













# 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.
- 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 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 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.
- 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)
- 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.
- 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.
- 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.
- 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.
- CONTAIN CONCRETE WASHOUT AREAS AND SIMILAR AREAS THAT MAY CONTAIN POLLUTANTS TO PREVENT DISCHARGE INTO THE UNDERLYING SOIL OR ONTO THE SURROUNDING AREAS.
- 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).
- PLACE EQUIPMENT OR VEHICLES, WHICH ARE BEING FUELED, MAINTAINED AND STORED, IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPS.

# GENERAL NOTES CONT.

- 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.
- THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN ALL APPLICABLE BMPS LISTED.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.

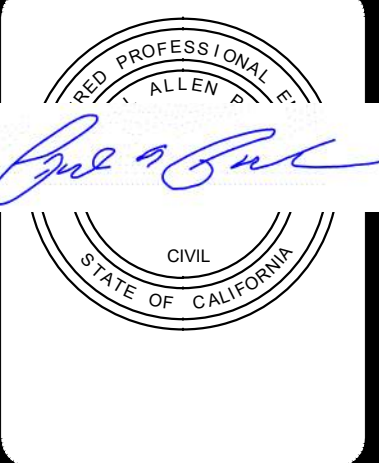
# GRADING NOTES

- 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 DOWNSIDE 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.
- 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.
- DUST CONTROL SHALL BE PROVIDED BY CONTRACTOR DURING ALL PHASES OF CONSTRUCTION.
- 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.
- DRAINAGE FROM UPSTREAM PROPERTIES SHALL NOT BE BLOCKED BY GRADING OR CONSTRUCTION OF IMPROVEMENTS.
- THE CONTRACTOR SHALL PROTECT EXISTING DRAINAGE FACILITIES FROM SEDIMENTATION DURING ALL PHASES OF CONSTRUCTION.
- 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.
- ALL PADS SHALL BE CONSTRUCTED TO A TOLERANCE OF 0.1 FEET +/- FROM SHOWN PAD ELEVATION.
- RECORD DRAWINGS SHALL INCLUDE SUB-DRAINS AND CLEAN-OUTS REQUIRED BY THE PROJECT GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
- 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.
- FILLING IS RESTRICTED TO 1 FOOT MAXIMUM ABOVE EXISTING GROUND AND 2 FOOT MINIMUM ADJACENT TO EXISTING RESIDENTIAL LOTS, UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
- BLASTING (IF REQUIRED) REQUIRES A PERMIT FROM THE CITY FIRE DEPARTMENT.
- 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.
- REMOVAL OF ANY PERMANENT STRUCTURE 10' X 12' OR LARGER REQUIRES A DEMOLITION PERMIT FROM THE CITY BUILDING DIVISION.
- 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

AB	AGGREGATE BASE	GB	GRADE BREAK
AD	AREA DRAIN	INV	INVERT
AC	ASPHALT CONCRETE	LF	LINEAL FEET
AGG	AGGREGATE	MAX	MAXIMUM
BLDG	BUILDING	MIN	MINIMUM
BW	BOTTOM OF WALL	NO.	NUMBER
CB	CATCH BASIN	<N>	NEW
CL	CENTER LINE	NIC	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT(S)	NTS	NOT TO SCALE
CO	CLEAN OUT	OC	ON CENTER
COMP	COMPACTION	PCC	PORTLAND CEMENT CONCRETE
CC	CONCRETE	PVC	POLYVINYL CHORIDE
CP	CONTROL POINT	R	RADIUS
CPP	CORRUGATED PLASTIC PIPE	REC	RECORD
DIA or Ø	DIAMETER	SCH	SCHEDULE
DI	DRAIN INLET	SCTPW	SONOMA COUNTY TRANSPORTATION PUBLIC WORKS
EA	EACH	SCWA	SONOMA COUNTY WATER AGENCY
EC	EDGE OF CONCRETE	SD	STORM DRAIN
ELEC	ELECTRICAL	SAP	SEE ARCHITECTURAL PLANS
EG	EXISTING GROUND	SAD	SEE ARCHITECTURAL DRAWINGS
EL	ELEVATION	SW	SIDEWALK
EP	EDGE OF PAVEMENT	TW	TOP OF WALL
<E>	EXISTING	TC	TOP OF CURB
FF	FINISH FLOOR	TG	TOP OF GRATE
FG	FINISH GRADE	TD	TOP OF DIKE
FL	FLOW LINE	<TYP>	TYPICAL
FND	FOUNDATION	U.S.P.	UNDER SEPARATE PERMIT
G	GROUND	VEG	VEGETATION

DATE	
NO.	
REVISION	



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**515 J ST ACCESSIBILITY IMPROVEMENTS**  
EUREKA, CALIFORNIA

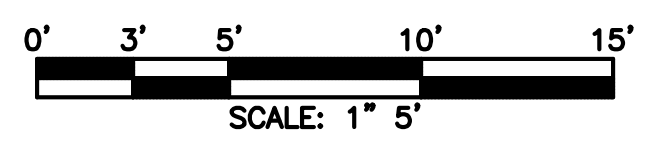
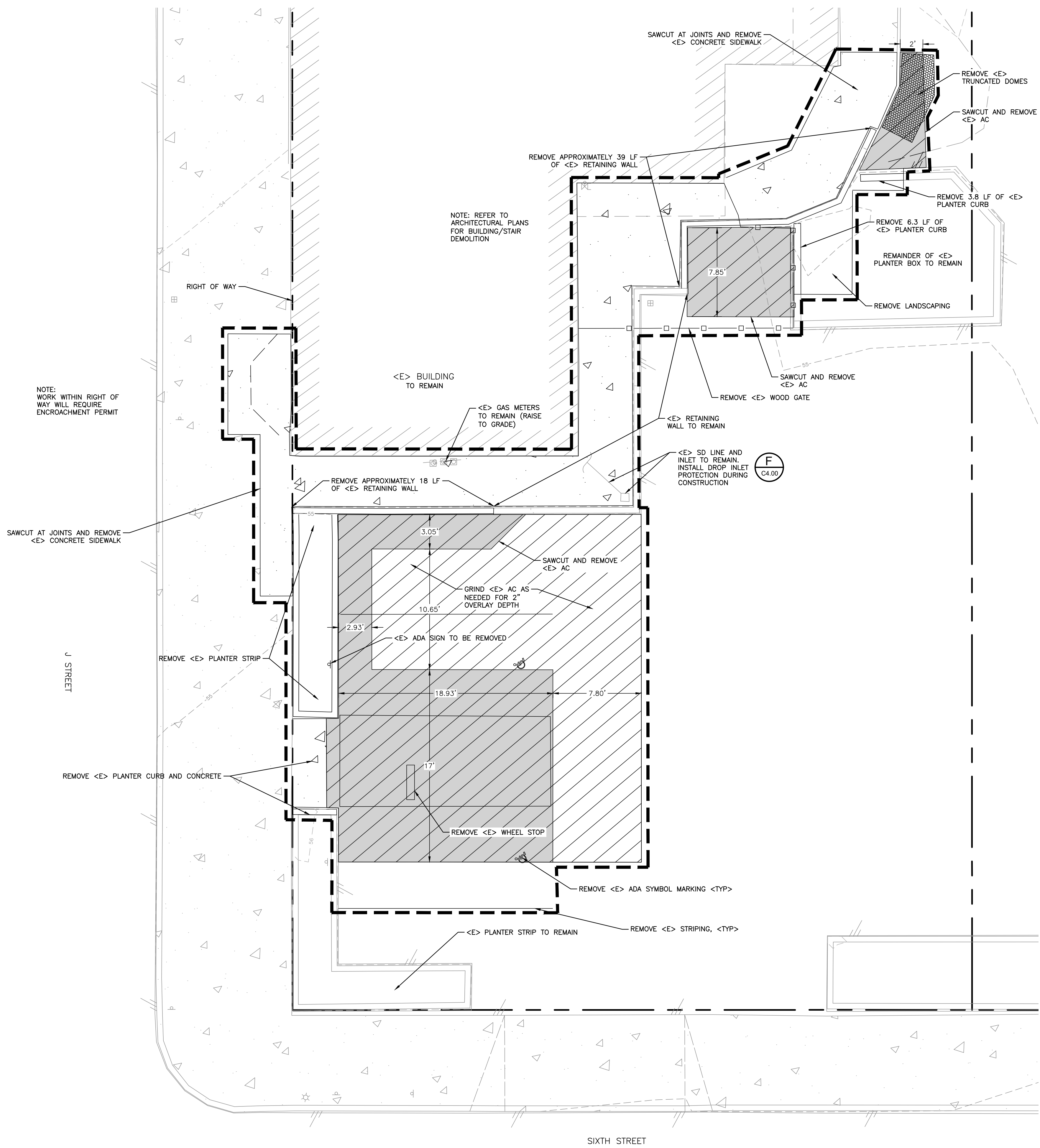
STANDARD NOTES

PLAT NO. **PLAT #**  
JOB NO. **9887.06**  
DATE **FEBRUARY 2024**  
DESIGNER **PAP**  
CHECKED **XX** DRAWN **CLM**  
SHEET **C0.10**

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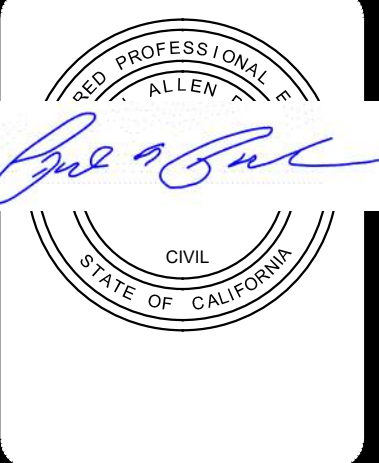
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**DEMO LEGEND**

DEMO LIMITS	
EXISTING CONTOUR	
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	

DATE	
NO.	REVISION



**515 J ST ACCESSIBILITY IMPROVEMENTS**  
EUREKA, CALIFORNIA  
**EXISTING CONDITIONS AND DEMOLITION PLAN**

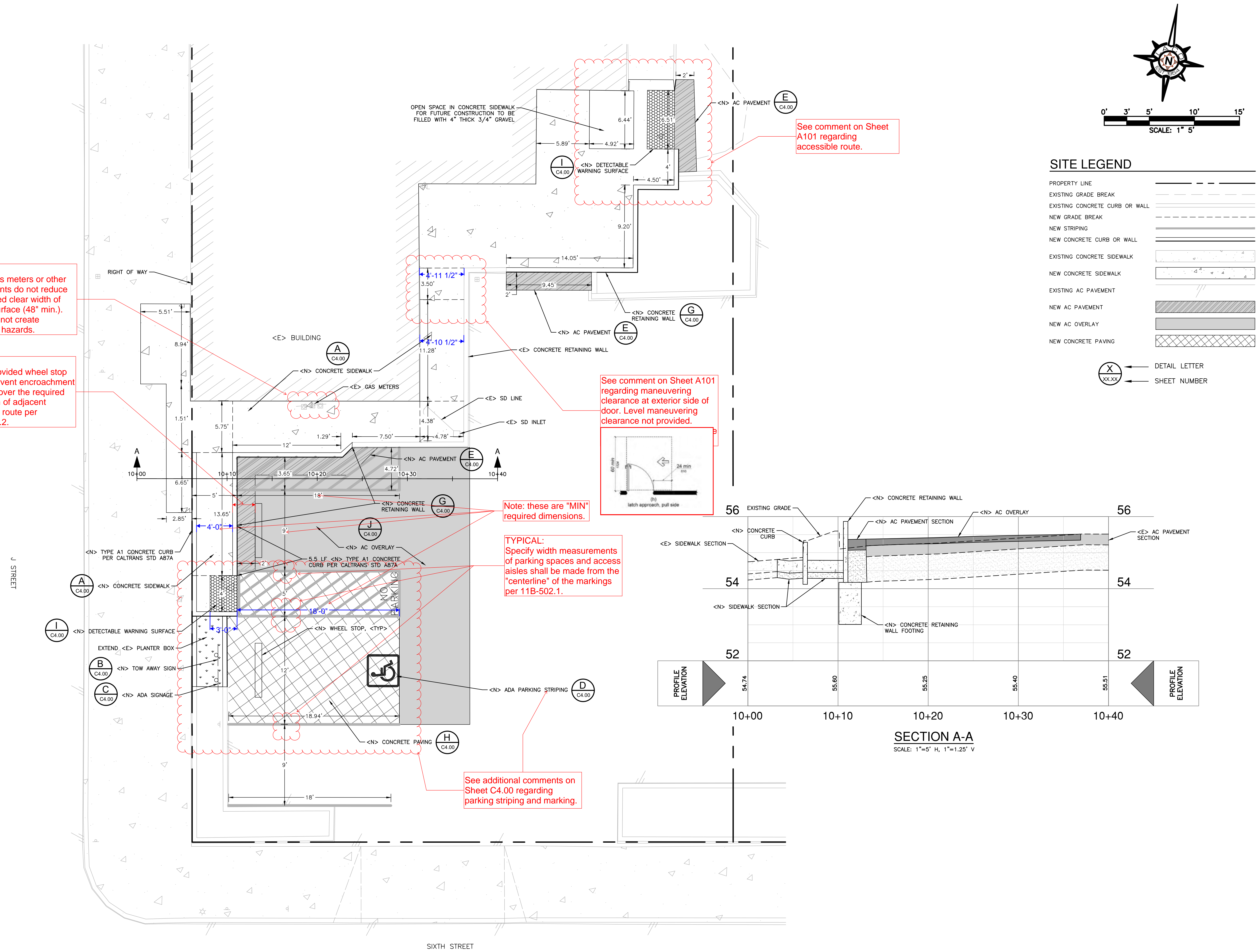
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JOB NO.	9887.06
DATE	FEBRUARY 2024
DESIGNER	PAP
CHECKED	XX DRAWN CLM
SHEET	C1.00

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**TYPICAL:**  
Ensure gas meters or other site elements do not reduce the required clear width of walking surface (48" min.). And/or do not create protrusion hazards.

**TYPICAL:**  
Ensure provided wheel stop able to prevent encroachment of vehicle over the required clear width of adjacent accessible route per 11B-502.7.2.

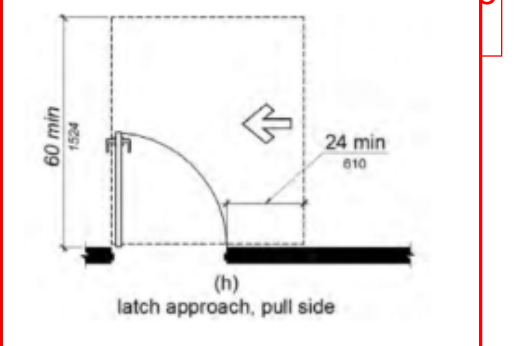
Note: these are "MIN" required dimensions.

