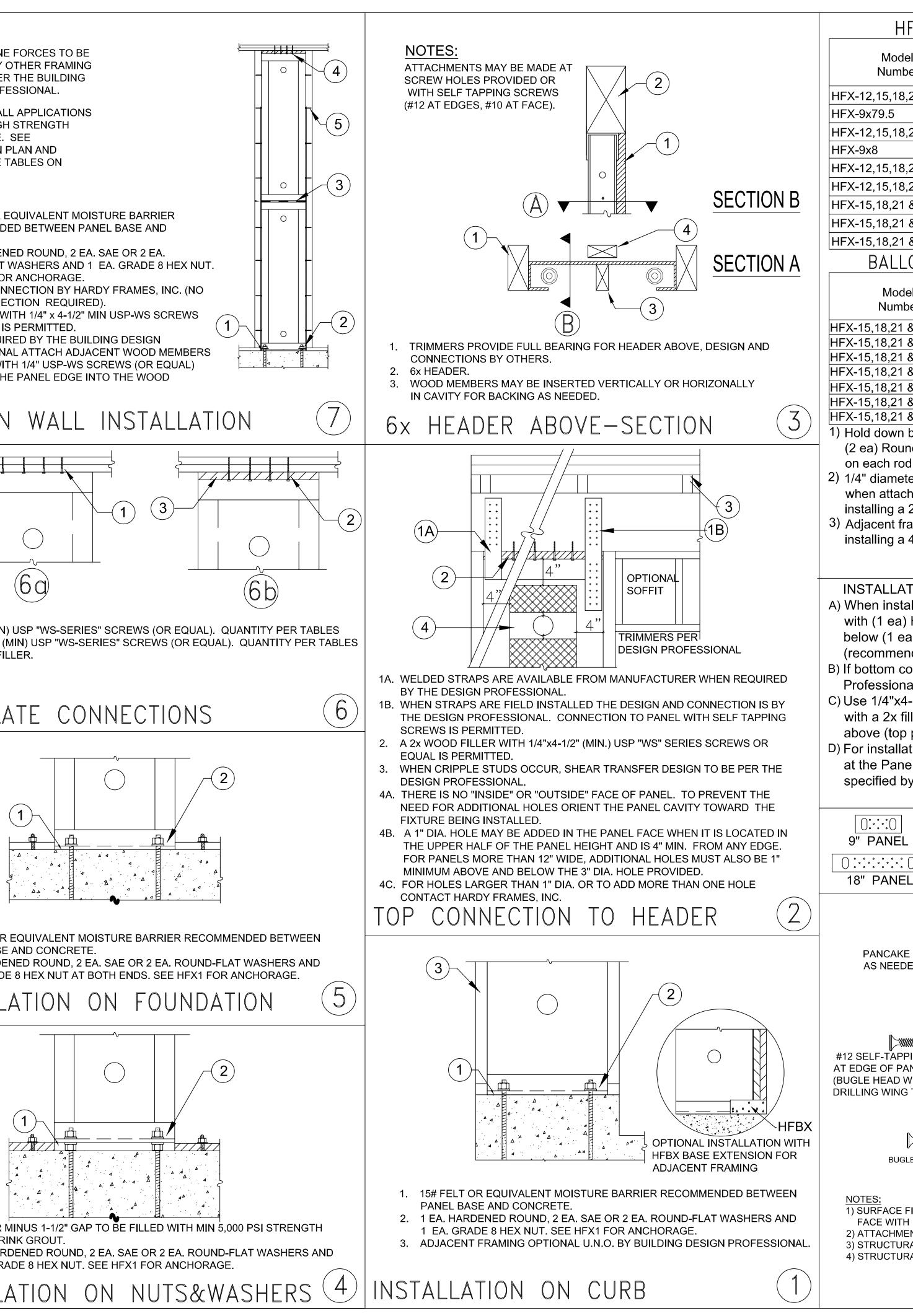


# NOTES:

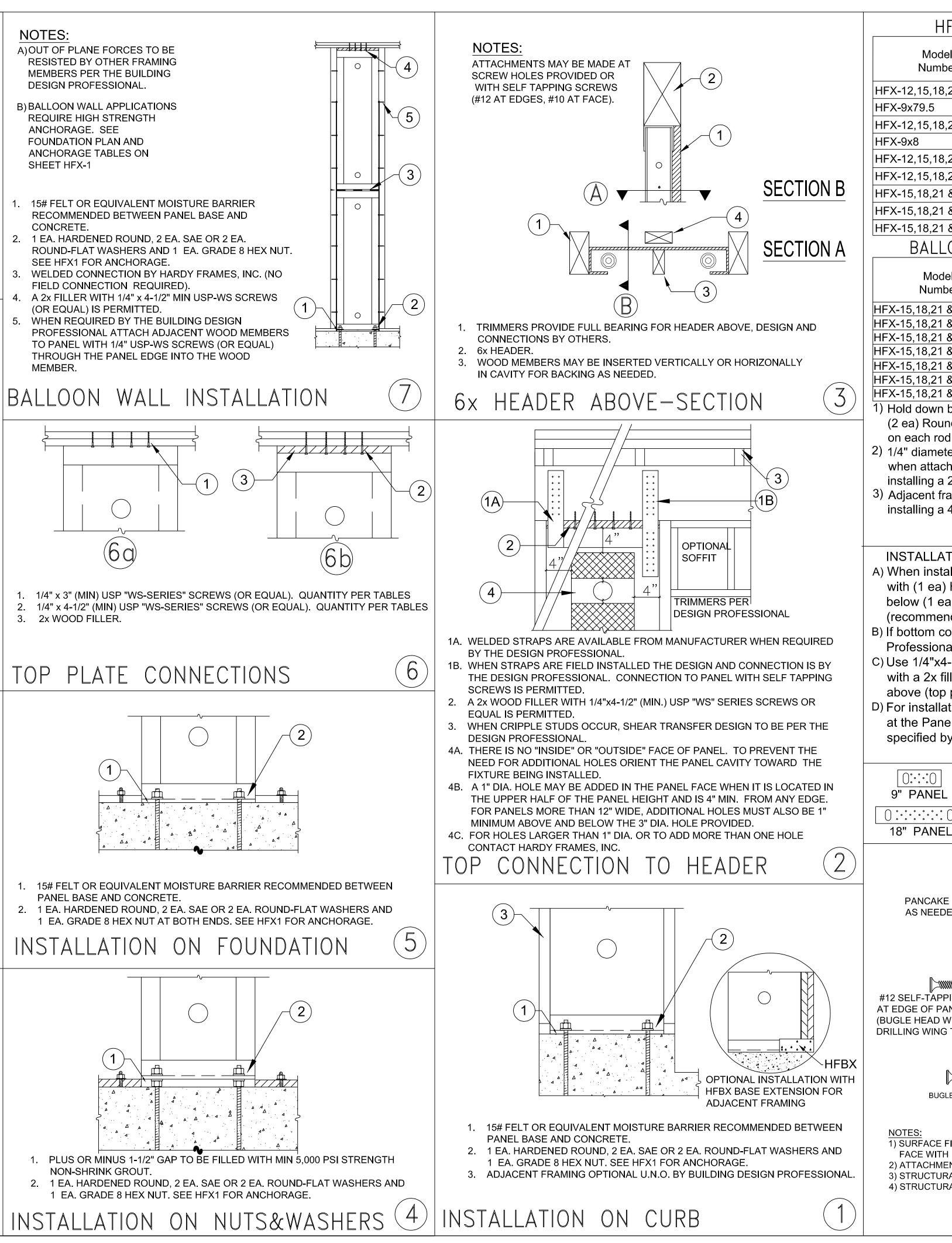
- A)OUT OF PLANE FORCES TO BE **RESISTED BY OTHER FRAMING** MEMBERS PER THE BUILDING DESIGN PROFESSIONAL.
- **B) BALLOON WALL APPLICATIONS** REQUIRE HIGH STRENGTH ANCHORAGE. SEE FOUNDATION PLAN AND ANCHORAGE TABLES ON SHEET HFX-1
- RECOMMENDED BETWEEN PANEL BASE AND CONCRETE.
- 2. 1 EA. HARDENED ROUND, 2 EA. SAE OR 2 EA. SEE HFX1 FOR ANCHORAGE.
- FIELD CONNECTION REQUIRED).
- (OR EQUAL) IS PERMITTED.
- WHEN REQUIRED BY THE BUILDING DESIGN MEMBER.



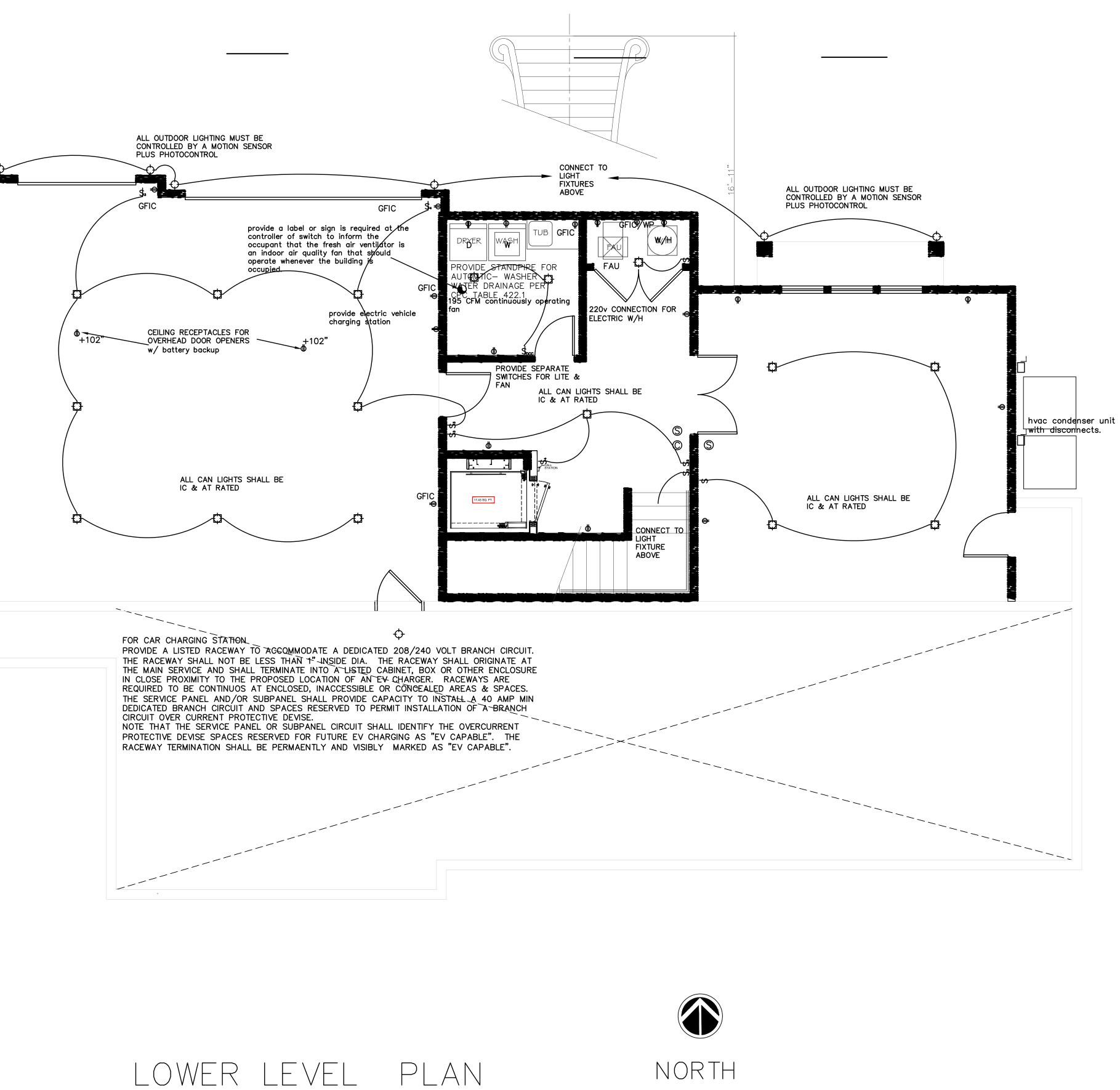
- 3. 2x WOOD FILLER.



- PANEL BASE AND CONCRETE.

