Accessibility Review Comments - JENSEN HUGHES 3/18/2024 - Jasper Kirsch, CASp, Shao Chen, CASp

LIMITATIONS OF DESIGN REVIEW

The information in this drawing review was prepared by JENSEN HUGHES (Consultant) based the drawings provided by the client. The content and accuracy of the drawings is the sole responsibility of the client. Drawing review comments were made as appropriate to the level of detail shown in the drawings. Although this document is not an all-inclusive list of all applicable or potentially applicable code requirements, references to codes and standards are made to those sections where more detailed requirements are offered or suggested throughout the drawing review.

This drawing review represents a professional opinion prepared by JENSEN HUGHES, based on our understanding that this project is publicly-funded and interpretation of applicable code requirements. The Client acknowledges that American with Disabilities Act (ADA), and state codes, including the 2022 California Building Code (CBC) Chapter 11B Accessibility to Public Buildings; as well as local regulation, as applicable to this project, will be subject to various and possibly contradictory interpretations. Consultant will endeavor to use reasonable professional efforts to interpret applicable accessibility requirements as they may apply to Consultant's services. Consultant cannot and does not promise, warrant or guarantee that the Owner's project will comply with all interpretations of those accessibility requirements and/or similar requirements of other federal, state and local laws, rules, codes, ordinances and regulations as they may be interpreted by others, and/or apply to the project currently or in the future.

ACCESSIBILITY IODIFICATIONS

Exhibit A

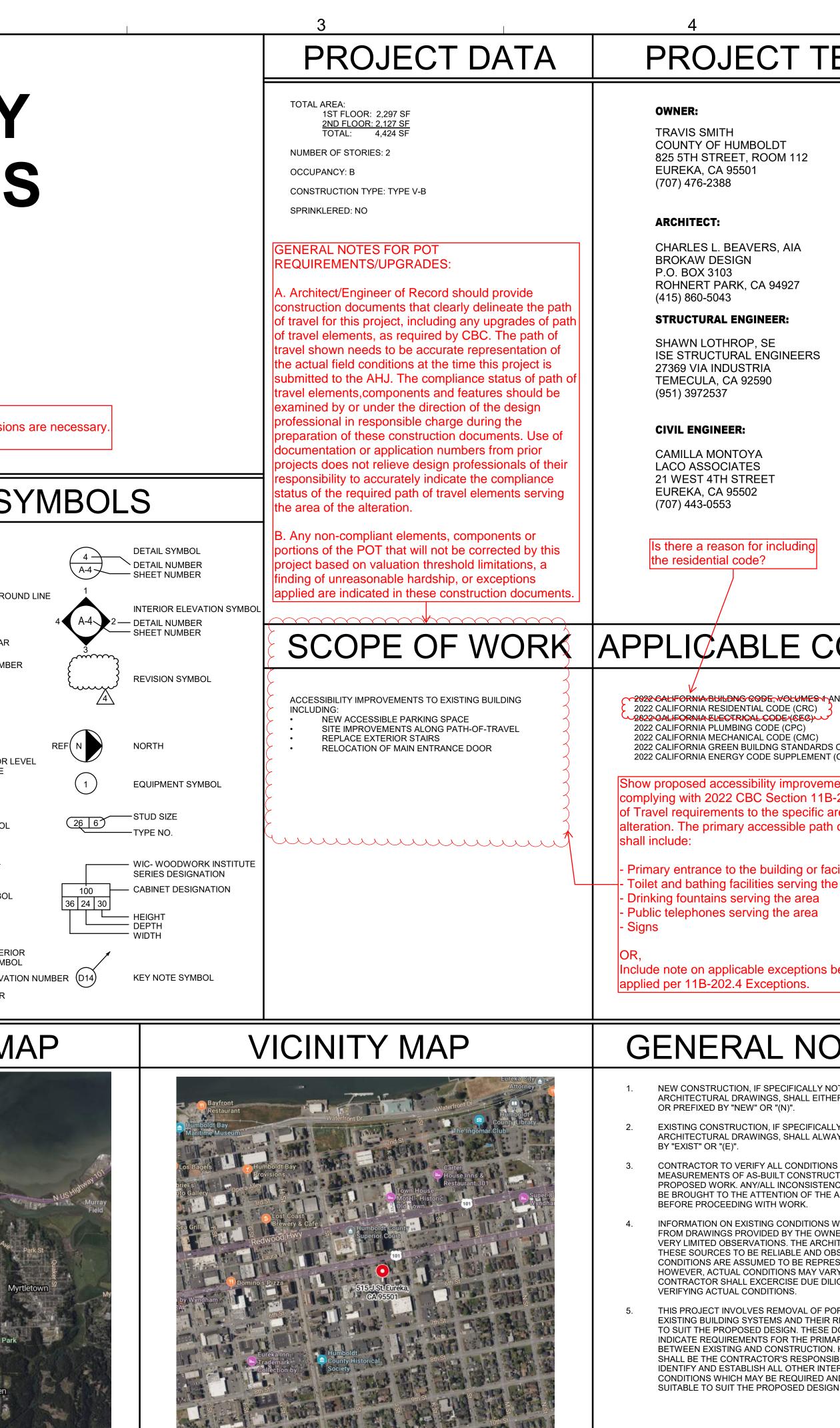
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515 J STREET EUREKA, CA 95501

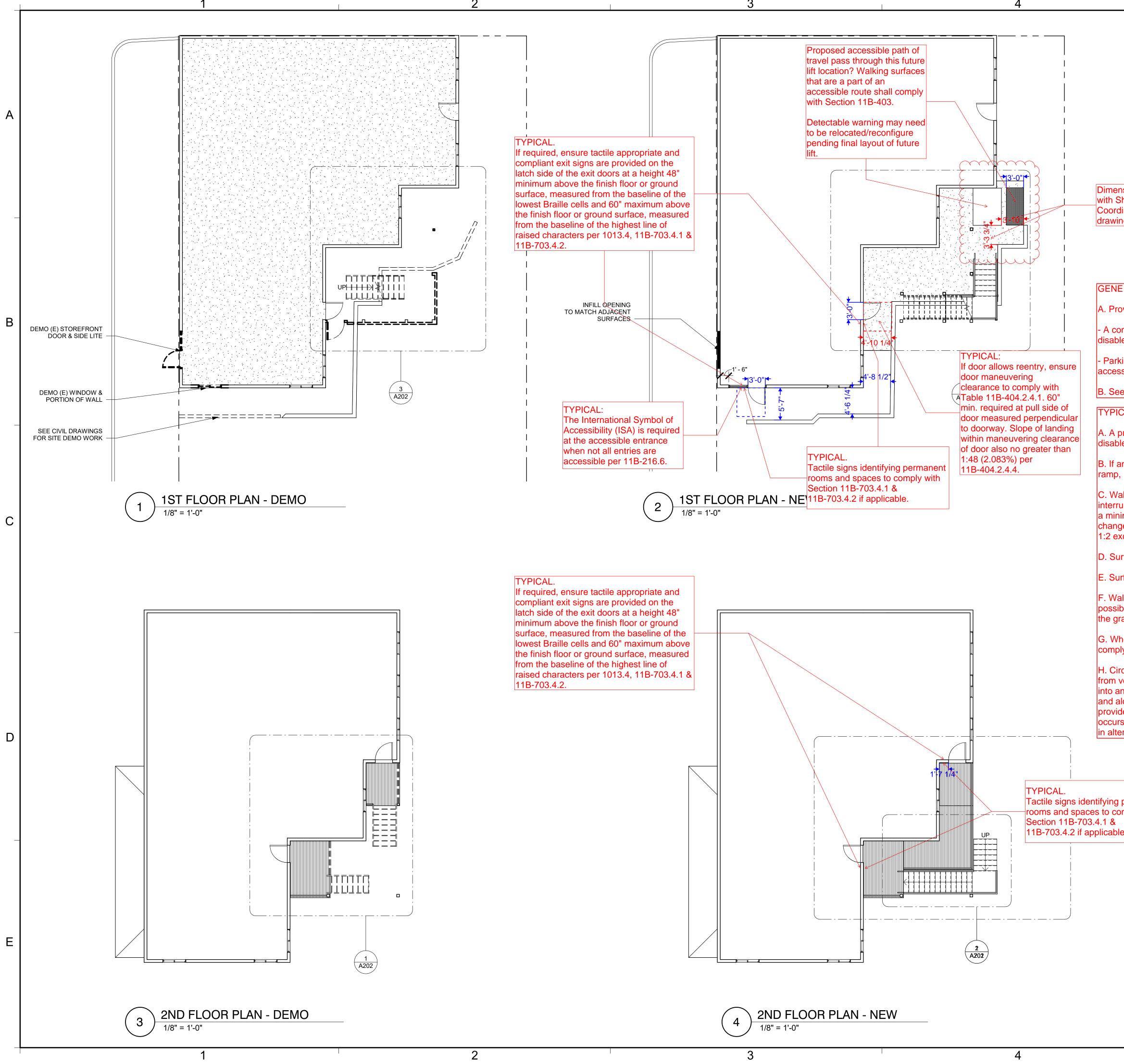
Note:

Red dimensions indicate non-compliance with applicable codes and revisions are necessary Blue dimensions indicate compliance has been verified on the drawing.

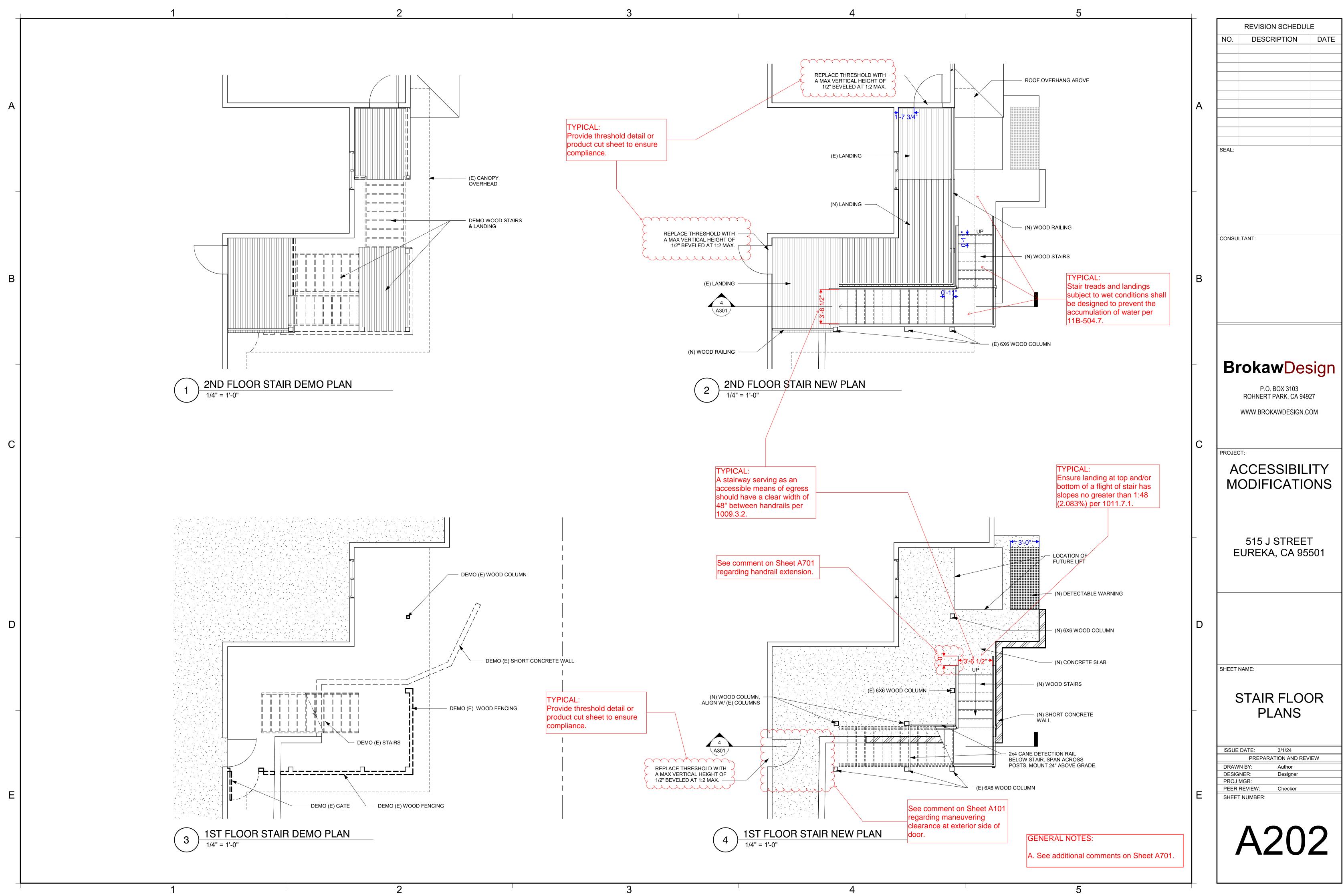
project currently of in the future.			
These drawings were specifically reviewed Chapter 11B and 2010 ADAS.	BREVIATION	IS	SYN
This document was prepared exclusively frinformation contained herein, including, but text, graphs, charts, graphics, and photogr confidential, and shall not be copied or ele reproduced in any form, or the information be distributed without the explicit consent of HUGHES and the client. JENSEN HUGHES disclaims all obligation party/ies with respect to any opinions and herein. No third party may rely upon this di advance and express written consent from and the client. In this event, any third party the limitations, qualifications, terms, condit indemnities to JENSEN HUGHES set forth for Services. All materials presented in the document are, to the knowledge of JENSE reasonable based on the qualifications, lim assumptions identified above.	t not limited to all BOARD aphs is private and SMATERIALS cronically ABATEMENT contained herein, NTLL of both JENSEN IT HDR. HEADER NAL SYMBOL ocument without CES will be bound by ions, and LAMINATE INYL TILE in the Agreement preceding MAXIMUM NHUGHES ACHINE BOLTS itations, and ETAL MEZ. MEZZANIE MER. MANUFACT IRER MIN. MINIMUM ABLE TYPICAL OF CONTRACT NOTED to occur more oncepts, standards, It is possible that TE hat the design team itimate knowledge.	T.P. TOP OF PAVEMENT TRANSV. TRANSVERSE TR. TREATED TYP. TYPICAL U.O.N. UNLESS OTHERWISE NOTED VERT. VERTICAL VG. VERTICAL GRAIN W. WIDE WASH. WASHER W/ WITH WC WATER CLOSET WD. WOOD W/O WITHOUT WP. WATERPROOF WPF. WEATHERPROOF X CROSS	& AND @ AT Ç CENTER LINE Ø DIAMETER OR ROUND LIN (E) EXISTING ⊥ PERPENDICULAR # POUND OR NUMBER ₽ PLATE (N) NEW WP WORK POINT ↓ NOMINAL FLOOR LEVEL OR MATCH LINE ④ COLUMN GRID ↓ LOUVER SYMBOL ↓ DOOR SYMBOL ↓ GATE SYMBOL ↓ SECTION / EXTERIOR ELEVATION SYMBOL ↓ SECTION / EXTERIOR ELEVATION NUMBER ↓ SHEET NUMBER
E A. EACH EA. EACH E.F. EACH FACE E.J. EXPANSION JOINT ELEV. ELEVATION ELEC. ELECTRICAL EMT ELEC. METALLIC TUBING E.N. EDGE NAIL E.Q. EQUAL EOPT. EQUIPMENT E.S. EACH WAY EXIST. EXISTING EXP. EXPANSION EXT. EXTERIOR FDN. FOUNDATION FHWS FLAT HEAD WOOD SCREW FIN. FINISH FIN. FL. FINISH FLOOR F.J. FLOOR JOIST FL. FLOOR FLUOR. FLUORESCENT F.N. FIELD NAIL F.O.C. FACE OF FINISH F.O.C. FACE OF FINISH F.O.S. FACE OF FINISH F.O.S. FACE OF FINISH F.O.S. FACE OF STUD FRMG. FRAMING FT. FOOT/FEET GA. GAUGE GAL GALLON GALV. GALVANIZED SHEET STELL GLB GLUE LAMINATED BEAM GRD. GRADE GSA GENERAL SERVICES ADMINISTRATION	PT.POINTR.RISERRAD.RADIUSREINF.REINFORCEMENTREQD.REQUIREDRES.RESILIENTR.O.ROUGH OPENINGR.S.ROUGH SAWNRDWD.REDWOODRO.ROUGHR.W.L.RAIN WATER LEADERSASUSPENDED ACOUSTICALSCDSEE CIVIL DRAWINGSSHT.SHEETS.H.SINGLE HUNGSIM.SIMILARSLDR.SLIDERSMDSEE MECHANICAL DRAWINGSS.O.G.SLAB ON GRADESPEC(S)SPECIFICATION(S)SQ.SQUARES.S.STAINLESS STELLS.S.DSEE STRUCTURAL DRAWINGSS.S.P.STANDARD STEEL PIPESTRUC.STRUCTURALSYM.SYMMETRICALT.TREADT.&B.TOP AND BOTTOMT.&G.TONGUE AND GROOVET.C.TOP OF CURBTEL.TELEPHONETERRTERRAZZOT.O.C.TOP OF PLATE LINET.O.S.TOP OF SUBFLOORT.O.W.TOP OF SUBFLOORT.O.W.TOP OF WALL	Samoa	3AU