**TYPICAL:**  
Specify width measurements of parking spaces and access aisles shall be made from the "centerline" of the markings per 11B-502.1.

See additional comments on Sheet C4.00 regarding parking striping and marking.

See comment on Sheet A101 regarding accessible route.

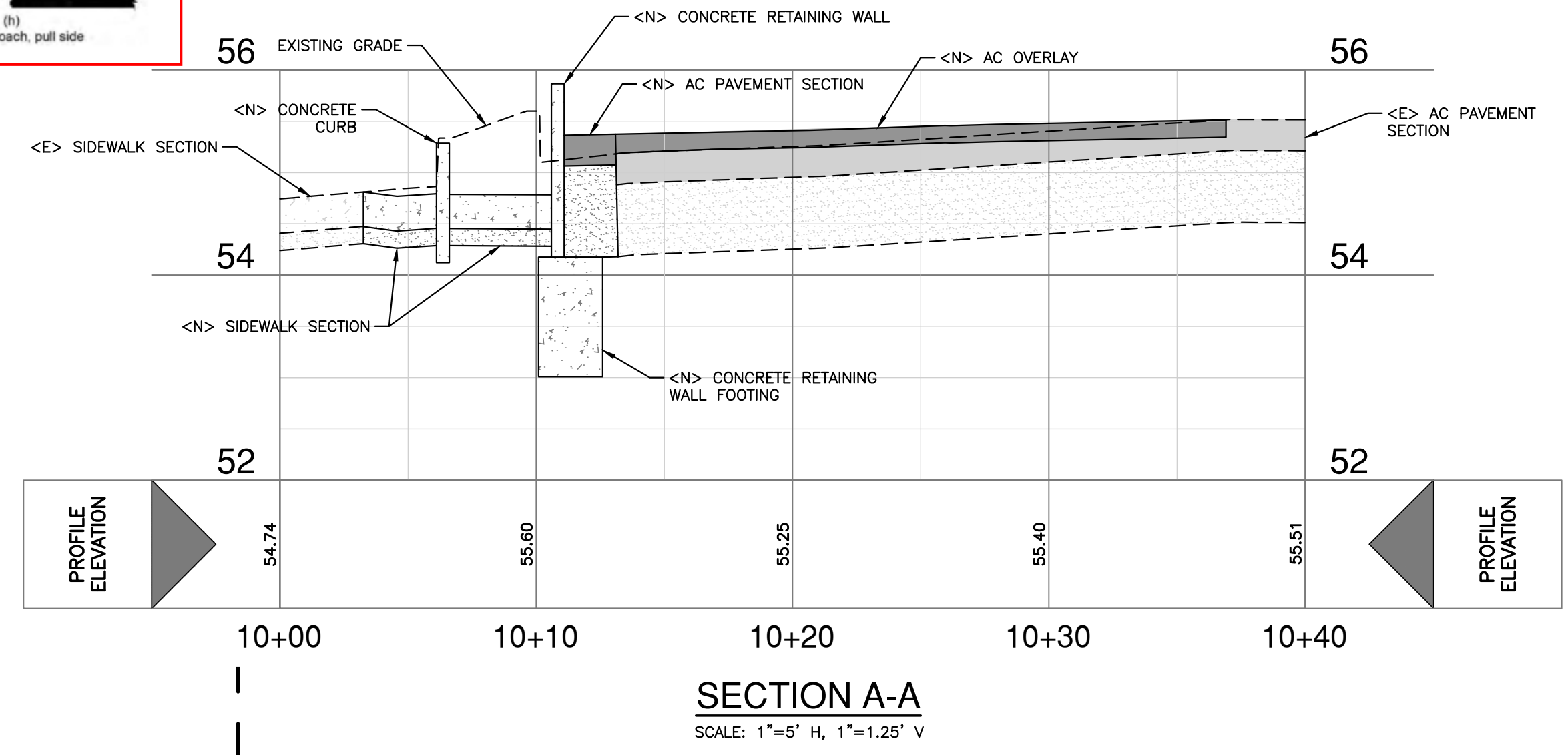
See comment on Sheet A101 regarding maneuvering clearance at exterior side of door. Level maneuvering clearance not provided.



**SITE LEGEND**

PROPERTY LINE	---
EXISTING GRADE BREAK	---
EXISTING CONCRETE CURB OR WALL	---
NEW GRADE BREAK	---
NEW STRIPING	---
NEW CONCRETE CURB OR WALL	---
EXISTING CONCRETE SIDEWALK	---
NEW CONCRETE SIDEWALK	---
EXISTING AC PAVEMENT	---
NEW AC PAVEMENT	---
NEW AC OVERLAY	---
NEW CONCRETE PAVING	---

(X) --- DETAIL LETTER  
 (XX.XX) --- SHEET NUMBER



NO. REVISION DATE	PLAT # JOB NO. 9887.06 DATE FEBRUARY 2024 DESIGNER PAP CHECKED XX DRAWN CLM SHEET C2.00
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**515 J ST ACCESSIBILITY IMPROVEMENTS**  
EUREKA, CALIFORNIA

**SITE PLAN**

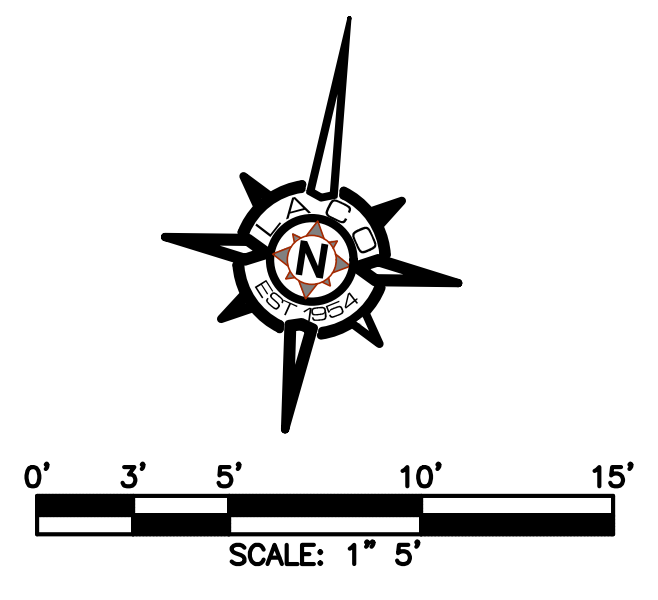
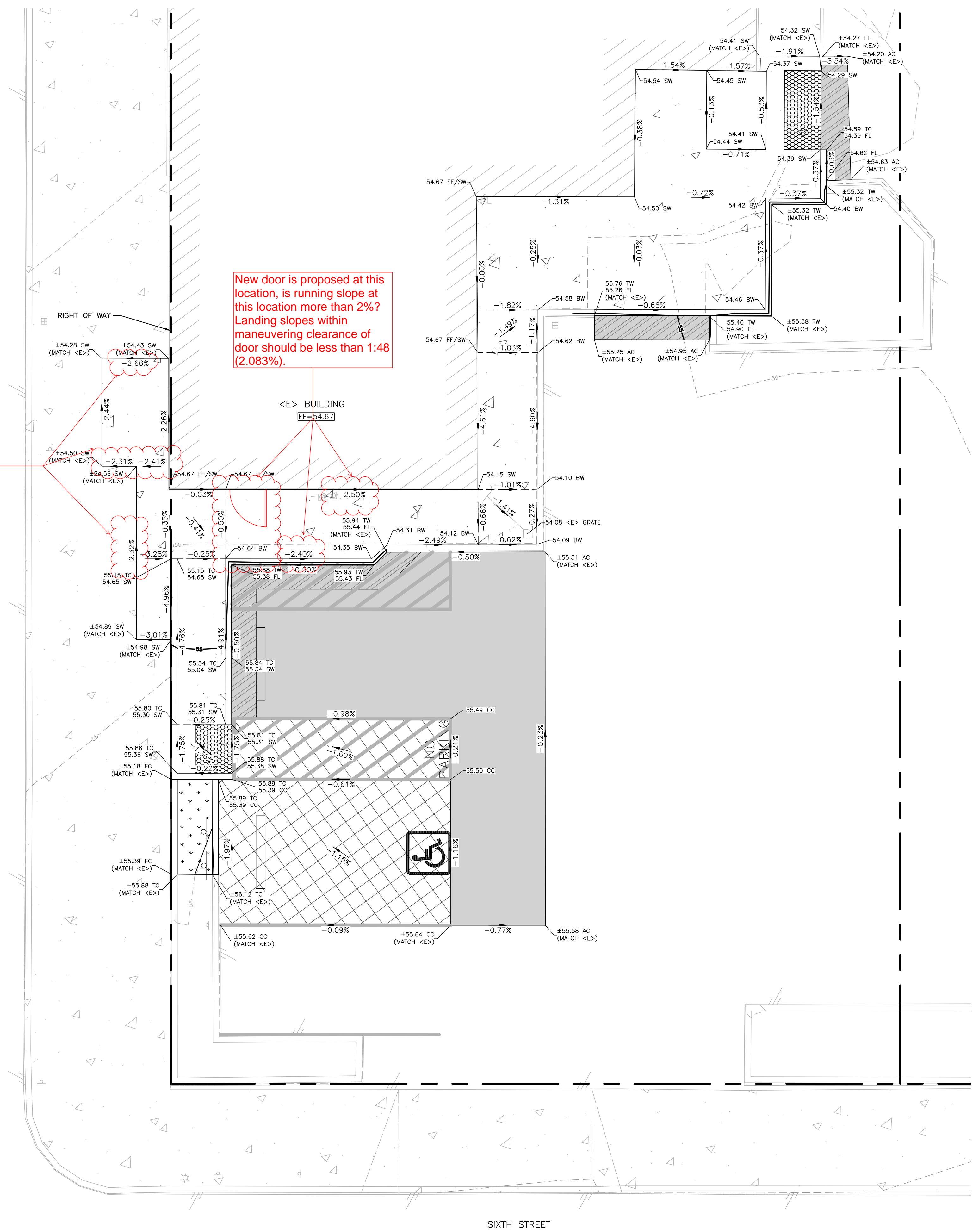
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**TYPICAL:**  
The cross slope of walking surfaces shall not be steeper than 1:48 (2.083%) per 11B-403.3.  
  
Show an accessible route from public sidewalk to facility accessible entrance per 11B-206.2.1.

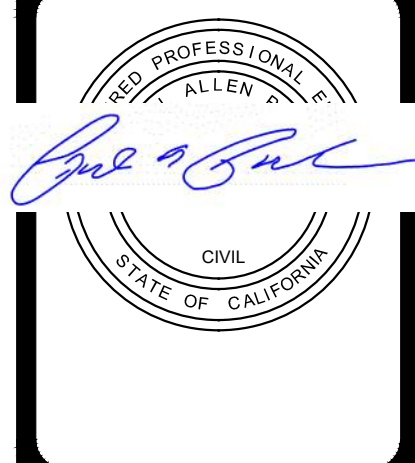
New door is proposed at this location, is running slope at this location more than 2%? Landing slopes within maneuvering clearance of door should be less than 1:48 (2.083%).



**GRADING LEGEND**

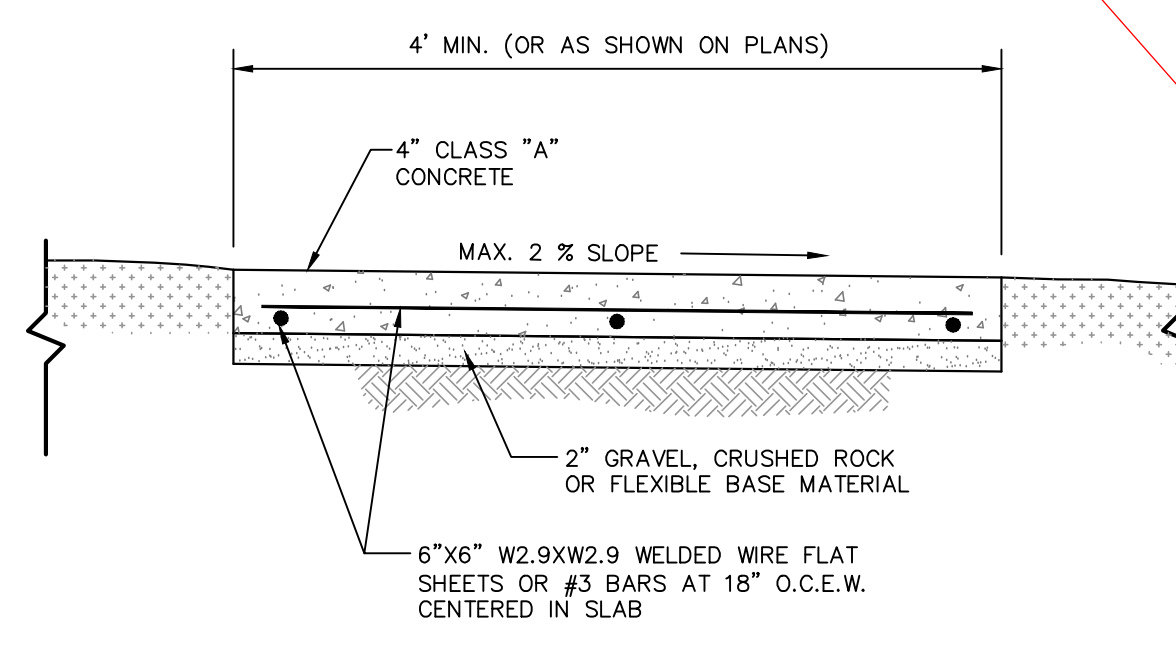
PROPERTY LINE	---
EXISTING CONTOUR	---55---
PROPOSED CONTOUR	---55---
FLOW SLOPE ARROW (PROPOSED)	1.00%
PROPOSED GRADE BREAK	---

