



OWNER

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GEOTECHNICAL

TERRA ASSOCIATES 12220 113TH AVE NE, SUITE 130 KIRKLAND, WA 98034 PHONE: (425) 821-7777

EMAIL: AMY@TENW.COM

SITE AND BUILDING INFORMATION

240 15TH ST SE PUYALLUP, WA, 98372 PIERCE COUNTY TAX ID: 7845000161, 7845000170, 0420274126 FOR ADDITIONAL SITE AND BUILDING INFORMATION, SEE SHEET A1.10 - SITE PLAN

PROJECT DESCRIPTION

CONSTRUCTION OF A NEW SINGLE-STORY TILT-UP CONCRETE SHELL AND CORE SPECULATIVE WAREHOUSE SPACE. FUTURE OCCUPANCIES MAY CONSIST OF B, F-1, AND S-1 OCCUPANCIES

GEOTECHNICAL REPORT

SEE GEOTECHNICAL REPORT DATED 1/12/22 BY TERRA ASSOCIATES PROVIDED TO CITY SEPARATELY

<u>PERMITS</u>

GRADING AND TESC PERMIT APPLICATION: • #PRGR20230909

DEFERRED SUBMITTALS

DESIGN BUILD STAIRS < **OPEN WEB METAL JOIST & GIRDERS** LOADING DOCK CANOPIES

Engineer/architect reviewed design build stairs may be field reviewed by inspector (subject to inspectors discretion).

SEPARATE PERMITS

DESIGN BUILD FIRE SPRINKLER DESIGN BUILD FIRE ALARM PUBLIC WORKS • · · SIGNAGE

NOTES: DESIGN BUILDERS ARE FULLY RESPONSIBLE FOR THE DESIGN OF THESE SYSTEMS 1. COMPONENTS. THESE SYSTEMS / COMPONENTS SHOWN ON DOCUMENTS ARE SCHEMATIC ONLY: THEY ARE NOT INTENDED TO REPRESENT FINAL / CODE

COMPLIANT DESIGN. PROVIDE DESIGN DOCUMENT SUBMITTAL TO MACKENZIE FOR REVIEW PRIOR TO SUBMITTAL TO CITY OF PUYALLUP, WASHINGTON.

DRAWING INDEX

| | G0.01 G0.02 G1.10 | TITLE SHEET AND DRAWING INDEX PROJECT GENERAL NOTES, SYMBOLS, AND ABBREVIAT CODE ANALYSIS PLAN |
|-----------|-------------------------|--|
| E | <u>CIVIL DRAW</u> | /INGS |
| ξ | C1 | COVER SHEET |
| 5 | C4 | SITE PLAN |
| 5 | C5 | SITE PLAN |
| ξ | C6 | SITE PLAN |
| Ĺ | m | |
| | STRUCTUR | AL DRAWINGS |
| | S0.00 | STRUCTURAL GENERAL NOTES |
| | S0.10 S1.11 | TYPICAL DETAILS FOUNDATION PLAN |
| | S1.11 S1.13 | ROOF FRAMING PLAN |
| | S2.10 | EXTERIOR WALL ELEVATIONS |
| | S5.80 | TILT FOUNDATION DETAILS |
| | S5.81 | TILT DETAILS |
| | S5.82 | TILT DETAILS |
| | ARCHITECT | URE DRAWINGS |
| | A0.01 | ARCHITECTURAL GENERAL NOTES AND SYMBOLS |
| | A1.11 | FIRST FLOOR PLAN |
| | A1.12 A2.00 | ROOF PLAN EXTERIOR ELEVATIONS |
| | A2.00 A2.10 | EXTERIOR RENDERINGS |
| | A3.10 | BUILDING SECTIONS |
| | A3.20 | WALL SECTIONS |
| | A3.21 | WALL SECTIONS |
| | A4.10 | ENLARGED PLANS |
| | A5.10 A5.12 | METAL ACCENT, ENLARGED PLANS & DETAILS EXTERIOR DETAILS |
| | A5.13 | EXTERIOR DETAILS |
| | A5.14 | EXTERIOR DETAILS |
| | A5.15 | STOREFRONT AND ENTRY DETAILS |
| | A5.16 A5.17 | ROOF DETAILS ROOF DETAILS & INTERIOR DETAILS |
| | A5.17 A6.10 | DOOR AND WINDOW SCHEDULE |
| | | |
| | MECHANICA | AL DRAWINGS |
| | M-1 | WAREHOUSE HVAC PLAN |
| | M-C | NOTES, LEGEND, AND SCHEDULES |
| | | |
| | PLUMBING | |
| | P-1.0 | WATER AND SEWER PLAN |
| \int | $\widetilde{}$ | |
| 3 | <u>ELECTRICA</u> | L DRAWINGS |
| 3 | E0.00 | COVER SHEET |
| ځ | E0.01 | |
| 2 | E0.02 E1.01 | LIGHTING SUMMARY |
| > | E1.01 E1.02 | |
| > | E2.01 | POWER PLAN |
| 5 | E3.01 | |
| (| E3.02 | |
| ζ | E5.01 E6.01 | PANEL SCHEDULES |
| \langle | E0.01 | |



Portland, OR 503.224.9560 Vancouver, WA 360.695.7879 **Seattle, WA** 206.749.9993 www.mcknze.com

MACKENZIE. DESIGN DRIVEN | CLIENT FOCUSED

CREF3 PUYALLUP OWNER LLC 11611 SAN VICENTE BLVD. 10TH FLOOR LOS ANGELES, CA 90049

Project

FORTRESS PUYALLUP 240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical

CHITECI

BRETT TIMOTHY CONWAL STATE OF WASHINGTON

MACKENZIE

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REVISION SCHEDULE

Delta Issued As Issue Date

1 PLAN CHECK 11/07/23

MACKENZIE AND ARE NOT TO BE USED

2023 ALL RIGHTS RESERVED

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SHEET

TITLE SHEET

AND DRAWING

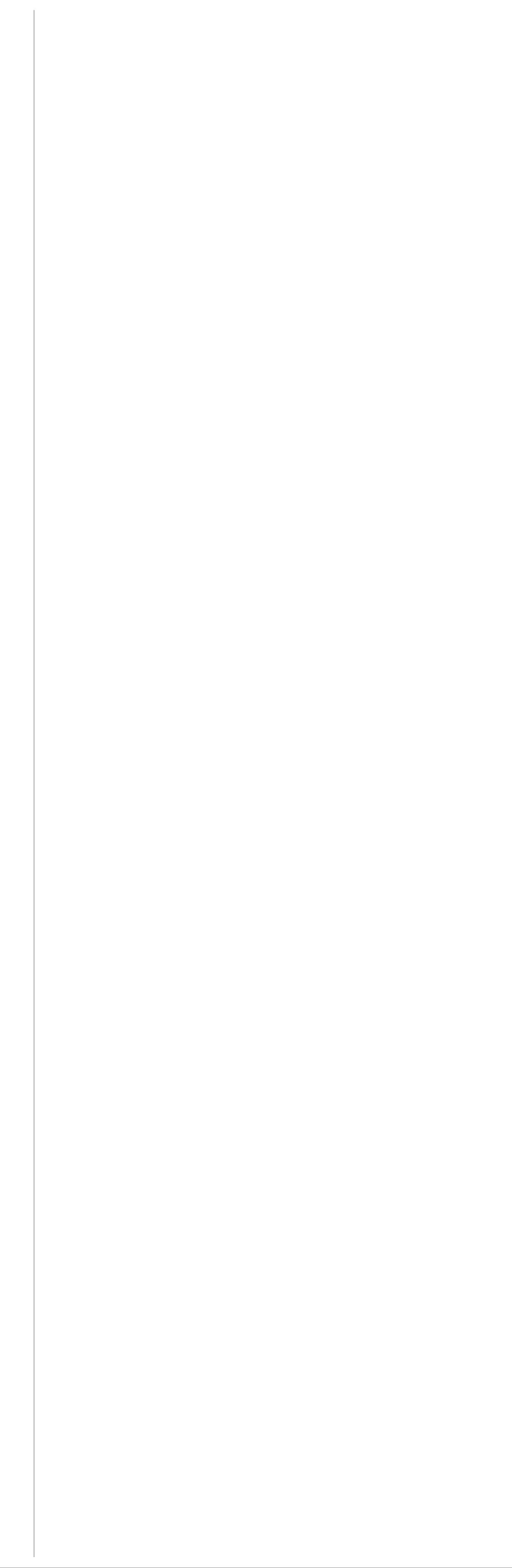
SHEET TITLE:

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PERMIT SET 6/28/2023

JOB NO. **2220290.00** Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 11/20/2023 2:14:57 PM As indicated

G0.01



STANDARD ABBREVIATIONS

| AC: AMERICAN SUMPLICIC CONCRETE EPDM ETHVLENE PROPYLICHE DE MONOMER ADA AMERICANS WITH DISIBILITIES ACT EG EGUAL ADDI ADJACENTY ADJUSTABLE ES EACH SIDE ADJ ADJACENTY ADJUSTABLE ETC EPOXY TRAFFIC CONTING AESS ARCHTECTINALLY EXPOSED EW EACH WAY AFF ABOVE FINISH FLOOR EXP JF ED EXP SIDE STRUCTURE AI, TALUM ALUMINUM Fi FACE OF ALT ALTRINTE FISTUD FACE OF STUD ALT ALTRINTE FISTUD FACE OF GUBS ARCH ARCHTEUNATE FISTUD FACE OF GUBS ARCH ARCHICAN INSTITUTE OF STEEL EX EVENTS ARCH ARCHTEUNATE FISTUD FACE OF GUBS ARCH ARCHICANATE FISTUD FACE OF CUBS ARCH ARCHICANATE FISTUD FACE OF CUBS BY BOTTONO FF FACE OF UBS BY BOTTONO FF FINISH FINISHER BY BOTTONO FF FINISH FINISHER BY BOTTONO FF FACE OF UBS BY BOTTONO FF FACE OF CONTRETE BY BOTTONO | @ | AT | EOP | EDGE OF PANEL |
|--|------------|---------------------|---------|---------------------------|
| ADA AMERICAN CONCRETE INSTITUTE MONOMER ADA AMERICAN WITH DISBUITTES ACT EO EOUAL ADDI ADJICHT ADUSTABLE EI EVENT INSTITUTE ADSI ADJICHT ADUSTABLE EI EVENT INSTITUTE ARSE ATRICTURINATION EV EVENT INSTITUTE ARSE ATRICTURINATION EV EVENT INSTITUTE ADSOCE INSTITUTE OF STEEL EXI EVENTION ALL/AUM ALLINATION FI FACE OF ATR ALLINEAD ROD FO FACE OF ARTR ALLINEAD ROD FO FACE OF RECEPTION ARTR ALLINEAD ROD FFE FIRE DEPARTMENT COMERT BATTED NSULATION FFE FIRE DEPARTMENT COMERT BATTED NSULATION FFE FIRE DEPARTMENT COMERT BUD BUDO BUD COM FIRE FIRE DEPARTMENT COMERT BUD BUDO BUD COM FIRE FIRE ENTRUISHEN FIRENT BUD BUDO BUDON FIRE FIRE ENTRUSHENT BUD BUDO BUDON FIRE | AB | | EP | EPOXY PAINT / EDGE OF PA |
| ADDI: ADDI: ADDI: ED EOUAL ADDI: ADDI:CANALINETING ADDI:STARLE ETC EPOXYTRAFTIC CONTINUE AFES ADDI:TANAL STELL EV EV/TRAFTIC CONTINUE AFES ADDI:TANAL STELL EV EV/TRAFTIC CONTINUE AFES ADDI:TANAL STELL EV EV/TITLE AFES ADDI:TANAL STELL EV/TITLE EV/TITLE AFES ADDI:TANAL STELL EV/TITLE EV/TITLE AFES ADDI:TANAL STELL EV/TITLE EV/TITLE AFE ALTALMAN FI FACE OF ALTALMANATE FISTUD FACE OF FACE OF ALTALMANATE FISTUD FACE OF FACE OF ATT ALL-IMMEAD NOD FIC FICOTOR FISTUD BATT BATTENNENDO FIC FICOTOR FISTUD BATT< | | | EPDM | |
| ADDL ADDLINGAL EB EACH SIDE ADJ ADJANCENT AJUSTALIT ETC EPCN TRAFFIC CONTROL AFE ARCHITCTURALLY EXPOSED EW EACH SIDE AFE ABOUT ALT ALT ALT ALT ALT ALT ALT ALTERNATE FR FRDD APECH APECH STEEL EXT EXTEND ALT ALTERNATE FR FLTBAR APECH APECH STEEL EXT EXTEND APECH APECH STEEL EXT EXTEND APECH APECH STEEL FR FLTBAR APECH ATT BATTAR FLTBAR FLTBAR APERDX APERDX FR FLTBAR APERDX FLTBAR FLTBAR FLTBAR BD TATAR FLTBAR <t< td=""><td></td><td></td><td>FQ</td><td></td></t<> | | | FQ | |
| ADJ ADJACENT ADJUSTABLE ETC EPOXY TRAFPE CONTRACT AESS ARCHITECTURAL STEEL FXP EXPOSITION AND STRUCTURE ARG ARGOVE TRAFT FLOOR EXP (T E] EXPANSION JOINT ANG ARGOVE TRAFT FLOOR EXP (T E] EXPANSION JOINT ALL ALLENNIA FXT EXPENSION ALLAUMINAM FY FACE OF ALT ALLENNIA FR FL ARC ARCHITECTURAL FR FL ARC ARCHITECTURAL FR FR ARCH ARCHITECTURAL FR FR FL BATTEN NEULATION FF FR FR FR BATTEN SUBJERS FL FL FR FR BATTEN SUBJERS FL FR FR FR BATTEN SU | | | | |
| AFS ARCHITECTURALLY EXPOSED EW EACH WAY AFF AROUTE INIGH FLOOR EXP JT (E) EVAANSC JUNT ASC ARREND INIGHT OF STEEL EXP JT (E) EVAANSC JUNT ALT ALTANINA ALTANINA FIL FACE OF ALT ALTERNATE FIE FIE FACE OF APROX APROXIMATE FIE FIE FIE APROX APROXIMATE FIE FIE FIE ARCH ALTERNATE FIE FIE FIE FIE ARCH ALTHIKAN TE FIE FIE FIE FIE ARCH ALTHIKAN TE FIE FIE FIE FIE ARCH ALTHIKAN TE FIE FIE FIE FIE BATTON TOR BOTON OF FIE FIE <t< td=""><td></td><td></td><td></td><td>EPOXY TRAFFIC COATING /</td></t<> | | | | EPOXY TRAFFIC COATING / |
| AFF ABOVE FINISH FLOOR EVP_17_EL EVRANSIGN JOINT ALS AMERICAN INSTITUTO OF STELL CONSTRUCTION FI FACE OF AL_ALUM ALIMINAL FI FACE OF ALT ALIMINAL FISTUD FACE OF ACC MATT BATTON OF FIE FIE BATT BATTON OF FIE FIE FINISH FLOOR ELEVATION BATT BATTON OF FIE FINISH FLOOR ELEVATION BATT BATTON INSULATION FIE FINISH FLOOR ELEVATION BAT BATTON INSULATION FIE FIE FINISH FLOOR ELEVATION BAT BATTON INSULATION F | | | EW | EACH WAY |
| ABEC ALLEGAN INSTITUTE OF STELL F.Y EXTERIOR ALTAUM ALLMANAM ALLANA ALLENANTE F.FSTUD FACE OF STUD APPROX APPROXIMATE F.FSTUD FACE OF STUD ATT ALTERNATE NOULATION F.FC F.FSTUD FACE OF STUD AND F.FSTUD FACE OF STUD ATT BATTEN INSULATION F.FF F.FT FINSHEE BU BUDON F.FF F.FT FINSHER F.FUSHEE BUDON BUDON F.FF F.FT FINSHER F.FUSHEE BUDON BUDON F.FF F.FT FINSHER F.FUSHEE BUDON BUDON F.FF F.FT FINSHER F.COR ILLEVATION BUD SUDON F.FT F.FT FINSHER F.COR ILLEVATION COP CONTRACTOR M.TING F.COC F.FACE OF WALL COF CONTRACTOR F.FT F.FTFFTFOOTFINE TRATEO C.G. CONTRACTOR F.FT F.FTFFTFTFTFTFTFTFTFTFTFTFTFTFTFTF | | | EXP | EXPOSED STRUCTURE |
| CONSTRUCTION ALL'ALLM ALL'INAL ALUNINUM F/L ALT ALTERNATE ALUNINUM F/L ALT ALUNINUM F/L ALUNINUM F/L ALUNINUM F/L ALUNINUM F/L ALUNINUM F/L ALUNINUM F/L ALUNINUM F/L ALUNINUM F/L ALUNINUM F/L ALUNINUM F/L BLO BLOC CUBA BLO BLOC FUEL AND BLO BLOC BUILDING BLO BLOC CONS BLOC BUILDING BLO BUILDING BLO BUILDING BLO BUILDING BLO BUILDING BLO BUILDING BLO BUILDING BLO BUILDING BLOC CONTECLION C | | | | |
| AL/LUMA ALUMINUM F/ FACE OF ALT ALTERNATE FISTUD FACE OF STUD APPROX APPROX APPROXIMATE FIS FLATE DAR ARCH ARCHITEXTURAL) FC FACE OF CURB ATT BUTTOM OF FIC FREE DEPARTMENT COME BU BUTTOM OF FIC FREE DEPARTMENT COME BU BUTTOM OF FIC FREE DEPARTMENT COME BU BUOTOM OF FIC FREE DEPARTMENT COME BU BUOTOM OF FIC FREE DEPARTMENT COME BU BUCOCK FL FLUSH BUS BUCOCK FL </td <td>AISC</td> <td></td> <td>EXT</td> <td>EXTERIOR</td> | AISC | | EXT | EXTERIOR |
| ALT ALTERNATE PRTOX FACE OF STUD APRCOX APPROXANTE HB HIAT RAK ARCH ARCHTECTURAL) FC FACE OF CURR ARC ALLTHERA ROD FD FLOOR DEARTMENT COME BATT BATTEN INSULATION FE FIRE ENTRUMINE COME BATT BATTEN INSULATION FF FACTORY FINISH FLOOR ELEVATION BUS BOMRD FFE FINISH FLOOR ELEVATION BUK BUCKING FN FREE DENISH FLOOR ELEVATION BUK BUCKING FN FREE DINIERS BUK BUK BUK FN FREE DINIERS BUK BUK FN FREE DINIERS <t< td=""><td></td><td></td><td>_/</td><td></td></t<> | | | _/ | |
| APPROX APPROXIMATE FD FLAT BAC ARCH ARCHTEVTRAL) FC FACE OF CURB ATR ALL-HEAD ROD FD FLOOR DRAIN BATT BOTTOM OF FE FREEDERATTINCT/CONNE BATT BATTEN INSULATION FF FACTORY INSULATION BATT BATTEN INSULATION FF FACTORY INSULATION BL/K BLOCK FL FLUBRIC INSULATION BL/K BLOCK FL FLUDRING BL/K BLOCK FL FLUDRING BL/K BLOCK FL FLUDRING BL/K BLOCK FLOCK FLUDRING BL/K BLOCK FLUDRING FL BL | | | | |
| ARCH ARCHITECTURAL) FC FACE OF LURB ATR ALL-HERAD ROD FD FLOOR DRAWN BATT BATTEN INSULATION FE FIRE ENTRUMINET CONSUMPTION BATT BATTEN INSULATION FF FREE PRASH FLOOR REALISHER BLA BOARD FFE FIRE PRASH FLOOR RELEVATION BLA BLOCK FL FLUSH BLA BLOCK FL FLUSH BLK BLOCK FL FLUSH BM BENDRIMARK/BEAM FN FACTORY MUTUAL BM BENDRIMARK/BEAM FN FACTORY MUTUAL BM BENDRIMARK/BEAM FN FECTORY MUTUAL BM BENDRIMARK/BEAM FN FECTORY MUTUAL BM BOUNDARY MALL FN < | | | | |
| ATR ALL-THEAD ROD FD FILOSOP DEMAN BY BOTTOM OF FE FREE DEFARTMENT CONVE BATT BATTEN INSULATION FF FRACTORY FINISH FILOSOF BD BOARD FFE FINISH(ED) FILOSOF BL/ SLOC BULDING FIN FINISH(ED) BLX BLOCK FL FILOSOF BLX BLOCK FL FILOSOF BLX BLOCK FL FILOSOF BM BENCHMARK/BEAM FN FILOSOF BM BOTTON VALL FN FILOSOF BMT BASEMENT FOC FACEOF FINISH BVR BOTTON PORTON FOR FOLOSOF BVR BOTTON PORTON FOC FACEOF FINISH BVR BOTTON PORTON FON FACEOF FINISH BVR BOTTON PORTON FON FACEOF FINISH CAB CABINET FOS FACEOF FINISH CAB CABINET FOS FACEOF FINISH CIA CONTROLTON FT FECETON CLA CABINET FOS FACEOF FINISH CIA CABINET FOS FACEOF FINISH CIA CADINT FTG FECOTING | | | | |
| BY FDC FIRE DEPARTMENT CONSTRUCTOR BATT BATTEN INSULATION FE FIRE DETRUSHERS BD BOARD FFE FIREDETRUSHERS BL/ BLOC BULIDING FN FIREDETRUSHERS BL/ BLOC BULIDING FN FIREDETRUSHERS BL/ BLOC BULIDING FN FIREDETRUSHERS BL/ BLOC BULOCARARY, BEAM FN FACTORY MUTUAL BM BENDEMARY, BEAM FN FIREDETRUSHERS BM BENDEMARY, BEAM FN FIREDETRUSHERS BM BENDEMARY, BEAMEN FND FOLDINALION BM BENDEMARY, BEAMEN FOC FAGE OF CONCRETE BM BEINTERNY FOR FOC FAGE OF CONCRETE BMR BEINTERNY FOR FOC FAGE OF STUD CAB CATCH BASIN FOC FAGE OF STUD FT CIP CONTROLLONT FT FEETROT FIRETREATED CL CIP CONTROLLONT FT FEETROT FIRETREATED <td< td=""><td></td><td></td><td></td><td></td></td<> | | | | |
| BATT BATTEN INSULATION FF FACTORY PRUSH (PRUSH) BLD BOARD FFFE FINISH (ED) BLK BLOCK FIN FINISH(ED) BLK BLOCK FL FUNISH(ED) BLK BLOCK FL FUNISH(ED) BLK BLOCK FN FILED ARLING BM BOCKNARK/BEAM FN FILED ARLING BM BOLINDARY NAL FN FULED ARLING BM BOLINDARY NAL FN FULED ARLING BMT BASEMENT FOC FACE OF CONCEPTE BSMT BASEMENT FOR FACE OF FALSO FOR SUP CAB CALCH BASIN FOR FOC FACE OF SUD CAB CALCH BASIN FON FACE OF SUD CAF CONTRACTOR FT FEEFFOOT FIRE TREATED CJ CONTRACTOR FT FEEFFOOT FIRE TREATED CJ CONTRACTOR FT FEEFFOOT FIRE TREATED CLA CLAR CLAR GALV GALV GALV CLA CLAR CLAR GALV GALV GALV CONTROCONCHETE GAL GALV GALV GALVAREED CLAR CLAR CARR | | | | FIRE DEPARTMENT CONNEC |
| BD BOARD FFE FINISH FLOOR ELEVATION BLD / BLDO BULDING FIN FINISH FLOOR ELEVATION BLK BLCCK FIN FINISH FLOOR ELEVATION BLK BLCCKING FIN FINISH FLOOR ELEVATION BM BEOLMARK / JEEAM FIN FLOOR BM BOUNDARY NAL FIN FLOOR BTM BEARING FO FACE OF CONCRETE BRG BEARING FO FACE OF CONCRETE BRM BERVEEN FOIC FACE OF ANAGONRY BUR BUTT PROFING FOM FACE OF MAGONRY CAB CABINET FOS FACE OF MAGONRY CAB CABINET FIN FEEFEOT FIRE TREATED CAB CABINET FIN < | В/ | BOTTOM OF | FE | FIRE EXTINGUISHER |
| BLD ALDON BLUKING FIN FINISHED FINISHED BLK BLOCK FL FLUBH BLK BLOCK FL FLUBH BLK BLOCK FL FLUBH BLK BLOCK FL FLUBH BLK BLOCK FN FLUDALING BN BOUNDARY NAL FN FLUDALING BN BOUNDARY NAL FN FLUDALING BN BOUNDARY NAL FN FLUDALING BNT BASE BASEMENT FOC FACE OF CONCEPTE BMT BASEMENT FOR FACE OF FUND CONTRACTOR BUR BUILT UP ROFING FOS FACE OF STUD CONTRACTOR CDF CATIRON FT FEELFOOT FIRE THEATED CJ CONTROLONT FT FEELFOOT FIRE THEATED CLNG CELAR GA GAUGE CLNG CELAR GA GAUGE CMIL CONTRACTED METAL PIPE GAU GAUANEED CONT CONTRACTOR GR GAU CONT CONTRACTOR GR GAU CONT CONTRACTOR GR GAU CONT CONTRECTON GR | | | FF | FACTORY FINISH / FINISHED |
| BLK BLOCK FL FL FLOR BM BEACHMARK / BEAM FM FACTORY MUTUAL FN BM BOUNDARK / BEAM FN FRECTORY MUTUAL FN BT BOUNDARK / BEAM FN FIELD AULING FOOD BRG BEARING FN FIELD AULING FOOD BRG BEARING FOO FACE OF CONCRETE FOOD BRM BETWEN FOOD FOOD FACE OF WALL BUR BUIT UP ROOFING FOM FACE OF WALL CAB CATCH BASIN FOW FACE OF WALL CIP CATCH BASIN FT FOOD FOOD FOOD FOR CIP CATCH BASIN FT FT FETFOOT FIRE TREATED CIP CATCH BASIN FT FT FETFOOT FIRE TREATED CIP CATCH BASIN FT FT FOOTING GL CIP CATCH BASIN FT FT FOOTING GL CIP CATCH BASIN FT FT <td></td> <td></td> <td>FFE</td> <td>FINISH FLOOR ELEVATION</td> | | | FFE | FINISH FLOOR ELEVATION |
| BIKG BLOCKING TUR PLOOR BM BORUNDARY NAL FM FACTORY MUTUAL BN BOUNDARY NAL FN FIELD NALING BR BOT / BOTT FOR FOR BR BOT / BOTT BOTT FOR BRMT BASEMENT FOR FACE OF CONCRETE BRMT BASEMENT FOR FACE OF FUNSH BUR BUILT UP ROOFING FOR FACE OF FUNSH BUR BUILT UP ROOFING FOR FACE OF FUNSH CAB CARIFERT FOS FACE OF FUNSH CB CONTROLLONT FT FEETFEOD THE TREATED CJ CONTROLLONT FT FEETFEOD THE TREATED CLNG CELAR CARIF GA GALV CLNG CELAR CARIF FTC FEOTFOOT THE TREATED CAN CONTRUCATED METAL PIPE GEN GALV GALVANIZED CLAG CELAR CARIF GALV GALVANIZED CLAG CONT | | | | |
| BM BECHMARK / BEAM FM FACTORY MUTUAL BN BOUNDATON FN FIELD MULING BOTTOM BOTTOM FN FIELD MULING BRG BEARING FOC FACE OF CONCRETE BRM BASEMENT FOC FACE OF CONCRETE BWN BETWEN FOC FACE OF ANSONEY BUR BULT UP ROOFING FOM FACE OF ANSONEY CAB CATCH HASIN FOM FACE OF ANSONEY CB CATCH HASIN FOM FACE OF ANSONEY CDF CONTROLLED DENTY FILL FS FAR STOP CL CONTROL LOINT FT FEETFOOT FIRE TREATED CL CONTROL HASIN FILE FO FOUNDATED CL/ CONTROL JOINT FT FEETFOOT FEETFOOT CL/ CONTROL TEM MASIN PIPE GAN GAUGE GAUGE CL/ CONTROL TEM MASIN PIPE GAN GAUGE GAUGE CL/ CONTROL TEM MASIN PIPE GAN GAUGE | | | | |
| BN BOUNDARY NALL IN PIELD MALLING BOT / BOTT ROT / BOTT FND FND FOUNDATON BRG BFARING FOO FACE OF CONCRETE BWT BASEMENT FOF FACE OF FINSH BWN BETWEEN FOF FOR FORMERY BUR BUILT UP ROOFING FOR FACE OF FUND CAB CARINET FOS FACE OF STUD CB CATCH BASIN FOW FACE OF WALL CDF CONTROLLONT FT FEDTFEOD T FIRE TREATED CL/ CONTROLLONT FT FEDTFEOD T FIRE TREATED CL/ CONTROLLONT FT FEDTFEOD T FIRE TREATED CL/ CONTROLLONT GA GALVAINZED CL/A CONTROLLONT GA | | | | |
| BOT, ROTT BOTTOM I'ND FOUDATION BRG BEARING FOC FACE OF CONCRETE BRMT BASEMENT FOC FACE OF CONCRETE BWN BETWEN FOC FACE OF FONDATION BUR BUILT UP RODEING FOM FACE OF MASONRY CAB CATCH BASIN FOM FACE OF WALL CDF CONTROLLED DENSITY FILL FS FAR SIDE CIP CAST IRON FT FEFEFORT FIRE TREATED CL CONTROLLED DENSITY FILL FS FAR SIDE CL CONTROLLED DENSITY FILL FS FAR SIDE CL CONTROLLOUNT FTG FOOTING CL CONTROLLOUNT FTG FOOTING CL CONTROLLOUNT CL GRENERAL CL CONTROLOUNT CL GRADE CON CONCRETE MASONRY UNIT CLB GLZ CON CONGENTE GSA USANDES CON CONFERENCE GA CAST IRON CON CONFERENCE GA ADMINISTRATION CON CONFERENCE GA ADMINISTRATION CON CONFERENCE GA ADMINISTRATION CONN CONFERENCE <td></td> <td></td> <td></td> <td></td> | | | | |
| BRG BEARING FOC FACE OF CONCRETE BSMT BASENDAT FOC FACE OF FANDERTER BUR BUILT UP ROOFING FOIC CONTRACTOR BUR BUILT UP ROOFING FOIC CONTRACTOR CAB CARDERAT FOO FACE OF MADONRY CAB CATCH BASIN FO FACE OF STUD CB CONTROLADINT FT FEETFOOT FIRE TREATED CJ CONTROLADINT FT FEETFOOT FIRE TREATED CL/ CONTROLADINT FTG FOOTING CL/ CONTROLADINT GRE GALVANIZED CL/ CONTROLADINT GLE GRE CL/ CONTROLADINT GLE GLAVANIZED CL/ CONTROLADINT GLE GLAVANIZED CMN CONCRETE GALVANIZED GALVANIZED CONT CONTROLADINT GLE GLAVANIZED CONT CONTROLADINT GRE GRD GRID ONLY CONT CONTROLADINT GRAD | | | | |
| BSMT BASEMENT FOD FACE OF PINSING BUR BUIL UP ROOFING FOR | | | | |
| BIWN BETWEEN POIC FURNER TO CONTRACTOR FOR CONTRACTOR C | | | | |
| BUR BUILT UP ROOFING FOM FACE OF MASCONRY CAB CATCH BASIN FOS FACE OF MASLONRY CB CATCH BASIN FOS FACE OF WALL CDF CONTROLLED DENSITY FILL FS FAR SIDE CIP CAST IRON FT FEETFOOT FIRE TREATED CL CONTROL JOINT FTG FOOTING CL CELEAR GAL CALVANIZED CL CENTRENE GR CAUCE CMR CLEAR GAL CALVANIZED CMR CORRUGATED METAL PIPE GEN COLLAM BEAM CMU CONCRETE MASONRY UNIT GLB CLUAM BEAM COL COLUNN GR GRADE ADMINISTRATION CONC CONCRETENOE ADMINISTRATION BUR HOBE BIB CONT CONTRACTOR HCM HODICACON CONTR CONT CONTRACTOR HCM HODICACON CONTRACTOR CONT CONTRACTOR HCM HOLOW CORE HANDICAR | | | | |
| CAB CARTIN FILL FOS FACE OF SULD CB CATCH RASIN FOW FACE OF WALL CDF CONTROLLED DENSITY FILL FS FAR SIDE CJ CONTROLJONIT FTG FEDTFOOT FIRE TREATED CL CENTROLJONIT FTG FOOTING CL/ CENTRINE GAL GALUGE CL/ CENTRINE GAL GALUALIZED CLR CLEAR GALUANIZED GALUANIZED CMM CONCRETE MSONRY UNIT GLB GLLLIAM BEAM COL COLUNN GRD GRID ONLY CON CONCRETE GSA U.S. GENERAL SERVICES CON CONNECTION GRD GRID ONLY CONN CONSTRUCTION HB HOSE BIS CONTR CONTRACTOR HDP HIGH DENSITY POLYETHEL CONTR CONTRACTOR HDP HIGH DEN | | | 1010 | |
| CB CATCH BASIN FOW FAGE OF WALL COP CASTIRON FT FRASIDE CI CONTROL DOINT FT FREET/FOOT FIRE TREATED CL CENTRELINE FT FOOTING CL/I CENTRELINE FT FOOTING CL/G CELING GAL GALVANIZED CLR CLEAR GAL GALVANIZED CMP CORRUGATED METAL PIPE GEN GLEARAL CMU CONCRETE MASONY UNIT GLB GULLAM BEAM COI COLUAN OUT GR GRADE COI COLUMN GRD GRID ONLY CON CONFERENCE GA JAMINISTRATION CONF CONFERENCE GA HORE BIB CONT CONTROCTON HB HOLDW CAP HABONRY CONT CONTROCTON HB HOLDW CAP HABONRY CONT CONFERENCE GA JAMINISTRATION CONT CONFERENCE GA JAMINISTRATION CONT CONFERENCE HB HOLDW CAP MASONRY CONT CONTROCTON HB HOLDW CAP MASONRY CONT CONTROCTON HB HOLDW CAP MASONRY CONT CONTROCTON H | | | FOM | FACE OF MASONRY |
| CDF CONTROLLED DENSITY FILL FS FAR SIDE CIP CAST IRON FT FEETFOOT FIRE TREATED CL CONTROLJOINT FTG FEOTING CL CENTERLINE GAUGE GAUGE CLR CLEAR GALVANZED GALVANZED CMP CORRUGATED METAL PIPE GR GRENERAL CMU CONCRETE MSONRY UNIT GLB GLLLAM BEAM CMU CONCRETE MSONRY UNIT GLB GLLAZING CO CLEAN OUT GR GRADE COL COLUMN GRD GRID ONLY CONC CONCRETE GSA U.S. GENERAL SERVICES CONN CONNECTION GYP BD GYPSUM BOARD CONT CONSTRUCTION HB HOSE BIB CONT CONTRUCTION HB HOLLOW CLAY MASORY CORD COORDINATE HDPE HIGH DENSITY POLYETHEL CONT CONTRUCTION HB HARDWARE CONT CONTRUCTION HDPE HIGH DENSITY | CAB | CABINET | FOS | FACE OF STUD |
| CIP CAST IRON FT FEET/FOOT FIRE TREATED CL CONTROLOINT FTG FOOTING CL/A CENTERLINE GAUGE CLRG CELING GALV GAUVANIZED CMP CORRUGATED METAL PIPE GEN GENERAL CMM CONCRUGATED METAL PIPE GEN GLI CAZINO CMU CONCRUETE MASONRY UNIT GLB GULIAM BEAM COTR CALTER GR GRADE COL COLUMN GRD GRID ONLY CON CONFECTE GSA U.S. GENERAL SERVICES CON CONFECTION GPD GYPSUM BOARD CONT CONTRICTION HB HOSE BIB CONTR CONTRACTOR HOP HIGH DENSITY POLYETHEL CONTR CONTRACTOR HOP HIGH DENSITY POLYETHEL CORR CORRUGAT(ED) (NN) HOP HIGH DENSITY POLYETHEL CORR CONTRACTOR HOW HANDWARE CPT CARPET HOW HANDWARE CRC CHEMICAL RESISTANT COATING HG HALLOW CORF./ HANDKAP CRC CHEMICAL RESISTANT COATING HG HANDWARE CRC CONTERTOP HIM HALLOW CARL | | | FOW | FACE OF WALL |
| CJ CONTROL_JOINT FTG FOOTING CL/ CONTROL_JOINT FTG FOOTING CL/AG CELLING GA GAUGE CLR CLEAR GALV GAUXED CMP CORRUGATED METAL PIPE GEN GENERAL CMU CONCRETE MASONRY UNIT GLB GLLZ GLAZING COL CLUMN GR GRD GRID ONLY COL COLUMN GRD GRID ONLY CONC CONCRETE GSA U.S. GENERAL SERVICES CONN CONCRETON GYP BD GYPEUM BOARD CONN CONTECTION HB HOSE BIB CONT CONTRUCTION HB HOLLOW CORE (HANDICAE CONT CONTRUCTION HB HOLLOW CORE (HANDICAE CORD CORRUCATED (INN) HDR HIEADER CORT CORTRUCTION HB HOLLOW CORE (HANDICAE CONT CONTRUCTION HB HOLLOW CORE (HANDICAE CONT CONTRACTOR HDPE HIGH DELENTY POLYETHEL CORR CORRECTON HOR HARDWARE CORR CONTRECTON HDR HEADER CORT CONTRECTON HDR HEADER | | | | |
| CL/J CENTERLINE CLNG CELLAR GALV GALVAINIZED CLR CLEAR GEN GENERAL CMP CORRUGATED METAL PIPE GEN GENERAL CMU CONCRETE MASONRY UNIT GLB GLULAM BEAM COTR COLUMN GR GRADE COL COLUMN GR GRADE CONC CONCRETE GSA U.S. GENERAL SERVICES CONF CONFERENCE ADMINISTRATION ADMINISTRATION CONN CONST CONSTRUCTION HB HOSE BIB CONT CONTRACTOR HC HOLLOW CAR MASONN CORR CORRUCAUSATION HB HOSE BIB CONT CONTRACTOR HC HOLLOW CAR MASONN CORR CORRUCAUSATION HB HANCER CORR CORRUCAUSATION HB HANCER CONT CONTRACTOR HC HOLLOW CAR MASONN CORR CORRUCAUSATIONAL HB HANCER CORR CORRUCAUSATINCOATING HB HANCER CORR CORRUCA | | | | |
| CLNG CELING GA GAUV GALVANIZED CMP CORRUGATED METAL PIPE GEN GENERAL CMU CONCRETE MASONRY UNIT GLB GLLUM BEAM CMIT CENTER GLZ GLAZING CO CLEAN OUT GR GRD GRID ONLY COL COLUMN GRD GRID ONLY CONC CONCRETE GSA U.S. GENERAL SERVICES CONN CONNECTION GYP BD GYPSUM BOARD CONN CONNECTION HB HOSE BIB CONT CONTRACTOR HC HOLLOW CAR / HANDICAR CONT CONTRACTOR HC HOLLOW CAR / HANDICAR CORR CORREGATED (ION) HDP HIGH DENTY POLYETHEL CORR CORREGATED (ION) HDR HEADER CORR CONTRECTOR HOW HANDWARE CORR CONTRECTOR HM HOLLOW CAR / HANDICAR CORR CORREGATED HOW HARDWARE CORT CONTRECTOR HOW HARDWARE CORR CONCRETE STANT COATING H | | | FTG | FOOTING |
| CLR CLEAR GALV GALVALED CMP CORRUGATED METAL PIPE GEN GENERAL CMU CONCRETE MASONRY UNIT GLB GLULAM BEAM CNTR CENTER GLZ GLAZNG CO CEAN OUT GR GRADE COL COLUMN GR GRADE CONC CONCRETE GSA U.S. GENERAL SERVICES CONF CONFECTION GYP BD GYPSUM BOARD CONT CONSTRUCTION HB HOSE BIB CONTR CONTRACTOR HC HOLLOW CAP MASONRY CONTR CONTRUCTION HB HOSE BIB CONTR CONTRACTOR HC HOLLOW CAP MASONRY CONTR CONTRACTOR HC HOLLOW CAP MASONRY CORR CORRUGAT(ED) (ION) HDR HEADER CRC CHEMICAL RESISTANT COATING HGR HANGER CSK COUNTERTOPP HMK HOLLOW METAL WEICED CTP CARPET SK COUNTERTOP HMK CTOP CONCRETE WALL HORIZ HORIZ CTP CONTRACTOR HS HEADED STUD CRA CONTRETE SEWER PIPE HM HOLLOW METAL WEICED C | | - | <u></u> | |
| CMPCORRUGATED METAL PIPEGENGENGENLALCMUCONCRETE MASONRY UNITGLBGLULAM BEAMCOTRCENTERGLZGLAZINGCOCLEAN OUTGRGRDGRID ONLYCOLCOLUMNGRDGRDGRID ONLYCONCCONCRETEGSAJJS. GENERAL SERVICESCONNCONNECTIONGYP BDGYPSUM BOARDCONNCONNECTIONHBHOSE BIBCONTCONTRUCTIONHBHOSE BIBCONTCONTRUCTIONHCHOULOW CORE / HANDICAFCONTCONTRACTORHCMHOULOW CORE / HANDICAFCORCORRACTORHCMHOULOW CAP / MASONRYCOORDCOORDINATEHDPEHIGH BENTY POLYETHELCORRCORRACTORHCRHANGERCORRCORRACTED (ION)HDRHEADERCPTCARPETHOWRHANGERCSKCOUNTERSINKHLHALF LITTECSPCONCRETE SWER PIPEHMHOLLOW METALCTOPCOUNTERTOPHMKHOLLOW METALCTOPCOUNTERTOPHMKHOLLOW METALCORCONRETE WALLHCRHARDEDCWCONCRETE WALLHCRHARDEDDEDUBLEHSHEADED STUDDBADEFORMED BAR ANCHORHSHEADED STUDDBADEFORMED BAR ANCHORHSHEADED STUDDBADEFORMED BAR ANCHORHSHEADED STUDDBADEFORMED BAR ANCHORHSHEADED ST | | | | |
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| CTOPCOUNTERTOPHMKHOLLOW METAL KNOCKDOCTR / CNTRCENTERHMWHOLLOW METAL WELDEDCWCONCRETE WALLHORIZHORIZONTALCMCONCRETE WALLHORIZHORIZONTALCMCONCRETE WALLHR(S)HORIZONTALCMCONCRETE WALLHR(S)HORIZONTALCMDEFORMED BAR ANCHORHSHEADED STUDDBADEFORMED BAR ANCHORHSHIGH STRENGTH BOLTDBLDOUBLEHSSHOLLOW STRUCTURAL STEDCDEMAND CRITICAL WELDHTGHEATINGDET / DTLDETAILCONDITIONINGCONDITIONINGDFDIAINETERCONDITIONINGCONDITIONINGDIA / ØDIAMETERIBCINTERNATIONAL BUILDING-DIADEAD LOADIEINVERT ELEVATIONDIDEPDEEPIFCINTERNATIONAL FIRE CODEDRDOWNIFINSIDE FACEDRDOWNIFCINTERNATIONAL FIRE CODEDRDOWNDOWNIFCINTERNATIONAL FIRE CODEDRDOORINCINTERNATIONAL FIRE CODEDRDOWN SPOUTINFOINFORMATIONDWGDRAWINGINSPINSULATIONDWGDRAWINGINSULINSULATIONDWGDRAWINGINSULATION FINISHSYSTEMEIFSEXTERIOR INSULATION FINISHSYSTEMKSYSTEMKSIKIPS PER SQUARE FOOTELECTELEVATIONKSIKIPS PER SQUARE FOOTELEV | | | HL | HALF LITE |
| CTR / CNTRCENTERHMWHOLLOW METAL WELDEDCWCONCRETE WALLHORIZHORIZONTALCWCONCRETE WALLHORIZHORIZONTALCWCONCRETE WALLHR(S)HOUR(S)dPENNY(NAILS)HSHEADED STUDDBADEFORMED BAR ANCHORHSBHIGH STRENGTH BOLTDBLDOUBLEHSSHOLLOW STRUCTURAL STEDCDEMAND CRITICAL WELDHTGHEATING, VENTILATION AN CONDITIONINGDET / DTLDETAILHVACHEATING, VENTILATION AN CONDITIONINGDFDRINKING FOUNTAIN / DOUGLAS FIRHWSHEADED WELD STUDDIA / ØDIAMETERIBCINTERNATIONAL BUILDING: DIA 1ØDIA / ØDIAMETERIBCINTERNATIONAL BUILDING: DISIDE DIAMETERDIADEAD LOADIEINVERT ELEVATION INSIDE FACEDRDOWNIFINSIDE FACEDPDEEPIFCINTERNATIONAL FIRE CODD INFORMATIONDRDOWN SPOUTINFOINFORMATION INSPECTION / INSPECTION / INSPECTORDWGDRAWINGINSPINSUL INSULATION INSTENCEDWLSDOWELSINSULINSULDWLSDOWELSINSULATION FINISH SYSTEMKELECTELECATINONKSIKIPS PER SQUARE FOOT KSIELECTELEVATIONKSIKIPS PER SQUARE FOOT ELEVELEVYELEVATIONKSIKIPS PER SQUARE FOOTELEVELEVATIONKSIKIPS PER SQUARE FOOT | CSP | CONCRETE SEWER PIPE | HM | HOLLOW METAL |
| OWN CONTRACT CW CONCRETE WALL HORIZ HORIZ HORIZ HORIZONTAL HR(S) HOUR(S) HS HEADED STUD DBA DEFORMED BAR ANCHOR HSB HIGH STRENGTH BOLT DBL DOUBLE HSS HOLLOW STRUCTURAL STE DC DEMAND CRITICAL WELD HTG HEATING, VENTILATION AN DET / DTL DETAIL HVAC HEATING, VENTILATION AN DF DRINKING FOUNTAIN / DOUGLAS FIR HWS HEADED WELD STUD DIA / Ø DIAMETER IBC INTERNATIONAL BUILDING DIA DAMETER IBC INTERNATIONAL BUILDING DIM DIMENSION ID INSIDE DIAMETER DL DEAD LOAD IE INVERT ELEVATION DN DOWN IF INSIDE FACE DR DOOR IF INSIDE FACE DR DOOR IMC INFERNATIONAL MECHANC DWG DRAWING INSP INSPECTION / INSPECTOR DWLS DOWELS INT INTERNATIONAL PLUMBING E/ EDGE OF INT JOINT EF EACH FACE JST JOINT EF EACH FACE JST JOINT ELECT < | CTOP | COUNTERTOP | HMK | HOLLOW METAL KNOCKDOV |
| off DONOTE TERMEL HR(S) HOUR(S) d PENNY(NAILS) HS HEADED STUD DBA DEFORMED BAR ANCHOR HS HIGH STRENGTH BOLT DBL DOUBLE HSS HOLLOW STRUCTURAL STE DC DEMAND CRITICAL WELD HTG HEATING DET / DTL DETAIL HVAC HEATING, VENTILATION AN CONDITIONING DET / DTL DETAIL HWS HEADED WELD STUD DIA / Ø DIAMETER CONDITIONING DIA / Ø DIAMETER IBC INTERNATIONAL BUILDING DIA DAPHRAGM IBC INTERNATIONAL BUILDING DIM DIMENSION ID INSIDE FACE DL DEAD LOAD IE INVERT ELEVATION DN DOWN IF INSIDE FACE DP DEEP IFC INTERNATIONAL MECHANC DS DOWN IFC INTERNATIONAL MECHANC DS DOWN SPOUT INFO INFORMATION DWG DRAWING INSP INSPECTION / INSPECTOR DWLS DOWELS INSULATION INT DWLS DOWELS INSULATION INT EIFS EXTRING IPC INTERNATIONAL PLUMBING E | CTR / CNTR | CENTER | | |
| dPENNY(NAILS)HSHEADED STUDDBADEFORMED BAR ANCHORHSBHIGH STRENGTH BOLTDBLDOUBLEHSBHIGH STRENGTH BOLTDCDEMAND CRITICAL WELDHTGHEATINGDET / DTLDETAILHVACHEATING, VENTILATION AN CONDITIONINGDFDRINKING FOUNTAIN / DOUGLAS FIRHWSHEADED WELD STUDDIA / ØDIAMETERUNTERNATIONAL BUILDINGDIA / ØDIAMETERUNTERNATIONAL BUILDINGDIA / ØDOWNIBCINSIDE DIAMETERDLDEAD LOADIEINVERT ELEVATIONDNDOWNIFINSIDE FACEDRDOWNIFCINTERNATIONAL FIRE CODEDRDOORIMCINTERNATIONAL MECHANCDSDOWN SPOUTINFOINFORMATIONDWGDRAWINGINSPINSPECTION / INSPECTORDWLSDOWELSINSULINSULATIONINTINTERNATIONAL PLUMBINGE/EIFSEXTERIOR INSULATION FINISH SYSTEMKELECTELECTRICALKSFKIPS PER SQUARE FOOTELEVELECTTIONELEVATIONKSIKIPS PER SQUARE FOOTELEVELEVATIONKSIKIPS PER SQUARE INCH | CW | CONCRETE WALL | | |
| DBADEFORMED BAR ANCHORHSBHIGH STRENGTH BOLTDBADUBLEHSSHOLLOW STRUCTURAL STEDCDEMAND CRITICAL WELDHTGHEATINGDET / DTLDETAILHVACHEATING, VENTILATION AN CONDITIONINGDFDRINKING FOUNTAIN / DOUGLAS FIRHWSHEADED WELD STUDDIA / ØDIAMETERIBCINTERNATIONAL BUILDINGDIAPHDIAPHRAGMIBCINTERNATIONAL BUILDINGDIMDEAD LOADIEINVERT ELEVATIONDIDEAD LOADIEINVERT ELEVATIONDRDOWNIFINSIDE FACEDRDOORINCINFERNATIONAL FIRE CODEDRDOORINCINFERNATIONAL FIRE CODEDRDOWNIFCINTERNATIONAL FIRE CODEDRDOWNIFCINTERNATIONAL FIRE CODEDRDOWRINSPINSPECTION / INSPECTION / INSPECTORDWGDRAWINGINSPINSULINSULATIONDWGDRAWINGINSULINSULATIONEFEACH FACEJSTJOINTEFEACH FACEJSTJOINTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPS PER SQUARE FOOTELECTELECTRICALKSFKIPS PER SQUARE FOOTELEVELECTRICALKSFKIPS PER SQUARE INCHENEDGE NAILEDGE NAILINCH | | | . , | |
| DBLDOUBLEHSSHOLLOW STRUCTURAL STEDCDEMAND CRITICAL WELDHTGHEATINGDET / DTLDETAILHVACHEATING, VENTILATION AN CONDITIONINGDFDRINKING FOUNTAIN / DOUGLAS FIRHWSHEADED WELD STUDDIA / ØDIAMETERIBCINTERNATIONAL BUILDINGDIAPHDIAPHRAGMIBCINTERNATIONAL BUILDINGDIMDIMENSIONIDINSIDE DIAMETERDLDEAD LOADIEINVERT ELEVATIONDNDOWNIFINSIDE FACEDPDEEPIFCINTERNATIONAL FIRE CODEDRDOORIMCINTERNATIONAL MECHANCDSDOWN SPOUTINFOINFORMATIONDWGDRAWINGINSPINSULATIONDWLSDOWELSINSULINSULATIONE/EXISTINGIPCINTERNATIONAL PLUMBINGE/EACH FACEJSTJOINTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTELEVELECTRICALKSIKIPS PER SQUARE INCHENEDGE NAILKIPS PER SQUARE INCH | | · · · · · · | | |
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| DET / DTLDETAILHVACHEATING, VENTILATION AN CONDITIONINGDET / DTLDETAILHWSHEADED WELD STUDDFDRINKING FOUNTAIN / DOUGLAS FIRHWSHEADED WELD STUDDIA / øDIAMETERIBCINTERNATIONAL BUILDINGDIAPHDIAPHRAGMIBCINTERNATIONAL BUILDINGDIMDIMENSIONIDINSIDE DIAMETERDLDEAD LOADIEINVERT ELEVATIONDNDOWNIFINSIDE FACEDPDEEPIFCINTERNATIONAL FIRE CODEDRDOORIMCINTERNATIONAL MECHANCDSDOWN SPOUTINFOINFORMATIONDWGDRAWINGINSPINSPECTION / INSPECTORDWLSDOWELSINSULINSULATIONE/EXISTINGIPCINTERNATIONAL PLUMBINGE/EDGE OFINTJOINTEFEACH FACEJSTJOINTEFEACH FACEISTJOINTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTELEVELEVATIONKSIKIPS PER SQUARE INCHENEDGE NAILEDGE NAILINCH | | | | |
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| DIA / øDIAMETERDIAPHDIAPHRAGMIBCINTERNATIONAL BUILDINGDIMDIMENSIONIDINSIDE DIAMETERDLDEAD LOADIEINVERT ELEVATIONDNDOWNIFINSIDE FACEDPDEEPIFCINTERNATIONAL FIRE CODEDRDOORIMCINFORMATIONDSDOWN SPOUTINFOINFORMATIONDWGDRAWINGINSPINSPECTION / INSPECTORDWLSDOWELSINSULINSULATIONE/EJGE OFINTINTERNATIONAL PLUMBINGE/EACH FACEJNTJOINTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTENEDGE NAILKSIKIPS PER SQUARE INCH | | | HWS | HEADED WELD STUD |
| DIAPHDIAPHRAGMIBCINTERNATIONAL BUILDINGDIMDIMENSIONIDINSIDE DIAMETERDLDEAD LOADIEINVERT ELEVATIONDNDOWNIFINSIDE FACEDPDEEPIFCINTERNATIONAL FIRE CODEDRDOORIMCINTERNATIONAL MECHANCDSDOWN SPOUTINFOINSPECTION / INSPECTORDWGDRAWINGINSULINSULATIONDWLSDOWELSINTINTERNATIONAL PLUMBINGE/EXISTINGIPCINTERNATIONAL PLUMBINGE/EACHJNTJOINTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTENEDGE NAILKSIKIPS PER SQUARE INCH | | | | |
| DIMDIMENSIONDLDEAD LOADIEINVERT ELEVATIONDNDOWNIFINSIDE FACEDPDEEPIFCINTERNATIONAL FIRE CODEDRDOORIMCINTERNATIONAL MECHANCDSDOWN SPOUTINFOINFORMATIONDWGDRAWINGINSPINSPECTION / INSPECTORDWLSDOWELSINSULINSULATIONE/EXISTINGIPCINTERNATIONAL PLUMBINGE/EDGE OFINTJOINTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTENEDGE NAILKSIKIPS PER SQUARE INCH | | | | INTERNATIONAL BUILDING (|
| DLDEAD LOADIFINSIDE FACEDNDOWNIFCINTERNATIONAL FIRE CODEDPDEEPIFCINTERNATIONAL FIRE CODEDRDOORIMCINTERNATIONAL MECHANCDSDOWN SPOUTINFOINFORMATIONDWGDRAWINGINSPINSPECTION / INSPECTORDWLSDOWELSINSULINSULATIONDWLSDOWELSINTINTERIORE/EXISTINGIPCINTERNATIONAL PLUMBINGE/EDGE OFJNTJOINTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTENEDGE NAILKSIKIPS PER SQUARE INCH | DIM | DIMENSION | | |
| DNDOWNDPDEEPIFCINTERNATIONAL FIRE CODEDRDOORIMCINTERNATIONAL MECHANCDSDOWN SPOUTINFOINFORMATIONDWGDRAWINGINSPINSPECTION / INSPECTORDWLSDOWELSINSULINSULATIONDVEXISTINGIPCINTERNATIONAL PLUMBINGE/EDGE OFINTJOINTEFEACH FACEJNTJOINTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTENEDGE NAILISIISI PER SQUARE INCH | DL | DEAD LOAD | | |
| DFDLLFIMCINTERNATIONAL MECHANCDRDOORIMCINTERNATIONAL MECHANCDSDOWN SPOUTINFOINFORMATIONDWGDRAWINGINSPINSPECTION / INSPECTORDWLSDOWELSINSULINSULATIONDWLSDOWELSINTINTERNATIONAL PLUMBINGE/EXISTINGIPCINTERNATIONAL PLUMBINGE/EDGE OFINTJOINTEAEACHJNTJOINTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTENEDGE NAILINTINTS PER SQUARE INCH | DN | DOWN | | |
| DNDOONINFOINFORMATIONDSDOWN SPOUTINFOINFORMATIONDWGDRAWINGINSPINSPECTION / INSPECTORDWLSDOWELSINSULINSULATIONDWLSDOWELSINTINTERNATIONAL PLUMBINGE/EDGE OFIPCINTERNATIONAL PLUMBINGE/EDGE OFJNTJOINTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTENEDGE NAILKIPS PER SQUARE INCHEN | DP | DEEP | | |
| DSDOWN SPOOLDWGDRAWINGINSPINSPECTION / INSPECTORDWLSDOWELSINSULINSULATIONDWLSDOWELSINTINTERIOR(E) / EXISTEXISTINGIPCINTERNATIONAL PLUMBINGE/EDGE OFIPCINTEAEACHJNTJOINTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTELEVELEVATIONEDGE NAILKSIKIPS PER SQUARE INCH | | | | |
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| DWLSDOWLLSINTINTERIOR(E) / EXISTEXISTINGIPCINTERNATIONAL PLUMBINGE/EDGE OFIPCINTERNATIONAL PLUMBINGEAEACHJNTJOINTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTELEVELEVATIONKSIKIPS PER SQUARE INCHENEDGE NAILEDGE NAILEN | | | | |
| (E) / EXISTEXISTINGIPCINTERNATIONAL PLUMBINGE/EDGE OF | DWLS | DOWELS | | |
| E/EXISTINGE/EDGE OFEAEACHEAEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMELECTELECTRICALELEVELEVATIONENEDGE NAIL | | | | |
| EAEACHJNTJOINTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTELEVELEVATIONKSIKIPS PER SQUARE INCHENEDGE NAILKSIKIPS PER SQUARE INCH | • • | | | |
| EALAGITJSTJOISTEFEACH FACEJSTJOISTEIFSEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTELEVELEVATIONKSIKIPS PER SQUARE INCHENEDGE NAILEDGE NAILEDGE NAIL | | | JNT | JOINT |
| EIEXTERIOR INSULATION FINISH SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTELEVELEVATIONKSIKIPS PER SQUARE INCHENEDGE NAILEDGE NAILEDGE NAIL | | | | |
| SYSTEMKKIPSELECTELECTRICALKSFKIPS PER SQUARE FOOTELEVELEVATIONKSIKIPS PER SQUARE INCHENEDGE NAILEDGE NAILEDGE NAIL | | | | |
| ELEVELEVATIONKSIKIPS PER SQUARE INCHENEDGE NAIL | | | | |
| EN EDGE NAIL | | ELECTRICAL | | |
| | | | KSI | KIPS PER SQUARE INCH |
| ENGR ENGINEER | | | | |
| | ENGR | ENGINEER | | |