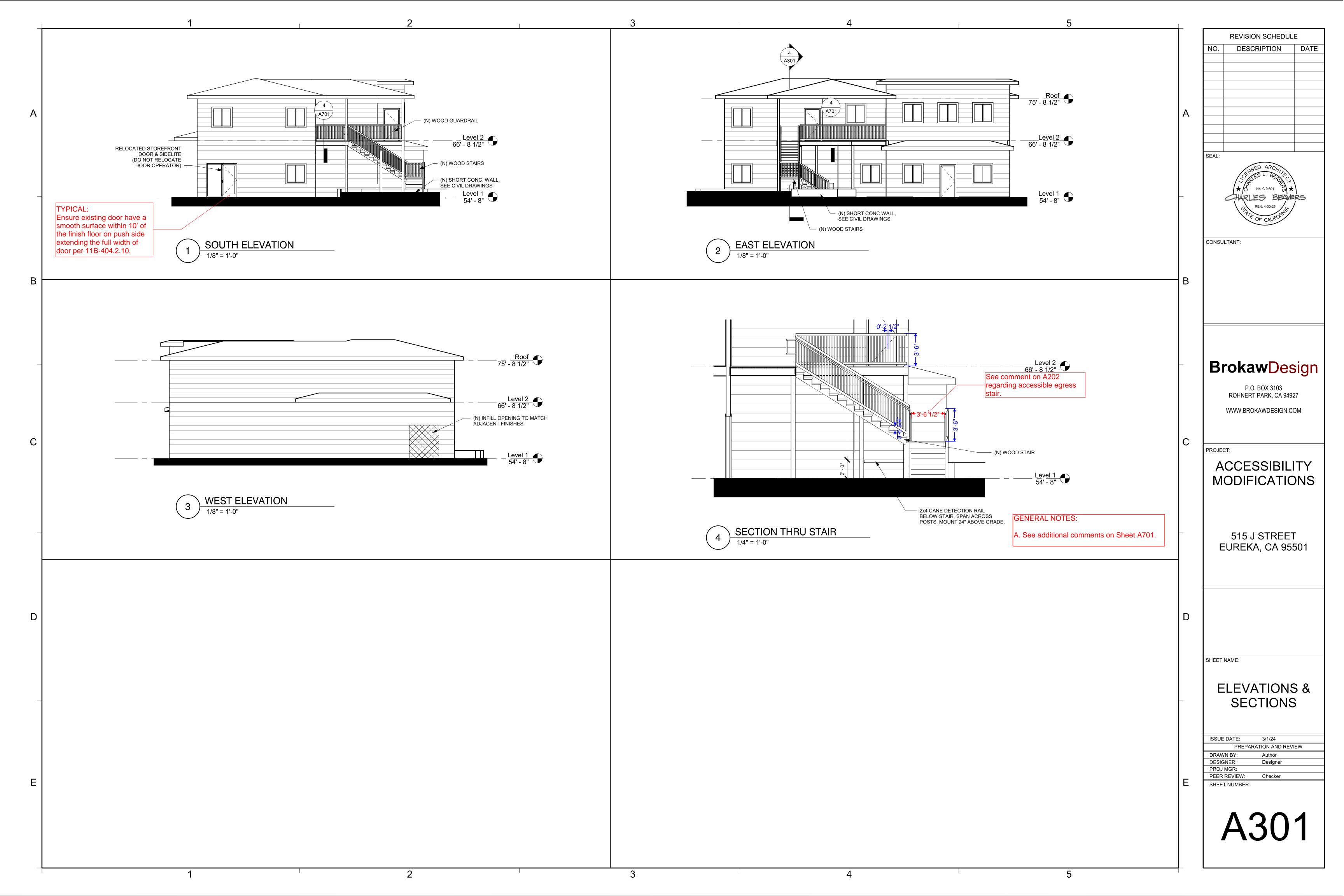


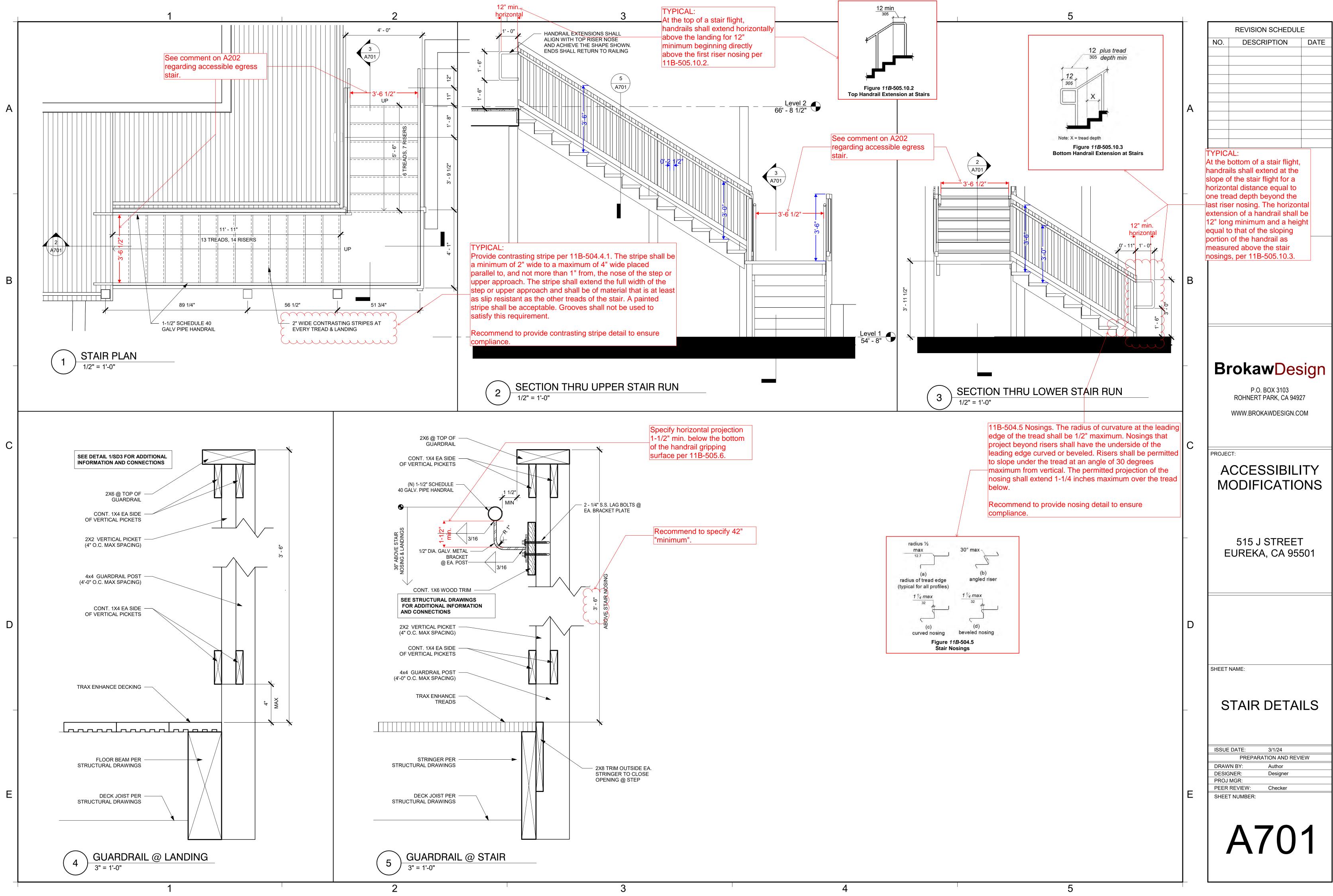
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EAM	DRAWING INDEX	-	REVISION SCHEDULE NO. DESCRIPTION DATE
	A001 COVERSHEET A101 FLOOR PLANS		
	A202STAIR FLOOR PLANSA301ELEVATIONS & SECTIONSA701STAIR DETAILS		
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	C0.00COVER SHEETC0.10STANDARD NOTESC1.00EXISTING CONDITIONS AND DEMOLITION PLANC2.00SITE PLAN		SEAL:
	C3.00 GRADING PLAN C4.00 DETAIL SHEET		CENSED ARCHIA
	GENERAL DESIGN AND DRAWING GUIDANCE		HARLES BEAKERS
	score and interior elevations may be needed to convey score and interior elevations.)	(CONSULTANT:
	SD CLEAR FLOOR SPACES AND CLEARANCES: We recommend that required accessible clear floor spaces and clearances be indicated on the drawings in order to confirm compliance and also to identify the items selected or required to be accessible, at items such as but not limited to: doors on accessible routes, wheelchair accessible drinking fountains, sinks, lavatories, water closets, urinals, bathtubs, showers, kitchens or kitchenettes, appliances, drinking fountains, and accessible work surfaces or dining surfaces. Doing so will help reviewers as well as the design team to	B	
ODES	confirm compliance with accessibility criteria. Clear floor spaces and other clearances including door		BrokawDesign
	 floor level, to the face of adjacent baseboard, tile, or other finish materials. EXCEPTION: Toilet locations from adjacent fixtures or walls are measured from toilet centerline to face of finish at grab bar height. 		P.O. BOX 3103 ROHNERT PARK, CA 94927 WWW.BROKAWDESIGN.COM
CODE (CGBSC) (CEnC) ents -202.4 Path rea of of travel	TURNING SPACE: We recommend that turning space be indicated on the drawings in all areas where it is required, as well as in areas where turning space may be necessary to facilitate maneuvering or egress. Examples include but are not limited to vestibules, toilet rooms, bathing rooms, locker rooms, changing/dressing rooms, and small rooms or confined spaces that may cause entrapment such as long dead end corridors.		ACCESSIBILITY MODIFICATIONS
cility e area	FINISH DIMENSIONS: Required clearances in the accessibility codes and standards are finished, clear dimensions that must be maintained to provide the intended results. The designer must consider the planned finish materials that will be applied over walls or floors including items such as but not limited to paneling tile, trim/casing, and baseboard, to ensure that the required clearances will be provided after all materials are installed.		515 J STREET EUREKA, CA 95501
	MINIMUM AND MAXIMUM DIMENSIONS: In accessibility codes and standards, most dimensions are		
DTES	specified as a minimum, maximum, or a range. When a minimum, maximum, or range is provided, avoid designing to the exact minimum or maximum dimension		
OTED IN THE ER BE UNPREFIXED LY NOTED IN THE	to allow some room for minor deviations in construction or manufacturing. For example, where a dimensional range of 16" minimum to 18" maximum is allowed by code, designing the element at 17" would provide some		SHEET NAME:
AYS BE PREFIXED S AND	code, designing the element at 17" would provide some allowance for deviation during construction or manufacturing and potentially could avoid issues during construction.		
CTION AFFECTING ICIES SHALL ARCHITECT	CONSTRUCTION AND MANUFACTURING TOLERANCES: A tolerance is an unintended, but	_	COVERSHEET
WAS OBTAINED NER AND FROM IITECT ASSUMES BSERVED ESENTATIVE.	permitted (i.e., "tolerated"), variation from a specified dimension resulting from the process of construction or manufacture. In accessibility codes and standards,		ISSUE DATE: 3/1/24 PREPARATION AND REVIEW
RY. THE IGENCE IN DRTIONS OF	dimensions that are not stated as "maximum" or "minimum" or as a range with specific minimum and maximum endpoints are considered absolute dimensions. Typically, accessibility codes and standard		DRAWN BY: Author DESIGNER: Designer PROJ MGR:
RECONSTRUCTION DOCUMENTS ARY INTERFACE I. HOWEVER, IT IBILITY TO ERFACE ND DEEMED MOST IN.	dimensions. Typically, accessibility codes and standard recognize conventional industry construction and manufacturing tolerances for absolute dimensions not expressed as a range. Construction and manufacturing tolerances apply only to field work, not to design work. There is no tolerance allowed for design work.	F	PEER REVIEW: Checker SHEET NUMBER:
	MULTIPLE CODES OR STANDARDS APPLY: When multiple codes or standards apply to a facility, area, or element, all applicable codes or standards must be satisfied. Review and comply with all applicable codes and standards.		A001
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nsions inconsistent		
Sheet C2.00 linate with Civil ng.	_	
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ERAL NOTES:		
ovide an "Architectural site plan" to include:		
	В	
ontinuously accessible path of travel, beginning at the site arrival point and led parking provided to the specific area of alteration.		
king calculation to show total # parking spaces provided, total # of ssible parking required, and total # of accessible parking provided.		
e additional comments on Sheet A202.		
CAL SITE GENERAL NOTES:		
primary building entrance is accessible from the public way and/or led parking provided.	_	BrokawDesign P.O. BOX 3103
an accessible route has a change in level greater than 1/2", then a curb , ramp, elevator, or platform lift shall be provided.		ROHNERT PARK, CA 94927 WWW.BROKAWDESIGN.COM
alks and sidewalks shall have a continuous common surface, not upted by steps or by abrupt changes in level exceeding 1/2" and shall be imum of 48 inches in width and a clear height of 80 inches. When ges in level do occur, they shall be beveled with a slope no greater than	С	PROJECT:
ccept those levels not exceeding 1/4" may be vertical.		
rfaces shall be stable, firm, and slip resistant.		ACCESSIBILITY
rface cross slopes shall not exceed 1:48 (2.083%).		MODIFICATIONS
alks, sidewalks and pedestrian ways shall be free of gratings whenever		
ble. Gratings located in the surface of any of these areas, grid openings in rating shall be limited to 1/2" in the direction of traffic flow.		
hen the slope in the direction of travel of any walk exceeds 5%, it must ly with the provisions for ramps.	_	515 J STREET EUREKA, CA 95501
culation paths contiguous to vehicular traffic shall be physically separated vehicular traffic. Vehicular traffic includes travel through parking facilities,		
nd out of parking spaces, into and out of electric vehicle charging spaces, long roadways, driveways and drive aisles. Physical separation shall be		
ded with circulation paths raised 4" above the area where vehicular traffic s (also see 11B-250.1 exceptions 4 regarding the use detectable warning		
eration to existing parking facility).	D	
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e.		FLOOR PLANS
		ISSUE DATE: 3/1/24
		PREPARATION AND REVIEW DRAWN BY: Author
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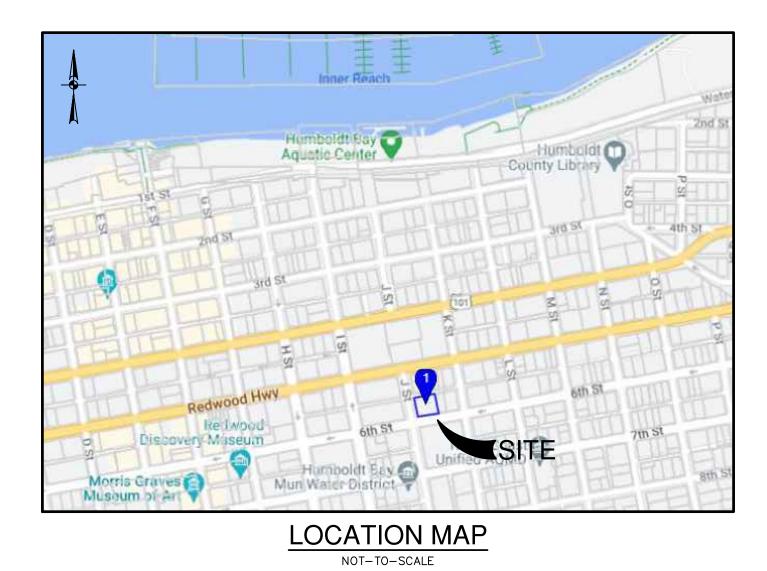






515 J ST ACCESSIBILITY IMPROVEMENTS EUREKA, CALIFORNIA **CIVIL CONSTRUCTION PLANS**

RODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSMITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE® UNLESS OTHERWISE NOTED. Imagery © 2015, CAPCOG, Digital Globe, Texas Orthoimagery Program, USDA Farm Service Age



PREPARED FOR:

BROKAW DESIGN PO BOX 3102 ROHNERT PARK CALIFORNIA, CA 94927

FEBRUARY 2024





SHEET INDEX

Sheet Number	Sheet Title
C0.00	COVER SHEET
C0.10	STANDARD NOTES
C1.00	DEMOLITION PLAN
C2.00	GRADING PLAN
C3.00	SITE PLAN
C4.00	DETAIL SHEET

GENERAL NOTES

- ALL MATERIALS, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE CURRENT CITY OF EUREKA DESIGN AND CONSTRUCTION STANDARDS AND CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL CONSTRUCTION PERMITS REQUIRED BY THE CITY OF EUREKA (SUCH AS ENCROACHMENT, GRADING, BUILDING, DEMOLITION ETC.) PRIOR TO COMMENCEMENT OF WORK.
- AN ENCROACHMENT PERMIT MUST BE OBTAINED FROM THE DEPARTMENT OF PUBLIC WORKS PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY. A TRAFFIC CONTROL PLAN MUST BE SUBMITTED FOR APPROVAL PRIOR TO BEGINNING ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
- 4. THE CONTRACTOR SHALL OBTAIN A DE-WATERING PERMIT FROM THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD FOR DE-WATERING OPERATIONS THAT ARE USED TO MANAGE THE REMOVAL OF GROUND WATER FROM EXCAVATIONS AND THEIR DISCHARGE TO THE WATERS OF THE STATE OR THE STORM DRAIN SYSTEM. APPROVAL MUST BE OBTAINED FROM THE CITY OF EUREKA ENVIRONMENTAL COMPLIANCE DIVISION PRIOR TO DISCHARGING GROUNDWATER TO THE SEWER.
- TEMPORARY STOCKPILES SHALL NOT BE LOCATED WITHIN CREEK SETBACK AREAS, PROTECTED VEGETATION/TREE 5. AREAS OR WITHIN 10 FEET OF AN ADJACENT RESIDENTIAL PROPERTY LINE. STOCKPILES TALLER THAN 2.5 FEET SHALL NOT BE WITHIN 50 FEET OF AN ADJACENT RESIDENTIAL PROPERTY LINE.
- 6. TEMPORARY STOCKPILES MUST BE REMOVED BY COMPLETION OF GRADING ACTIVITIES UNLESS A SEPARATE TEMPORARY USE PERMIT AND GRADING PERMIT IS OBTAINED FOR THE STOCKPILE.
- RAIN WATER LEADERS AND ROOF DRAINS ARE TO BE CONNECTED BY DEVELOPER TO STORM DRAIN SYSTEM OR SPLASH BLOCK. SEE ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND SIZES. NO CONCENTRATED LOT DRAINAGE SHALL FLOW ACROSS SIDEWALKS.
- CONTRACTOR SHALL SECURE A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO EXCAVATION OF ANY TRENCH OVER FIVE FEET IN DEPTH.
- IF CONTAMINATED MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, WORK MUST STOP UNTIL A WORK PLAN HAS BEEN APPROVED IN WRITING BY THE CITY FIRE DEPARTMENT AND THE STATE REGIONAL WATER QUALITY CONTROL BOARD (NCRWQCB). HAZARDOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE REQUIREMENTS OF THE CITY'S FIRE DEPARTMENT. THE APPLICANT IS REQUIRED TO DEMONSTRATE COMPLIANCE WITH STATE AND LOCAL CODES FOR REMOVAL OF ASBESTOS CONTAINING MATERIALS DURING DEMOLITION OF THE STRUCTURES ON THE PROJECT SITE.
- 10. ALL TRENCH SPOILS SHALL BE REMOVED AS THEY ARE GENERATED OR DISPOSED OF ON SITE AS REQUIRED BY THE GRADING PERMIT. EXCESS/UNSUITABLE MATERIAL DISPOSED OF OFFSITE AT AN APPROVED LOCATION BY ENGINEERING DEVELOPMENT SERVICES. CONTAIN AND SECURELY PROTECT STOCKPILED TRENCH BACKFILL AND WASTE MATERIAL FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED. DO NOT BLOCK STORM WATER FLOWS.
- 11. ALL UNDERGROUND IMPROVEMENTS INCLUDING SEWER LINES, WATER LINES, STORM DRAINS, PUBLIC UTILITY FACILITIES, AND SERVICES SHALL BE INSTALLED, TESTED, AND ACCEPTED BY THE UTILITIES AND PUBLIC WORKS DEPARTMENTS PRIOR TO PAVING. TRENCH PAVING FOR ALL UTILITIES SHALL BE COORDINATED AND INSTALLED AT THE SAME TIME.
- 12. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONSTRUCTION CONTRACTOR FURTHER AGREES TO HOLD HARMLESS, INDEMNIFY AND DEFEND THE DESIGN PROFESSIONAL, THE OWNER AND THEIR CONSULTANTS, AND THE CITY OF EUREKA, AND EACH OF THEIR OFFICERS, EMPLOYEES, AND AGENTS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE DESIGN PROFESSIONAL.
- 13. THE LOCATIONS OF UNDERGROUND OBSTRUCTIONS SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY AND SHOULD NOT BE TAKEN AS FINAL OR ALL INCLUSIVE. THE CONTRACTOR IS CAUTIONED THAT THE DRAWINGS MAY NOT INCLUDE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS PRIOR TO ANY TRENCHING TO ALLOW THE ENGINEER TO VERIFY THE GRADE AND ALIGNMENT OF THE UTILITIES, AND VERIFY DESIGN ASSUMPTIONS AND EXACT FIELD LOCATION. EXISTING UTILITIES MAY REQUIRE RELOCATION AND /OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS.
- 14. THE CONTRACTOR SHALL EXPOSE ALL EXISTING UTILITIES INCLUDING SEWERS AND STORM DRAINS PRIOR TO ANY TRENCHING TO ALLOW THE ENGINEER TO VERIFY THE GRADE AND ALIGNMENT OF THE UTILITIES, AND TO VERIFY. DESIGN ASSUMPTIONS AND EXACT FIELD LOCATION. EXISTING UTILITIES MAY REQUIRE RELOCATION AND/OR PROPOSED IMPROVEMENTS MAY REQUIRE GRADE OR ALIGNMENT REVISION DUE TO FIELD CONDITIONS.
- 15. UNDERGROUND FACILITIES NOT SHOWN ON THESE DRAWINGS SUCH AS PG&E, TELEPHONE, TV, IRRIGATION, ETC. SHALL BE COORDINATED AND CONSTRUCTED PRIOR TO PLACEMENT OF BASE ROCK AND PAVING.
- 16. CONTRACTOR IS RESPONSIBLE FOR PRESERVATION AND/OR PERPETUATION OF ALL EXISTING SURVEY MONUMENTS (CURB TAGS, IRON PIPES, CENTERLINE WELL DISKS, ETC). IF THE CONTRACTOR SUSPECTS THAT WORK WILL BE CONDUCTED IN AN AREA WHICH MAY RESULT IN THE DISTURBANCE OF SURVEY MONUMENTS, THE CONTRACTOR SHALL RETAIN THE SERVICES OF A LICENSED PROFESSIONAL AUTHORIZED TO PRACTICE LAND SURVEYING TO LOCATE SAID MONUMENTS PRIOR TO DISTURBANCE, RE-ESTABLISH MONUMENTS WHICH HAVE BEEN DISTURBED AS A RESULT OF CONSTRUCTION AND FILE THE APPROPRIATE DOCUMENTATION WITH THE COUNTY ONCE THE MONUMENTS ARE RESET. CONTRACTOR SHALL PROVIDE A MINIMUM OF 10 (TEN) WORKING DAYS NOTICE TO THE ENGINEER/SURVEYOR PRIOR TO DISTURBANCE OR REMOVAL OF EXISTING MONUMENTS. CONTRACTOR SHALL PROVIDE THE CITY WITH A MONUMENT CERTIFICATION LETTER FROM THE ENGINEER/SURVEYOR STATING THAT THE EXISTING MONUMENTS HAVE BEEN IDENTIFIED AND LOCATED PRIOR TO REMOVAL.
- 17. CONSTRUCTION HOURS SHALL BE LIMITED FROM 7 AM TO 7 PM MONDAY THROUGH SATURDAY, EXCLUDING HOLIDAYS. THIS RESTRICTION INCLUDES THE START UP OF ANY MOTORIZED EQUIPMENT. ALL CONTRACTORS' EQUIPMENT SHALL BE PROPERLY MUFFLED AND SHALL BE SHUT DOWN WHEN NOT IN USE. (HOURS ARE SUBJECT TO THE CONDITIONS OF APPROVAL)
- 18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING DAMAGE OR DETERIORATION OCCURRING TO EXISTING PUBLIC IMPROVEMENTS AS A DIRECT RESULT OF CONSTRUCTION ACTIVITY (GRADING, ROAD CONSTRUCTION, UTILITY INSTALLATION, ETC.). REPAIR MAY REQUIRE PATCHING, SEALING OR OVERLAYING AFFECTED AREAS AS APPROPRIATE TO RETURN THE ROADS TO AT LEAST AS GOOD A CONDITION AS THEY WERE PRIOR TO CONSTRUCTION. IF THE CONTRACTOR DOES NOT ACT IN A TIMELY MANNER, THE CITY MAY, AT ITS DISCRETION PERFORM THE CORRECTION AND CHARGE THE CONTRACTOR FOR ALL COSTS AND OVERHEAD INCURRED.
- 19. THE CONTRACTOR SHALL KEEP THE WORK SITE, STAGING AREAS AND OTHER AREAS USED BY IT IN A NEAT AND CLEAN CONDITION, AND FREE FROM ANY ACCUMULATION OF TRASH. THE CONTRACTOR SHALL DISPOSE OF ALL TRASH, RUBBISH AND WASTE MATERIALS OF ANY KIND GENERATED BY THE CONTRACTOR, SUBCONTRACTOR OR ANY COMPANY HIRED BY THE CONTRACTOR ON A DAILY BASIS. THE CONTRACTOR SHALL ALSO KEEP HAUL ROADS FREE FROM DIRT. RUBBISH, AND UNNECESSARY OBSTRUCTIONS RESULTING FROM SITE OPERATION. DISPOSAL OF ALL TRASH. RUBBISH AND DEBRIS MATERIALS SHALL BE IN A COVERED WASTE RECEPTACLE OR HAULED OFF SITE, IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES GOVERNING LOCATIONS AND METHODS OF DISPOSAL, AND IN CONFORMANCE WITH ALL APPLICABLE LAWS AND REGULATIONS. WASTE RECEPTACLES SHALL BE COVERED AT THE END OF EVERY DAY AND DURING RAIN EVENTS.
- 20. ENSURE THE CONTAINMENT OF SANITATION FACILITIES (E.G., PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM, ROADS OR RECEIVING WATERS. SANITATION FACILITIES MUST BE MAINTAINED PERIODICALLY BY A LICENSED SERVICE COMPANY TO KEEP THEM IN GOOD WORKING ORDER AND PREVENT OVERFLOWS. PORTABLE TOILETS ARE REQUIRED TO HAVE SECONDARY CONTAINMENT.
- 21. EQUIPMENT AND MATERIALS NECESSARY FOR CONTROL OF SPILLS SHALL BE AVAILABLE ON SITE AT ALL TIMES. SPILLS AND LEAKS SHALL BE STOPPED AND THE MATERIAL CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY. USE PROPER BEST MANAGEMENT PRACTICES (BMPS) TO PREVENT OIL, GREASE, OR FUEL FROM LEAKING ON THE GROUND, INTO THE STORM DRAINS OR SURFACE WATERS.
- 22. CONTAIN CONCRETE WASHOUT AREAS AND SIMILAR AREAS THAT MAY CONTAIN POLLUTANTS TO PREVENT DISCHARGE INTO THE UNDERLYING SOIL OR ONTO THE SURROUNDING AREAS.
- 23. ESTABLISH AND MAINTAIN EFFECTIVE SITE PERIMETER CONTROLS AND STABILIZE ALL CONSTRUCTION ENTRANCES AND EXITS TO SUFFICIENTLY CONTROL EROSION AND SEDIMENT DISCHARGES AND TRACKED MATERIALS FROM LEAVING THE SITE. AT A MINIMUM DAILY AND PRIOR TO ANY RAIN EVENT. THE CONTRACTOR SHALL REMOVE ANY SEDIMENT OR OTHER CONSTRUCTION ACTIVITY RELATED MATERIALS THAT ARE DEPOSITED ON THE ROADS (BY VACUUMING OR SWEEPING).
- 24. PLACE EQUIPMENT OR VEHICLES, WHICH ARE BEING FUELED, MAINTAINED AND STORED, IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPS.

DCUMENT HAS BEEN PRODUCED FROM MATERIAL THAT WAS STORED AND/OR TRANSWITTED ELECTRONICALLY AND MAY HAVE BEEN INADVERTENTLY ALTERED. RELY ONLY ON FINAL HARDCOPY MATERIALS BEARING THE CONSULTANT'S ORIGINAL SIGNATURE AND SEAL. AERIAL IMAGERY PROVIDED BY GOOGLE® UNLESS OTHERWISE NOTED. Imagery © 2016, CAPCOG, Digital Globe, Texas Orthoimagery Program, USDA Farm Service Agency.

GENERAL NOTES CONT.

25. AT A MINIMUM, ALL BMPS WILL BE INSPECTED EACH WORKING DAY AND BEFORE ALL RAIN EVENTS. BMPS THAT REQUIRE MAINTENANCE OR REPLACEMENT TO FUNCTION PROPERLY SHALL BE COMPLETED BEFORE THE NEXT FORECASTED RAIN, OR WITHIN THE NEXT 3 WORKING DAYS IF NO RAIN IS PREDICTED. MAINTENANCE INCLUDES REMOVAL OF ACCUMULATED SEDIMENT AND TRASH

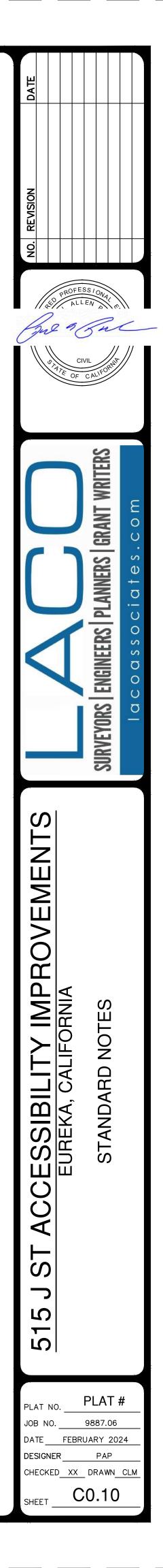
- 26. THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL APPLICABLE BMPS LISTED.
- 27. ADA COMPLIANCE: CONSTRUCTION CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT (ADA) WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY. IF CONSTRUCTION CONTRACTOR'S WORK IN THE PUBLIC RIGHT-OF-WAY WILL AFFECT PEDESTRIAN ACCESS, THE CONSTRUCTION CONTRACTOR IS REQUIRED TO PROVIDE A PROPERLY SIGNED ACCESSIBLE ROUTE OF TRAVEL. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
- 28. LIQUID ANTI-STRIPPING AGENT (LAS) SHALL BE ADDED TO THE ASPHALT BINDER AT A RATE OF 0.5% BY WEIGHT OF ASPHALT BINDER. THE LAS SHALL BE AD-HERE LOF 65-00 OR EQUIVALENT, AND SHALL BE STORED, MEASURED AND BLENDED IN ACCORDANCE WITH THE LAS MANUFACTURER'S RECOMMENDED PRACTICE. THE LAS CAN BE ADDED TO THE ASPHALT BINDER AT THE ASPHALT PLANT OR AT THE REFINERY. WHEN ADDED AT THE ASPHALT PLANT, THE EQUIPMENT SHALL INDICATE AND RECORD THE AMOUNT OF LAS ADDED. IF ADDED AT THE REFINERY, THE SHIPPING TICKET FROM THE REFINERY SHALL CERTIFY THE TYPE AND AMOUNT OF LAS ADDED.
- 29. THE ASPHALT CONCRETE MIXTURE FOR ASPHALT CONCRETE SURFACE AND ASPHALT CONCRETE BASE SHALL CONFORM TO THE FOLLOWING REQUIREMENTS: MINIMUM TENSILE STRENGTH RATIO (TSR) OF 70, AND A MINIMUM DRY TENSILE STRENGTH OF 65 POUNDS PER SQUARE INCH, BASED ON AASHTO T 283-07. AT ANY TIME DURING THE FIRST 12 MONTHS FROM THE TIME OF PLACEMENT OF THE ASPHALT CONCRETE, THE SURFACE SHALL BE VISUALLY INSPECTED BY THE IF SIGNS OF STRIPPING OF BINDER FROM AGGREGATE OR LOSS OF AGGREGATE IS APPARENT. THE CITY SHALL CORE THE ASPHALT CONCRETE SURFACE. THE CORE SAMPLES SHALL BE PREPARED PER THE METHOD FOR FIELDMIXED, LABORATORY-COMPACTED SPECIMENS AND TESTED FOR TSR. ASPHALT CONCRETE WITH A TSR LESS THAN 70 SHALL BE REMEDIATED AS REQUIRED BY THE CITY ENGINEER.
- 30. PERMANENT MONUMENTS AS SHOWN ON THE PLANS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR IN ACCORDANCE WITH THE STANDARD PLANS AFTER COMPLETION OF THE STREET IMPROVEMENTS AND STAKED IN THE FIELD BY THE ENGINEER OR SURVEYOR.
- 31. ENGINEER/SURVEYOR SHALL COORDINATE WITH THE CONTRACTOR TO RESET MONUMENTS OR PROVIDE PERMANENT WITNESS MONUMENTS AND FILE THE REQUIRED DOCUMENTATION WITH THE COUNTY SURVEYOR, PURSUANT TO BUSINESS AND PROFESSIONS CODE SECTION 8771.
- 32. IN THE EVENT THAT ANY REMAINS OF PREHISTORIC OR HISTORIC HUMAN ACTIVITIES ARE ENCOUNTERED DURING PROJECT-RELATED ACTIVITIES, WORK IN THE IMMEDIATE VICINITY OF THE FINDS SHALL HALT AND THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE PROJECT SUPERINTENDENT AND THE CITY OF SANTA ROSA INSPECTOR. WORK SHALL NOT RESUME UNTIL A QUALIFIED ARCHAEOLOGIST OR HISTORIC ARCHAEOLOGIST, AS APPROPRIATE, APPROVED BY THE CITY OF SANTA ROSA, HAS EVALUATED THE SITUATION AND MADE RECOMMENDATIONS FOR TREATMENT OF THE RESOURCE, AND WHOSE RECOMMENDATIONS ARE CARRIED OUT. IF HUMAN BURIAL REMAINS ARE ENCOUNTERED, THE CONTRACTOR MUST ALSO CONTACT THE COUNTY CORONER.