DATE	
NO.	REVISION

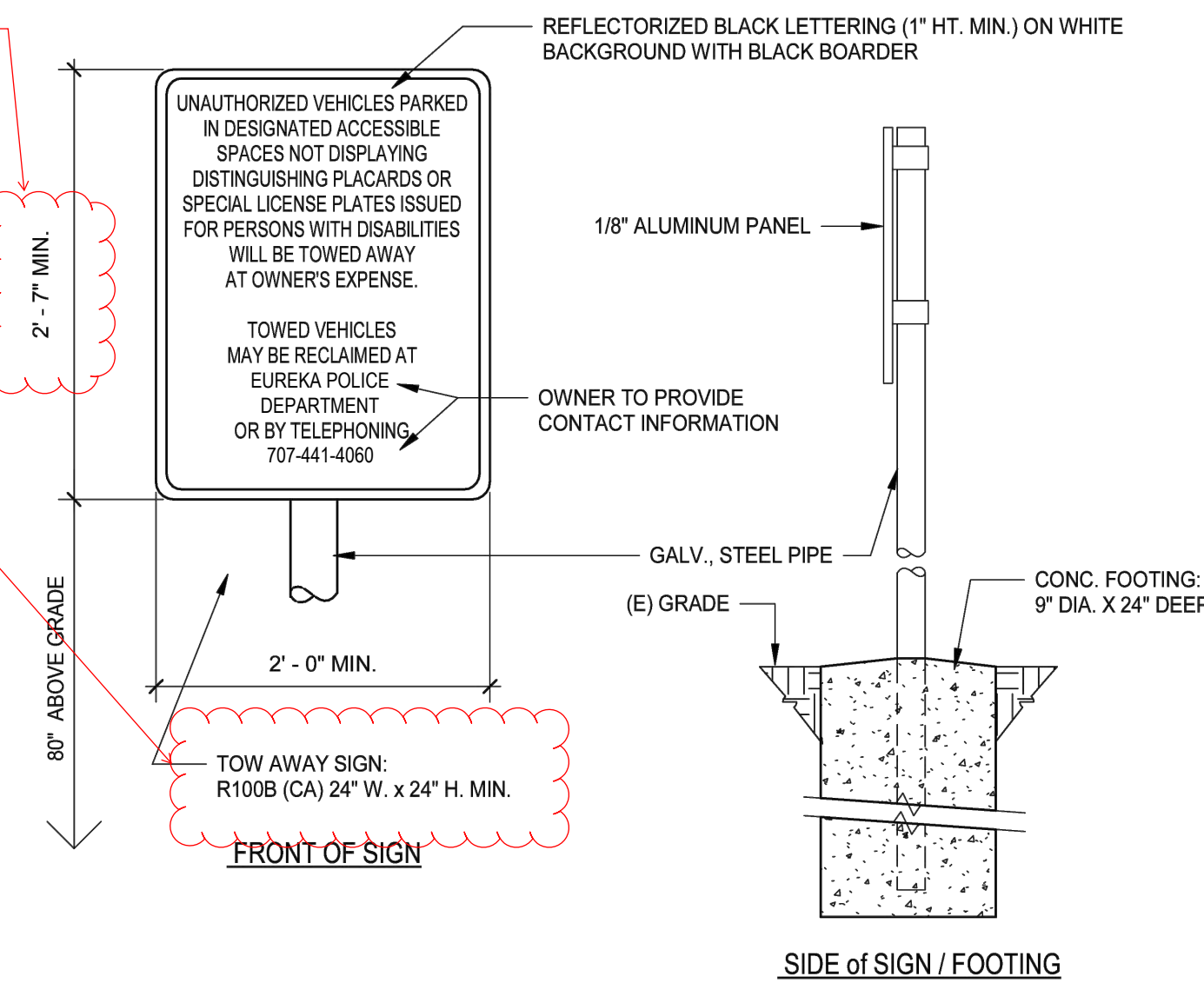


**515 J ST ACCESSIBILITY IMPROVEMENTS**  
EUREKA, CALIFORNIA  
**GRADING PLAN**

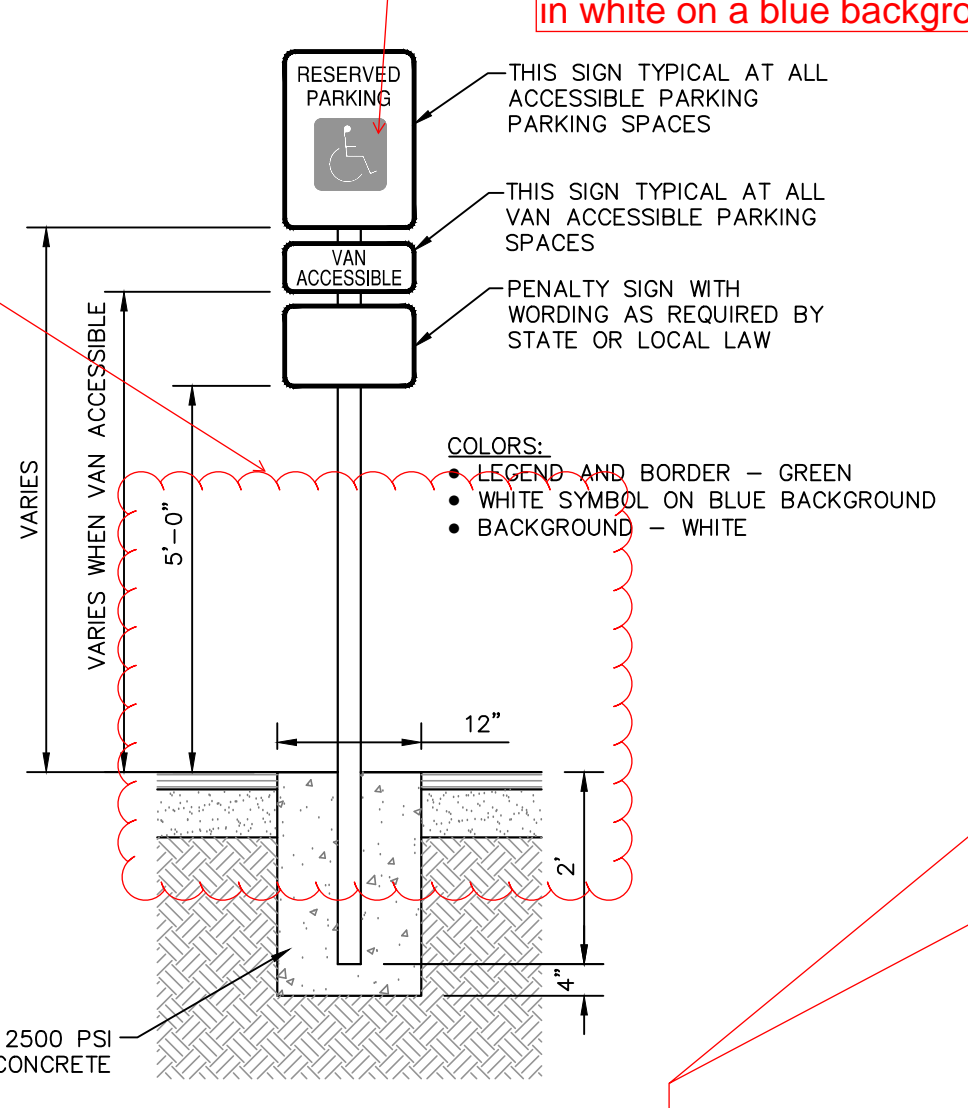
PLAT NO.	PLAT #
JOB NO.	9887.06
DATE	FEBRUARY 2024
DESIGNER	PAP
CHECKED	XX DRAWN CLM
SHEET	C3.00



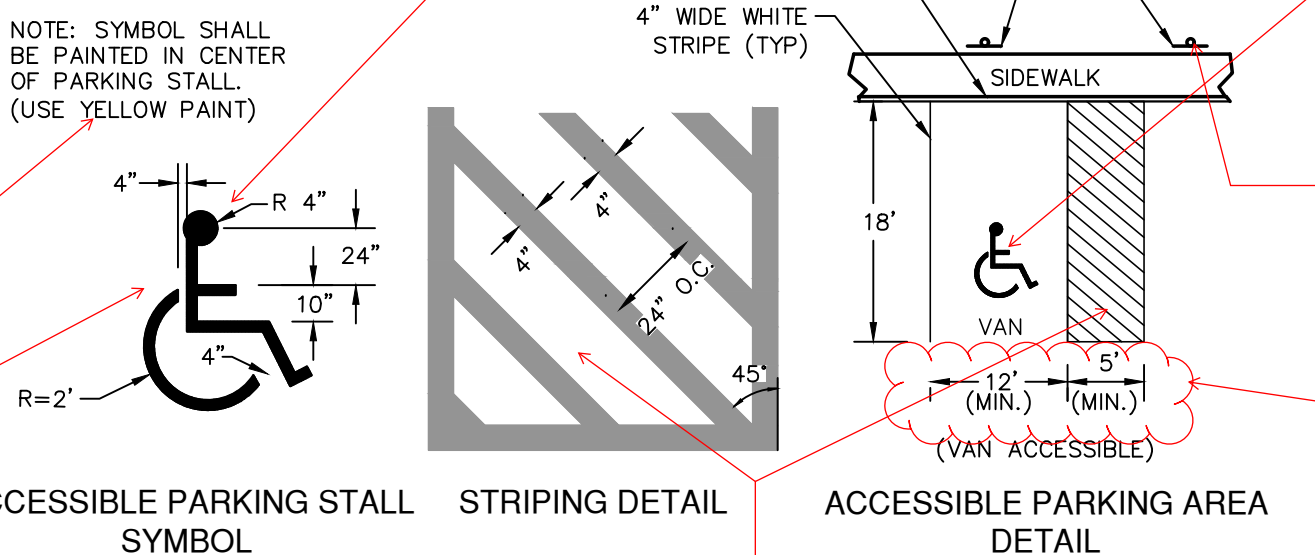
**A** SIDEWALK DETAIL  
NOT TO SCALE



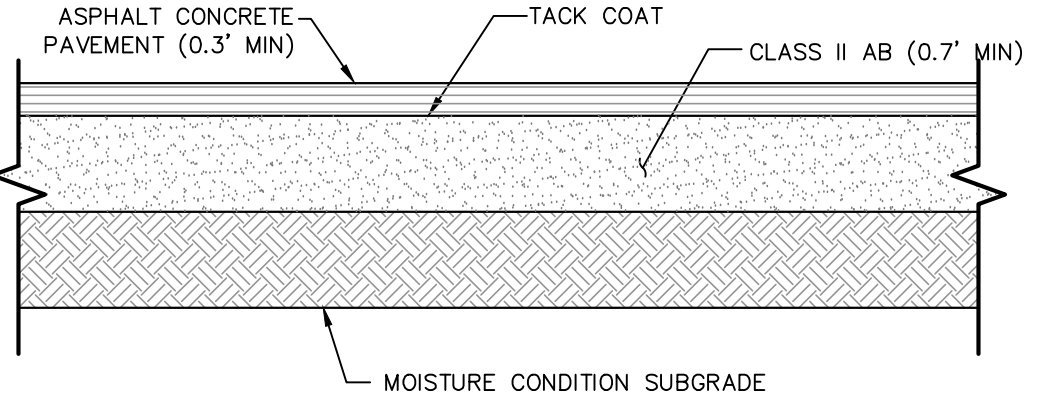
**B** TOW-AWAY SIGN  
NOT TO SCALE



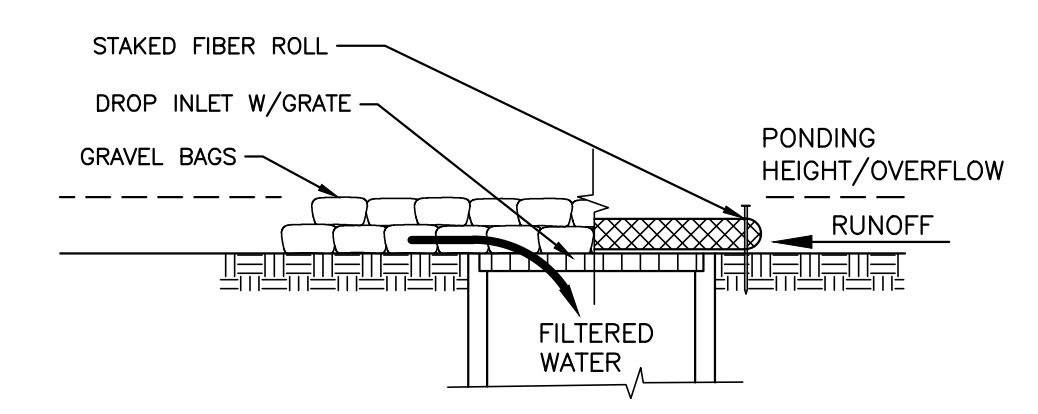
**C** ACCESSIBLE PARKING SIGN DETAIL  
NOT TO SCALE



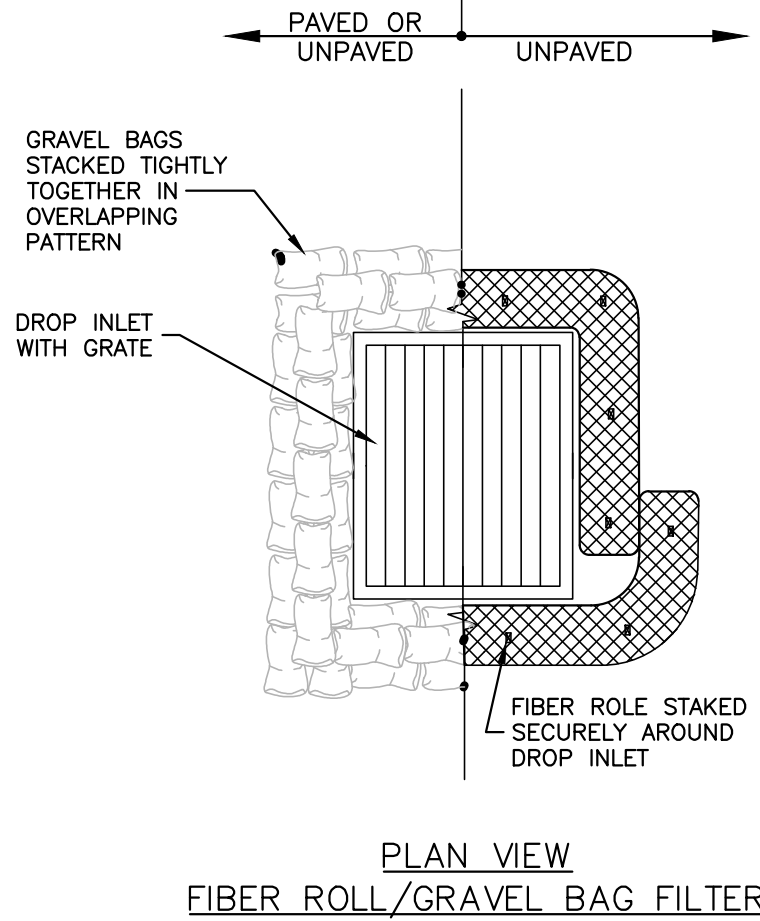
**D** ACCESSIBLE PARKING SYMBOL  
NOT TO SCALE