| | L | ANGLE | R | RADIUS | NORTH |
|---|---------------|--------------------------------------|----------------|---------------------------------|--------------|
| EPOXY PAINT / EDGE OF PAVEMENT | LAM | LAMINATE | RAD | RADIUL | |
| ETHYLENE PROPYLENE DIENE | LAV | LAVATORY | RB | RUBBER BASE | |
| MONOMER | LB | LAG BOLT | RBE | ROOF BASE ELEVATION | |
| EQUAL EACH SIDE | LL | LIVE LOAD | RCP | REFLECTED CEILING PLAN | |
| | LLV | LONG LEG VERTICAL | RD | ROOF DRAIN | GRIDLIN |
| EPOXY TRAFFIC COATING / ETCETERA EACH WAY | LONG / LONGIT | LONGITUDINAL | RECEPT | RECEPTION(IST) | |
| | LP | | REF | REFERENCE / REFRIGERATOR | |
| EXPOSED STRUCTURE | LSL | LAMINATED STRAND LUMBER | REINF | REINFORCING | |
| EXPANSION JOINT | LVL | LAMINATED VENEER LUMBER | REQ / REQ'D | REQUIRED | |
| EXTERIOR | LWC | LIGHTWEIGHT CONCRETE | REV | REVISION | |
| | | | RM | ROOM | DETAIL F |
| FACE OF | Μ | MIRROR | RO | ROUGH OPENING | |
| FACE OF STUD | M/E/P | MECHANICAL/ ELECTRICAL/ PLUMBING | ROW | RIGHT OF WAY | |
| FLAT BAR | | OR PROCESS | | | |
| FACE OF CURB | MANF | MANUFACTURER | S | STAIN | |
| FLOOR DRAIN | MAS | MASONRY | SAT | SUSPENDED ACOUSTICAL TILE | |
| FIRE DEPARTMENT CONNECTION | MATL | MATERIAL | SC | SEALED CONCRETE / SOLID CORE | |
| FIRE EXTINGUISHER | MAX | MAXIMUM | | WOOD | KEYNOT |
| FACTORY FINISH / FINISHED FACE | MB | MACHINE BOLT | SCHED | SCHEDULE | |
| FINISH FLOOR ELEVATION | MDF/MDO | MEDIUM DENSITY FIBERBOARD / | SCM | STRUCTURAL CLAY MASONRY | |
| FINISH(ED) | | OVERLAY | SF | STORE FRONT / SQUARE FEET | |
| FLUSH | MECH | MECHANICAL | SFRS | SEISMIC FORCE RESISTING SYSTEM | |
| FLOOR | MFD | MANUFACTURED | SHTG / SHT'G | SHEATHING | REVISIO |
| FACTORY MUTUAL | MFG | MANUFACTURING | SIM | SIMILAR | |
| FIELD NAILING | MFR | MANUFACTURER | SLRS | SEISMIC LOAD RESISTIVE SYSTEM | |
| FOUNDATION | MGR | MANAGER | SLV | SHORT LEG VERTICAL | |
| FACE OF CONCRETE | MH | MAN HOLE | SMS | SHEET METAL SCREW | |
| FACE OF FINISH | MIN | MINIMUM | SOG | SLAB ON GRADE | REVISIO |
| FURNISH BY OWNER INSTALL BY | MISC | MISCELLANEOUS | SP | SPACE(D)(S) | |
| CONTRACTOR | MK | MARK | SPEC(S) | SPECIFICATION(S) | |
| FACE OF MASONRY | MLP | METAL LINEAR PANEL | SQ | SQUARE | |
| FACE OF STUD | MO | MASONRY OPENING | SS | STAINLESS STEEL / SOLID SURFACE | PRO |
| FACE OF WALL | MOD BIT | MODIFIED BITUMINOUS | ST | STONE | <u>FNU</u> |
| FAR SIDE | MP | METAL PANEL | STA PT | STATION POINT | A. TI |
| FEET/FOOT FIRE TREATED | MTL | METAL | STAGG | STAGGERED | A. IN |
| FOOTING | | | STD | STANDARD | B. A |
| | (N) | NEW | STIFF | STIFFENER | E |
| GAUGE | NFPA | NATIONAL FIRE PROTECTION AGENCY | STL | STEEL | C. VI |
| GALVANIZED | NIC | NOT IN CONTRACT | STRUCT | STRUCTURAL | 0 |
| GENERAL | NO. / # | NUMBER | SUSP | SUSPENDED | C |
| GLULAM BEAM | NOM | NOMINAL | SV | SHEET VINYL | D. C |
| GLAZING | NR | NON RATED | 30 | | C |
| GRADE | NS | NEAR SIDE | т | TEMPERED | S |
| GRID ONLY | NTE | NOT TO EXCEED | T&B | | E. R |
| U.S. GENERAL SERVICES | NTS | NOT TO SCALE | | TOP AND BOTTOM | E |
| ADMINISTRATION | NIO | NOT TO SCALE | T/ | | PI PI |
| GYPSUM BOARD | O/A | OVERALL | TC | | F. D |
| | OC OC | ON CENTER | TEMP | TEMPERATURE / TEMPORARY | 0 |
| HOSE BIB | OD | OUTSIDE DIAMETER | THK | THICK / THICKNESS | G. TI |
| HOLLOW CORE / HANDICAP | OFCI | OWNER FURNISHED, CONTRACTOR | TL | TOTAL LOAD | FI |
| HOLLOW CLAY MASONRY | OFCI | INSTALLED | TN | TOE NAIL | FI |
| HIGH DENSITY POLYETHELENE | OFOI | OWNER FURNISHED, OWNER | ТО | TOP OF | H. D I. C |
| HEADER | 0101 | INSTALLED | TOF | TOP OF FOOTING | ı. C |
| HARDWARE | ОН | OPPOSITE HAND | TOS | TOP OF STEEL | J. G |
| HANGER | OHD | OVERHEAD DOOR | TOW | TOP OF WALL | K. S. |
| HALF LITE | OPNG | OPENING | TPO | THERMOPLASTIC POLYOLEFIN | М |
| HALF LITE HOLLOW METAL | OPP | OPPOSITE | TRANS / TRANSV | TRANSVERSE | R |
| HOLLOW METAL HOLLOW METAL KNOCKDOWN | OSF / O/FACE | OUTSIDE FACE | TS | TUBE STEEL | L. T C |
| HOLLOW METAL KNOCKDOWN HOLLOW METAL WELDED | OSSC | OREGON STRUCTURAL SPECIALTY | TYP | TYPICAL | В |
| HORIZONTAL | | CODE | | | 0 |
| | OTS | OPEN TO STRUCTURE | U/S | UNDERSIDE | M. A |
| | | | UC | UNDER COUNTER | A |
| HEADED STUD HIGH STRENGTH BOLT | Р | PAINT | UL | UNDER WRITERS LABORATORIES | N. E |
| | P-LAM | PLASTIC LAMINATE | UNO / UON | UNLESS NOTED OTHERWISE | P |
| HOLLOW STRUCTURAL STEEL | P.E. | PROFFESSIONAL ENGINEER | USG | UNITED STATES GYPSUM | |
| | PB | PARTICLE BOARD | | | |
| HEATING, VENTILATION AND AIR CONDITIONING | PDA / PAF | POWDER DRIVEN ANCHORS/POWDER | VCT | VINYL COMPOSITION TILE | |
| HEADED WELD STUD | | ACTUATED FASTENER | VERT | VERTICAL | |
| | PJ | PANEL JOINT | VEST | VESTIBULE | |
| | PL/ | PLATE | VFY | VERIFY | |
| INTERNATIONAL BUILDING CODE | PLB | PARALLAM BEAM | VIF | VERIFY IN FIELD | |
| | PLMB | PLUMBING | VP | VISION PANEL | |
| | PLY / PLYWD | PLYWOOD | | | |
| | PNL | PANEL | W/ | WITH | |
| INTERNATIONAL FIRE CODE | PR | PAIR | W/CRC | COATING WITH CHEMICAL | |
| INTERNATIONAL MECHANCIAL CODE | PS | POUR STRIP | - | RESISTANCE | |
| INFORMATION | | | W/O | WITHOUT | |
| INSPECTION / INSPECTOR | PSF | POUNDS PER SQUARE FOOT | WB | WOOD BASE | |
| INSULATION | PSI | POUNDS PER SQUARE INCH | WC | WATER CLOSET / WALL COVERING | |
| INTERIOR | PSL | PARALLEL STRAND LUMBER | WD | WOOD | |
| INTERNATIONAL PLUMBING CODE | PT | PRESSURE TREATED / PORCELAIN TILE | WF | WIDE FLANGE BEAM | |
| | PVC | POLY VINYL CHLORIDE | WH | WATER HEATER | |
| JOINT | PVC PVMT | POLY VINYL CHLORIDE PAVEMENT | WP | WATER PROOF / WOOD PANELING / | |
| 10107 | | | | WORK POINT | |
| JOIST | | | | | |

WR

WS

WWF

WWR

WRGB

WATER RESISTANT

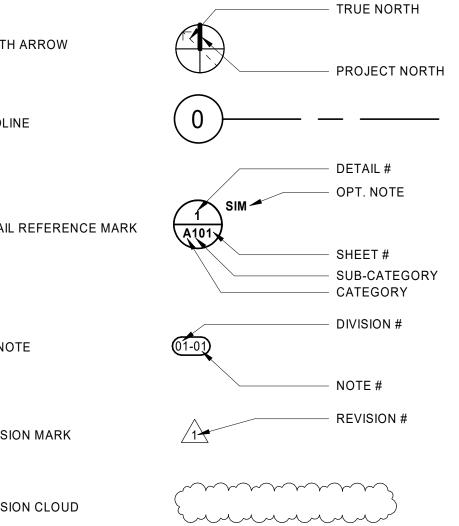
WELDED WIRE FABRIC

WELDED WIRE MESH

WATER RESISTANT GYPSUM BOARD

WATER STOP / WELDED STUD

SYMBOLS AND REFERENCES



OJECT GENERAL NOTES

THE DRAWINGS LOCATE PRODUCTS, SURFACES, AND MATERIALS AND THE NOTES CONVEY DESIGN INTENT. THE PROJECT INTENT IS TO PROVIDE FOR A COMPLETE, WORKING SYSTEM. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE LATEST ADOPTED BUILDING CODE EDITION, AND TO CONDITIONS AND SPECIFICATIONS OF ALL GOVERNING AUTHORITIES. VERIFY AND CONFIRM ALL CONDITIONS, DIMENSIONS, AND LAYOUT INFORMATION PRIOR TO START OF CONSTRUCTION. NOTIFY MACKENZIE OF ANY DISCREPANCIES PRIOR TO START OF WORK. ANY CORRECTION WORK REQUIRED AS A RESULT OF NOT REPORTING SUCH DISCREPANCIES SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR AND SUBCONTRACTORS SHALL CAREFULLY EXAMINE THE SITE AND THE CONSTRUCTION DOCUMENTS OF THE ENTIRE WORK. INCONSISTENCIES IN THE PLANS OR

SPECIFICATIONS SHALL BE CALLED TO THE ATTENTION OF MACKENZIE. REFER TO ENLARGED PLANS AND ELEVATIONS WHERE INDICATED FOR ADDITIONAL INFORMATION. ENLARGED PLANS TAKE PRECEDENCE OVER PLANS OF SMALLER SCALE, AND DETAILS TAKE PRECEDENCE OVER PLANS. IN THE CASE OF A CONFLICT, THE HIGHEST COST OPTION SHOULD BE PRICED. DETAIL REFERENCES SHALL BE APPLIED TO ALL INSTANCES WHERE THE SAME CONDITIONS OCCUR, UNLESS NOTED OTHERWISE.

THE TERMS "ABOVE FINISH FLOOR" (AFF) AND "FINISH FLOOR ELEVATION" (FFE) REFER TO FINAL FINISHED FLOOR ELEVATION, WHETHER BUILT-UP SLAB, COMPOSITE DECK, OR RAISED ACCESS FLOOR. DO NOT SCALE DRAWINGS. CUTTING AND DRILLING OF STRUCTURAL MEMBERS NOT DETAILED REQUIRES THE WRITTEN

PERMISSION OF THE STRUCTURAL ENGINEER OF RECORD. GROUND FLOOR ELEVATION OF 0'-0" = 61.1' AS INDICATED ON CIVIL DRAWINGS. SAVE AND RECYCLE DEMOLITION DEBRIS AS APPLICABLE. ALL DEMOLISHED OR REMOVED EXISTING MATERIAL SHALL BE LEGALLY DISPOSED. COORDINATE WITH AUTHORITY HAVING JURISDICTION

REQUIREMENTS FOR RECYCLING/RE-USE OF DEMOLITION DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE RESULTING FROM THEIR WORK. THE CONTRACTOR WILL COORDINATE CLEAN UP OF ALL AREAS AFFECTED BY DUST OR ANY MATERIALS, BOTH DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT, INCLUDING THE INSIDE OF ALL WINDOWS AS NECESSARY SO THAT THE SPACE IS READY FOR OCCUPANCY BY TENANT. ALL DESIGN-BUILD ITEMS, SYSTEMS, AND ELEMENTS ARE TO BE SUBMITTED FOR REVIEW AND APPROVED BY MACKENZIE. EXISTING MATERIAL NOTED TO BE RETURNED TO THE OWNER SHALL BE SAFELY STORED AND PROTECTED UNTIL IT IS REMOVED FROM THE SITE BY THE OWNER



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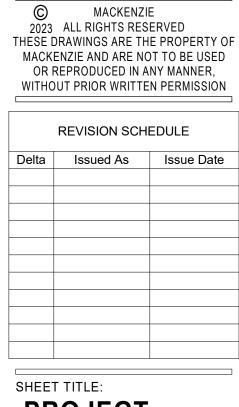
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Project

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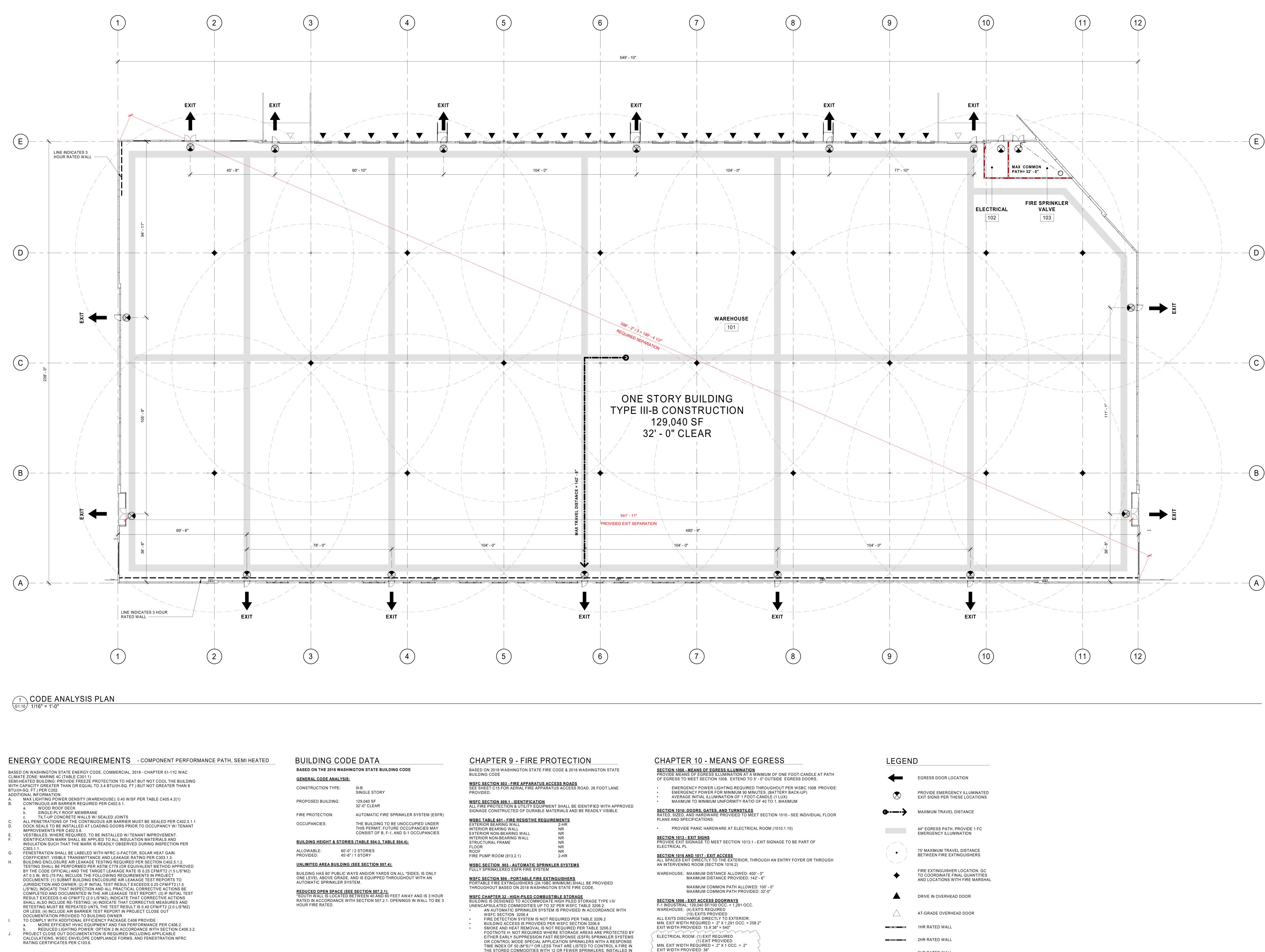


PROJECT GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

SHEET



PERMIT SET 6/28/2023 Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/28/2023 2:46:51 PM 12" = 1'-0"



| E 2018 WASHINGTON STATE BUILDING CODE | | | | |
|---|---|--|--|--|
| DE ANALYSIS: | | | | |
| ON TYPE: | III-B SINGLE STORY | | | |
| UILDING: | 129,040 SF 32'-0" CLEAR | | | |
| TION: | AUTOMATIC FIRE SPRINKLER SYSTEM (ESFR) | | | |
| S: | THE BUILDING TO BE UNOCCUPIED UNDER THIS PERMIT. FUTURE OCCUPANCIES MAY CONSIST OF B, F-1, AND S-1 OCCUPANCIES. | | | |
| GHT & STORIES (TABLE 504.3, TABLE 504.4): | | | | |
| 60'-0" / 2 STORIES 45'-6" / 1 STORY | | | | |
| REA BUILDING (SEE SECTION 507.4): | | | | |

- THE STORED COMMODITIES WITH 12 OR FEWER SPRINKLERS, INSTALLED IN ACCORDANCE WITH NFPA 13. DRAFT CURTAINS ARE NOT REQUIRED PER TABLE 3206.2 •

FIRE SPRINKLER VALVE: (MIN. EXIT WIDTH REQUIRED = .2" X 2 OCC. = .4"

EXIT WIDTH PROVIDED: 72" SECTION 1022: EXITS

<u>SECTION 1028: EXIT DISCHARGE</u> ALL EXITS DISCHARGE AT THE GROUND LEVEL. SEE SITE PLAN

| - MEANS OF EGRESS | LEGEND |
|---|---|
| OF EGRESS ILLUMINATION RESS ILLUMINATION AT A MINIMUM OF ONE FOOT-CANDLE AT PATH ECTION 1008. EXTEND TO 5' - 0" OUTSIDE EGRESS DOORS. | EGRESS DOOR LOCATION |
| OWER LIGHTING REQUIRED THROUGHOUT PER WSBC 1008 PROVIDE: OWER FOR MINIMUM 90 MINUTES. (BATTERY BACK-UP) L ILLUMINATION OF 1 FOOT-CANDLE (1 LUX) NIMUM UNIFORMITY RATIO OF 40 TO 1, MAXIMUM | PROVIDE EMERGENCY ILLUMINATED EXIT SIGNS PER THESE LOCATIONS |
| GATES, AND TURNSTILES RDWARE PROVIDED TO MEET SECTION 1010 - SEE INDIVIDUAL FLOOR IONS. | G → → → MAXIMUM TRAVEL DISTANCE |
| HARDWARE AT ELECTRICAL ROOM (1010.1.10) | 44" EGRESS PATH, PROVIDE 1 FC EMERGENCY ILLUMINATION |
| TO MEET SECTION 1013.1 - EXIT SIGNAGE TO BE PART OF <u>- EXIT ACCESS</u> CTLY TO THE EXTERIOR, THROUGH AN ENTRY FOYER OR THROUGH (SECTION 1016.2) | • 75' MAXIMUM TRAVEL DISTANCE BETWEEN FIRE EXTINGUISHERS |
| M DISTANCE ALLOWED: 400' - 0" M DISTANCE PROVIDED: 142' - 6" | FIRE EXTINGUISHER LOCATION. GC TO COORDINATE FINAL QUANTITIES AND LOCATIONS WITH FIRE MARSHAL |
| A COMMON PATH ALLOWED: 100' - 0" A COMMON PATH PROVIDED: 32'-0" <u>CESS DOORWAYS</u> SF/100 OCC. = 1,291 OCC. | DRIVE IN OVERHEAD DOOR |
| REQUIRED S PROVIDED DIRECTLY TO EXTERIOR. | AT-GRADE OVERHEAD DOOR |
| RED = .2" X 1,291 OCC. = 258.2" 15 X 36" = 540" | 1HR RATED WALL |
| EXIT REQUIRED EXIT PROVIDED RED = .2" X 1 OCC. = .2" | 2HR RATED WALL |
| (1) EXIT REQUIRED (1) EXIT PROVIDED | 3HR RATED WALL |

COMPONENTS AND OPENINGS ARE SHOWN ON THIS SHEET AND INDIVIDUAL FLOOR PLANS.