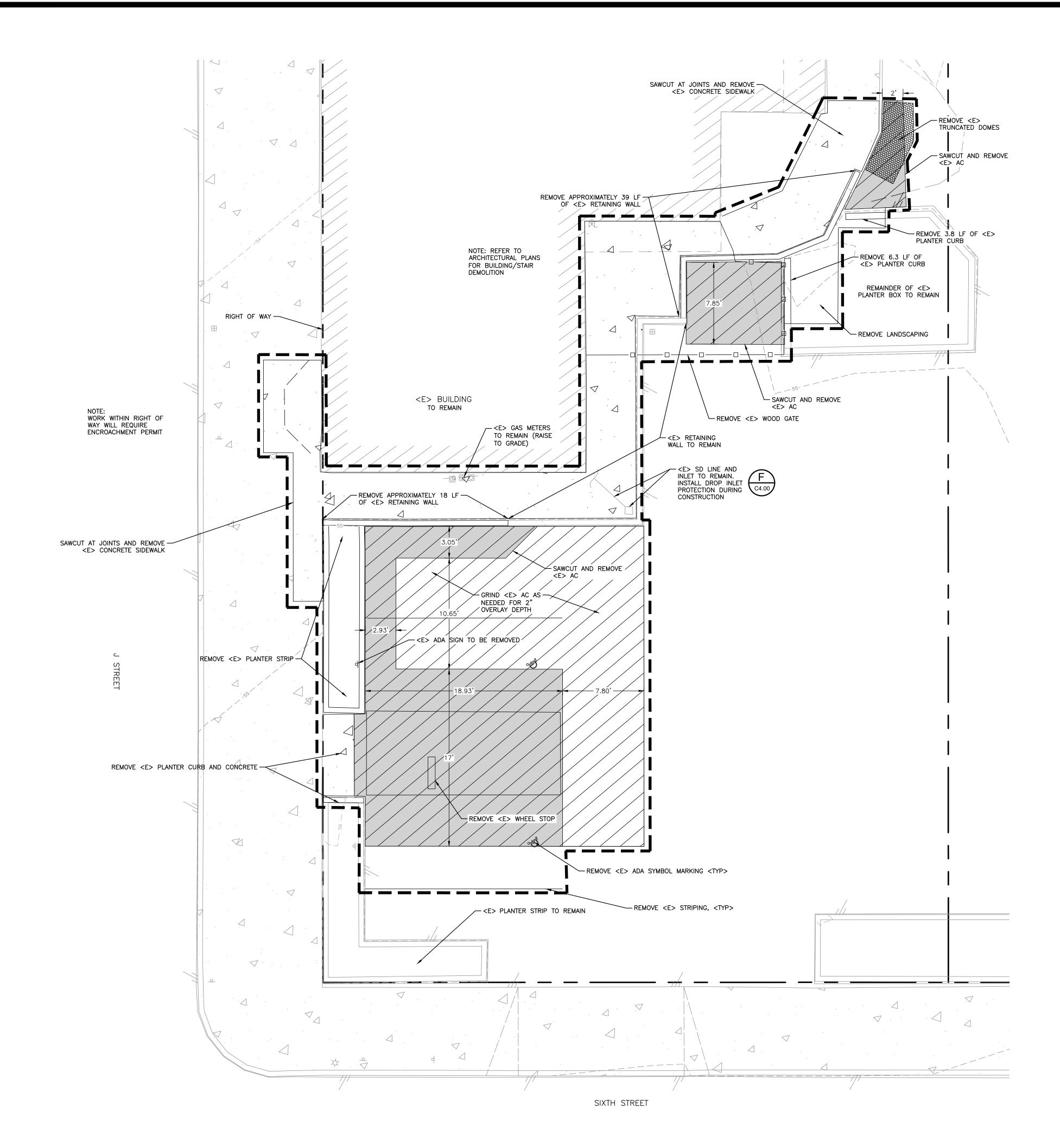
GRADING NOTES

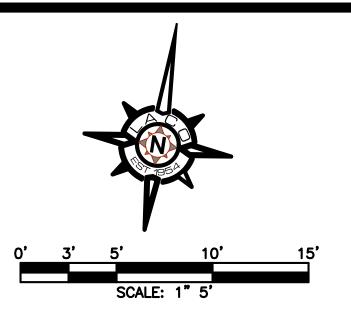
- 1. CONTRACTOR SHALL OBTAIN A DE-WATERING PERMIT FROM THE NORTH COAST REGIONAL WATER QUALITY CONTROL BOARD FOR ANY DEWATERING OPERATIONS THAT ARE USED TO MANAGE THE REMOVAL OF GROUND WATER FROM EXCAVATIONS WITH THE INTENT OF DOWNSTREAM DISCHARGE TO THE WATERS OF THE STATE OR THE STORM DRAIN SYSTEM. WHEN GROUNDWATER IS TO BE DISCHARGED TO THE SEWER PRIOR APPROVAL MUST BE OBTAINED FROM THE CITY OF EUREKA INDUSTRIAL WASTE DIVISION.
- 2. TEMPORARY STOCKPILES SHALL NOT BE LOCATED WITHIN CREEK SETBACK AREAS, PROTECTED VEGETATION/TREE AREAS OR WITHIN 10 FEET OF AN ADJACENT RESIDENTIAL PROPERTY LINE. STOCKPILES HIGHER THAN 2.5 FEET SHALL NOT BE WITHIN 50 FEET OF AN ADJACENT RESIDENTIAL PROPERTY LINE.
- TEMPORARY STOCKPILES MUST BE REMOVED BY COMPLETION OF GRADING ACTIVITIES. OTHERWISE A SEPARATE TEMPORARY USE PERMIT AND GRADING PERMIT ARE REQUIRED FOR THE STOCKPILE.
- 4. DUST CONTROL SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION.
- 5. SITE GRADING SHALL BE DONE UNDER OBSERVATION OF THE PROJECT GEOTECHNICAL ENGINEER AND SHALL BE IN COMPLIANCE WITH CHAPTER 18 APPENDIX J, MOST RECENT EDITION OF THE CALIFORNIA BUILDING CODE.
- 6. DRAINAGE FROM UPSTREAM PROPERTIES SHALL NOT BE BLOCKED BY GRADING OR CONSTRUCTION OF IMPROVEMENTS.
- 7. THE CONTRACTOR SHALL PROTECT EXISTING DRAINAGE FACILITIES FROM SEDIMENTATION DURING ALL PHASES OF CONSTRUCTION.
- 8. HAZARDOUS MATERIAL SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE REQUIREMENTS OF THE CITY'S FIRE DEPARTMENT. THE APPLICANT IS REQUIRED TO DEMONSTRATE COMPLIANCE WITH STATE AND LOCAL CODES FOR REMOVAL OF ASBESTOS CONTAINING MATERIALS DURING DEMOLITION OF ANY STRUCTURES ON THE PROJECT SITE.
- 9. ALL PADS SHALL BE CONSTRUCTED TO A TOLERANCE OF 0.1 FEET +/- FROM SHOWN PAD ELEVATION.
- 10. RECORD DRAWINGS SHALL INCLUDE SUB-DRAINS AND CLEAN-OUTS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
- 11. DEVELOPMENT MUST CONFORM TO 40 CFR (CODE OF FEDERAL REGULATIONS) PARTS 122, 123 AND 124 NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT APPLICATIONS FOR STORM WATER DISCHARGE. PROJECT MUST ALSO CONFORM WITH ANY DESIGN AND CONSTRUCTION POLICIES ADOPTED BY THE CITY TO CONFORM WITH THESE REGULATIONS.
- 12. FILLING IS RESTRICTED TO I FOOT MAXIMUM ABOVE EXISTING GROUND AND 2 FOOT MINIMUM ADJACENT TO EXISTING RESIDENTIAL LOTS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- 13. BLASTING (IF REQUIRED) REQUIRES A PERMIT FROM THE CITY FIRE DEPARTMENT.
- 14. PRIOR TO ANY GRADING OPERATION THE GRADING CONTRACTOR AND THE PROJECT GEOTECHNICAL ENGINEER SHALL JOINTLY SEARCH THE SITE FOR EXISTING WELLS AND SEPTIC SYSTEMS. PROJECT SHALL NOTIFY THE CITY OF FINDINGS.
- 15. REMOVAL OF ANY PERMANENT STRUCTURE 10'X 12'OR LARGER REQUIRES A DEMOLITION PERMIT FROM THE CITY BUILDING DIVISION.
- 16. PRIVATE DRIVEWAYS SHALL BE CONSTRUCTED UNDER THE OBSERVATION OF THE SOILS ENGINEER IN COMPLIANCE WITH THE CITY DESIGN AND CONSTRUCTION STANDARDS. PROGRESS AND FINAL REPORTS SHALL BE FURNISHED TO THE CITY IN COMPLIANCE WITH C.B.C. SPECIAL INSPECTION REQUIREMENTS. ALL COSTS RELATED TO SUCH SPECIAL INSPECTIONS SHALL BE BORNE BY THE OWNER/DEVELOPER.

ABBREVIATIONS

AGGAGGREGABLDGBUILDINGBWBOTTOM (C)CBCATCH B/CLCENTER ICMUCONCRETMASONRYCOCLEAN OUCOMPCOMPACTCCCONCRETCPCONTROLCPCORRUGADIA or Ø DIAMETERDIDRAIN INIEAEACHECEDGE OFELECELECTRIC/	AIN CONCRETE TE OF WALL ASIN LINE E UNIT(S) JT ION E POINT TED PLASTIC PIPE LET CONCRETE AL	GB INV LF MAX MIN NO. <n> NIC NTS OC PCC PVC R REC SCH SCTPW SCWA SD SAP</n>	GRADE BREAK INVERT LINEAL FEET MAXIMUM MINIMUM NUMBER NEW NOT IN CONTRACT NOT TO SCALE ON CENTER PORTLAND CEMENT CONCRETE POLYVINYL CHORIDE RADIUS RECORD SCHEDULE SONOMA COUNTY TRANSPORTATION PUBLIC WORKS SONOMA COUNTY WATER AGENCY STORM DRAIN SEE ARCHITECTURAL PLANS
EG EXISTING EL ELEVATION EP EDGE OF <e> EXISTING FF FINISH FL FG FINISH GF FL FLOW LIN FND FOUNDATI G GROUND</e>	N PAVEMENT LOOR RADE E	SAD SW TW TC TG TD <typ> U.S.P. VEG</typ>	SEE ARCHITECTURAL DRAWINGS SIDEWALK TOP OF WALL TOP OF CURB TOP OF GRATE TOP OF DIKE TYPICAL UNDER SEPARATE PERMIT VEGETATION

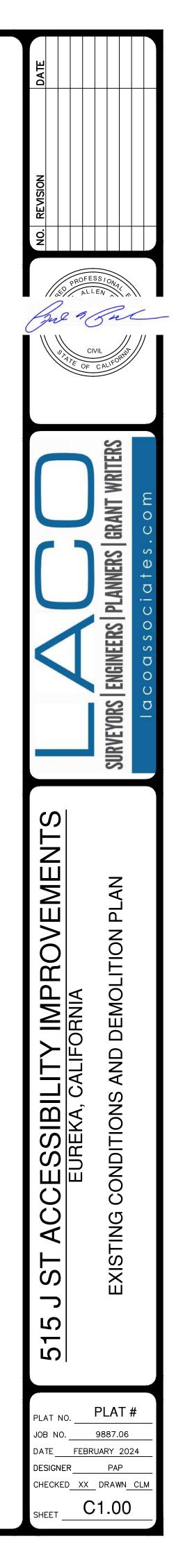


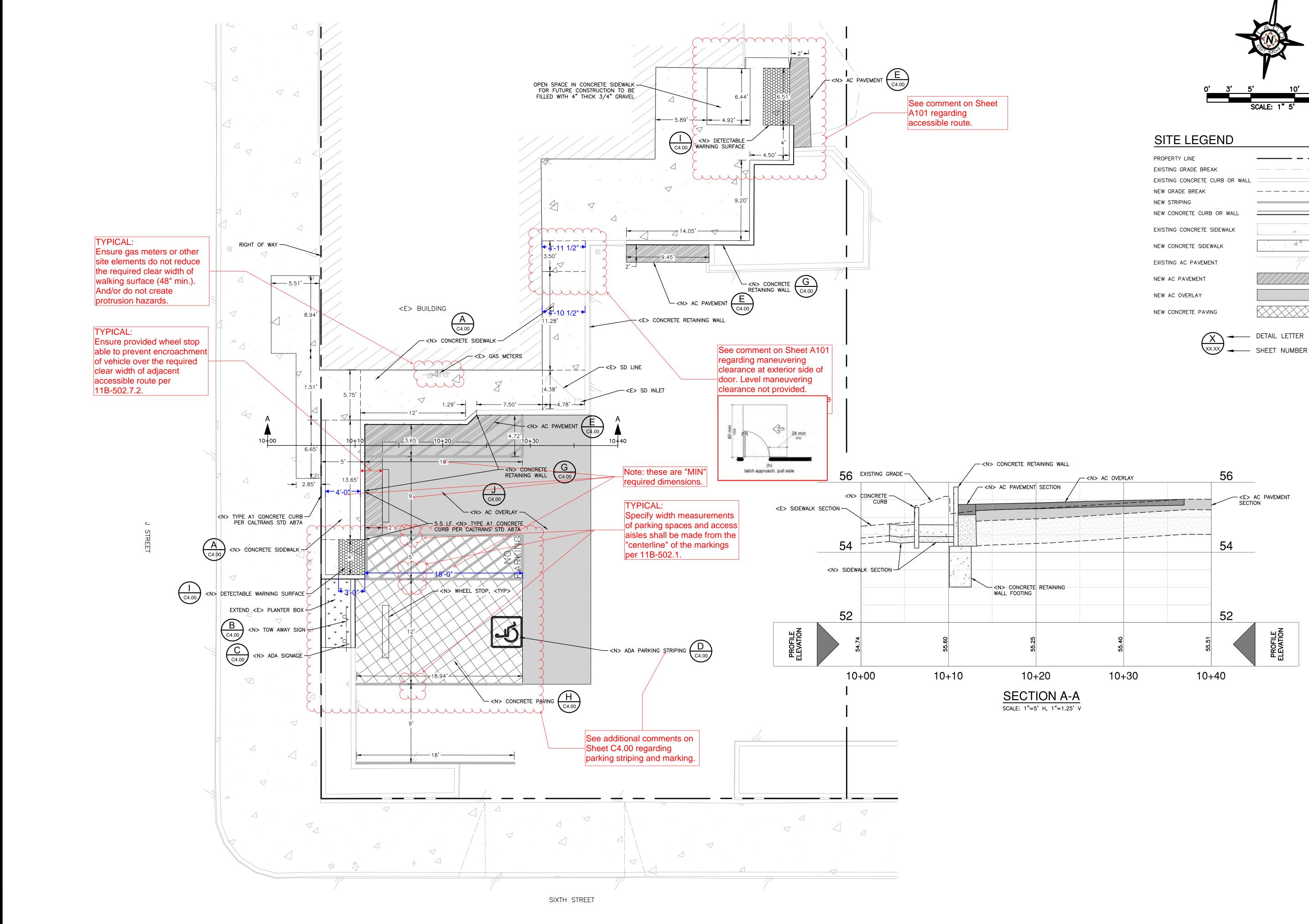


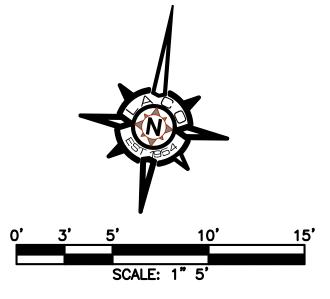


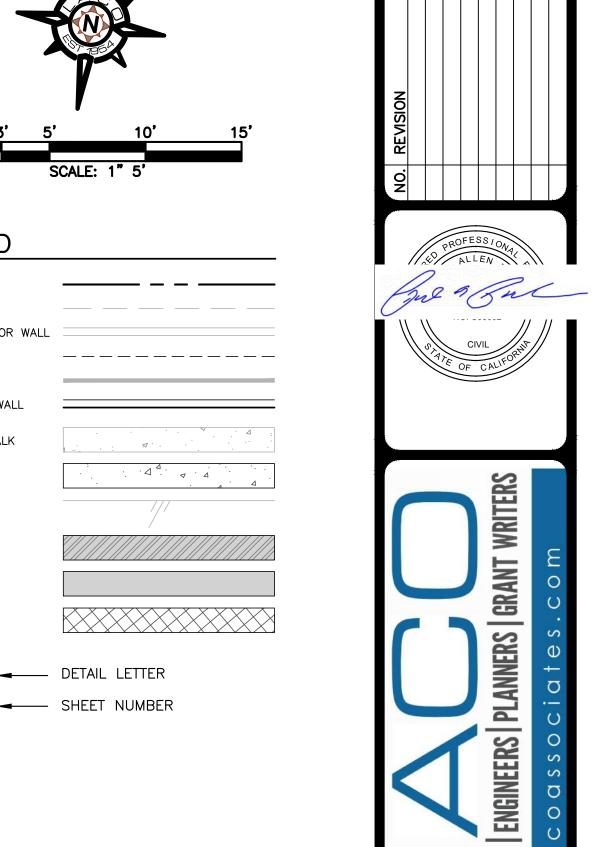
DEMO LEGEND

DEMO LIMITS	
EXISTING CONTOUR	— — — — - 55 - — — — — —
EXISTING CURB TO REMAIN	
DEMO EXISTING CURB	
EXISTING SIDEWALK TO REMAIN	
DEMO EXISTING SIDEWALK	
EXISTING AC PAVEMENT TO REMAIN	///
GRIND EXISTING AC	
REMOVE EXISTING AC	







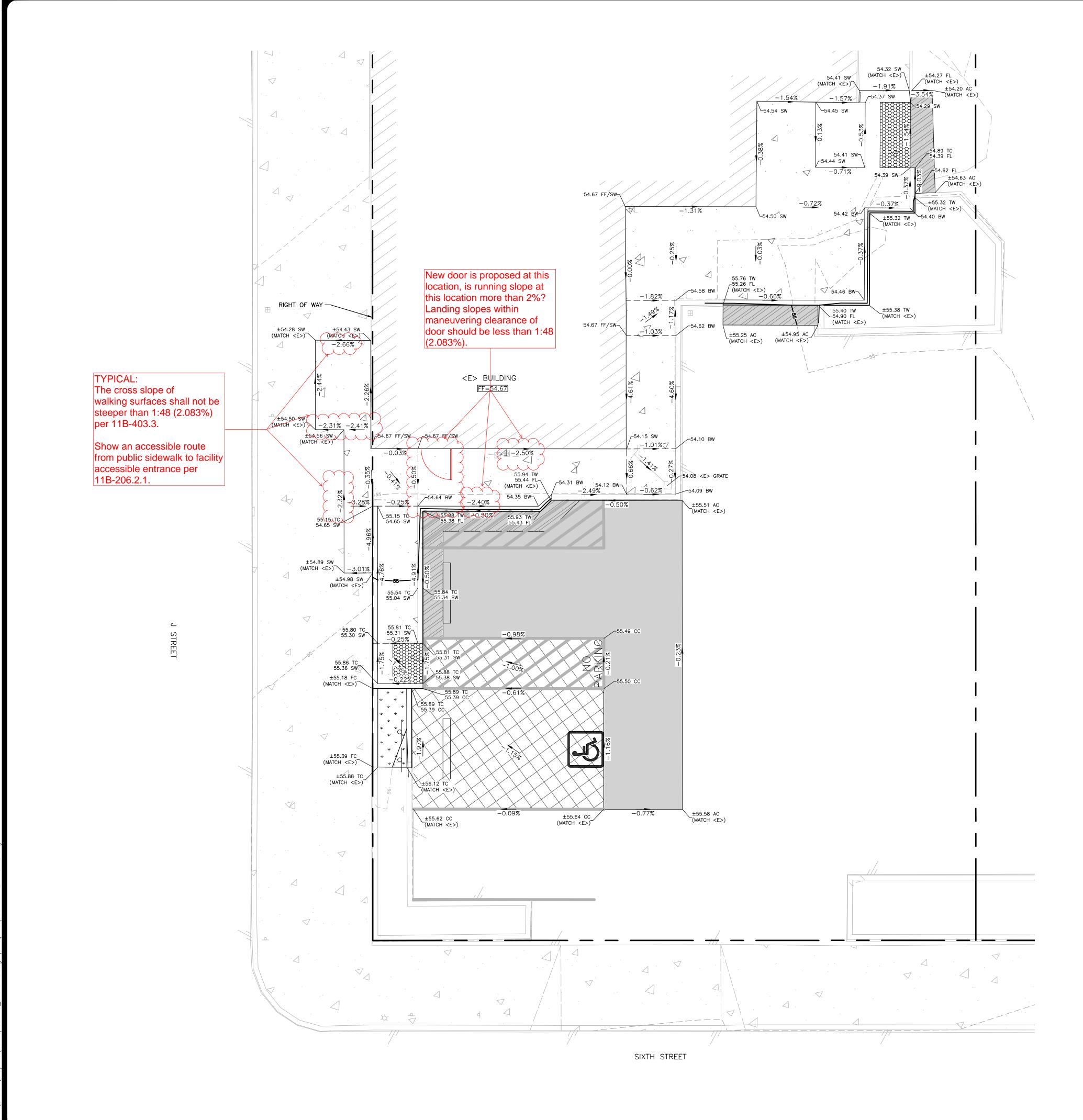




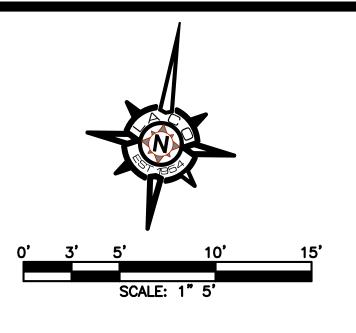
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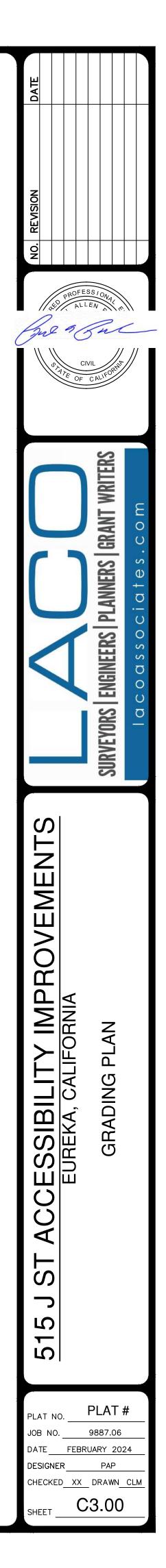


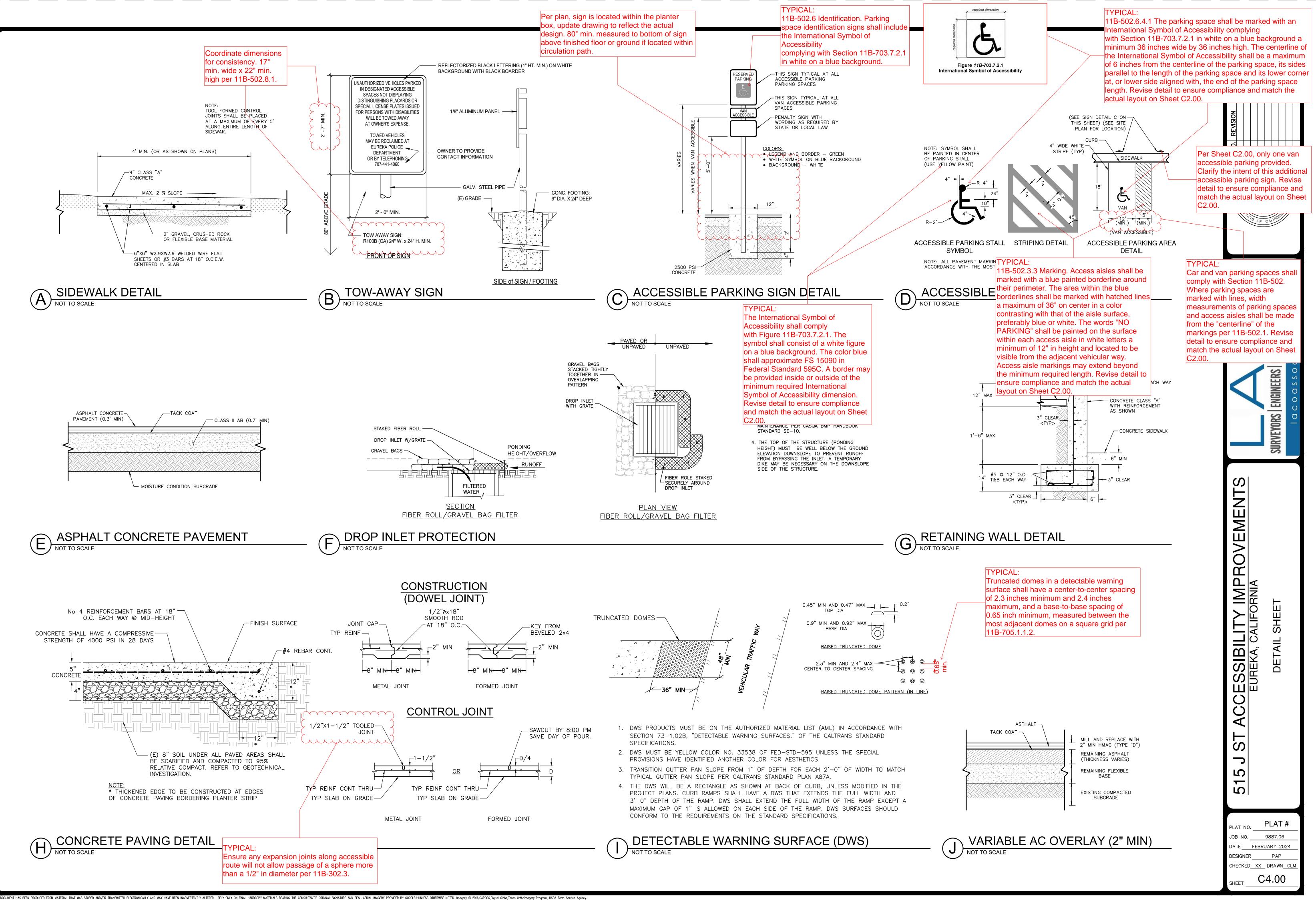
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GRADING LEGEND