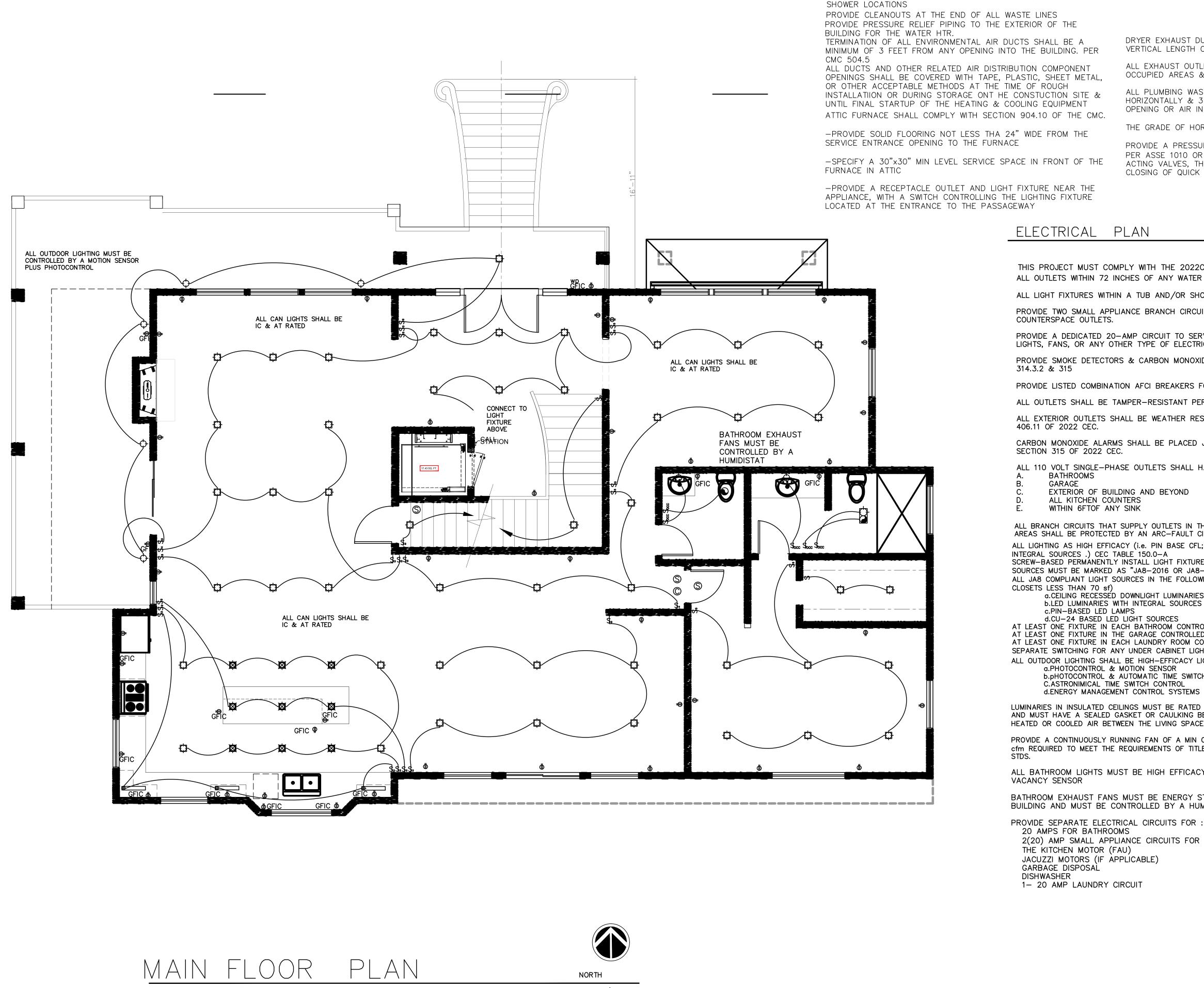


			וחווד		т	REVISIONS	DATE		
IFX-SER	IES / Net	Ö IIN	. THRU Hold Dowr		Screw Qty		DATE		
lel ber	Height (in)	Depth (in)	Diameter ¹ (in)	Screw Qty ²	Available at Edges (ea) ³				
3,21 & 24x78	78	("'')	(111)	(ea) 9" Width = 5					
	79-1/2								
3,21 & 24x8	92-1/4 93-3/4	2 1/2	1 1/0	12" Width = 6	4		0		
3,21 & 24x9	104-1/4	3-1/2	1-1/8	15" Width = 8		6	IRE		
3,21 & 24x10 & 24x11	116-1/4 128-1/4			18" Width = 10	5		EQU		
& 24x12	140-1/4			21" Width = 12		Z Z	T RE CTS		
& 24x13	152-1/4			24" Width = 14		HFX PANELS	PROPRIETARY AND IS NOT REQUIRED HARDY FRAME PRODUCTS		
	ANELS Net		トヒヒト old Down	THRU 20 Top	FEET Screw Qty		ID IS PRO		
lel H	eight D	epth Di	ameter ¹	Screw Qty ²	Available at Edges (ea) ³	<u> </u>	Y AN 1E		
	(in) 4-1/4	<u>(in)</u>	(in)	(ea) 15" Width = 8	Luges (ea)		LAR' RAN		
	6-1/4 8-1/4			18" Width = $10$	6	- S	RIET NY F		
& 24x17 20	0-1/4 3	-1/2	1-1/8	21" Width = $12$	7		ROPI		
& 24x18 21 & 24x19 22	24-1/4				8	IA	T PF		
& 24x20   23		Panel		24" Width = 14 (1 ea) Hardene		DETAI	NOT   WITH		
ind-Flat or (2	2 ea) SA	E Wasł	ners below	(1 ea) Grade 8	B Hex Nut		ET IS TAL		
ter USP-WS	Series	screws	(or equal)	gn Professional Length is 3" (	minimum)	FRAMING	BETAIL SHEET		
ched directly ı 2x filler abc			and 4-1/2	" (minimum) wł	nen		NL S SUE		
•				quired at the e	•	AN	ETA _AN		
		nen spe	ecined by t	he Design Prof			THIS D FOR PI		
TION INST	RUCTIO						ΗĈ		
alling direct	ly on co	ncrete,	•	nel over bolts a					
,		. ,		at or (2 ea) SA Secure with a c					
nded) until '	"Snug T	ight".							
			-	confirm with De ers or on a Mu	-				
			•	ual) at top cor			с С		
	ler. If the top of Panel is in direct contact with the collector plates, header, beam, etc.) use1/4 x 3" (minimum) tions with a 4x filler above 1/4" diameter screws are required								
				neter screws a e hinge or whe	•		, CA		
by the Desig			•	ege e	$(\mathbf{R})$		URA		
Г	<u> </u>						/ENT /w.h		
L 1	0000000 12" PAN		15	5" <b>PANEL</b>			00, V / wv		
0 0:	• • • • • • • • • • • •	·)		•••••••••••••••••••••••••••••••••••••••	$\bigcirc$		TE 2 3030		
	21" PAN		24	" PANEL			SUI 54-3		
							31VE, 300 7		
c							A DF NE: 8		
E FIXTURE DED		0				Į	ALM		
				AT FACE OF P	ANEL.		32 P/ ELEF		
				(HEX HEAD WI DRILLING TIP S			17 17		
			•	#12 SELF-TAPI					
PING SCREWS ANEL.		•		AT FACE OF P	ANEL.				
WITH SELF G TIP SHOWN)		•	•						
UNUVIN)		• •	$\mathcal{N}$						
			ttt		XXX	S	ERIES		
v	FER HEAD	γ۲ FLAT T		L S	HEAD				
	ے SELF DRILL		SEL	.F DRILLING WING TIF	,	DATE:			
FINISHES, COM		S AND FI	XTURES ARE	ATTACHED TO TH	IE PANEL	1-1-2	017		
ENTS TO THE F	PANEL ED	GES ARE	MADE WITH	ESS THAN 2-1/4" C # 12 SELF-TAPPIN	IG SCREWS.				
				THE DESIGN PRO					
					$(\Box)$		X2		



scale  $\frac{1}{4^{"}} = 1' - 0"$ 

	STEVE BENZING ARCHITECT	C-17985	SARTOGA CALIFORNIA	TEL: 408-805-1328	WEBSITE: BENZARCH.COM		
		NEW RESIDENCE ON		APN: 654-64-012			
		I DWFR I FVFI			LAN		
SYMBOL LEGEND         \$       MANUAL ON - VACANCY SENSOR SWITCH         \$       DIMMER SWITCH         \$       DIMMER SWITCH         \$       J-WAY LIGHT SWITCH         \$       3-WAY LIGHT SWITCH         \$       4-WAY LIGHT SWITCH         \$       FAN/LIGHT SWITCH         \$       DUPLEX RECEPTACLE         S       FAN/LITE COMBO         \$       SMOKE DETECTOR							
CARBON MONOXIDE DETECTOR         FLUORESCENT STRIP FIXTURE         EXHAUST FAN -         LIGHT FIXTURE         RECESSED LIGHT FIXTURE	DATE: 9/9/2024	DESIGNED BY: T. PENG	DRAWN BY: N.SINGH	CHECKED BY: M. SAINI	APPROVED BY: M. SAINI		
	REVISIONS						
	NO.	S	HEE1		ЈМВЕ	R	



scale  $\frac{1}{4^{n}} = 1' - 0''$ 

# ELECTRICAL PLAN

MECHANICAL & PLUMBING NOTES

PROVIDE APPROVED MIXING VALVES FOR ALL TUB/SHOWER &

THIS PROJECT MUST COMPLY WITH THE 2022CALIF ENERGY CODE ALL OUTLETS WITHIN 72 INCHES OF ANY WATER SOURCE SHALL BE ON A GFCI CIRCUIT. ALL LIGHT FIXTURES WITHIN A TUB AND/OR SHOWER ENCLOSURE SHALL BEAR THE LABEL "SUITABLE FOR DAMP LOCATION". PROVIDE TWO SMALL APPLIANCE BRANCH CIRCUITS FOR THE KITCHEN. THEY SHALL BE LIMITED TO SUPPLYING WALL AND

PROVIDE A DEDICATED 20-AMP CIRCUIT TO SERVE THE REQUIRED BATHROOM OUTLETS. THIS CIRCUIT CANNOT SUPPLY ANY LIGHTS, FANS, OR ANY OTHER TYPE OF ELECTRICAL DEVICE OR FIXTURE.

PROVIDE SMOKE DETECTORS & CARBON MONOXIDE DETECTORS PER CRC. HARDWAIRE AND INTERCONNECT PER 2022 CEC

PROVIDE LISTED COMBINATION AFCI BREAKERS FOR ALL ELECTRICAL CIRCUITS PER SECTION 210.12(A) & (B) OF 2022 CEC.

SECTION 315 OF 2022 CEC.

EXTERIOR OF BUILDING AND BEYOND

ALL KITCHEN COUNTERS WITHIN 6FTOF ANY SINK

ALL BRANCH CIRCUITS THAT SUPPLY OUTLETS IN THE KITCHEN, FAMILYROOS, DINING, LIVING, LAUNDRY AREA OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER ALL LIGHTING AS HIGH EFFICACY (i.e. PIN BASE CFL; PULSE START MH, HPS, GU-24 SOCKETS OTHER THAN LED'S. LED LUMINARIES WITH INTEGRAL SOURCES .) CEC TABLE 150.0-A SCREW-BASED PERMÁNENTLY INSTALL LIGHT FIXTURES MUST CONTAIN SCREW-BASED JA8 COMPLIANT LAMPS. JA8 COMPLIANT LIGHT SOURCES MUST BE MARKED AS "JA8-2016 OR JA8-2016-E. ALL JA8 COMPLIANT LIGHT SOURCES IN THE FOLLOWING LOCATIONS ARE CONTROLLED B Y VACANCY SENSORS OR DIMMERS (EX.

a.CEILING RECESSED DOWNLIGHT LUMINARIES **b.LED LUMINARIES WITH INTEGRAL SOURCES** 

d.CU-24 BASED LED LIGHT SOURCES AT LEAST ONE FIXTURE IN EACH BATHROOM CONTROLLED BY A VACANCY SENSOR AT LEAST ONE FIXTURE IN THE GARAGE CONTROLLED BY A VACANCY SENSOR. AT LEAST ONE FIXTURE IN EACH LAUNDRY ROOM CONTROLLED BY A VACANCY SENSOR SEPARATE SWITCHING FOR ANY UNDER CABINET LIGHTING (INCL KITCHEN LIGHTING) FROM OTHER LIGHTING SYSTEMS ALL OUTDOOR LIGHTING SHALL BE HIGH-EFFICACY LIGHTING WITH A MANUAL ON/OFF SWITCH & ONE OF THE FOLLOWING a.PHOTOCONTROL & MOTION SENSOR b.pHOTOCONTROL & AUTOMATIC TIME SWITCH CONTROL

C.ASTRONIMICAL TIME SWITCH CONTROL d.ENERGY MANAGEMENT CONTROL SYSTEMS

LUMINARIES IN INSULATED CEILINGS MUST BE RATED FOR DIRECT INSULATION CONTACT, RATED AIR-TIGHT PER ASTM E283, AND MUST HAVE A SEALED GASKET OR CAULKING BETWEEN THE HOUSING AND THE CEILING TO PREVENT THE FLOW OF HEATED OR COOLED AIR BETWEEN THE LIVING SPACE AND THE ATTIC / CEILING SPACE

PROVIDE A CONTINUOUSLY RUNNING FAN OF A MIN OF 195 CFM IN THE LAUNDRY 5850 sf/100 = 59 cfm + (5x7.5) = 195 cfm REQUIRED TO MEET THE REQUIREMENTS OF TITLE 24 PART 6, MANDATORY MEASURES #150(00 AND THE ASHRAE 63.2

BATHROOM EXHAUST FANS MUST BE ENERGY STAR COMPLIANT, MUST BE DUCTED TO TERMINATE OUTSIDE THE BUILDING AND MUST BE CONTROLLED BY A HUMIDISTAT WHICH SHALL BE READILY ACCESSIBLE.

20 AMPS FOR BATHROOMS 2(20) AMP SMALL APPLIANCE CIRCUITS FOR THE KITCHEN MOTOR (FAU) JACUZZI MOTORS (IF APPLICABLE)

1- 20 AMP LAUNDRY CIRCUIT

DRYER EXHAUST DUCT SHALL NOT EXCEED A TOTAL COMBINED HORIZ & VERTICAL LENGTH OF 14 FEET, INCLUDING 2 - 90 ELBOWS

ALL EXHAUST OUTLETS SHALL BE LOCATED A MIN OF 10 FEET FROM DOORS, OCCUPIED AREAS & OPERABLE WINDOWS

ALL PLUMBING WASTE VENTS SHALL TERMINATED AT LEAST 10 FEET HORIZONTALLY & 3 FEET ABOVE ANY OPERABLE WINDOWS, DOOR, VENT OPENING OR AIR INTAKE

THE GRADE OF HORIZONTAL DRAINS SHALL NOT BE LESS THAN 1/4" PER FOOT

PROVIDE A PRESSURE ABSORBING DEVICE (OR APPROVED MECHANICAL DEVICE PER ASSE 1010 OR PDI-WH-201) LOCATED AS CLOSE AS POSSIBLE TO QUICK ACTING VALVES, THAT WILL ABSORB HIGH PRESSURE RESULTING FROM QUICK CLOSING OF QUICK ACTING VALVES

ALL OUTLETS SHALL BE TAMPER-RESISTANT PER ARTICLE 406.12 OF 2022 CEC.