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BRETT TIMOTHY CONWAY STATE OF WASHINGTON MACKENZIE 2023 ALL RIGHTS RESERVED THESE DRAWINGS ARE THE PROPERTY OF MACKENZIE AND ARE NOT TO BE USED OR REPRODUCED IN ANY MANNER,

| WITHOUT PRIOR WRITTEN PERMISSION | | | | |
|----------------------------------|------------|------------|--|--|
| REVISION SCHEDULE | | | | |
| Delta | Issued As | Issue Date | | |
| 1 | PLAN CHECK | 11/07/23 | | |
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| SHEET TITLE: | | | | |

CODE ANALYSIS PLAN

SHEET



PERMIT SET 6/28/2023 Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 11/20/2023 2:15:00 PM As indicated

GENERAL STRUCTURAL NOTES

| 1. | GOVERNING BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE WITH WASHINGTON STATE AMENDMENTS |
|----|---|
| 2. | RISK CATEGORY II |
| 3. | LIVE |
| 1 | ROOF |
| ŧ. | GROUND SNOW (Pg) |
| | FLAT ROOF SNOW LOAD (Pf) |
| | |
| | SLOPED ROOF SNOW (Ps) |
| | |
| 5. | (SNOW BUILD-UP IN ACCORDANCE w/ IBC) WIND |
|). | |
| | BASIC WIND SPEED (3 SECOND GUST) |
| | EXPOSURE |
| i. | |
| | 0.2 SEC. SPECTRAL RESPONSE ACCELERATION (Ss) 1.264 |
| | 1.0 SEC. SPECTRAL RESPONSE ACCELERATION (S1) |
| | DESIGN SPECTRAL ACCELERATION (SDS) |
| | DESIGN SPECTRAL ACCELERATION (SD1) |
| | SITE CLASSIFICATION F* |
| | SEISMIC DESIGN CATEGORY D |
| | IMPORTANCE FACTOR |
| | SEISMIC FORCE RESISTING SYSTEM (SFRS) |
| | BUILDING (LEVEL 1 TO ROOF): |
| | BEARING SPECIAL REINFORCED CONCRETE SHEARWALLS |
| | R |
| | DESIGN RESPONSE COEFFICIENT (Cs) 0.169 |
| | BASE SHEAR (V) |
| | ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE |
| | * PARAMETERS ARE FOR SITE CLASS D, WHICH CAN BE USED FOR STRUCTURES WITH A |
| | FUNDAMENTAL PERIOD OF 0.5 SEC OR LESS PER ASCE 7-16 20.3.1 |

GENERAL

DESIGN CRITERIA

- 1. THE PROJECT SPECIFICATIONS, DRAWINGS, STANDARD DETAILS, DETAILS IN THE DRAWINGS, AND THE STRUCTURAL NOTES ARE TO BE COMPLEMENTARY. IN THE CASE OF AN INCONSISTENCE NOT CLARIFIED BY THE DESIGNER OF RECORD THE MOST STRINGENT, HIGHEST QUALITY AND BEST QUALITY PROVISIONS SHALL BE PROVIDED
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS BEFORE CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. DO NOT SCALE DRAWINGS; COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 3. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE WITH AMENDMENTS.
- 4. SEE ARCHITECTURAL DRAWINGS INCLUDING BUT NOT LIMITED TO THE FOLLOWING: A. SIZE AND LOCATION OF ALL OPENINGS. EXCEPT AS NOTED SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NONBEARING WALLS
- SIZE AND LOCATION OF ALL CONCRETE CURBS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGES IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC. D. SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS, EXCEPT AS SHOWN.
- FLOOR AND ROOF FINISHES. . STAIR FRAMING AND DETAILS. EXCEPT AS SHOWN. G. DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.
- 5. SEE CONSTRUCTION DOCUMENTS FOR THE FOLLOWING, INCLUDING BUT NOT LIMITED TO: A. PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR B. ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.
- CONCRETE INSERTS FOR FIXTURES. . SIZE AND LOCATION OF MACHINE OR EQUIPMENT BASES, ANCHOR BOLTS FOR MOTOR MOUNTS. SEISMIC BRACING REQUIREMENTS.
- 6. METHODS, PROCEDURES, AND SEQUENCES OF CONSTRUCTION ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE AT ALL STAGES OF CONSTRUCTION. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS AND VISITORS DURING CONSTRUCTION. SUCH MEASURE SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR CONSTRUCTION LOADS, ETC. VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE REVIEW OF THE
- ABOVE ITEMS. 8. OPENINGS, POCKETS, ETC. SHALL NOT BE PLACED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER.
- 9. CONSTRUCTION LOAD (MATERIAL AND EQUIPMENT) SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/ OR BRACING WHERE STRUCTURES HAVE NOT ATTAINED DESIGN STRENGTH.
- 10. WHEN A DETAIL IS IDENTIFIED, THE CONTRACTOR SHALL APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS MADE IN EVERY INSTANCE
- 11. ANY REFERENCES TO THE RECOMMENDATIONS, GUIDELINES, OR REQUIREMENTS IN NATIONAL PUBLICATIONS, SUCH AS BUT NOT LIMITED TO ASCE, ASTM, IBC, ACI, AISC, NDS, OR AWS, IN THE CONSTRUCTION DOCUMENTS SHALL BE FOLLOWED AS IF THEY ARE SPECIFICALLY MANDATED.

FOUNDATION

- 1. THE SUBSURFACE INFORMATION AND FOUNDATION DESIGN ARE BASED ON THE FOLLOWING GEOTECHNICAL REPORT: REPORT PREPARED BY **TERRA ASSOCIATES, INC JANUARY 12, 2022**
- 2. FOUNDATIONS FOR THE STRUCTURE HAVE BEEN DESIGNED USING THE FOLLOWING VALUES: LONG-DURATION ALLOWABLE NET SOIL BEARING PRESSURE. SHORT-DURATION ALLOWABLE NET SOIL BEARING PRESSURE . . (4/3)*(LONG DURATION) 3. THE CONTRACTOR SHALL PERFORM EXCAVATIONS, FOOTING CONSTRUCTION AND PREPARATION OF THE SUB GRADE UNDER THE SLAB ON GRADE IN ACCORDANCE WITH THE RECOMMENDATIONS CONTAINED IN
- THE GEOTECHNICAL REPORT AND THE PROJECT SPECIFICATIONS. 4. FOUNDATION CONDITIONS NOTED DURING CONSTRUCTION, WHICH DIFFER FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE STRUCTURAL ENGINEER AND/OR
- GEOTECHNICAL ENGINEER BEFORE FURTHER CONSTRUCTION IS ATTEMPTED. 5. CONTRACTOR WILL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE, GROUND, OR SEEPAGE WATER 6. ALL ABANDONED FOOTINGS, UTILITIES, ETC., THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE
- REMOVED 7. SITE PREPARATION, OVER-EXCAVATION / RECOMPACTION OF SOILS, AND THE INSTALLATION OF
- FOUNDATION AND WALL DRAINS AS REQ'D SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS PRESENTED IN THE SOILS REPORT REFERENCED ABOVE. 8. CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, AND
- SHORING REQUIRED TO SAFELY RETAIN THE EARTH BANKS. MINIMUM FROST DEPTH FOR BOTTOM-OF-FOUNDATIONS . . 18" BELOW GRADE 10. REFERENCE FOUNDATION PLANS FOR TOP OF FOOTING INFORMATION
- 11. CONTRACTOR TO REVIEW ALL TOP AND BOTTOM FOOTING ELEVATIONS, SITE GRADING PLANS, UTILITIES AND EXISTING CONDITIONS. NOTIFY EOR OF ANY DISCREPANCIES PRIOR TO EXCAVATION AND FOOTING INSTALL 12. CONTINUOUS FOOTINGS AT VARYING ELEVATIONS SHALL BE STEPPED PER TYPICAL DETAILS. SLOPING OF
- FOOTINGS IS PROHIBITED 13. UTILITIES MAY NOT BE PLACED THROUGH OR BELOW FOUNDATION WITHOUT PRIOR APPROVAL BY THE 14. WHERE EXISTING FOOTINGS OCCUR, FOOTING ELEVATIONS ARE APPROXIMATE AND ARE BASED ON EXISTING INFORMATION PROVIDED. CONTRACTOR TO FIELD VERIFY AND NOTIFY EOR OF ANY DISCREPANCIES DISCOVERED.
- 15. PROVIDE PERIMETER FOOTING DRAINS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.

1. CONCRETE MIXES SHALL BE FULLY DOCUMENTED AND REVIEWED BY A QUALIFIED TESTING LABORATORY AND REVIEWED BY THE ENGINEER. REVIEW OF MIX SUBMITTALS BY THE ENGINEER OF RECORD INDICATES ONLY THAT THE INFORMATION PRESENTED CONFORMS GENERALLY WITH CONTRACT DOCUMENTS. CONTRACTOR OR SUPPLIER MAINTAINS FULL RESPONSIBILITY FOR SPECIFIED PERFORMANCE. MIX SUBMITTAL SHALL INCLUDE THE AMOUNTS OF CEMENT, CEMENTITIOUS MATERIAL, FINE AND COARSE AGGREGATE, WATER AND ADMIXTURES, AS WELL AS THE WATER-CEMENT RATIO, SLUMP, CONCRETE YIELD AND SUBSTANTIATING STRENGTH TEST DATA. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH ACI 318 AND PROJECT SPECIFICATIONS. MIX SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW. 2. AN INDEPENDENT TESTING AGENCY TO PERFORM FIELD QUALITY CONTROL TEST. PROVIDE FREE ACCESS TO CONCRETE OPERATIONS AT PROJECT SITE AND COOPERATE WITH APPOINTED FIRM. SUBMIT PROPOSED MIX DESIGN OF EACH CLASS OF CONCRETE TO INSPECTION AND TESTING FIRM FOR REVIEW PRIOR TO COMMENCEMENT OF CONCRETE OPERATIONS. COMPRESSIVE STRENGTH TESTS: ASTM C39/C39M. FOR EACH TEST, MOLD, AND CURE THREE CONCRETE TEST CYLINDERS. OBTAIN TEST SAMPLES FOR EVERY 100 CU YD OR LESS OF EACH CLASS OF CONCRETE PLACED. TAKE ONE ADDITIONAL THREE TEST CYLINDERS DURING COLD & HOT WEATHER CONCRETING AS DEFINED BY ACI 305 AND ACI 306, CURED ON JOB SITE UNDER SAME CONDITIONS AS CONCRETE IT REPRESENTS. PERFORM ONE SLUMP TEST FOR EACH SET OF TEST CYLINDERS TAKEN. FOLLOWING PROCEDURES OF ASTM C143/C143M. PERFORM ONE AIR CONTENT TEST FOR EACH SET OF COMPRESSIVE STRENGTH SPECIMENS, COMPLYING WITH ASTM C231. 3. PROVIDE CONSTRUCTION OR CONTROL JOINTS IN SLABS-ON-GRADE AS SHOWN IN TYPICAL DETAILS SO AS TO DIVIDE SLABS INTO APPROXIMATELY RECTANGULAR AREAS NOT OVER 225 SQUARE FEET WITH A RATIO OF LONG TO SHORT SIDES NOT OVER 1.5 AND SPACING NOT EXCEEDING 15'-0" ON CENTER. IN ADDITION, PROVIDE CONTROL JOINTS OFF OF ALL REENTRANT CORNERS TO INTERSECTION OF CONTROL JOINTS BEYOND. PROVIDE CONTROL JOINTS TO CONNECT OFFSET COLUMNS, PITS AND OTHER INTERRUPTIONS TO 4. CONCRETE COVER PROTECTION FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS: (SEE ACI 318 TABLE 20.6.1.3.1 FOR CONDITIONS NOT NOTED.) A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH B. CONCRETE EXPOSED TO EARTH OR WEATHER: BARS #6 AND LARGER

CONCRETE

THE SLAB

PERMITTED

PROVIDED

TABLE 19.3.3.1

5000 PSI.

SHEATHING

STUDS

JOISTS

PI ATES

U.N.O.

#3 TO #18 (WELDABLE).

CONCRETE (SIDEWALKS, APRONS, ETC).

BARS #5 AND SMALLER 1 1/2" C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, JOISTS - #11 BARS AND SMALLER . BEAMS, COLUMNS - TIES, STIRRUPS, SPIRALS . 1 1/2' 5. FORMS FOR CONCRETE SHALL BE LAID OUT AND CONSTRUCTED TO PROVIDE FOR THE REQUIRED CAMBERS/SLOPES. DO NOT REMOVE FORMS OR BRACING UNTIL CONCRETE HAS GAINED THE SPECIFIED 28 DAY STRENGTH OR SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT AND SUPERIMPOSED LOADS PER THE APPLICABLE PROVISIONS OF ACI 347. 6. MIXING, TRANSPORTING, AND PLACING OF CONCRETE SHALL CONFORM TO THE LATEST EDITION OF ACI 304R AND PROJECT SPECIFICATIONS. ALL CONCRETE SURFACES AGAINST WHICH CONCRETE IS TO BE PLACED SHALL BE THOROUGHLY CLEANED. LAITANCE AND STANDING WATER SHALL BE REMOVED. 7. CURE AND PROTECT CONCRETE IMMEDIATELY AFTER PLACEMENT IN ACCORDANCE WITH ACI 308, ACI 305, AND ACI 306. CURING COMPOUNDS USED ON CONCRETE THAT IS TO RECEIVE A RESILIENT TILE FINISH SHALL BE APPROVED BY THE TILE MANUFACTURER BEFORE USE. 8. WHERE INDICATED ON THE DRAWINGS, INTENTIONALLY ROUGHENED CONCRETE SHALL BE CLEAN AND FREE OF LAITANCE AND ROUGHENED TO A FULL AMPLITUDE OF 1/4". 9. GROUT SHALL BE NON-SHRINKABLE GROUT CONFORMING TO ASTM C1107 AND SHALL HAVE A SPECIFIED COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI. PRE GROUTING OF BASE PLATES WILL NOT BE

10. ALL REINFORCING BARS, WELDED WIRE FABRIC, ANCHOR BOLTS, EMBEDDED PLATES AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. PROVIDE STANDARD BAR CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN CONCRETE PROTECTION SPECIFIED "PULLING-UP" WELDED WIRE FABRIC WITH HOOKS DURING CONCRETE PLACEMENT IS NOT PERMITTED 11. REINFORCING STEEL FOR CONCRETE SHALL BE AS FOLLOWS: #3 TO #18 (NON-WELDABLE). GRADE 60, ASTM A615 .GRADE 60. ASTM A706 .GRADE 70. DEFORMED. ASTM A1064 WELDED WIRE REINFORCEMENT REINFORCING IN SHEAR WALLS, BOUNDARY ELEMENTS, PIERS, AND COUPLING BEAMS SHALL CONFORM TO A706 OR MEET THE REQUIREMENTS OF ACI 318-14 20.2.2.5 FOR DUCTILITY OF A615 GRADE 60. REINFORCING BARS SHALL NOT BE TACK WELDED, WELDED, HEATED, OR CUT UNLESS INDICATED ON THE CONTRACT

DOCUMENTS OR APPROVED BY THE STRUCTURAL ENGINEER. 12. WELDING REINFORCEMENT BARS, WHEN APPROVED BY THE STRUCTURAL ENGINEER, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STANDARD D1.4, LATEST EDITION. E70XX ELECTRODES SHALL BE USED IN WELDING A706 REINFORCING BARS TO STRUCTURAL STEEL 13. DETAILING OF CONCRETE REINFORCEMENT BARS AND ACCESSORIES SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST EDITION OF THE ACI 315 DETAILING MANUAL. 14. CONDUIT OR PIPE SIZE (OD) SHALL NOT EXCEED 30 PERCENT OF SLAB THICKNESS AND SHALL BE PLACED BETWEEN TOP AND BOTTOM REINFORCING, UNLESS SPECIFICALLY DETAILED OTHERWISE. CONCENTRATION OF CONDUITS OR PIPES SHALL BE AVOIDED EXCEPT WHERE DETAILED OPENINGS ARE 15. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING, CORING THROUGH CONCRETE IS NOT PERMITTED EXCEPT WHERE SHOWN. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS 16. FOR CONCRETE MIX REQUIREMENTS. SEE CONCRETE MIX DESIGN TABLE. ALTERNATIVE MIX DESIGNS ARE ACCEPTABLE PROVIDED IT IS STAMPED BY A REGISTERED PROFESSIONAL 17. SEE OTHER DISCIPLINE DRAWINGS FOR CONCRETE REQUIREMENTS FOR NON-STRUCTURAL EXTERIOR

| CONCRETE MIX DESIGN | | | | | |
|---|-----------|---|-------------------|--|--|
| APPLICATION | f'c (PSI) | EXPOSURE CATEGORY PER ACI 318 TABLE 19.3.1.1 | MAX W/CM RATIO | | |
| FOOTINGS, GRADE BEAMS, FND TIES, & EQUIPMENT PADS | 3,000 | F0 | N/A | | |
| SLAB ON GRADE (SEE NOTE G) | 3,500 | F0 | 0.5 | | |
| CONCRETE WALL/TILT | 4,000 | F0 | N/A | | |

A. CEMENT SHALL BE PORTLAND CEMENT TYPE I OR TYPE II AND CONFORM TO ASTM C150 OR BLENDED HYDRAULIC CEMENT TYPE IL AND CONFORM TO ASTM C595. SEE NOTE G FOR SLAB ON GRADE AND SLAB ON METAL DECK CEMENT.

B. AGGREGATE FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C330. MINIMUM COARSE AGGREGATE SIZE IS 1/2 INCH AND A MAXIMUM COARSE AGGREGATE SIZE PER ACI 318-14 SECTION 26.4.2.1(a)(4). USE AGGREGATES WITH A NOMINAL MAXIMUM SIZE OF 1 1/2" FOR SLABS ON GRADE.

2. ADMIXTURES TO BE INCLUDED IN MIX TEST DATA FOR APPROVAL. ADMIXTURES USED TO INCREASE THE WORKABILITY OF THE CONCRETE SHALL NOT BE CONSIDERED TO REDUCE THE SPECIFIED MINIMUM CEMENT CONTENT. CALCIUM CHLORIDE SHALL NOT BE USED. D. CONCRETE SLUMP SHALL BE 4 INCHES +/- 1 INCH. EXCEPTION: MIX DESIGNED WITH PLASTICISER OR WATER REDUCER. E. MAXIMUM WEIGHT OF NORMAL-WEIGHT CONCRETE SHALL BE 150 PCF AND MAXIMUM WEIGHT OF LIGHT-WEIGHT CONCRETE SHALL BE 115 PCF. F. FOR CONCRETE IN EXPOSURE CATEGORIES F1,F2, OR F3, AIR CONTENT SHALL MEET THE REQUIREMENTS OF ACI 318-14

G. ADDITIONAL REQUIREMENTS FOR SLAB-ON-GRADE AND CONCRETE OVER METAL DECK MIX: COARSENESS FACTOR OF 70% +/- 2%. TYPE II CEMENT WEIGHT OF 520LB MAX PER CUBIC YARD - 4" MAX SLUMP W/O ADMIXTURE. WITH AN ADMIXTURE, SLUMP MAY BE INCREASED PROVIDED THE STRENGTH AND SLUMP WITH THE ADMIXTURE IS INCLUDED IN TEST DATA.

SITE CAST TILT-UP CONCRETE WALL PANEL

- WHERE ALTERNATIVE MIX DESIGN IS DESIRED, SEE CONCRETE NOTE 16.

1. UNLESS NOTED OTHERWISE, PANELS SHOWN ON DRAWINGS ARE TO BE PRE CAST ON SITE, TILT-UP CONCRETE WALL PANELS. SEE GENERAL NOTES SECTIONS: "CONCRETE" AND "STRUCTURAL STEEL" FOR CONCRETE, REINFORCEMENT BARS, AND EMBEDDED PLATE SPECIFICATIONS 3. THE CENTERLINE OF SINGLE MAT STEEL SHALL COINCIDE WITH THE CENTERLINE OF THE STRUCTURAL THICKNESS OF THE PANEL. PANELS WITH TWO LAYERS OF MAT STEEL SHALL HAVE A MAT 1-1/2" CLEAR ON THE OUTSIDE FACE AND 1" CLEAR ON THE INSIDE FACE U.O.N. SEE PANEL ELEVATIONS FOR ADDITIONAL REINFORCEMENT REQUIREMENTS. 4. PROVIDE (2) #5 CONTINUOUS AT THE TOP, BOTTOM AND SIDES OF EACH PANEL AND AT THE HEAD, JAMBS AND SILL OF EACH OPENING AND EACH FUTURE KNOCKOUT OPENING IN THE PANEL. SEE DRAWINGS FOR ADDITIONAL REINFORCEMENT. 5. THE GENERAL CONTRACTOR SHALL REVIEW AND VERIFY ALL PANEL DIMENSIONS, OPENINGS, BEAM AND JOIST POCKET LOCATIONS, WELD PLATE LOCATIONS AND REPORT ANY DISCREPANCIES TO THE STRUCTURAL ENGINEER PRIOR TO CASTING PANELS. 6. EXPOSED EDGES OF PANELS SHALL BE CHAMFERED, EXCEPT AT THE INSIDE FACE OF OVERHEAD DOORS. 7. SEE ARCHITECTURAL DRAWINGS FOR PANEL FINISHES, REVEALS, CHAMFERS, ETC 8. THE PANELS HAVE BEEN DESIGNED FOR THE IN-SERVICE CONDITIONS ONLY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE PANEL LIFTING DESIGN AND METHOD. 9. LIFTING INSERTS VISIBLE AFTER FINAL CONSTRUCTION SHALL BE PATCHED AND FINISHED TO MEET THE ARCHITECT'S APPROVAL. 10. TEMPORARY BRACING OF PANELS SHALL NOT BE REMOVED UNTIL AFTER THE PERMANENT STRUCTURE HAS BEEN COMPLETED

11. SET UNITS DRY, WITHOUT GROUT, ATTAINING JOINT DIMENSIONS WITH SHIMS. PROVIDE SUFFICIENT SHIMS TO PREVENT SETTLEMENT, ROTATION, OR DAMAGE TO THE FOOTINGS, GROUT PACK BASE OF UNIT WITH NON-SHRINKABLE GROUT CONFORMING TO ASTM C1107 WITH A COMPRESSIVE STRENGTH AT 28 DAYS OF

STRUCTURAL WOOD 1. THE QUALITY OF ALL WOOD MEMBERS AND THEIR FASTENINGS SHALL CONFORM TO CHAPTER 23 OF THE IBC. 2. ALL FRAMING MEMBERS AND PLYWOOD SHALL CONFORM TO THE FOLLOWING SPECIFIED TABLES, UNLESS NOTED OTHERWISE DF-L PORTION OF TABLE 4A & 4B (NDS)Q FRAMING MEMBERS TABLE 3 (APA PDS 3. ALL STRUCTURAL SHEATHING SHALL BE FABRICATED WITH EXTERIOR GLUE CONFORMING TO U.S. PRODUCTS STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL SHEATHING. 4. ALL FRAMING MEMBERS AND SHEATHING SHALL BE GRADE MARKED 5. FRAMING MEMBERS SHALL CONFORM TO THE FOLLOWING GRADES UNO ON PLANS:

DF-L. STUD OR BETTER DF-L, #2 OR BETTER DF-L, #2 OR BETTER 6. IBC TABLE 2304.10.1, NAILING SCHEDULE, SHALL GOVERN UNLESS MORE RESTRICTIVE NAILING IS INDICATED ON THE PLANS OR DETAILS. 7. WHERE LEDGER, SILL PLATES, POSTS, OR STUDS ARE BEARING DIRECTLY ON CONCRETE OR MASONRY, PROVIDE GRACE VYCOR PLUS BARRIER BETWEEN WOOD MEMBERS AND CONCRETE OR MASONRY 8. BOLT HOLES IN WOOD SHALL BE 1/32" TO 1/16" LARGER THAN THE BOLT. DEPENDING ON BOLT SIZE. 9. BOLT HOLES SHALL NOT BE LESS THAN 7x DIA. FROM THE END AND 4x DIA. FROM THE EDGE OF THE MEMBER, UNLESS NOTED OTHERWISE. 10. BOLTS USED IN WOOD SHALL BE A307.

11. PRE-DRILL NAIL HOLES WHERE NECESSARY TO PREVENT SPLITTING. 12. EACH GLU-LAMINATED MEMBER SHALL BE STAMPED WITH AN IDENTIFYING NUMBER AND SHALL BE ACCOMPANIED BY A CERTIFICATE OF INSPECTION CERTIFYING THAT THE MEMBERS MEET THE IBC REQUIREMENTS. SUCH CERTIFICATES MUST BE MADE BY AN APROVED AGENCY OF THE A.P.A. 13. GLU-LAMINATED MEMBERS SHALL BE A COMBINATION OF 24F-1.8E-V4 (DF-L) INDUSTRIAL GRADE, AND EXTERIOR GLUE, UNLESS NOTED OTHERWISE ON PLAN.

14. GLU-LAMINATEDS COLUMNS SHALL BE 2-DF-L2 (DF-L). 15. ALL SUSPENDED LOADS FROM SUBPURLINS ARE PROHIBITED WITHOUT PRIOR APPROVAL FROM ENGINEER. 16. ALL HANGERS, POST CAPS AND BASES ARE BY SIMPSON OR APPROVED EQUIVALENT. PROVIDE SIMPSON (OR APPROVED EQUIVALENT) HANGERS FOR BEAMS, JOISTS, POST BASES AND CAPS FOR COLUMNS UNLESS NOTED ON PLANS AND DETAILS. 17. WHERE DIAPHRAGM AND SHEARWALL SHEATHING NAILING IS LESS THAN 3" ON CENTER USE 3x FRAMING AND STAGGER NAILING PER SHEET **S0.10 U.O.N**. ALL DIAPHRAM AND SHEAR WALL PANEL EDGES TO BE BLOCKED 18. ALL WOOD STRUCTURAL/BEARING WALLS SHALL HAVE FOUNDATION/SILL ANCHORAGE MEETING THE MINIMUM REQUIREMENTS OF IBC SECTION 2308 U.N.O. BUT NOT LESS THAN 1/2" Ø ANCHOR BOLTS @ 6'-0" O.C. MAX WITH A MINIMUM OF (2) PER WALL SEGMENT AND MINIMUM 6" EMBEDMENT.

LIGHT GAGE STEEL FRAMING

- 1. LIGHT-GAGE STEEL SHALL CONFORM TO: A. ASTM A 653 SS GRADE 50, CLASS 1 OR CLASS 3 (Fy = 50 KSI) FOR 0.0566 INCH THROUGH 0.1017 INCH THICKNESS.
- B. ASTM A 653 SS GRADE 33 (Fy = 33 KSI) FOR 0.0180 INCH THROUGH (2. ALL FABRICATION, ERECTION, AND IDENTIFICATION OF LIGHT-GAGE ST IBC SECTIONS 2209 AND 2210 AND AISI SPECIFICATIONS. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS
- FASTENING DEVICES AND OTHER ACCESSORIES REQUIRED FOR A CO 4. INSTALL BRIDGING/BLOCKING IN LIGHT-GAGE STEEL STUD WALLS IN A MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN IN THE DRAW
- 5. WELD LIGHT-GAGE STEEL FRAMING CONNECTIONS, EXCEPT WHERE S SPECIFIED. 6. WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL
- UNDER AWS SPECIFICATIONS. 7. DESIGNATIONS OF COLD-FORMED, LIGHT-GAGE STEEL SHAPES REFE EVALUATION REPORT ESR-3064P OF THE METAL STUD MANUFACTURE
- SHEET METAL SCREWS SHALL BE OF THE MAKE SPECIFIED IN THE DRA MAKE IS GIVEN, SHALL BE RATED BY THEIR MANUFACTURER AS POSS SHEAR AND TENSION AT LEAST EQUAL TO THOSE PUBLISHED IN ICBO THE METAL STUD MANUFACTURERS' ASSOCIATION FOR THE SCREW S 9. FOR EXTERIOR STUDS SEE DETAILS AT PERIMETER. FOR NON-BEARIN 10. SHEET METAL SCREWS SHALL HAVE A MINIMUM CENTER-OF-SCREW T TIMES THE NOMINAL DIAMETER OF THE SCREW. WHERE MULTIPLE FAS

- 1. ALL W-SECTION SHAPES SHALL CONFORM TO ASTM A992. CHANNEL SH CONFORM TO ASTM A36. (UNLESS OTHERWISE NOTED ON THE DWG). 2. STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B (Fy STEEL PIPE SHALL BE SUBMITTED FOR APPROVAL. 3. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRA
- 46 KSI ROUND). 4. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR 36, UNLESS NOTE 5. STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL C AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" WITH AMEN STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" WITH AMEN 6. BUCKLING-RESTRAINED BRACED FRAMES SHALL CONFORM TO THE RE PROVISIONS FOR STRUCTURAL STEEL BUILDINGS AS WELL AS THE DES
- DRAWINGS. STRUCTURAL CALCULATIONS AND DETAILS FOR THE BRB (A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT SUBMITTING TO JURISDICTION FOR REVIEW AND PERMITTING. 7. BOLTS 3/4"Ø AND GREATER TO BE ASTM A325 OR ASTM F1852, TYPE 1 (WITH THREADS INCLUDED IN SHEAR PLANE, INSTALLED PER SECTION 8 CRITICAL ON THE DRAWING MINIMUM PRETENSION AS STATED IN TABLE OF THE RCSC SPECIFICATION. FOR STRUCTURAL JOINTS USING HIGH-S BOLTS OR ASTM F2280 TWIST-OFF TENSION CONTROL BOLTS WHERE A INDICATED ON PLANS OR DETAILS. BOLTS NOTED AS TYPE SC (SLIP-CRI AS SLIP-CRITICAL WITH FAYING SURFACES PREPARED AS CLASS A SUR THAN 3/4"Ø USE A307. FOR BOLTS NOT INDICATED AS SLIP CRITICAL SNI ACCEPTABLE
- 8. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENG SPLICE AND CONNECTION TO BE MADE. 9. HEADED SHEAR CONNECTORS STUDS ON COMPOSITE STEEL BEAMS SI DO NOT USE MORE THAN ONE STUD PER RIB WHERE THE NUMBER OF EQUAL TO THE NUMBER OF RIBS AVAILABLE. PLACE A MINIMUM OF ONE BEAM. PLACE ADDED STUDS IN EACH RIB BEGINNING AT THE SUPPORT SPAN UNTIL REQUIRED NUMBER OF STUDS IS SUPPLIED. FOR MULTIPLI LONGITUDINAL AXIS OF THE BEAM. THE MINIMUM STUD SPACING TO BE THE FLANGE EDGE. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO T
- STUDS.PROVIDE STUDS AT 12" O.C. IF NOT SHOWN ON PLAN. 10. HEADED CONCRETE ANCHORS SHALL BE NELSON HEADED CONCRETE AND SHALL CONFORM TO ASTM A1064. ANCHORS SHALL BE AUTOMATIC STUD WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING S RECOMMENDATIONS OF THE NELSON STUD WELDING COMPANY. 11. DEFORMED BAR ANCHORS (DBA) SHALL BE NELSON DEFORMED BAR A SHALL BE MADE FROM LOW CARBON STEEL CONFORMING TO ASTM A49
- AUTOMATICALLY END- WELDED WITH SUITABLE WELDING EQUIPMENT SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NEL 12. WELDS USED IN MEMBERS & CONNECTIONS DESIGNATED IN THE DRAW SYSTEM (SFRS) SHALL BE MADE WITH FILLER METALS MEETING THE RE (AISC341-10 SECTIONS A3.4a&b). WELDS USED IN MEMBERS & CONNEC AS DEMAND CRITICAL (DC) SHALL BE MADE WITH FILLER METALS MEET SECTION 6.3, INCLUDING SUB-CLAUSES 6.3.5, 6.3.6, 6.3.7, & 6.3.8 13. SUBMIT A WELDING PROCEDURE IN ACCORDANCE WITH LATEST EDITIO
- FOR MEMBERS DESIGNATED PART OF THE SFRS OR LABELED DEMAND SHALL CONFORM TO AWS D1.8 AND MANUFACTURER'S RECOMMENDAT APPROVED PROCEDURES TO BE SUBMITTED TO SPECIAL INSPECTOR THE ENGINEER FOR REVIEW. 14. WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL B
- SPECIFICATIONS. E70xx ELECTRODES SHALL BE USED FOR ALL WELDS 15. SEE FRAME ELEVATIONS FOR LOCATION OF PROTECTED ZONES FOR L CONNECTIONS OR ATTACHMENTS ARE PERMITTED WITHIN PROTECTED 16. LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST) SHALL BE 50° F F STRUCTURES & 0° F FOR OUTDOOR/UNCONDITIONED STRUCTURES

. POST-INSTALLED ANCHOR SYSTEMS SHALL COMPLY WITH THE LATEST CRITERIA AND HAVE A VALID ICC-ES REPORT (OR APPROVED EQUIVALE APPLICABLE BUILDING CODE. UNLESS OTHERWISE NOTED ON THE DRAWINGS USE ANCHORS LISTED EXPANSION ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLO HILTI HSL-3 CARBON STEEL HEAVY DUTY EXPANSION ANCHOR (HILTI HDA CARBON AND STAINLESS STEEL UNDERCUT ANCHOR HILTI KWIK BOLT TZ CARBON AND STAINLESS STEEL ANCHORS (DeWALT POWER-STUD+SD2 ANCHOR (ICC-ES REPORT ESR-2502 SIMPSON STRONG-TIE STRONG-BOLT 2 ANCHOR (ICC-ES REPOF ADHESIVE ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLOW HILTI HIT-RE 500 V3 ADHESIVE ANCHOR (ICC-ES REPORT ESR-38 HILTI HIT-HY 200 ADHESIVE ANCHOR (ICC-ES REPORT ESR-3187) DeWALT PURE 110+ EPOXY ADHESIVE ANCHOR (ICC-ES REPORT DeWALT AC200+ ADHESIVE ANCHOR (ICC-ES REPORT ESR-4027) SIMPSON STRONG-TIE SET-XP EPOXY ADHESIVE ANCHOR (ICC- SIMPSON STRONG-TIE AT-XP EPOXY ADHESIVE ANCHOR (IAPMC SCREW ANCHORS IN CONCRETE SHALL BE ONE OF THE FOLLOWING DeWALT SCREW-BOLT+ SCREW ANCHOR (ICC-ES REPORT ESR- HILTI KWIK HUS-EZ SCREW ANCHOR (ICC-ES REPORT ESR-3027) SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR (ICC-ES REPO ANCHORS IN CONCRETE OVER STEEL DECK SHALL BE ONE OF THE HILTI KWIK BOLT TZ CARBON AND STAINLESS STEEL ANCHORS (HILTI HIT-RE 500 V3 ADHESIVE ANCHORS (ICC-ES REPORT ESR-3) DeWALT POWER-STUD+SD2 EXPANSION ANCHOR (ICC-ES REPOI DeWALT POWER-STUD+SD1 EXPANSION ANCHOR (ISS-ES REPORT DeWALT SCREW-BOLT+ SCREW ANCHOR (ICC-ES REPORT ESR) SIMPSON STRONG-TIE STRONG-BOLT 2 WEDGE ANCHOR (ICC-ES REPORT ESR-3037) SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR (ICC-ES REPORT ESR-2713) EXPANSION ANCHORS IN MASONRY SHALL BE ONE OF THE FOLLOWING: HILTI KWIK BOLT 3 (KB3) ANCHORS (ICC-ES ESR-1385) DeWALT POWER-STUD+SD1 (ICC-ES ESR-2966) SIMPSON STRONG-TIE WEDGE-ALL ANCHOR (ICC-ES REPORT ESR-1396) SIMPSON STRONG-TIE STRONG-BOLT 2 WEDGE ANCHOR (IAPMO UES ER-240) ADHESIVE ANCHORS IN MASONRY SHALL BE ONE OF THE FOLLOWING: HILTI HIT-HY 270 ADHESIVE ANCHOR (ICC-ES REPORT ESR 4143 & 4144) DeWALT AC100+ GOLD ADHESIVE ANCHOR (ICC-ES REPORT ESR-3200 FOR CMU & ICC-ES REPORT ESR-4105 FOR UNREINFORCED MASONRY) SIMPSON STRONG-TIE SET-XP EPOXY ADHESIVE ANCHOR (IAPMO UES ER-265) • SIMPSON STRONG-TIE AT-XP EPOXY ADHESIVE ANCHOR (IAPMO UES ER-281) SCREW ANCHORS IN MASONRY SHALL BE ONE OF THE FOLLOWING: HILTI KWIK HUS-EZ SCREW ANCHOR (ICC-ES REPORT ESR-3056 DeWALT SCREW-BOLT+ SCREW ANCHOR (ICC-ES REPORT ESR-4042) SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR (ICC-ES REPORT ESR-1056) ANCHORS INSTALLED IN THE BOTTOM OF CONCRETE OVER STEEL DECK SHALL BE INSTALLED IN THE BOTTOM FLUTE ONLY 4. ANCHORS ARE NOT TO BE INSTALLED UNTIL CONCRETE HAS REACHED ITS DESIGN STRENGTH. 5. FOR ANCHOR EMBEDMENT, SEE DRAWINGS OR TYPICAL DETAIL. USE EMBEDMENT RECOMMENDED BY MANUFACTURER WHERE NO EMBEDMENT IS SHOWN. 6. MANUFACTURER'S INSTALLATION TRAINING AND CERTIFICATION IS REQUIRED ON ALL POST-INSTALLED ANCHORS FOR ANCHOR INSTALLER.

POST INSTALLED ANCHORS WITHOUT PRIOR APPROVAL FROM A&E.