PROPERTY LINE EXISTING CONTOUR PROPOSED CONTOUR FLOW SLOPE ARROW (PROPOSED) PROPOSED GRADE BREAK





STRUCTURAL PLANS

2

- FOR -

ACCESSIBILITY MODIFICATIONS

515 J STREET EUREKA, CA 95501

BROKAW DESIGN



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1

SN1 SN2 SN3

PLANS S1 S2

SD1 SD3

P.O. BOX 3103 ROHNERT PARK, CA 94927

- BY -

STRUCTURAL ENGINEERS

3

4

5

SHEET INDEX

GENERAL NOTES

- SCS STRUCTURAL COVER SHEET
 - STRUCTURAL NOTES
 - STRUCTURAL NOTES
 - STRUCTURAL NOTES

- FOUNDATION PLAN
- DECK FRAMING PLAN

STRUCTURAL DETAILS

- SD0 FOUNDATION DETAILS
 - FOUNDATION DETAILS
 - FRAMING DETAILS

DESIGN PARAMETERS

PROJECT DESIGN CRITERIA						
BUILDIN	IG CODE:			2	2022 CBC	
LOCATION (LATIT	UDE / LONGITU	JDE):		40.8020)33, -124.161	263
	GEOTECH	NICAL P	AR.	AMETERS	:	
SOILS E	NGINEER:			NO	T PROVIDED	
REPORT	NUMBER:		-			
DA	ATE:		-			
ALLOWABLE SOIL E	BEARING PRES	SURE:		1,500 PSF	(CODE MINI	MUM)
PASSIVE PRESSURE: 150 PCF						
GRAVITY DESIGN PARAMETERS: (PSF, SERVICE LOADS)						DS)
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DECK:	10	-	- 80 90			

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	ACI 3	18 TABL	E 19.3.1	.1 - EXPC	DSURE CATEGOR	ES AND CLASS	ES	
CATE	GORY	С	LASS		CC ETE NOT EXPOSE	NDITION		
			FO			CYCLES		
-	=		F1	Cì	CLES WITH LIMIT	ED EXPOSURE	TO WATER	
FREEZING AND THAWING			F2	CYC	CRETE EXPOSED	JENT EXPOSURE	TO WATER	
F			F3		CRETE EXPOSED	NT EXPOSURE TO	O WATER AND	
				EXPOSURE TO DEICING CHEMICALS WATER SOLUBLE DISSOLVED SULFATE (SO				
				SULFA1 PERCE	ER, PPM ^[2]			
	S		S0		SO4 ²⁻ < 0.10		⁻ < 150 O4 ²⁻ < 1500	
SULFATE S1					SO4 ²⁻ < 0.20 SO4 ²⁻ < 2.0	OR SE	AWATER	
<u>S2</u> S3				0.20	D4 ²⁻ <u><</u> 10,000 > 10,000			
			wo		CONCRETE		· F	
-	V		~~~				_	
	NTACT WATER		W1	CONCRETE IN CONTACT WITH WATER WHERE PERMEABILITY IS NOT REQUIRED				
			W2	CONC	RETE IN CONTAC PERMEABI	T WITH WATER _ITY IS REQUIRE		
	-		C0		CRETE DRY OR P ICRETE EXPOSED			
) OSION		C1		EXTERNAL SOL	RCES OF CHLO	RIDES	
PROTEC REINFOR			C2	SOUR	ETE EXPOSED TC CE OF CHLORIDE RACKISH WATEF	S FROM DEICING	G CHEMICALS,	
					THES	E SOURCES		
	ENTRAT	ON OF [DISSOL\	/ED SULF	HALL BE DETERN FATES IN WATER,			
ETERMINE	D BY AS	TM D51	6 OR AS	5TM D413	30.			
ACI 3	18 TABL	E 19.3.2	.1 - REG		NTS FOR CONCR	ETE BY EXPOSU	RE CLASS	
XPOSURE	MAX	MIN fc						
CLASS	W/CM						LIMITS ON	
					AIR CONTENT		CEMENTITIOL MATERIALS	
FO	N/A	2500			N/A		N/A	
F1	0.55	3500	PEF		19.3.3.1 FOR CON		N/A	
F2 F3	0.45 0.40 ^[3]	4500 5000 ^[3]	-	TABLE	19.3.3.3 FOR SHC	TCRETE	N/A 26.4.2.2(b)	
				CEMENTI	TIOUS MATERIAL	S ^[4] - TYPES	CALCIUM	
					1		CHLORIDE ADMIXTURE	
SO	N/A	2500	NO	A C150 TYPE	ASTM C595 NO TYPE	ASTM C1157 NO TYPE	NO	
	14/7 (2000	RESTI	RICTION		RESTRICTION	RESTRICTION	
S1	0.50	4000	1	[5][6]	TYPES WITH (MS) DESIGNATION	MS	NO RESTRICTION	
					TYPES WITH		NOT	
S2	0.45	4500		V ^[6]	(HS) DESIGNATION	HS	NOT PERMITTED	
					TYPES WITH (HS)			
S3 OPTION 1)	0.45	4500	POZ	PLUS ZOLAN	DESIGNÁTION PLUS	HS PLUS POZZOLAN OR	NOT	
				SLAG /IENT ^[7]	POZZOLAN OR SLAG	SLAG CEMENT ^[7]	PERMITTED	
S3					TYPES WITH		NOT	
OPTION 2)	0.45	4500		V ^[8]	(HS) DESIGNATION	HS	PERMITTED	
W0	N/A	2500	1			NE		
W1	N/A	2500				2.2 (d)		
W2	0.5	4000			26.4.2 ATER SOLUBLE	2.2 (d)		
			CHLO	RIDE ION	I (CL ⁻) CONTENT E, PERCENT BY			
			W			ADDITIONAL	PROVISIONS	
			ESSE	D-ISSUE	PRESTRESSED CONCRETE			
CO	N/A	2500		.00	0.06		DNE	
C1 C2	N/A 0.40	2500 5000		.30 .15	0.06			
] THE W	/CM IS E	BASED C	N ALL C	DEMENTI	TIOUS AND SUPP			
-	AXIMUN	W/CM I			APPLY TO LIGHTW			
Ċ' SHALL	BE 450	D PSI.			W/CM SHALL BE			
PERMITTED	FOR ALI	_ SULFA	TE EXPO	DSURE C	IENTITIOUS MATE LASSES WHEN TE			
RESISTANCE 6.4.2.2(C).					N 'PES OF PORTLAN			
-	(C3A) C		,		CENT ARE PERMI			
6] OTHER					SUCH AS TYPE I			
EXPOSURE (CLASS S	1 OR LE	SS THA	N	JUNTEINIS ARE LI	_00 THAN & PEH		
5 PERCENT 7] THE AMOUI								
	L BE A	T LEAS	T THE /		OF THE POZZOL THAT HAS BEE			
		,v⊏ SUL	-raie f					
WHEN USE		ONCRET		RESISTAN TAINING	TYPE V CEMEN			
VHEN USE JNT OF TH IALL BE A	D IN CO E SPEC T LEAST	DNCRET IfiC SOL THE A	JRCE O	RESISTAN TAINING F THE P TESTED	TYPE V CEMEN OZZOLAN OR S D IN	LAG CEMENT T	O BE USED	
VHEN USE INT OF TH IALL BE A ⁻ ICCORDAN 3] IF TYPE	D IN CO E SPEC T LEAST CE WITH E V CEM	DNCRET IfIC SOU THE A HASTM ENTIS U	JRCE O IMOUNT C1012 A SED AS	RESISTAN TAINING F THE F TESTEL AND MEE THE SOL	TYPE V CEMEN OZZOLAN OR S O IN TING THE CRITEF LE CEMENTITIOUS	LAG CEMENT T IIA IN 26.4.2.2(C) 3 MATERIAL, THE	O BE USED E OPTIONAL	
WHEN USE JNT OF TH ALL BE A ACCORDAN 8] IF TYPE SULFATE RE C150 SHALL	D IN CO E SPEC T LEAST CE WITH E V CEM SISTANO BE SP	DNCRET IfIC SOU THE A A ASTM ENTIS U CE REQI ECIFIED.	JRCE O MOUNT C1012 A SED AS JIREME	RESISTAN TAINING F THE F TESTED ND MEE THE SOL NT OF 0.0	TYPE V CEMEN POZZOLAN OR S D IN TING THE CRITEF LE CEMENTITIOUS 040 PERCENT MA	LAG CEMENT T IIA IN 26.4.2.2(C) S MATERIAL, THE XIMUM EXPANS	O BE USED : E OPTIONAL HON IN ASTM	
UNT OF TH HALL BE A ACCORDAN 8] IF TYPE SULFATE RE C150 SHALL [9] THE M THE CHLOR	D IN CO E SPEC T LEAST CE WITH E V CEM SISTAN BE SP IASS OF IDE CON	DNCRET IfIC SOU THE A ASTM ENTIS U CE REQU ECIFIED. SUPPLE ITENT S	JRCE O MOUNT C1012 A SED AS JIREME JIREME	RESISTAN TAINING F THE F TESTEL AND MEE THE SOL NT OF 0.1 RY CEMI DT EXCEI	TYPE V CEMEN OZZOLAN OR S O IN TING THE CRITEF LE CEMENTITIOUS	LAG CEMENT T IIA IN 26.4.2.2(C) S MATERIAL, THE XIMUM EXPANS RIALS USED IN E THE PORTLAND	O BE USED E OPTIONAL HON IN ASTM DETERMINING CEMENT.	

[11] CONCRETE COVER SHALL BE IN ACCORDANCE WITH 20.5.

EARTHWORK AND FOUNDATIONS

- <u>GEOTECHNICAL REPORT:</u> PERFORM SOILS WORK COMPLYING WITH FOUNDATION DESIGN BASED ON RECOMMENDATIONS IN SOILS REPORT. SEE STRUCTURAL COVER SHEET FOR SOILS REPORT NUMBER AND DATE.
- ALLOWABLE FOUNDATION DESIGN VALUES PER GEOTECHNICAL REPORT: VALUES BELOW MAY BE INCREASED 33 PERCENT FOR TRANSIENT LOADING. BEARING CAPACITY: SEE PROJECT DESIGN CRITERIA Α. PASSIVE LATERAL BEARING PRESSURE: SEE PROJECT DESIGN CRITERIA
- COEFFICIENT OF FRICTION: SEE PROJECT DESIGN CRITERIA GRADING, EXCAVATIONS, BACKFILL AND COMPACTION OF BACKFILL: COMPLY WITH GEOTECHNICAL REPORT AND REQUIREMENTS OF GOVERNING CODE AUTHORITY AND
- PERFORMED ONLY UNDER CONTINUOUS SPECIAL INSPECTION OF GEOTECHNICAL ENGINEER PREPARATION OF SOIL UNDER BUILDING PAD: SEE GEOTECHNICAL REPORT FOR
- OVER-EXCAVATION OF EXISTING SOIL AND INSTALLATION OF PROPERLY COMPACTED BACKFILL.
- FOUNDATION EXCAVATIONS: FOUNDATIONS ARE TO BEAR ON FIRM EXISTING SOIL OR APPROVED COMPACTED FILL AS INDICATED IN GEOTECHNICAL REPORT. EXCAVATIONS ARE TO BE INSPECTED BY GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL AND FORMWORK. ENSURE EXCAVATIONS ARE CLEANS, DRY AND FREE OF DEBRIS OR LOOSE SOIL. SLOPE SIDES OF EXCAVATION NOT LESS THAN MINIMUM SLOPE INDICATED IN GEOTECHNICAL REPORT. CAST CONCRETE DIRECTLY AGAINST EXCAVATED SURFACES.
- BACKFILLING OF RETAINING WALLS: PLACE AFTER COMPLETION AND INSPECTION OF WATERPROOFING. ADEQUATELY SHORE RETAINING WALLS DURING BACKFILL OPERATION. UNLESS ADEQUATELY SHORED, DO NOT PLACE BACKFILL BEHIND BUILDING STRUCTURE RETAINING WALLS (EXCLUDING SITE RETAINING WALLS) UNTIL CONCRETE AT ELEVATED FLOOR LEVELS ADJACENT TO WALLS ARE COMPLETELY POURED (IN AREA) AND HAVE CURED FOR AT LEAST 7 DAYS.
- WATER EXPOSURE AT BUILDING PERIMETER FOOTINGS: AT AREAS WHERE SIDEWALKS OR PAVING DO NOT IMMEDIATELY ADJOIN STRUCTURE, PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURE AT BUILDING PERIMETER, LANDSCAPE IRRIGATION IS NOT PERMITTED WITHIN FIVE FEET OF BUILDING PERIMETER FOOTINGS EXCEPT WHEN ENCLOSED IN PROTECTED PLANTERS WITH DIRECT DRAINAGE AWAY FROM STRUCTURE OR WHICH COMPLIES WITH APPLICABLE CODE. DISCHARGE FROM DOWN SPOUTS, ROOF DRAINS AND SCUPPERS IS NOT PERMITTED ONTO UNPROTECTED SOILS WITHIN FIVE FEET OF BUILDING PERIMETER. REFER TO GEOTECHNICAL REPORT FOR COMPLETE REQUIREMENTS.

CONCRETE

- CONCRETE COMPRESSIVE STRENGTH: ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH AS SHOWN IN THE TABLE 2 BELOW AT 28 DAYS, U.N.O. ON PLANS. SEE ALSO SULFATE CONTENT NOTES.
- AGGREGATES IN CONCRETE: SHALL BE NATURAL SAND AND ROCK (150 LB/CU. FT) CONFORMING TO ASTM C33. AGGREGATE SHALL HAVE PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.04% PER ASTM C-157. DO NOT CHANGE SOURCE OF AGGREGATE DURING COURSE OF WORK WITHOUT WRITTEN CONSENT OF ENGINEER.
- CEMENT: SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150. CEMENT SHALL BE TYPE II OR AS REQUIRED TO SATISFY SITE SOIL CONDITIONS. REFER TO TABLE 4 FOR CONCRETE CEMENT REQUIREMENTS ON SOIL CONTAINING SULFATE. REFER TO TABLE 2 FOR MAXIMUM WATER TO CEMENT RATIO.

	CONCRETE STRENGTH							
	CONDITION	STRENGT	H, fc	WATER / CEMENT RATIO	MA	AX. SLUMP		
	SLAB ON GRADE	2,500 F	SI	0.65		6"		
	FOOTING & GRADE BEA	AM 2,500 F	PSI	0.65		6"		
4.	 REBAR CLEAR COVER IN CONCRETE: THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE: 							
	REBAR CLEAF	R COVER FOR CAST	-IN-PLAC	E CONCRETE MEN	1BER	S		
	CONCRETE EXPOSURE	MEMBER	R	EINFORCEMENT		SPECIFIED COVER		
	SLAB ON GRADE	ALL		ALL		CENTER OF SLAB OR 2" MIN		
	CONCRETE AGAINST & PERMANENTLY IN CONTACT WITH <u>GROUND:</u>	ALL	ALL ALL			3"		
	EXPOSED TO WEATHER		No. 6 THROUGH No. 18 BARS			2"		
	OR IN CONTACT WITH GROUND	ALL		No. 5 BAR, W31 OR D31 WIRE, AND SMALLER		1-1/2"		
		SLABS, JOISTS, No		No. 14 AND No. 18 BARS		1-1/2"		
	NOT EXPOSED TO	AND WALLS	No. 11	No. 11 BAR AND SMALLER		<u>3</u> " 4		
	WEATHER OR IN CONTACT WITH GROUND	BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES		RY REINFORCEMEI PS, TIES, SPIRALS, A HOOPS		1-1/2"		

- VIBRATION: VIBRATION OF CONCRETE SHALL BE IN ACCORDANCE WITH GENERAL PROVISIONS OUTLINED IN PORTLAND CEMENT ASSOCIATION SPECIFICATION ST26.
- CURING: CONCRETE SHALL BE MAINTAINED AT IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER ITS PLACEMENT. FOR CONCRETE OTHER THAN SLAB ON GRADE, APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING. ONLY IF APPROVED BY THE ENGINEER OR ARCHITECT.
- INSPECTIONS, TESTING & QUALITY ASSURANCE: REFER TO STRUCTURAL NOTE SHEETS FOR DEPUTY SPECIAL INSPECTION, TESTING & STRUCTURAL OBSERVATION REQUIREMENTS. A MINIMUM OF ONE COMPRESSION TEST AT 7 DAYS AND 2 TESTS AT 28 DAYS FOR ALL CONCRETE SAMPLES. TAKE TEST AT A FREQUENCY OF ONCE EVERY 150 CU. YDS OR 5,000 SQ. FT MINIMUM.
- ANCHOR BOLTS, DOWELS, INSERTS: SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.
- CONSTRUCTION AND POUR JOINTS: LOCATIONS SHALL BE APPROVED BY ENGINEER PRIOR TO POURING CONCRETE.
- 10. FLY ASH: SHALL NOT BE USED IN CONCRETE.
- FORMWORK: FORMWORK TOLERANCE SHALL IN ACCORDANCE WITH THE C.B.C. AND A.C.I. STANDARDS.
- 12. HOT AND COLD WEATHER CONCRETING: A. HOT WEATHER CONCRETING: WHEN AIR TEMPERATURE RISES ABOVE 80° F AND HUMIDITY FALLS BELOW 25, THE CONTRACTOR SHALL FOLLOW HOT WEATHER CONCRETING IN ACCORDANCE WITH ACI 305 5-77. CONTRACTOR SHALL BE PREPARED TO USE FOG SPRAY OR OTHER PRECAUTIONS ACCEPTABLE TO ARCHITECT WHEN RATE OF EVAPORATION EQUALS OR EXCEEDS 0.2 POUNDS PER SQUARE FOOT PER HOUR.
- COLD WEATHER CONCRETING: ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER. ALL CONCRETE MATERIALS AND ALL REINFORCEMENT, FORMS FILLERS AND GROUND WITH WHICH THE CONCRETE IS TO CONTACT SHALL BE FREE FROM FROST. FROZEN MATERIAL OR MATERIALS CONTAINING ICE SHALL NOT BE USED. COLD WEATHER CONCRETING SHALL BE DONE IN ACCORDANCE WITH ACI 306 R-78. (LATEST EDITION)
- 13. PIPES IN CONCRETE: PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES, BUT SHALL NOT BE EMBEDDED THEREIN. PIPES OR DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN THE STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED.
- 14. EXPOSED CORNERS: PROVIDE 3/4" CHAMFERS AT ALL EXPOSED CORNERS.
- 15. ARCHITECTURAL DETAILS: REFER TO ARCHITECTURAL DRAWINGS FOR REVEALS, AREAS OF TEXTURED CONCRETE OR SPECIAL FINISHES, ITEMS REQUIRED TO BE CAST INTO THE CONCRETE, CURBS AND SLAB DEPRESSIONS.
- 16. DRYPACK OR GROUT: SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.

		AB
:)	NUMBER OR POUND EXISTING	EF EI
	APPROXIMATE	EJ
/E B	ARCHITECT/ENGINEER ANCHOR BOLT	ELE EMBED
BV	ABOVE AMERICAN CONCRETE	EN EOS
CI	INSTITUTE	EQ
DDL DDM	ADDITIONAL ADDENDUM	EQL SP EQUIP
DJ DMIN	ADJACENT ADMINISTRATION	ES EW
FF	ABOVE FINISH FLOOR	EWB
HR	ANCHOR AMERICAN INSTITUTE	EXP
ISC	OF STEEL CONSTRUCTION	EXT F/
J	ALIGN JOIST	FA
lt LUM	ALTERNATE ALUMINIUM	FAS BD FDN
PA	AMERICAN PLYWOOD ASSOCIATION	FF FFA
PPD	APPROVED	FFB
PPX RCH	APPROXIMATE ARCHITECTURAL	FG FH
SD	ALLOWABLE STRESS DESIGN	FIN FJ
SPH	ASPHALT	FL
STM	AMERICAN SOCIETY FOR TESTING AND	FLG FLR
-	MATERIALS	FNGR
ТС	ACOUSTICAL TILE CEILING	FOC FOF
ТСН	ATTACHMENT ANCHOR TIEDOWN	FOM FOS
TS	SYSTEM	FOUN
WA WN	ALIGN WITH ABOVE AWNING	FRMG FRT
WS	AMERICAN WELDING SOCIETY	FSTNR
/В	ΒΑϹΚ ΤΟ ΒΑϹΚ	FT
al Alc	BALANCE BALCONY	FTG FURR
D DRY	BOARD BOUNDARY	FWRK GA
EV	BEVEL	GALV
EW KG	BOTTOM EACH WAY BACKING	GLB GLZ
LDG	BUILDING	GR
lk Lkg	BLOCK BLOCKING	GR BM GT
LW M	BELOW BEAM	GYP GYP-CR
N	BOUNDARY NAILING	E
OB OW	BOTTOM OF BEAM BOTTOM OF WALL	HD HDR
P RCG	BASE PLATE BRACING	HDWR HF
RG	BEARING	HGR
s SMT	BOUNDARY SCREWS BASEMENT	HGT HORZ
TM TR	BOTTOM BETTER	HS
TWN	BETWEEN	HSS
ANT	CAMBER CANTILEVER	нт
BC	CALIFORNIA BUILDING CODE	НVΥ
D	CONSTRUCTION	IBC
IP	DOCUMENTS CAST IN PLACE	ID IN
J	CONSTRUCTION JOINT	INC
IP	OR CONTROL JOIST COMPLETE JOINT	INFO INSUL
) <i>F</i>	PENETRATION CENTERLINE	INT JNT
LDG	CLADDING	JST
lg Ll	CEILING COLUMN LINE	KSF KWY
LR	CLEAR CONCRETE MASONRY	L LF
MU	UNIT	LL
NTOR OL	CONTRACTOR COLUMN	LLH LLV
ONC OND	CONCRETE CONDITION	LNTL LONGIT
ONN	CONNECTION	LSL
ONT SINK	CONTINUOUS COUNTERSINK	LT WT
TRD	CENTERED	LVL
VIF	CONTRACTOR TO VERIFY IN FIELD	мах
B BL	DROP BEAM DOUBLE	МВ МЕСН
EMO	DEMOLISH	MFR
EPT F	DEPARTMENT DOUGLAS FIR	MID MIN
IA IAG	DIAMETER DIAGONAL	MIRR MISC
IM	DIMENSION	мо
IST J	DISTRIBUTED DECK JOIST	MOD MTRL
L N	DEAD LOAD DOWN	MULT N/A
Р	DEEP	N/P
R TL	DROP DETAIL	NIC NTS
WG	DRAWING	ø
۹ ۲	EACH	

ABB	REVIATIONS	
EF	EACH FACE	OH
El	EXPANSION INDEX	OMF
EJ ELE	EXPANSION JOINT ELEVATION	OPEN
EMBED	EMBEDMENT	OPP
EN	EDGE NAILING	OWSJ
EOS EQ	EDGE OF SLAB EQUAL	OWWJ
EQL SP	EQUALLY SPACED	PAF
EQUIP	EQUIPMENT	
ES EW	EDGE SCREWS EACH WAY	PERF PERP
EWB	ENGINEERED WOOD	PI
	BEAM	PL PLBG
	EXPANSION EXTERIOR	PLYWD
,	FACE OF	PNL
	FROM ABOVE FASCIA BOARD	PREFAB
FDN	FOUNDATION	PSF
FF	FINISHED FLOOR	PSI
FFA FFB	FROM FLOOR ABOVE FROM FLOOR BELOW	
-	FINISHED GRADE	PSL
FH FIN	FULL HEIGHT FINISH	PT P-T
FJ	FLOOR JOIST	PUR
FL	FLUSH	RC
FLG FLR	FLANGE FLOOR	REF REINF
FNGR	FINGER	REPL
	FACE OF CONCRETE	REQ REQ'D
-	FACE OF FINISH FACE OF MASONRY	RECU
FOS	FACE OF STUD	REV
FOUN FRMG	FOUNDATION FRAMING	RF RFG
-	FIRE RETARDANT	RFI
-RT	TREATED	RM
	FASTENER FEET	RO
	FOOTING	SAD
-	FURRING	SCHD
FWRK GA	FLATWORK GAUGE	SECT
GALV	GALVANIZED	SHTG
GLB GLZ	GLU-LAM GLAZING	SIM
-	GRADE	SMF
-	GRADE BEAM	SMS SN
GT GYP	GIRDER TRUSS GYPSUM	SOG
GYP-CRET	GYPSUM CONCRETE	SPEC SPF
E HD	HOLDOWN	SPR
HDR	HEADER	SQ
	HARDWARE	SQSH SS
HF HGR	HEM-FIR HANGER	STAGG
HGT	HEIGHT	STD
HORZ HS	HORIZONTAL	STIFF STIR
13	HIGH STRENGTH HOLLOW STRUCTURAL	STL
HSS	SECTION	STRUCT STS
нт	OR TUBE STEEL HEIGHT	SUPPL
HVY	HEAVY	SW
BC		SYM T&B
D	BUILDING CODE	T&G
N	INCH	TBA TBB
	INCREMENT INFORMATION	ТЕМР
-	INSULATION	TFA
		TFB THK
JNT JST	JOINT JOIST	THRD
KSF	KIPS PER SQUARE FOOT	THRU TOB
KWY	KEYWAY ANGLE	TOF
LF	LINEAR FOOT	TOJ
LL	LIVE LOAD	TOS TOT
LLH LLV	LONG LEG HORIZONTAL	TOW
LNTL	LINTEL	TP
LONGIT		TRANS\ TYP
LSL	LAMINATED STRAND LUMBER	UNO
LT WT	LIGHT WEIGHT	0110
LVL	LAMINATED VENEER LUMBER	URM
MAX	MAXIMUM	VERT
MB	MACHINE BOLTS	VIF W
MECH MFR	MECHANICAL MANUFACTURER	W/
MID	MIDDLE	W/O
MIN MIRR	MINIMUM MIRROR	WD WF
	MIRROR	WHS
MO	MASONRY OPENING	WL WO
MOD MTRL	MODULE MATERIAL	-
MULT	MULTIPLE	WPM
N/A		WR WT
N/P NIC	NOT PROVIDED NOT IN CONTRACT	WWM
NTS	NOT TO SCALE	
ø OC	DIAMETER ON CENTER	
	ON CENTER OUSIDE DIAMETER	