ALL EXTERIOR OUTLETS SHALL BE WEATHER RESISTANT AND HAVE A WEATHER-RESISTANT BUBBLE COVER PER ARTICLE

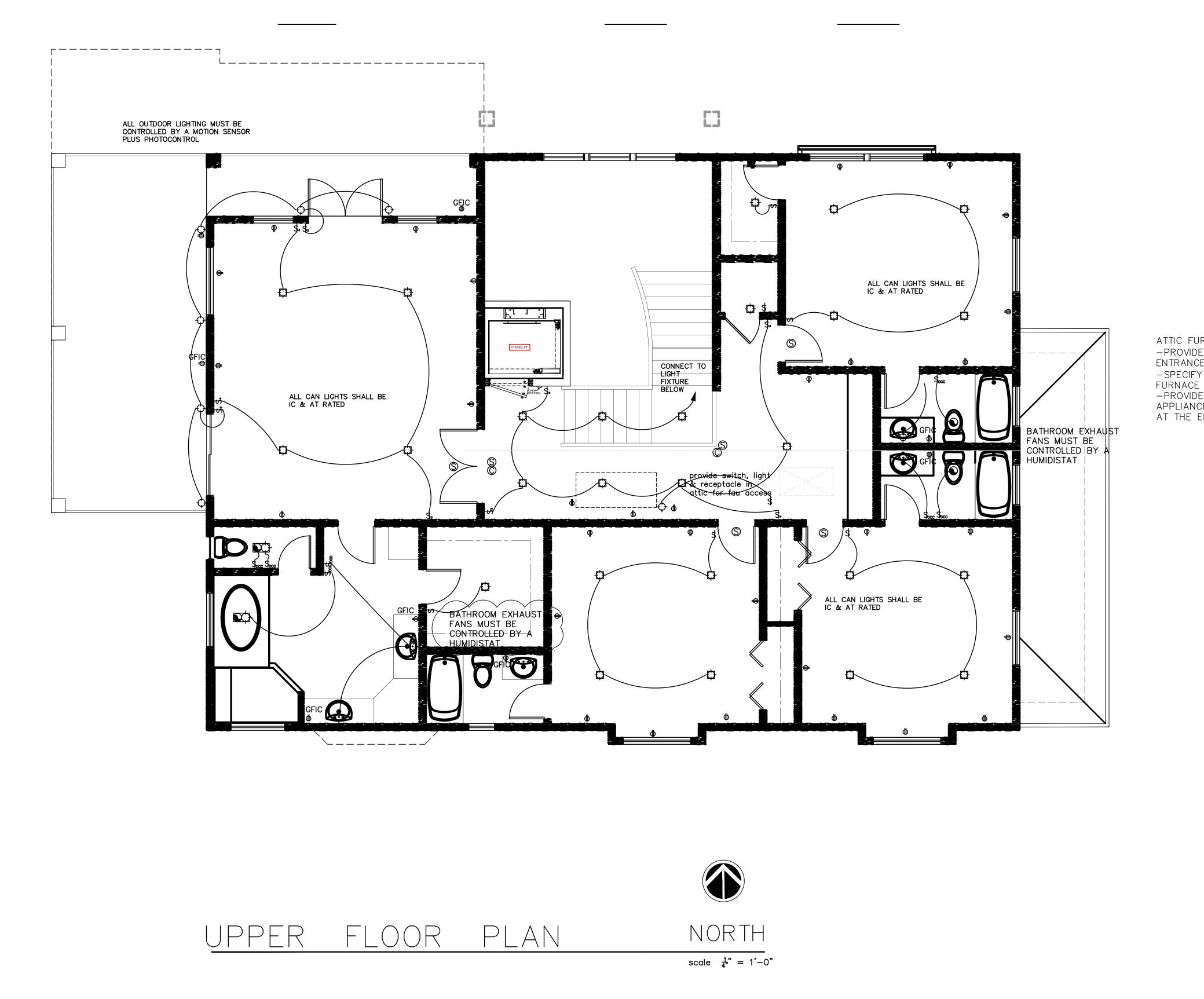
CARBON MONOXIDE ALARMS SHALL BE PLACED JUST OUTSIDE THE IMMEDIATE VICINITY OF EACH SLEEPING AREA PER

ALL 110 VOLT SINGLE-PHASE OUTLETS SHALL HAVE GROUND FAULT CIRCUIT PROTECTION AT THE FOLLOWING LOCATIONS:

ALL BATHROOM LIGHTS MUST BE HIGH EFFICACY & AT LEAST ONE FIXTURE IN EA BATHROOM MUST BE ON A

	SYMBOL LEGEND
Socc	MANUAL ON - VACANCY SENSOR SWITCH
\$₀	DIMMER SWITCH
\$	SINGLE POLE LIGHT SWITCH
\$3	3-WAY LIGHT SWITCH
\$₊	4-WAY LIGHT SWITCH
Ф	DUPLEX RECEPTACLE
	FAN/LITE COMBO
•	220V RECEPTACLE
S	SMOKE DETECTOR
C	CARBON MONOXIDE DETECTOR
₽	FLUORESCENT STRIP FIXTURE
	EXHAUST FAN -
•	LIGHT FIXTURE
Ф	RECESSED LIGHT FIXTURE

NO.	REVISIONS	DATE: 9/9/2024			STEVE BENZING ARCHITECT
s		DESIGNED BY: T. PENG	MAIN LEVEL	NEW RESIDENCE ON	C-17985 19103 EREDERICKSRI IRG
HEE1 		DRAWN BY: N.SINGH	ELECTRICAL	BELLA MADEIRA LANE	SARTOGA CALIFORNIA
		CHECKED BY: M. SAINI		APN: 654-64-012	TEL: 408-805-1328
JMBE		APPROVED BY: M. SAINI			EIVIAIL: Steve@benzarcn.com WEBSITE: BENZARCH.COM
R					



STEVE BENZING ARCHITECT	C-17985 12103 ERENERICKSRIIRG	SARTOGA CALIFORNIA	TEL: 408-805-1328	WEBSITE: BENZARCH.COM	
	NEW RESIDENCE ON	BELLA MADEIRA LANE	APN: 654-64-012		
	UPPER LEVEL	ELECTRICAL			
рате: 9/9/2024	DESIGNED BY: T. PENG	DRAWN BY: N.SINGH	CHECKED BY: M. SAINI	APPROVED BY: M. SAINI	
REVISIONS					

Ö N

SHEET NUMBER

ATTIC FURNACE SHALL COMPLY WITH SECTION 904.10 OF THE CMC. -PROVIDE SOLID FLOORING NOT LESS THA 24" WIDE FROM THE SERVICE ENTRANCE OPENING TO THE FURNACE -SPECIFY A 30"x30" MIN LEVEL SERVICE SPACE IN FRONT OF THE FURNACE IN ATTIC

-PROVIDE A RECEPTACLE OUTLET AND LIGHT FIXTURE NEAR THE APPLIANCE, WITH A SWITCH CONTROLLING THE LIGHTING FIXTURE LOCATED AT THE ENTRANCE TO THE PASSAGEWAY

	SYMBOL LEGEND
Socc	MANUAL ON - VACANCY SENSOR SWITCH
\$₀	DIMMER SWITCH
\$	SINGLE POLE LIGHT SWITCH
\$,	3-WAY LIGHT SWITCH
\$.	4-WAY LIGHT SWITCH
Ф	DUPLEX RECEPTACLE
	FAN/LITE COMBO
٥	220V RECEPTACLE
S	SMOKE DETECTOR
C	CARBON MONOXIDE DETECTOR
<b>b</b>	FLUORESCENT STRIP FIXTURE
	EXHAUST FAN -
¢	LIGHT FIXTURE
Ф	RECESSED LIGHT FIXTURE

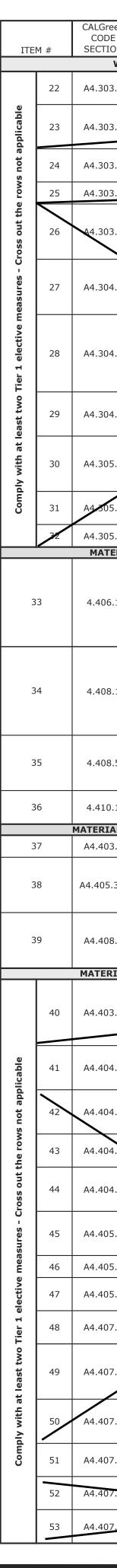


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# COUNTY OF SANTA CLARA

2019 CALGREEN RESIDENTIAL CHECKLIST (MANDATORY+TIER 1) County Amendments to CALGreen are in Italics. - Designer to cross out items that are not applicable to the project. - Installer or designer shall verify all applicable requirements have been satisfied and sign and date each row. County Inspectors will verify completion signatures and supporting documentation DURING CONSTRUCTION.

					<b>T TO COMPLETE</b> k Review Data	Ins	staller or Designer Verification	]
TTF	EM #	CALGreen CODE SECTION	REQUIREMENT	REFERENCE SHEET	Note or Detail No.	Date	Installer or Designer Signature	]
		-	PLANNING AND DESIGN: MANE			Duto		1
	1	4.106.2	A plan is developed and implemented to manage storm water drainage	CG-3	NOTE 1			
	Ŧ	4.100.2	during construction.					
			Construction plans indicates how site	CG-3	NOTE 2			]
	2	4.106.3	grading or a drainage system will manage all surface water flows to keep					
			water from entering buildings.					
			For new dwellings and the <b>rebuild</b> of existing dwellings that include a panel					
	3	4.106.4.1	upgrade or construction between panel	CG-3	NOTES 3 & 4			
			and parking area, a raceway to a dedicated 208/240-volt branch circuit					
			meeting the requirements, is installed.					
		1	PLANNING AND DESIGN: TIER 1 M Displaced topsoil is stockpiled for reuse	ANDATORY	REQUIREMENTS			-
	4	A4.106.2.3	in a designated area and covered or	CG-4	NOTE 7			
			protected from erosion. Not less than 20 percent of the total					-
	5	A4.106.4	parking, walking or patio surfaces are	CG-4	NOTE 9			
			permeable.					-
			For new dwellings with attached private garages, a dedicated 208/240-					
	6	A4.106.8.1	volt branch circuit including an	CG-4	NOTE 12			
			overcurrent protective device is installed in the raceway, meeting the					
			applicable requirements.					1
	1		PLANNING AND DESIGN: TIER 1 An infill site, greyfield site or EPA-	ELECTIVE R	EQUIREMENTS			4
	7	A4.103.1	recognized and Brownfield site is	CG-4	NOTE 1			
ole			applicable. Community connectivity is facilitated					1
icat	8	A4.103.2	by one of the approved methods.	CG 4	NOTE 2			
applicable			An individual with oversight					
			responsibility for the project has participated in an educational program					/
s not	9	A4.104.1	promoting environmentally friendly	CG-4	NOTE 3			$\left \leftarrow\right.$
rows			design or development and has provided instruction to appropriate					
her			entities.					1
out the			Existing buildings are disassembled for					
	10	A4.105.2	reuse or recycling of building materials. The proposed structure utilizes at least	CG-4	NOTE 4			
Cross			one of the listed materials.					
- I			Soil analysis is performed by a licensed					-
measures	11	A4.106.2.1	design professional and the findings	CG-4	NOTE 5			
asu			are utilized in the structural design of the building.					
	10	44 106 2 2	Soil disturbance and erosion are					
ive	12	A4.106.2.2	minimized by using one or more of the methods listed	CG-4	NOTE 6			
elective			Landscape areas disrupted during					1
-			construction are restored to be consistent with native vegetation					
Tier	13	A4.106.3	and/or at least 75% native California	CG-4	NOTE 8			
			or drought tolerant plant and tree are utilized.					
ît tv			A vegetated roof for at least 50% of					-
as	14	A4.106.6	the roof area is installed. Vegetated roof complies with CBC chapters 15	<del>CG-4</del>	NOTE 10			
<u></u>			and 16.					]
at least two								
			Nonroof heat islands are reduced for					
	15	A4.106.7	50% of sidewalks, patios, driveways, or other paved areas by using one or	CG-4	NOTE 11			$\leftarrow$
	15	A4.106.7	50% of sidewalks, patios, driveways,					$\leftarrow$
Comply with at le			50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed	CG-4 CG-4	NOTE 11 NOTE 13			$\leftarrow$
	15	A4.106.7 A4.106.10	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed.		NOTE 13 TABLE			$\leftarrow$
			<ul><li>50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed.</li><li>Outdoor lighting systems are designed and installed to comply with one of the</li></ul>	CG-4 CG-1	NOTE 13 TABLE A4.106.10			<
Comply with	16	A4.106.10	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. ENERGY EFFICIENCY: MANDA Building meets or exceeds the	CG-4 CG-1	NOTE 13 TABLE A4.106.10			$\leftarrow$
Comply with			50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. ENERGY EFFICIENCY: MAND/ Building meets or exceeds the requirements of the California Building	CG-4 CG-1 ATORY REQU	NOTE 13 TABLE A4.106.10			<
Comply with	16	A4.106.10 4.201.1	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. ENERGY EFFICIENCY: MAND/ Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. ATER EFFICIENCY & CONSERVATION	CG-4 CG-1 <b>ATORY REQ</b> T24 SHEETS	NOTE 13 TABLE A4.106.10 JIRMENTS	NTS		$\leftarrow$
Comply with	16	A4.106.10 4.201.1	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. ENERGY EFFICIENCY: MAND/ Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. /ATER EFFICIENCY & CONSERVATION Plumbing Fixtures (water closets and	CG-4 CG-1 <b>ATORY REQ</b> T24 SHEETS	NOTE 13 TABLE A4.106.10 JIRMENTS	NTS		
Comply with	16	A4.106.10 4.201.1	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. <b>ENERGY EFFICIENCY: MAND</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. <b>ATER EFFICIENCY &amp; CONSERVATION</b> Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential	CG-4 CG-1 ATORY REQU T24 SHEETS N: MANDATO	NOTE 13 TABLE A4.106.10 JIRMENTS	NTS		
Comply with	16	A4.106.10 4.201.1	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. <b>ENERGY EFFICIENCY: MAND</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. <b>ATER EFFICIENCY &amp; CONSERVATION</b> Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen	CG-4 CG-1 <b>ATORY REQ</b> T24 SHEETS	NOTE 13 TABLE A4.106.10 JIRMENTS	NTS		
Comply with	16	A4.106.10 4.201.1	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. <b>ENERGY EFFICIENCY: MAND</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. <b>ATER EFFICIENCY &amp; CONSERVATION</b> Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4.	CG-4 CG-1 ATORY REQU T24 SHEETS N: MANDATO	NOTE 13 TABLE A4.106.10 JIRMENTS	NTS		
Comply with	16	A4.106.10 4.201.1	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. <b>ENERGY EFFICIENCY: MAND</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. <b>ATER EFFICIENCY &amp; CONSERVATION</b> Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4. Plumbing fixtures and fittings required	CG-4 CG-1 ATORY REQU T24 SHEETS N: MANDATO	NOTE 13 TABLE A4.106.10 JIRMENTS	NTS		
Comply with	16	A4.106.10 4.201.1	<ul> <li>50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed.</li> <li>Outdoor lighting systems are designed and installed to comply with one of the methods listed.</li> <li>ENERGY EFFICIENCY: MAND/</li> <li>Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.</li> <li>ATER EFFICIENCY &amp; CONSERVATION</li> <li>Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4.</li> <li>Plumbing fixtures and fittings required in CALGreen Section 4.303.1 are installed in accordance with the CPC</li> </ul>	CG-4 CG-1 ATORY REQU T24 SHEETS N: MANDATO	NOTE 13 TABLE A4.106.10 JIRMENTS	NTS		
Comply with	16 17 18	A4.106.10 4.201.1 4.303.1	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. <b>ENERGY EFFICIENCY: MAND</b> . Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. <b>ATER EFFICIENCY &amp; CONSERVATION</b> Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4. Plumbing fixtures and fittings required in CALGreen Section 4.303.1 are installed in accordance with the CPC and meet the applicable referenced	CG-4 CG-1 ATORY REQU T24 SHEETS CG-3	NOTE 13 TABLE A4.106.10 JIRMENTS	NTS		
Comply with	16 17 18	A4.106.10 4.201.1 4.303.1	<ul> <li>50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed.</li> <li>Outdoor lighting systems are designed and installed to comply with one of the methods listed.</li> <li>ENERGY EFFICIENCY: MAND/</li> <li>Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.</li> <li>ATER EFFICIENCY &amp; CONSERVATION</li> <li>Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4.</li> <li>Plumbing fixtures and fittings required in CALGreen Section 4.303.1 are installed in accordance with the CPC</li> </ul>	CG-4 CG-1 ATORY REQU T24 SHEETS CG-3	NOTE 13 TABLE A4.106.10 JIRMENTS	NTS		
Comply with	16 17 18	A4.106.10 4.201.1 4.303.1 4.303.2	<ul> <li>50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed.</li> <li>Outdoor lighting systems are designed and installed to comply with one of the methods listed.</li> <li>ENERGY EFFICIENCY: MAND.</li> <li>Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.</li> <li>ATER EFFICIENCY &amp; CONSERVATION Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4.</li> <li>Plumbing fixtures and fittings required in CALGreen Section 4.303.1 are installed in accordance with the CPC and meet the applicable referenced standards.</li> <li>Outdoor potable water use in landscape areas comply with a local</li> </ul>	CG-4 CG-1 ATORY REQU T24 SHEETS I: MANDATO CG-3	NOTE 13 TABLE A4.106.10 JIRMENTS PRY REQUIREME NOTE 5 NOTE 5	NTS		
Comply with	16 17 18	A4.106.10 4.201.1 4.303.1	<ul> <li>50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed.</li> <li>Outdoor lighting systems are designed and installed to comply with one of the methods listed.</li> <li>ENERGY EFFICIENCY: MAND.</li> <li>Building meets or exceeds the requirements of the California Building Energy Efficiency Standards.</li> <li>ATER EFFICIENCY &amp; CONSERVATION Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4.</li> <li>Plumbing fixtures and fittings required in CALGreen Section 4.303.1 are installed in accordance with the CPC and meet the applicable referenced standards.</li> <li>Outdoor potable water use in</li> </ul>	CG-4 CG-1 ATORY REQU T24 SHEETS I: MANDATO CG-3	NOTE 13 TABLE A4.106.10 JIRMENTS	NTS		
Comply with	16 17 18	A4.106.10 4.201.1 4.303.1 4.303.2	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. <b>ENERGY EFFICIENCY: MAND/</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. <b>ATER EFFICIENCY &amp; CONSERVATION</b> Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4. Plumbing fixtures and fittings required in CALGreen Section 4.303.1 are installed in accordance with the CPC and meet the applicable referenced standards. Outdoor potable water use in landscape areas comply with a local water efficient landscape or the current California DWR MWELO, whichever is more stringent.	CG-4 CG-1 ATORY REQU T24 SHEETS I: MANDATO CG-3	NOTE 13 TABLE A4.106.10 JIRMENTS PRY REQUIREME NOTE 5 NOTE 5	NTS		
Comply with	16 17 18	A4.106.10 4.201.1 4.303.1 4.303.2	50% of sidewalks, patios, driveways, or other paved areas by using one or more of the methods listed. Outdoor lighting systems are designed and installed to comply with one of the methods listed. <b>ENERGY EFFICIENCY: MAND/</b> Building meets or exceeds the requirements of the California Building Energy Efficiency Standards. <b>ATER EFFICIENCY &amp; CONSERVATION</b> Plumbing Fixtures (water closets and urinals) and fittings (faucets and showerheads) installed in residential buildings comply with CALGreen Sections 4.303.1.1 through 4.303.1.4.4. Plumbing fixtures and fittings required in CALGreen Section 4.303.1 are installed in accordance with the CPC and meet the applicable referenced standards. Outdoor potable water use in landscape areas comply with a local water efficient landscape or the current California DWR MWELO, whichever is	CG-4 CG-1 ATORY REQU T24 SHEETS I: MANDATO CG-3	NOTE 13 TABLE A4.106.10 JIRMENTS PRY REQUIREME NOTE 5 NOTE 5	NTS		