7. CONTRACTOR COORDINATE ANCHOR AND REINFORCING LOCATION. IT IS UNACCEPTABLE TO CUT REBAR FOR

| THICKNESS. | H THROUGH 0.1017 INCH |
|--|--|
| B. ASTM A 653 SS GRADE 33 (Fy = 33 KSI) FOR 0.0180 INCH THROUGH 0.0451 INC 2. ALL FABRICATION, ERECTION, AND IDENTIFICATION OF LIGHT-GAGE STEEL FRAME | |
| IBC SECTIONS 2209 AND 2210 AND AISI SPECIFICATIONS.3. PROVIDE ALL ACCESSORIES INCLUDING, BUT NOT LIMITED TO, TRACKS, CLIPS, 1 | |
| FASTENING DEVICES AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE A 4. INSTALL BRIDGING/BLOCKING IN LIGHT-GAGE STEEL STUD WALLS IN ACCORDAN | AND PROPER INSTALLATION. |
| MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN IN THE DRAWINGS. 5. WELD LIGHT-GAGE STEEL FRAMING CONNECTIONS, EXCEPT WHERE SELF- DRI | |
| SPECIFIED. | |
| 6. WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTI UNDER AWS SPECIFICATIONS. | |
| DESIGNATIONS OF COLD-FORMED, LIGHT-GAGE STEEL SHAPES REFER TO THO EVALUATION REPORT ESR-3064P OF THE METAL STUD MANUFACTURERS' ASSC | CIATION. |
| SHEET METAL SCREWS SHALL BE OF THE MAKE SPECIFIED IN THE DRAWINGS (MAKE IS GIVEN, SHALL BE RATED BY THEIR MANUFACTURER AS POSSESSING D | |
| SHEAR AND TENSION AT LEAST EQUAL TO THOSE PUBLISHED IN ICBO EVALUAT THE METAL STUD MANUFACTURERS' ASSOCIATION FOR THE SCREW SIZE SPEC | ION REPORT NO. 4943 OF |
| FOR EXTERIOR STUDS SEE DETAILS AT PERIMETER. FOR NON-BEARING INTERI 10. SHEET METAL SCREWS SHALL HAVE A MINIMUM CENTER-OF-SCREW TO EDGE- | OR STUDS SEE ARCH. |
| TIMES THE NOMINAL DIAMETER OF THE SCREW. WHERE MULTIPLE FASTENERS | ARE USED IN A |
| CONNECTION, THE MINIMUM CENTER-TO-CENTER SPACING OF SCREWS SHALL DIAMETER OF THE SCREW. | BE 3 TIMES THE NOMINAL |
| | |
| STRUCTURAL STEEL | |
| 1. ALL W-SECTION SHAPES SHALL CONFORM TO ASTM A992. CHANNEL SHAPES, AN CONFORM TO ASTM A36. (UNLESS OTHERWISE NOTED ON THE DWG). | GLES, AND PLATES SHALL |
| STRUCTURAL STEEL PIPE SHALL CONFORM TO ASTM A53, GRADE B (Fy = 35 KSI). STEEL PIPE SHALL BE SUBMITTED FOR APPROVAL. | MILL TEST REPORTS FOR |
| 3. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO ASTM A500, GRADE C (Fy | = 50 KSI RECTANGULAR, Fy = |
| 46 KSI ROUND).4. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GR 36, UNLESS NOTED OTHER | |
| STRUCTURAL STEEL DETAILING, FABRICATION AND ERECTION SHALL CONFORM AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" WITH AMENDMENTS. | |
| STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES" WITH AMENDMENTS 6. BUCKLING-RESTRAINED BRACED FRAMES SHALL CONFORM TO THE REQUIREME | i. |
| PROVISIONS FOR STRUCTURAL STEEL BUILDINGS AS WELL AS THE DESIGN PARA | AMETERS SET FORTH IN THE |
| DRAWINGS. STRUCTURAL CALCULATIONS AND DETAILS FOR THE BRB CONNECT A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECTS TO ARC SUBMITTING TO JUDISDICTION FOR DEVIEW AND DERMITTING | |
| SUBMITTING TO JURISDICTION FOR REVIEW AND PERMITTING. 7. BOLTS 3/4"Ø AND GREATER TO BE ASTM A325 OR ASTM F1852, TYPE 1 (TWIST - O | |
| WITH THREADS INCLUDED IN SHEAR PLANE, INSTALLED PER SECTION 8. FOR BO CRITICAL ON THE DRAWING MINIMUM PRETENSION AS STATED IN TABLE 8.1 AND | |
| OF THE RCSC SPECIFICATION. FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS OR ASTM F2280 TWIST-OFF TENSION CONTROL BOLTS WHERE ASTM A106 | BOLTS. PROVIDE ASTM A490 |
| INDICATED ON PLANS OR DETAILS. BOLTS NOTED AS TYPE SC (SLIP-CRITICAL) IN AS SLIP-CRITICAL WITH FAYING SURFACES PREPARED AS CLASS A SURFACE PEI | DETAILS SHALL BE INSTALLED |
| THAN 3/4"Ø USE A307. FOR BOLTS NOT INDICATED AS SLIP CRITICAL SNUG TIGHT | |
| ACCEPTABLE. 8. SPLICING OF STRUCTURAL STEEL MEMBERS WHERE NOT DETAILED ON THE COM | |
| PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER A SPLICE AND CONNECTION TO BE MADE. | |
| 9. HEADED SHEAR CONNECTORS STUDS ON COMPOSITE STEEL BEAMS SHALL BE DO NOT USE MORE THAN ONE STUD PER RIB WHERE THE NUMBER OF STUDS R | |
| EQUAL TO THE NUMBER OF RIBS AVAILABLE. PLACE A MINIMUM OF ONE STUD PE BEAM. PLACE ADDED STUDS IN EACH RIB BEGINNING AT THE SUPPORTS AND MO | |
| SPAN UNTIL REQUIRED NUMBER OF STUDS IS SUPPLIED. FOR MULTIPLE STUDS LONGITUDINAL AXIS OF THE BEAM. THE MINIMUM STUD SPACING TO BE 3" OC AN | TRANSVERSE TO THE |
| THE FLANGE EDGE. SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO THE INSTA | |
| STUDS.PROVIDE STUDS AT 12" O.C. IF NOT SHOWN ON PLAN. 10. HEADED CONCRETE ANCHORS SHALL BE NELSON HEADED CONCRETE ANCHOR | |
| AND SHALL CONFORM TO ASTM A1064. ANCHORS SHALL BE AUTOMATICALLY EN STUD WELDING EQUIPMENT IN THE SHOP OR IN THE FIELD. WELDING SHALL BE | |
| RECOMMENDATIONS OF THE NELSON STUD WELDING COMPANY. 11. DEFORMED BAR ANCHORS (DBA) SHALL BE NELSON DEFORMED BAR ANCHORS | |
| SHALL BE MADE FROM LOW CARBON STEEL CONFORMING TO ASTM A496. ANCH AUTOMATICALLY END- WELDED WITH SUITABLE WELDING EQUIPMENT IN THE SH | ORS SHALL BE |
| SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE NELSON STU | D WELDING COMPANY. |
| 12. WELDS USED IN MEMBERS & CONNECTIONS DESIGNATED IN THE DRAWINGS AS SYSTEM (SFRS) SHALL BE MADE WITH FILLER METALS MEETING THE REQUIREME | NTS IN AWS D1.8 SECTION 6.3 |
| (AISC341-10 SECTIONS A3.4a&b). WELDS USED IN MEMBERS & CONNECTIONS DE AS DEMAND CRITICAL (DC) SHALL BE MADE WITH FILLER METALS MEETING THE F | |
| SECTION 6.3, INCLUDING SUB-CLAUSES 6.3.5, 6.3.6, 6.3.7, & 6.3.8 13. SUBMIT A WELDING PROCEDURE IN ACCORDANCE WITH LATEST EDITION OF AW | S D1.1. WHERE WELDS ARE |
| FOR MEMBERS DESIGNATED PART OF THE SFRS OR LABELED DEMAND CRITICAL SHALL CONFORM TO AWS D1.8 AND MANUFACTURER'S RECOMMENDATIONS (WH | , WELDING PROCEDURES |
| APPROVED PROCEDURES TO BE SUBMITTED TO SPECIAL INSPECTOR FOR REVI | |
| | EW AND APPROVAL THEN TO |
| THE ENGINEER FOR REVIEW. 14. WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTIF | |
| WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTIF SPECIFICATIONS. E70xx ELECTRODES SHALL BE USED FOR ALL WELDS. SEE FRAME ELEVATIONS FOR LOCATION OF PROTECTED ZONES FOR LATERAL F | IED UNDER AWS |
| 14. WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTIF SPECIFICATIONS. E70xx ELECTRODES SHALL BE USED FOR ALL WELDS. | IED UNDER AWS ESISTIVE FRAMES. NO |
| WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTIF SPECIFICATIONS. E70xx ELECTRODES SHALL BE USED FOR ALL WELDS. SEE FRAME ELEVATIONS FOR LOCATION OF PROTECTED ZONES FOR LATERAL F CONNECTIONS OR ATTACHMENTS ARE PERMITTED WITHIN PROTECTED ZONES. LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST) SHALL BE 50° F FOR INDO STRUCTURES & 0° F FOR OUTDOOR/UNCONDITIONED STRUCTURES | ESISTIVE FRAMES. NO |
| WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTIF SPECIFICATIONS. E70xx ELECTRODES SHALL BE USED FOR ALL WELDS. SEE FRAME ELEVATIONS FOR LOCATION OF PROTECTED ZONES FOR LATERAL F CONNECTIONS OR ATTACHMENTS ARE PERMITTED WITHIN PROTECTED ZONES. LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST) SHALL BE 50° F FOR INDOCUMENTAL STATEMENTS AND AND AND AND AND AND AND AND AND AND | ED UNDER AWS ESISTIVE FRAMES. NO OOR CONDITIONED |
| WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTIF SPECIFICATIONS. E70xx ELECTRODES SHALL BE USED FOR ALL WELDS. SEE FRAME ELEVATIONS FOR LOCATION OF PROTECTED ZONES FOR LATERAL F CONNECTIONS OR ATTACHMENTS ARE PERMITTED WITHIN PROTECTED ZONES. LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST) SHALL BE 50° F FOR INDO STRUCTURES & 0° F FOR OUTDOOR/UNCONDITIONED STRUCTURES ALL EXTERIOR STEEL TO BE GALVANIZED. PLUG GALV HOLES w/ ALUMINUM PLUC | ED UNDER AWS ESISTIVE FRAMES. NO OOR CONDITIONED |
| WELDS SHALL CONFORM TO AWS SPECIFICATIONS. WELDERS SHALL BE CERTIF SPECIFICATIONS. E70xx ELECTRODES SHALL BE USED FOR ALL WELDS. SEE FRAME ELEVATIONS FOR LOCATION OF PROTECTED ZONES FOR LATERAL F CONNECTIONS OR ATTACHMENTS ARE PERMITTED WITHIN PROTECTED ZONES. LOWEST ANTICIPATED SERVICE TEMPERATURE (LAST) SHALL BE 50° F FOR INDO STRUCTURES & 0° F FOR OUTDOOR/UNCONDITIONED STRUCTURES ALL EXTERIOR STEEL TO BE GALVANIZED. PLUG GALV HOLES w/ ALUMINUM PLUC | TIED UNDER AWS DESISTIVE FRAMES. NO DOR CONDITIONED DOS. |
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| UES ER-263) G: 3889) |
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| RT ESR-2713) FOLLOWING: ICC-ES REPORT ESR-1917) 814) RT ESR-2502) RT ESR-2818) 3889) |

| | | FRFOI | JENCY | |
|---|---|--------------|--------------|--|
| | | CONTINUOUS | PERIODIC | - |
| | | | PER | |
| MATERIAL | TASK GRADING, EXCAVATING, & FILL | INSP | - | RESPONSIBLE FIRMGEOTECH OF RECOR |
| EARTHWORK | FILL MATERIAL | - | TEST | GEOTECH OF RECOR |
| | SOIL COMPACTION REINFORCING STEEL, INCLUDING PRESTRESSING STEEL, AND | - | TEST INSP | GEOTECH OF RECOR |
| | USE OF REQUIRED CONCRETE DESIGN MIX | - | INSP | SPECIAL INSPECTOR |
| | SHAPE, LOCATION, & DIMENSIONS OF CONCRETE MEMBER | - | INSP | SPECIAL INSPECTOR |
| CAST-IN-PLACE CONCRETE | BOLTS INSTALLED IN CONCRETE | INSP | - | SPECIAL INSPECTOR |
| | REINFORCED CONCRETE PLACEMENT | INSP | - | SPECIAL INSPECTOR |
| | ADHESIVE ANCHORS | INSP | - | SPECIAL INSPECTOR |
| | EXPANSION ANCHORS | - | INSP | SPECIAL INSPECTOR |
| | SPECIFIED CURING TECHNIQUES | - | INSP | SPECIAL INSPECTOR |
| | CONCRETE MATERIALS | - | TEST | TESTING LAB |
| | | - | - | NOTE 1 |
| | SHOP WELDING STEEL FRAME FOR CONFORMANCE WITH CONSTRUCTION DOCUMENTS | - | - INSP | NOTE 1 SPECIAL INSPECTOR |
| | FIELD WELDED CONNECTIONS | | | |
| | SINGLE-PASS FILLET WELDS EQUAL TO OR LESS THAN 5/16" | - | INSP | SPECIAL INSPECTOR |
| | SINGLE-PASS FILLET WELDS GREATER THAN 5/16" | INSP | - | SPECIAL INSPECTOR |
| | MULTI-PASS FILLET WELDS PJP GROOVE WELDS | INSP INSP | - | SPECIAL INSPECTOR |
| STRUCTURAL STEEL, TEEL DECK, & PRECAST | | - | INSP | SPECIAL INSPECTOR |
| CONCRETE | GROOVE DURING WELDS | INSP | - | TESTING LAB |
| | AFTER DECK WELDS | - | TEST INSP | TESTING LAB SPECIAL INSPECTOR |
| | WELDING OF REINFORCING | - INSP | | NOTE 2 |
| | STEEL | - | TEST | SPECIAL INSPECTOR |
| | HEADED STUDS | - | TEST | SPECIAL INSPECTOR |
| | HIGH-STRENGTH BOLT | - | INSP | SPECIAL INSPECTOR |
| | INSTALLATION (BEARING TYPE) | - | TEST | |
| | HIGH-STRENGTH BOLT INSTALLATION (SLIP-CRITICAL) | - | INSP TEST | SPECIAL INSPECTOR TESTING LAB |
| | ERECTION OF PRECAST CONCRETE | _ | INSP | SPECIAL INSPECTOR |
| | MEMBERS ALL SUB-PURLIN HANGERS | | INSP | SPECIAL INSPECTOR |
| | LATERAL FORCE RESISTING MEMBER | - 85 | INSP | SPECIAL INSPECTOR |
| | NAILING ≤ 4" OC & STRAPPING OF SHEARWALLS, DIAPHRAGMS, & TOP CHORDS | - | INSP | SPECIAL INSPECTOR |
| STRUCTURAL WOOD FRAMING | NAILING, BOLTING, ANCHORING, & FASTENING OF OTHER ELEMENTS | - | INSP | SPECIAL INSPECTOR |
| | GANG NAIL TRUSSES W/ SPAN > 60': MEMBER RESTRAINT | - | INSP | SPECIAL INSPECTOR |
| | BRACING INSTALLATION | _ | INSP | SPECIAL INSPECTOR |
| | GROUT SPACE PREPARATION | _ | INSP | SPECIAL INSPECTOR |
| | TYPE, SIZE, & LOCATION OF REINF & | | INSP | |
| | ANCHORAGES | - | INSP | SPECIAL INSPECTOR |
| TRUCTURAL MASONRY | PLACEMENT OF GROUT | INSP | - | SPECIAL INSPECTOR |
| | PROCEDURES | - | INSP | SPECIAL INSPECTOR |
| | MORTAR & GROUT PROPORTIONS | - | INSP | SPECIAL INSPECTOR |
| | PRISMS | - | INSP | SPECIAL INSPECTOR |
| | FIELD WELDED CONNECTIONS ADHESIVE ANCHORS | - INSP | INSP | SPECIAL INSPECTOR SPECIAL INSPECTOR |
| | EXPANSION ANCHORS | - | - INSP | SPECIAL INSPECTOR |
| | SCREWS | - | INSP | SPECIAL INSPECTOR |
| | FIELD WELDED CONNECTIONS LATERAL FORCE RESISTING MEMBER | - 85 | INSP | SPECIAL INSPECTOR |
| COLD-FORMED STEEL FRAMING | FASTENING < 4" OC & STRAPPING OF SHEARWALLS, DIAPHRAGMS, & TOP CHORDS | - | INSP | SPECIAL INSPECTOR |
| | BOLTING, ANCHORING, & FASTENING OF OTHER ELEMENTS | - | INSP | SPECIAL INSPECTOR |
| | ADHESIVE ANCHORS | INSP | - | SPECIAL INSPECTOR |
| METAL FABRICATIONS, ETAL STAIRS, RAILINGS, | EXPANSION ANCHORS | - | INSP | SPECIAL INSPECTOR |
| & HANDRAILS | CONCRETE PLACEMENT CONCRETE MATERIALS | - | INSP TEST | SPECIAL INSPECTOR TESTING LAB |
| SPRAYED FIRE-RESISTIVE | SPRAYED FIRE-RESISTIVE MATERIALS | _ | TEST | TESTING LAB |

WABO Certified inspectors meet screening requirements of

SPECIAL INSPECTION the IBC for the City of Puyallup.

SPECIAL INSPECTION OF SHOP FABRICATION AND SHOP WELDING SHALL MATCH THE REQUIREMENTS FOR FIELD FABRICATION AND FIELD WELDING UNLESS SHOP CERTIFICATION DOCUMENTS ARE REVIEWED AND ACCEPTED BY THE OWNER. IF APPROVED BY THE OWNER. SPECIAL INSPECTION OF SHOP FABRICATION AND SHOP WELDING SHALL NOT BE REQUIRED FOR CERTIFIED FABRICATORS AS REQUIRED BY THE STRUCTURAL STEEL SECTION OF THE GENERAL STRUCTURAL NOTES.

CONTINUOUS INSPECTION REQUIRED FOR WELDING OF REINFORCING STEEL RESISTING FLEXURAL & AXIAL FORCES IN INTERMEDIATE & SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL STRUCTURAL WALL OF CONCRETE, & SHEAR REINFORCEMENT. PERIODIC INSPECTION IS ACCEPTABLE FOR WELDING OF OTHER REINFORCING STEEL.

| AF AIS | |
|---|---|
| | PROX CH |
| BL BM BN BC BP BR | DG KG 1 DT / BOTT |
| CF CIF CJ | C |
| | R 1U |
| DF DI/ | SL S T / DTL L A / Ø APH M |
| EL EN EC ES EV EX | F EC / ELECT EV I IGR 2 / / / / / / / / / / / (E) / / JT / EJ |
| F/ FB FH FIN FL FN FC FS FT | S N R D W |
| GA GA GL GL | LV |
| HC HD HG HC | CM PR |
| HV | VS |
| IBC ID IF INF INF INF | / ISF FO SP |
| ST | RUCTUR |

ABBREVIATIONS

I. FOUNDATION 2. WOOD DIAPHRA

3. TILT PANELS

AND NEW AT ANCHOR BOLTS AMERICAN CONCRETE INSTITUTE ADDITIONAL ARCHITECTURALLY EXPOSED STRUCTURAL STEEL ABOVE FINISHED FLOOR AMERICAN INSTITUTE OF STEEL CONSTRUCTION ALTERNATE APPROXIMATE ARCHITECT(URAL) ALL-THREAD ROD BOTTOM OF BOUNDARY ELEMENT BUILDING BLOCKING BEAM BOUNDARY NAIL(ING) BOTTOM BASE PLATE BEARING BETWEEN COLD FORMED STEEL CAST-IN-PLACE CONTROL/CONTRACTION CONSTRUCTION JOINT CENTER LINE CLEAR CONCRETE MASONRY UNIT COLUMN CONCRETE CONNECTION CONTINUOUS CONTRACTOR COORDINATE CENTER PENNY (NAILS) DEFORMED BAR ANCHOR DOUBLE DEMAND CRITICAL WELD DETAIL DOUGLAS FIR/LARCH DIAMETER DIAPHRAGM DIMENSION DEAD LOAD DRAWING EDGE OF EACH EACH FACE EFFECTIVE EXTERIOR INSULATION FINISH SYSTEM ELECTRICAL **ELEVATION / ELEVATOR** EDGE NAIL(ING) ENGINEER EQUAL EACH SIDE EACH WAY EXISTING EXPANSION JOINT EXTERIOR FACE OF FLAT BAR FULL HEIGHT STIFFENER FINISH(ED FLOOR FOUNDATION FACE OF WALL FAR SIDE FEET / FOOT FOOTING GAUGE GALVANIZED GLULAM GLULAM BEAM HOLLOW CLAY MASONRY HEADER HANGER HORIZONTAL HEATING, VENTILATION AND AIR CONDITIONING HEADED WELD STUD

ABBREVIATIONS

KN

KSF

LSI

LVL

MAX

MIN

ОН

PJ

PS

PSF

PSI

REV

SMS

T&B

THK

VIF

W/O

JOIST

KIPS KEYNOTE KIPS PER SQUARE FOOT KIPS PER SQUARE INCH ANGLE LIVE LOAD LONG LEG HORIZONTAL LLH LONG LEG VERTICAL IIV LONG / LONGIT LONGITUDINAL LAMINATED STRAND LUMBER LAMINATED VENEER LUMBER MASONRY MATERIAL MATL MAXIMUM MACHINE BOLT MECH MECHANICAL MFR / MANU MANUFACTURER MINIMUM MISCELLANEOUS MISC METAL MTL NOT IN CONTRACT NUMBER NO / # NOM NOMINAL NEAR SIDE NOT TO EXCEED NTE NOT TO SCALE NTS ON CENTER OUTSIDE DIAMETER OF / OSF OUTSIDE FACE OPPOSITE HAND OPNG OPENING OPPOSITE OWWJ OPEN WEB WOOD JOIST PDA POWER DRIVEN ANCHOR PERP PERPENDICULAR PANEL JOINT PLATE PLB PARALLAM BEAM PLYWD / PLY PLYWOOD PNL PANEL POUR STRIP POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH PARALLEL STRAND LUMBER PRESSURE TREATED/POST TENSIONED REFERENCE REINFORCING REINE REQ / REQD REQUIRED REVISION SCHED SCHEDULE SFRS SEISMIC FORCE RESISTING SYSTEM SHTG / SHT'G SHEATHING SIM SIMILAR SLRS SEISMIC LOAD RESISTIVE SYSTEM SLV SHORT LEG VERTICAL SHEET METAL SCREW SLAB ON GRADE SOG SPACE (D)(S) SPEC(S) SPECIFICATION STAGG STAGGERED STD STANDARD STIFFENER STIFF STL STEEL STRUCT STRUCTURAL TOP & BOTTOM TOP OF THICK / THICKNESS THRU THROUGH TOTAL LOAD TOE NAIL TRANS TRANSVERSE TRANSV TUBE STEEL TYP TYPICAL UNLESS OTHERWISE NOTED UON / UNO VERT VERTICAL VERIFY IN FIELD VRFY VERIFY WITH WITHOUT WOOD WIDE FLANGE BEAM WORK POINT WWF WELDED WIRE FABRIC



Portland, OR 503.224.9560 Vancouver, WA 360.695.7879 Seattle, WA 206.749.9993 www.mcknze.com

MACKENZIE DESIGN DRIVEN | CLIENT FOCUSED

CREF3 PUYALLUP OWNER LLC 11611 SAN VICENTE BLVD. 10TH FLOOR LOS ANGELES, CA 90049

Project

240 15TH ST SE **PUYALLUP, WA 98372**

Mechanical/Electrical

STRUCTURAL DEFERRED SUBMITTALS

INTERNATIONAL BUILDING CODE

INSPECTION / INSPECTOR

INSIDE DIAMETER

INSIDE FACE

INFORMATION

INTERIOR

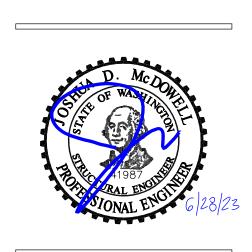
CONTRACTOR TO SUBMIT DRAWINGS & CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO ARCHITECTURE / ENGINEER BEFORE SUBMITTING TO JURISDICTION FOR REVIEW & PERMITTING ITEM

 ANCHORAGE FOR AND ATTACHMENT OF M/E/P/F SYSTEMS & EQUIPMENT TO STRUCTURE 2. OPEN WEB METAL JOISTS & GIRDERS 3. DESIGN-BUILD STAIRS AND GUARDRAILS

STRUCTURAL OBSERVATIONS

IN ACCORDANCE W/ IBC CH 17 & AT THE DIRECTION OF THE ENGINEER OF RECORD. THE FOLLOWING ITEMS REQUIRE PERIODIC STRUCTURAL OBSERVATION. NOTIFY ENGINEER OF RECORD AT LEAST 48 HOURS BEFORE A DESIGNATED WORK IS TO BE COVERED.

| ТЕМ | DESCRIPTION |
|------|---------------------------------------|
| | REINFORCING STEEL |
| AGMS | NAILING & STRAPPING OF WOOD DIAPHRAGM |
| | REINFORCING STEEL & EMBED PLACEMENT |



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|--|--------------|------------|--|--|--|--|
| | REVISION SCH | EDULE | | | | |
| Delta | Issued As | Issue Date | | | | |
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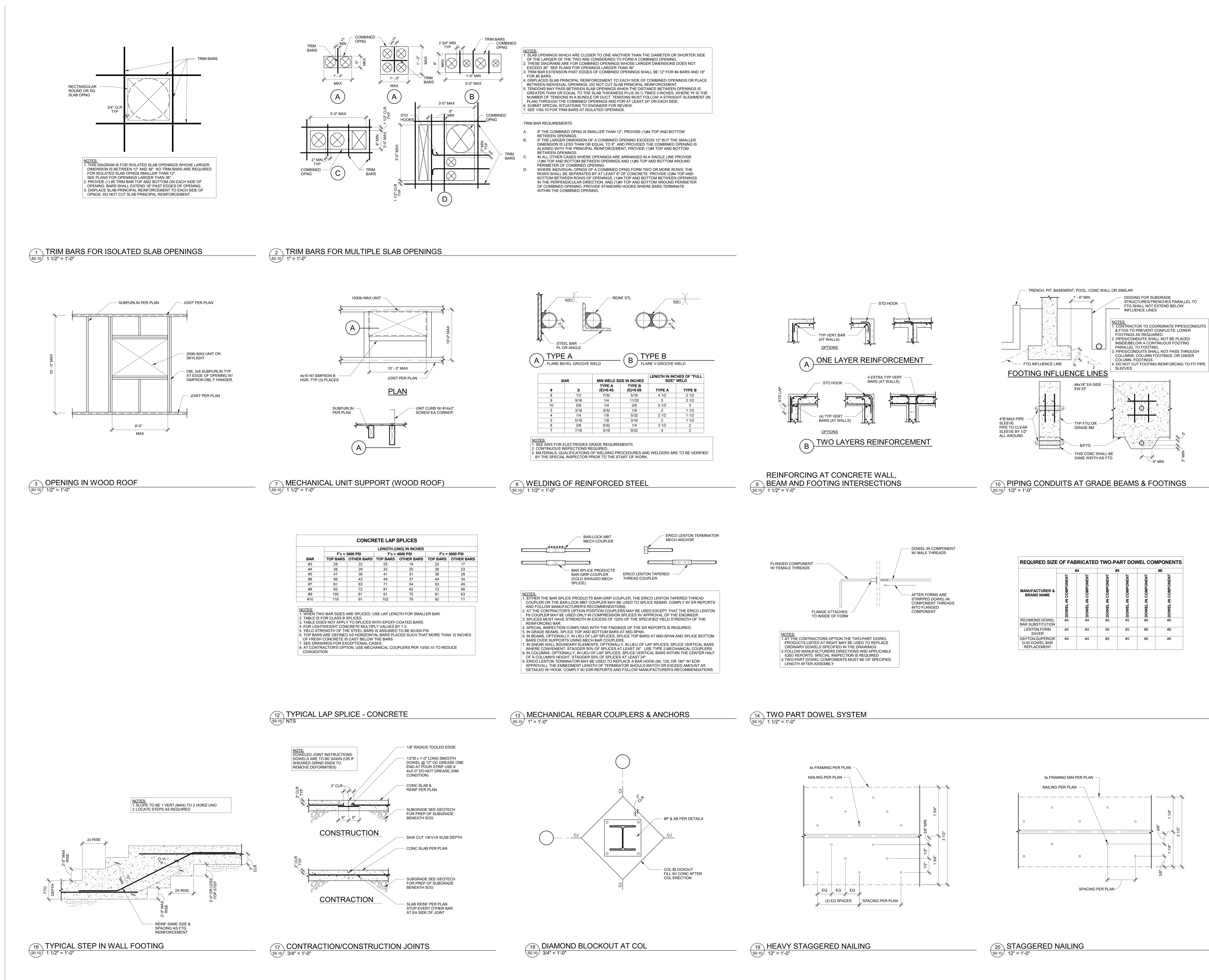
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SHEET TITLE: STRUCTURAL **GENERAL** NOTES

SHEET



90% CONSTRUCTION DOCUMENT 6/14/23 Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/27/2023 5:28:30 PM 12" = 1'-0"



| | | LENGTH (U | INO) IN INCHES | | |
|----------|------------|-----------|----------------|----------------|-----------|
| F'c = 3 | 3000 PSI | F'c = | 4000 PSI | F'c = 5000 PSI | |
| TOP BARS | OTHER BARS | TOP BARS | OTHER BARS | TOP BARS | OTHER BAR |
| 28 | 22 | 25 | 19 | 22 | 17 |
| 38 | 29 | 33 | 25 | 29 | 23 |
| 47 | 36 | 41 | 31 | 36 | 28 |
| 56 | 43 | 49 | 37 | 44 | 34 |
| 81 | 63 | 71 | 54 | 63 | 49 |
| 93 | 72 | 81 | 62 | 72 | 56 |
| 105 | 81 | 91 | 70 | 81 | 63 |
| 118 | 91 | 102 | 79 | 92 | 71 |
| | | | | | |

| | АК | | 0 | |
|----|------|--------------------|--------------------|--------|
| # | S | TYPE A (E)=0.4S | TYPE B (E)=0.6S | TYPE / |
| 8 | 1/2 | 7/32 | 5/16 | 4 1/2 |
| 9 | 9/16 | 1/4 | 11/32 | 5 |
| 10 | 5/8 | 1/4 | 3/8 | 5 1/2 |
| 3 | 3/16 | 3/32 | 1/8 | 2 |
| 4 | 1/4 | 1/8 | 5/32 | 2 1/2 |
| 5 | 5/16 | 1/8 | 3/16 | 3 |
| 6 | 3/8 | 5/32 | 1/4 | 3 1/2 |
| 7 | 7/16 | 3/16 | 9/32 | 4 |
| | | | | |



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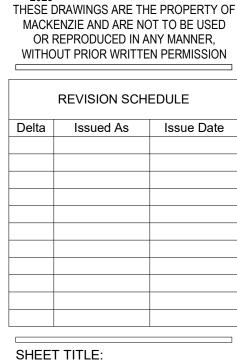
CREF3 PUYALLUP **OWNER LLC** 11611 SAN VICENTE BLVD. 10TH FLOOR LOS ANGELES, CA 90049

Project

> 240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical

| REQUIRED SIZE | OF FAB | RICATED | TWO-P | ART DOV | | MPONENTS |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | # | 4 | # | #5 | | #6 |
| MANUFACTURER & BRAND NAME | DOWEL-IN COMPONENT |
| RICHMOND DOWEL BAR SUBSTITUTION | #4 | #4 | #5 | #5 | #6 | #6 |
| LENTON FORM SAVER | #4 | #4 | #5 | #5 | #6 | #6 |
| DAYTON-SUPERIOR D-50 DOWEL BAR REPLACEMENT | #4 | #4 | #5 | #5 | #6 | #6 |



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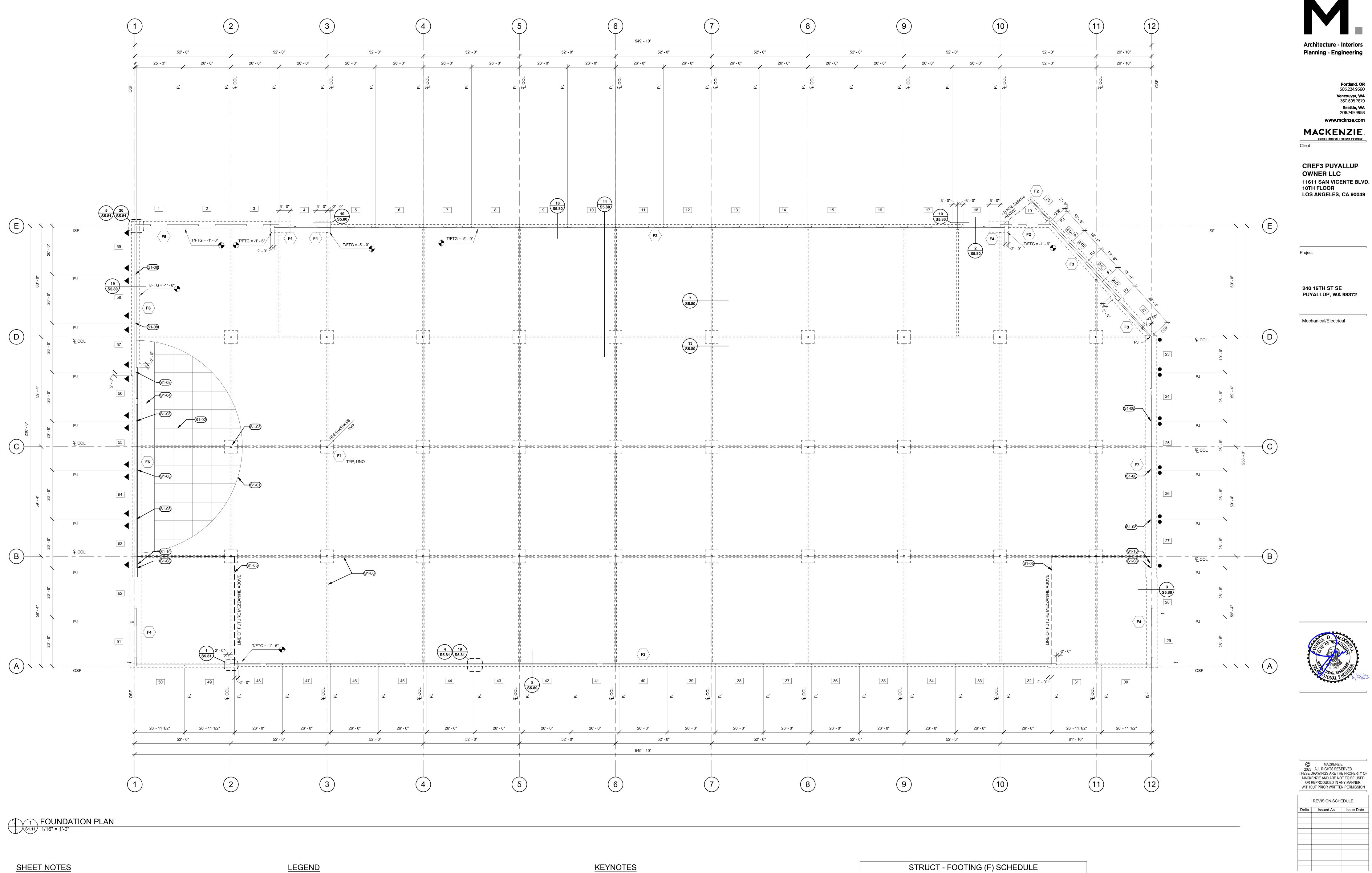
TYPICAL

DETAILS

SHEET



JOB NO. **2220290.00** 90% CONSTRUCTION DOCUMENT 6/14/23 Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/27/2023 5:28:34 PM As indicated



SHEET NOTES

- FOR GENERAL STRUCTURAL NOTES SEE SHEET S0.00. FOR TYPICAL STRUCTURAL DETAILS SEE SHEET S0.10. FOR SLAB-ON-GRADE AND FOUNDATION SUB-BASE, VAPOR-RETARDING MEMBRANE, GEOTEXTILE AND
- DRAINAGE REFER TO GEOTECHNICAL REPORT. LOCATE CL OF FOOTINGS AT CL OF COLUMNS AND/OR WALLS, UNO. SEE GENERAL STRUCTURAL NOTES FOR CONTRACTION / CONSTRUCTION JOINT REQUIREMENTS FOR
- SLAB ON GRADE. SEE TYPICAL DETAILS FOR REINFORCEMENT AT SLAB PENETRATION AND BLOCKOUTS.
- SEE TYPICAL DETAILS FOR TYPICAL REINFORCEMENT AT WALL AND FOOTING CORNERS AND INTERSECTIONS. SEE TYPICAL DETAILS FOR REINFORCEMENT LAP SPLICE LENGTH.
- CHAIR SLAB REINFORCING AS REQ'D. LIFTING OF BARS WHILE PLACING OF CONCRETE NOT ALLOWED. TOP OF FOOTING ELEVATIONS ARE SHOWN RELATIVE TO TOP OF SLAB ON GRADE ELEVATION OF 0'-0". SEE
- CIVIL/ARCH FOR REFERENCE ELEVATION DATUM INFORMATION. TYPICAL TOP OF FOOTING ELEVATIONS = -0'-9" (INTERIOR) UON ON PLAN. SEE GENERAL STRUCTURAL NOTES FOR CONTRACTOR'S RESPONSIBILITIES FOR COORDINATING TOP &
- BOTTOM OF FOOTING ELEVATIONS, FOOTING STEPS, SITE CONDITIONS AND UTILITIES. COORDINATE ALL DIMENSIONS AND ELEAVTIONS WITH ARCH DRAWING INCLUDING SLAB ELEVATIONS, М. SLOPES, STEPS, AND RECESSES.