	OVERHANG
	ORDINARY MOMENT
	FRAME
	OPENING
	OPPOSITE
	OPEN WEB STEEL JOIST
	OPEN WEB WOOD JOIST
	POWDER ACTUATED
	FASTENER
	PERFORATED
	PERPENDICULAR
	PLASTICITY INDEX
	PLATE PLUMBING
	PLYWOOD
	PANEL
3	PREFABRICATED
	POUNDS PER SQUARE
	FOOT
	POUNDS PER SQUARE
	PARALLEL STRAND
	LUMBER
	PRESSURE TREATED
	POST TENSIONED
	PURLINS
	REINFORCED CONCRETE
	REFERENCE REINFORCEMENT
	REPLACE
	REQUIRED
	REQUIRED
	RETAINING
	REVISION
	ROOF ROOFING
	REQUEST FOR
	INFORMATION
	ROOM
	ROUGH OPENING
	SEE ARCHITECTUAL DRAWINGS
	SCHEDULE
	SECTION
	SHEATHING
	SIMIILAR
	SPECIAL MOMENT
	FRAME
	SHEET METAL SCREWS STRUCTURAL NOTE
	SLAB ON GRADE
	SPECIFICATIONS
	SPRUCE PINE FIR
	SOLE PLATE NAILING
	SQUARE
	SQUASH STAINLESS STEEL
	STAINLESS STEEL
	STANDARD
	STIFFENER
	STIRRUP
_	STEEL
Г	STRUCTURAL
	SELF TAPPING SCREWS
	SHEAR WALL
	SYMMETRICAL
	TOP AND BOTTOM
	TOUNGE AND GROOVE
	TO BEAM ABOVE
	TO BEAM BELOW TEMPORARY
	TO FLOOR ABOVE
	TO FLOOR BELOW
	THICKNESS
	THREADED
	THROUGH TOP OF BEAM
	TOP OF FOOTING
	TOP OF JOIST
	TOP OF STEEL
	TOP OF TRUSS
	TOP OF WALL
	TOP PLATE
V	TRANSVERSE TYPICAL
	UNLESS NOTED
	OTHERWISE
	UNREINFORCED
	MASONRY UNIT
	VERTICAL VERIFY IN FIELD
	WIDE
	WITH
	WITHOUT
	WOOD
	WIDE FLANGE
	WELDED HEADED STUD WIND LOAD
	WHERE OCCURS
	WATER PROOF
	MEMBRANE
	WEATHER RESISTANCE
	WEIGHT
	WEIGHT
	WEIGHT

3

OUSIDE DIAMETER

EDGE DISTANCE

GENERAL NOTES

- FIELD VERIFICATION: FIELD VERIFY EXISTING CONDITIONS AND DIMENSIONS PRIOR TO CONSTRUCTION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) IN CASE OF DISCREPANCIES.
- 2. DESIGN INTENT: CONTRACT DOCUMENTS INDICATE DESIGN INTENT FORE STRUCTURE IN ITS COMPLETED STATE. THEY DO NOT INDICATE METHOD OF CONSTRUCTION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER), PRIOR TO PROCEEDING WITH WORK, IF DESIGN INTENT REQUIRES FURTHER CLARIFICATION.
- DEVIATIONS, MODIFICATIONS AND SUBSTITUTIONS TO APPROVED STRUCTURAL DRAWINGS: MUST BE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER) AND APPROVED BY GOVERNING CODE AUTHORITY. NO DEVIATION, MODIFICATION OR SUBSTITUTION WILL BE ACCEPTED VIA SHOP DRAWING REVIEW.
- PROCEDURES OF CONSTRUCTION: CONTRACTOR IS RESPONSIBLE FOR PROCEDURES OF CONSTRUCTION COMPLYING WITH NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. SITE VISITS (INCLUDING STRUCTURAL OBSERVATION) BY ARCHITECT (STRUCTURAL ENGINEER) DO NOT CONSTITUTE SUPERVISIONS OF METHODS OF CONSTRUCTION.
- PROTECTION OF UTILITIES: LOCATE EXISTING UTILITIES, INCLUDING THOSE NOT SHOWN ON CONTRACT DOCUMENTS, AND PROTECT THEM FROM DAMAGE. CONTRACTOR BEARS EXPENSE OF REPAIR OR REPLACEMENT OF UTILITIES IN CONJUNCTION WITH EXECUTION OF WORK.
- EXCAVATIONS: PROTECT STRUCTURE, ADJACENT STRUCTURES, ADJACENT PROPERTIES, STREETS, AND UTILITIES DURING EXCAVATION UTILIZING LAGGING. SHORING, UNDERPINNING AT SIDES AND RELATED PROCEDURES AS MAY BE REQUIRED. PROVIDE NECESSARY SUPPORTS FOR SOIL EXCAVATIONS. CONTRACTOR AND AFFECTED TRADES SHALL REFER TO GEOTECHNICAL REPORT FOR MORE INFORMATION.
- PROTECTION OF STRUCTURE: PROVIDE NECESSARY MEASURES TO PROTECT STRUCTURE DURING EXECUTION OF WORK.
- D. CONTRACTOR PROPOSED REVISIONS: WHERE A REVISION OF STRUCTURAL DESIGN OR CONNECTION IS PROPOSED BY CONTRACTOR TO ACCOMMODATE CONSTRUCTION TOLERANCES, CONSTRUCTION SEQUENCE AND/OR DIMENSION MODIFICATIONS, CONTRACTOR SHALL RETAIN A STRUCTURAL ENGINEER LICENSED IN STATE OF CALIFORNIA TO PERFORM DESIGN. SUBMIT STAMPED AND SIGNED DESIGN DRAWINGS AND CALCULATIONS TO THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND THE GOVERNING CODE AUTHORITY FOR APPROVAL.
- ERECTION PLANS: DETERMINE PHASES OF WORK REQUIRING ERECTION PLANS ACCORDING TO APPLICABLE SAFETY REGULATIONS. MAINTAIN CERTIFIED COPIES OF ERECTION PLANS AT SITE DURING CONSTRUCTION.
- SHORING, BRACING, AND OTHER TEMPORARY SUPPORTS: DESIGN AND ERECT SHORING, BRACING, AND OTHER TEMPORARY SUPPORTS WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH AND AS REQUIRED FOR SAFE ERECTION. ENSURE FLOOR, ROOF, AND WALL MEMBERS ARE SECURELY SHORED AND BRACED DURING CONSTRUCTION. PROVIDE SHORING AT ELEVATED BEAMS AND SLABS SUPPORTING CONCRETE OR MASONRY WALLS DURING AND AFTER WALL POUR UNTIL WALL ATTAINS DESIGN STRENGTH.
- G. <u>TEMPORARY LOADING:</u> ENSURE CONSTRUCTION LOADS DO NOT EXCEED INDICATED DESIGN LIVE LOAD VALUES. NOTIFY AFFECTED SUB-CONTRACTOR TRADES OF THESE DESIGN LOAD LIMITS.
- H. FABRICATION, SHIPMENT, AND ERECTION OF STRUCTURAL STEEL: ENSURE STRESSES OCCURRING DURING FABRICATION, SHIPMENT, AND ERECTION OF STRUCTURAL STEEL ARE TEMPORARY AND ARE LESS THAN DESIGN AND ALLOWABLE STRESS CAPACITIES OF INDIVIDUAL MEMBERS. DO NOT IMPAIR FULL DESIGN AND LOAD CARRYING CAPACITY OF MEMBERS DUE TO FABRICATION, SHIPMENT, OR ERECTION. CONTRACTOR IS RESPONSIBLE FOR CONTROLLING ERECTION SEQUENCE, ERECTION PROCEDURE, TEMPERATURE DIFFERENTIALS AND WELD SHRINKAGE TO MINIMIZE RESIDUE STRESSES. PROVIDE ADDITIONAL MATERIALS FOR THE ERECTION OF STRUCTURAL STEEL SUCH AS TEMPORARY BRACING AND GUY CABLES AS MAY BE NECESSARY AT NO ADDITIONAL COST. REMOVE THESE MATERIALS UNLESS APPROVED IN WRITING BY OWNER. DO NOT TIGHTEN BOLTS IN TYPICAL BEAM TO COLUMN CONNECTIONS FOR ERECTION PURPOSES.
- SECURING REINFORCING STEEL, DOWELS, ANCHOR BOLTS AND EMBEDS: FIRMLY SUPPORT AND ACCURATELY PLACE COMPLYING WITH ACI STANDARDS PRIOR TO CASTING CONCRETE OR GROUT IN MASONRY WALLS. USE TIES AND SUPPORT BARS IN ADDITION TO REINFORCING STEEL SHOWN WHERE NECESSARY. NO WELDING OR REINFORCING STEEL, INCLUDING TACK WELDING, IS PERMITTED UNLESS OTHERWISE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER). PROVIDE PLASTIC OR PLASTIC COATED CHAIRS AND SPACERS WHEN RESTING ON EXPOSED SURFACES.
- 5. <u>COORDINATION RESPONSIBILITY:</u> CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF WORK INCLUDING THAT OF SUB-CONTRACTOR TRADES.
- 6. SUBMITTALS: SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) AS INDICATED ON STRUCTURAL DRAWINGS AND SPECIFICATIONS. GENERAL CONTRACTOR SHALL REVIEW SUBMITTAL FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS PRIOR TO SUBMISSION.
- A. REQUEST FOR INFORMATION (RFI) SUBMITTALS: ACCOMPANY RFI'S WITH PARTIAL STRUCTURAL FOUNDATION OR FRAMING PLANS SHOWING LOCATION IN QUESTION AND AFFECTED STRUCTURAL MEMBERS. COPY PARTIAL PLAN FROM STRUCTURAL DRAWINGS AND INDICATE GRID LINE LOCATIONS AND FLOOR LEVEL. ALSO PROVIDE PROPERLY DRAWN ENGINEERING SKETCHES ILLUSTRATING ISSUES AND CONTRACTOR'S PROPOSED SOLUTIONS. PHOTOGRAPHS ARE NOT ACCEPTABLE SUBSTITUTES TO ENGINEERING SKETCHES.
- CONTRACT DOCUMENTS USE: REVIEW CONTRACT DOCUMENTS IN THEIR ENTIRETY BEFORE PERFORMING STRUCTURAL RELATED WORK AND BEFORE DEVELOPING SHOP DRAWINGS. BRING DISCREPANCIES TO THE IMMEDIATE ATTENTION OF ARCHITECT (STRUCTURAL ENGINEER) BEFORE STARTING WORK.
- A. SCALING OF DRAWINGS: NOT PERMITTED.
- B. ADDITIONAL STRUCTURAL REQUIREMENTS: SEE SPECIFICATIONS.
- C. BUILDING GEOMETRY: SEE ARCHITECTURAL DRAWINGS FOR BUILDING GEOMETRY INCLUDING, BUT NOT LIMITED TO, TOP OF FLOOR AND ROOF ELEVATIONS; DEPRESSIONS; SLOPES; CURBS; DRAINS; TRENCHES; SLAB AND DECK EDGE LOCATIONS; WALL OVERALL DIMENSIONS; AND SIZE AND LOCATIONS OF OPENINGS IN FLOORS, ROOF AND WALLS.
- D. NON-STRUCTURAL ITEMS REQUIRING SPECIAL PROVISIONS: SEE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRING SPECIAL PROVISIONS DURING CONSTRUCTION. THEY INCLUDE, BUT ARE NOT LIMITED TO, NON-STRUCTURAL WALLS; SIZE AND LOCATIONS OF OPENINGS AND SLEEVES PENETRATING STRUCTURE; SIZE AND LOCATION OF CONCRETE CURBS AND PADS; AND SIZE AND LOCATION OF PIPING, DUCTWORK, AND EQUIPMENT ANCHORAGES MOUNTED OR SUSPENDED FROM STRUCTURE. VERIFY EXACT SIZE AND LOCATION OF EQUIPMENT WITH EQUIPMENT MANUFACTURER.
- MATERIALS: FURNISH AND INSTALL IN COMPLIANCE WITH LEGALLY CONSTITUTED PUBLIC AUTHORITIES HAVING JURISDICTION INCLUDING COUNTY AND LOCAL ORDINANCES AND SAFETY ORDERS OF STATE INDUSTRIAL ACCIDENT COMMISSION, OSHA.
- PENETRATIONS, EMBEDMENT, AND OPENINGS IN STRUCTURAL MEMBERS: NO PENETRATION, EMBEDMENT, OPENING, SLEEVE, PIPE, OR CONDUIT SHALL OCCUR IN STRUCTURAL MEMBERS INCLUDING FOOTINGS, SLABS, WALLS, COLUMNS, AND BEAMS UNLESS SPECIFICALLY SHOWN OR INDICATED ON STRUCTURAL DRAWINGS.
- 10. TYPICAL DETAILS: DETAILS ON SD SERIES SHEETS ARE APPLICABLE THROUGHOUT PROJECT WHEREVER THE DESCRIBED CONDITION OCCURS AND MAY OR MAY NOT BE SPECIFICALLY REFERENCED ON STRUCTURAL DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE DETAILS AND UNDERSTANDING EXTENT OF THEIR APPLICATION PRIOR TO PERFORMING WORK.
- . WATERPROOFING & DRAINAGE: WATERPROOFING AND DRAINAGE IS OUTSIDE THE STRUCTURAL ENGINEER'S SCOPE, EXPERIENCE, AND PROFESSIONAL EXPERTISE. WE RECOMMEND THE OWNER HIRE A SEPARATE SPECIALIZED DESIGN PROFESSIONAL TO ADDRESS WATERPROOFING AND DRAINAGE REQUIREMENTS. IF A SPECIALIZED DESIGN PROFESSIONAL IS NOT HIRED, OWNER AND CONTRACTOR ASSUME RESPONSIBILITY OF ALL WATERPROOFING & DRAINAGE REQUIREMENTS.

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	REVISION SCHEDUL	
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REINFORCING STEEL

- REINFORCING STEEL: A. ALL BARS, U.N.O.: ASTM A615, GRADE 60 B. BARS TO BE WELDED: ASTM A706, GRADE 60

C. SPIRAL REINFORCING: ASTM A82, GRADE 60

- C. ADDITIONAL REQUIREMENTS FOR BARS, EXCLUDING TIES, IN DUCTILE MOMENT RESISTING FRAMES AND BOUNDARY ELEMENTS IN SHEAR WALLS: NO ADDITIONAL REQUIREMENTS IF ASTM A706, GRADE 60 BARS USED. ASTM615, GRADE 60 BARS ARE PERMITTED PROVIDED ACTUAL YIELD STRENGTH BASED ON MILL TESTS DOES NOT EXCEED SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 PSI (RETESTS SHALL NOT EXCEED THIS VALUE BY MORE THAN AN ADDITIONAL 3,000 PSI) AND RATIO OF ACTUAL ULTIMATE TENSILE STRESS TO ACTUAL TENSILE YIELD STRENGTH IS NOT LESS THAN 1.25.
- WIRE AND SPIRAL REINFORCING: A. SMOOTH WELDED WIRE FABRIC (W.W.F.): ASTM A185, FY=65 KSI, FLAT SHEETS ONLY. DO NOT USE ROLLED MESH. LAP SPACES (1 FOOT MINIMUM). OFFSET LAPS IN ADJACENT SHEETS TO AVOID CONTINUOUS LAPS. B. DEFORMED WIRE STIRRUPS (D4 AND LARGER ONLY): ASTM A497, FY=65 KSI.
- SHOP DRAWINGS: ACI 315, PART B. SHOW REINFORCING STEEL PLACEMENT INCLUDING SIZES, QUANTITIES, SPACING, CLEARANCES, SPLICE LOCATIONS, LAP LENGTHS, AND CONCRETE COVERAGE AND SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER). PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING SHOP DRAWINGS IF INSUFFICIENT CLEAR DISTANCES BETWEEN REINFORCING STEEL AND OTHER CONGESTION IS ENCOUNTERED. NOTIFY SPECIAL INSPECTOR OF ADJUSTMENTS MADE FORM APPROVED CONTRACT DOCUMENTS WHICH ARE INDICATED ON ACCEPTED SHOP DRAWINGS THAT FACILITATE FIELD PLACEMENT OF REINFORCING STEEL AND CONCRETE.
- SPLICE LOCATIONS: SPLICE #5 BARS AND LARGER ONLY AT LOCATIONS INDICATED. IF ADDITIONAL SPLICE LOCATIONS ARE PROPOSED, PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING SHOP DRAWINGS. A. SPLICES IN WALLS: LOCATE SPLICES IN HORIZONTAL BARS AT WELL-STAGGERED LOCATIONS. DO NOT SPLICE VERTICAL BARS EXCEPT AT HORIZONTAL SUPPORTS SUCH AS FLOOR AND ROOF DIAPHRAGMS.
- MINIMUM CLEARANCES BETWEEN PARALLEL REINFORCING STEEL INCLUDING DISTANCE BETWEEN SETS OF SPLICED BARS: 1" OR 1 db, WHICHEVER IS GREATER. 1 1/2" OR 1¹/₂ db WHICHEVER IS GREATER, AT COLUMNS, PIERS, AND PILASTERS ONLY, FOR BUNDLED BARS, MINIMUM CLEAR DISTANCES BETWEEN UNITS OF BUNDLED BARS SHALL BE SAME AS SINGLE BARS EXCEPT BAR DIAMETER IS DERIVED FROM EQUIVALENT TOTAL AREA OF BUNDLE.
- DOWELS AT CONSTRUCTION JOINTS: PROVIDE DOWELS MATCHING SIZE AND QUANTITY OF REINFORCING STEEL INTERRUPTED AT CONSTRUCTION JOINTS, UNLESS DETAILED OTHERWISE.
- PLACEMENT OF BARS IN WALLS: PLACE VERTICAL BARS CLOSEST TO WALL SURFACES AT CURTAINS CONTAINING VERTICAL AND HORIZONTAL BARS OF THE SAME SIZE, IN CURTAINS WHICH VERTICAL AND HORIZONTAL BARS ARE OF DIFFERENT SIZES OR SPACING, PLACE LAYER WITH MOST STEEL AREA CLOSEST TO NEAR WALL SURFACE.
- BARS TERMINATING AT WALLS, COLUMNS, BEAMS, AND FOUNDATIONS: EXTEND BARS O WITHIN 2" (3" AT CONCRETE POURED AGAINST EARTH) OF FAR FACE OF WALL, COLUMN, BEAM OR FOUNDATION AND PROVIDE STANDARD ACI 90-DEGREE HOOK UNLESS DETAILED OTHERWISE
- 10. BARS INTERRUPTED BY STRUCTURAL STEEL: EXTEND BARS TO WITHIN 2" OF STEEL FACE AND PROVIDE STANDARD ACI 90-DEGREE HOOK UNLESS DETAILED OTHERWISE.
- . WELDING: AWS D1.4, EXCEPT AS MODIFIED BY APPLICABLE CODE STANDARD 19-1. SEE RGA #3-77 OF CITY OF LOS ANGELES "R" BOOK FOR ADDITIONAL REQUIREMENTS IF GOVERNING CODE AUTHORITY IS CITY OF LOS ANGELES DEPARTMENT OF BUILDING AND
- SAFETY. A. ACCEPTABLE REINFORCING STEEL FOR WELDING ASTM A706: IF WELDING OF REINFORCING STEEL OTHER THAN A706 IS DESIRED, SUBMIT PROPOSED PROCEDURE, INDICATING CONFORMANCE TO APPLICABLE CODE AND REQUIREMENTS OF GOVERNING CODE AUTHORITY, TO ARCHITECT (STRUCTURAL ENGINEER) FOR ACCEPTANCE AND TO GOVERNING CODE AUTHORITY FOR APPROVAL PRIOR TO EXECUTION.
- B. WELDER CERTIFICATION: GOVERNING CODE AUTHORITY.
- 12. BENDING: BEND COLD UNLESS OTHERWISE ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER). DO NOT FIELD-BEND REINFORCING STEEL BARS EMBEDDED IN CONCRETE UNLESS OTHERWISE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER)

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13. LAP SPLICES: PROVIDE CLASS B SPLICES UNLESS INDICATED OTHERWISE.

	3	I
CONVENTIONAL WOOD FRAMING I	REQUIREMENTS - CBC TABLE 2304.10.2	
CONNECTION	NAILING	
BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATES, TOENAIL	(3) 8d COMMON , (3) 3" x 0.131" NAILS, OR (3) 3" 14 GAGE STAPLES	
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT WALL TOP PLATES, TOENAIL, EACH END	(2) 8d COMMON , (2) 3" x 0.131" NAILS, (2) 3" 14 GAGE STAPLES	MODEL
BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT WALL TOP PLATES, END NAIL	(2) 16d COMMON , (3) 3" x 0.131" NAILS, (3) 3" 14 GAGE STAPLES	STHD14
FLAT BLOCKING TO TRUSS/WEB FILLER, FACE NAIL	16d COMMON , 3" x 0.131" NAILS, 3" 14 GAGE STAPLES @ 6" O.C.	HDU4
CEILING JOIST TO TOP PLATE, EACH JOIST, TOENAIL	(3) 8d COMMON , (3) 3" x 0.131" NAILS, (3) 3" 14 GAGE STAPLES, ⅔6" CROWN	HDU5 HDU8
CEILING JOIST, LAPS PARTITION, FACE NAIL - TABLE 2308.7.3.1	(3) 16d COMMON , (4) 3" x 0.131" NAILS, (4) 3" 14 GAGE STAPLES, 7/6" CROWN	HDU11
CEILING JOISTS TO PARALLEL RAFTERS, FACE NAIL - TABLE 2308.7.3.1	PER TABLE 2308.7.3.1	HDU14
COLLAR TIE TO RAFTER, FACE NAIL	(3) 10d COMMON, (4) 3" x 0.131" NAILS, OR (4) 3" 14 GAGE STAPLES	SSTB20
RAFTER OR ROOF TRUSS TO PLATE, TOENAIL - TABLE 2308.7.5	(3) 10d COMMON, (4) 3" x 0.131" NAILS, OR (4) 3" 14 GAGE STAPLES	SSTB24
ROOF RAFTER TO 2x RIDGE BEAM, END NAIL	(2) 16d COMMON, (3) 3" x 0.131" NAILS, OR (3) 3" 14 GAGE STAPLES	SSTB28
ROOF RAFTER TO 2x RIDGE BEAM, TOE NAIL	(3) 10d COMMON, (4) 3" x 0.131" NAILS, OR (4) 3" 14 GAGE STAPLES	SB1x30
STUD TO STUD (NON-BRACED WALL PANELS), 24" O.C. FACE NAIL	16d COMMON (3 ½"x 0.162")	
STUD TO STUD (NON-BRACED WALL PANELS), 16" O.C. FACE NAIL	3" x 0.131" NAILS, (3) 3" 14 GAGE STAPLES	A34
STUD TO STUD AT INTERSECTING CORNER (BRACED), 16" O.C. FACE NAIL	16d COMMON (3 ½"x 0.162")	A35
STUD TO STUD AT INTERSECTING CORNER (BRACED), 12" O.C. FACE NAIL	3" x 0.131" NAILS, (3) 3" 14 GAGE STAPLES	LTP4
BUILT-UP HEADER (2" TO 2"), 16" O.C. EACH EDGE, FACE NAIL	16d COMMON (3 ½"x 0.162")	LIP5 LS50
CONTINUOUS HEADER TO STUD, TOENAIL.	(4) 8d COMMON	
TOP PLATE TO TOP PLATE, 16" O.C. FACE NAIL TOP PLATE TO TOP PLATE, 12" O.C. FACE	16d COMMON	MODEL
NAIL TOP PLATE TO TOP PLATE, AT END JOINTS,	3" x 0.131" NAILS, 3" 14 GAGE STAPLES	CS16
EACH SIDE OF END JOINT, FACE NAIL (MIN. 24" LAP SPLICE LENGTH EACH SIDE END JOINT)	(8) 16d COMMON, (12) 3" x 0.131" NAILS, (12) 3" 14 GAGE STAPLES	CS16
BOTTOM PLATE TO JOIST, RIM JOIST, OR BLOCKING AT NON-BRACED PANEL, 16" O.C. FACE NAIL	16d COMMON	CS14 CMSTC1
BOTTOM PLATE TO JOIST, RIM JOIST, OR BLOCKING AT NON-BRACED PANEL, 12" O.C. FACE NAIL	3" x 0.131" NAILS, 3" 14 GAGE STAPLES	CMST14
BOTTOM PLATE TO JOIST, RIM JOIST, OR BLOCKING AT BRACED PANEL, 16" O.C. FACE NAIL	(2) 16d COMMON, (4) 3" x 0.131" NAILS, (4) 3" 14 GAGE STAPLES	CMST1:
STUD TO TOP OR BOTTOM PLATE, TOENAIL	(4) 8d COMMON, (4) 3"x 0.131" NAILS, (4) 3" 14 GAGE STAPLES	8d COMM
STUD TO TOP OR BOTTOM PLATE, END NAIL	(2) 16d COMMON, (3) 3"x 0.131" NAILS, (3) 3" 14 GAGE STAPLES	10d COMMC
TOP OR BOTTOM PLATE TO STUD, END NAIL	(2) 16d COMMON, (3) 3"x 0.131" NAILS, (3) 3" 14 GAGE STAPLES	
TOP PLATES, LAP AND INTERSECTIONS, FACE NAIL. " BRACE TO EACH STUD AND PLATE, FACE	(2) 16d COMMON , (3) 3" x 0.131" NAILS, OR (3) 3" 14 GAGE STAPLES (2) 8d COMMON, (2) 3" x 0.131" NAILS, OR (2) 3"	PROPE
1" x 6" SHEATHING TO EACH BEARING,	(2) 8d COMMON, (2) 3" x 0.128" NAILS	1. <u>ANCHO</u> 1.1. <u>DR</u>
FACE NAIL. 1" x 8" AND WIDER SHEATHING TO EACH	(2) 8d COIVINION, (2) 3 × 0.128 NAILS (3) 8d COMMON, (3) 3" × 0.128" NAILS	THI
BEARING, FACE NAIL.	(3) 8d COMMON , (3) 3" x 0.131" NAILS, OR (3) 3"	ESF 1.2. SIN CO
RIM JOIST, BLOCKING TO TOP PLATE,	14 GAGE STAPLES 8d (2 1/2" x 0.131") AT 6" o/c, 3" x 0.131" NAILS AT	TO
TOENAIL. I" x 6" SUBFLOOR OR LESS TO EACH JOIST,	6" o/c, OR 3" 14 GAGE STAPLES AT 6" o/c (2) 8d COMMON	1.3. <u>ME</u>
FACE NAIL 2" SUBFLOOR TO JOIST OR GIRDER, BLIND	(2) 16d COMMON	1.3.1. 1.3.2.
2" PLANKS.	(2) 16d COMMON AT EACH BEARING	
BUILT-UP GIRDER AND BEAMS	20d COMMON AT 32" o/c, 3" x 0.131" NAILS AT 24" o/c, OR 3" 14 GAGE STAPLES AT 24" o/c AT, AT TOP AND BOTTOM, STAGGERED (2) 20d COMMON, (3) 3" x 0.131" NAILS, OR (3) 3"	1.3.3. 1.3.3.1.
LEDGER STRIP, EACH JOIST OR RAFTER,	14 GAGE STAPLES AT ENDS AND AT EACH SPLICE (3) 16d COMMON, (4) 3" x 0.131" NAILS, OR (4) 3"	1.4. WE PSI FIE
FACE NAIL	14 GAGE STAPLES (3) 16d COMMON, (4) 3" x 0.131" NAILS, OR (4) 3"	1.5. <u>WE</u> REI
BRIDGING TO JOIST, TOENAIL EACH END	14 GAGE STAPLES (2) 8d COMMON , (2) 3" x 0.131" NAILS, OR (2) 3"	2. FASTEN
BRIDGING TO JOIST, TOENAIL EACH EIND	14 GAGE STAPLES	2. <u>FASTER</u> 2.1. PO