			<b>TO COMPLETE</b> Review Data	Installer or Designer Verification	7				<b>T TO COMPLETE</b> ck Review Data	<b>Installer or Designer</b> Verification			
CALGreen CODE	REFER		Note or Detail	Installer or Designer	ITEM #	CALGreen CODE SECTION	REQUIREMENT	REFERENCE SHEET	Note or Detail No.	Installer or Designer Date Signature			
	REQUIREMENT SHI TER EFFICIENCY & CONSERVATION : TIER Kitchen faucet maximum flow rate	IEET		Date Signature ENTS		SECTION	ENVIRONMENTAL QUALITY: MAN Any installed gas fireplace is a direct-		-				
A4.303.1	does not exceed 1.5 gpm at 60 psi. CG See exceptions.	G-4	NOTE 14		54	4.503.1	vent sealed-combustion type. Any installed woodstove or pellet stove comply with US EPA Phase II emission	CG-3	Note 13				
A 4 202 2	Alternate nonpotable water resources are used for indoor potable water reduction and are installed in	G-4	NOTE 15				limits where applicable. Duct openings and other related air						
	accordance with CPC. At least one qualified ENERGY STAR dishwasher or clothes washer is CG	G-4	NOTE 16			4.504.1	distribution component openings are covered during construction until final startup of the HVAC equipment.	CG-3	Note 14				
	Installed. Nonwater urinals or composting toilets	6-4	NOTE 17		56	4.504.2.1	Adhesives, sealants and caulks are compliant with VOC and other toxic compound limits.	CG-2 CG-2	Table 4.504.1 Table 4.504.2 Note 15				
	Dwelling is equipped with a demand hot water recirculation system. The				57	4.504.2.2	Architectural paints and coatings are compliant with VOC limits.	CG-2 CG-3	Table 4.504.3 Note 16				
	system is installed per CPC, CEnC, and CG the manufacturer's installation instructions.	G-4	NOTE 18		58	4.504.2.3	Aerosol paints and coatings are compliant with product weighted MIR limits for ROC and other toxic	CG-3	Note 17				
A4.304.1	An approved rainwater catchment system is designed and installed to use rainwater generated by at least 65% of CG	G-4	NOTE 19				compounds. Documentation are provided to the						
	the available roof area. The system is installed per CPS A water efficient landscape irrigation					4.504.2.4	have been used.	CG-3	Note 18				
	design that eliminates the use of potable water, is provided. Nethod used to accomplish the requirements		NOTE 20		60	4.504.3	Carpet and carpet systems meet the applicable testing and product requirements.	CG-2 CG-3	Table 4.504.1 Note 19				
	comply with California Building Standards Code and one or more of		NOTE 20		61	4.504.5	Hardwood plywood, particleboard and medium density fiberboard composite wood meet formaldehyde limits.	CG-1 CG-3	Table 4.504.5 Note 21				
AA 30A 3	listed methods. Separate submeters or metering devices for outdoor potable water use is provided for landscape areas less	G-4	NOTE 21		62	4.504.5.1	Documentation is provided to the County of Santa Clara to verify composite wood meets applicable	CG-3	Note 22				
	than 5000 sq.ft. Alternative plumbing piping is installed					4.505.2	formaldehyde limits. Vapor retarder and capillary break is	CG-3	Note 23				
	to permit the discharge from the clothes washer or other fixtures to be CG used for an irrigation system in	G-4	NOTE 22				installed at slab-on-grade foundations. Moisture content of building materials used in wall and floor framing do not						
	compliance with CPC. Dual water piping is installed for future	G-4	NOTE 23		64	4.505.3	exceed 19% prior to enclosure and is checked before enclosure. Insulation products are dry prior to enclosure.	CG-3	Note 24				
	locations. Recycled water is used for landscape	G-4	Note 24	+	65	4.506.1	Each bathroom is mechanically ventilated and comply with applicable requirements.	CG-3	Note 25				
MATERIA	Irrigation.  L CONSERVATION & RESOURCE EFFICIENCE  Annular spaces around pipes, electric  achieve conduits on other energing in	ICY: MAN		IREMENTS	66	4.507.2	Heating and air-conditioning systems are sized, designed, and equipment is selected by using one of the methods	CG-3	Note 26				
4 406 1	cables, conduits or other openings in plates at exterior walls are protected against the passage of rodents by	G-3	Note 9				Isted. ENVIROMENTAL QUALITY: TIER 1 M At least 90% of resilient flooring		1	 S			
	closing such openings with cement mortar, concrete masonry or similar method acceptable to the County of				67	A4.504.2	complies with applicable VOC limits. Thermal insulation in the building is	CG-4	Note 43				
	Santa Clara. Recycle and/or salvage for reuse a minimum of 65 percent of the				68	A4.504.3	installed in compliance with applicable standards. ENVIROMENTAL QUALITY: TIER 1	CG-4	Note 44 REQUIREMENTS			Гт	ן
4 408 1	nonhazardous construction and	G-3	Note 10		e Tier Cross	A4.504.1	Composite wood products made with NAE or ULEF resins are used.	CG-4	Note 42				
	(CALGreen 4.408.2) or Utilize a waste management company (CALGreen				20 Lares - 0	A4.506.2	Filters at MERV 8 or higher are used on return air openings, during construction.	CG-4	Note 45		$\leftarrow$		
	4.408.3). Documentation is provided to County of Santa Clara which demonstrates		Construction Waste		th at le		Direct vent heating and cooling equipment are utilized where the						
	compliance with CALGreen sections 4.408.2 or 4.408.3.	G-3	Management Forms Note 11		Lt the control of the root of	A4.506.3	equipment will be located in the conditioned space or the space heating and water heating equipment is	<del>CG</del> -4	Note 46				UЩ
4.410.1	An operation and maintenance manual is placed in the building at the time of final inspection.	G-3	Note 12		Con 1 e oui	INSTALLE	installed in an isolated mechanical room. FR AND SPECIAL INSPECTOR QUALIFIC	CATIONS: N	ANDATORY REG				ΞΞ II
A4 403 2	Reduction in cement use in foundation mix design is not less than 20 percent.       CC	<b>TIER 1 M</b> G-4	MANDATORY RE		72	702.1	HVAC system installers are trained and certified in the proper installation of HVAC systems.	CG-3	Note 27				
	Use materials with a total RCV (recycled content value) not less than a 10-percent of the total material cost CG	G-4	Note 33		73	702.2	If required by County of Santa Clara, owner or owner's agent shall employ special inspector who are qualified and	CG-3	Note 28				
	of the project except structural framing material.					702.2	able to demonstrate competence in the discipline they are inspecting.	66-3				Ξ Ξ Σ	
AA 409 1	Reduce construction waste by at least 65%. Documentation is submitted to the County of Santa Clara		Construction Waste Management				Documentation used to show compliance with this code may include construction documents, plans,						
	demonstrating compliance	G-34 Y: TIER 1	Forms Note 41 L ELECTIVE REQ	UIREMENTS	74	703.1	specifications, builder or installer certification, inspection reports, or other methods acceptable to County of	CG-3	Note 29				
	A Frost-Protected Shallow Foundation (FPSF) is utilized in compliance with CRC. The required manual includes		NOTE OF				Santa Clara which show substantial conformance.						
A4.403.1	instructions to the owner or occupant regarding the necessity for heating the structure per CRC R403.3.	6-4	NOTE 25		Maximum F	TABLE 4 FORMALDEH						Z Z	
A4 404 1	Beams, headers and trimmers are	G-4	NOTE 27		Hardwood plyw	PRODUCT	CURRENT LIMIT 0.05						4
	CRC. Building dimensions and layouts are					ood composite cor							
A4.404.2	80% of the structure.	G-4	NOTE 28		Medium density Thin medium de		0.11 0.13						
A4.404.3	lumber	G-4	NOTE 29		Resources Boar	, Air Toxics Contr	those specified by the California Air ol Measure for Composite Wood as 1333. For additional information, see						
A 4 0 4 4	Material lists are included in the plans which specify the material quantity and direction for on-site cuts, for the listed	G-4	NOTE 30		California Code	of Regulations, Title	17, Sections 93120 through 93120.12. maximum thickness of $\frac{5}{16}$ inch (8 mm).					6 1	
	systems. Prefinished building materials are				-	MAXI	TABLE A4.106.10 MUM ALLOWABLE BACKLIGHT, UPLIGHT AND	•	,				
A4.405.1	painting or staining. Acceptable material list is per CALGreen A4.495.1.	G-4	NOTE 31		Maximum Allo	ALLOWAB wable Backlight l	LE RATING 1	NE LIGHTING 2	G ZONE LIGHTING 2 3	ZONE LIGHTING ZONE 4		Ja	
A4.405.2	additional coverings are used.	G-4	NOTE 32 NOTE 34		Luminaire great	er than 2 mounting	g heights (MH) from property line No Limit 2 MH from property line B2	No L		it No Limit B4			
	agricultural byproducts are used. Foundation and landscape drains with				Luminaire back	nemisphere is less	- 1 MH from property lineB1than 0.5 MH from property lineB0	B		B3 B2		6	
	location is installed. Roof gutter and downspout system is	G-4	NOTE 35		For area lighting		U0	U	0 U0	U0		Jf	
/	to landscape drains with approved on-	G-4	NOTE 36	$\mathbf{i}$	Maximum Allo	wable Glare Rati	5	U					
	site discharge. Flashing details complying with	G_4	NOTE 27		Luminaire front	- -	2 MH from property line G0	G	1 G1	G4 G2			
A4.407.3	manufacturer's instructions are provided on the plans.	G-4	NOTE 37		Luminaire back	nemisphere is less	- 1 MH from property lineG0than 0.5 MH from property lineG0	G	0 G0	G1 G1		G I	
A4.407.4		G-4	NOTE 38		Administrative ( 2. For property lin	<i>ode.</i> s that abut public w	e not applicable; refer to Lighting Zones as defined in valkways, bikeways, plazas and parking lots, the proper-	ty line may be c	onsidered to be 5 feet b	eyond the actual property			
A4.407.6	water intrusion by one or more listed CG methods.	G-4	NOTE 39		considered to be	the centerline of the operty line is less t	bliance with this section. For property lines that abut pub e public roadway or public transit corridor for the purpos han or equal to two mounting heights from the back l	se of determining	g compliance with this s	ection.		Ĭ	
A4.407.7	A permanent overhang or awning at least two feet in depth is provided at CG all exterior walls.	G-4	Note 40		<ul> <li>4. General lighting shall meet U-va</li> <li>5. If the nearest pr</li> </ul>	luminaires in areas s ue limits for "all oth perty line is less tha	such as outdoor parking, sales or storage lots shall meet t er outdoor lighting." an or equal to two mounting heights from the front hemi		•				
					rating shall be n			iul					
	CAL Green		ne or	· Two Fai	mily Resident	ial P	roject Mand	ator	ง จทก	Tier1 Re	mirements	COUNTD-	
						1411		<i>a</i> .UI	June		7411 011101110		CG-1
	County of	Sai	nta C	lara								TA CL	
													03/30/2020

# TABLE 4.504.1 ADHESIVE VOC LIMIT^{1, 2}

ARCHITECTURAL APPLICATIONS	VOC LIMIT
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesives not specifically listed	50
SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass	80

1. If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest VOC content shall be allowed. 2. For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule

> TABLE 4.504.2 SEALANT VOC LIMIT

1168.