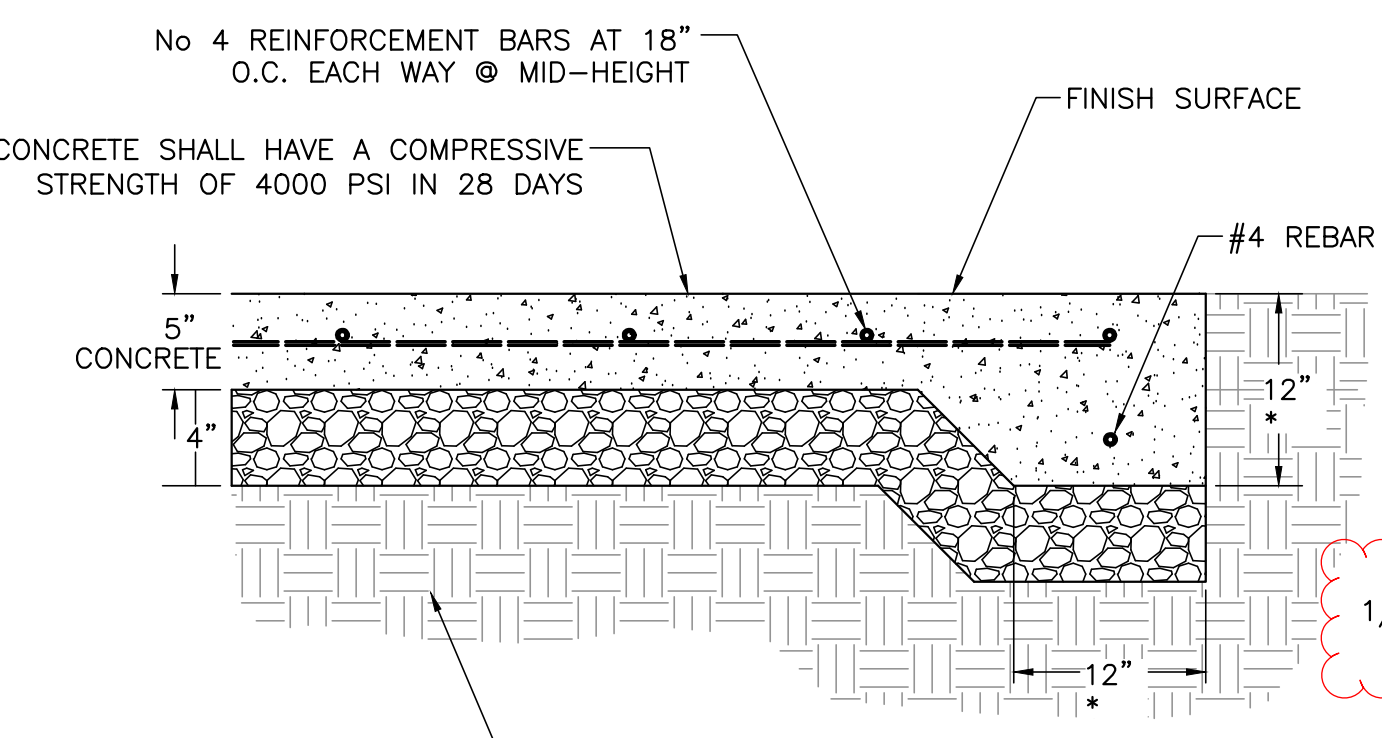
**E** ASPHALT CONCRETE PAVEMENT  
NOT TO SCALE



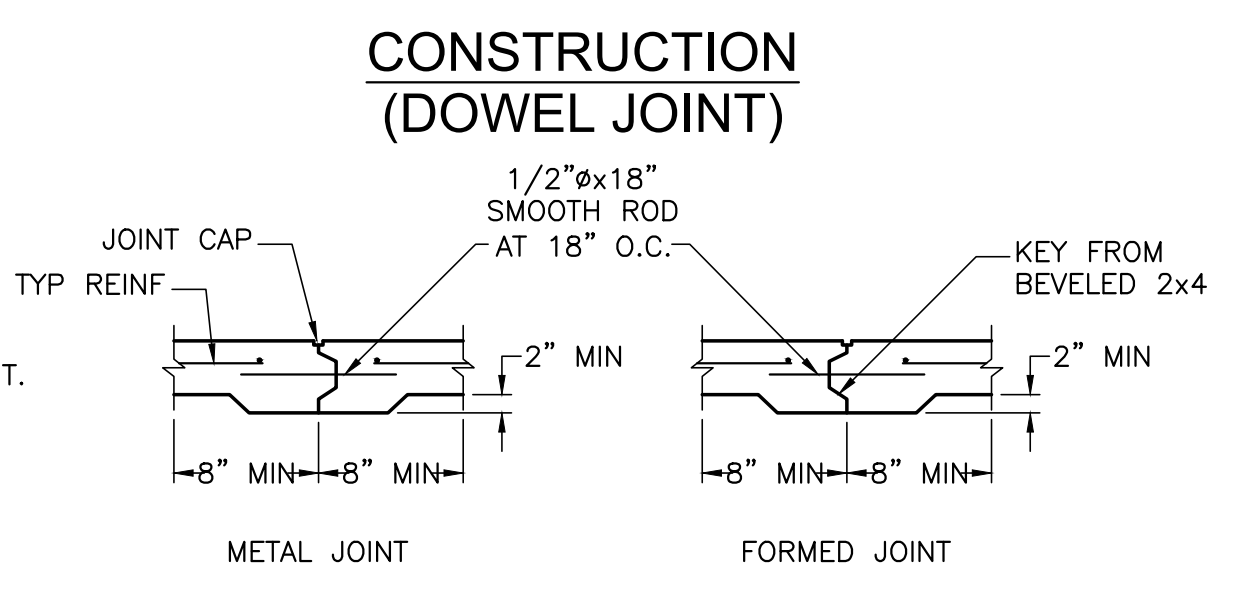
**F** DROP INLET PROTECTION  
NOT TO SCALE



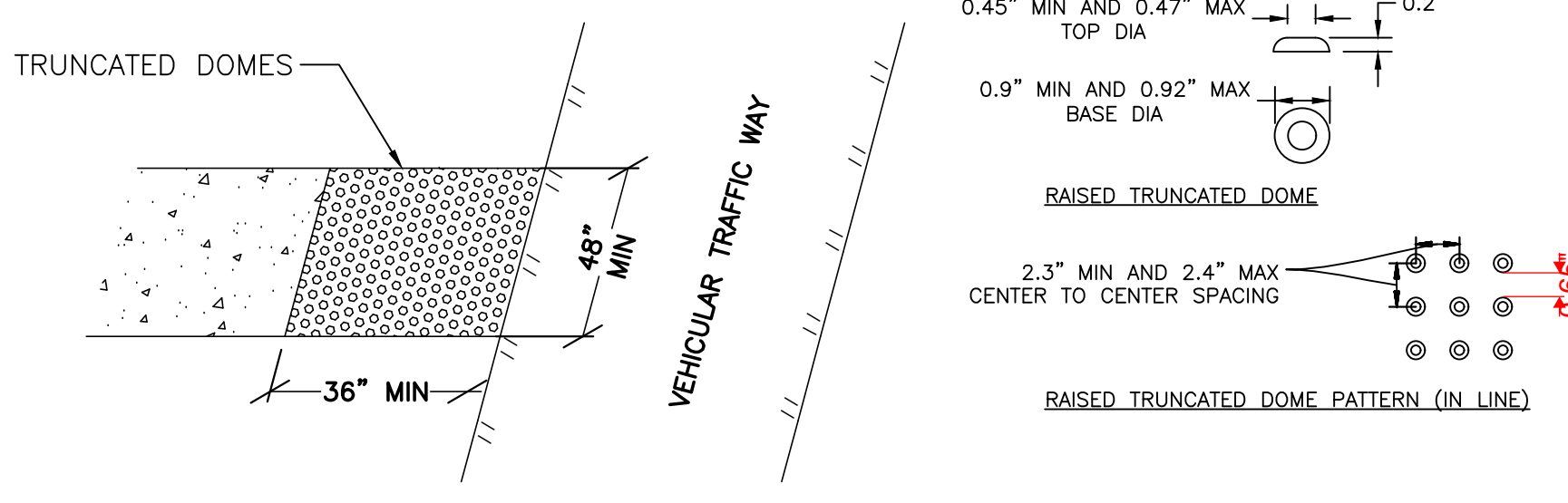
**G** RETAINING WALL DETAIL  
NOT TO SCALE



**H** CONCRETE PAVING DETAIL  
NOT TO SCALE



**I** DETECTABLE WARNING SURFACE (DWS)  
NOT TO SCALE



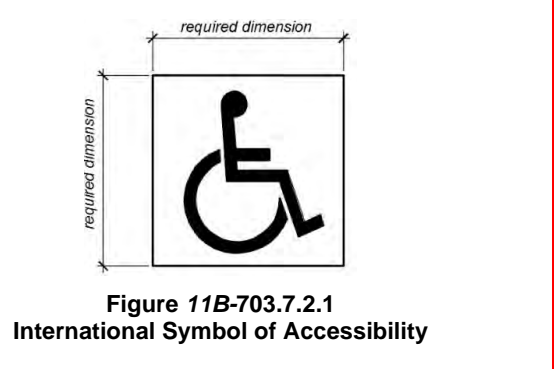
**J** VARIABLE AC OVERLAY (2" MIN)  
NOT TO SCALE

Coordinate dimensions for consistency. 17" min. wide x 22" min. high per 11B-502.8.1.

NOTE: TOOL FORMED CONTROL JOINTS SHALL BE PLACED AT A MAXIMUM OF EVERY 5' ALONG ENTIRE LENGTH OF SIDEWALK.

Per plan, sign is located within the planter box, update drawing to reflect the actual design. 80" min. measured to bottom of sign above finished floor or ground if located within circulation path.

TYPICAL: 11B-502.6 Identification. Parking space identification signs shall include the International Symbol of Accessibility complying with Section 11B-703.7.2.1 in white on a blue background.



TYPICAL: 11B-502.6.4.1 The parking space shall be marked with an International Symbol of Accessibility complying with Section 11B-703.7.2.1 in white on a blue background a minimum 36 inches wide by 36 inches high. The centerline of the International Symbol of Accessibility shall be a maximum of 6 inches from the centerline of the parking space, its sides parallel to the length of the parking space and its lower corner at, or lower side aligned with, the end of the parking space length. Revise detail to ensure compliance and match the actual layout on Sheet C2.00.

Per Sheet C2.00, only one van accessible parking provided. Clarify the intent of this additional accessible parking sign. Revise detail to ensure compliance and match the actual layout on Sheet C2.00.

TYPICAL: The International Symbol of Accessibility shall comply with Figure 11B-703.7.2.1. The symbol shall consist of a white figure on a blue background. The color blue shall approximate FS 15090 in Federal Standard 595C. A border may be provided inside or outside of the minimum required International Symbol of Accessibility dimension. Revise detail to ensure compliance and match the actual layout on Sheet C2.00.

TYPICAL: 11B-502.3.3 Marking. Access aisles shall be marked with a blue painted borderline around their perimeter. The area within the blue borderlines shall be marked with hatched lines a maximum of 36" on center in a color contrasting with that of the aisle surface, preferably blue or white. The words "NO PARKING" shall be painted on the surface within each access aisle in white letters a minimum of 12" in height and located to be visible from the adjacent vehicular way. Access aisle markings may extend beyond the minimum required length. Revise detail to ensure compliance and match the actual layout on Sheet C2.00.

TYPICAL: Car and van parking spaces shall comply with Section 11B-502. Where parking spaces are marked with lines, width measurements of parking spaces and access aisles shall be made from the "centerline" of the markings per 11B-502.1. Revise detail to ensure compliance and match the actual layout on Sheet C2.00.

TYPICAL: Truncated domes in a detectable warning surface shall have a center-to-center spacing of 2.3 inches minimum and 2.4 inches maximum, and a base-to-base spacing of 0.65 inch minimum, measured between the most adjacent domes on a square grid per 11B-705.1.1.2.

NOTE: THICKENED EDGE TO BE CONSTRUCTED AT EDGES OF CONCRETE PAVING BORDERING PLANTER STRIP

TYPICAL: Ensure any expansion joints along accessible route will not allow passage of a sphere more than a 1/2" in diameter per 11B-302.3.

Date: Feb. 28, 2024, 2:05pm User: ID: hcoodm File: J:\Shared\2024\515 J ST Accessibility Improvements\9887.06\_Plan\_COV.dwg



**515 J ST ACCESSIBILITY IMPROVEMENTS**  
EUREKA, CALIFORNIA  
DETAIL SHEET

PLAT NO.	PLAT #
JOB NO.	9887.06
DATE	FEBRUARY 2024
DESIGNER	PAP
CHECKED	XX DRAWN CLM
SHEET	C4.00

**STRUCTURAL PLANS**  
- FOR -  
**ACCESSIBILITY MODIFICATIONS**

515 J STREET  
EUREKA, CA 95501

**BROKAW DESIGN**

P.O. BOX 3103  
ROHNERT PARK, CA 94927

- BY -



**STRUCTURAL**  
ENGINEERS

SHEET INDEX

GENERAL NOTES

- SCS STRUCTURAL COVER SHEET
- SN1 STRUCTURAL NOTES
- SN2 STRUCTURAL NOTES
- SN3 STRUCTURAL NOTES

PLANS

- S1 FOUNDATION PLAN
- S2 DECK FRAMING PLAN

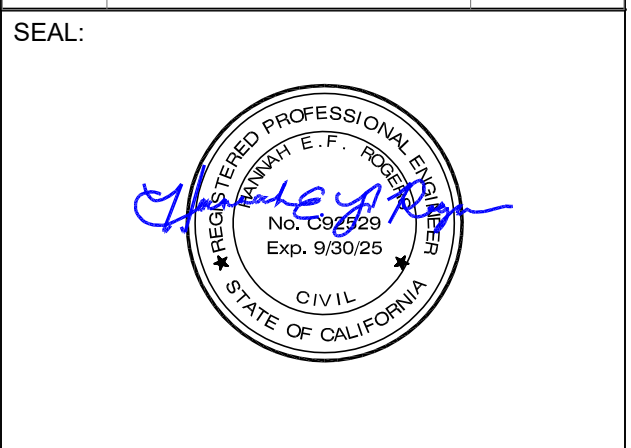
STRUCTURAL DETAILS

- SD0 FOUNDATION DETAILS
- SD1 FOUNDATION DETAILS
- SD3 FRAMING DETAILS

DESIGN PARAMETERS

PROJECT DESIGN CRITERIA					
BUILDING CODE:		2022 CBC			
LOCATION (LATITUDE / LONGITUDE):		40.802033, -124.161263			
GEOTECHNICAL PARAMETERS:					
SOILS ENGINEER:		NOT PROVIDED			
REPORT NUMBER:		-			
DATE:		-			
ALLOWABLE SOIL BEARING PRESSURE:		1,500 PSF (CODE MINIMUM)			
PASSIVE PRESSURE:		150 PCF			
GRAVITY DESIGN PARAMETERS: (PSF, SERVICE LOADS)					
	DEAD	ROOF LIVE	SNOW	LIVE	TOTAL
DECK:	10	-	-	80	90

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



CONSULTANT:

**ISE STRUCTURAL ENGINEERS**  
27369 VIA INDUSTRIA  
TEMECULA, CA 92590  
TELE: 951.600.0032  
WWW.ISEENGINEERS.COM  
SOCAL | NORCAL | COLORADO