T/FTG - x' - x" TOP OF FOOTING ELEV. RELATIVE TO 0'-0" S1-01 S1-02 FOOTING PER SCHEDULE S1-03 S1-04 S1-05 HOLD DOWN PER 19/S5.80 W/ (4) #6 BARS

HOLD DOWN PER 19/S5.80 W/ (2) #6 BARS

PANEL NUMBER

 $\langle FA \rangle$

99

<u>KEYNOTES</u>

| S1-01 | 7" CONCRETE SLAB-ON-GRADE W/ #3 @ 15" OC EW. FOR SUB-BASE, SEE GEOTECHNICAL REPORT |
|-------|--|
| S1-02 | CONTRACTION/CONSTRUCTION JOINTS PER TYPICAL DETAILS, S0.10 AND GENERAL NOTES, S0.00 |
| S1-03 | COLUMN BLOCKOUT PER 13/S5.80 |
| S1-04 | POUR STRIP, 10'-0" WIDE OR AS REQD W/ REINFORCING PER KEYNOTE S1-01. CONTINUE SAWCUTS INTO POUR STRIP |
| S1-05 | FUTURE MEZZANINE ABOVE BY OTHERS. BASIS OF DESIGN ASSUMES: LIGHT GAUGE METAL WALL STUDS AND FLOOR JOISTS W/ INTERMEDIATE BEARING WALLS (20'-0" MAXIMUM JOIST SPAN) WOOD STRUCTURAL PANELS TONGUE AND GROOVE FLOOR SHEATHING LIGHTWEIGHT GYPCRETE TOPPING 1 1/2" MAX THICKNESS AT ELEVATED DECK 5/8" MAX THICKNESS GYPSUM BOARD AT WALLS CARPET OR SIMILAR WEIGHT FINISH AT ELEVATED DECK SUSPENDED ACOUSTICAL CEILING TILE CEILINGS ELEVATED DECK CONNECTS TO TILT-UP PANELS (WHERE APPLICABLE) |
| S1-06 | GRADE BEAMS W/ REINF PER 7/S5.80 CONNECT TO FTGS PER 9/S5.80. PROVIDE CONSTANT SLOPE TO LOW DOCK FTGS PER 11/S5.80. |
| S1-08 | ADDL VERT REINF IN FTG PER 15/S5.80 AT PANEL JOINT. EXTEND VERT REINF FOR 4'-0" FROM PANEL JOINT EA SIDE. TOP REINF TO MATCH BOTT REINF, EXTEND FOR 5'-0" FROM PANEL JOINT EA SIDE. |
| S1-10 | FUTURE DRAG MEMBER REQD TO TRANSFER FUTURE MEZZANINE |

DARD AT WALLS NISH AT ELEVATED DECK G TILE CEILINGS TILT-UP PANELS (WHERE .80 CONNECT TO FTGS PER 9/S5.80. W DOCK FTGS PER 11/S5.80. 5.80 AT PANEL JOINT. EXTEND L JOINT EA SIDE. TOP REINF TO 5'-0" FROM PANEL JOINT EA SIDE. TRANSFER FUTURE MEZZANINE SEISMIC LOAD INTO ADJACENT SOLID PANEL

| | STRUCT - FOOTING (F) SCHEDULE | | | | | | | | |
|------|--|------------|---------|--------------|-------------|---|--|--|--|
| | NOTE: LENGTH PER PLAN IF BLANK IN SCHEDULE | | | | | | | | |
| | | DIMENSIONS | | REINF | ORCEMENT | | | | |
| MARK | WIDTH | LENGTH | DEPTH | LONGITUDINAL | TRANSVERSE | REMARKS | | | |
| F1 | 7' - 0" | 7' - 0" | 1' - 6" | #5 @ 9" OC | #5 @ 9" OC | | | | |
| F2 | 2' - 6" | | 1' - 0" | #5 @ 12" OC | #5 @ 12" OC | | | | |
| F3 | 4' - 6" | | 1' - 0" | #5 @ 12" OC | #5 @ 12" OC | | | | |
| F4 | 6' - 0" | | 1' - 6" | #5 @ 9" OC | #5 @ 9" OC | | | | |
| F5 | 4' - 0" | | 1' - 0" | #5 @ 12" OC | #5 @ 12" OC | | | | |
| F6 | 4' - 6" | | 2' - 0" | #5 @ 9" OC | #5 @ 9" OC | SEE KEYNOTE FOR VERT REINF AND TOP REINF AT PANEL JOINTS | | | |
| F7 | 6' - 0" | | 3' - 0" | #6 @ 9" OC | #6 @ 9" OC | SEE KEYNOTE FOR VERT REINF AND TOP REINF AT PANEL JOINTS | | | |

> SHEET

FOUNDATION

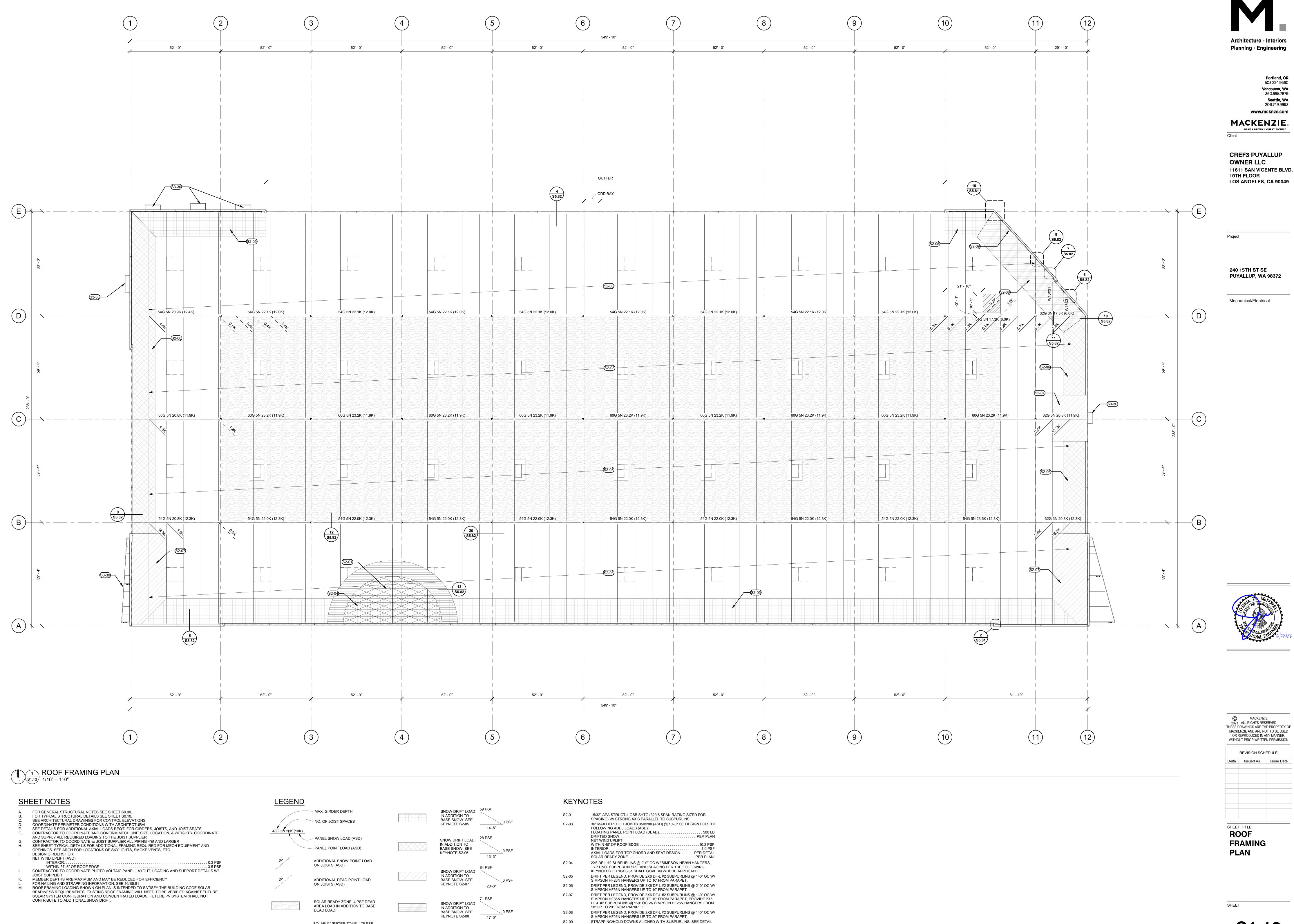
SHEET TITLE:

PLAN



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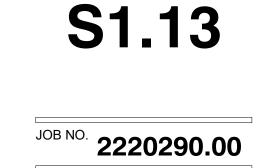
| _ | MAX. GIRDER DEPTH |
|---|-------------------|
| | |

SOLAR INVERTER ZONE. 175 PSF DEAD AREA LOAD IN ADDITION TO BASE DEAD LOAD. SUBPURLINS AND PLYWOOD FRAMING NOT DESIGNED FOR ADDL LOAD; ADDL FRAMING MAY BE REQD FOR FUTURE INVERTER(S).

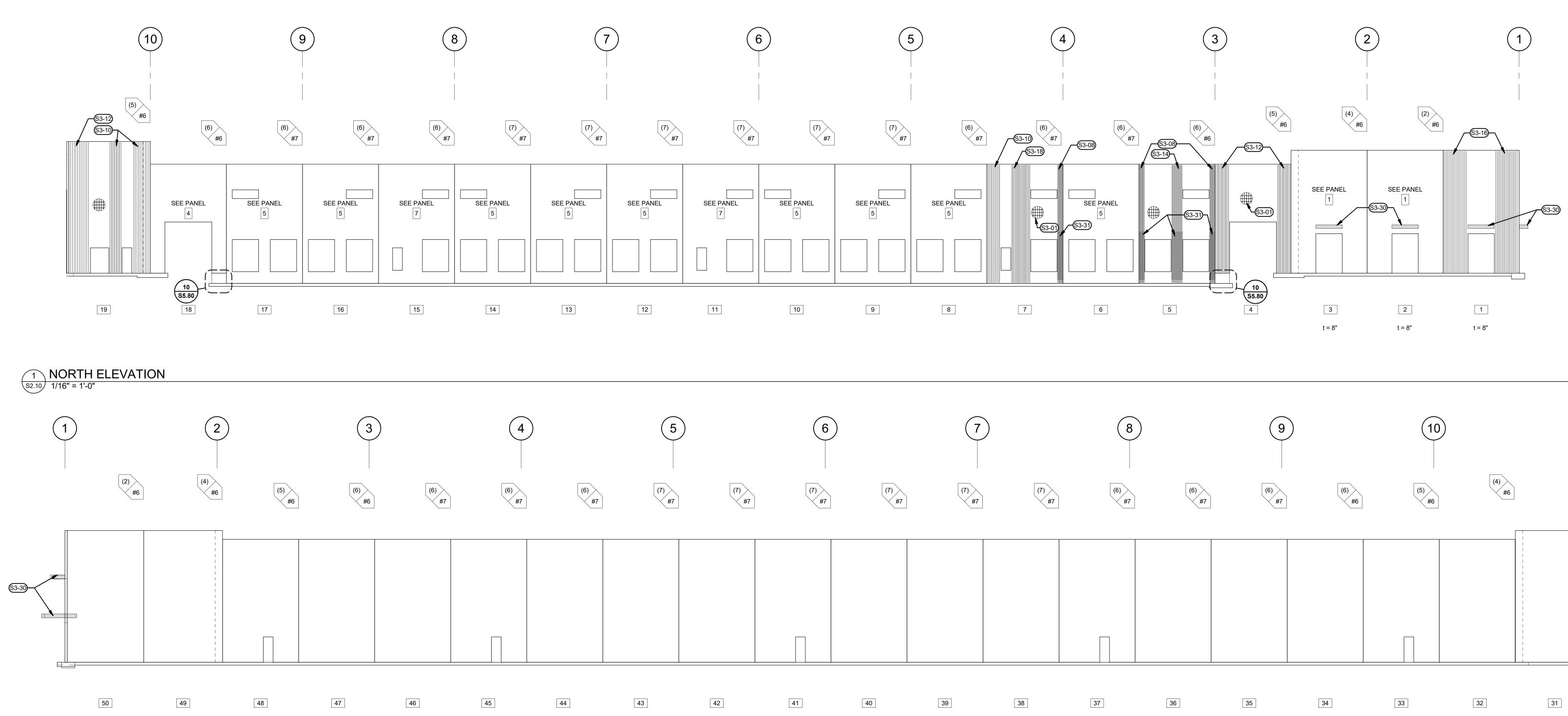
STRAPPING/HOLD DOWNS ALIGNED WITH SUBPURLINS. SEE DETAIL 7/S5.82.

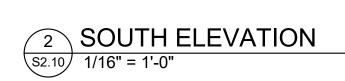
S3-30

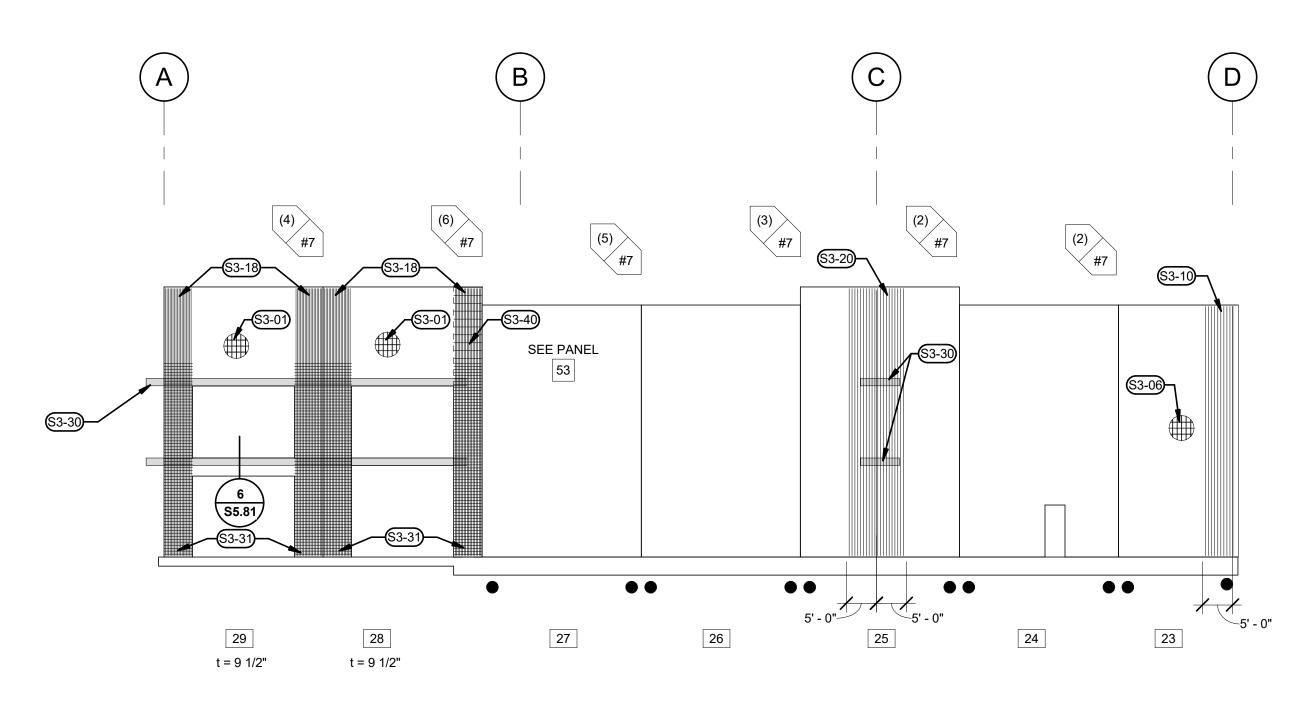
EXTERIOR ACCENT/CANOPY FRAMING, SEE ARCH.



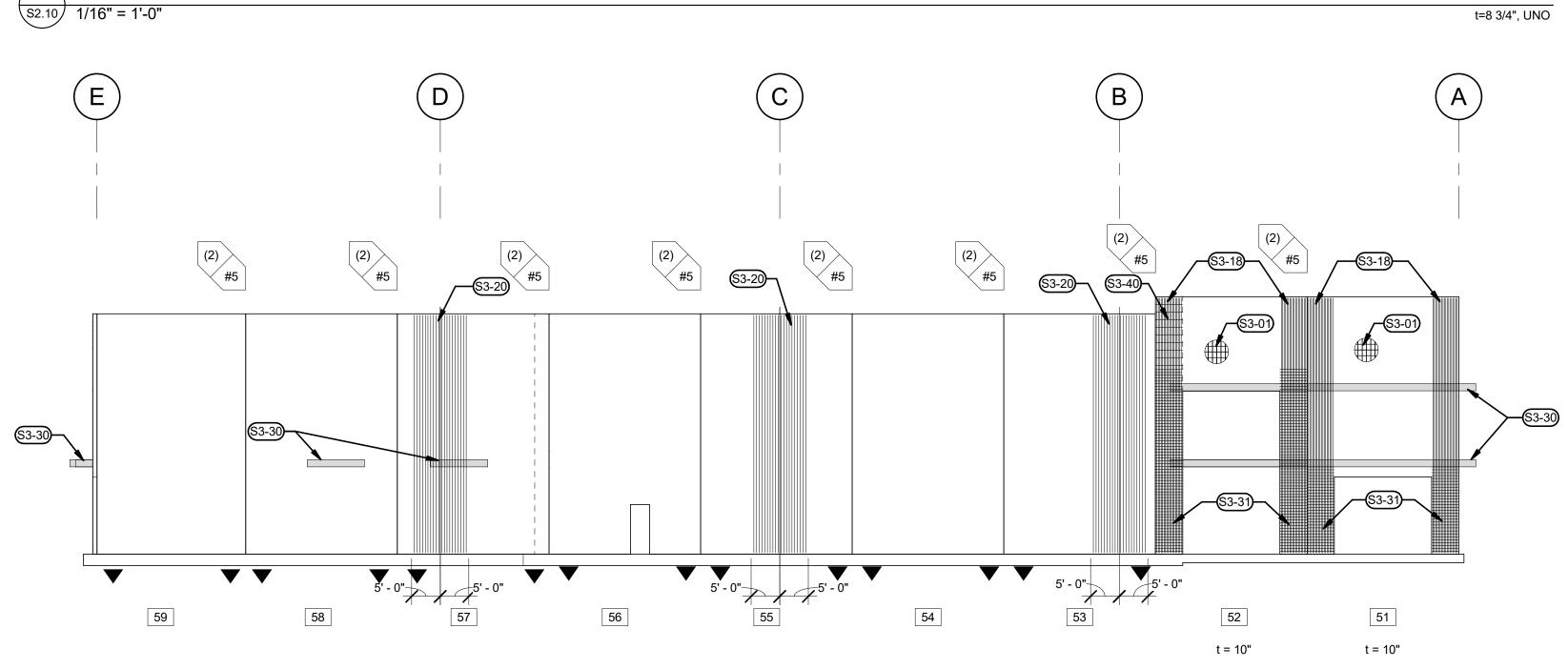
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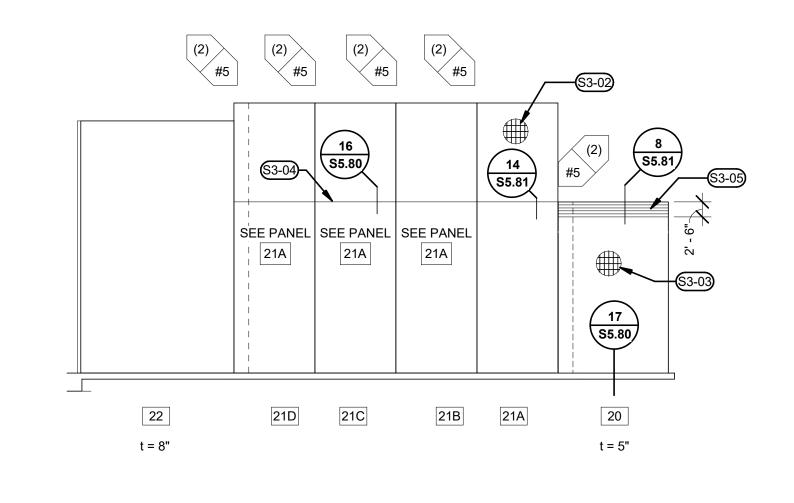




3 EAST ELEVATION S2.10 1/16" = 1'-0"



5 WEST ELEVATION S2.10 1/16" = 1'-0"



t=9", UNO

4 NORTHEAST ELEVATION S2.10 1/16" = 1'-0"

| | | | | | | | t=9 1/2", UNO |
|-----------|-----------|-----------|-----------|-----------|--------|-----------|---------------|
| 8 | | 9 | | | | 11 | (12) |
| (6) #7 | (6) #7 | (6) #7 | (6) #6 | (5) #6 | (4) #6 | (2) #6 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 |

t=8", UNO

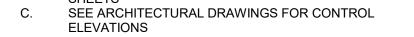
T/PANEL PER ARCH T/SLAB T/FTG

7 TYPICAL PANEL REINFORCING S2.10 1/8" = 1'-0"

TYPICAL SHEET NOTES

A. FOR GENERAL STRUCTURAL NOTES SEE S0.00 SERIES

B. FOR TYPICAL STRUCTURAL DETAILS SEE S0.10 SERIES SHEETS



<u>LEGEND</u>

| 99 | PANEL NUMBER |
|-----|---|
| | # CHORD BARS, REF. 15/S5.81 AND 2/S5.81 WHERE APPLICABLE |
| (X) | SIZE OF REINF. |
| • | HOLD DOWN PER 19/S5.80 W/ (4) #6 BARS |
| ▼ | HOLD DOWN PER 19/S5.80 W/ (2) #6 BARS |
| t = | PANEL THICKNESS |
| | |

<u>KEYNOTES</u>

| S3-01 | #4 @ 9"OC CL EW |
|-------|--|
| S3-02 | #5 VERT BARS @ 6" OC EF & #4 HORIZ BARS @ 12" OC CL. PROVIDE #4 HORIZ BARS @ 12" OC EF AT THICKENED PORTION OF PANEL |
| S3-03 | BLADE WALL FEATURE. #5 VERT BARS @ 9" OC CL & #4 HORIZ BARS @ 12" OC CL |
| S3-04 | STEP IN PANEL TO MATCH THICKNESS OF BLADE WALL FEATURE |
| S3-05 | #4 HORIZ REINF @ 6" OC EF ((5) TOTAL MIN EF) |
| S3-06 | #5 VERT @ 10" OC EF & #4 HORIZ @ 12" OC EF |
| S3-08 | (8) #5 VERT BARS EF, EQ SPACED IN LEG |
| S3-10 | (10) #5 VERT BARS EF, EQ SPACED IN LEG |
| S3-12 | (12) #5 VERT BARS EF, EQ SPACED IN LEG |
| S3-14 | (14) #5 VERT BARS EF, EQ SPACED IN LEG |
| S3-16 | (16) #5 VERT BARS EF, EQ SPACED IN LEG |
| S3-18 | (18) #5 VERT BARS EF, EQ SPACED IN LEG |
| S3-20 | (20) #5 VERT BARS EF, EQ SPACED IN LEG |
| S3-30 | EXTERIOR ACCENT/CANOPY FRAMING, SEE ARCH. |
| S3-31 | #3 HOOPS @ 6" OC SEE 9/S5.81 FOR EXTENT |
| S3-40 | #3 HOOPS AT THICKENED PANEL LEG PER 1/S5.81 |
| | |



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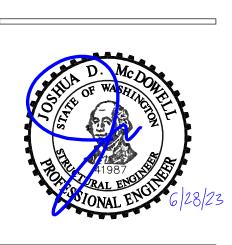
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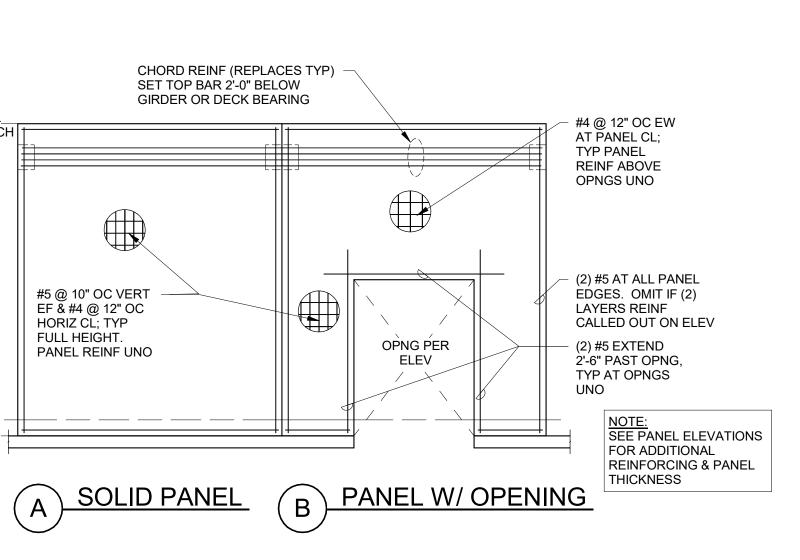
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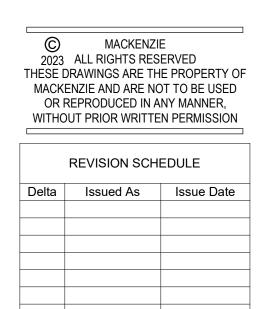
Project

> 240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical







SHEET TITLE: EXTERIOR WALL **ELEVATIONS**

SHEET

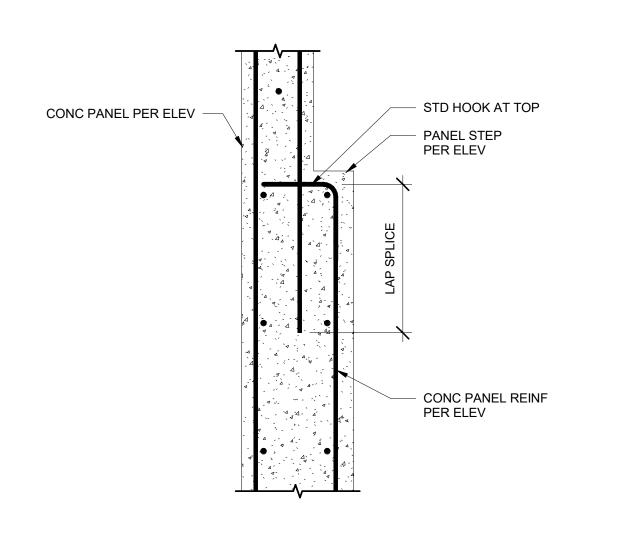


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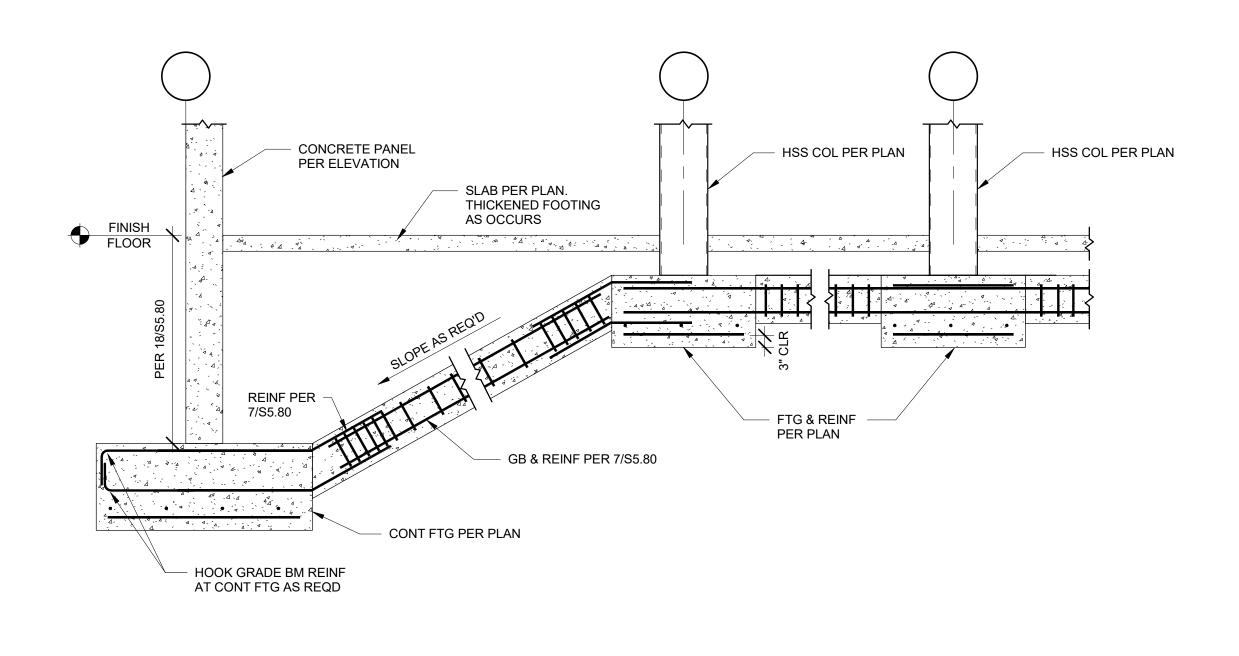
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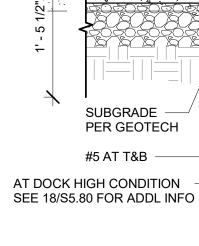


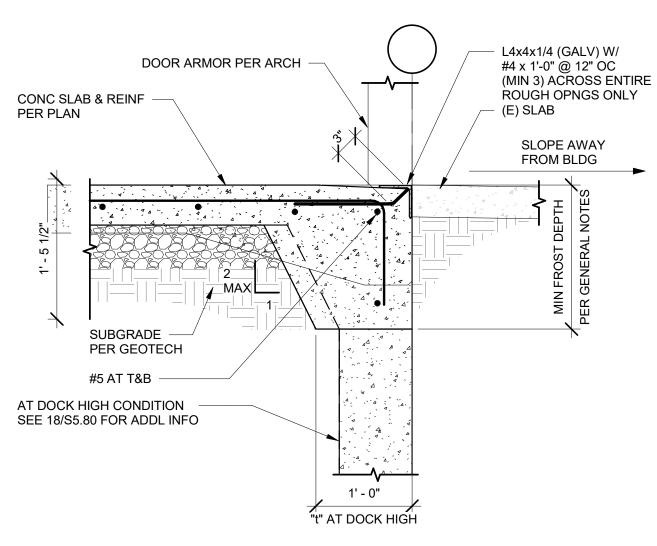


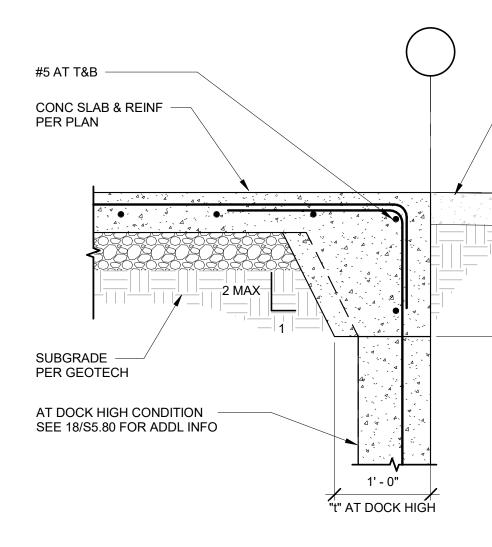
GRADE BEAM AT DOCK PANEL FOOTING S5.80 1/2" = 1'-0"



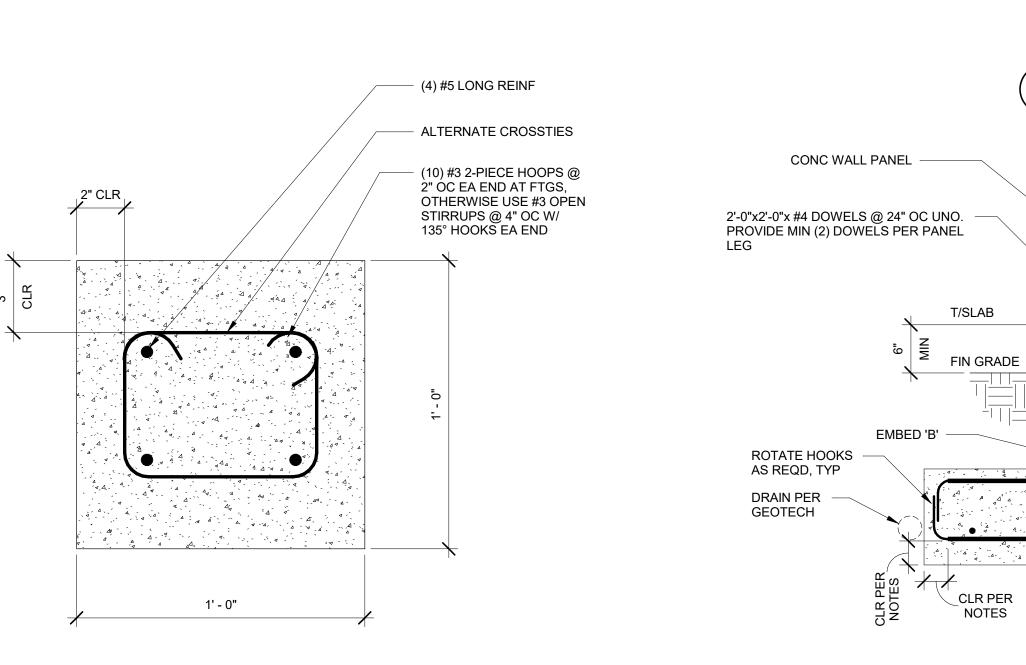
7 FOUNDATION TIES (55.80) 3" = 1'-0"







3 TURN DOWN SLAB EDGE S5.80 1" = 1'-0"

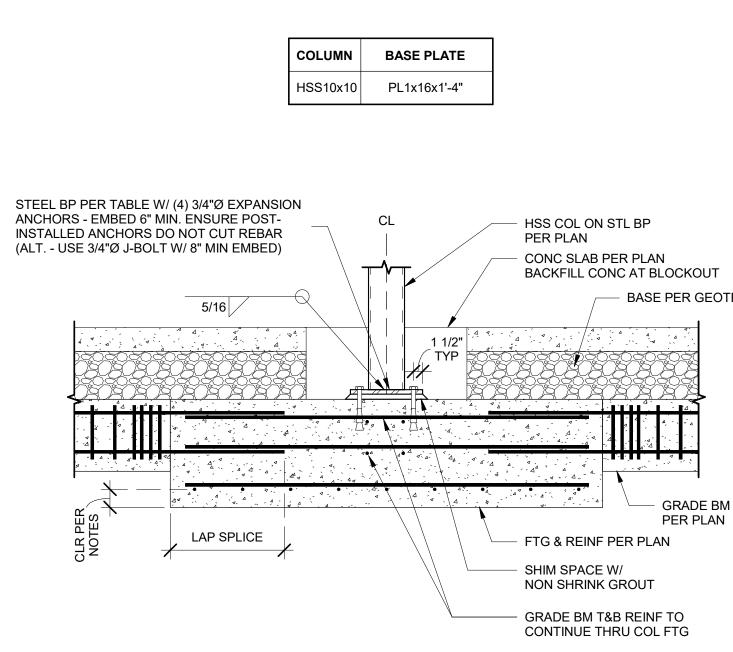


2" CLR

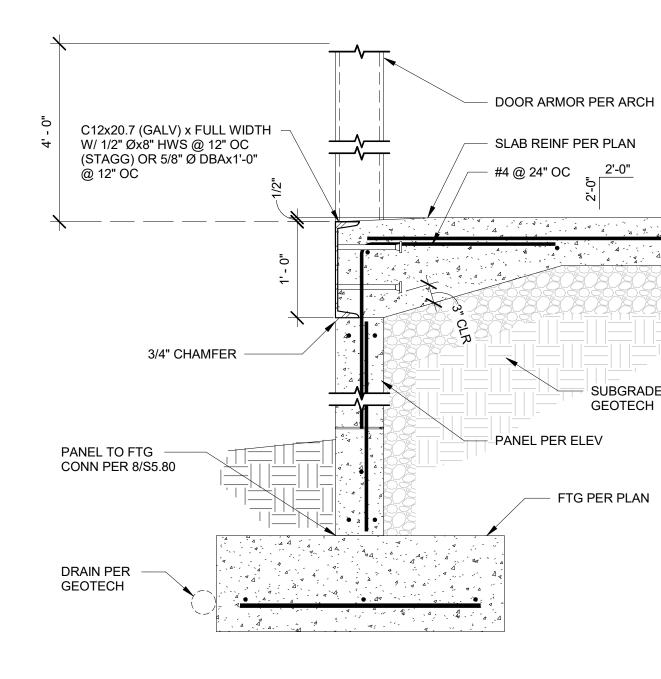
- **Q** * __N

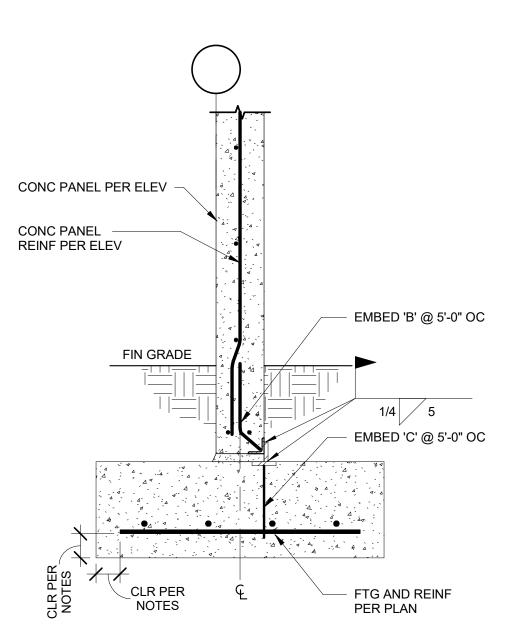
2 TURN DOWN SLAB EDGE AT DRIVE-IN DOOR S5.80 1" = 1'-0"

8 PANEL TO SLAB AND FOOTING S5.80 1" = 1'-0"



13 COLUMN TO FOOTING S5.80 3/4" = 1'-0"

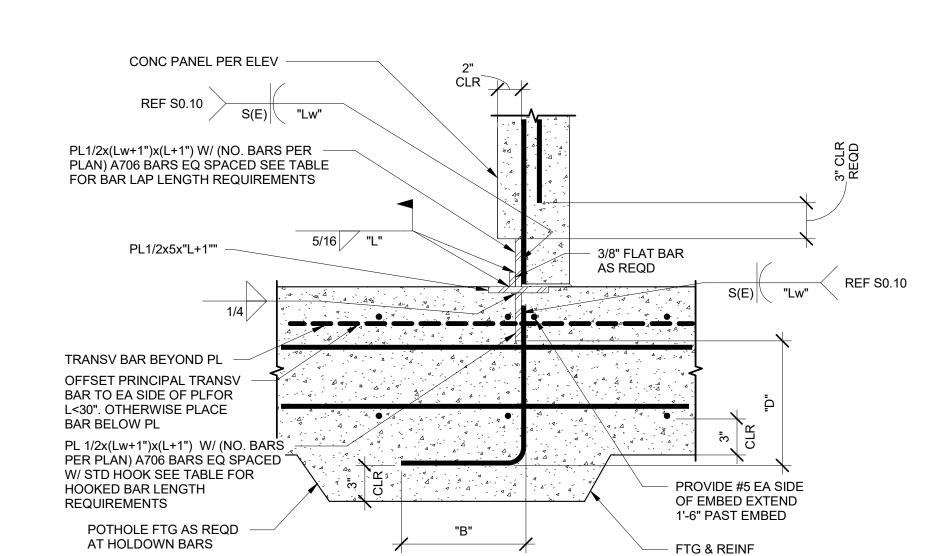




18 DOCK HIGH DOOR \$5.80 1" = 1'-0"

19 SINGLE SIDED HOLDDOWN CONNECTION AT FOOTING (SFRS) S5.80 1 1/2" = 1'-0"

PER PLAN



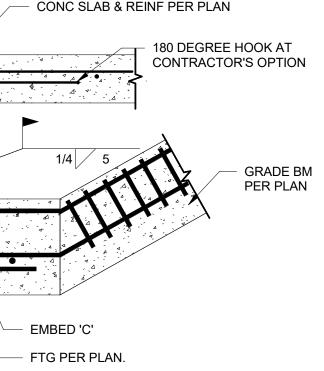
PER PLAN

SUBGRADE PER

GEOTECH

FTG PER PLAN

- BASE PER GEOTECH



NOTE: PLACE PANEL TO FOOTING CONNECTION 12" FROM EACH END OF EACH PANEL. SHIM & GROUT AS REQUIRED AND WELD WITH 1/2" FLAT BAR.

DOWEL SPACING AT SIM

GRID LINE SPACING

1, 12 1'-0" OC



NOTE: SEE 7/S5.81 FOR EMBEDS 10 PLINTH DETAIL \$5.80 3/4" = 1'-0"

90% CONSTRUCTION DOCUMENT 6/14/23

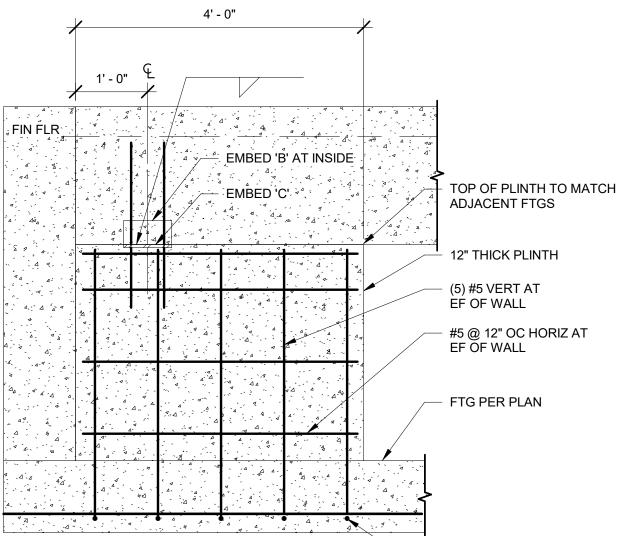
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NOTES: 1. PLACE EDGE OF CONNECTION 1'-0" FROM EACH END OF SHEAR WALLS, TYP EXAMPLE EVATION FOR NUMBER & 2. SEE PLAN & ELEVATION FOR NUMBER & SIZE OF REINFORCING

BAR "B" (# OF BARS EA PL PER PLAN) "Lw' SIZE (2) (3) (4) (5) (6) (7) (8)
 #5
 4.5"
 48"
 15"
 10"
 8"
 12"
 16"
 20"
 24"
 30"
 34"
 *#*6 5.5" 56" 18" 12" 12" 18" 24" 30" 36" 42" 48"

15 VERTICAL REINF AT PANEL JOINT S5.80 1/2" = 1'-0"

- WALL PER PLAN #4 @ 1'-6" OC EW PROVIDE -135° HOOK ON TOP & STD HOOK AT BOTT. - FTG PER PLAN - TOP REINF PER KEYNOTE. SEE PLAN FOR EXTENT SEE PLAN, SCHED IT IS ACCEPTABLE TO PROVIDE TERMINATOR PER PLAN IN LIEU OF STD HOOK



STD HOOK INTO FTG

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Planning - Engineering

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11611 SAN VICENTE BLVD.