SEALANTS	VOC LIMIT
Architectural	250
Marine deck	760
Nonmembrane roof	300
Roadway	250
Single-ply roof membrane	450
Other	420
SEALANT PRIMERS	
Architectural Nonporous Porous	250 775
Modified bituminous	500
Marine deck	760
Other	750

Less Water and Less Exempt Co	
Flat coatings	50
Nonflat coatings	100
Nonflat-high gloss coatings	150
SPECIALTY COATINGS	100
Aluminum roof coatings	400
Basement specialty coatings	400
Bituminous roof coatings	50
Bituminous roof primers	350
Bond breakers	350
Concrete curing compounds	350
Concrete/masonry sealers	100
Driveway sealers	50
Dry fog coatings	150
Faux finishing coatings	350
Fire resistive coatings	350
Floor coatings	100
Form-release compounds	250
Graphic arts coatings (sign paints)	500
High temperature coatings	420
ndustrial maintenance coatings	250
Low solids coatings ¹	120
Magnesite cement coatings	450
Mastic texture coatings	100
Metallic pigmented coatings	500
Aulticolor coatings	250
Pretreatment wash primers	420
Primers, sealers, and undercoaters	100
Reactive penetrating sealers	350
Recycled coatings	250
Roof coatings	50
Rust preventative coatings	250
Shellacs	200
Clear	730
Opaque	550
Specialty primers, sealers and undercoaters	100
Stains	250
Stone consolidants	450
Swimming pool coatings	340
Traffic marking coatings	100
Tub and tile refinish coatings	420
Vaterproofing membranes	250
Wood coatings	275
Vood preservatives	350
Zinc-rich primers	340

TABLE 4.504.3

compounds. 2. The specified limits remain in effect unless revised limits are listed in

subsequent columns in the table. 3. Values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 1, 2008. More information is available from the Air Resources Board.

# Table 1 - Recycled Content Value Calculations

A	В	C	D	E	F	G	Н
		Recycled		Post-	Pre-		
		Content	Material/	Consumer	Consumer	Recycled	Recycled
		Information	Assembly	Recycled	Recycled	Content	Content
Material/Assembly *	Manufacturer	Source	Cost (\$)	Content (%)	Content (%)	(%)	Value (\$)
				Total Recy	cled Conten	t Value (\$):	
or calculating the total mat	terial cost, choose ONL	Y ONE of the three o	ptions below:				
L.Size of project (sf):		Cost per sf:		x 45% =	Total Mater	ial Cost (\$):	
2.Estimated project cost,	/valuation (\$):			x 45% =	Total Mater	ial Cost (\$):	
3.Sum of estimated and/	or actual cost of ma	terials used in the	project	=	Total Mater	ial Cost (\$):	
		cled Content Va				•••	
	Total Recyt		iue as a per	centage of t		terial Cost.	

# Construction Waste Management (CWM) Plan

	Fill out the	form including diversion
oject Name:	e Residence.	
b #:		
oject Manager:	TBD	
aste Hauling Com	pany: TBD	
ontact Name:	TBD	

All Subcontractors shall comply with the project's Construction V All Subcontractor foremen shall sign the CWM Plan Acknowledg Subcontractors who fail to comply with the Waste Management appropriate. For instance, Subcontractors who contaminate debris

- backcharge or withheld payment, as deemed appropriate. 1. The project's overall rate of waste diversion will be 65
- 2. This project shall generate the least amount of waste poshandling procedures to reduce broken and damaged mater is generated on this jobsite will be diverted from the land Spreadsheet 1, enclosed, identifies the waste materials that
- and the anticipated diversion rate. 4. Waste prevention and recycling activities will be discussed
- tractor comes on-site, the WMP Coordinator will present identify materials to be salvaged and the procedures for ing that they have read and will abide by the CWM Plan posted at the jobsite trailer. 5 Salvage: Excess materials that cannot be used in the proj
- donated to charity if feasible.
- General Contractor will provide a commingled dro drop boxes will be taken to 1333 Old Oakland Rd, San J site conditions permit, additional drop boxes will be used ensure the highest waste diversion rate possible.
- 7. In the event that the waste diversion rate achievable vi required, then a strategy of source-separated waste d separated waste refers to jobsite waste that is not c single material type, such as clean wood or metal. Notes:
  - 1. Waste stream reduction refers to efforts taken by four (4) pounds per square foot of building area.
  - 2. When using waste stream reduction measures, pounds per square foot of building area. This red
  - tion percentage calculations.
- 8. General Contractor will track and calculate the qu sion rate for the project. General Contractor will hauled and the waste diversion rate being achieved on the gross weights and diversion rates for commingled debris that waste hauler does not service any or all of the debris boxes on the project, the General Contractor will work with the responsible parties to track the material type and weight (in tons) in such debris boxes in order to determine waste diversion rates for these materials.
- 9. In the event that Subcontractors furnish their own debris boxes as part of their scope of work, such Subcontractors shall not be excluded from complying with the CWM Plan and will provide **General Contractor** weight and waste diversion data for their debris boxes.
- 11. Debris from jobsite office and meeting rooms will be collected by General Contractor who will, at a minimum, recycle office paper, plastic, metal and cardboard.

ASSEMBLY PRC
А
Assembly Pro
Total V
* Use one sheet
** Materials used
bearing structure
The sum of post

Proje	ect Name:	L
Proje	ect Location:	В
Proje	ect Manager:	
Proje	ect Owner:	М

The following section shall be completed by a person with overall responsibility for the planning and design portion of the project. **DECLARATION STATEMENT:** 

- agency.

Responsible Perso

Date Signed:

Notes

management (C	vvivi) Plan		Constructi	on Waste Manageme	ent (CWM) Worksl	heet
rsion rate and facility name	es and addresses		Conocidoti	on Waoto managonia		
Legend:	Hauling Company Sorting Facility Name a Disposal Service Comp		Project Name: Le Residence Job Number:		To be determined	]
Waste Management Plan. Igment Sheet.	To be determined and provided by General Contractor	Project Mar	hager <u>TBD</u> N	Waste Hauling CompaTPD	and provided by General Contractor	
t Plan will be subject to backcharg	ges or withholding of payment,	as deemed	Construction waste Management (C			
s boxes that have been designated $\frac{1}{2}$ %.	for a single material type will be	e subject to	WASTE MATERIAL TYPE	DIVERSION N COMMINGLED AND SORTED OFF SITE	IETHOD: SOURCE SEPARATED ON SITE	PROJECTED DIVERSION RATE
ossible by planning and ordering or erials and reusing materials whenever	carefully, following all proper s ver possible. The majority of the	storage and waste that	Asphalt Concrete			
Ifill and recycled for other use. at will be generated on this project	, the diversion strategy for each	waste type	Shotcrete			
sed at the beginning of weekly sub at him/her with a copy of the CWM handling jobsite debris. All Subcor n. Subcontractor Acknowledgmer	A Plan and provide a tour of the national sector foremen will acknowled	e jobsite to lge in writ-	Metals Wood Rigid insulation			
ject, nor returned to the vendor, wi	ill be offered to site workers, the	e owner, or	Fiberglass insulation Acoustic ceiling tile			
op box at the jobsite for most of the Jose The average diversion rate for the average diversion rate for the particular phases of construction of the particular phases of the phases phases of the phases of the phases of the phases	r commingled waste will be	_%. As	Gypsum drywall Carpet/carpet pad Plastic pipe			
a the strategy described in (6) abo liversion and/or waste stream r commingled but is instead allo	eduction will be implemente	ed. Source	Plastic buckets Plastic Hardiplank siding and boards			
y the builder to reduce the amount	of waste generated by the proje	ct to below	Glass Cardboard Pallets			
the gross weight of the product is luction is considered additional div	subtracted from a base weight version and can be used in the w	of four (4) aste reduc-	Job office trash, paper, glass & plastic bottles, cans, plastic			
antity (in tons) of all waste leaving provide Project Manager with ar project. General Contractor	n updated monthly report on gr	oss weight	Alkaline and rechargeable batteries, toner cartridges, and electronic devices			
s and for each source-separated wa	ste stream leaving the project. I	n the event	Other: Other:			

10. In the event that site use constraints (such as limited space) restrict the number of debris boxes that can be used for collection of designated waste the project Superintendent will, as deemed appropriate, allocate specific areas onsite where individual material types are to be consolidated. These collection points are not to be contaminated with non-designated waste types.

# Table 2 - Assembly Product Recycled Content Calculations *

Other

Other:

ODUCT:								
	В	С	D	E	F	G	Н	I
			Post-	Post-	Pre-	Pre-	Proportional	Proportional
			Consumer	Consumer	Consumer	Consumer	Post-	Pre-
	Material	Material	Recycled	Recycled	Recycled	Recycled	Consumer	Consumer
oduct**	Weight (lb)	Weight (%)	Content(lb)	Content (%)	Content(lb)	Content (%)	Content (%)	Content (%)
							/	
							$\overline{}$	
Neight:								
-			Asser	mbly Post-Co	nsumer Recyc	led Content:		
Assembly Pre-Consumer Recycled Content:								
per assen	nbly product.							
	d as components of the structural frame shall not be used to calculate recycled content. The structural frame includes the load al elements, such as wall studs, plates, sills, columns, beams, girders, joists, rafters, and trusses.							

# **RECYCLED CONTENT - DECLARATION STATEMENT**

ts of each material in the assembly product cannot exceed 100°

_e Residence Bella Maderia Lane, San Jose CA

Mr. James Le

• I certify under penalty of perjury, under the laws of the State of California, the information provided is true and correct.

• I certify that the materials, components, assembly products or manufactured devices identified on this certificate conform to all applicable codes and regulations, and the installation is consistent with the plans and specifications approved by the enforcing

n's Name:	Responsible Person's Signature:
	Position/Title:
	Attachments:

CALGreen One or Two Family Residential Project Mandatory and Tier1 Requirements County of Santa Clara

Type of Material V	Material Neight (lb)	Post- Consumer Recycled Content(lb)	Post- Consumer Recycled Content (%)	Pre- Consumer Recycled Content(lb)	Pre- Consumer Recycled Content (%)
	veignt (ib)	Content(Ib)	Content (%)	Content(Ib)	Content (%)
When the Post-Consumer and Pre- nay be used for calculating the pero ssembly calculations.		-	-		
tep 1 - Insert the type of material into	Column A.				
itep 2 - Insert the weight of material (p	rovided by the	manufacturer or of	her source) into C	olumn B.	
<u>step 3</u> - Insert the weight of Post-Cons	umer Recycled	Content (provided	by the manufactu	rer or other source	) into Column C.
tep 4 - Insert the weight of Pre-Consu	mer Recycled C	Content (provided I	by the manufacture	er or other source)	into Column E.
<u>Step 5</u> - Divide the values in Column C naterial in percentages into Column D.	-	n Column B; insert	the Post-Consum	er Recycled Conte	nt of each
<u>Step 6</u> - Divide the values in Column E n percentages into Column F.	by the values ir	n Column B; insert	the Pre-Consume	r Recycled Conten	t of each material
<u>Step 7</u> - Transfer the percentages of Po Table 1, Columns E and F.	ost-Consumer a	nd Pre-Consumer	Recycled Content	from Column D an	d Column F to

	<b>Naste Management</b> hay be used to assist in documenting	. ,	•
Project Name: Le Residence	hay be used to assist in documenting	comphance with the waste manag	ement plan.
Job Number:		To be determine	ed
Project Manager: TBD		and provided by General Contra	
Waste Hauling Company:			
CWM Plan Acknowledgment			
The Foreman for each new Subcontr complete this Acknowledgment Forn	ractor that comes on site is to receive a n.	copy of the Construction Waste Ma	nagement Plan and
I have read the Waste Management Plan plan.	n for the project; I understand the goals of	this plan and agree to follow the proc	edures described in this
DATE	SUBCONTRACTOR COMPANY NAME	FOREMAN NAME	SIGNATURE



CG-	-2

03/30/2020

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# **CALGREEN 2019 NOTES – MANDATORY REQUIREMENTS:**

**1.** PROJECTS WHICH DISTURB LESS THAN ONE ACRE OF SOIL AND ARE NOT PART OF A LARGER COMMON PLAN OF DEVELOPMENT WHICH IN TOTAL DISTURBS ONE ACRE OR MORE, SHALL MANAGE STORM WATER DRAINAGE DURING CONSTRUCTION. SEE CALGREEN 4.106.2 FOR FURTHER DETAILS.

2. CONSTRUCTION PLANS SHALL INDICATE HOW THE SITE GRADING OR DRAINAGE SYSTEM WILL MANAGE ALL SURFACE WATER FLOWS TO KEEP WATER FROM ENTERING BUILDINGS. SWALES, WATER COLLECTION AND DISPOSAL SYSTEMS, FRENCH DRAINS, WATER RETENTION GARDENS, AND OTHER MEASURES CAN BE USED. EXCEPTION: ADDITIONS AND ALTERATIONS NOT ALTERING THE DRAINAGE PATH.

3. NEW CONSTRUCTION SHALL COMPLY WITH CALGREEN SECTION 4.106.4.1 TO FACILITATE FUTURE INSTALLATION AND USE OF EV CHARGERS. ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE) SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE, ARTICLE 625.

EXCEPTIONS:

- A. WHERE COUNTY OF SANTA CLARA HAS DETERMINED EV CHARGING AND INFRASTRUCTURE ARE NOT FEASIBLE.
- B. ACCESSORY DWELLING UNITS (ADU) AND JUNIOR ACCESSORY DWELLING UNITS (JADU) WITHOUT ADDITIONAL PARKING FACILITIES.

**4.** FOR EACH DWELLING UNIT, INSTALL A LISTED RACEWAY TO ACCOMMODATE A DEDICATED 208/240-VOLT BRANCH CIRCUIT. THE RACEWAY SHALL NOT BE LESS THAN TRADE SIZE 1 (NOMINAL 1-INCH INSIDE DIAMETER). THE RACEWAY SHALL ORIGINATE AT THE MAIN SERVICE OR SUBPANEL AND SHALL TERMINATE INTO A LISTED CABINET, BOX OR OTHER ENCLOSURE IN CLOSE PROXIMITY TO THE PROPOSED LOCATION OF AN EV CHARGER. RACEWAYS ARE REQUIRED TO BE CONTINUOUS AT ENCLOSED, INACCESSIBLE OR CONCEALED AREAS AND SPACES. THE SERVICE PANEL AND/OR SUBPANEL SHALL PROVIDE CAPACITY TO INSTALL A 40-AMPERE MINIMUM DEDICATED BRANCH CIRCUIT AND SPACE(S) RESERVED TO PERMIT INSTALLATION OF A BRANCH CIRCUIT OVERCURRENT PROTECTIVE DEVICE. THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

THE SERVICE PANEL OR SUB-PANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVER CURRENT PROTECTIVE DEVICE SPACE(S) RESERVED FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION LOCATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE".