**BrokawDesign**  
P.O. BOX 3103  
ROHNERT PARK, CA 94927  
WWW.BROKAWDESIGN.COM

PROJECT:

**ACCESSIBILITY MODIFICATIONS**

515 J STREET  
EUREKA, CA 95501

SHEET NAME:

**STRUCTURAL COVER SHEET**

ISSUE DATE: 1/30/24

PREPARATION AND REVIEW

DRAWN BY: ISE  
DESIGNER: ISE  
PROJ MGR:  
PEER REVIEW: ISE

SHEET NUMBER:

**SCS**

**CONCRETE EXPOSURE REQUIREMENTS**

ACI 318 TABLE 19.3.1.1 - EXPOSURE CATEGORIES AND CLASSES			
CATEGORY	CLASS	CONDITION	
F FREEZING AND THAWING	F0	CONCRETE NOT EXPOSED TO FREEZING-AND-THAWING CYCLES	
	F1	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH LIMITED EXPOSURE TO WATER	
	F2	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER	
	F3	CONCRETE EXPOSED TO FREEZING-AND-THAWING CYCLES WITH FREQUENT EXPOSURE TO WATER AND EXPOSURE TO DEICING CHEMICALS	
S SULFATE	S0	WATER SOLUBLE SULFATE (SO <sub>4</sub> <sup>2-</sup> ) IN SOIL, PERCENT BY WEIGHT <sup>(1)</sup>	DISSOLVED SULFATE (SO <sub>4</sub> <sup>2-</sup> ) IN WATER, PPM <sup>(2)</sup>
	S1	SO <sub>4</sub> <sup>2-</sup> < 0.10	SO <sub>4</sub> <sup>2-</sup> < 150
	S2	0.10 ≤ SO <sub>4</sub> <sup>2-</sup> < 0.20	150 ≤ SO <sub>4</sub> <sup>2-</sup> < 1500
	S3	0.20 ≤ SO <sub>4</sub> <sup>2-</sup> < 2.00	1500 ≤ SO <sub>4</sub> <sup>2-</sup> ≤ 10,000
W IN CONTACT WITH WATER	W0	CONCRETE DRY IN SERVICE	
	W1	CONCRETE IN CONTACT WITH WATER WHERE LOW PERMEABILITY IS NOT REQUIRED	
	W2	CONCRETE IN CONTACT WITH WATER WHERE LOW PERMEABILITY IS REQUIRED	
C CORROSION PROTECTION OF REINFORCEMENT	C0	CONCRETE DRY OR PROTECTED FROM MOISTURE	
	C1	CONCRETE EXPOSED TO MOISTURE BUT NOT TO EXTERNAL SOURCES OF CHLORIDES	
	C2	CONCRETE EXPOSED TO MOISTURE AND AN EXTERNAL SOURCE OF CHLORIDES FROM DEICING CHEMICALS, SALT, BRACKISH WATER, SEAWATER, OR SPRAY FROM THESE SOURCES	

(1) PERCENT SULFATE BY MASS IN SOIL SHALL BE DETERMINED BY ASTM C1580.  
(2) CONCENTRATION OF DISSOLVED SULFATES IN WATER, IN PPM, SHALL BE DETERMINED BY ASTM D516 OR ASTM D4130.

**ACI 318 TABLE 19.3.2.1 - REQUIREMENTS FOR CONCRETE BY EXPOSURE CLASS**

EXPOSURE CLASS	MAX W/CM	MIN f <sub>c</sub>	ADDITIONAL MINIMUM REQUIREMENTS	
			AIR CONTENT	
F0	N/A	2500	N/A	
F1	0.55	3500	PER TABLE 19.3.3.1 FOR CONCRETE AND TABLE 19.3.3.3 FOR SHOTCRETE	
F2	0.45	4500		
F3	0.40*	5000*		
			CEMENTITIOUS MATERIALS <sup>(1)</sup> - TYPES	
			ASTM C150	ASTM C595
S0	N/A	2500	NO TYPE RESTRICTION	NO TYPE RESTRICTION
S1	0.50	4000	TYPES WITH (MS) DESIGNATION	MS
S2	0.45	4500	TYPES WITH (HS) DESIGNATION	HS
S3 (OPTION 1)	0.45	4500	V PLUS POZZOLAN OR SLAG CEMENT <sup>(1)</sup>	HS PLUS POZZOLAN OR SLAG CEMENT <sup>(1)</sup>
S3 (OPTION 2)	0.45	4500	TYPES WITH (HS) DESIGNATION	HS
W0	N/A	2500	NONE	
W1	N/A	2500	26.4.2.2 (d)	
W2	0.5	4000	26.4.2.2 (d)	
			MAXIMUM WATER SOLUBLE CHLORIDE ION (CL <sup>-</sup> ) CONTENT IN CONCRETE, PERCENT BY WEIGHT OF CEMENT <sup>(1)</sup>	
			NON-PRESTRESSED CONCRETE	PRESTRESSED CONCRETE
C0	N/A	2500	1.00	0.06
C1	N/A	2500	0.30	0.06
C2	0.40	5000	0.15	0.06

(1) THE W/CM IS BASED ON ALL CEMENTITIOUS AND SUPPLEMENTARY CEMENTITIOUS MATERIALS IN THE CONCRETE MIXTURE.  
(2) THE MAXIMUM W/CM LIMITS DO NOT APPLY TO LIGHTWEIGHT CONCRETE.  
(3) FOR PLAIN CONCRETE, THE MAXIMUM W/CM SHALL BE 0.45 AND THE MINIMUM F<sub>c</sub> SHALL BE 4500 PSI.  
(4) ALTERNATIVE COMBINATIONS OF CEMENTITIOUS MATERIALS TO THOSE LISTED ARE PERMITTED FOR ALL SULFATE EXPOSURE CLASSES WHEN TESTED FOR SULFATE RESISTANCE AND MEETING THE CRITERIA IN 26.4.2.2(c).  
(5) FOR SEAWATER EXPOSURE, OTHER TYPES OF PORTLAND CEMENTS WITH TRICALCIUM ALUMINATE (C3A) CONTENTS UP TO 10 PERCENT ARE PERMITTED IF THE W/CM DOES NOT EXCEED 0.40.  
(6) OTHER AVAILABLE TYPES OF CEMENT SUCH AS TYPE I OR TYPE III ARE PERMITTED IN EXPOSURE CLASSES S1 OR S2 IF THE C3A CONTENTS ARE LESS THAN 8 PERCENT FOR EXPOSURE CLASS S1 OR LESS THAN 5 PERCENT FOR EXPOSURE CLASS S2.  
(7) THE AMOUNT OF THE SPECIFIC SOURCE OF THE POZZOLAN OR SLAG CEMENT TO BE USED SHALL BE AT LEAST THE AMOUNT THAT HAS BEEN DETERMINED BY SERVICE RECORD TO IMPROVE SULFATE RESISTANCE.  
(8) IF TYPE V CEMENTS USED AS THE SOLE CEMENTITIOUS MATERIAL, THE OPTIONAL SULFATE RESISTANCE REQUIREMENT OF 0.040 PERCENT MAXIMUM EXPANSION IN ASTM C150 SHALL BE SPECIFIED.  
(9) THE MASS OF SUPPLEMENTARY CEMENTITIOUS MATERIALS USED IN DETERMINING THE CHLORIDE CONTENT SHALL NOT EXCEED THE MASS OF THE PORTLAND CEMENT.  
(10) CRITERIA FOR DETERMINATION OF CHLORIDE CONTENT ARE IN 26.4.2.2.  
(11) CONCRETE COVER SHALL BE IN ACCORDANCE WITH 20.5.

**EARTHWORK AND FOUNDATIONS**

1. GEOTECHNICAL REPORT: PERFORM SOILS WORK COMPLYING WITH FOUNDATION DESIGN BASED ON RECOMMENDATIONS IN SOILS REPORT. SEE STRUCTURAL COVER SHEET FOR SOILS REPORT NUMBER AND DATE.
2. ALLOWABLE FOUNDATION DESIGN VALUES PER GEOTECHNICAL REPORT: VALUES BELOW MAY BE INCREASED 33 PERCENT FOR TRANSIENT LOADING.  
A. BEARING CAPACITY: SEE PROJECT DESIGN CRITERIA  
B. PASSIVE LATERAL BEARING PRESSURE: SEE PROJECT DESIGN CRITERIA  
C. COEFFICIENT OF FRICTION: SEE PROJECT DESIGN CRITERIA
3. 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.
4. PREPARATION OF SOIL UNDER BUILDING PAD: SEE GEOTECHNICAL REPORT FOR OVER-EXCAVATION OF EXISTING SOIL AND INSTALLATION OF PROPERLY COMPACTED BACKFILL.
5. 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 CLEAN, DRY AND FREE OF DEBRIS OR LOOSE SOIL. SOIL EXCAVATION NOT LESS THAN MINIMUM SLOPE INDICATED IN GEOTECHNICAL REPORT. CAST CONCRETE DIRECTLY AGAINST EXCAVATED SURFACES.
6. 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.
7. 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 SCOUTS, ROOF DRAINS AND SCUPPERS IS NOT PERMITTED UNTO UNPROTECTED SOILS WITHIN FIVE FEET OF BUILDING PERIMETER. REFER TO GEOTECHNICAL REPORT FOR COMPLETE REQUIREMENTS.

**CONCRETE**

1. 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.
2. 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.
3. 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	STRENGTH, f <sub>c</sub>	WATER / CEMENT RATIO	MAX. SLUMP
SLAB ON GRADE	2,500 PSI	0.65	6"
FOOTING & GRADE BEAM	2,500 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 CLEAR COVER FOR CAST-IN-PLACE CONCRETE MEMBERS			
CONCRETE EXPOSURE	MEMBER	REINFORCEMENT	SPECIFIED COVER
SLAB ON GRADE	ALL	ALL	CENTER OF SLAB OR 2" MIN
CONCRETE AGAINST & PERMANENTLY IN CONTACT WITH GROUND:	ALL	ALL	3"
EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	ALL	No. 6 THROUGH No. 18 BARS	2"
		No. 5 BAR, W31 OR D31 WIRE, AND SMALLER	1-1/2"
		No. 14 AND No. 18 BARS	1-1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	SLABS, JOISTS, AND WALLS	No. 11 BAR AND SMALLER	3"
	BEAMS, COLUMNS, PEDESTALS, AND TENSION TIES	PRIMARY REINFORCEMENT, STIRRUPS, TIES, SPIRALS, AND HOOPS	1-1/2"

5. VIBRATION: VIBRATION OF CONCRETE SHALL BE IN ACCORDANCE WITH GENERAL PROVISIONS OUTLINED IN PORTLAND CEMENT ASSOCIATION SPECIFICATION ST26.
6. 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.
7. 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.
8. ANCHOR BOLTS, DOWELS, INSERTS: SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.
9. CONSTRUCTION AND POUR JOINTS: LOCATIONS SHALL BE APPROVED BY ENGINEER PRIOR TO POURING CONCRETE.
10. FLY ASH: SHALL NOT BE USED IN CONCRETE.
11. 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 S-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.
  - B. 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.