LOS ANGELES, CA 90049

OWNER LLC

10TH FLOOR

Project

Client

240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical



SHEET

SHEET TITLE: TILT

DETAILS

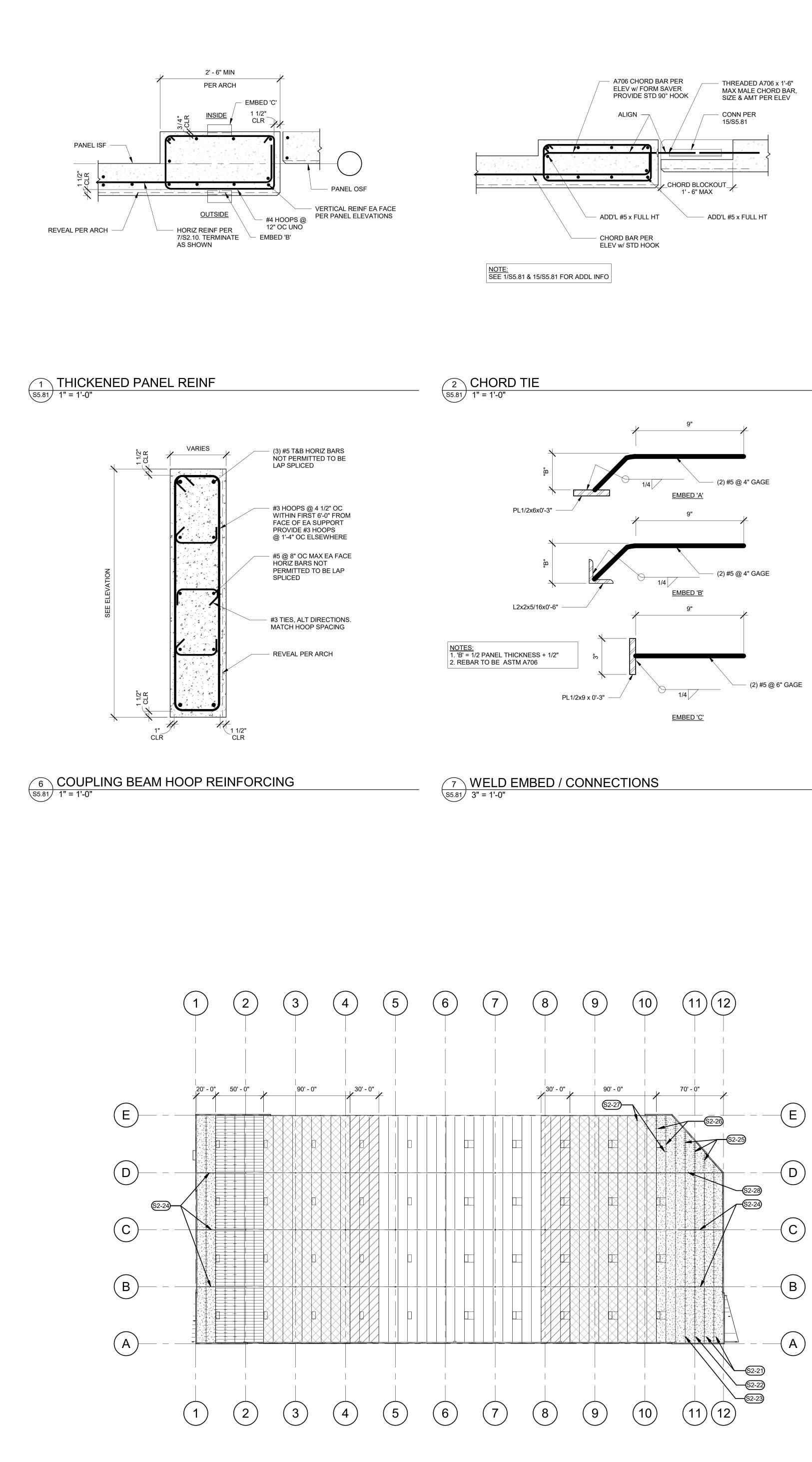
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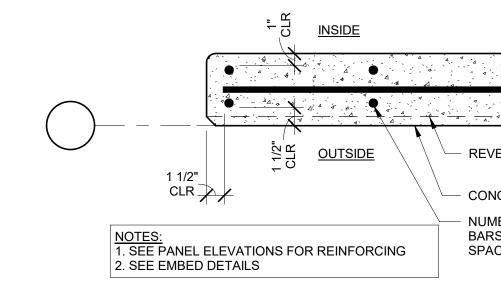
S5.80

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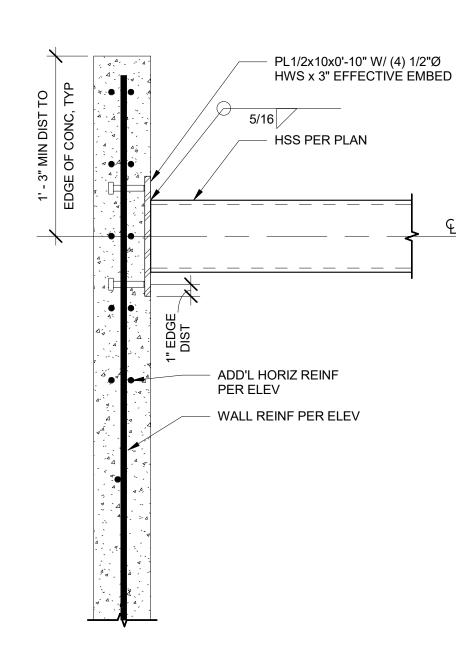
REVISION SCHEDULE

Issued As Issue Date





3 TYP PANEL LEG REINF S5.81 1 1/2" = 1'-0"



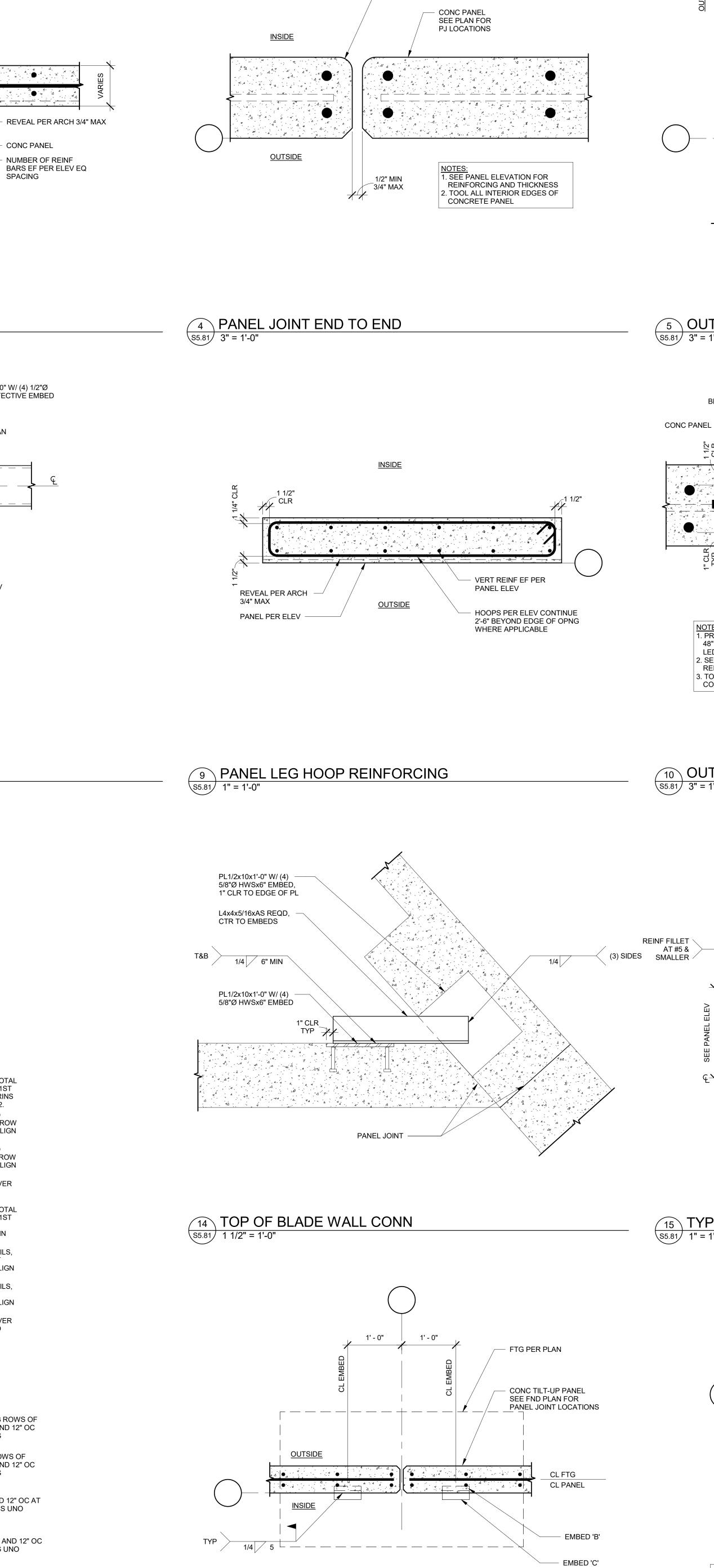
8 HSS TO PANEL CONN (S5.81) 1 1/2" = 1'-0"

<u>KEYNOTES</u>

| S2-21 | SIMPSON CMST12 COILED STRAPS @ 4'-0" OC W/ (86) TOTAL 10D NAILS, SUBPURLIN TO SUBPULIN. STRAP ACROSS 1ST AND 2ND ROW OF JOISTS FROM WALL. USE 4X SUBPURINS AND ALIGN STRAPS W/ HOLDDOWNS IN DETAIL 15/S5.82. |
|-------|--|
| S2-22 | SIMPSON MSTI36 STRAPS @ 4'-0" OC W/ (36) TOTAL 10D NAILS, SUBPURLIN TO SUBPULIN. STRAP ACROSS 3RD ROW OF JOISTS FROM WALL. USE MIN 3X SUBPURINS AND ALIGN STRAPS W/ HOLDDOWNS IN DETAIL 15/S5.82. |
| S2-23 | SIMPSON MSTI36 STRAPS @ 8'-0" OC W/ (36) TOTAL 10D NAILS, SUBPURLIN TO SUBPULIN. STRAP ACROSS 4TH ROW OF JOISTS FROM WALL. USE MIN 3X SUBPURINS AND ALIGN STRAPS W/ HOLDDOWNS IN DETAIL 15/S5.82. |
| S2-24 | NAIL GIRDER W/ 10D NAILS @ 1 1/4" OC STAGGERED OVER FIRST 50FT FROM WALL. SEE 9/S5.82 FOR NAILER AND 20/S0.10 FOR NAILING PATTERN. |
| S2-25 | SIMPSON CMST14 COILED STRAPS @ 2'-0" OC W/ (54) TOTAL 10D NAILS, SUBPURLIN TO SUBPULIN. STRAP ACROSS 1ST AND 2ND JOISTS FROM SKEWED WALL. USE MIN 4X SUBPURLINS AND ALIGN STRAPS W/ WELDED STRAPS IN DETAIL 7/S5.82. |
| S2-26 | SIMPSON MSTI48 STRAPS @ 4'-0" W/ (48) TOTAL 10D NAILS, SUBPURLIN TO SUBPURLIN. STRAP ACROSS 3RD JOIST FROM SKEWED WALL. USE MIN 3X SUBPURLINS AND ALIGN STRAPS W/ WELDED STRAPS IN DETAIL 7/S5.82. |
| S2-27 | SIMPSON MSTI48 STRAPS @ 8'-0" W/ (48) TOTAL 10D NAILS, SUBPURLIN TO SUBPURLIN. STRAP ACROSS 4TH JOIST FROM SKEWED WALL. USE MIN 3X SUBPURLINS AND ALIGN STRAPS W/ WELDED STRAPS IN DETAIL 7/S5.82. |
| S2-28 | NAIL GIRDER W/ 10D NAILS @ 1 1/4" OC STAGGERED OVER FIRST 130FT FROM WALL. SEE 9/S5.82 FOR NAILER AND 20/S0.10 FOR NAILING PATTERN. |
| | |

<u>LEGEND</u>

| 10d @ 2 1/2" OC STAGGERED NAILING USING 3 ROWS OF FASTENERS PER 19/S0.10 AT PANEL EDGES AND 12" OC AT INTERIOR SUPPORTS. USE 4x SUBPURLINS |
|--|
| 10d @ 4" OC STAGGERED NAILING USING 3 ROWS OF FASTENERS PER 19/S0.10 AT PANEL EDGES AND 12" OC AT INTERIOR SUPPORTS. USE 4x SUBPURLINS |
| 10d @ 2 1/2" OC NAILING AT PANEL EDGES AND 12" OC AT INTERIOR SUPPORTS. USE 3x MIN SUBPURLINS UNO |
| 10d @ 4" OC NAILING USING AT PANEL EDGES AND 12" OC AT INTERIOR SUPPORTS. USE 2x SUBPURLINS UNO |
| 10d @ 6" OC NAILING AT PANEL EDGES AND 12" OC AT INTERIOR SUPPORTS. USE 2x SUBPURLINS UNO |



TOOLED EDGE, TYP

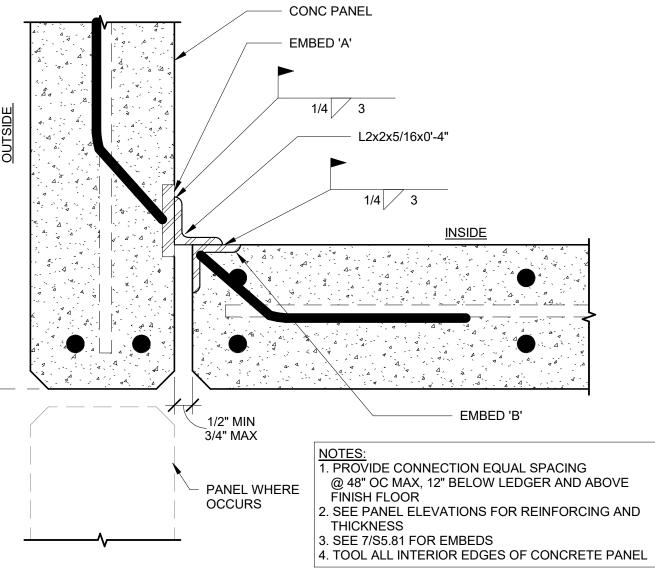
AT INSIDE EDGES



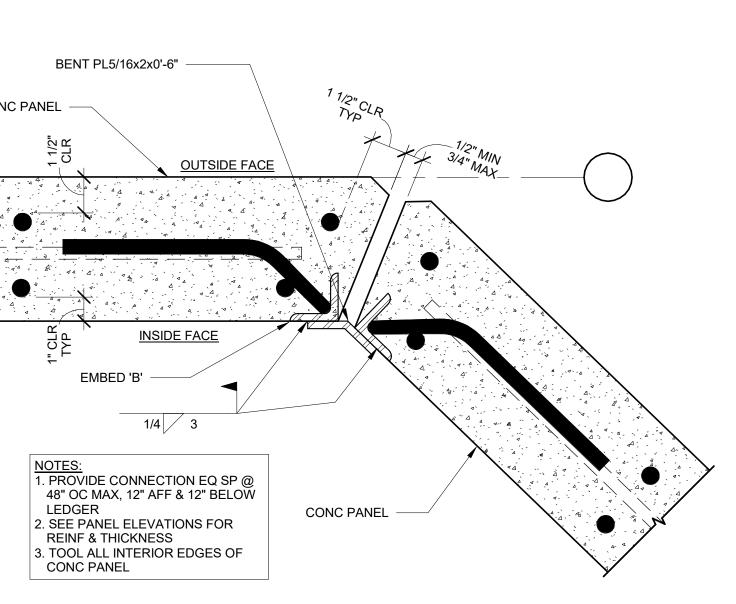
NOTE: SEE 7/S5.81 FOR EMBEDS



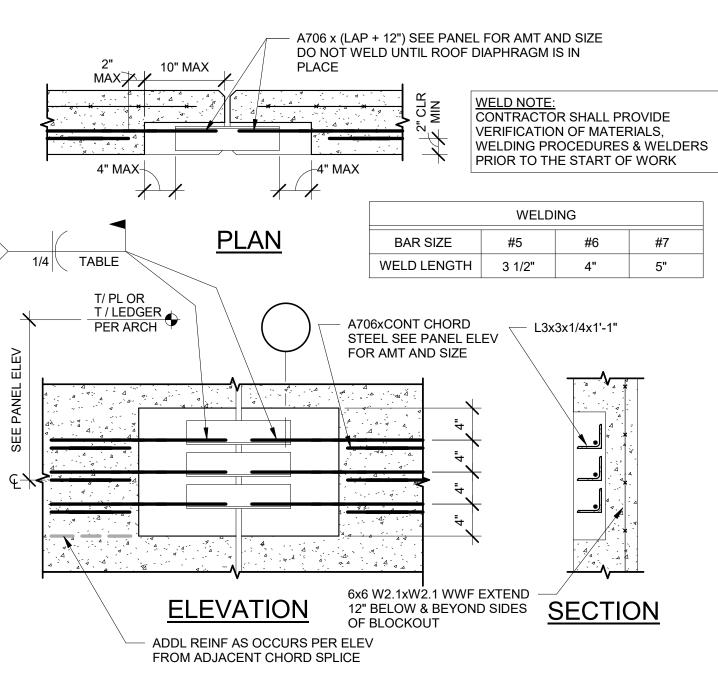




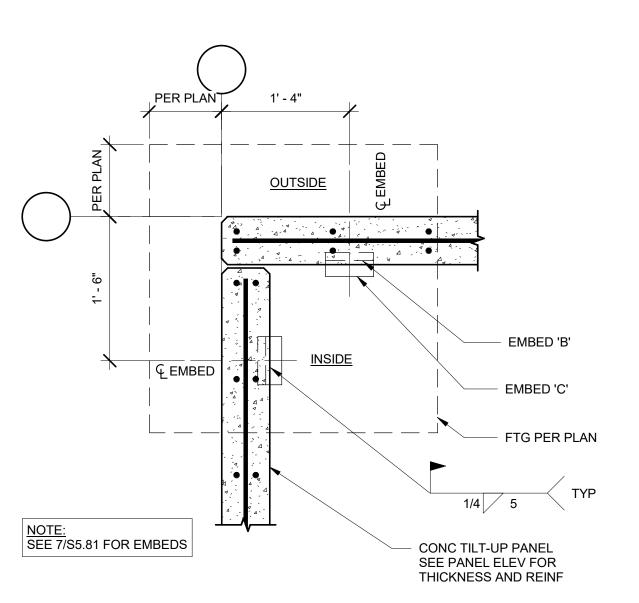
5 OUTSIDE CORNER 90 DEGREE EDGES S5.81 3" = 1'-0"



10 OUTSIDE CORNER ANGLED WALL S5.81 3" = 1'-0"



15 TYPICAL CHORD SPLICE (SFRS) S5.81 1" = 1'-0"



20 OUTSIDE CORNER \$5.81 1" = 1'-0"

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Project

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Mechanical/Electrical

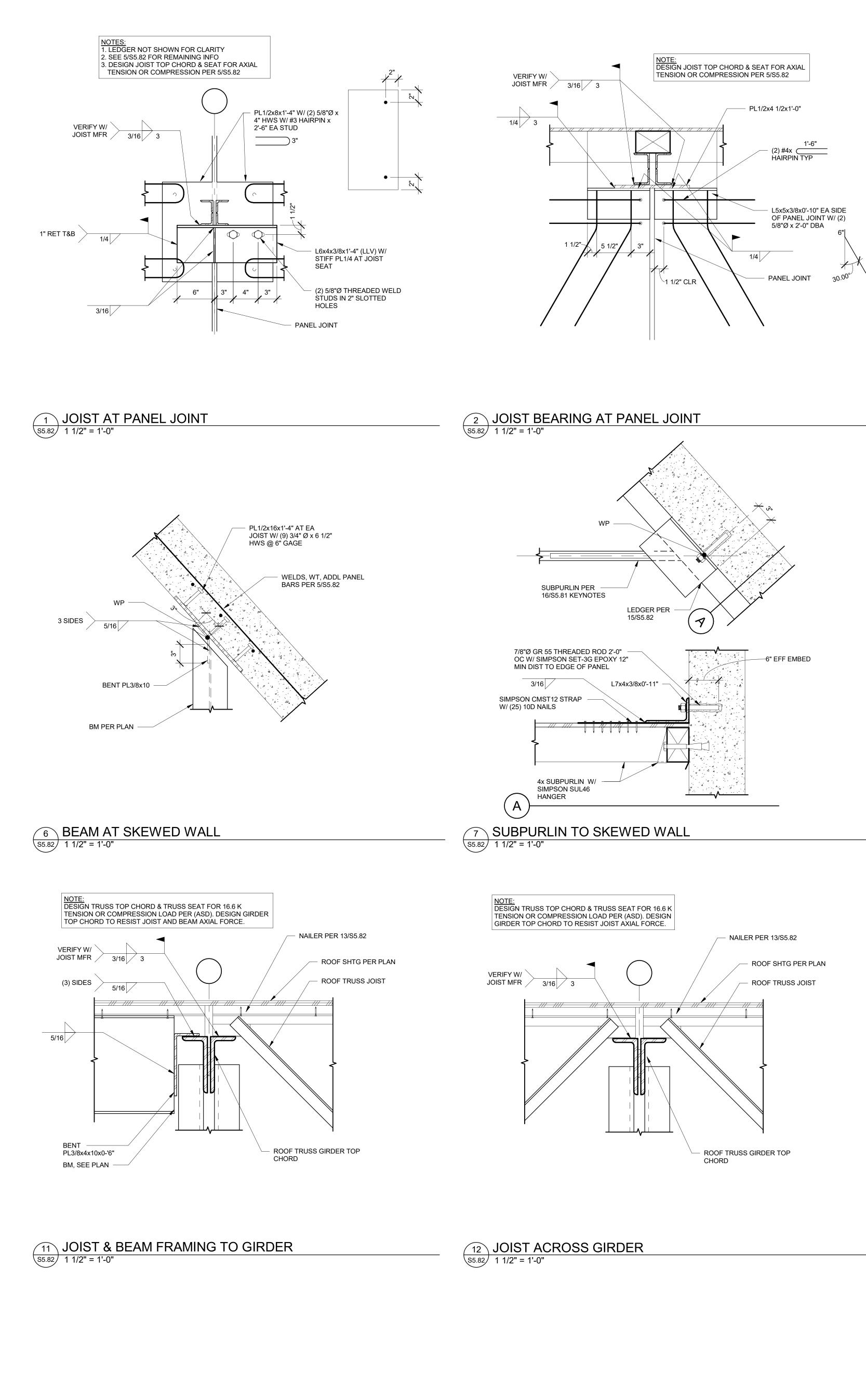


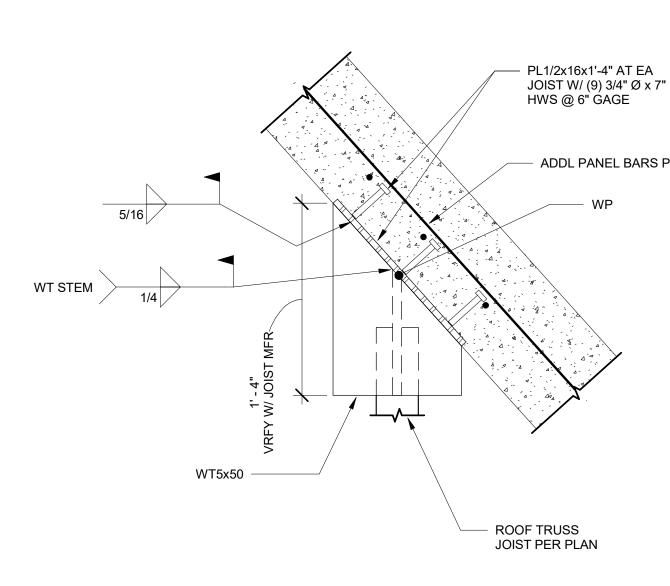
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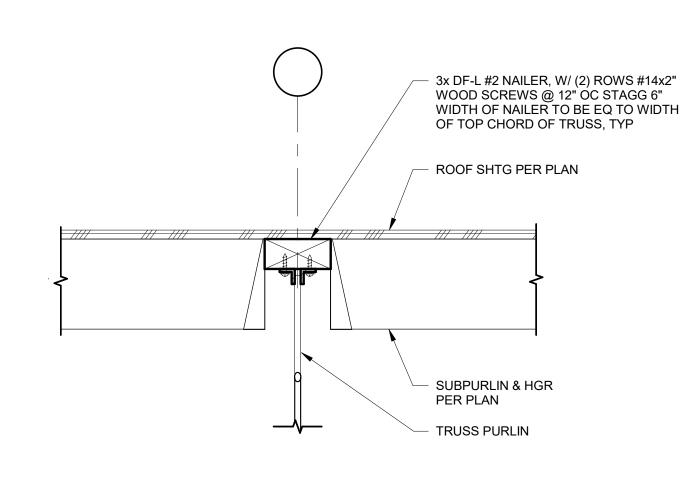
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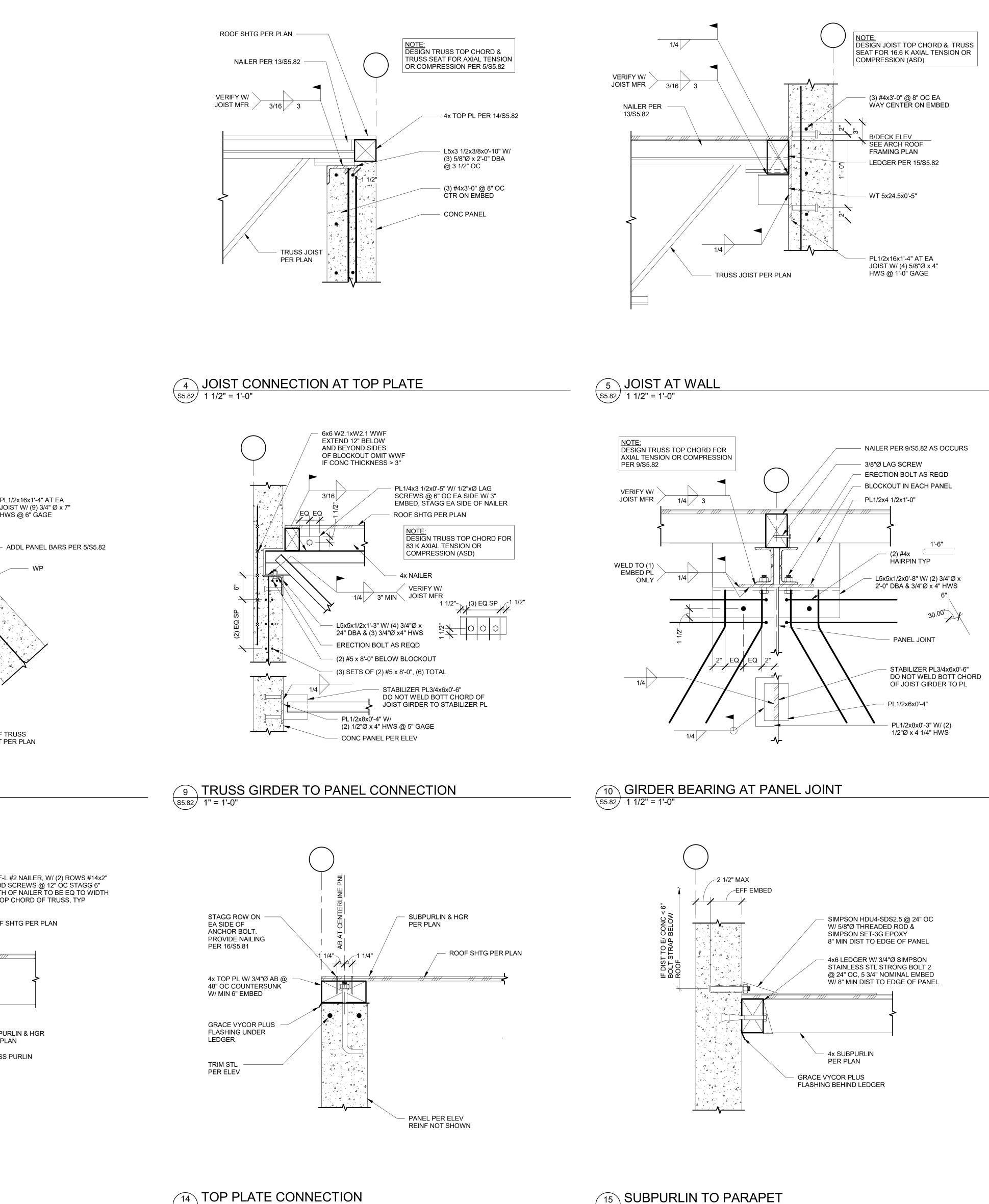


8 JOIST AT SKEWED WALL \$5.82 1 1/2" = 1'-0"



S5.82 1 1/2" = 1'-0"

(13) SUBPURLIN AT PURLIN S5.82 1 1/2" = 1'-0"



VERIFY W/



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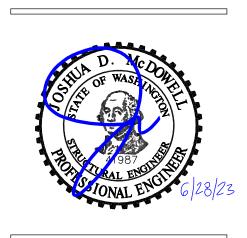
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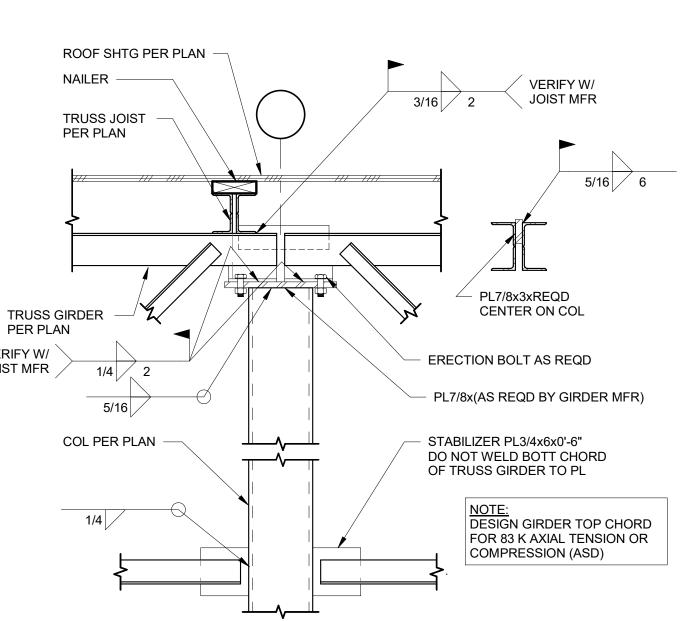
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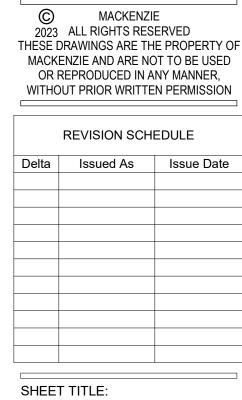
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(15) SUBPURLIN TO PARAPET S5.82 1 1/2" = 1'-0"





TILT DETAILS

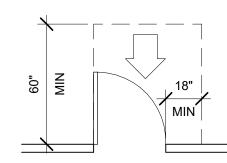
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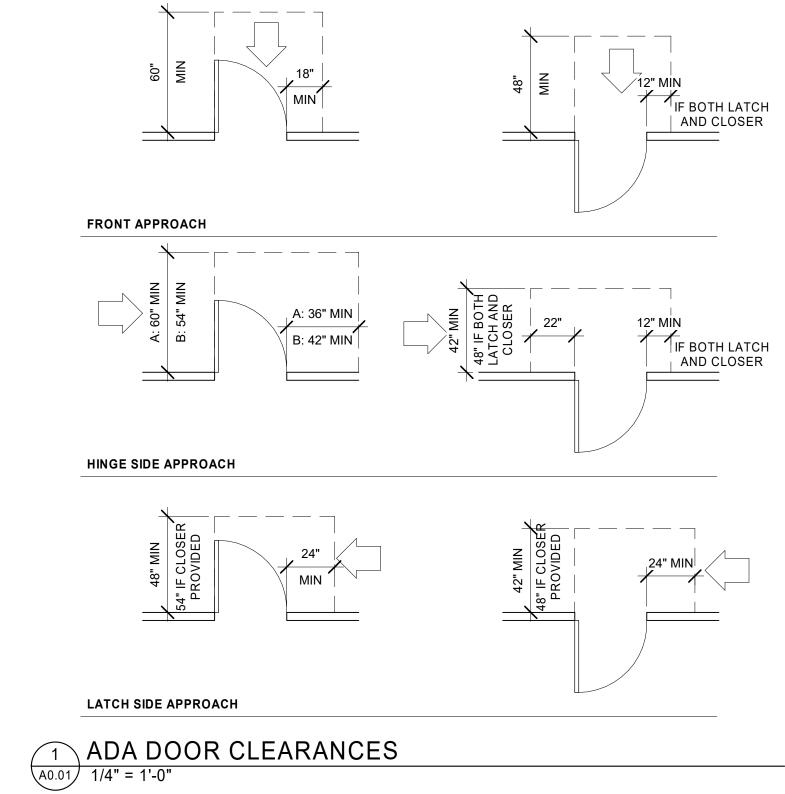


20 TRUSS GIRDER AT COLUMN \$5.82 1" = 1'-0"

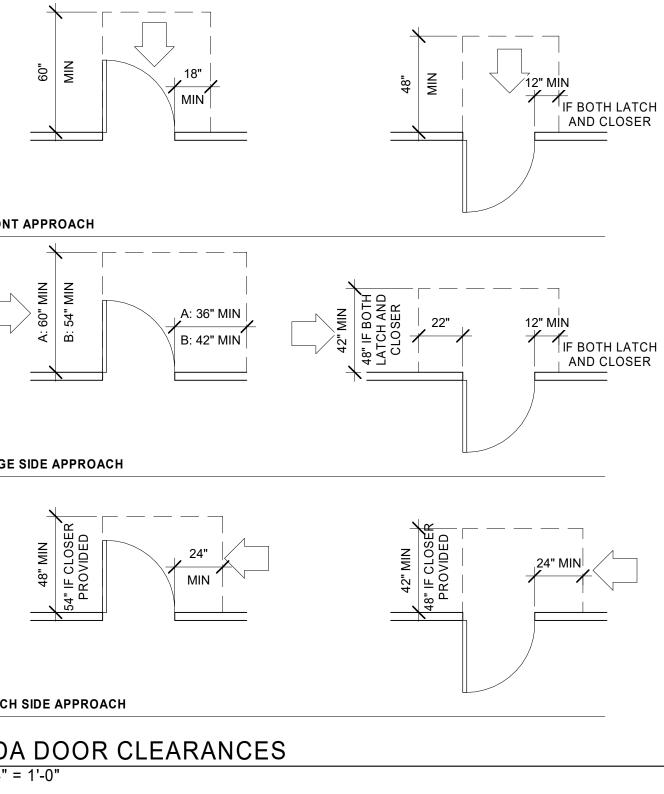
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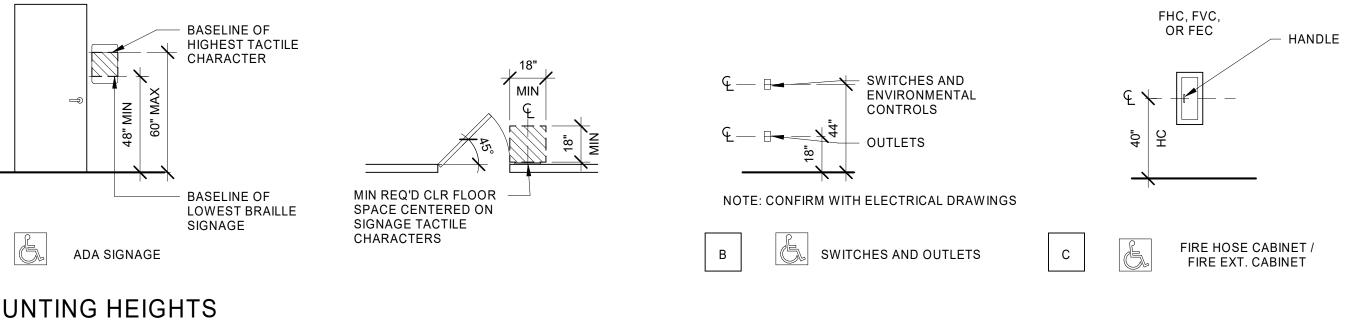
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HINGE SIDE APPROACH





A ADA SIGNAGE 2 ADA MOUNTING HEIGHTS A0.01 1/4" = 1'-0"

ARCHITECTURAL LEGEND

| ANNOTATION SYMBOLS | |
|--|-----------------------|
| | DETAIL # |
| ELEVATION KEY MARK | A2.10 |
| | DETAIL # |
| PARTIAL/ENLARGED ELEVATION KEY MARK | A2.10 OPEN ARROW |
| | SHEET # |
| | 1 DETAIL # |
| INTERIOR ELEVATION KEY MARK | A4.10 FILLED ARROW |
| | SHEET # |
| | DETAIL # OPT. NOTE |
| BUILDING SECTION KEY MARK | A101 FILLED ARROW |
| | SHEET # |
| | DETAIL # OPT. NOTE |
| WALL SECTION KEY MARK | 1 OPEN ARROW |
| | SHEET # |
| | |
| ROOM/SPACE IDENTIFICATION | |
| | SPACE # |
| DOOR NUMBER SYMBOL | (101) |
| WINDOW TYPE SYMBOL | Â |
| | |

| FLOOR/ROOF PLAN SYMBOLS | |
|--|------------------|
| DOWNSPOUT LOCATION | \odot DS |
| FLOOR DRAIN | \odot FD |
| CLEAN OUT | \circ CO |
| FIRE EXTINGUISHER | • |
| DOCK HIGH OVERHEAD DOOR | |
| DRIVE IN OVERHEAD DOOR | \bigtriangleup |
| CONTROL JOINT | CJ |
| CONSTRUCTION JOINT | CONST JT |
| POUR STRIP | PS |
| MISC. SYMBOLS | |
| SANITARY SEWER LINE (DESIGN/BUILD PLUMBING) | |
| WALL TYPES | |
| 1HR RATED WALL | |
| 2HR RATED WALL | |
| CONCRETE TILT-UP PANEL, SEE STRUCTURAL | |
| INSULATED HM DOOR | |
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ARCHITECTURAL GENERAL NOTES

A. OVERALL FLOOR PLANS ARE INTENDED TO IDENTIFY ENTIRE FLOOR AREA. SEE INDIVIDUAL AREA PLANS FOR SPECIFIC DIMENSIONS, DETAILING, PARTITION TYPES, AND ADDITIONAL INFORMATION. B. PROVIDE 32'-0" CLEAR MINIMUM TO BOTTOM OF STRUCTURE BETWEEN GRID A & GRID D, MECHANICAL DUCTS, LIGHTING, SPRINKLERS, ETC. C. ALL PARTITIONS TO BE TYPE A UNLESS OTHERWISE NOTED. ROOMS ARE TO RECEIVE THE SAME WALL TYPE UNLESS NOTED OTHERWISE. D. ALL WALLS ARE FULL HEIGHT TO STRUCTURE OR UNDERSIDE OF ROOF/FLOOR DECK ABOVE UNLESS OTHERWISE NOTED. WHERE TOP OF WALL MEETS UNDERSIDE OF ROOF DECK, PROVIDE DEFLECTION HEAD AS REQUIRED. REFERENCE BUILDING ELEVATIONS FOR EXTERIOR WINDOW TYPE DESIGNATION. REFERENCE DOOR SCHEDULE FOR DOOR TYPE DESIGNATION AND ADD'L INFORMATION. SEE CODE ANALYSIS PLANS FOR FIRE EXTINGUISHER LOCATIONS. PROVIDE BLOCKING AS REQUIRED ADJACENT TO FIRE EXTINGUISHERS FOR OWNER INSTALLED AED STATIONS COORDINATE ALL EXTERIOR WALL PENETRATIONS AMONG AFFECTED DISCIPLINES. WATERPROOFING SYSTEMS AND THEIR INSTALLATIONS SHALL BE SUITABLE FOR THEIR INTENDED PURPOSES. PROVIDE APPROPRIATE AND COMPLETE SEALANT OF ALL PENETRATIONS THROUGH EXTERIOR ASSEMBLIES. SEAL VOIDS BETWEEN SLEEVES, CONDUITS, AND OTHER PENETRATIONS WITH APPROPRIATE JOINT SEALANT. CONTRACTOR TO ASSURE PROPER SEALANT OF ALL VOIDS AT OPENINGS AND PENETRATIONS.