5. ALL NONCOMPLIANT PLUMBING FIXTURES SHALL BE REPLACED WITH WATER-CONSERVING PLUMBING FIXTURES. PLUMBING FIXTURE REPLACEMENT IS REQUIRED PRIOR TO ISSUANCE OF A CERTIFICATE OF FINAL COMPLETION, CERTIFICATE OF OCCUPANCY, OR FINAL PERMIT APPROVAL BY BUILDING AND INSPECTION DIVISION. SEE CIVIL CODE SECTION 1101.1, ET SEQ., FOR THE DEFINITION OF A NONCOMPLIANT PLUMBING FIXTURE, TYPES OF RESIDENTIAL BUILDINGS AFFECTED AND OTHER IMPORTANT ENACTMENT DATES.

- A. THE EFFECTIVE FLUSH VOLUME OF ALL WATER CLOSETS SHALL NOT EXCEED 1.28 GALLONS PER FLUSH. TANK-TYPE WATER CLOSETS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR TANK-TYPE TOILETS.
- B. SHOWERHEADS SHALL HAVE A MAXIMUM FLOW RATE OF NOT MORE THAN 1.8 GALLONS PER MINUTE AT 80 PSI. SHOWERHEADS SHALL BE CERTIFIED TO THE PERFORMANCE CRITERIA OF THE U.S. EPA WATERSENSE SPECIFICATION FOR SHOWERHEADS.
- C. WHEN A SHOWER IS SERVED BY MORE THAN ONE SHOWERHEAD, THE COMBINED FLOW RATE OF ALL SHOWER-HEADS AND/OR OTHER SHOWER OUTLETS CONTROLLED BY A SINGLE VALVE SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 80 PSI, OR THE SHOWER SHALL BE DESIGNED TO ALLOW ONLY ONE SHOWER OUTLET TO BE IN OPERATION AT A TIME. A HAND-HELD SHOWER SHALL BE CONSIDERED A SHOWERHEAD.
- D. THE MAXIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT EXCEED 1.2 GALLONS PER MINUTE AT 60 PSI. THE MINIMUM FLOW RATE OF RESIDENTIAL LAVATORY FAUCETS SHALL NOT BE LESS THAN 0.8 GALLONS PER MINUTE AT 20 PSI.
- E. THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.8 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.8 GALLONS PER MINUTE AT 60 PSI.

6. PLUMBING FIXTURES AND FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, AND SHALL MEET THE APPLICABLE STANDARDS REFERENCED IN TABLE 1701.1 OF THE CALIFORNIA PLUMBING CODE.

 RESIDENTIAL DEVELOPMENTS SHALL COMPLY WITH A LOCAL WATER EFFICIENT LANDSCAPE ORDINANCE OR THE CURRENT CALIFORNIA DEPARTMENT OF WATER RESOURCES' MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO), WHICHEVER IS MORE STRINGENT.

**8.** NEWLY CONSTRUCTED RESIDENTIAL DEVELOPMENTS, WHERE DISINFECTED TERTIARY RECYCLED WATER IS AVAILABLE FROM A MUNICIPAL SOURCE TO A CONSTRUCTION SITE, MAY BE REQUIRED TO HAVE RECYCLED WATER SUPPLY SYSTEMS INSTALLED, ALLOWING THE USE OF RECYCLED WATER FOR RESIDENTIAL LANDSCAPE IRRIGATION SYSTEMS. SEE CHAPTER 15 OF THE CALIFORNIA PLUMBING CODE.

9. ANNULAR SPACES AROUND PIPES, ELECTRIC CABLES, CONDUITS OR OTHER OPENINGS IN SOLE/BOTTOM PLATES AT EXTERIOR WALLS SHALL BE PROTECTED AGAINST THE PASSAGE OF RODENTS BY CLOSING SUCH OPENINGS WITH CEMENT MORTAR, CONCRETE MASONRY OR A SIMILAR METHOD ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

**10.** RECYCLE AND/OR SALVAGE FOR REUSE A MINIMUM OF 65 PERCENT OF THE NONHAZARDOUS CONSTRUCTION AND DEMOLITION WASTE IN ACCORDANCE WITH CALGREEN SECTION 4.408.2 OR 4.408.3.

- CLARA.
- SALVAGE FOR FUTURE USE OR SALE.
- WASTE MATERIAL WILL BE TAKEN.
- CONSTRUCTION AND DEMOLITION WASTE GENERATED.
- shall be calculated by weight or volume, but not by both.
- OF SANTA CLARA. SEE CALGREEN 4.408.3 FOR FURTHER .DETAILS

**11.** DOCUMENTATION SHALL BE PROVIDED TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATES COMPLIANCE WITH NOTE 10.

**12.** AT THE TIME OF FINAL INSPECTION, A MANUAL, COMPACT DISC, WEB-BASED REFERENCE OR OTHER MEDIA ACCEPTABLE TO THE COUNTY OF SANTA CLARA INCLUDES ALL OF THE REQUIRED INFORMATION, SHALL BE PLACED IN THE BUILDING. SEE CALGREEN 4.410.1 FOR DETAILS OF REQUIRED INFORMATION.

**13.** ANY INSTALLED GAS FIREPLACE SHALL BE A DIRECT-VENT SEALED-COMBUSTION TYPE. ANY INSTALLED WOODSTOVE OR PELLET STOVE SHALL COMPLY WITH U.S. EPA NEW SOURCE PERFORMANCE STANDARDS (NSPS) EMISSION LIMITS AS APPLICABLE, AND SHALL HAVE A PERMANENT LABEL INDICATING THEY ARE CERTIFIED TO MEET THE EMISSION LIMITS. WOODSTOVES, PELLET STOVES AND FIREPLACES SHALL ALSO COMPLY WITH APPLICABLE SANTA CLARA COUNTY ORDINANCES AND BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGULATION 6, RULE 3.

**14.** AT THE TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE AND UNTIL FINAL STARTUP OF THE HEATING, COOLING AND VENTILATING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA TO REDUCE THE AMOUNT OF WATER, DUST AND DEBRIS, WHICH MAY ENTER THE SYSTEM.

**15.** ADHESIVES, SEALANTS AND CAULKS USED ON THE PROJECT SHALL MEET THE REQUIREMENTS OF CALGREEN TABLES 4.504.1 OR 4.504.2 AS REPRODUCED ON SHEET CG-1. SUCH PRODUCTS ALSO SHALL COMPLY WITH THE RULE 1168 PROHIBITION ON THE USE OF CERTAIN TOXIC COMPOUNDS (CHLOROFORM, ETHYLENE DICHLORIDE, METHYLENE CHLORIDE, PERCHLOROETHYLENE AND TRICHLOROETHYLENE), EXCEPT FOR AEROSOL PRODUCTS, AS SPECIFIED BELOW.

AEROSOL ADHESIVES, AND SMALLER UNIT SIZES OF ADHESIVES, AND SEALANT OR CAULKING COMPOUNDS (IN UNITS OF PRODUCT, LESS PACKAGING, WHICH DO NOT WEIGH MORE THAN 1 POUND AND DO NOT CONSIST OF MORE THAN 16 FLUID OUNCES) SHALL COMPLY WITH STATEWIDE VOC STANDARDS AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS, OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94507.

16. ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS AS SHOWN IN TABLE 4.504.3 SHEET CG-1. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4.504.3 SHALL BE DETERMINED BY CLASSIFYING THE COATING AS A FLAT, NONFLAT OR NONFLAT-HIGH GLOSS COATING, BASED ON ITS GLOSS, AS DEFINED IN SUBSECTIONS 4.21, 4.36, AND 4.37 OF THE 2007 CALIFORNIA AIR RESOURCES BOARD, SUGGESTED CONTROL MEASURE, AND THE CORRESPONDING FLAT, NONFLAT OR NON-FLAT-HIGH GLOSS VOC LIMIT IN TABLE 4.504.3, SHEET CG-1 SHALL APPLY.

17. AEROSOL PAINTS AND COATINGS SHALL MEET THE PRODUCT-WEIGHTED MIR LIMITS FOR ROC IN SECTION 94522(A)(2) AND OTHER REQUIREMENTS, INCLUDING PROHIBITIONS ON USE OF CERTAIN TOXIC COMPOUNDS AND OZONE DEPLETING SUBSTANCES, IN SECTIONS 94522(E)(1) AND (F)(1) OF CALIFORNIA CODE OF REGULATIONS, TITLE 17, COMMENCING WITH SECTION 94520; AND IN AREAS UNDER THE JURISDICTION OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT ADDITIONALLY COMPLY WITH THE PERCENT VOC BY WEIGHT OF PRODUCT LIMITS OF REGULATION 8, RULE 49.

**18.** VERIFICATION OF COMPLIANCE WITH NOTES 15, 16, AND 17 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

**19.** ALL CARPET INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE TESTING AND PRODUCT REQUIREMENTS OF ONE OF THE FOLLOWING:

- A. CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM. 2010 (ALSO KNOWN AS SPECIFICATION 01350.)
- C. NSF/ANSI 140 AT THE GOLD LEVEL.

ALL CARPET CUSHION INSTALLED IN THE BUILDING INTERIOR SHALL MEET THE REQUIREMENTS OF THE CARPET AND RUG INSTITUTE'S GREEN LABEL PROGRAM. ALL CARPET ADHESIVE SHALL MEET THE REQUIREMENTS OF TABLE 4.504.1, SHEET CG-1.

**20.** WHERE RESILIENT FLOORING IS INSTALLED, AT LEAST 80 PERCENT OF FLOOR AREA RECEIVING RESILIENT FLOORING SHALL COMPLY WITH ONE OR MORE OF THE FOLLOWING:

A. A CONSTRUCTION WASTE MANAGEMENT PLAN IS PROVIDED. THE CONSTRUCTION WASTE MANAGEMENT PLAN SHALL BE UPDATED AS NECESSARY AND SHALL BE AVAILABLE DURING CONSTRUCTION FOR EXAMINATION BY THE COUNTY OF SANTA

1. IDENTIFY THE CONSTRUCTION AND DEMOLITION WASTE MATERIALS TO BE DIVERTED FROM DISPOSAL BY RECYCLING, REUSE ON THE PROJECT OR

2. SPECIFY IF CONSTRUCTION AND DEMOLITION WASTE MATERIALS WILL BE SORTED ON-SITE (SOURCE-SEPARATED) OR BULK MIXED (SINGLE STREAM). 3. IDENTIFY DIVERSION FACILITIES WHERE THE CONSTRUCTION AND DEMOLITION

4. IDENTIFY CONSTRUCTION METHODS EMPLOYED TO REDUCE THE AMOUNT OF

5. Specify that the amount of construction and demolition waste materials diverted

B. A WASTE MANAGEMENT COMPANY CAN BE UTILIZED IF APPROVED BY THE COUNTY

B. CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY

D. SCIENTIFIC CERTIFICATIONS SYSTEMS INDOOR ADVANTAGE GOLD.

- A. PRODUCTS COMPLIANT WITH THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350), CERTIFIED AS A CHPS LOW-EMITTING MATERIAL IN THE COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS) HIGH PERFORMANCE PRODUCTS DATABASE.
- B. PRODUCTS CERTIFIED UNDER UL GREENGUARD GOLD (FORMERLY THE GREENGUARD CHILDREN & SCHOOLS PROGRAM)
- C. CERTIFICATION UNDER THE RESILIENT FLOOR COVERING INSTITUTE (RFCI) FLOORSCORE PROGRAM.
- D. MEET THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH, "STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOLATILE ORGANIC CHEMICAL EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS," VERSION 1.1, FEBRUARY 2010 (ALSO KNOWN AS SPECIFICATION 01350).

**21.** HARDWOOD PLYWOOD, PARTICLEBOARD AND MEDIUM DENSITY FIBERBOARD COMPOSITE WOOD PRODUCTS USED ON THE INTERIOR OR EXTERIOR OF THE BUILDING SHALL MEET THE REQUIREMENTS FOR FORMALDEHYDE AS SPECIFIED IN TABLE 4.504.5 SHEET CG-1.

**22.** VERIFICATION OF COMPLIANCE WITH NOTE 21 SHALL BE PROVIDED AT THE REQUEST OF THE COUNTY OF SANTA CLARA.

23. CONCRETE SLAB FOUNDATIONS REQUIRED TO HAVE A VAPOR RETARDER BY CBC, CHAPTER 19 OR CONCRETE SLAB-ON-GROUND FLOORS REQUIRED TO HAVE A VAPOR RETARDER BY CRC CHAPTER 5, SHALL COMPLY WITH FOLLOWING REQUIREMENT:

A CAPILLARY BREAK SHALL BE INSTALLED IN COMPLIANCE WITH AT LEAST ONE OF THE FOLLOWING:

- A. A 4-INCH-THICK BASE OF 1/2 INCH OR LARGER CLEAN AGGREGATE SHALL BE PROVIDED WITH A VAPOR RETARDER IN DIRECT CONTACT WITH CONCRETE AND A CONCRETE MIX DESIGN, WHICH WILL ADDRESS BLEEDING, SHRINKAGE, AND CURLING, SHALL BE USED.
- B. A SLAB DESIGN SPECIFIED BY THE LICENSED DESIGN PROFESSIONAL.

24. BUILDING MATERIALS WITH VISIBLE SIGNS OF WATER DAMAGE SHALL NOT BE INSTALLED. WALL AND FLOOR FRAMING SHALL NOT BE ENCLOSED WHEN THE FRAMING MEMBERS EXCEED 19 PERCENT MOISTURE CONTENT. INSULATION PRODUCTS WHICH ARE VISIBLY WET OR HAVE A HIGH MOISTURE CONTENT SHALL BE REPLACED OR ALLOWED TO DRY PRIOR TO ENCLOSURE IN WALL OR FLOOR CAVITIES. WET-APPLIED INSULATION PRODUCTS SHALL FOLLOW THE MANUFACTURERS' DRYING RECOMMENDATIONS PRIOR TO ENCLOSURE.

**25.** EACH BATHROOM SHALL BE MECHANICALLY VENTILATED AND SHALL COMPLY WITH THE FOLLOWING:

- A. FANS SHALL BE ENERGY STAR COMPLIANT AND BE DUCTED TO TERMINATE OUTSIDE THE BUILDING.
- B. UNLESS FUNCTIONING AS A COMPONENT OF A WHOLE HOUSE VENTILATION SYSTEM, FANS MUST BE CONTROLLED BY A HUMIDITY CONTROL.
- 1. HUMIDITY CONTROLS SHALL BE CAPABLE OF ADJUSTMENT BETWEEN A RELATIVE HUMIDITY RANGE OF  $\leq$  50 PERCENT TO A MAXIMUM OF 80 PERCENT. A HUMIDITY CONTROL MAY UTILIZE MANUAL OR AUTOMATIC MEANS OF ADJUSTMENT.
- 2. A HUMIDITY CONTROL MAY BE A SEPARATE COMPONENT TO THE EXHAUST FAN AND IS NOT REQUIRED TO BE INTEGRAL.