	WC	OD HARDWARE NAILING SCHEE	OULE	
		HOLDOWNS		
		SIMPSON		USP
MODEL NAME	CAPACITY (LBS)	FASTENER SCHEDULE	APPLICATION	MODEL NAME
STHD14	3,500	(24) 10d Nails (0.148" x 3-¼")	HOLDOWN	
HTT4	4,455	(18) SD #10 1-½"	HOLDOWN	
HDU4	4,565	(10) ¼" x 2-½" SDS	HOLDOWN	
HDU5	5,645	(14) ¼" x 2-½" SDS	HOLDOWN	
HDU8	6,765	(20) ¼" x 2-½" SDS	HOLDOWN	
HDU11	9,335	(30) ¼" x 2-½" SDS	HOLDOWN	
HDU14	10,770	(36) ¼" x 2-½" SDS	HOLDOWN	
		ANCHOR BOLTS		
SSTB20	4,785	5%"	HOLDOWN ANCHOR	
SSTB24	5,790	5/8"	HOLDOWN ANCHOR	
SSTB28	11,645	7⁄8"	HOLDOWN ANCHOR	
SB1x30	13,090	1"	HOLDOWN ANCHOR	
		HARDWARE		
A34	465	(8) 8d Nails (0.131" x 1-½")	AT BLOCKING OR RIM	MPA1
A35	650	(12) 8d Nails (0.131" x 1-½")	AT BLOCKING OR RIM	MPA1
LTP4	625	(12) 8d Nails (0.131" x 1-½")	AT BLOCKING OR RIM	MP4F
LTP5	565	(12) 8d Nails (0.131" x 1-½")	AT BLOCKING OR RIM	MP4F
LS50	560	(8) 8d Nails (0.131" x 1-½")	AT BLOCKING OR RIM	MP5
	-	STRAPS		
MODEL NAME	CAPACITY (LBS)	FASTENER SCHEDULE	APPLICATION	MODEL NAME
CS16	1,705	(22) 8d Nails (0.131" x 2-½")	DIRECTLY TO TIMBER	RS150
CS16	1,705	(22) 8d Nails (0.131" x 2-½")	THRU PLYWOOD	RS150
CS14	2,490	(30) 8d Nails (0.131" x 2-½")	DIRECTLY TO TIMBER	
CMSTC16	4,690	(50) 10d Nails (0.148" x 3-¼")	DIRECTLY TO TIMBER	
CMST14	6,475	(66) 10d Nails (0.148" x 2-½")	DIRECTLY TO TIMBER	
CMST12	9,215	(86) 10d Nails (0.148" x 2-½")	DIRECTLY TO TIMBER	
		SHEAR WALLS		
NAIL TYPE	SHEAR WALL TYPE	NAIL SIZE		
8d COMMON	SW 2, 3, 4, 6	2-1/2" x .131"		
10d COMMON	SW 2B	2-1/4" x .148"		

PROPRIETARY ANCHORAGES AND FASTENERS

ANCHORAGES

- 1.1. DRILL AND EPOXY ANCHORS: SIMPSON SET-XP EPOXY ADHESIVE SYSTEM USING THREADED STEEL RODS CONFORMING TO ASTM-F1554, GRADE 36, OR REINFORCING STEEL CONFORMING TO ASTM A615 OR A706, GRADE 60, COMPLYING WITH ICC ES ESR 2508. INSTALLERS TO BE CERTIFIED BY MANUFACTURER.
- 1.2. SIMPSON 3G EPOXY ADHESIVE SYSTEM USING THREADED STEEL RODS CONFORMING TO ASTM-F1554, GRADE 36, OR REINFORCING STEEL CONFORMING TO ASTM A615 OR A706, GRADE 60, COMPLYING WITH ICC ES ESR 4057. INSTALLERS TO BE CERTIFIED BY MANUFACTURER.

1.3. MECHANICAL ANCHORS:

- 1.3.1. HILTI KWIK BOLT-III CARBON STEEL EXPANSION ANCHORS COMPLYING WITH ICC ESR-1385.
- HILTI KWIK BOLT-TC CARBON STEEL EXPANSION ANCHORS COMPLYING WITH 1.3.2. ICC ES REPORT NO. 1917 1.3.3. SIMPSON TITEN HD ANCHORS STEEL SCREW ANCHORS COMPLYING WITH ICC
- ESR-2713. 1.3.3.1. TITEN HD ANCHORS SHALL BE STAINLESS STEEL IN EXPOSED WET ENVIRONMENTS.
- 1.4. WELDED SHEAR STUDS: NELSON 3SL FLUX FILLED, HEADED STUD ANCHORS, 60,000 PSI MINIMUM ULTIMATE TENSILE STRENGTH, AUTOMATICALLY END WELDED IN FIELD CONFIRMING TO ASTM A108 AND COMPLYING WITH ICC ES REPORT NO. 2856.
- 1.5. <u>WELDED DEFORMED ANCHORS:</u> NELSON D2L, COLD ROLLED, DEFORMED STEEL REINFORCING BARS CONFORMING TO ASTM A496 AND COMPLYING WITH ICC ES REPORT NO. 2907.

- POWDER ACTUATED FASTENERS: HILTI XCP, COMPLYING WITH CURRENT ICC ES 2.1. REPORT NO. 2379. PROVIDE APPROPRIATE WASHER BETWEEN FASTENER HEAD AND LIGHT GAUGE METAL OR WOOD SURFACE. 2.1.1. POWER-DRIVEN FASTENERS SHALL NOT BE USED TO ANCHOR SILL PLATES EXCEPT AT INTERIOR NON-BEARING WALL NOT DESIGN AS SHEAR WALLS.
- 2.2. SELF-DRILLING METAL SCREWS (INDICATED "SCREWS" ON DRAWINGS): MINIMUM 0.292-INCH HEAD DIAMETER SELF-DRILLING/SELF-TAPPING STEEL SCREWS COMPLYING WITH ICC ES REPORT. MINIMUM YIELD STRESS, FY=33 KSI.
- 2.3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE HOT DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER. STAPLES SHALL BE OF STAINLESS STEEL. FASTENERS OTHER THAN NAILS, STABLES, TIMBER RIVETS, WOOD SCREWS AND LAG SCREWS SHALL BE PERMITTED TO BE OF MECHANICALLY DEPOSITED ZINC-COATED STEEL WITH COATING WEIGHTS IN ACCORDANCE WITH ASTM B695, CLASS 55 MINIMUM.
- 2.3.1. EXCEPTION: PLAIN CARBON STEEL FASTENERS, INCLUDING NUTS AND WASHERS, IN SBX/DOT AND ZINC BORATED PRESERVATIVE WOOD IN AN INTERIOR, DRY ENVIRONMENT SHALL BE PERMITTED.
- INSTALLATION: SEE MANUFACTURER'S WRITTEN INSTRUCTIONS AND REFERENCED ICC ES REPORT
- 4. TESTING FOR DRILL AND EPOXY ANCHORS: SPECIAL INSPECTION: SPECIAL INSPECTOR WILL PERFORM CONTINUOUS SPECIAL INSPECTION DURING INSTALLATION.
- MATERIALS NOT TO BE PENETRATED BY FASTENERS OR ANCHORAGES POST-TENSIONED CONCRETE AND PRECAST, PRESTRESSED CONCRETE UNLESS SPECIFICALLY DETAILED HEREIN OR AS ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER). WHEN INSTALLATION IS PERMITTED, LOCATE PRESTRESSING AND POST-TENSIONED TENDONS ACCURATELY PRIOR TO INSTALLATION.
- DRILLING HOLES IN EXISTING CONCRETE OR MASONRY FOR ANCHORAGES: USE NON-PNEUMATIC, ROTARY HAMMER TOOLS WITH ANSI COMPLIANT NON-REBAR CUTTING DRILL BITS TO DRILL HOLES OF PROPER TOLERANCES. LOCATE EXISTING REBAR INCLUDING PRESTRESSING AND POST-TENSIONING TENDONS USING NON-HAZARDOUS, NONDESTRUCTIVE METHODS WITH ACCURATE LOCATION TOLERANCES (PLUS OR MINUS 2" INCH PRIOR TO DRILLING HOLES TO AVOID CUTTING OR DAMAGING. HOLES SHALL BE THOROUGHLY CLEANED PER MANUFACTURERS WRITTEN RECOMMENDATIONS PRIOR TO INSTALLATION OF ANCHORAGES.
- DELETERIOUS MATERIALS: KEEP ANCHORAGES, INCLUDING HOLES FOR DRILL AND EPOXY ANCHORS AND MECHANICAL ANCHORS, FREE OF DUST, GREASE, AND OTHER MATERIALS THAT IMPAIR BOND.
- 8. EXTERIOR PROPRIETARY ANCHORS & FASTENERS: 8.1. FOR EXTERIOR APPLICATIONS & CORROSIVE ENVIRONMENTS, ALL ANCHORS SHOULD BE GALVANIZED OR STAINLESS STEEL. CONTRACTOR TO VERIFY AND PROVIDE GALVANIZED OR STAINLESS STEEL ANCHORAGE PER MANUFACTURER REQUIREMENTS. CONTRACTOR TO IMMEDIATELY NOTIFY THE STRUCTURAL EOR OF ANY DISCREPANCIES, PRIOR TO THE START OF CONSTRUCTION
- 9. EXTERIOR ANCHOR BOLTS AND POST BASES SHALL BE GALVANIZED AND SHALL HAVE AT LEAST TWO GALVANIZED NUTS ABOVE THE BASE PLATE.

14 GAGE STAPLES

BRIDGING TO JOIST, TOENAIL EACH END (2) 8d COMMON , (2) 3" x 0.131" NAILS, OR (2) 3"

WOOD FRAMING

SAWN LUMBER: ALL STRUCTURAL SAWN LUMBER SHALL BE DOUGLAS FIR LARCH WITH 19% MAXIMUM MOISTURE CONTENT OF THE FOLLOWING GRADES, CONFORMING TO STANDARD GRADING BULES FOR WEST COAST LUMBER NO. 17, UNLESS NOTED OTHERWISE. THE LUMBER GRADES AS SPECIFIED BELOW MEET MINIMUM REQUIREMENTS:

LUMBER GRADES	
CONDITION	GRADE
PLATES & BLOCKING	STANDARD OR BETTER
STUDS TO 10'-0" IN HEIGHT	STANDARD OR BETTER
STUDS OVER 10'-0" IN HEIGHT	#2
2x RAFTER JOISTS	#2
4x6 THROUGH 4x12 BEAMS, HEADER & POSTS	#2
4x14 BEAMS, HEADERS & POSTS	#1
4x4 POSTS, HEADERS	#2
6x AND LARGER POSTS, BEAMS, STRINGERS	#1

- GRADE STAMPS: WHERE POSSIBLE ALL LUMBER GRADE STAMPS SHALL REMAIN ON LUMBER AFTER INSTALLATION. CONVENTIONAL LUMBER SHALL MEET DOC PS 20 REQ.
- PRESSURE TREATED LUMBER: ALL EXPOSED EXTERIOR WOOD AND WOOD BEARING ON CONCRETE OR MASONRY SHALL BE PRESSURE TREATED FIR, ALL NAILS TO PLATES TREATED W/ BORATE MAY BE STANDARD NAILS, FOR ALL OTHER PRESSURE TREATED PLATES, USE HOT DIP GALVANIZED NAILS.
- PLYWOOD/OSB: EACH WOOD-BASED STRUCTURAL-USE PANEL USED FOR DIAPHRAGM CONSTRUCTION SHALL BE IDENTIFIED BY A REGISTERED STAMP OR BRAND OF AN ICC-APPROVED COMPLIANCE ASSURANCE AGENCY.WOOD-BASED STRUCTURAL-USE PANELS SHALL MEET THE REQUIREMENTS OF DOC PS 1 OR PS 2. ALL PANELS SHALL BE GLUED WITH EXTERIOR TYPE GLUE MEETING APA SPECIFICATIONS. PANELS PERMANENTLY EXPOSED TO THE OUTDOORS SHALL BE EXTERIOR TYPE.
- METAL CONNECTORS: ALL METAL CONNECTORS SHALL BE THOSE MANUFACTURED BY SIMPSON STRONG TIE OR USP LUMBER CONNECTORS. THE NAILS FOR THESE CONNECTORS SHALL BE AS SPECIFIED BY THE MANUFACTURERS FOR CAPACITY OF THE HARDWARE. ALL CALLOUTS REFER TO SIMPSON PRODUCT CODES AND NAMES. REFER TO CROSS REFERENCE TABLES PROVIDED BY USP IN THEIR PRODUCT CATALOGS.
- FIRE STOPS: PROVIDE FIRE STOPS AT ALL INTERSECTIONS OF STUD WALLS AT FLOOR, CEILING AND ROOF. FIRE STOPS SHALL BE 2X NOMINAL THICKNESS OF WOOD AND SHALL BE THE FULL WIDTH OF THE ENCLOSED SPACE. PLACE FIRESTOPS AT A MAXIMUM SPACING OF 10'-0" IN THE VERTICAL DIRECTION. PROVIDE 2x FIRE STOPS IN ALL FURRED SPACES, VERTICAL AND HORIZONTAL, AND AT A MAXIMUM SPACING OF 10'-0" IN EACH DIRECTION AND AT THE SAME LINES AS FIRE STOPS IN ADJACENT STUD WALLS.
- BOLT HOLES: IN WOOD SHALL BE 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER . ALL BOLTS SHALL HAVE A STANDARD CUT WASHER UNDER HEAD AND NUT UNLESS NOTED OTHERWISE.
- BOLTS: ALL BOLTS USED FOR WOOD CONNECTIONS SHALL BE ASTM A307, U.N.O. ALL NUTS AND BOLTS SHALL BE RE-TIGHTENED PRIOR TO THE APPLICATION OF SHEATHING, PLASTER, ETC.
- NOTCHING & CUTTING: STRUCTURAL MEMBERS SHALL NOT BE CUT FOR PIPES, ETC. UNLESS SPECIFICALLY DETAILED. NOTCHING OF HORIZONTAL STRUCTURAL MEMBERS SHALL CONFORM TO THE BUILDING CODE. NOTCHING AND BORING OF STUDS AND TOP PLATES SHALL CONFORM TO THE BUILDING CODE.
- 10. JOIST BLOCKING: PROVIDE 2x BLOCKING BETWEEN JOISTS AND RAFTERS AT ALL BEARING SUPPORTS U.N.O. CROSS BRIDGING OR SOLID BLOCKING SHALL BE PROVIDED AT 8'-0" O.C. MAXIMUM FOR ALL JOISTS UNLESS BOTH EDGES ARE HELD IN LINE FOR THEIR ENTIRE LENGTH.
- 11. JOIST HANGERS: FOR I-JOISTS, PROVIDE SIMPSON "IUS" HANGER. FOR CONVENTIONAL JOIST, USE SIMPSON "LUS" HANGER, OR EQUIVALENT.
- 12. BEAM BEARING: ALL BEAMS TO BE SUPPORTED WITH FULL BEARING UNLESS NOTED OTHERWISE 13. CONVENTIONAL FRAMING: ALL CONVENTIONAL FRAMED PORTIONS OF THE STRUCTURE
- ARE TO BE CONSTRUCTED PER CBC SECTION 2308. 14. WALLS ON WOOD FLOOR: PROVIDE SINGLE FLOOR JOIST BELOW NON-BEARING,
- PARALLEL WALLS 10'-0" OR LONGER. 15. FINGER JOINTED STUDS: IT IS STRUCTURALLY ACCEPTABLE TO USE STRUCTURAL GLUED (FINGER-JOINTED) LUMBER. ALL FINGER-JOINTED LUMBER MUST BE "CER EXT JNTS" AND CONFORM WITH THE WWPA'S GLUED PRODUCTS PROCEDURES AND QUALITY CONTROL. FINGER-JOINTED LUMBER IS TO BE STAMPED WITH "CER EXT JNTS" AND MAY BE USED INTERCHANGEABLE WITH ANY SOLID-SAWN LUMBER PRODUCT OF THE SAME SPECIES AND GRADES. PLEASE REFER TO LUMBER SPECIFICATION IN THE STRUCTURAL GENERAL NOTES AND CALCULATIONS.

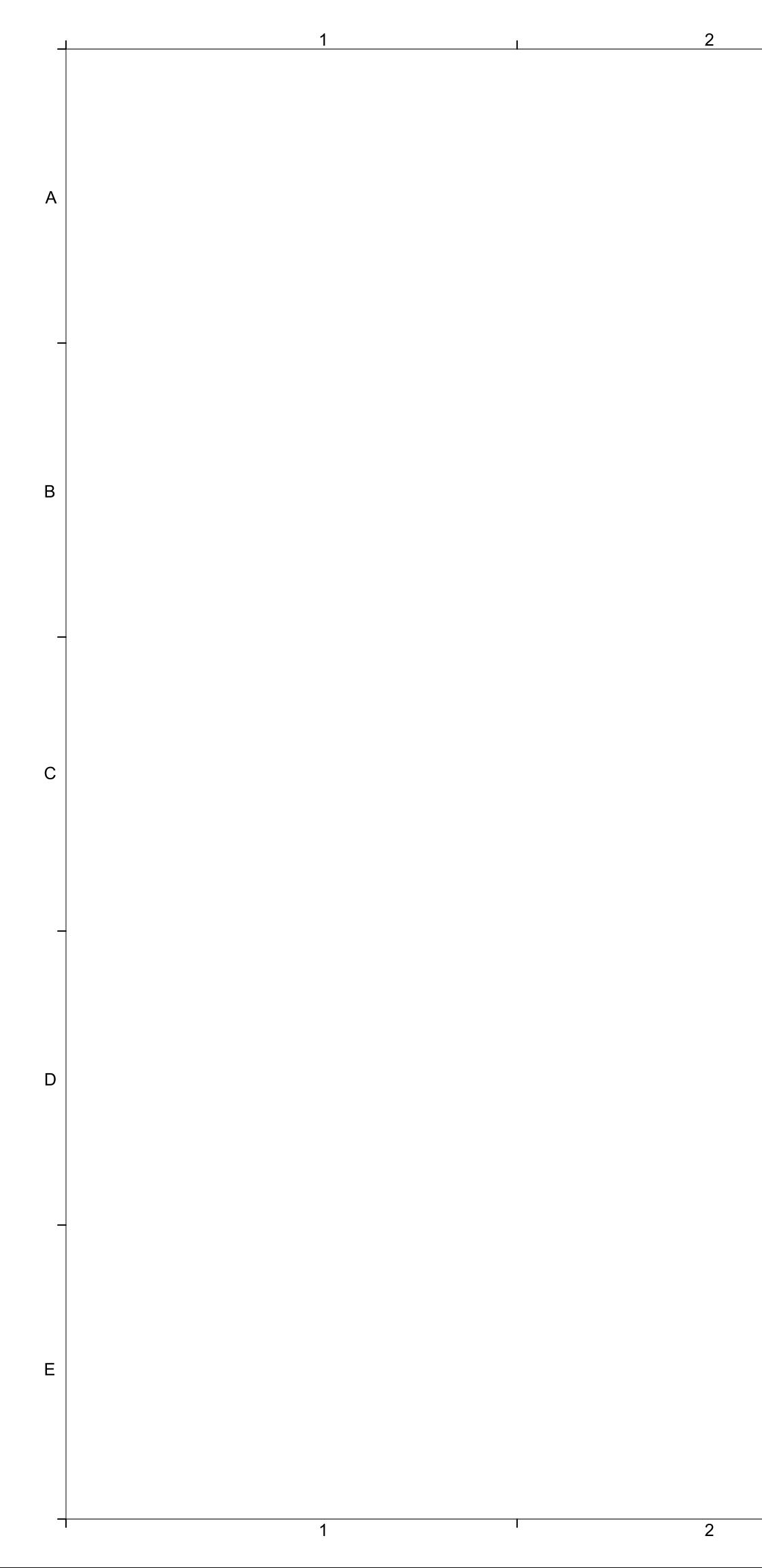
16. PLATE WASHERS AT NON-SILL PLATE APPLICATION: MINIMUM SIZE FOR SQUARE PLATE WASHERS: (REFER TO PLANS FOR SILL PLATE WASHER REQUIREMENTS.)

PLATE WASHERS	NON SILL PLATE APPLICATION		
BOLT SIZE	PLATE WASHER SIZE		
<u>1</u> " 2	<u>3</u> 16" x 2" x 2"		
5" 8	$\frac{1}{4}$ " x 2 $\frac{1}{2}$ " x 2 $\frac{1}{2}$ "		
<u>3</u> " 4	$\frac{5}{16}$ " x 2 $\frac{3}{4}$ " x 2 $\frac{3}{4}$ "		
<u>7</u> " 8	5/16" x 3" x 3"		
1"	³ / ₈ × 3 ½ × 3 ½		

NAILS

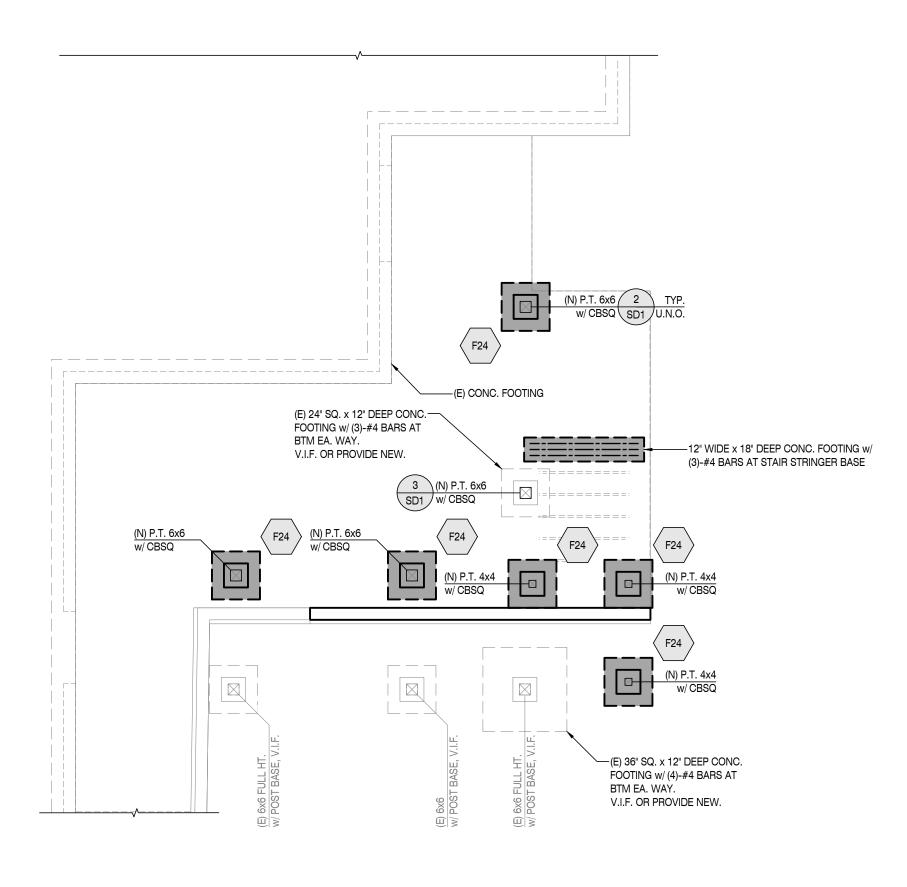
- DIAPHRAGM NAILING: ALL FLOOR SHEATHING, ROOF SHEATHING AND SHEAR PANELS CONSTRUCTED USING WOOD-BASED STRUCTURAL-USE PANELS SHALL BE FASTENED WITH COMMON NAILS. HARDWARE SHALL BE NAILED PER MANUFACTURER'S REQUIREMENTS, OTHERWISE SHORT NAILS MAY BE USED. NAILING SHALL BE PER THE BUILDING CODE UNLESS NOTED OTHERWISE ON THE PLANS OR DETAILS.
- NAIL GUNS: MUST BE EQUIPPED WITH A FLUSH NAILER ATTACHMENT FOR NAILING OF PLYWOOD SHEAR WALLS, FLOOR SHEATHING AND ROOF SHEATHING.
- NAIL MANUFACTURING: ALL NAILS MUST BE DOMESTICALLY MANUFACTURED & MEET THE REQUIREMENTS OF THE CURRENT BUILDING CODE.
- GALVANIZED NAILS: ALL NAILS INTO PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR OTHER APPROVED COATING TO RESIST CORROSION UNLESS PRESSURE TREATED PLATE IS TREATED WITH BORATE.