**ABBREVIATIONS**

#	NUMBER OR POUND	EF	EACH FACE	OH	OVERHANG
(E)	EXISTING	EJ	EXPANSION INDEX	OMF	ORDINARY MOMENT
±	APPROXIMATE	EJ	EXPANSION JOINT	OPEN	FRAME
A/E	ARCHITECT/ENGINEER	ELE	ELEVATION	OPP	OPENING
AB	ANCHOR BOLT	EMB	EMBED	OWSJ	OPEN WEB STEEL JOIST
ABV	ABOVE	EN	EDGE NAILING	OWWJ	OPEN WEB WOOD JOIST
ACI	AMERICAN CONCRETE INSTITUTE	EQ	EDGE OF SLAB	PAF	POWDER ACTUATED FASTENER
ADDL	ADDITIONAL	EQ	EQUAL	PERF	PERFORATED
ADDM	ADDENDUM	EQ SP	EQUALLY SPACED EQUIPMENT	PERP	PERPENDICULAR
ADI	ADJACENT	EQ SUP	EQUAL SPACING	PI	PLASTICITY INDEX
ADMIN	ADMINISTRATION	ES	EDGE SCREWS	PL	PLATE
AFF	ABOVE FINISH FLOOR	EW	EACH WAY	PLBG	PLUMBING
AHR	ANCHOR	EWB	ENGINEERED WOOD BEAM	PLYWD	PLYWOOD
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	EXP	EXPANSION	PNL	PANEL
AJ	ALIGN JOIST	EXT	FACE OF	PREFAB	PREFABRICATED
ALT	ALTERNATE	FA	FROM ABOVE	PSF	POUNDS PER SQUARE FOOT
ALUM	ALUMINUM	FAS BD	FASCIA BOARD	PSI	POUNDS PER SQUARE INCH
APA	AMERICAN PLYWOOD ASSOCIATION	FDN	FOUNDATION	PT	PARALLEL STRAND LUMBER
APD	APPROVED	FF	FINISHED FLOOR	PSL	PRESSURE TREATED
APPX	APPROXIMATE	FFA	FROM FLOOR ABOVE	P-T	PART TENSIONED
ARCH	ARCHITECTURAL	FFB	FROM FLOOR BELOW	PUR	PURLINS
ASD	ALLOWABLE STRESS DESIGN	FG	FINISHED GRADE	RC	REINFORCED CONCRETE
ASPH	ASPHALT	FH	FULL HEIGHT	REF	REFERENCE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	FIN	FINISH	REINF	REINFORCEMENT
ATC	ACUSTICAL TILE CEILING	FLG	FLOOR JOIST	REPL	REPLACE
ATCH	ATTACHMENT	FNGR	FINGER	REQ	REQUIRED
ATS	ANCHOR TIEDOWN SYSTEM	FOC	FACE OF CONCRETE	REQD	REQUIRED
AWA	ALIGN WITH ABOVE	FOF	FACE OF FINISH	RET	RETAINING
AWN	AWNING	FORM	FACE OF MASONRY	REV	REVISION
AWS	AMERICAN WELDING SOCIETY	FOS	FACE OF STUD	RF	ROOF
B/B	BACK TO BACK	FOUN	FOUNDATION	RFG	ROOFING
BAL	BALANCE	FRM	FRAMING	RFI	REQUEST FOR INFORMATION
BALC	BALCONY	FRT	FIRE RETARDANT	RFM	ROOM
BD	BOARD	TREAT	TREATED	RO	ROUGH OPENING
BDRY	BOUNDARY	FTNR	FEET	SAD	SEE ARCHITECTURAL DRAWINGS
BL	BEVEL	FTG	FOOTING	SCHD	SCHEDULE
BLK	BLOCK	FURR	FURRING	SECT	SECTION
BLKG	BLOCKING	FWRK	FLATWORK	SHTG	SHIELDING
BLW	BELOW	GA	GAUGE	SIM	SIMILAR
BM	BOUNDARY NAILING	GALV	GALVANIZED	SMF	SPECIAL MOMENT FRAME
BOB	BOTTOM OF BEAM	GLZ	GLAZING	SMS	SHEET METAL SCREWS
BOW	BOTTOM OF WALL	GR	GRADE	SN	STRUCTURAL STEEL
BP	BASE PLATE	GR BM	GRADE BEAM	SOG	SLAB ON GRADE
BRCS	BRACING	GT	GIRDER TRUSS	SPEC	SPECIFICATIONS
BRC	BEARING	GY	GYPSUM	SPF	SPRUCE PINE FIR
BS	BOUNDARY SCREWS	GY-CRET	GYPSUM CONCRETE	SPN	SOLE PLATE NAILING
BSMT	BASEMENT	HT	HOLDOWN	SQ	SQUARE
BTM	BOTTOM	HDR	HEADER	SQSH	SQUASH
BTR	BETTER	HDWR	HARDWARE	SS	STAINLESS STEEL
BTVN	BETWEEN	HF	HANGER	STAGG	STAGGER
C	CAMBER	HGT	HEIGHT	STD	STANDARD
CANT	CANTILEVER	HORZ	HORIZONTAL	STIFF	STIFFENER
CBC	CALIFORNIA BUILDING CODE	HS	HIGH STRENGTH	STR	STIRRUP
CD	CONSTRUCTION DOCUMENTS	HSS	HOLLOW STRUCTURAL SECTION	STL	STRUCTURAL
CIP	CAST IN PLACE CONSTRUCTION JOINT	HT	HEIGHT	STS	SELF TAPPING SCREWS
CJ	OR CONTROL JOIST	HVC	HEAVY	SUPPL	SUPPLEMENTAL
CIP	COMPLETE JOINT	IBY	INTERNATIONAL BUILDING CODE	SW	WEAR WELD
CL	CENTERLINE	IBC	INTERNATIONAL BUILDING CODE	SYM	SYMMETRICAL
CLD	CLADDING	ID	INSIDE DIAMETER	T&B	TOP AND BOTTOM TONGUE AND GROOVE
CLG	CEILING	IN	INCH	TBA	TO BEAM ABOVE
CLL	COLUMN LINE	INC	INCREMENT	TBB	TO BEAM BELOW
CLR	CLEAR	INFO	INFORMATION	TEMP	TEMPORARY
CMU	CONCRETE MASONRY UNIT	INSUL	INSULATION	TFA	TO FLOOR ABOVE
CNTOR	CONTRACTOR	INT	INTERIOR	TFB	TO FLOOR BELOW
COL	COLUMN	INT	JOINT	THK	THICKNESS
CONC	CONCRETE	JST	JOIST	THRD	THREADED
COND	CONDITION	KSF	KIPS PER SQUARE FOOT	THRU	THROUGH
CONN	CONNECTION	KWY	KEYWAY	TOB	TOP OF BEAM
CONT	COUNTERSINK	L	LINEAR FOOT	TOI	TOP OF JOIST
C/SINK	CENTERED	LF	LIVE LOAD	TOT	TOP OF TISS
CVIF	CONTRACTOR TO VERIFY IN FIELD	LL	LONG LEG HORIZONTAL	TOW	TOP OF WALL
DB	DROP BEAM	LVL	LONG LEG VERTICAL	TP	TOP PLATE
DBL	DOUBLE	LONGIT	LONGITUDINAL	TRNSV	TRANSVERSE
DEMO	DEMOLISH	LUMBR	LUMBER	TRYP	TYPICAL
DEPT	DEPARTMENT	LST	LAMINATED STRAND LUMBER	UNO	UNLESS NOTED OTHERWISE
DF	DOUGLAS FIR	LT WT	LIGHT WEIGHT	URM	UNREINFORCED MASONRY UNIT
DIA	DIAGONAL	LVL	LAMINATED VENEER LUMBER	VERT	VERTICAL
DIAG	DIAGONAL	MAX	MAXIMUM	VERIF	VERIFY IN FIELD
DIM	DIMENSION	MFR	MACHINE BOLTS	W	WIDE
DIST	DISTRIBUTED	MCH	MECHANICAL	W/	WITH
DJ	DECK JOIST	MFR	MANUFACTURER	W/O	WITHOUT
DL	DEAD LOAD	MID	MIDDLE	WD	WOOD
DN	DOWN	MIN	MINIMUM	WF	WIDE FLANGE
DP	DEEP	MIRR	MIRROR	WHS	WELDED HEADED STUD
DR	DROP	MISC	MISCELLANEOUS	WO	WHERE OCCURS
DTL	DETAIL	MOD	MASONRY OPENING	WPM	WATER PROOF MEMBRANE
DWG	DRAWING	MOD	MODULE	WT	WEIGHT
EA	EACH	MTR	MATERIAL	WR	WEATHER RESISTANCE
ED	EDGE DISTANCE	MULT	MULTIPLE	WWM	WELDED WIRE MESH
		N/A	NOT APPLICABLE		
		N/P	NOT PROVIDED		
		N/C	NOT IN CONTRACT		
		N/S	NOT TO SCALE		
		Ø	DIAMETER		
		Ø	ON CENTER		
		OD	OUTSIDE DIAMETER		

**GENERAL NOTES**

1. 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 FOR 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.
3. 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.
4. 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.
  - A. 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.
  - B. 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.
  - C. 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.
  - E. ERECTION PLANS: DETERMINE PHASES OF WORK REQUIRING ERECTION PLANS ACCORDING TO APPLICABLE SAFETY REGULATIONS. MAINTAIN CERTIFIED COPIES OF ERECTION PLANS AT SITE DURING CONSTRUCTION.
  - F. 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 ALL EXPOSED WALLS AND SLABS SUPPORTING CONCRETE OR MASONRY WALLS DURING AND AFTER WALL POUR UNTIL WALL ATTAINS DESIGN STRENGTH.
  - G. TEMPORARY LOADING: 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

REINFORCING STEEL

- 1. REINFORCING STEEL: A. ALL BARS, U.N.O.: ASTM A615, GRADE 60 B. BARS TO BE WELDED: ASTM A706, 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 10,000 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. 2. 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 STRIRUPS (D4 AND LARGER ONLY): ASTM A497, FY=65 KSI. C. SPIRAL REINFORCING: ASTM A82, GRADE 60 3. 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. 4. 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. 5. MINIMUM CLEARANCES BETWEEN PARALLEL REINFORCING STEEL INCLUDING DISTANCE BETWEEN SETS OF SPLICED BARS: 1" OR 1 db, WHICHEVER IS GREATER. 1 1/2" OR 1 1/2 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. 6. DOWELS AT CONSTRUCTION JOINTS: PROVIDE DOWELS MATCHING SIZE AND QUANTITY OF REINFORCING STEEL INTERRUPTED AT CONSTRUCTION JOINTS, UNLESS DETAILED OTHERWISE. 7. 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. 8. BARS TERMINATING AT WALLS, COLUMNS, BEAMS, AND FOUNDATIONS: EXTEND BARS TO 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. 9. BARS INTERRUPTED BY STRUCTURAL STEEL: EXTEND BARS TO WITHIN 2" OF STEEL FACE AND PROVIDE STANDARD ACI 90-DEGREE HOOK UNLESS DETAILED OTHERWISE. 10. 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. 11. 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). 12. LAP SPLICES: PROVIDE CLASS B SPLICES UNLESS INDICATED OTHERWISE.

CONVENTIONAL WOOD FRAMING REQUIREMENTS - CBC TABLE 2304.10.2

Table with 2 columns: CONNECTION and NAILING. Lists various framing connections like blocking between joists, ceiling joist to top plate, and ledger strip, with corresponding nail specifications.

WOOD HARDWARE NAILING SCHEDULE

Table with 4 columns: MODEL NAME, CAPACITY (LBS), FASTENER SCHEDULE, APPLICATION, MODEL NAME. Lists hardware items like SSTD20, SSTD24, SSTD28, SB1x30, A34, A35, LTP4, LSP5, LSS5, CS16, CS14, CMSTC16, CMST14, CMST12, and nail types for shear walls and sheathings.

PROPRIETARY ANCHORAGES AND FASTENERS

- 1. ANCHORAGES: 1.1. DRILL AND EPOXY ANCHORS: SIMPSON SET-XP EPOXY ADHESIVE SYSTEM USING THREE-ROD STEEL RODS CONFORMING TO ASTM F1554, GRADE 36, OR REINFORCING STEEL CONFORMING TO ASTM A615 OR A706, GRADE 60, COMPLYING WITH ICC ESR 2508. 1.2. SIMPSON 3G EPOXY ADHESIVE SYSTEM USING THREE-ROD STEEL RODS CONFORMING TO ASTM F1554, GRADE 36, OR REINFORCING STEEL CONFORMING TO ASTM A615 OR A706, GRADE 60, COMPLYING WITH ICC ESR 4057. 1.3. MECHANICAL ANCHORS: 1.3.1. HILTI KWIK BOLT-III CARBON STEEL EXPANSION ANCHORS COMPLYING WITH ICC ESR-1385. 1.3.2. HILTI KWIK BOLT-CARBON STEEL EXPANSION ANCHORS COMPLYING WITH ICC ESR 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 FILL FULLED, HEADED STUD ANCHORS, 60,000 PSI MINIMUM ULTIMATE TENSILE STRENGTH, AUTOMATICALLY END WELDED IN FIELD CONFIRMING TO ASTM A108 AND COMPLYING WITH ICC ESR REPORT NO. 2856. 1.5. WELDED DEFORMED ANCHORS: NELSON D2L, COLD ROLLED, DEFORMED STEEL REINFORCING BARS CONFORMING TO ASTM A496 AND COMPLYING WITH ICC ESR REPORT NO. 2907. 2. FASTENERS: 2.1. POWDER ACTUATED FASTENERS: HILTI XCP, COMPLYING WITH CURRENT ICC ESR REPORT NO. 2379. PROVIDE APPROPRIATE WASHER BETWEEN FASTENER HEAD AND LIGHT GAUGE METAL OR WOOD SURFACE. 2.1.1. POWDER-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 ESR REPORT. MINIMUM YIELD STRESS, FY=93 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, STAPLES, 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. 3. INSTALLATION: SEE MANUFACTURERS WRITTEN INSTRUCTIONS AND REFERENCED ICC ESR REPORT. 4. TESTING FOR DRILL AND EPOXY ANCHORS: 4.1. SPECIAL INSPECTION: SPECIAL INSPECTOR WILL PERFORM CONTINUOUS SPECIAL INSPECTION DURING INSTALLATION. 5. 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. 6. 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 1/2" INCH PRIOR TO DRILLING HOLES TO AVOID CUTTING OR DAMAGING. HOLES SHALL BE THOROUGHLY CLEANED PER MANUFACTURERS WRITTEN RECOMMENDATIONS PRIOR TO INSTALLATION OF ANCHORAGES. 7. 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.

WOOD FRAMING

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

Table with 2 columns: CONDITION and GRADE. Lists lumber grades for various conditions like blocking, studs, rafters, and headers.

- 2. GRADE STAMPS: WHERE POSSIBLE ALL LUMBER GRADE STAMPS SHALL REMAIN ON LUMBER AFTER INSTALLATION. CONVENTIONAL LUMBER SHALL MEET DOC PS 20 REQ. 3. 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. 4. 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 COVERED WITH EXTERIOR TYPE GLUE LAMINATED APA SPECIFICATIONS. PANELS PERMANENTLY EXPOSED TO THE OUTDOORS SHALL BE EXTERIOR TYPE. 5. 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. 6. 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. 7. BOLT HOLES: IN WOOD SHALL BE 1/32" TO 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. 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. 8. 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. 9. 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. 10. JOIST HANGERS: FOR I-JOISTS, PROVIDE SIMPSON 'IUS' HANGER. FOR CONVENTIONAL JOIST, USE SIMPSON 'LUS' HANGER, OR EQUIVALENT. 11. BEAM BEARING: ALL BEAMS TO BE SUPPORTED WITH FULL BEARING UNLESS NOTED OTHERWISE. 12. CONVENTIONAL FRAMING: ALL CONVENTIONAL FRAMED PORTIONS OF THE STRUCTURE ARE TO BE CONSTRUCTED PER CBC SECTION 2308. 13. WALLS ON WOOD FLOOR: PROVIDE SINGLE FLOOR JOIST BELOW NON-BEARING, PARALLEL WALLS 10'-0" OR LONGER. 14. 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 WWFPA'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. 15. PLATE WASHERS AT NON-SILL PLATE APPLICATION: MINIMUM SIZE FOR SQUARE PLATE WASHERS: (REFER TO PLANS FOR SILL PLATE WASHER REQUIREMENTS.)

Table with 2 columns: BOLT SIZE and PLATE WASHER SIZE. Lists required plate washer sizes for different bolt sizes.

NAILS

- 1. 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 MANUFACTURERS REQUIREMENTS. OTHERWISE SHORT NAILS MAY BE USED. NAILING SHALL BE PER THE BUILDING CODE UNLESS NOTED OTHERWISE ON THE PLANS OR DETAILS. 2. NAIL GUNS: MUST BE EQUIPPED WITH A FLUSH NAILER ATTACHMENT FOR NAILING OF PLYWOOD SHEAR WALLS, FLOOR SHEATHING AND ROOF SHEATHING. 3. NAIL MANUFACTURING: ALL NAILS MUST BE DOMESTICALLY MANUFACTURED & MEET THE REQUIREMENTS OF THE CURRENT BUILDING CODE. 4. 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.

REVISION SCHEDULE

Table with 3 columns: NO., DESCRIPTION, DATE. Empty table for tracking revisions.

SEAL:



CONSULTANT:

ISE STRUCTURAL ENGINEERS logo and address: 27369 VIA INDUSTRIAL, TEMECULA, CA 92590, WWW.ISEENGINEERS.COM

BrokawDesign

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ACCESSIBILITY MODIFICATIONS

515 J STREET, EUREKA, CA 95501

SHEET NAME:

STRUCTURAL NOTES

Table with 2 columns: ISSUE DATE, PREPARATION AND REVIEW. Lists issue date 1/30/24 and roles for ISE.