EQUIPMENT BY OTHERS, SHOWN FOR REFERENCE ONLY. CONTRACTOR TO COORDINATE WALL MOUNTED FURNITURE, INCLUDING BUT NOT LIMITED TO, CABINETRY, PROJECTION SCREENS, WHITE BOARDS, TELEVISIONS, ETC. AND PROVIDE NECESSARY BLOCKING AS REQUIRED. 0. CONTRACTOR SHALL COORDINATE DELIVERY AND INSTALLATION OF OWNER FURNISHED EQUIPMENT WITH THE OWNER.

P. ALL DIMENSIONS TO FACE OF FINISH, CENTERLINE OF COLUMN UNLESS OTHERWISE NOTED. ALIGN FINISHES WHERE INDICATED. WALL THICKNESSES ARE ACTUAL UNLESS OTHERWISE NOTED. DIMENSIONS MARKED "CLR" ARE FROM FINISH SURFACE TO FINISH SURFACE. DIMENSIONS WITH THIS MARK TAKE PRIORITY OVER ADJACENT DIMENSIONS. DIMENSIONS ADJACENT TO LATCH SIDE OF DOORS INDICATE REQUIRED CLEARANCES BETWEEN CLEAR DOOR OPENING AND ADJACENT FINISH

S. ALL DIMENSIONS SHOWN AS PLUS/MINUS (+/-) ARE FOR GENERAL LAYOUT AND REFERENCE ONLY. T. DOORS NOT DIMENSIONED ARE TO BE LOCATED 4" FROM FACE OF WALL TO OUTSIDE EDGE OF JAMB. ALL RATED CONSTRUCTION ASSEMBLIES EXTEND FROM FLOOR STRUCTURE TO UNDERSIDE OF STRUCTURE AND DECKING ABOVE UNLESS OTHERWISE NOTED. V. PROVIDE TYPE 'X' GYPSUM BOARD AT ALL FIRE RATED WALLS AND PARTITIONS. SEE CODE SUMMARY DRAWINGS AND FLOOR PLANS FOR SCOPE OF FIRE RATED WALLS. ALL PENETRATIONS AND VOIDS THROUGH FIRE-RATED ASSEMBLIES TO BE FIRE STOPPED WITH APPROVED MATERIALS. PROVIDE FIRE BLOCKING AS REQUIRED.

STAIRS ARE DESIGN-BUILD BY CONTRACTOR. SEE DRAWINGS FOR TREADS, RISERS, RAILING, AND DIMENSIONAL REQUIREMENTS. SEE SPECIFICATIONS FOR DESIGN REQUIREMENTS. PROVIDE SHOP DRAWINGS WITH CALCULATIONS PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN WASHINGTON FOR REVIEW BY ARCHITECT. SEE STRUCTURAL DRAWINGS FOR FRAMING. AA. SEE STRUCTURAL DRAWINGS FOR PANEL/WALL THICKNESS.

PAINT ALL EXPOSED STEEL. BB. ALL EXPOSED EXTERIOR STEEL TO BE GALVANIZED. CC.



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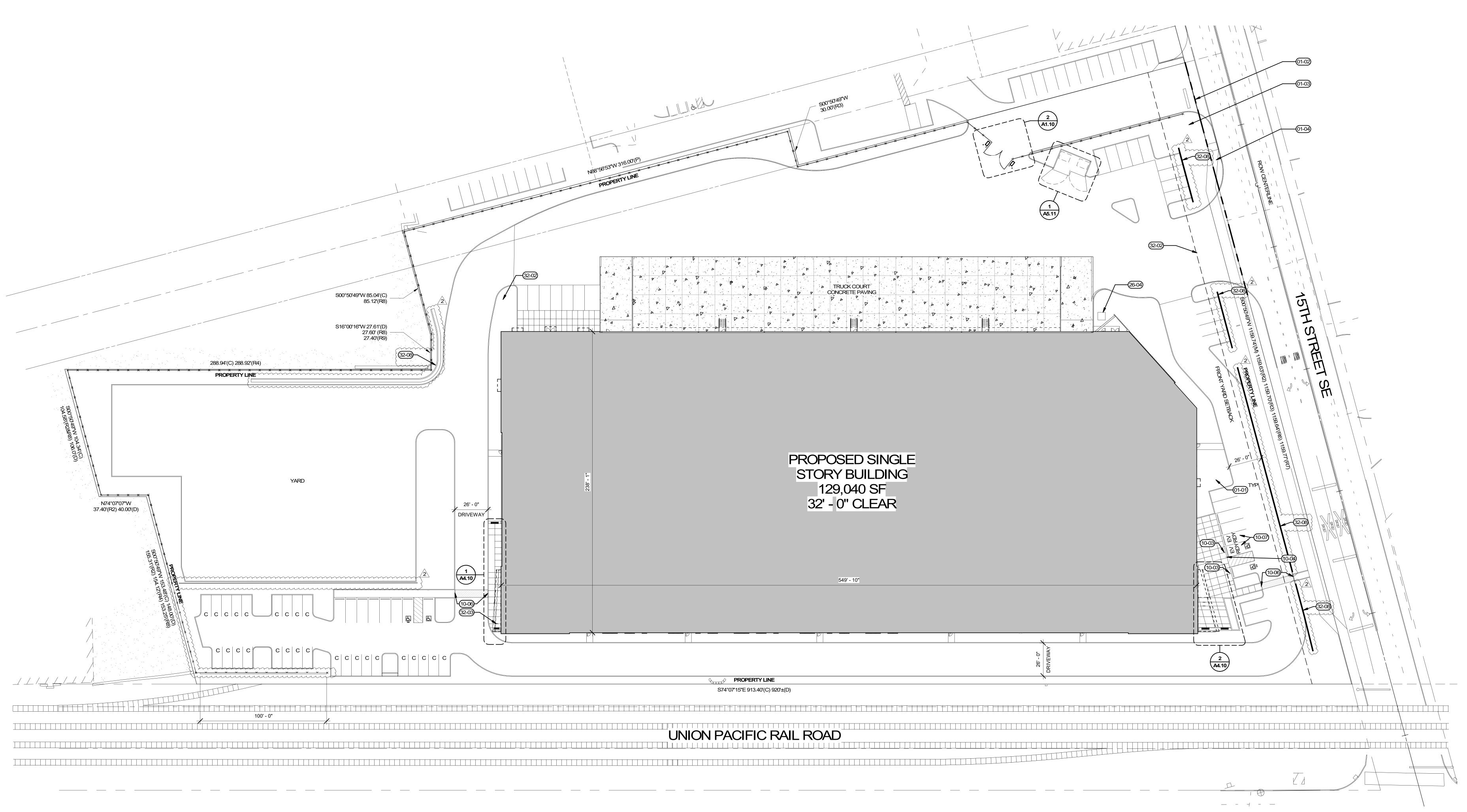
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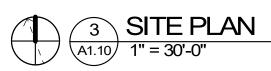
GENERAL NOTES AND SYMBOLS

SHEET



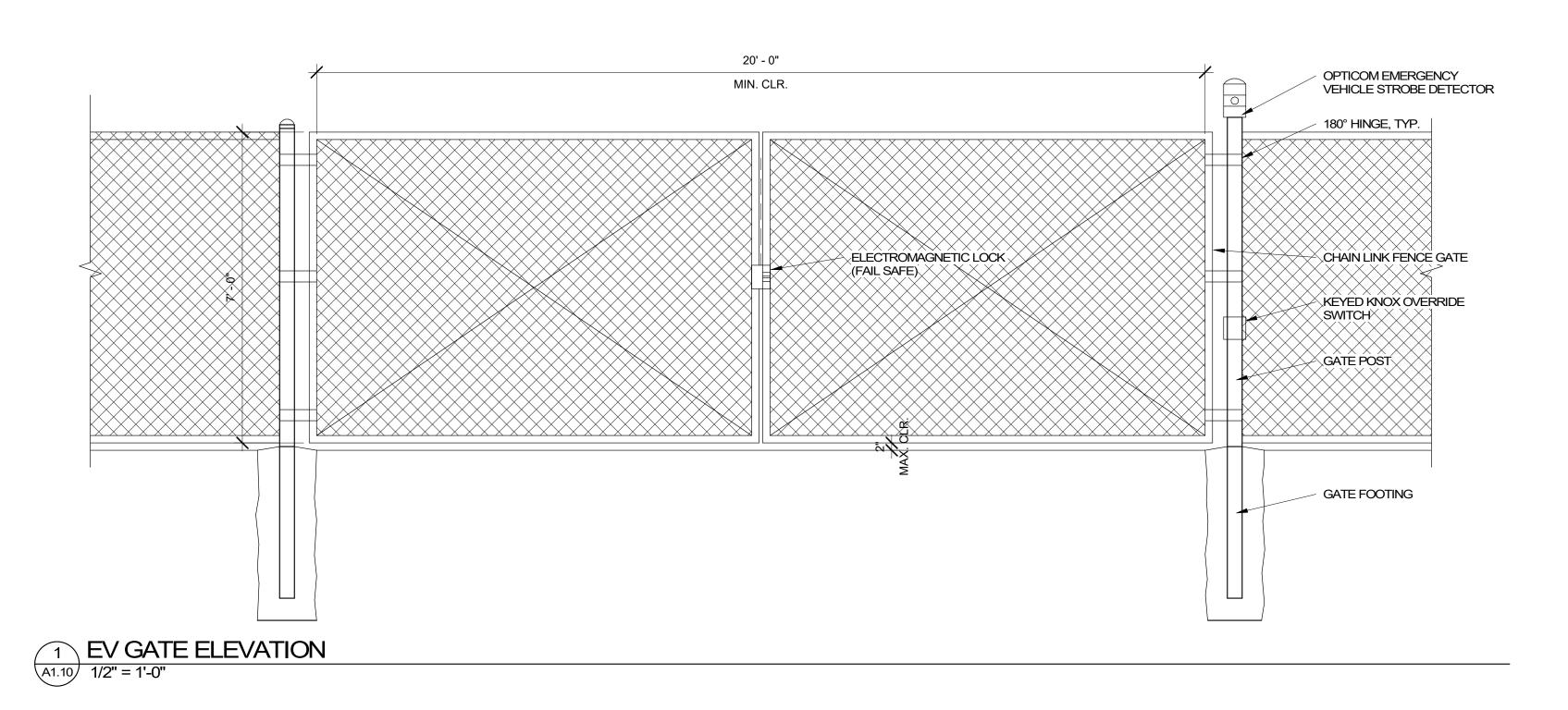
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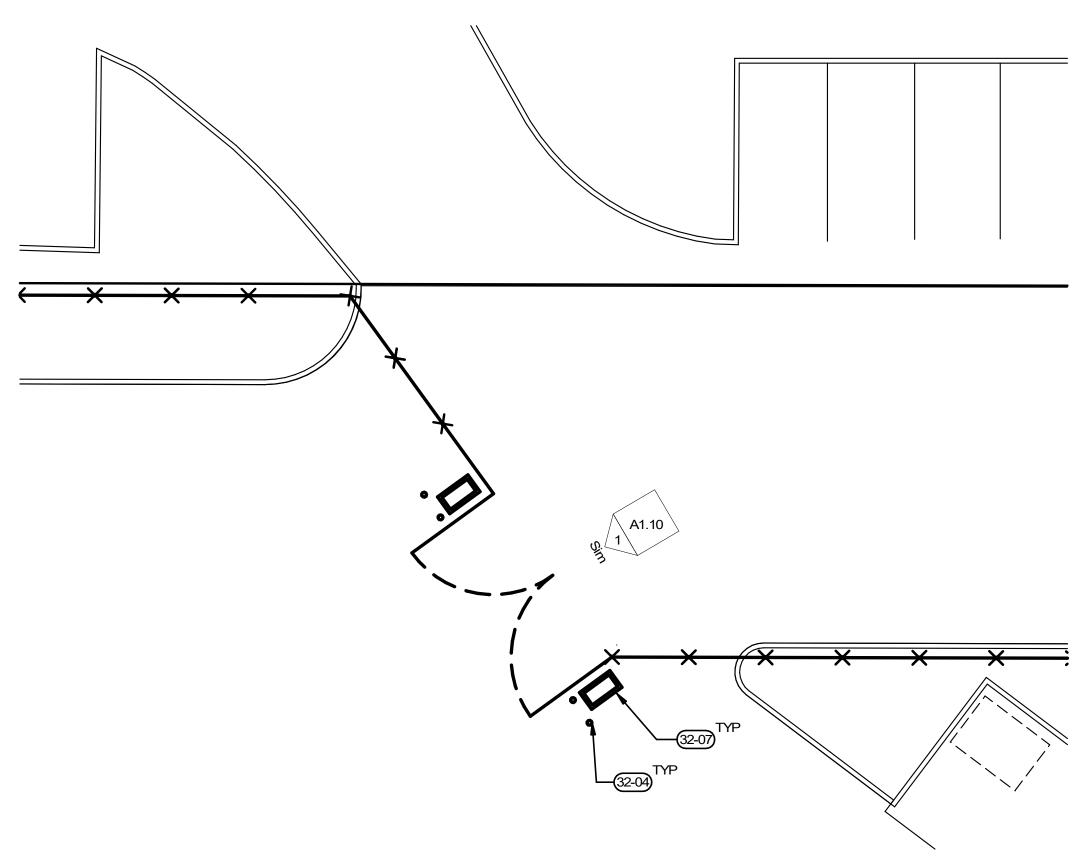




<u>KEYNOTES</u>

| 01-01 | REFER TO LANDSCAPE PLANS IN SITE PERMIT DOCUMENTS FOR LANDSCAPE BUFFERS IN THIS AREA. |
|----------------|--|
| 01-02 | EXISTING PROPERTY LINE |
| 01-03 | PROPOSED NEW PROPERTY LINE |
| 01-04 | NEW SIDEWALK - REFER TO CIVIL DRAWINGS. |
| 10-03 | ADA PARKING SIGN. |
| 10-04 | NO PARKING SIGN. |
| 10-06 | DETECTABLE WARNINGS. |
| 10-07 | EV READY STALL. |
| 26-04 | TRANSFORMER |
| 32-02 | LANDSCAPE ISLAND. |
| 32-03 | (2) BIKE RACKS - SEE DETAILS 8 & 9/A5.13. |
| 32-04 | NEW BOLLARD- PAINT SAFETY YELLOW |
| 32-07 | NEW SECURITY GATE FOR FIRE APPARATUS ACCESS PER IFC 503.6. EMERGENCY VEHICLE GATE PER ASTM F 2200 W/UL 325 AUTOMATIC OPERATORS W/BATTERY BACKUP, KNOX OVERRIDE SWITCH, AND OPTICOM SENSOR FOR EMERGENCY VEHICLE PRE-EMPTION SYSTEM. OPTICOM SYSTEM SHALL BE COMPATIBLE WITH GTT EMITTER PRODUCTS AND CODES. SYSTEM TO BE FULLY COMPATIBLE WITH CITY OF PUYALLUP FIRE DEPARTMENT SITE ACCESS REQUIREMENTS AND THEIR SYSTEMS. |
| { 32-08 | RETAINING WALL, SEE CIVIL PERMIT 2 |





2 SITE PLAN- EV GATE A1.10 1" = 10'-0"



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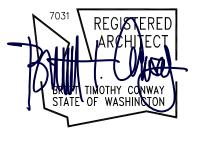
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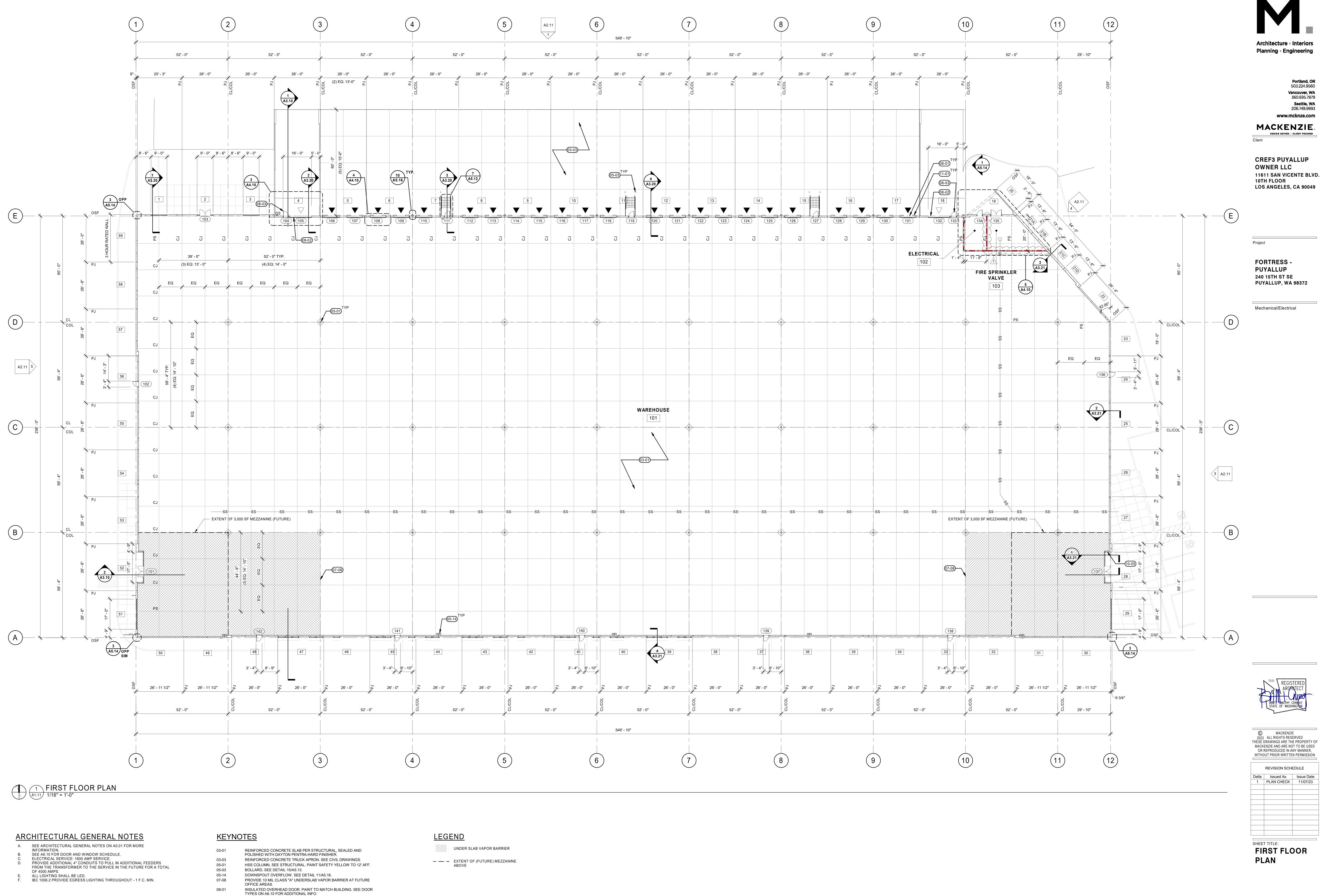
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SHEET TITLE:

SHEET



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INSULATED OVERHEAD DRIVE-IN DOOR. PAINT TO MATCH. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. INSULATED HM DOOR. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. PROVIDE AND INSTALL KNOXBOX - VERIFY WITH FIRE DEPARTMENT.

08-02

08-03 10-05

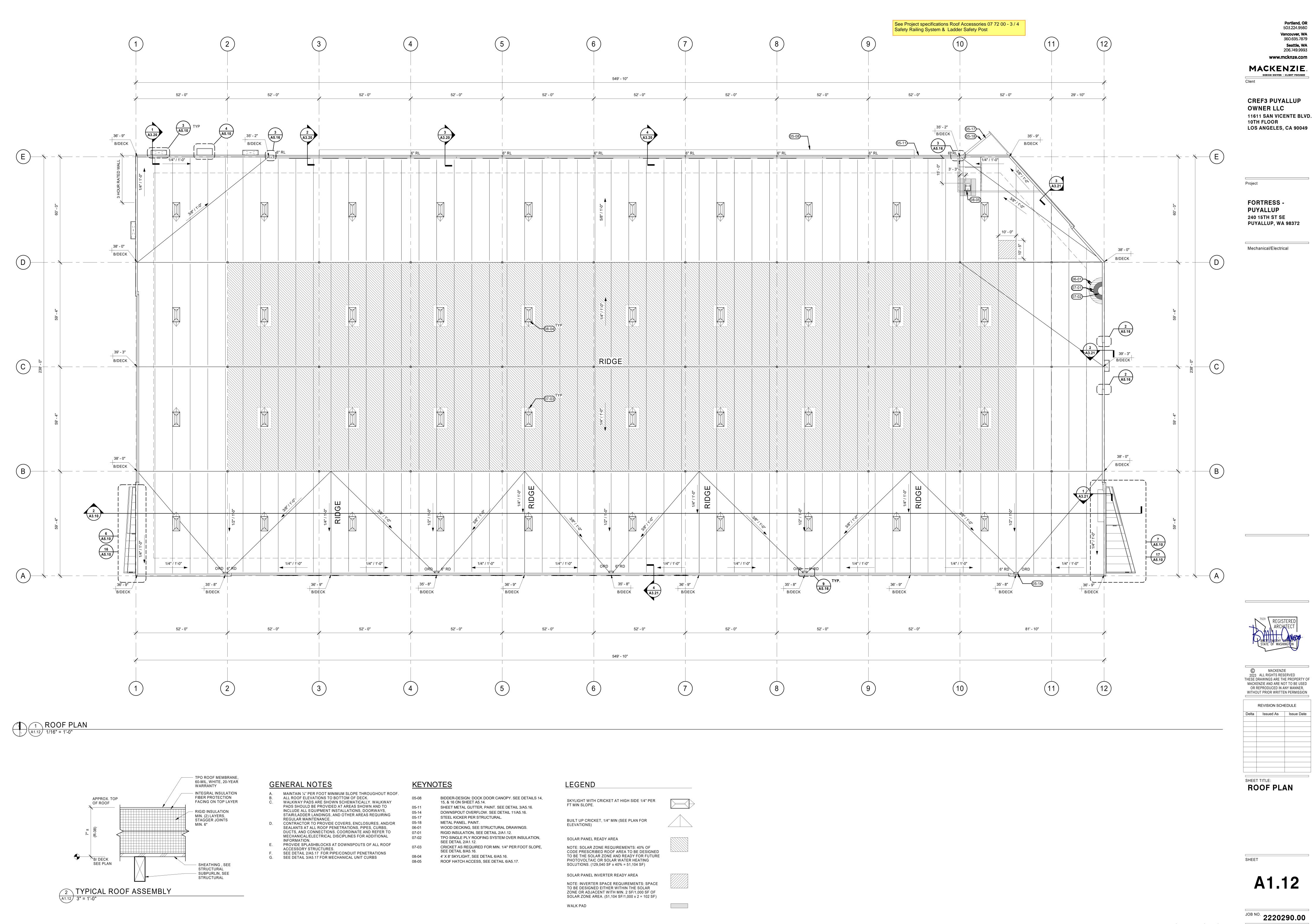
11-01

DOCK DOOR BUMPER.

SHEET

A1.11

JOB NO. **2220290.00 PERMIT SET 6/28/2023** Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 11/20/2023 2:15:08 PM 1/16" = 1'-0"

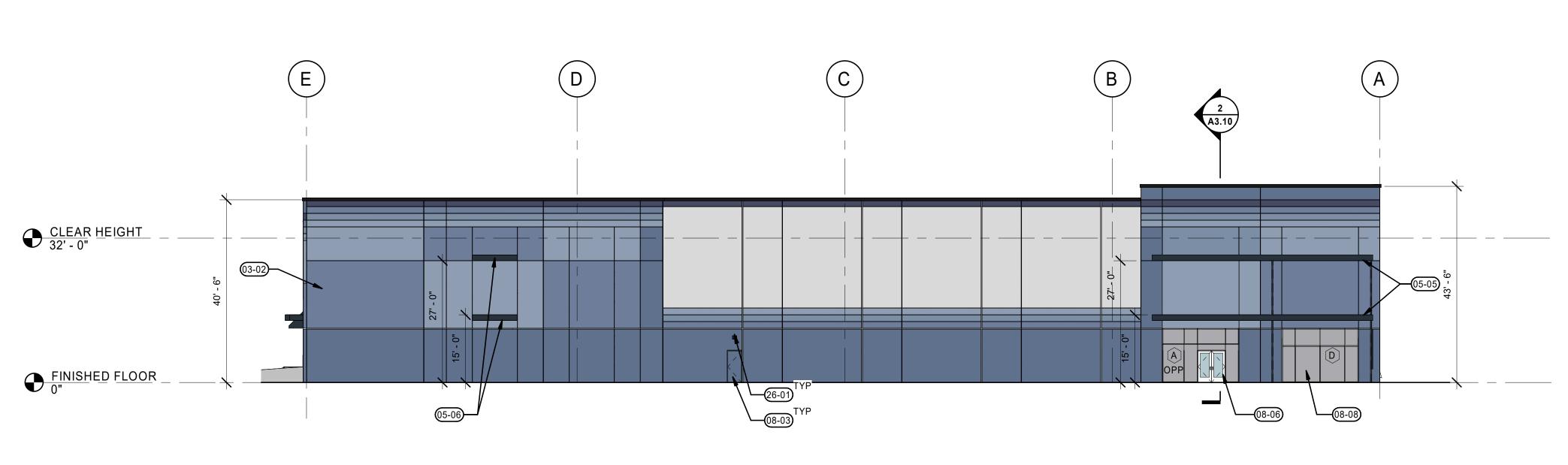


| R FOOT MINIMUM SLOPE THROUGHOUT ROOF. TIONS TO BOTTOM OF DECK. ARE SHOWN SCHEMATICALLY. WALKWAY E PROVIDED AT AREAS SHOWN AND TO UIPMENT INSTALLATIONS, DOORWAYS, ANDINGS, AND OTHER AREAS REQUIRING | |
|---|--|
| ENANCE. D PROVIDE COVERS, ENCLOSURES, AND/OR L ROOF PENETRATIONS, PIPES, CURBS, NNECTIONS. COORDINATE AND REFER TO ECTRICAL DISCIPLINES FOR ADDITIONAL | |
| HBLOCKS AT DOWNSPOUTS OF ALL ROOF RUCTURES. 17 FOR PIPE/CONDUIT PENETRATIONS 17 FOR MECHANICAL UNIT CURBS | |

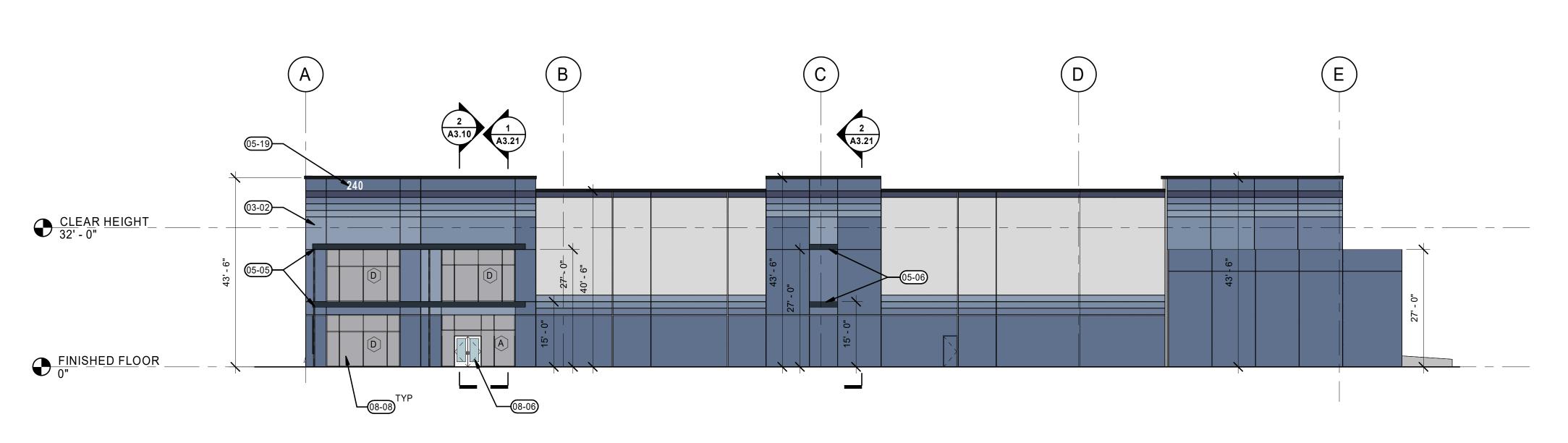


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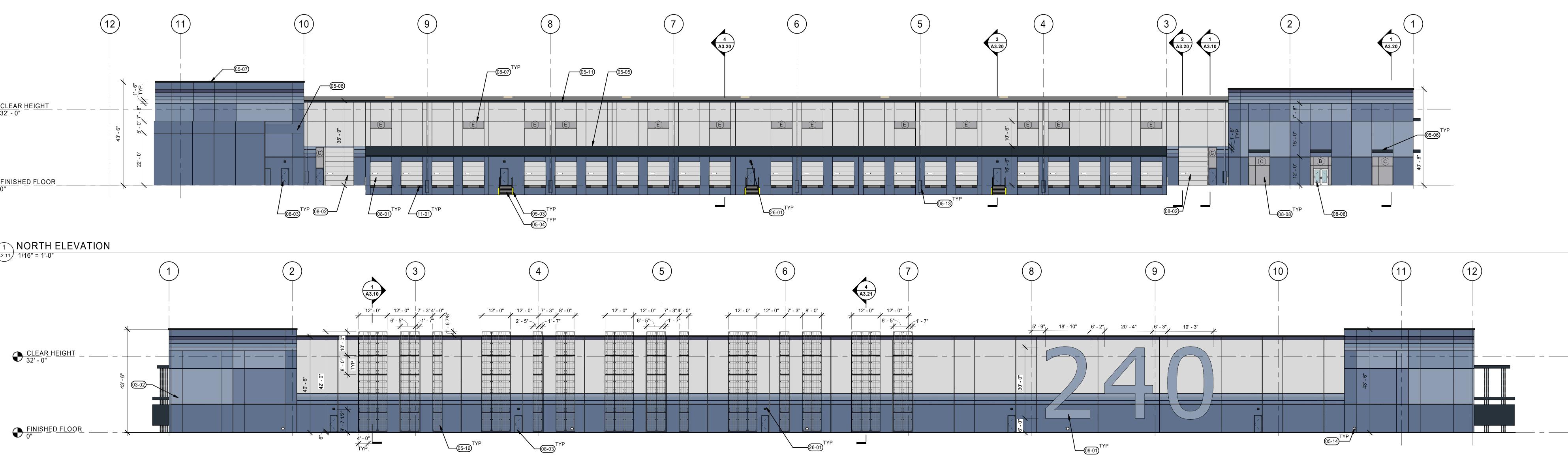
5 WEST ELEVATION A2.11 1/16" = 1'-0"

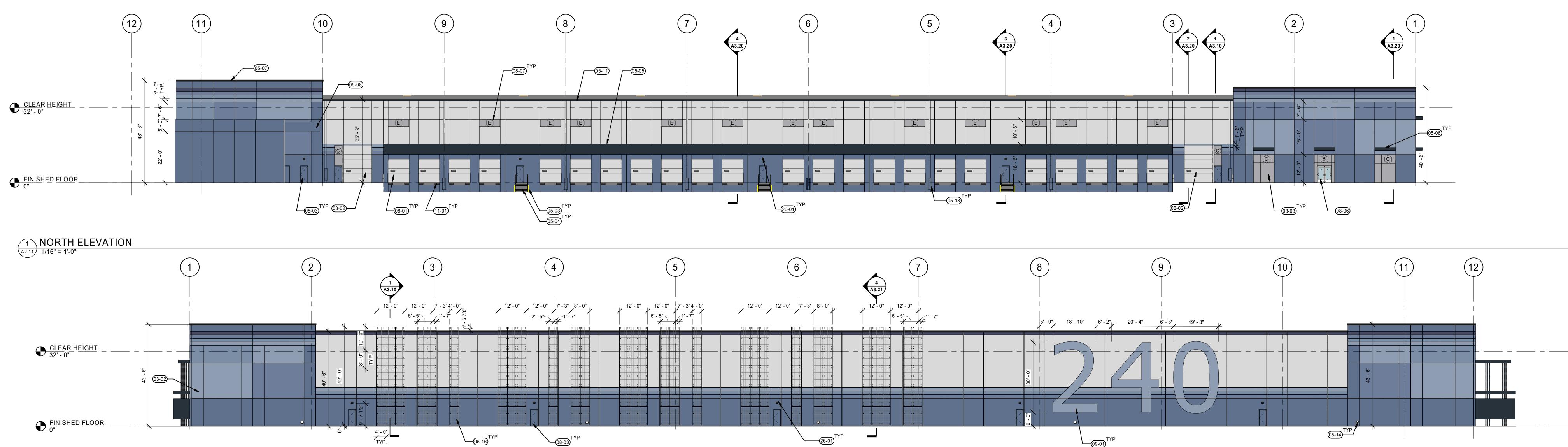


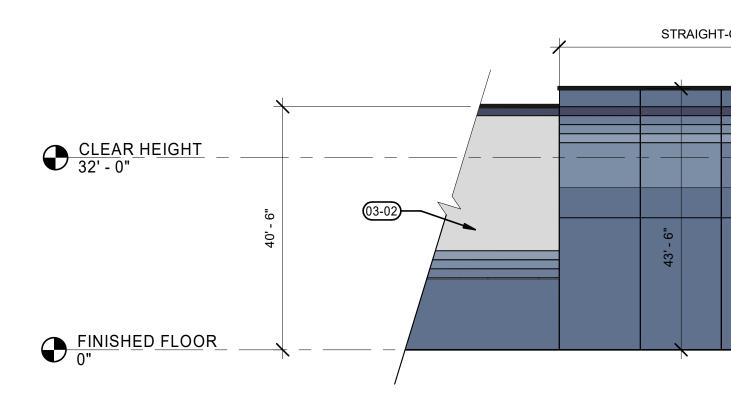
3 EAST ELEVATION A2.11 1/16" = 1'-0"



2 SOUTH ELEVATION A2.11 1/16" = 1'-0"







4 NORTHEAST ELEVATION A2.11 1/16" = 1'-0"

<u>KEYNOTES</u>

| 03-02 | TILT-UP CONCRETE WALL, SEE STRUCTURAL. NO PAINT ON INTERIOR WALL. |
|-------|---|
| 05-03 | BOLLARD, SEE DETAIL 15/A5.13. |
| 05-04 | STEEL ACCESS STAIR, BY DESIGN BUILD. |
| 05-05 | METAL CANOPY. SEE SHEET DETAILS 9, 15, 18, & 19 ON SHEET A5.10. |
| 05-06 | METAL ACCENT DETAIL PROJECTING FROM WALL. SEE DETAILS 9, 13, & 18 ON SHEET A5.10. |
| 05-07 | METAL COPING. SEE DETAIL 1/A5.16. |
| 05-08 | BIDDER-DESIGN: DOCK DOOR CANOPY. SEE DETAILS 14, 15, & 16 ON SHEET A5.14. |
| 05-11 | SHEET METAL GUTTER, PAINT. SEE DETAIL 3/A5.16. |
| 05-13 | DOWNSPOUT GUARD, PAINT TO MATCH BUILDING BEHIND. SEE DETAIL 7/A5.14. |
| 05-14 | DOWNSPOUT OVERFLOW. SEE DETAIL 11/A5.16. |
| 05-16 | TRELLIS PANEL SYSTEM. SEE DETAIL 16/A5.13. |
| 05-19 | FIRE DEPARTMENT BUILDING ADDRESS. 24" TALL AND 1/2" THICK METAL LETTERS, COLOR WHITE. |
| 08-01 | INSULATED OVERHEAD DOOR. PAINT TO MATCH BUILDING. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. |
| 08-02 | INSULATED OVERHEAD DRIVE-IN DOOR. PAINT TO MATCH. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. |
| 08-03 | INSULATED HM DOOR. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. |
| 08-06 | STOREFRONT ENTRY. |
| 08-07 | CLERESTORY GLAZING. |
| 08-08 | CLEAR ANODIZED ALUMINUM STOREFRONT SYSTEM. |
| 09-01 | BUILDING ADDRESS, PAINTED P-TBD. |
| 11-01 | DOCK DOOR BUMPER. |
| 26-01 | WALL MOUNTED EGRESS LIGHT BY ELECTRICAL. |



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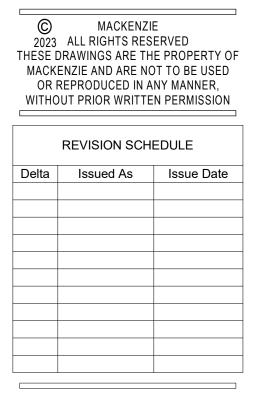
| PAINT | LEGEND |
|-------|--------|
| | |



PAINT - PT SW 9179 ANCHORS AWEIGH

NOTE: EXTERIOR WALL PAINT: LOXON XP OR ALERNATE (ELASTOMERIC)





SHEET TITLE: BUILDING ELEVATIONS

SHEET



JOB NO. **2220290.00**

PERMIT SET 6/28/2023 Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/28/2023 2:47:20 PM As indicated

5 WEST ELEVATION A2.12 1/16" = 1'-0"



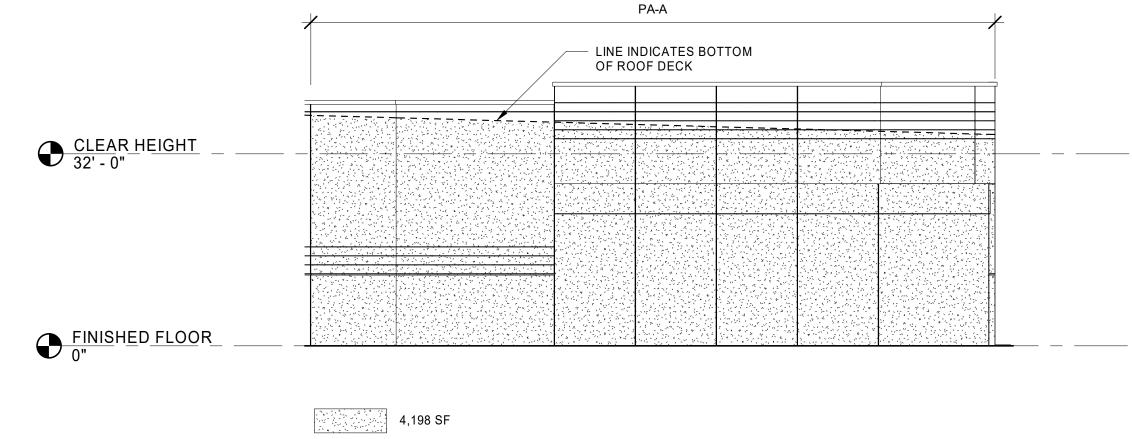
| 10 | 9 | 8 | 7 PA-C | 6 | 5 | 4 | 3 | 2 PA-A | |
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(12)

(11)

| 3 | 4 | 5 | 6 PA-A | 7 | 8 | 9 | 10 |
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4 NORTHEAST ELEVATION A2.12 1/16" = 1'-0"





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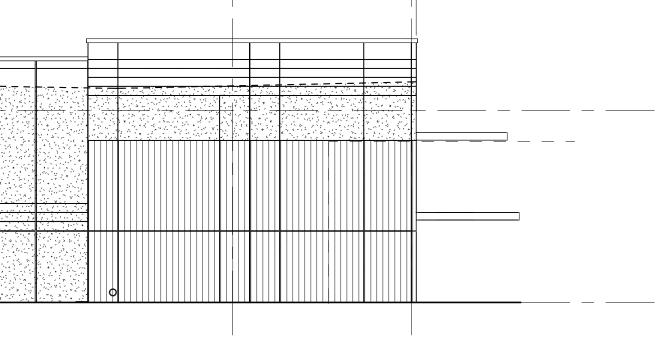
CREF3 PUYALLUP OWNER LLC 11611 SAN VICENTE BLVD. 10TH FLOOR LOS ANGELES, CA 90049

Project

FORTRESS -PUYALLUP 240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical

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GENERAL NOTES

SEE STRUCTURAL DRAWINGS FOR PANEL THICKNESS WALL INSULATION TO BE INSTALLED AS PART OF FUTURE TENANT IMPROVEMENT, SHOWN FOR CODE COMPLIANCE ONLY PA-A 8" PANEL - SEE STRUCTRUAL DRAWINGS PA-B 8-3/4" PANEL - SEE STRUCTRUAL DRAWINGS

PA-C 9-1/2" PANEL - SEE STRUCTURAL DRAWINGS PA-D 10" PANEL - SEE STRUCTURAL DRAWINGS

NOTE: THIS PROJECT IS A SEMI-HEATED BUILDING WITHOUT ELECTRIC RESISTANCE HEATING, THEREFORE THE FOLLOWING WA STATE ENERGY CODE PROVISION APPLIES: "SECTION 402.1.1.2 - SEMI-HEATED SPACES HEATED BY MECHANICAL SYSTEMS THAT DO NOT INCLUDE ELECTRIC RESISTANCE HEATING EQUIPMENT ARE NOT REQUIRED TO COMPLY WITH THE OPAQUE WALL INSULATION PROVISIONS OF SECTION C402.2.3 FOR WALL THAT SEPARATE SEMI-HEATED SPACES FROM THE EXTERIOR OR LOW ENERGY SPACES.