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REQUIR	ED SPECIAL INSPECTIONS AND TESTS OF <u>CONCRETE</u> 1705.3	CONSTRUCTION	PER TABLE	REQUIRED SPECIAL INSPECTIONS AND TESTS OF <u>SOILS</u> PER TABLE 1	705.6
CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC	CHECK IF REQUIRED TYPE CONTINUOUS	PERIODIC
	INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT REINFORCING BAR WELDING:		Х	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY VERIFY EXCAVATIONS ARE EXTENDED TO PROPER	X
	VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706;		X	DEPTH AND HAVE REACHED PROPER MATERIAL PERFORM CLASSIFICATION AND TESTING OF	
	INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM $\frac{5}{6}$; AND		X	COMPACTED FILL MATERIALS VERIFY USE OF PROPER MATERIALS, DENSITIES	X
	INSPECT ALL OTHER WELDS	X		AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	
	INSPECT ANCHORS CAST IN CONCRETE		X	PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS	X
X	INSPECT ANCHORS POST-INSTALLED IN HARDENED			BEEN PREPARED PROPERLY EXCEPTIONS:	
	• ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X		WHERE SECTION 1803 DOES NOT REQUIRE REPORTING OF MATERIALS AND PA FOR FILL PLACEMENT, THE SPECIAL INSPECTOR SHALL VERIFY THAT THE IN-PA DENSITY OF THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MA DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE W	_ACE DRY XI-MUM DRY
Х	MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED ABOVE		Х	D1557	
	VERIFY USE OF REQUIRED DESIGN MIX		Х	REQUIRED SPECIAL INSPECTIONS FOR <u>SEISMIC RESISTANCE PER 170</u>)5.12
	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		CHECK IF TYPE CONTINUOUS	PERIODIC
	INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	Х		SPECIAL INSPECTIONS OF STRUCTURAL STEEL IN THE SEISMIC FORCE-RESISTING SYSTEMS IN BUILDINGS AND STRUCTURES ASSIGNED TO	
	VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		Х	SEISMIC DESIGN CATEGORY B, C, D, E OR F SHALL BE PER-FORMED IN ACCORDANCE WITH THE	
	INSPECT PRESTRESSED CONCRETE FOR:		L	QUALITY ASSURANCE REQUIREMENTS OF AISC 341.	
	• APPLICATION OF PRESTRESSING FORCES; AND	X		1. IN BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY SPECIAL INSPECTIONS ARE NOT REQUIRED FOR STRUCTURAL STEEL SEISMIC	3 OR C,
	GROUTING OF BONDED PRESTRESSING TENDONS	Х		FORCE-RESISTING SYSTEMS WHERE THE RESPONSE MODIFICATION COEFFICIE DESIGNATED FOR "STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC	RESISTANCE,
	INSPECT ERECTION OF PRECAST CONCRETE MEMBERS		Х	EXCLUDING CANTILEVER COLUMN SYSTEMS" IN ASCE 7, TABLE 12.2-1, HAS BE DESIGN AND DETAILING.	
	VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL		х	2. IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F, SPEC INSPECTIONS ARE NOT REQUIRED FOR STRUCTURAL STEEL SEISMIC FORCE-RE SYSTEMS WHERE DESIGN AND DETAILING IN ACCORDANCE WITH AISC 360 IS F ASCE 7, TABLE 15.4-1. <u>STRUCTURAL STEEL ELEMENTS</u> PER 1705.12.2	SISTING
	SLABS INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		Х	INSPECTION OF STRUTS, COLLECTORS, CHORDS AND FOUNDATION ELEMENTS, SHALL BE PERFORMED IN ACCORDANCE WITH THE QUALITY	
EXCEPTION				ASSURANCE REQUIREMENTS OF AISC 341.	
PLANE THA	ED SPREAD FOOTINGS OF BUILDINGS THREE STORIES AT ARE FULLY SUPPORTED ON EARTH OR ROCK.	BUILDINGS THR	EE STORIES	1. IN BUILDINGS AND STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY SPECIAL INSPECTIONS OF STRUCTURAL STEEL ELEMENTS ARE NOT REQUIRED FORCE-RESISTING SYSTEMS WITH A RESPONSE MODIFICATION COEFFICIENT, F LESS.	FOR SEISMIC 8, OF 3 OR
2.1. THE 2.2. THE	BOVE GRADE PLANE THAT ARE FULLY SUPPORTED ON FOOTINGS SUPPORT WALLS OF LIGHT FRAME CONST FOOTINGS ARE DESIGNED IN ACCORDANCE WITH 180 STRUCTURAL DESIGN OF THE FOOTING IS BASED ON F	RUCTION; 09.7; OR		2. IN STRUCTURES ASSIGNED TO SEISMIC DESIGN CATEGORY D, E, OR F, SPEC INSPECTIONS OF STRUCTURAL STEEL ELEMENTS ARE NOT REQUIRED FOR SEIS FORCE-RESISTING SYSTEMS WHERE DESIGN AND DETAILING OTHER THAN AISO PERMITTED BY ASCE 7, TABLE 15.4-1. SPECIAL INSPECTION SHALL BE IN ACCOUNT THE ADDUCADE E DESERVICE STANDARD HISTER IN ACCOUNTS	MIC 341 IS
REGARDLE	TS OR USED IN THE FOOTING CONSTRUCTION.			THE APPLICABLE REFERENCED STANDARD LISTED IN ASCE 7, TABLE 15.4-1. STRUCTURAL WOOD PER 1705.12.2	
	RUCTURAL CONCRETE SLABS SUPPORTED DIRECTLY			CHECK IF TYPE CONTINUOUS	PERIODIC
	SED SLABS ON GRADE, WHERE THE EFFECTIVE PRE-S		'HAN 150 PSI.	INSPECTION DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC FORCE-RESISTING	
	ETE FOUNDATION WALLS CONSTRUCTED WITH TABLE ETE PATIOS, DRIVEWAYS AND SIDEWALKS ON GRADE			SYSTEM.	
5. 00N0N	REQUIRED SPECIAL INSPECTIONS FOR WIND RESIST.		.11	X OTHER FASTENING OF ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR	X
CHECK IF			 [WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS AND HOLD-DOWNS.	
REQUIRED	TYPE 1. IN WIND EXPOSURE CATEGORY B, WHERE V _{ASD}	CONTINUOUS		EXCEPTION: SPECIAL INSPECTIONS ARE NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING AND OTHER FASTENING TO	
	AS DETERMINED IN ACCORDANCE WITH SECTION 1609.3.1 IS 120 MILES PER HOUR OR GREATER 2. IN WIND EXPOSURE CATEGORY C OR D, WHERE		X	ELEMENTS OF THE SEISMIC FORCE-RESISTING SYSTEM, WHERE THE FASTENER SPACI SHEATHING IS MORE THAN 4 INCHES ON CENTER.	NG OF THE
	V _{ASD} AS DETERMINED IN ACCORDANCE WITH SECTION 1609.3.1 IS 110 MPH OR GREATER		Х	COLD-FORMED STEEL LIGHT FRAME CONSTRUCTION PER 1705.11	
CHECK IF	STRUCTURAL WOOD PER 1705.11.			REQUIRED TYPE CONTINUOUS	
REQUIRED	TYPE DURING FIELD GLUING OPERATIONS OF ELEMENTS	CONTINUOUS	PERIODIC	OF THE MAIN WINDFORCE-RESISTING SYSTEM.	X
	OF THE MAIN WINDFORCE RESISTING SYSTEM INSPECTION OF NAILING, BOLTING, ANCHORING AND	X		ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM,	x
	OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES AND HOLD-DOWNS.		Х	INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS. EXCEPTION: SPECIAL INSPECTIONS ARE NOT REQUIRED FOR COLD-FORMED STEEL LIGHT-F	
DIAPHRAGN ELEMENTS	E E E E E E E E E E E E E E	R FASTENING TO (OTHER	WALLS AND DIAPHRAGMS, INCLUDING SCREW INSTALLATION, BOLTING, ANCH OTHER FASTENING TO COMPONENTS OF THE SEISMIC FORCE-RESISTING SYSTI EITHER OF THE FOLLOWING APPLIES: 1. THE SHEATHING IS GYPSUM BOARD OR FIBERBOARD.	ORING AND EM, WHERE
	COLD-FORMED STEEL LIGHT FRAME CONSTRUCTIO	<u>DN</u> PER 1705.11.	2	2. THE SHEATHING IS WOOD STRUCTURAL PANEL OR STEEL SHEETS ON ONLY (THE SHEAR WALL, SHEAR PANEL OR DIAPHRAGM ASSEMBLY AND THE FASTEN OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.	
CHECK IF REQUIRED	TYPE	CONTINUOUS	PERIODIC	EXCEPTION: THE SPECIAL INSPECTIONS SPECIFIED IN SECTIONS 1705.12.1 THROUGH 1705.1	2 9 ABE NOT
	INSPECTION FOR WELDING OPERATIONS OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM.		X	REQUIRED FOR STRUCTURES DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH ONE OF THE FOLLOWIN	
	INSPECTION FOR SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF ELEMENTS OF THE MAIN WINDFORCE-RESISTING SYSTEM,		V	1. THE STRUCTURE CONSISTS OF LIGHT-FRAME CONSTRUCTION; THE DESIGN RESPONSE ACCELERATION AT SHORT PERIODS, SDS, AS DETERMINED IN SECT	
EXCEPTION	INCLUDING SHEAR WALLS, BRACES, DIAPHRAGMS, COLLECTORS (DRAG STRUTS) AND HOLD-DOWNS.		X	DOES NOT EXCEED 0.5; AND THE BUILDING HEIGHT OF THE STRUCTURE DOES IN FEET. 2. THE SEISMIC FORCE-RESISTING SYSTEM OF THE STRUCTURE CONSISTS OF MASONRY OR REINFORCED CONCRETE; THE DESIGN SPECTRAL RESPONSE AC	REINFORCED
SPECIAL IN WALLS AN FASTENING	ISPECTIONS ARE NOT REQUIRED FOR COLD-FORMED D DIAPHRAGMS, INCLUDING SCREWING, BOLTING, AN TO COMPONENTS OF THE WINDFORCE RESISTING S WING APPLIES:	ICHORING AND	OTHER	AT SHORT PERIODS, SDS, AS DETERMINED IN SECTION 1613.2.4, DOES NOT EXT THE BUILDING HEIGHT OF THE STRUCTURE DOES NOT EXCEED 25 FEET. 3. THE STRUCTURE IS A DETACHED ONE- OR TWO-FAMILY DWELLING NOT EXC STORIES ABOVE GRADE PLANE AND DOES NOT HAVE ANY OF THE FOLLOWING	CEED 0.5; AND EEDING TWO
2. THE S THE	HEATHING IS GYPSUM BOARD OR FIBERBOARD. HEATHING IS WOOD STRUCTURAL PANEL OR STEEL S SHEARWALL, SHEAR PANEL OR DIAPHRAGM AS OF THE SHEATHING IS MORE THAN 4 INCHES ON CENT	SSEMBLY AND T		OR VERTICAL IRREGULARITIES IN ACCORDANCE WITH SECTION 12.3 OF ASCE 7 3.1. TORSIONAL OR EXTREME TORSIONAL IRREGULARITY. 3.2. NONPARALLEL SYSTEMS IRREGULARITY. 3.3. STIFFNESS-SOFT STORY OR STIFFNESS-EXTREME SOFT STORY IRREGULAR	
CHECK IF	WIND RESISTING COMPONENTS PER 170			3.4. DISCONTINUITY IN LATERAL STRENGTH-WEAK STORY IRREGULARITY.	
		CONTINUOUS	PERIODIC		
	ROOF COVERING, ROOF DECK AND ROOF FRAMING CONNECTIONS. EXTERIOR WALL COVERING AND WALL		X	DEPUTY SPECIAL INSPECTOR	
	CONNECTIONS TO ROOF AND FLOOR DIAPHRAGMS AND FRAMING.		Х	1. DEPUTY SPECIAL INSPECTIONS SHALL BE PROVIDED BY:	
				NAME: PHONE NUMBER:	
				2. SPECIAL INSPECTOR SHALL BE HIRED BY THE OWNER TO PROVIDE SPECIA INSPECTIONS AS REQUIRED PER THE PLANS.	L
				3. <u>SPECIAL INSPECTOR:</u> A QUALIFIED PERSON, EMPLOYED BY THE OWNER, W DEMONSTRATED COMPETENCE TO THE SATISFACTION OF THE BUILDING O INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION	FFICIAL FOR
				SPECIAL INSPECTION. DUTIES INCLUDE VISUAL INSPECTIONS AND FIELD MEASUREMENTS OF MATERIALS, OBTAINING SPECIMENS FOR TESTS AND ACTIONS INCLUDING PREPARATION OF REPORTS.	
				4. <u>CONTINUOUS INSPECTION:</u> ON SITE INSPECTION BY THE SPECIAL INSPECTO CONTINUOUS BASIS OBSERVING ALL WORK REQUIRING SPECIAL INSPECTO	
				5. <u>PERIODIC INSPECTION:</u> INTERMITTENT INSPECTION AS PERMITTED BY THE SPECIFIED AT PRE-DETERMINED INTERVALS OR MORE FREQUENTLY AS WO PROGRESSES. NO SIGNIFICANT ELEMENTS OR AREAS SHALL BE COVERED ADDITIONAL WORK UNTIL ADDROVED BY THE DIVID ON SECOND.	DRK BY
				 ADDITIONAL WORK UNTIL APPROVED BY THE BUILDING OFFICIAL AND/OR S INSPECTOR. 6. REPORTS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL IN A TIMELY M, DETERMINED BY THE BUILDING OFFICIAL 	
				DETERMINED BY THE BUILDING OFFICIAL.	
	3			4	

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	•	CTURAL OBSERVATION, PECIAL INSPECTION)			REVISION SCHEDU	
1. STRUCTURAL	OBSERVATION:	,		NO.	DESCRIPTION	DATE
(STRU	CTURAL ENGINEER) 48 HOURS I	<u>CONTRACTOR:</u> NOTIFY ARCHITECT N ADVANCE OF CRITICAL STAGES OF SO VISITS MAY BE SCHEDULED BY				
SCHEI	CTURAL OBSERVER. FAILURE B DULE MAY REQUIRE REMOVAL (RVATION. CONTRACTOR TO BEA					
REPLA PROCI	CEMENT OF FINISHED WORK O ESS OR AS REQUIRED FOR COR	R FRAMING DAMAGED BY REMOVAL				
MEETI	NG BETWEEN ARCHITECT (STR CTURAL DESIGN, STRUCTURAL	UCTURAL ENGINEER) RESPONSIBLE FOR OBSERVER, CONTRACTOR, AFFECTED	A			
PRESI	DE OVER THIS MEETING. PURPO	PECTOR. STRUCTURAL OBSERVER WILL DSE OF MEETING IS TO IDENTIFY MAJOR ECTIONS THAT AFFECT VERTICAL AND				
SCHEI		OF STRUCTURE AND TO REVIEW ATION, MATERIALS TESTING, AND SPECIAL				
C. <u>CRITIC</u> I. CASTI		I REQUIRING STRUCTURAL OBSERVATION:		SEAL:		
2. MILL TEST REI	PORTS CERTIFYING MATERIALS	CONTRACTOR TO SUBMIT MILL TEST			PROFESSION	
STRUCTUR INSPECTO	R, ARCHITECT (STRUCTURAL E	E TESTED STOCK TO OWNER, SPECIAL NGINEER) AND, UPON REQUEST, TO			Marte A P	
IDENTIFIC/	ATION. IF MILL TEST REPORTS (MATERIALS ARE PROPERLY TAGGED FOR CANNOT BE MADE AVAILABLE OR IF NG LABORATORY WILL PERFORM TESTS	-		No. C92529	
AS DIREC [®] TESTING F	TED BY ARCHITECT (STRUCTUR) RELATED TO TESTS AND INSPEC	AL ENGINEER). CONTRACTOR SHALL PAY TIONS OF UNIDENTIFIABLE MATERIALS 7 FOR COSTS TEST REPORTS, MATERIALS			FIF OF CALIFORN	
FOUND DE REPLACIN	EFICIENT AFTER INITIAL TESTS A IG DEFICIENT MATERIALS.	ND INSPECTIONS, OR MATERIALS				
PROPO	OSED WELDED MOMENT CONN TRATION GROOVE WELDS OCCU	IR AT GROUPS 4 AND 5 STRUCTURAL		CONSUL	TANT:	
THICK	, SUBMIT MILL TEST REPORTS T	A6, AND PLATES EXCEEDING 2 INCHES O ARCHITECT (STRUCTURAL ENGINEER) G CODE AUTHORITY. MILL TEST REPORTS				
SHALL	CERTIFY THAT CHARPY V-NOT PLIANCE WITH ASTM A6, SUPPLE	CH TESTING WAS CONDUCTED IN EMENTARY REQUIREMENT S5, INCLUDING 1 A673 AT FREQUENCY P WITH MINIMUM		IS	E	
AVERA		DRBED ENERGY AT 70 DEGREES	B		69 VIA INDU ECULA, CA	
STRUCTUR		YWOOD-WEB JOISTS, PRECAST		TEL	E : 9 5 1 . 6 0 0 V.ISEENGINEEI	. 0 0 3
OWNER, T		CABLE CODE SECTION 1701.7. SUBMIT TO ECT (STRUCTURAL ENGINEER) AND		SOCA	L NORCAL CC	LORAD
		NG LABORATORY WILL SUBMIT WELD TEST CHITECT (STRUCTURAL ENGINEER) AND,				
UPON REC		UTHORITY. SEE SPECIFICATIONS FOR				
FROM VIS	UAL INSPECTION AND REVIEW	RUCTIVE TESTING REQUIREMENTS: APART OF FABRICATION AND ERECTION REPORTS Y CONTROL TESTING AND INSPECTION,	_	Dr		aian
OWNER'S INSPECTIC	TESTING LABORATORY WILL PE DN AND TESTING. TESTING LABO	RFORM INDICATED SHOP AND FIELD		DI	okaw De	sign
AND EREC		UOUS INSPECTION OF STEEL FABRICATION ING. SHOP AND FIELD TESTING OF DLLOWS:			P.O. BOX 3103 ROHNERT PARK, CA 94	227
III OR I	V ULTRASONIC TESTING (UT) SH	DS: FOR STRUCTURES IN RISK CATEGORY IALL BE PERFORMED BY QA ON ALL CJP VERSELY APPLIED TENSION LOADING IN			WWW.BROKAWDESIGN.	
BUTT, STRUC	T- AND CORNER JOINTS, IN MA CTURES IN RISK CATEGORY II, U	TERIALS 5/16 IN. THICK OR GREATER. FOR T SHALL BE PERFORMED BY QA ON 10%			WWW.BROKAWDESIGN.	
TRANS GREA	SVERSELY APPLIED TENSION LC TER. FOR STRUCTURES IN RISK	AND CORNER JOINTS SUBJECT TO DADING, IN MATERIALS 5/16 IN THICK OR CATEGORY I, NDT OF CJP GROOVE WELDS				
GROO	VE WELDS IN MATERIALS LESS	RES IN ALL RISK CATEGORIES, NDT OF CJP THAN 5/16 IN THICK IS NOT REQUIRED. RFACES OF ACCESS HOLES SHALL BE	C	PROJEC		
(50 M	M) FOR ROLLED SHAPES, OR W	EN THE FLANGE THICKNESS EXCEEDS 2 IN. HEN THE WEB THICKNESS EXCEEDS 2 IN SHALL BE DEEMED UNACCEPTABLE		A	CCESSIBIL	ITY
	RDLESS OF SIZE OR LOCATION.					
CONTINUC	DUS SPECIAL INSPECTION WILL	BE PERFORMED BY SPECIAL INSPECTOR CTION 1701 AND SPECIFICALLY APPROVED ACH INSPECTION CATEGORY BELOW.				
PERIODIC OTHERWIS	INSPECTION IS NOT PERMITTED SE ACCEPTED BY ARCHITECT (S	UNLESS INDICATED IN THE PROGRAM OR TRUCTURAL ENGINEER). SEE				
SPECIFICA	TIONS FOR ADDITIONAL SPECI/	AL INSPECTION REQUIREMENTS.				
ENGINEER C	OF RECORD - STRUCTURA	L OBSERVATION PROGRAM			515 J STREE	
	BSERVATIONS FOR SEISMIC & V			E	UREKA, CA 95	501
THE STATE OF		OR ARCHITECT REGISTERED/LICENSED IN IBLE FOR THE STRUCTURAL DESIGN TO				
ENGINEER IN I	RESPONSIBLE CHARGE/ENGINE	ER OF RECORD:				
NAME: LIC #:	SHAWN LOTHROP, SE S5627					
		IBLE FOR STRUCTURAL OBSERVATION(S):	D			
<u>NAME:</u> LIC #:	SHAWN LOTHROP, SE S5627					
GOVERNING C	CODE. STRUCTURAL OBSERVAT	FORMED AS REQUIREED BY THE ON SHALL BE PERFORMED FOR THE AGES OF CONSTRUCTION AS LISTED				
BELOW:	DBSERVATION ITEM	STAGE		SHEET		
FOUNDATION	N STEEL REINFORCING OF ALL BUILDINGS	PRIOR TO CONCRETE POUR				
F	FLOOR DIPHRAGM	DURING FLOOR FRAMING			STRUCTUR	2AI
ROOF &	WALL FRAMING MEMBERS	AFTER ROOF DIAPHRAGM IS	-		NOTES	
		COMPLETE PRIOR TO ROOFING				
		N. THE STRUCTURAL OBSERVER SHALL		100117		
SUBMIT TO TH		RITTEN STATEMENT IDENTIFYING THE		ISSUE	PREPARATION AND RE	VIEW
BUILDING DEF	PARTMENT A WRITTEN STATEME	URAL OBSERVER SHALL SUBMIT TO THE ENT THAT THE STRUCTURAL OBSERVATION		DRAWI	NER: ISE	
BEST OF THE S	STRUCTURAL OBSERVER'S KNO	REPORTED DEFICIENCIES WHICH, TO THE WLEDGE, HAVE NOT BEEN RESOLVED.	E		REVIEW: ISE	
5. STRUCTURAL BY THE GOVER		DE OR WAIVE THE INSPECTIONS REQUIRE		SHEET	NUMBER:	
					SN	\boldsymbol{A}
			1 I	1		



FOUNDATION PLAN

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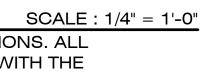
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DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. ALL CONSTRUCTION DIMENSIONS SHOULD BE VERIFIED WITH THE ARCHITECTURAL SET OF PLANS



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FOUNDATION NOTES

REFER TO STRUCTURAL DETAIL SHEETS (SD) FOR TYPICAL CONDITIONS NOT SPECIFICALLY CALLED OUT OR NOTED ON PLANS.

ALL DIMENSIONS SHALL BE PER THE CURRENT APPROVED STAMPED SET OF ARCHITECTURAL PLANS. OUR OFFICE SHOULD BE NOTIFIED IMMEDIATELY IF DISCREPANCIES EXIST BETWEEN THE ARCHITECTURAL & STRUCTURAL PLANS.

FOUNDATION LEGEND & SYMBOLS

FXX	INDICATES PAD FOOTING. SEE PAD FOOTING SCHEDULE FOR SIZE & REINFORCEMENT.
SHEET #	
DETAIL #	SHEET NUMBER FOR MORE INFORMATION. TEXT ADJACENT TO BUBBLE INDICATES REVISED HARDWARE OTHER THAN NOTED IN DETAIL.
REQUIRED	INDICATES DETAIL CUT LOCATION. REFER TO DETAIL # AND STRUCTURAL
	INDICATES NEW CONCRETE FOOTING.
	INDICATES EXISTING CONCRETE SLAB & FOOTING.