SN2











1

2

3

4

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A

B

C

D

E

A

B

C

D

E

**SLAB & FOOTING SPECIFICATIONS	
LABEL	
(B)	18" BELOW LOWEST ADJACENT GRADE

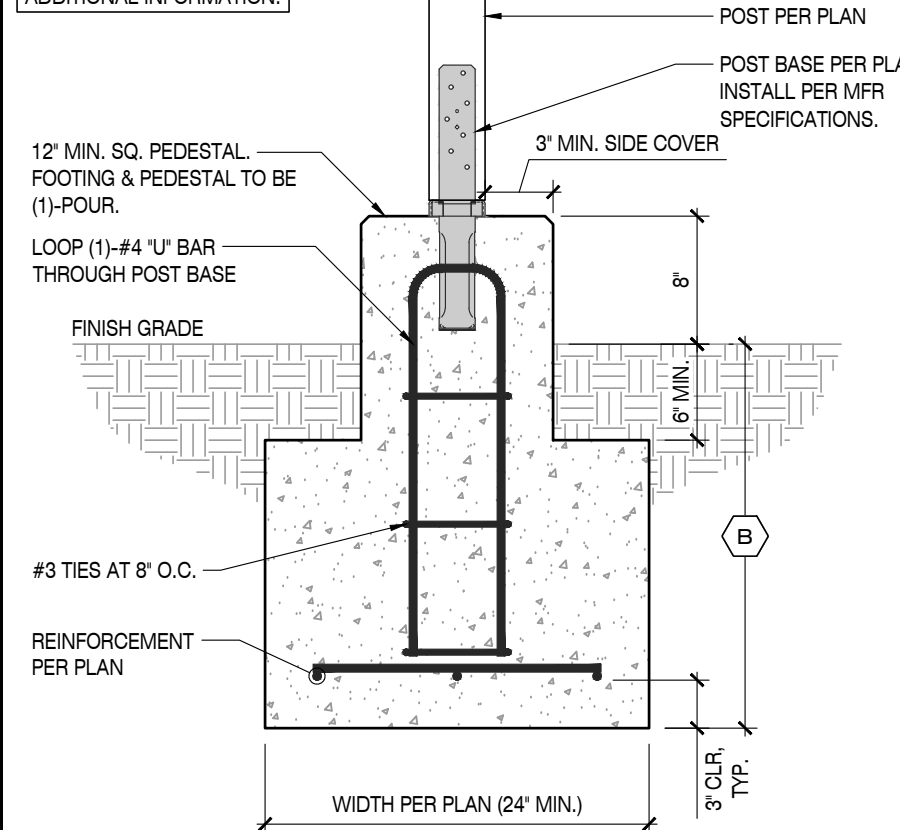
\* EXPANSION CATEGORY CLASSIFICATION IS PER CBC 1802.3

SLAB & FOOTING SPECIFICATIONS

1

SCALE: N.T.S.

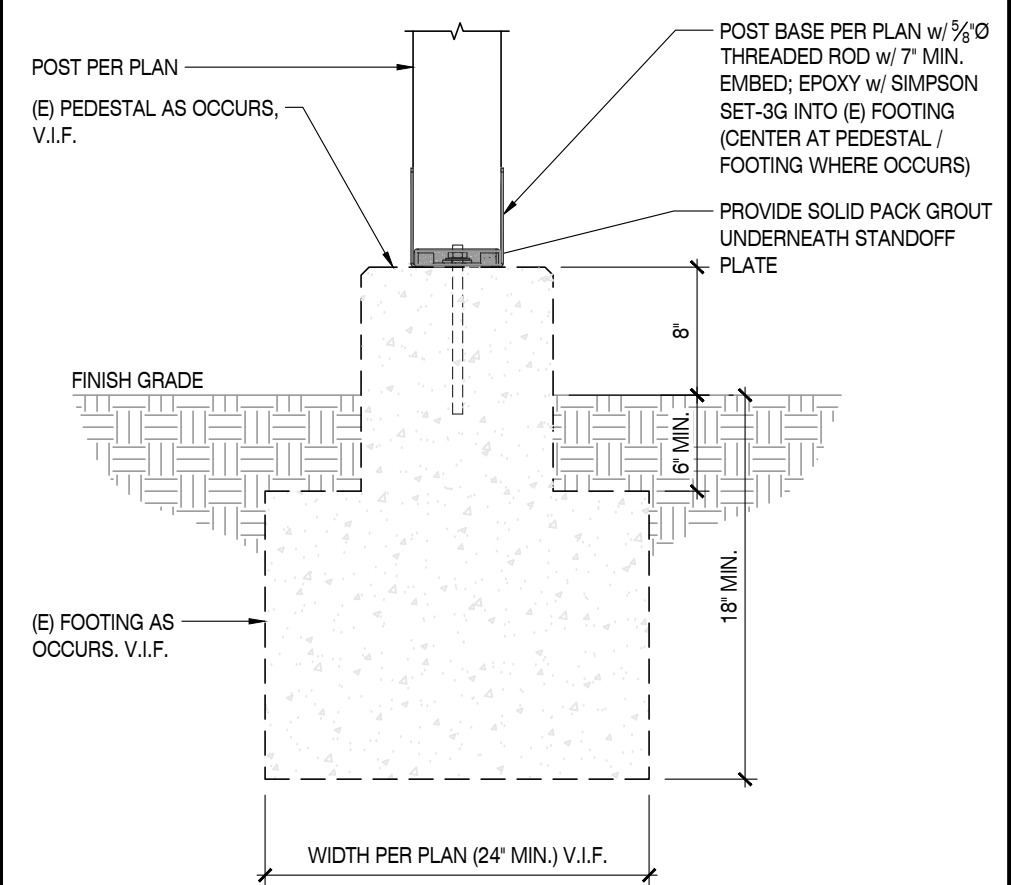
REFER TO DETAIL 1/- FOR ADDITIONAL INFORMATION.



ISOLATED POST FOOTING

2

SCALE: N.T.S.



NEW POST BASE AT EXISTING ISOLATED FOOTING

3

SCALE: N.T.S.

REVISION SCHEDULE		
NO.	DESCRIPTION	DATE



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PROJECT:

**ACCESSIBILITY MODIFICATIONS**

515 J STREET  
 EUREKA, CA 95501

SHEET NAME:

**FOUNDATION DETAILS**

ISSUE DATE: 1/30/24  
 PREPARATION AND REVIEW  
 DRAWN BY: ISE  
 DESIGNER: ISE  
 PROJ MGR:  
 PEER REVIEW: ISE

SHEET NUMBER:

**SD1**

1

2

3

4

5

A

B

C

D

E

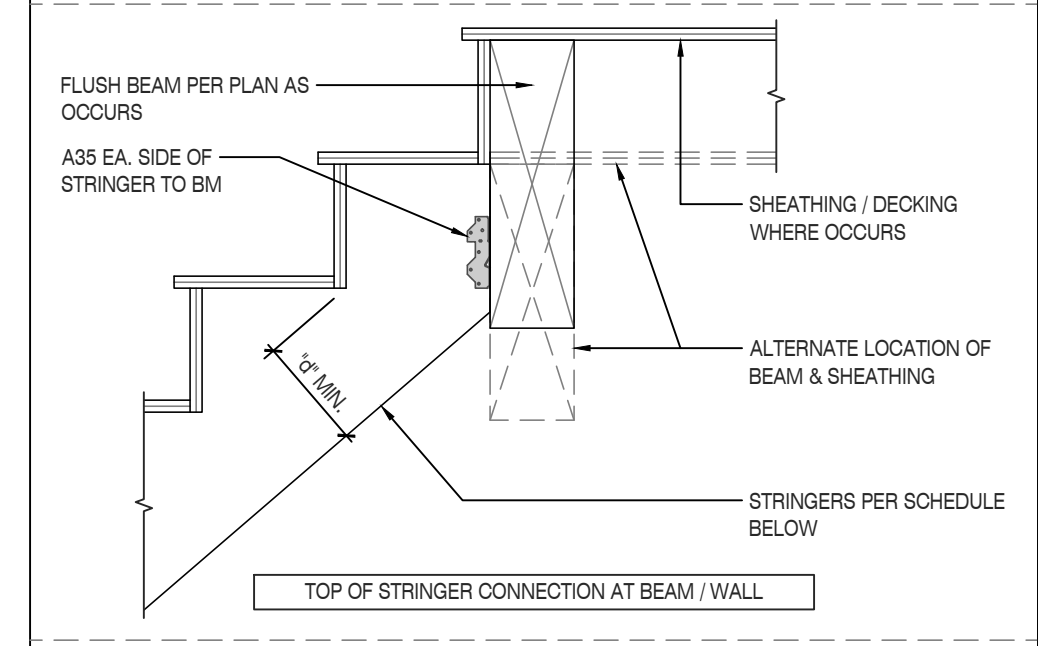
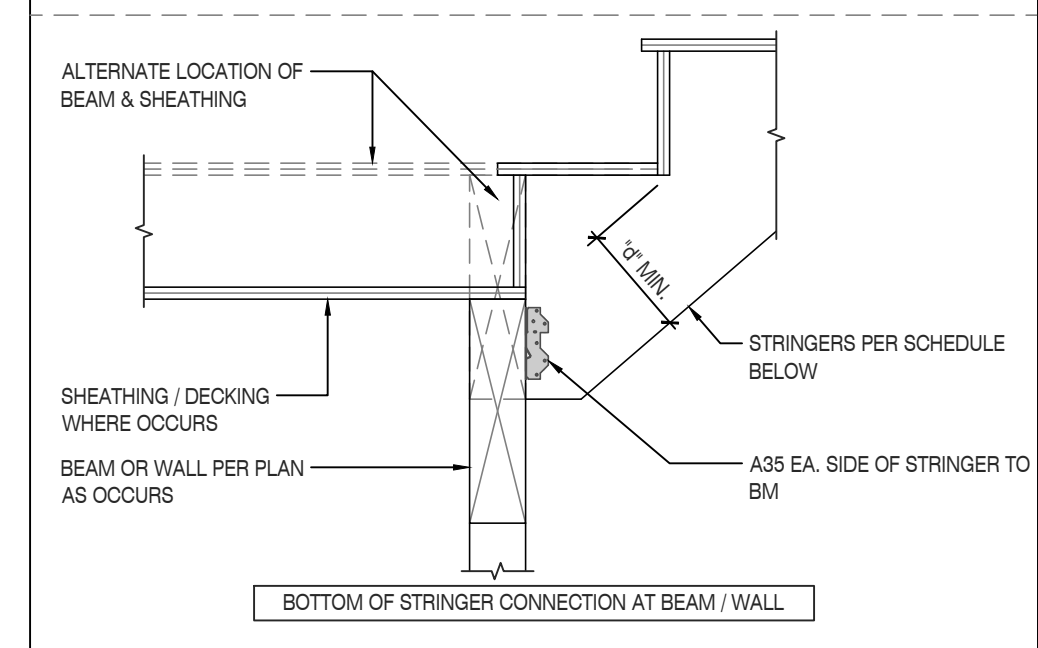
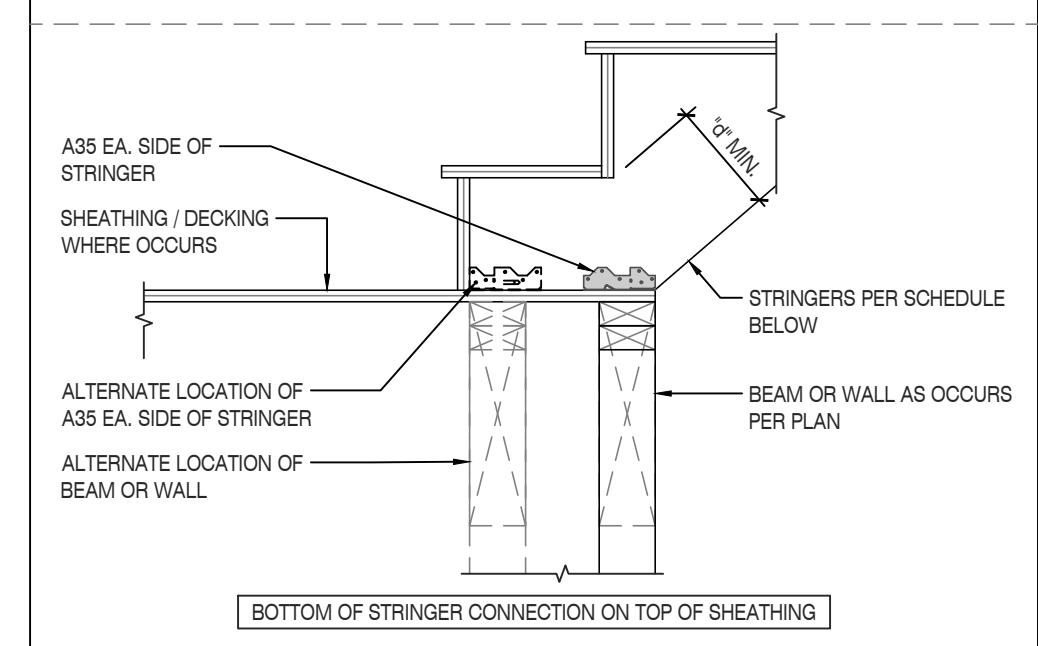
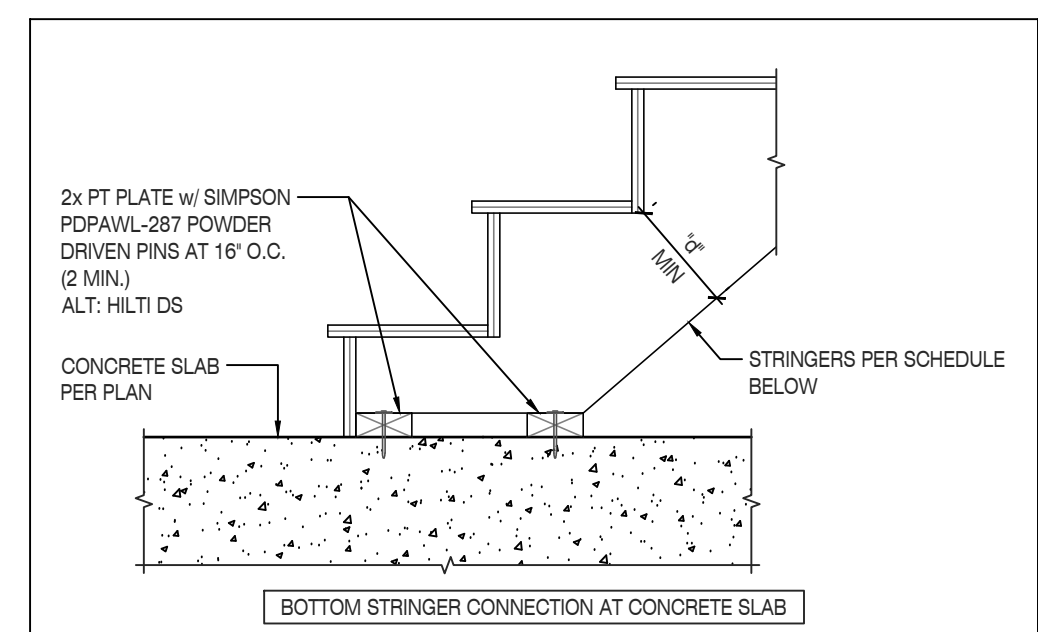
A