26. HEATING AND AIR-CONDITIONING SYSTEMS SHALL BE SIZED, DESIGNED AND HAVE THEIR EQUIPMENT SELECTED USING THE FOLLOWING METHODS:

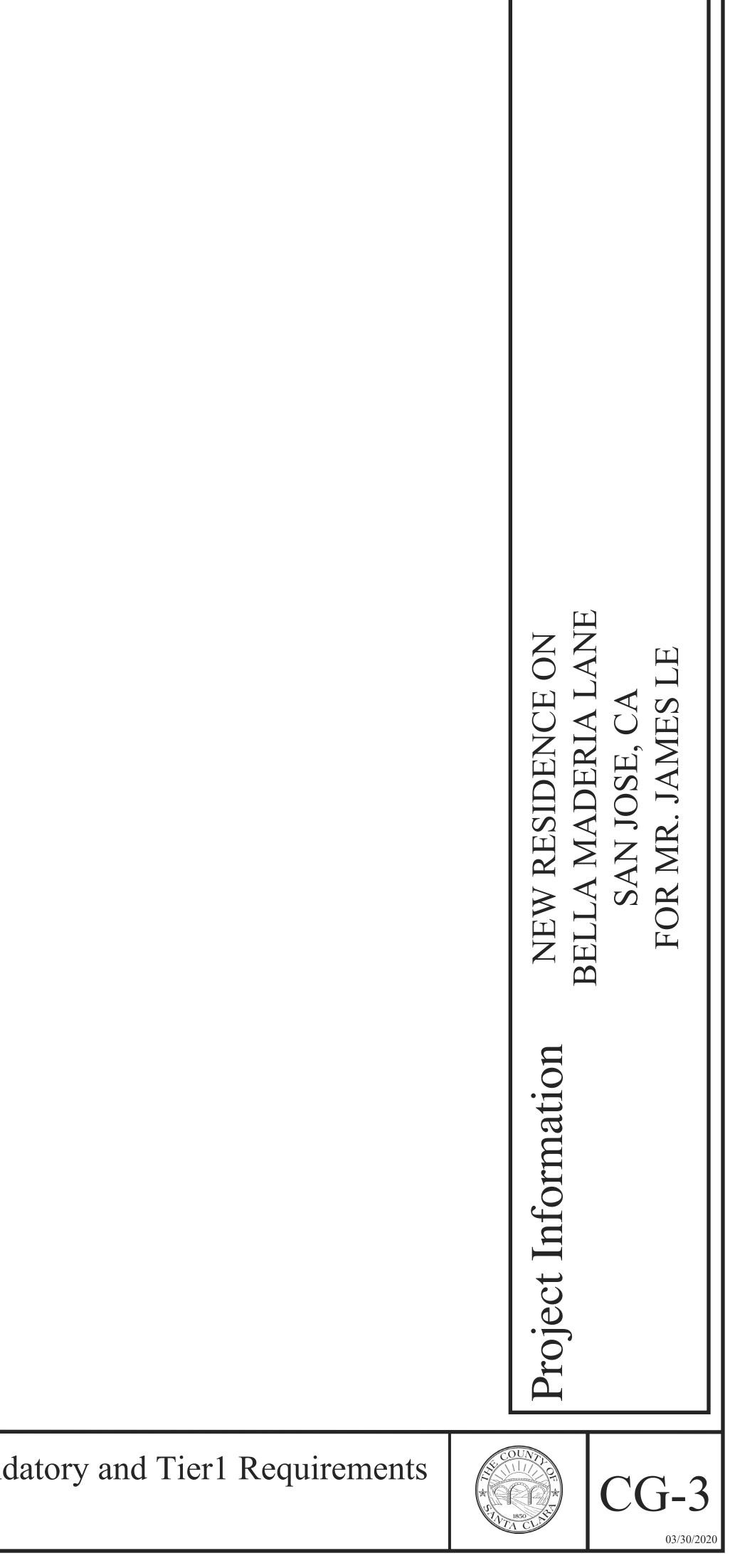
- A. THE HEAT LOSS AND HEAT GAIN IS ESTABLISHED ACCORDING TO ANSI/ACCA 2 MANUAL J-2016 (RESIDENTIAL LOAD CALCULATION), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- B. DUCT SYSTEMS ARE SIZED ACCORDING TO ANSI/ACCA 1 MANUAL D-2016 (RESIDENTIAL DUCT SYSTEMS), ASHRAE HANDBOOKS OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.
- C. SELECT HEATING AND COOLING EQUIPMENT ACCORDING TO ANSI/ACCA 3 MANUAL S-2014 (RESIDENTIAL EQUIPMENT SELECTION) OR OTHER EQUIVALENT DESIGN SOFTWARE OR METHODS.

**27.** HVAC SYSTEM INSTALLERS SHALL BE TRAINED AND CERTIFIED IN THE PROPER INSTALLATION OF HVAC SYSTEMS INCLUDING DUCTS AND EQUIPMENT BY A NATIONALLY OR REGIONALLY RECOGNIZED TRAINING OR CERTIFICATION PROGRAM. UNCERTIFIED PERSONS MAY PERFORM HVAC INSTALLATIONS WHEN UNDER THE DIRECT SUPERVISION AND RESPONSIBILITY OF A PERSON TRAINED AND CERTIFIED TO INSTALL HVAC SYSTEMS OR CONTRACTOR LICENSED TO INSTALL HVAC SYSTEMS.

**28.** IF REQUIRED BY THE COUNTY OF SANTA CLARA, THE OWNER OR THE RESPONSIBLE ENTITY ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PROVIDE INSPECTION OR OTHER DUTIES NECESSARY TO SUBSTANTIATE COMPLIANCE WITH THIS CODE. SPECIAL INSPECTORS SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE COUNTY OF SANTA CLARA FOR THE PARTICULAR TYPE OF INSPECTION OR TASK TO BE PERFORMED. SPECIAL INSPECTORS SHALL BE INDEPENDENT ENTITIES WITH NO FINANCIAL INTEREST IN THE MATERIALS OR THE PROJECT THEY ARE INSPECTING FOR COMPLIANCE WITH THIS CODE.

**29.** DOCUMENTATION USED TO SHOW COMPLIANCE WITH THIS CODE SHALL INCLUDE BUT IS NOT LIMITED TO, CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS, BUILDER OR INSTALLER CERTIFICATION, INSPECTION REPORTS, OR OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA WHICH DEMONSTRATE SUBSTANTIAL CONFORMANCE. WHEN SPECIFIC DOCUMENTATION OR SPECIAL INSPECTION IS NECESSARY TO VERIFY COMPLIANCE, THAT METHOD OF COMPLIANCE WILL BE SPECIFIED IN THE APPROPRIATE SECTION OR IDENTIFIED IN THE APPLICATION CHECKLIST.

CALGreen One or Two Family Residential Project Mandatory and Tier1 Requirements County of Santa Clara



# **CALGREEN 2019 NOTES – TIER 1 REQUIREMENTS:**

**1.** SITE WHICH COMPLIES WITH AT LEAST ONE OF THE FOLLOWING CHARACTERISTICS SHALL BE SELECTED:

- A. AN INFILL SITE.
- B. A GREYFIELD SITE.
- C. AN EPA-RECOGNIZED AND REMEDIATED BROWNFIELD SITE.
- **2.** FACILITATE COMMUNITY CONNECTIVITY BY ONE OF THE FOLLOWING METHODS:
- A. LOCATE PROJECT WITHIN A 1/4 MILE TRUE WALKING DISTANCE OF AT LEAST FOUR BASIC SERVICES, READILY ACCESSIBLE BY PEDESTRIANS.
- B. LOCATE PROJECT WITHIN A ¹/₂ MILE TRUE WALKING DISTANCE OF AT LEAST SEVEN BASIC SERVICES, READILY ACCESSIBLE BY PEDESTRIANS.
- C. OTHER METHODS INCREASING ACCESS TO ADDITIONAL RESOURCES.

EXAMPLES OF SERVICES INCLUDE, BUT ARE NOT LIMITED TO, BANK, PLACE OF WORSHIP, CONVENIENCE GROCERY, DAY CARE, CLEANERS, FIRE STATION, BARBER SHOP, BEAUTY SHOP, HARDWARE STORE, LAUNDRY, LIBRARY, MEDICAL CLINIC, DENTAL CLINIC, SENIOR CARE FACILITY, PARK, PHARMACY, POST OFFICE, RESTAURANT, SCHOOL, SUPERMARKET, THEATER, COMMUNITY CENTER, FITNESS CENTER, MUSEUM OR FARMERS MARKET.

3. INDIVIDUALS WITH OVERSIGHT AUTHORITY ON THE PROJECT WHO HAVE BEEN TRAINED IN AREAS RELATED TO ENVIRONMENTALLY FRIENDLY DEVELOPMENT SHALL TEACH GREEN CONCEPTS TO OTHER MEMBERS OF THE DEVELOPMENT STAFF AND ENSURE THAT TRAINING IS PROVIDED TO ALL PARTIES ASSOCIATED WITH THE DEVELOPMENT OF THE PROJECT.

PRIOR TO BEGINNING THE CONSTRUCTION ACTIVITIES, ALL PARTIES INVOLVED WITH THE DEVELOPMENT PROCESS SHALL RECEIVE A WRITTEN GUIDELINE AND INSTRUCTION SPECIFYING THE GREEN GOALS OF THE PROJECT.

**4.** THE SALVAGED MATERIALS FROM DECONSTRUCTION OF EXISTING BUILDINGS ON THE SITE SHALL BE REUSED. REUSED MATERIALS OR PRODUCTS MUST COMPLY WITH CURRENT BUILDING STANDARDS REQUIREMENTS OR BE AN ACCEPTED ALTERNATE METHOD OR MATERIAL.

MATERIALS WHICH CAN BE EASILY REUSED INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- A. LIGHT FIXTURES.
- B. PLUMBING FIXTURES.
- C. DOORS AND TRIM.
- D. MASONRY
- E. ELECTRICAL DEVICES.
- F. APPLIANCES.
- G. FOUNDATIONS OR PORTIONS OF FOUNDATIONS.

REUSED MATERIAL MUST BE IN COMPLIANCE WITH THE APPROPRIATE TITLE 24 REQUIREMENTS.

**5.** BUILDING SITE SOIL ANALYSIS SHALL BE PERFORMED BY A LICENSED DESIGN PROFESSIONAL AND THE FINDINGS SHALL BE UTILIZED IN THE STRUCTURAL DESIGN OF THE BUILDING.

**6.** THE EFFECT OF DEVELOPMENT ON BUILDING SITES SHALL BE EVALUATED AND THE SOIL SHALL BE PROTECTED BY ONE OR MORE OF THE FOLLOWING:

- A. NATURAL DRAINAGE PATTERNS SHALL BE EVALUATED AND EROSION CONTROLS SHALL BE IMPLEMENTED TO MINIMIZE EROSION DURING CONSTRUCTION AND AFTER OCCUPANCY
- B. SITE ACCESS SHALL BE ACCOMPLISHED BY MINIMIZING THE AMOUNT OF CUT AND FILL NEEDED TO INSTALL ACCESS ROADS AND DRIVEWAYS.
- C. AS ALLOWED BY OTHER PARTS OF THE CALIFORNIA BUILDING STANDARDS CODE, UNDERGROUND CONSTRUCTION ACTIVITIES SHALL BE COORDINATED TO UTILIZE THE SAME TRENCH, MINIMIZE THE AMOUNT OF TIME THE DISTURBED SOIL IS EXPOSED AND THE SOIL SHALL BE REPLACED USING ACCEPTED COMPACTION METHODS.

7. TOPSOIL SHALL BE PROTECTED OR SAVED FOR REUSE. DISPLACED TOPSOIL SHALL BE STOCKPILED FOR REUSE IN A DESIGNATED AREA AND COVERED OR PROTECTED FROM EROSION. PROTECTION FROM EROSION INCLUDES COVERING WITH TARPS, STRAW, MULCH, CHIPPED WOOD, VEGETATIVE COVER, OR OTHER MEANS ACCEPTABLE TO THE COUNTY OF SANTA CLARA TO PROTECT THE TOPSOIL FOR LATER USE.

8. POSTCONSTRUCTION LANDSCAPE DESIGNS SHALL ACCOMPLISH ONE OR MORE OF THE FOLLOWING:

- A. AREAS DISRUPTED DURING CONSTRUCTION SHALL BE RESTORED TO BE
- CONSISTENT WITH NATIVE VEGETATION SPECIES AND PATTERNS.
- B. UTILIZE AT LEAST 75 PERCENT NATIVE CALIFORNIA OR DROUGHT TOLERANT PLANT AND TREE SPECIES APPROPRIATE FOR THE CLIMATE ZONE REGION.

9. PERMEABLE PAVING SHALL BE UTILIZED FOR NOT LESS THAN 20 PERCENT OF THE TOTAL PARKING, WALKING OR PATIO SURFACES

THE PRIMARY DRIVEWAY, PRIMARY ENTRY WALKWAY AND ENTRY PORCH OR LANDING SHALL NOT BE INCLUDED WHEN CALCULATING THE AREA REQUIRED TO BE A PERMEABLE SURFACE.

**10.** INSTALL A VEGETATED ROOF FOR AT LEAST 50 PERCENT OF THE ROOF AREA. VEGETATED ROOFS SHALL COMPLY WITH REQUIREMENTS FOR ROOF GARDENS AND LANDSCAPED ROOFS IN THE CALIFORNIA BUILDING CODE, CHAPTER 15 AND CHAPTER 16.

**11.** REDUCE NONROOF HEAT ISLANDS FOR 50 PERCENT OF SIDEWALKS, PATIOS, DRIVEWAYS OR OTHER PAVED AREAS BY USING ONE OR MORE OF THE METHODS LISTED.