PAD FOOTING SCHEDULE

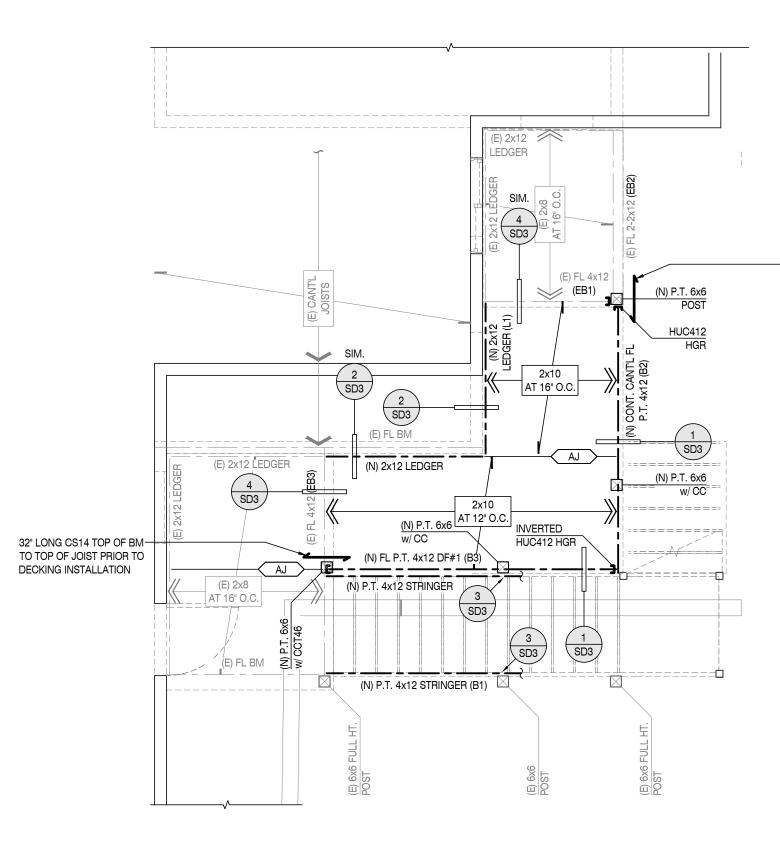
-OOTING MARK	CONCRETE PAD	D FOOTING SIZE	STEEL REINFORCEMENT
	WIDTH x LENGTH	THICKNESS	STEEL NEINFONGEIMEINT
F24	24" x 24"	12"	(3) #4 EACH WAY AT BTM

REVISION SCHEDULE			
NO. DESCRIPTION DATE			
SEAL:			
PROFESSIOA			
HU ANT E.F. DY HU			
No. C92529			
PIE OF CALLFORM			
CONSULTANT:			
ENGINEERS			
2 7 3 6 9 V I A I N D U S T R I A T E M E C U L A , C A 9 2 5 9 0 T E L E : 9 5 1 . 6 0 0 . 0 0 3 2			
WWW.ISEENGINEERS.COM			
SOCAL NORCAL COLORADO			
Dreken			
Brokaw Design			
P.O. BOX 3103			
ROHNERT PARK, CA 94927			
WWW.BROKAWDESIGN.COM			
PROJECT:			
ACCESSIBILITY			
MODIFICATIONS			
515 J STREET			
EUREKA, CA 95501			
SHEET NAME:			
FOUNDATION			
PLAN			
ISSUE DATE: 1/30/24			
PREPARATION AND REVIEW DRAWN BY: ISE			
DESIGNER: ISE PROJ MGR:			
PEER REVIEW: ISE SHEET NUMBER:			
SHELT NUMBER.			
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DECK FRAMING PLAN SCALE : 1/4" = 1'-0"

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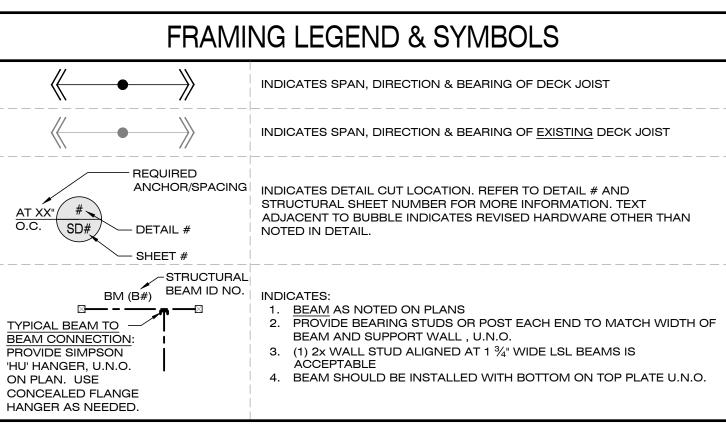
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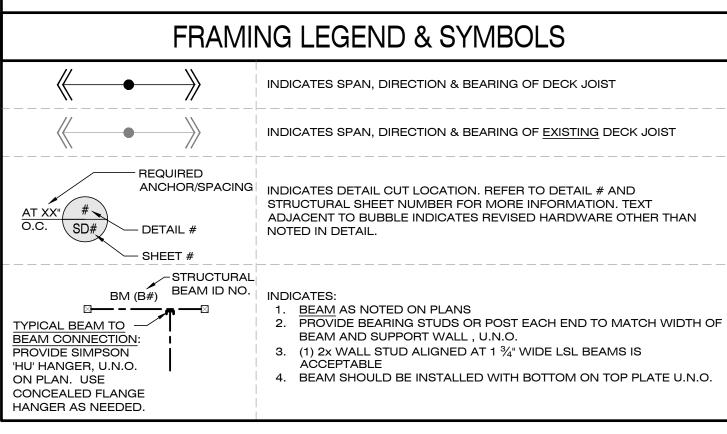
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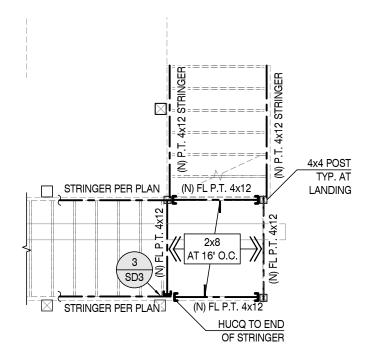
DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. ALL CONSTRUCTION DIMENSIONS SHOULD BE VERIFIED WITH THE ARCHITECTURAL SET OF PLANS





- 32" LONG CS14 TOP OF BM TO TOP OF BM PRIOR TO DECKING INSTALLATION

3





DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS. ALL CONSTRUCTION DIMENSIONS SHOULD BE VERIFIED WITH THE ARCHITECTURAL SET OF PLANS

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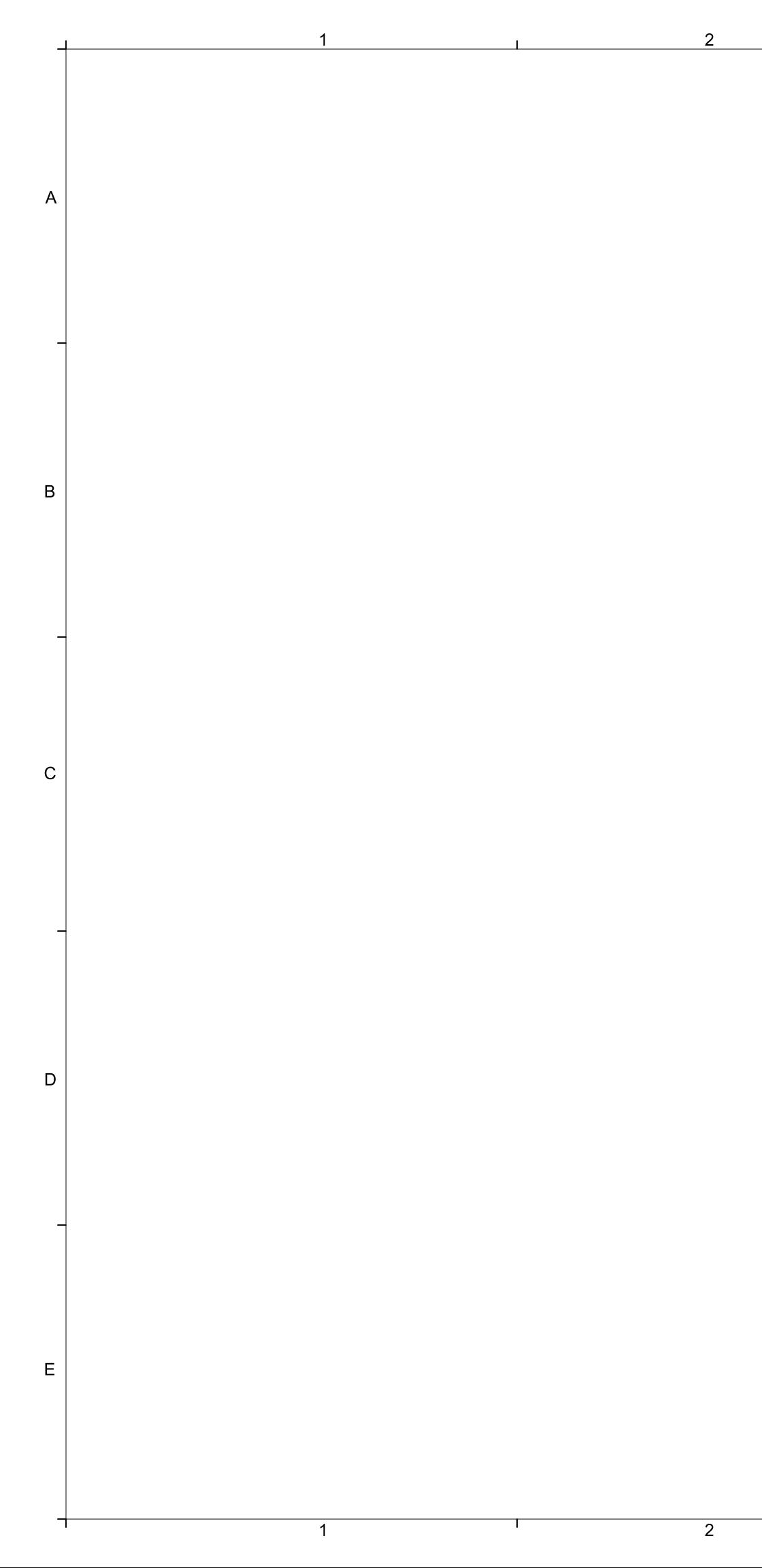
FRAMING NOTES

. REFER TO STRUCTURAL GENERAL NOTE SHEET (SN SERIES) AND DETAILS (SD SERIES) FOR INFORMATION NOT SHOWN ON THE MAIN FRAMING PLANS.

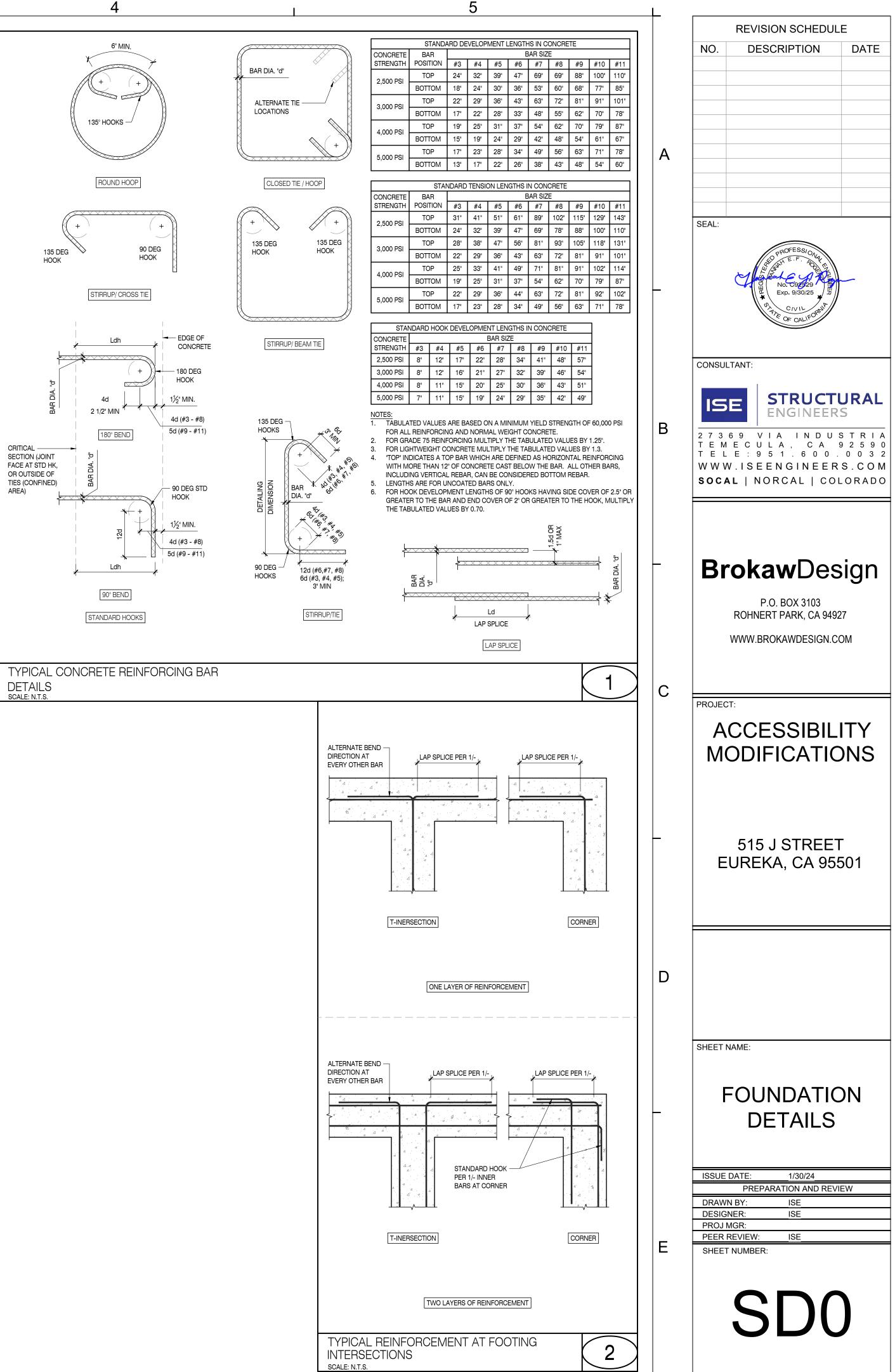
2. WATERPROOFING & DRAINAGE SHALL BE PROVIDED BY OTHERS.

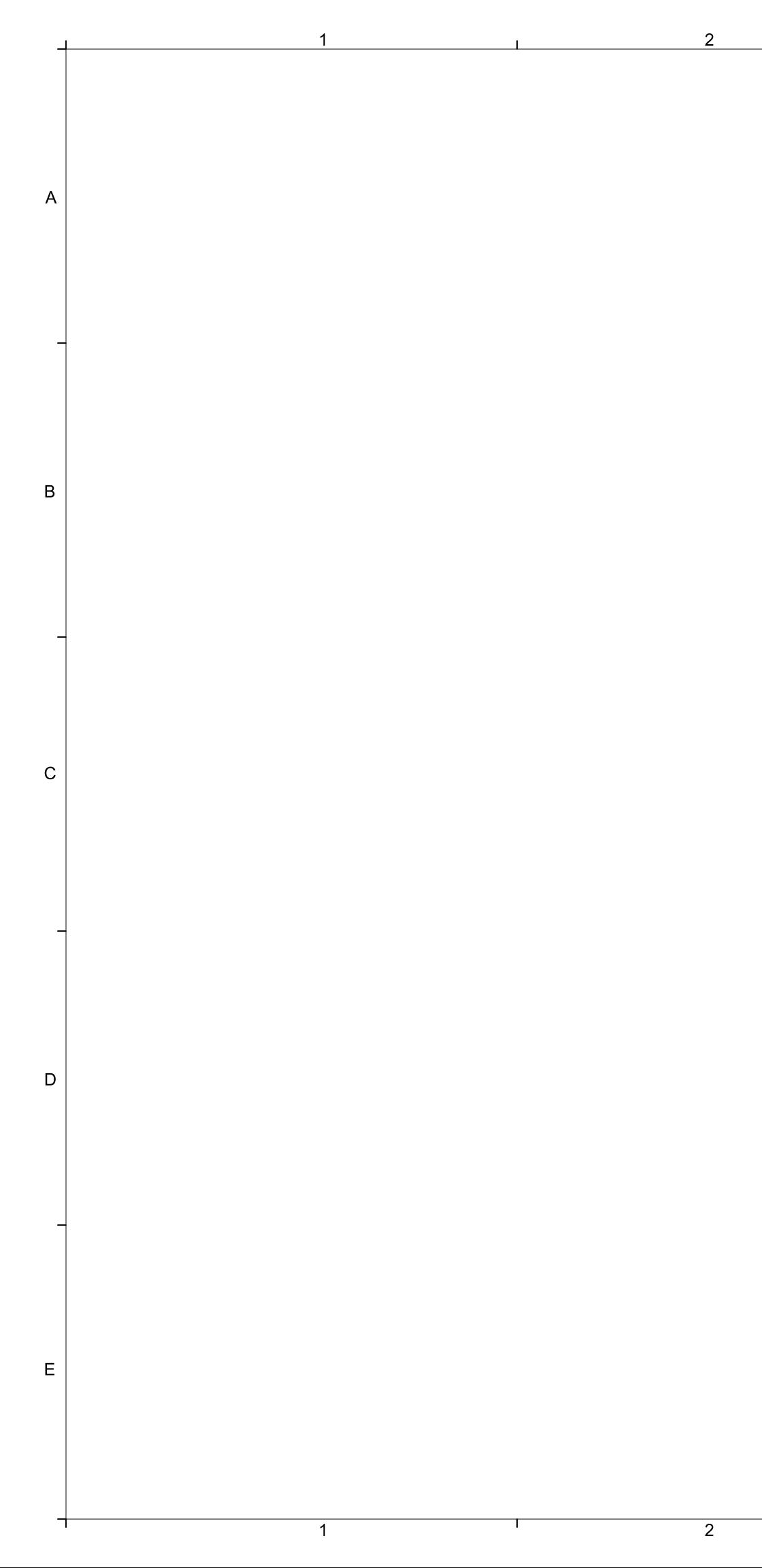
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	T E L E : 9 5 1 . 6 0 0 . 0 0 3 2 W W W . I S E E N G I N E E R S . C O M			
	SOCAL NORCAL COLORADO			
_	Rr	okaw Des	ian	
		P.O. BOX 3103	''g''	
		ROHNERT PARK, CA 9492		
	WWW.BROKAWDESIGN.COM			
С				
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_	515 J STREET			
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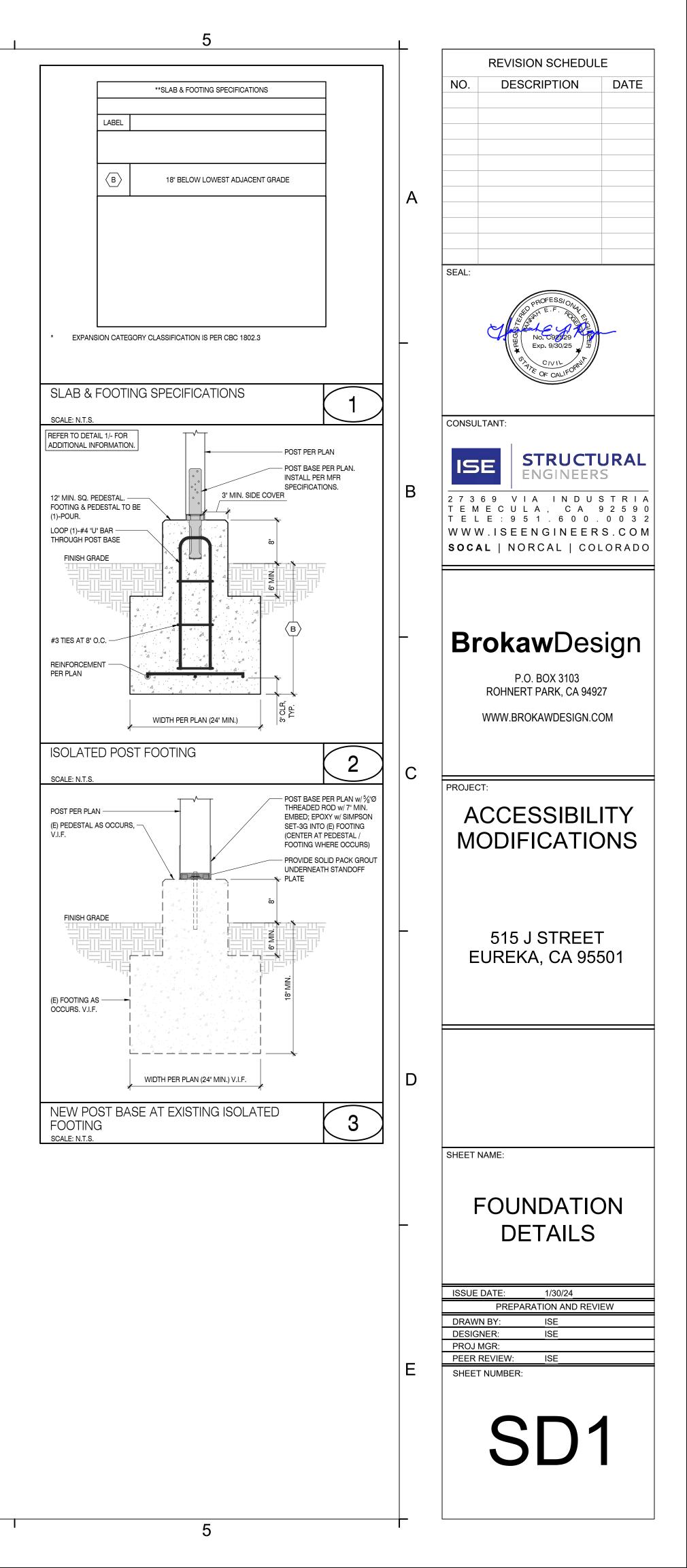
REVISION SCHEDULE

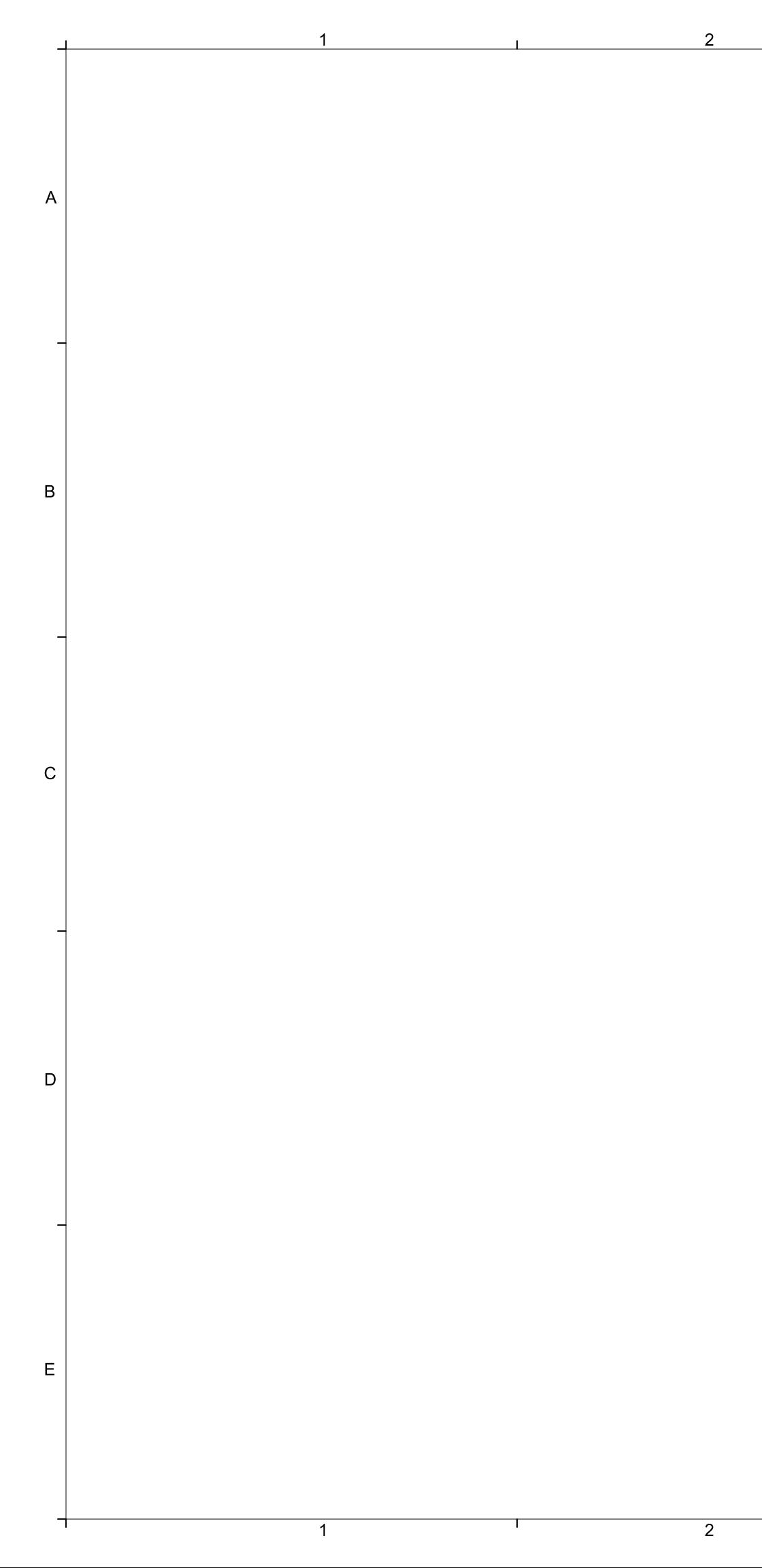




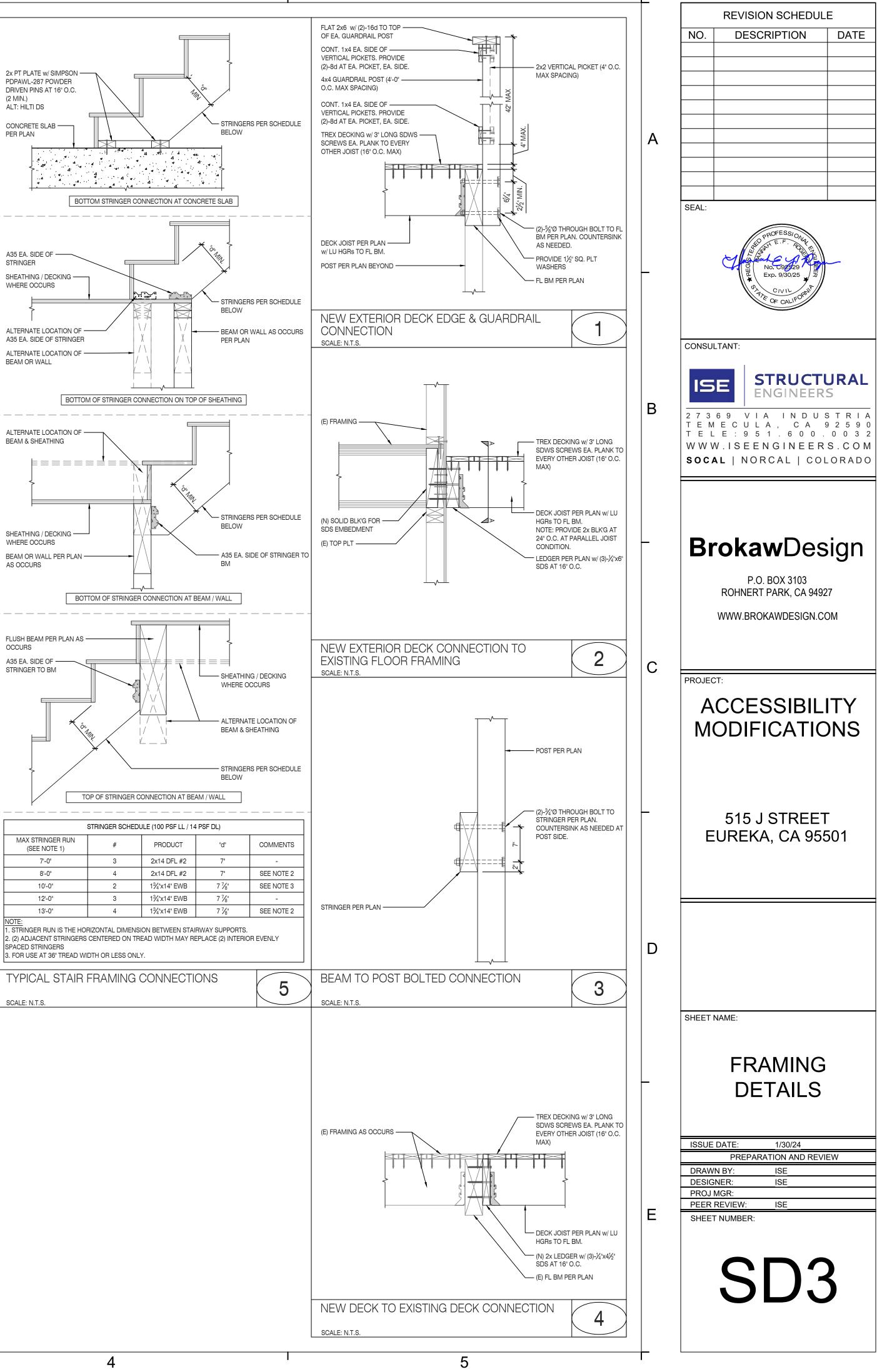












SPACED STRINGERS