B

C

D

E

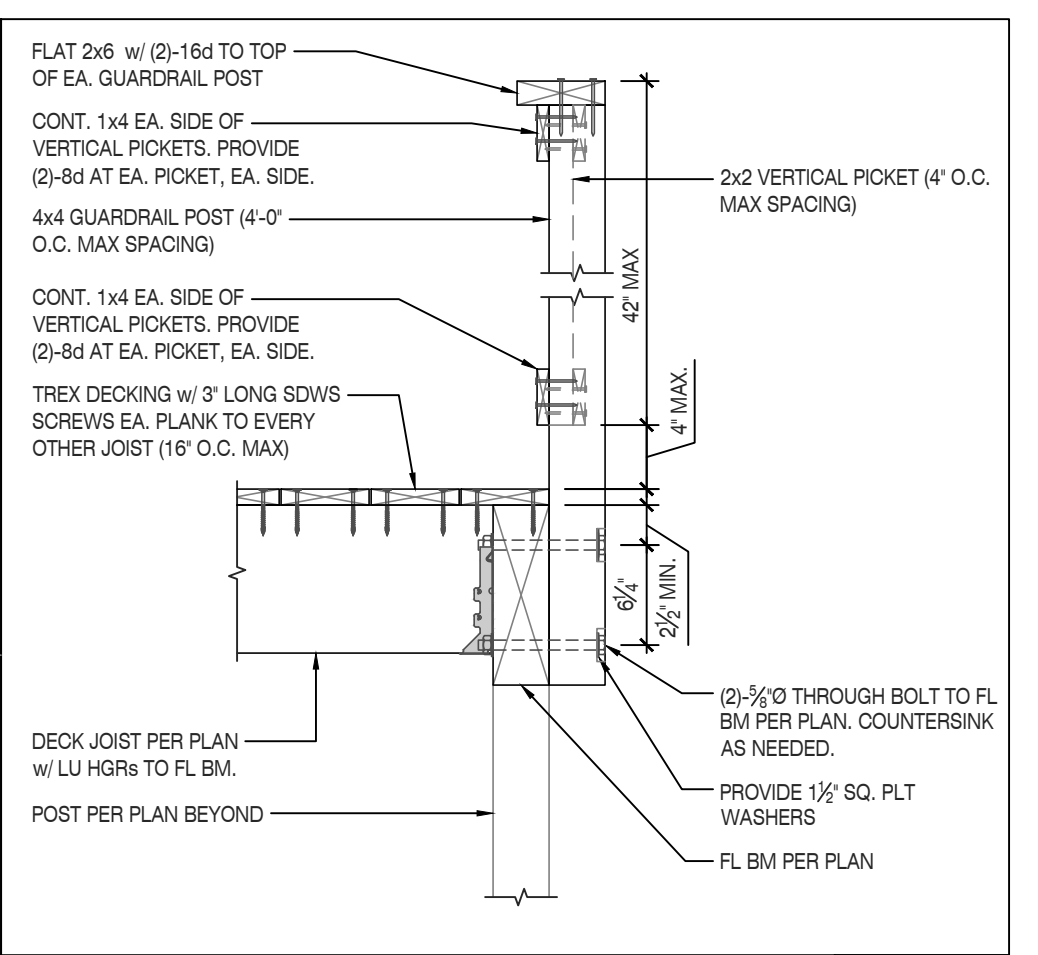


STRINGER SCHEDULE (100 PSF LL / 14 PSF DL)

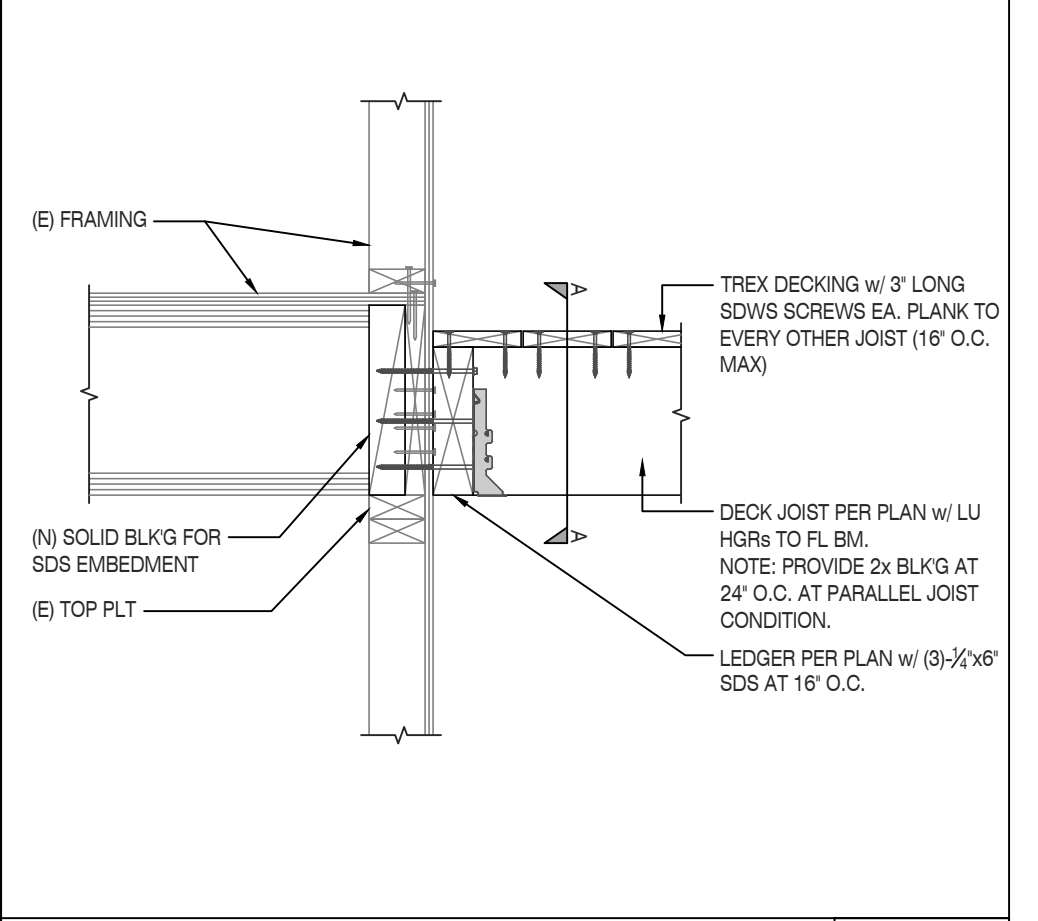
MAX STRINGER RUN (SEE NOTE 1)	#	PRODUCT	1\"/>	
7'-0"	3	2x14 DFL #2	7"	-
8'-0"	4	2x14 DFL #2	7"	SEE NOTE 2
10'-0"	2	1 1/2 x 14\"/>		

NOTE:  
 1. STRINGER RUN IS THE HORIZONTAL DIMENSION BETWEEN STAIRWAY SUPPORTS.  
 2. (2) ADJACENT STRINGERS CENTERED ON TREAD WIDTH MAY REPLACE (2) INTERIOR EVENLY SPACED STRINGERS.  
 3. FOR USE AT 8\"/>

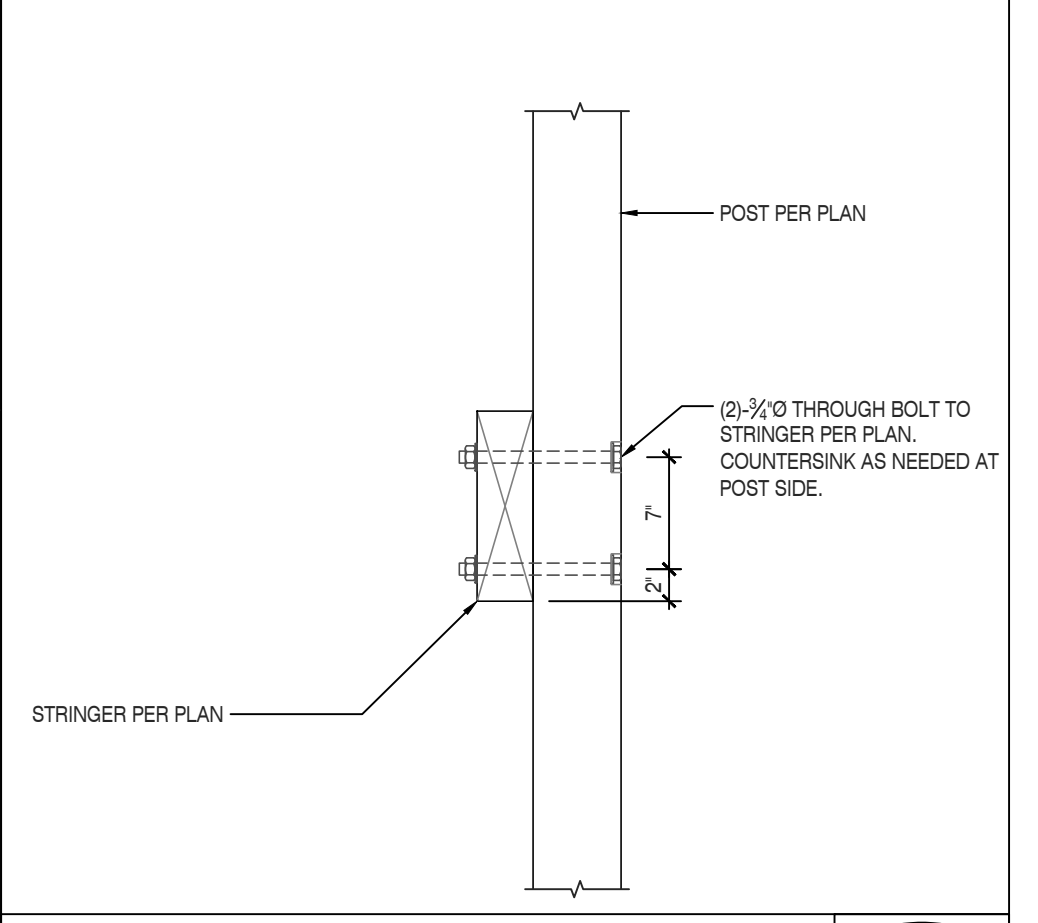
TYPICAL STAIR FRAMING CONNECTIONS  
SCALE: N.T.S.



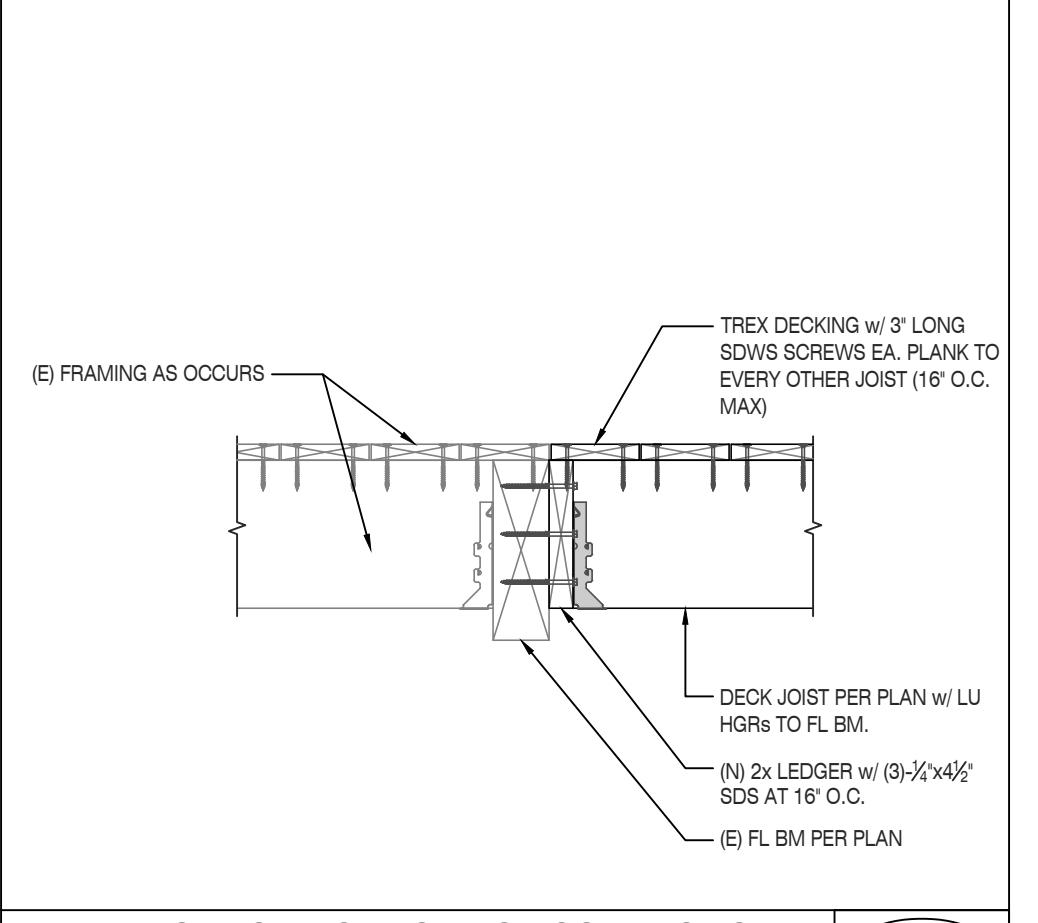
NEW EXTERIOR DECK EDGE & GUARDRAIL CONNECTION  
SCALE: N.T.S.



NEW EXTERIOR DECK CONNECTION TO EXISTING FLOOR FRAMING  
SCALE: N.T.S.



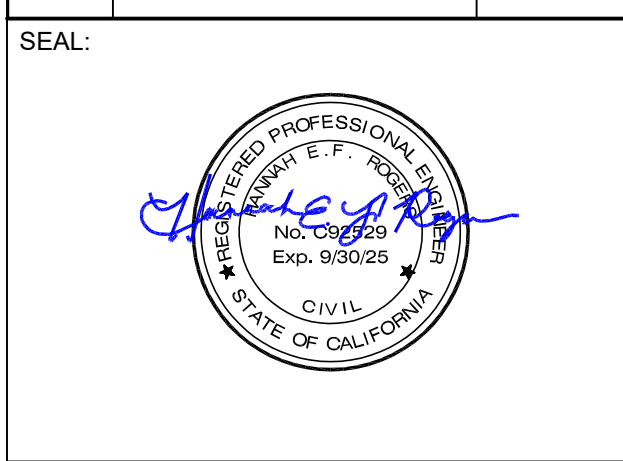
BEAM TO POST BOLTED CONNECTION  
SCALE: N.T.S.



NEW DECK TO EXISTING DECK CONNECTION  
SCALE: N.T.S.

REVISION SCHEDULE

NO.	DESCRIPTION	DATE



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PROJECT:

**ACCESSIBILITY MODIFICATIONS**

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SHEET NAME:

**FRAMING DETAILS**

ISSUE DATE: 1/30/24  
 PREPARATION AND REVIEW  
 DRAWN BY: ISE  
 DESIGNER: ISE  
 PROJ MGR:  
 PEER REVIEW: ISE

SHEET NUMBER:

**SD3**