A. TREES OR OTHER PLANTINGS TO PROVIDE SHADE AND THAT MATURE WITHIN 15 YEARS OF PLANTING. TREES SHOULD BE NATIVE OR ADAPTIVE TO THE REGION AND CLIMATE ZONES AND NONINVASIVE; HARDY AND RESISTANT TO DROUGHT, INSECTS AND DISEASE; EASY TO MAINTAIN (NO FREQUENT SHEDDING OF TWIGS, BRANCHES, UNWANTED FRUIT OR SEED PODS); AND SUITABLE IN MATURE SIZE

AND ENVIRONMENTAL REQUIREMENTS FOR THE SITE. TREE SELECTION AND PLACEMENT SHOULD CONSIDER LOCATION AND SIZE OF AREAS TO BE SHADED, LOCATION OF UTILITIES, VIEWS FROM THE STRUCTURE, DISTANCE TO SIDEWALKS AND FOUNDATIONS, OVERHANGS ONTO ADJACENT PROPERTIES AND STREETS; OTHER INFRASTRUCTURE AND ADJACENT TO LANDSCAPING. IN ADDITION, SHADING SHALL NOT CAST A SHADOW, AS SPECIFIED, ON ANY NEIGHBORING SOLAR COLLECTORS PURSUANT TO PUBLIC RESOURCES CODE SECTION 25981, ET SEQ. (SOLAR SHADE CONTROL ACT).

- LEAST 0.30 AS DETERMINED IN ACCORDANCE ASTM E1918 OR C1549. C. USE OPEN GRID PAVEMENT SYSTEM OR PERVIOUS OR PERMEABLE PAVEMENT
- SYSTEM.
- E. OTHER METHODS OF REDUCING HEAT ISLAND EFFECTS ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

12. FOR EACH DWELLING UNIT, INSTALL A DEDICATED 208/240-VOLT BRANCH CIRCUIT IN THE RACEWAY REQUIRED BY CALGREEN SECTION 4.106.4.1 (SEE SHEET GB-2 NOTE 4). THE BRANCH CIRCUIT AND ASSOCIATED OVERCURRENT PROTECTIVE DEVICE SHALL BE RATED AT 40 AMPERES MINIMUM. OTHER ELECTRICAL COM-PONENTS, INCLUDING A RECEPTACLE OR BLANK COVER, RELATED TO THIS SECTION SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE.

THE SERVICE PANEL OR SUB-PANEL CIRCUIT DIRECTORY SHALL IDENTIFY THE OVERCURRENT PROTECTIVE DEVICE DESIGNATED FOR FUTURE EV CHARGING PURPOSES AS "EV READY" IN ACCORDANCE WITH THE CALIFORNIA ELECTRICAL CODE. THE RECEPTACLE OR BLANK COVER SHALL BE IDENTIFIED AS "EV READY."

**13.** OUTDOOR LIGHTING SYSTEMS SHALL BE DESIGNED AND INSTALLED TO COMPLY WITH THE FOLLOWING:

- CODE; AND
- AND
- A4.106.10

**EXCEPTIONS:** 

- 2. EMERGENCY LIGHTING.
- 3. ONE- AND TWO-FAMILY DWELLINGS.

**14.** THE MAXIMUM FLOW RATE OF KITCHEN FAUCETS SHALL NOT EXCEED 1.5 GALLONS PER MINUTE AT 60 PSI. KITCHEN FAUCETS MAY TEMPORARILY INCREASE THE FLOW ABOVE THE MAXIMUM RATE, BUT NOT TO EXCEED 2.2 GALLONS PER MINUTE AT 60 PSI, AND MUST DEFAULT TO A MAXIMUM FLOW RATE OF 1.5 GAL-LONS PER MINUTE AT 60 PSI. WHERE COMPLYING FAUCETS ARE UNAVAILABLE, AERATORS OR OTHER MEANS MAY BE USED TO ACHIEVE REDUCTION.

**15.** ALTERNATE NONPOTABLE WATER SOURCES SHALL BE USED FOR INDOOR POTABLE WATER REDUCTION. ALTERNATE NONPOTABLE WATER SOURCES SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING Code.

**16.** INSTALL AT LEAST ONE QUALIFIED ENERGY STAR DISHWASHER OR CLOTHES WASHER.

**17.** NONWATER URINALS OR COMPOSTING TOILETS SHALL BE INSTALLED. WHERE APPROVED, HYBRID URINALS, AS DEFINED IN CALGREEN CHAPTER 2, SHALL BE CONSIDERED NONWATER URINALS.

**18.** ONE- AND TWO-FAMILY DWELLINGS SHALL BE EQUIPPED WITH A DEMAND HOT WATER RECIRCULATION SYSTEM, AS DEFINED IN CALGREEN CHAPTER 2. THE DEMAND HOT WATER RECIRCULATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE, CALIFORNIA ENERGY CODE, AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

**19.** AN APPROVED RAINWATER CATCHMENT SYSTEM SHALL BE DESIGNED AND INSTALLED TO USE RAINWATER GENERATED BY AT LEAST 65 PERCENT OF THE AVAILABLE ROOF AREA. RAINWATER CATCHMENT SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

**20.** WHEN LANDSCAPING IS PROVIDED AND AS ALLOWED BY LOCAL ORDINANCE, A WATER EFFICIENT LANDSCAPE IRRIGATION DESIGN THAT ELIMINATES THE USE OF POTABLE WATER BEYOND THE INITIAL REQUIREMENTS FOR PLANT INSTALLATION AND ESTABLISHMENT SHALL BE PROVIDED. METHODS USED TO ACCOM-PLISH THE REQUIREMENTS OF THIS SECTION SHALL COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA BUILDING STANDARDS CODE AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:

- A. USE OF CAPTURED RAINWATER.
- B. USE OF RECYCLED WATER.
- DISTRICT OR PUBLIC ENTITY.
- D. USE OF GRAYWATER.
- E. USE OF DROUGHT TOLERANT PLANTS.

**21.** FOR NEW WATER SERVICE CONNECTIONS, LANDSCAPED IRRIGATED AREAS LESS THAN 5,000 SQUARE FEET SHALL BE PROVIDED WITH SEPARATE SUBMETERS OR METERING DEVICES FOR OUTDOOR POTABLE WATER USE.

**22.** ALTERNATIVE PLUMBING PIPING SHALL BE INSTALLED TO PERMIT THE DISCHARGE FROM THE CLOTHES WASHER OR OTHER FIXTURES TO BE USED FOR AN IRRIGATION SYSTEM IN COMPLIANCE WITH THE CALIFORNIA PLUMBING CODE.

23. BASED ON PROJECTED AVAILABILITY, DUAL WATER PIPING SHALL BE INSTALLED FOR FUTURE USE OF RECYCLED WATER AT THE FOLLOWING LOCATIONS:

B. USE HIGH ALBEDO MATERIALS WITH AN INITIAL SOLAR REFLECTANCE VALUE OF AT

D. LOCATE 50 PERCENT OF PARKING UNDERGROUND OR USE MULTILEVEL PARKING.

A. THE MINIMUM REQUIREMENTS IN THE CALIFORNIA ENERGY CODE FOR LIGHTING ZONES 1-4 AS DEFINED IN CHAPTER 10 OF THE CALIFORNIA ADMINISTRATIVE

B. BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS AS DEFINED IN IES TM-15-11;

C. ALLOWABLE BUG RATINGS NOT EXCEEDING THOSE SHOWN IN CALGREEN TABLE

1. LUMINAIRES THAT QUALIFY AS EXCEPTIONS IN THE CALIFORNIA ENERGY CODE.

C. WATER TREATED FOR IRRIGATION PURPOSES AND CONVEYED BY A WATER

- A. INTERIOR PIPING FOR THE USE OF RECYCLED WATER SHALL BE INSTALLED TO SERVE ALL WATER CLOSETS, URINALS AND FLOOR DRAINS.
- B. EXTERIOR PIPING IS INSTALLED TO TRANSPORT RECYCLED WATER FROM THE POINT OF CONNECTION TO THE STRUCTURE. RECYCLED WATER SYSTEMS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH THE CALIFORNIA PLUMBING CODE.

**24.** RECYCLED WATER SHALL BE USED FOR LANDSCAPE IRRIGATION.

**25.** AS ALLOWED BY LOCAL CONDITIONS, UTILIZE A FROST-PROTECTED SHALLOW FOUNDATION (FPSF) IN COMPLIANCE WITH THE CALIFORNIA RESIDENTIAL CODE (CRC). WHEN AN FPSF FOUNDATION SYSTEM IS INSTALLED, THE MANUAL REQUIRED BY CALGREEN SECTION 4.410.1 SHALL INCLUDE INSTRUCTIONS TO THE OWNER OR OCCUPANT REGARDING THE NECESSITY FOR HEATING THE STRUCTURE AS REQUIRED IN SECTION R403.3 OF THE CALIFORNIA RESIDENTIAL CODE.

**26.** AS ALLOWED BY THE COUNTY OF SANTA CLARA, CEMENT USED IN FOUNDATION MIX DESIGN SHALL BE REDUCED NOT LESS THAN 20 PERCENT. RODUCTS COMMONLY USED TO REPLACE CEMENT IN CONCRETE MIX DESIGNS INCLUDE, BUT ARE NOT LIMITED TO:

- A. FLY ASH.
- B. SLAG.
- C. SILICA FUME D. RICE HULL ASH.

27. BEAMS, HEADERS AND TRIMMERS SHALL BE SIZED AND INSTALLED AS SPECIFIED IN CHAPTER 23 OF THE CALIFORNIA BUILDING CODE, OR CHAPTER 6 OF THE CALIFORNIA RESIDENTIAL CODE, AS APPLICABLE. OTHER CALCULATIONS ACCEPTABLE TO THE COUNTY OF SANTA CLARA WHICH USE THE MINIMUM SIZE MEMBER FOR THE TRIBUTARY LOAD IS ACCEPTABLE.

**28.** BUILDING DIMENSIONS AND LAYOUTS SHALL BE DESIGNED TO MINIMIZE WASTE BY ONE OR MORE OF THE FOLLOWING MEASURES IN AT LEAST 80 PERCENT OF THE STRUCTURE:

- A. BUILDING DESIGN DIMENSIONS IN 2-FOOT INCREMENTS ARE USED.
- B. WINDOWS AND DOORS ARE LOCATED AT REGULAR 16" OR 24" STUD POSITIONS. C. OTHER METHODS ACCEPTABLE TO THE COUNTY OF SANTA CLARA.

**29.** PREMANUFACTURED BUILDING SYSTEMS SHALL BE USED TO ELIMINATE SOLID SAWN LUMBER WHENEVER POSSIBLE. ONE OR MORE OF THE FOLLOWING PREMANUFACTURED BUILDING SYSTEMS IS USED:

- A. COMPOSITE FLOOR JOIST OR PREMANUFACTURED FLOOR FRAMING SYSTEM.
- B. COMPOSITE ROOF RAFTERS OR PREMANUFACTURED ROOF FRAMING SYSTEM.
- C. PANELIZED (SIPS, ICF OR SIMILAR) FRAMING SYSTEMS.
- D. OTHER METHODS APPROVED BY THE COUNTY OF SANTA CLARA.

**30.** MATERIAL LISTS SHALL BE INCLUDED IN THE PLANS WHICH SPECIFY THE MATERIAL QUANTITY AND PROVIDE DIRECTION FOR ON-SITE CUTS TO BE MADE FROM THE MATERIAL PROVIDED. MATERIAL LISTS AND DIRECTION SHALL BE PROVIDED FOR THE FOLLOWING SYSTEMS:

- A. FLOOR FRAMING.
- B. WALL FRAMING.
- C. CEILING AND ROOF FRAMING. D. STRUCTURAL PANELS AND ROOF SHEATHING.

**31.** UTILIZE PREFINISHED BUILDING MATERIALS WHICH DO NOT REQUIRE ADDITIONAL PAINTING OR STAINING WHEN POSSIBLE. ONE OR MORE OF THE FOLLOWING BUILDING MATERIALS THAT DO NOT REQUIRE ADDITIONAL RESOURCES FOR FINISHING ARE USED:

- A. EXTERIOR TRIM NOT REQUIRING PAINT OR STAIN.
- B. WINDOWS NOT REQUIRING PAINT OR STAIN.
- C. SIDING OR EXTERIOR WALL COVERINGS WHICH DO NOT REQUIRE PAINT OR STAIN.

**32.** CONCRETE FLOORS THAT DO NOT REQUIRE ADDITIONAL COVERINGS SHALL BE USED INCLUDING BUT NOT LIMITED TO STAINED, NATURAL OR STAMPED CONCRETE FLOORS.

**33.** USE MATERIALS, EQUIVALENT IN PERFORMANCE TO VIRGIN MATERIALS WITH A TOTAL (COMBINED) RECYCLED CONTENT VALUE (RCV) OF NOT BE LESS THAN 10 PERCENT OF THE TOTAL MATERIAL COST OF THE PROJECT.

REQUIRED TOTAL RCV (DOLLARS) = TOTAL MATERIAL COST(DOLLARS) × 10 PERCENT

FOR THE PURPOSES OF THIS SECTION, MATERIALS USED AS COMPONENTS OF THE STRUCTURAL FRAME SHALL NOT BE USED TO CALCULATE RECYCLED CONTENT. THE STRUCTURAL FRAME INCLUDES THE LOAD BEARING STRUCTURAL ELEMENTS, SUCH AS WALL STUDS, PLATES, SILLS, COLUMNS, BEAMS, GIRDERS, JOISTS, RAFTERS AND TRUSSES. SAMPLE FORMS WHICH ALLOW USER INPUT, LOCATED AT SHEET CG-4, MAY BE USED TO SIMPLIFY DOCUMENTING COMPLIANCE WITH THIS SECTION AND FOR CALCULATING RECYCLED CONTENT VALUE OF MATERIALS OR ASSEMBLY PRODUCTS.

SOURCES AND RECYCLED CONTENT OF SOME RECYCLED MATERIALS CAN BE OBTAINED FROM CALRECYCLE IF NOT PROVIDED BY THE MANUFACTURER.

FOR FURTHER INSTRUCTION SEE CALGREEN A4.405.3.

**34.** ONE OR MORE OF THE FOLLOWING MATERIALS MANUFACTURED FROM RAPIDLY RENEWABLE SOURCES OR AGRICULTURAL BY-PRODUCTS SHALL BE USED:

- A. INSULATION.
- B. BAMBOO OR CORK.
- C. ENGINEERED PRODUCTS.
- D. AGRICULTURAL BASED PRODUCTS.
- E. OTHER PRODUCTS ACCEPTABLE TO THE ENFORCING AGENCY.

THE INTENT OF THIS SECTION IS TO UTILIZE BUILDING MATERIALS AND PRODUCTS WHICH ARE TYPICALLY HARVESTED WITHIN A 10-YEAR OR SHORTER CYCLE.

35. INSTALL FOUNDATION AND LANDSCAPE DRAINS WHICH DISCHARGE TO A DRY WELL, SUMP, BIOSWALE OR OTHER APPROVED ON-SITE LOCATION.

**36.** INSTALL GUTTER AND DOWNSPOUT SYSTEMS TO ROUTE WATER AT LEAST 5 FEET AWAY FROM THE FOUNDATION OR CONNECT TO LANDSCAPE DRAINS WHICH DISCHARGE

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