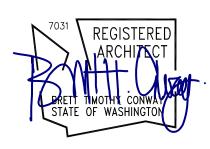
BASE AND ADJUSTED "U" VALUES

OVERHEAD DOOR: HM DOOR: U=0.25 U=0.37 MAX BASE U=0.29 SHGC=0.31 GLASS: BASIS OF DESIGN: INSULATED SOLAR GREY W/ SOLARBAN 60, LOW E

ADJUSTED U (REDUCED FOR "ASSEMBLY VALUE") GLASS AT STOREFRONT (91% GLASS) U=0.38 MAX SHGC=0.295 GLASS AT TRANSOM (83.3% GLASS) U=0.38 MAX SHGC=0.27 GLASS SF DOOR (69% GLASS) U=0.60 MAX SHGC=0.24

LEGEND

| CONCRETE WALL | 46,591 SF |
|--|-----------|
| CONCRETE WALL WITH METAL STUD FURRING & BATT INSULATION U=0.055 (R-13) | 4,664 SF |
| HOLLOW METAL DOORS U=0.37 | 356 SF |
| INSULATED OVERHEAD DOORS U=0.25 | 2,456 SF |
| STOREFRONT GLAZING U=0.38 | 1,422 SF |
| CLERESTORY WINDOWS U=0.29 | 351 SF |
| TRANSOM WINDOWS U=0.38 | 60SF |
| STOREFRONT DOORS U=0.60 | 126 SF |



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| REVISION SCHEDULE | | | | | | | | | |
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SHEET TITLE: BUILDING INSULATION ELEVATIONS

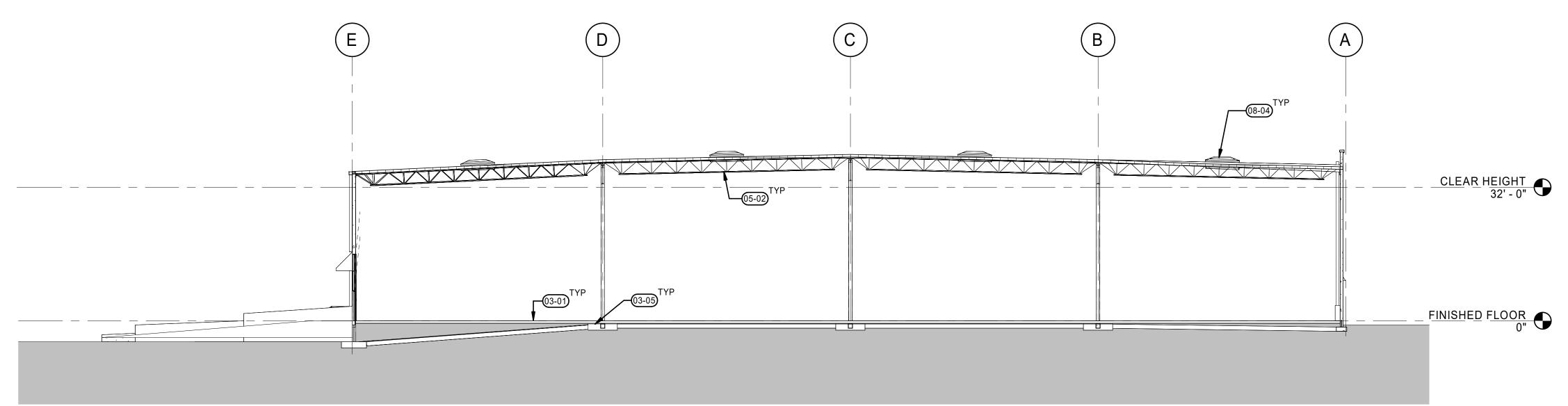
SHEET

A2.12

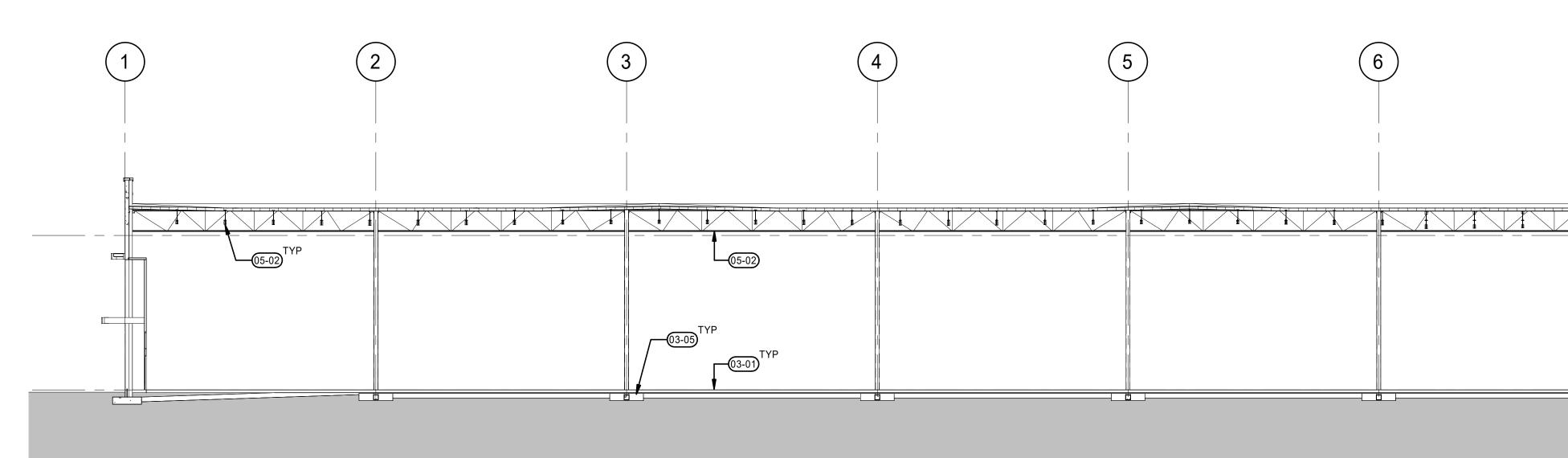
PERMIT SET 6/28/2023

JOB NO. **2220290.00**

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1 WALL SECTION A3.10 1/16" = 1'-0"



2 WALL SECTION A3.10 1/16" = 1'-0"

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<u>KEYNOTES</u>

| 03-01 | REINFORCED CONCRETE SLA SEALED AND POLISHED WITH FINISHER. |
|-------|--|
| 03-05 | CONCRETE FOOTING, SEE ST REINFORCING. |
| 05-02 | STEEL JOIST FRAMING, SEE S ADDITIONAL INFO. |
| 08-04 | 4' X 8' SKYLIGHT, SEE DETAIL |
| | |

SLAB PER STRUCTURAL, TH DAYTON PENTRA-HARD STRUCTURAL FOR SIZE AND E STRUCTURAL FOR AIL 6/A5.16.

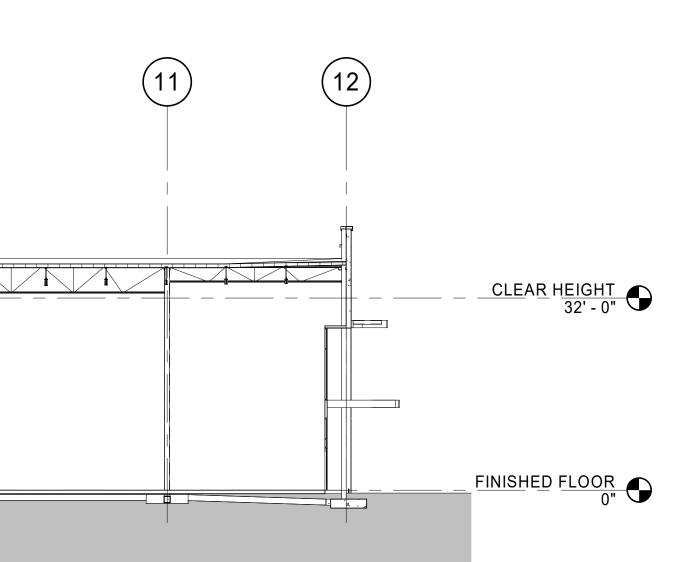
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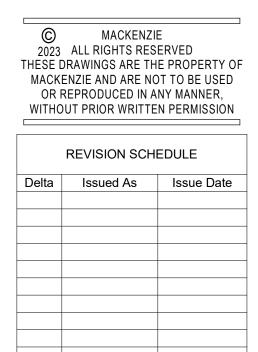
Project

> FORTRESS -PUYALLUP 240 15TH ST SE PUYALLUP, WA 98372



Mechanical/Electrical





SHEET TITLE: BUILDING SECTIONS

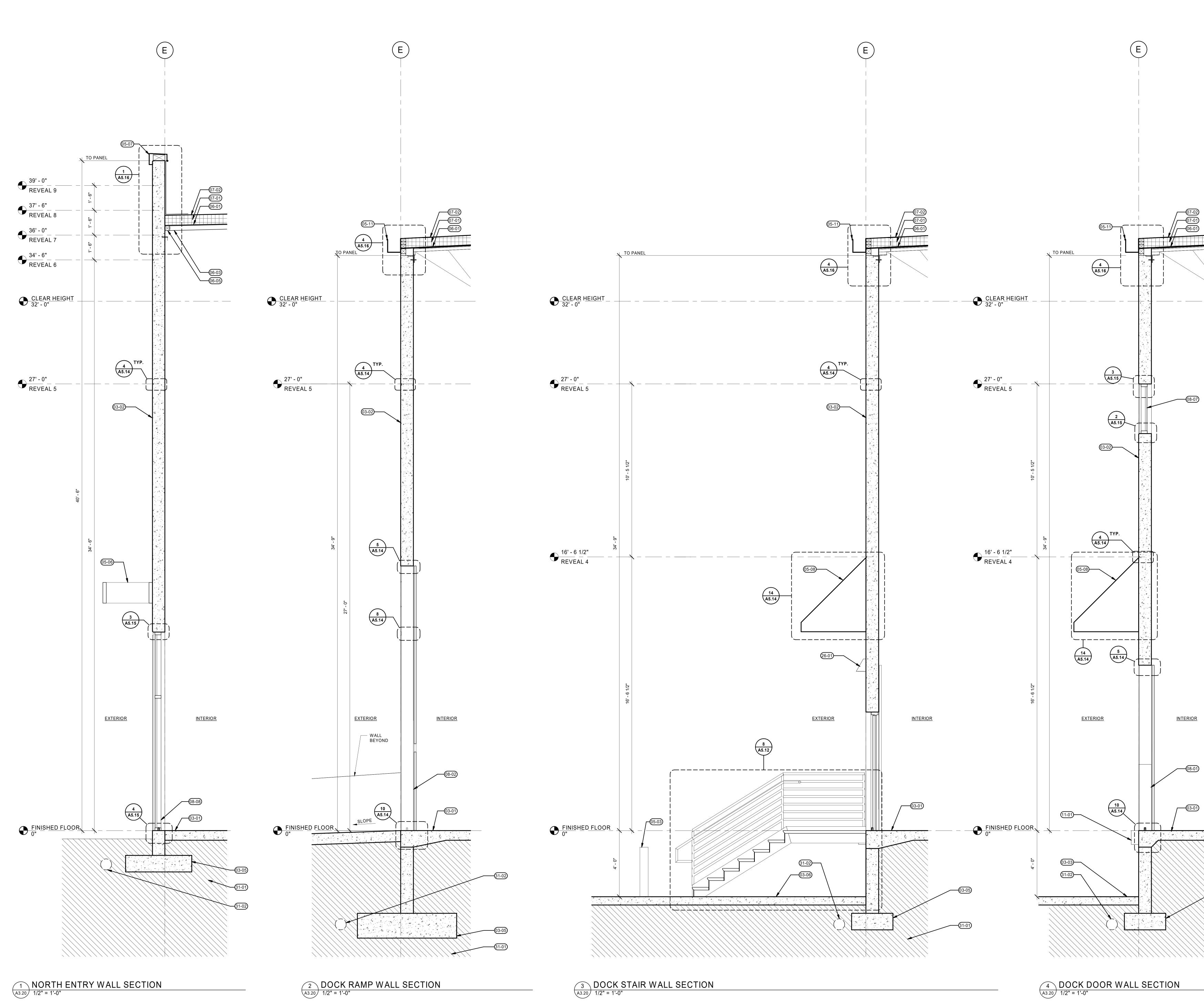
SHEET



 PERMIT SET
 6/28/2023

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 1/16" = 1'-0"



3 DOCK STAIR WALL SECTION A3.20 1/2" = 1'-0"



CANOPY GENERAL NOTES

- A. VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 B. SEE STRUCTURAL DRAWINGS FOR PANEL THICKNESS.

<u>KEYNOTES</u>

| 03-01 | REINFORCED CONCRETE SLAB PER STRUCTURAL, SEALED AND POLISHED WITH DAYTON PENTRA-HARD FINISHER. |
|-------|--|
| 03-02 | TILT-UP CONCRETE WALL, SEE STRUCTURAL. NO PAINT ON INTERIOR WALL. |
| 03-03 | REINFORCED CONCRETE TRUCK APRON. SEE CIVIL DRAWINGS. |
| 03-05 | CONCRETE FOOTING, SEE STRUCTURAL FOR SIZE AND REINFORCING. |
| 03-06 | CONCRETE PAVING. |
| 05-03 | BOLLARD, SEE DETAIL 15/A5.13. |
| 05-06 | METAL ACCENT DETAIL PROJECTING FROM WALL. SEE DETAILS 9, 13, & 18 ON SHEET A5.10. |
| 05-07 | METAL COPING. SEE DETAIL 1/A5.16. |
| 05-08 | BIDDER-DESIGN: DOCK DOOR CANOPY. SEE DETAILS 14, 15, & 16 ON SHEET A5.14. |
| 05-11 | SHEET METAL GUTTER, PAINT. SEE DETAIL 3/A5.16. |
| 06-01 | WOOD DECKING, SEE STRUCTURAL DRAWINGS. |
| 06-03 | SUB-PURLIN, SEE STRUCTURAL |
| 06-05 | LEDGER, SEE STRUCTURAL |
| 07-01 | RIGID INSULATION, SEE DETAIL 2/A1.12. |
| 07-02 | TPO SINGLE PLY ROOFING SYSTEM OVER INSULATION, SEE DETAIL 2/A1.12. |
| 08-01 | INSULATED OVERHEAD DOOR. PAINT TO MATCH BUILDING. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. |
| 08-02 | INSULATED OVERHEAD DRIVE-IN DOOR. PAINT TO MATCH. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. |
| 08-07 | CLERESTORY GLAZING. |
| 08-08 | CLEAR ANODIZED ALUMINUM STOREFRONT SYSTEM. |
| 11-01 | DOCK DOOR BUMPER. |
| 26-01 | WALL MOUNTED EGRESS LIGHT BY ELECTRICAL. |
| 31-01 | REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE PREPARATION FOR CONSTRUCTION. |
| 31-02 | FOOTING DRAINS AS PRESCRIBED BY GEOTECHNICAL REPORT. REFER TO CIVIL DRAWINGS. |



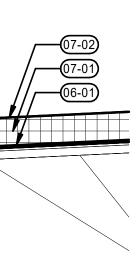
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Project

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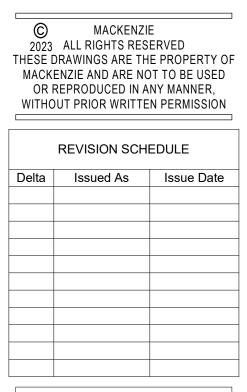
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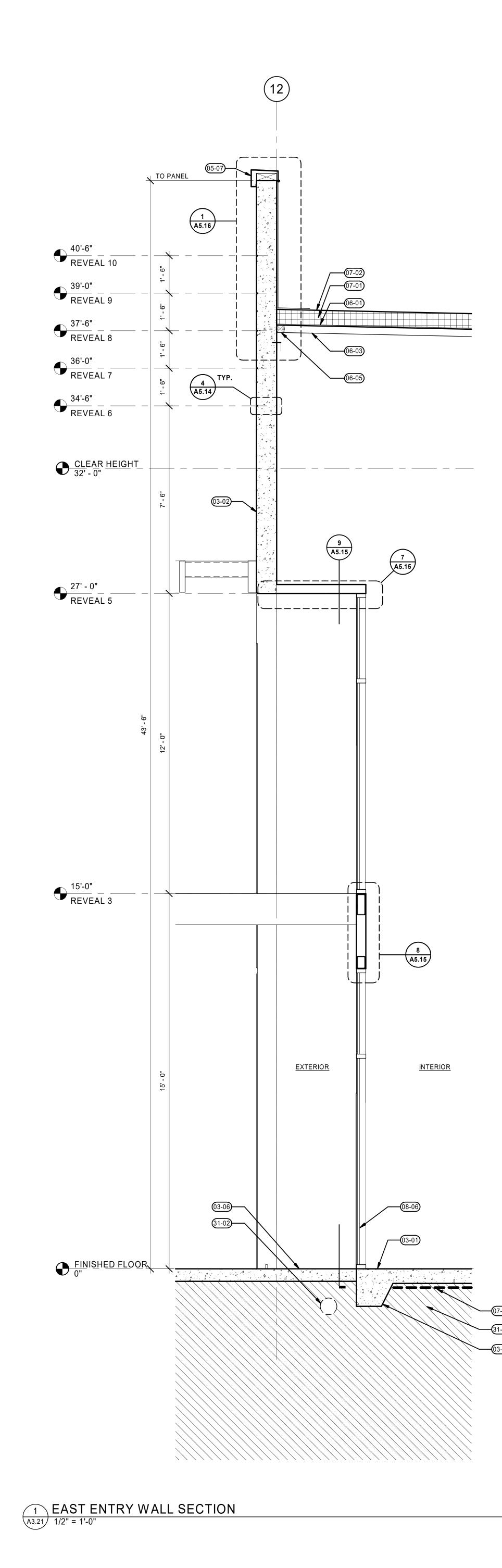


SHEET TITLE: WALL SECTIONS

SHEET

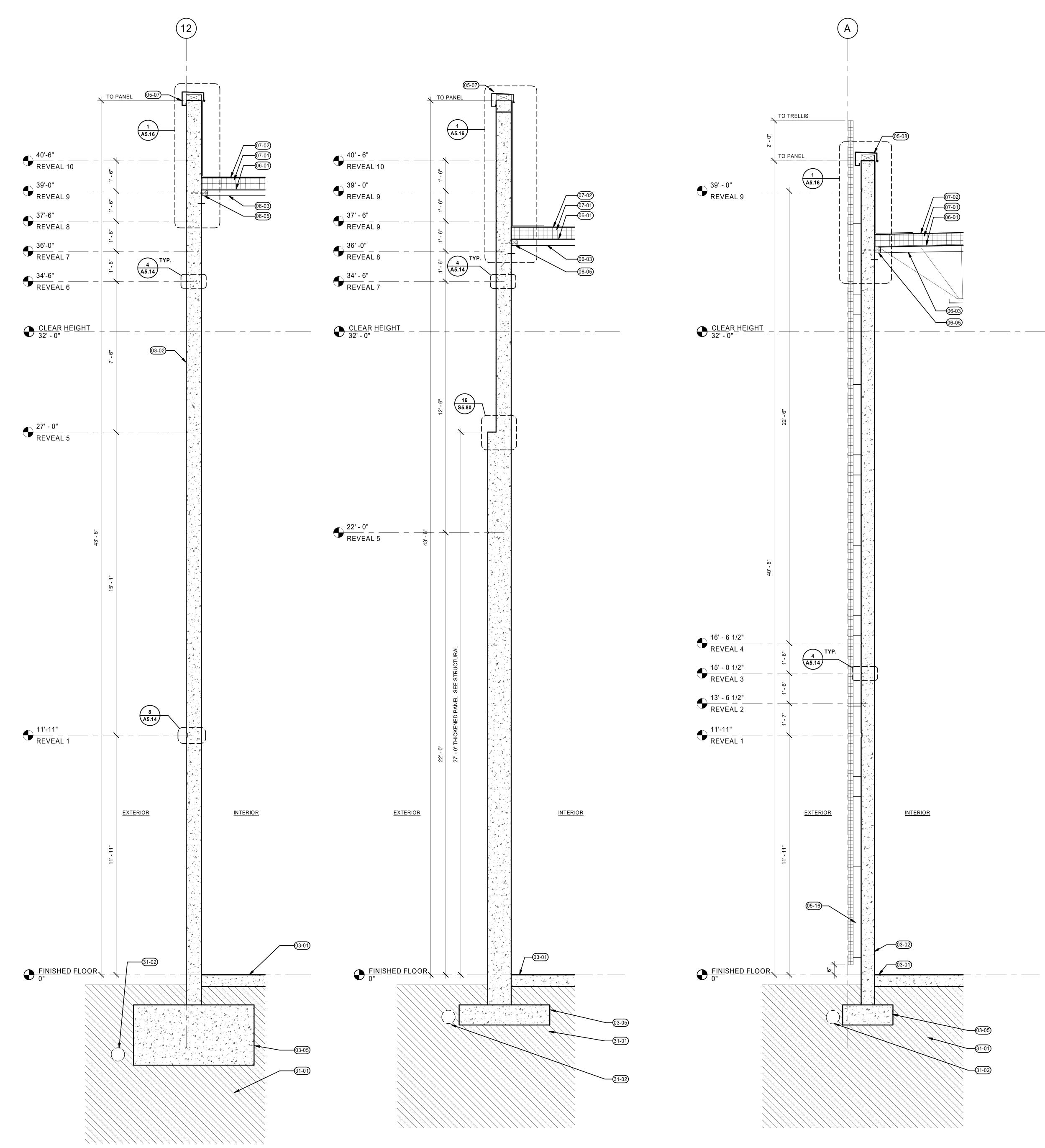


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3 NORTHEAST WALL SECTION A3.21 1/2" = 1'-0"



4 TRELLIS PANEL WALL SECTION A3.21 1/2" = 1'-0"



CANOPY GENERAL NOTES

A. VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 B. SEE STRUCTURAL DRAWINGS FOR PANEL THICKNESS.

<u>KEYNOTES</u>

| 03-01 | REINFORCED CONCRETE SLAB PER STRUCTURAL, SEALED AND POLISHED WITH DAYTON PENTRA-HARD FINISHER. | Client |
|-------|--|------------------|
| 03-02 | TILT-UP CONCRETE WALL, SEE STRUCTURAL. NO PAINT ON INTERIOR WALL. | 0055 |
| 03-05 | CONCRETE FOOTING, SEE STRUCTURAL FOR SIZE AND REINFORCING. | |
| 03-06 | CONCRETE PAVING. | |
| 05-07 | METAL COPING. SEE DETAIL 1/A5.16. | 11611 \$ |
| 05-08 | BIDDER-DESIGN: DOCK DOOR CANOPY. SEE DETAILS 14, 15, & 16 ON SHEET A5.14. | 10TH F LOS AI |
| 05-16 | TRELLIS PANEL SYSTEM. SEE DETAIL 16/A5.13. | LUUAI |
| 06-01 | WOOD DECKING, SEE STRUCTURAL DRAWINGS. | |
| 06-03 | SUB-PURLIN, SEE STRUCTURAL | |
| 06-05 | LEDGER, SEE STRUCTURAL | |
| 07-01 | RIGID INSULATION, SEE DETAIL 2/A1.12. | |
| 07-02 | TPO SINGLE PLY ROOFING SYSTEM OVER INSULATION, SEE DETAIL 2/A1.12. | |
| 07-08 | PROVIDE 10 MIL CLASS "A" UNDERSLAB VAPOR BARRIER AT FUTURE OFFICE AREAS. | |
| 08-06 | STOREFRONT ENTRY. | |
| 31-01 | REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE PREPARATION FOR CONSTRUCTION. | Project |
| 31-02 | FOOTING DRAINS AS PRESCRIBED BY GEOTECHNICAL | |

FOOTING DRAINS AS PRESCRIBED BY GEOTECHNICAL REPORT. REFER TO CIVIL DRAWINGS.

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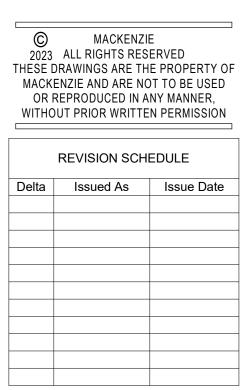
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Mechanical/Electrical

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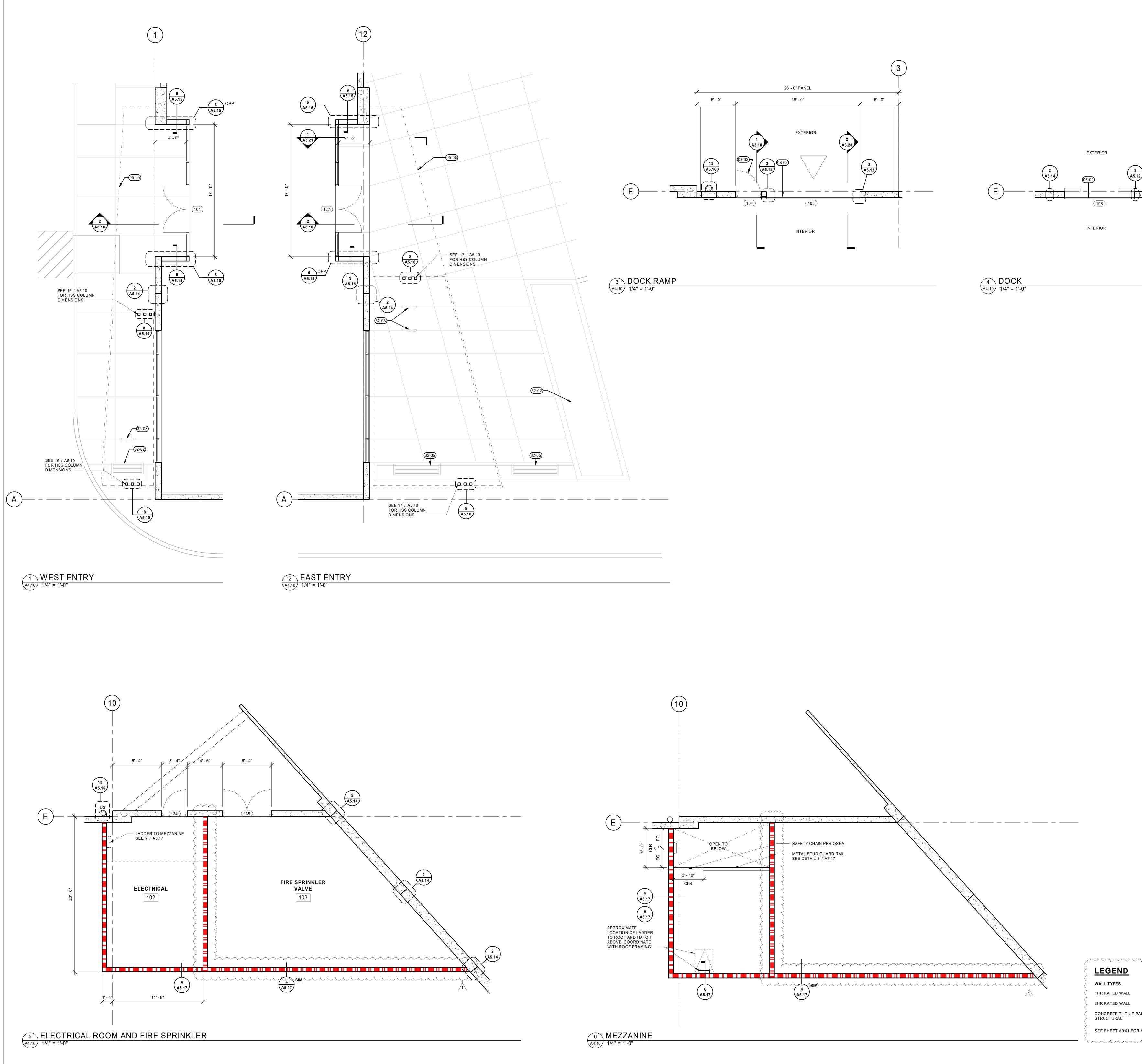
SHEET TITLE: WALL SECTIONS

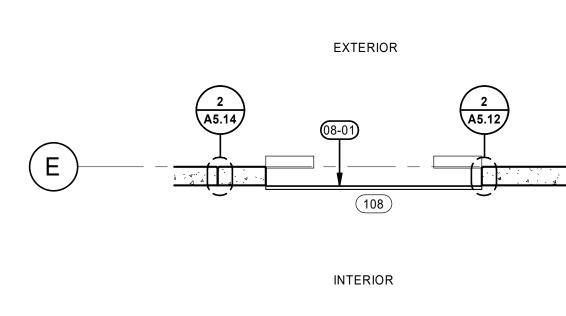
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A3.21

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CANOPY GENERAL NOTES

A. VERIFY AND CONFIRM ALL DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
 B. SEE STRUCTURAL DRAWINGS FOR PANEL THICKNESS.

<u>KEYNOTES</u>

| 05-05 | METAL CANOPY. SEE SHEET DETAILS 9, 15, 18, & 19 ON SHEET A5.10. |
|-------|--|
| 08-01 | INSULATED OVERHEAD DOOR. PAINT TO MATCH BUILDING. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. |
| 08-02 | INSULATED OVERHEAD DRIVE-IN DOOR. PAINT TO MATCH. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. |
| 08-03 | INSULATED HM DOOR. SEE DOOR TYPES ON A6.10 FOR ADDITIONAL INFO. |
| 32-02 | LANDSCAPE ISLAND. |
| 32-03 | (2) BIKE RACKS - SEE DETAILS 8 & 9/A5.13. |
| 32-05 | CAST IN PLACE CONCRETE WITH WOOD BENCH TOPPERS. SEE LANDSCAPE. |
| | |

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Project

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Mechanical/Electrical

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REVISION SCHEDULE

1 PLAN CHECK 11/07/23

SHEET TITLE: ENLARGED PLANS

Issued As Issue Date

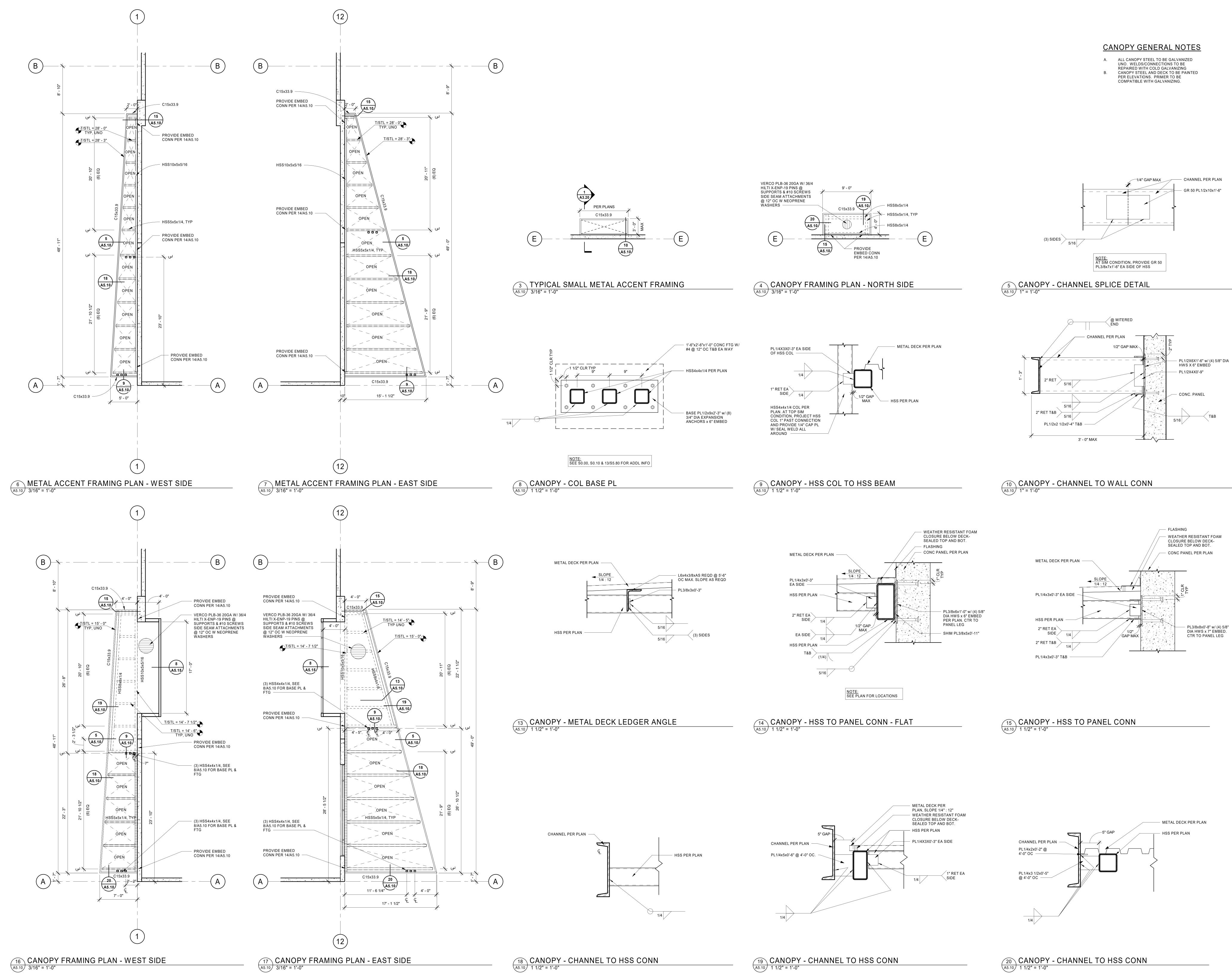
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| WALL TYPES | |
| 1HR RATED WALL | |
| 2HR RATED WALL | |
| CONCRETE TILT-UP PANEL, SEE STRUCTURAL | |

SEE SHEET A0.01 FOR ADDITIONAL INFO A4.10

SHEET

JOB NO. **2220290.00**

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OWNER LLC

10TH FLOOR

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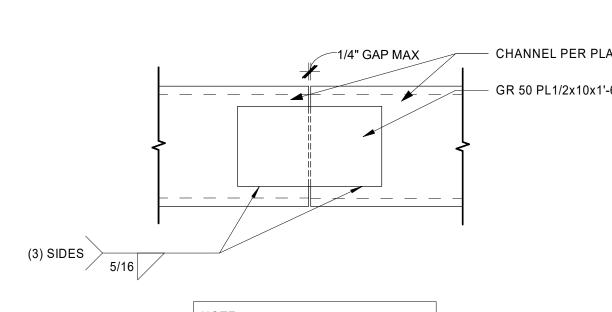
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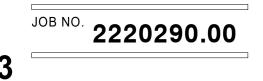
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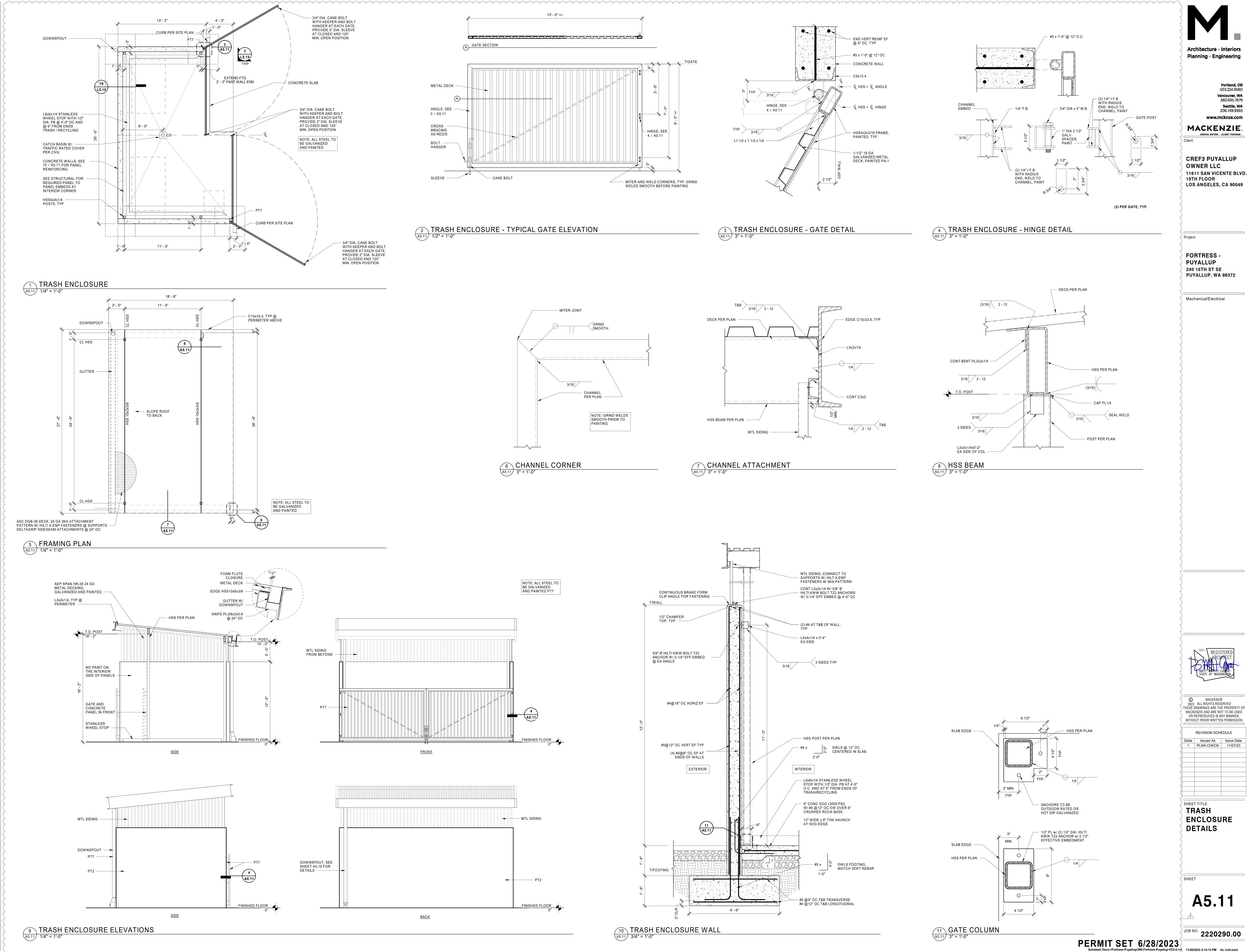
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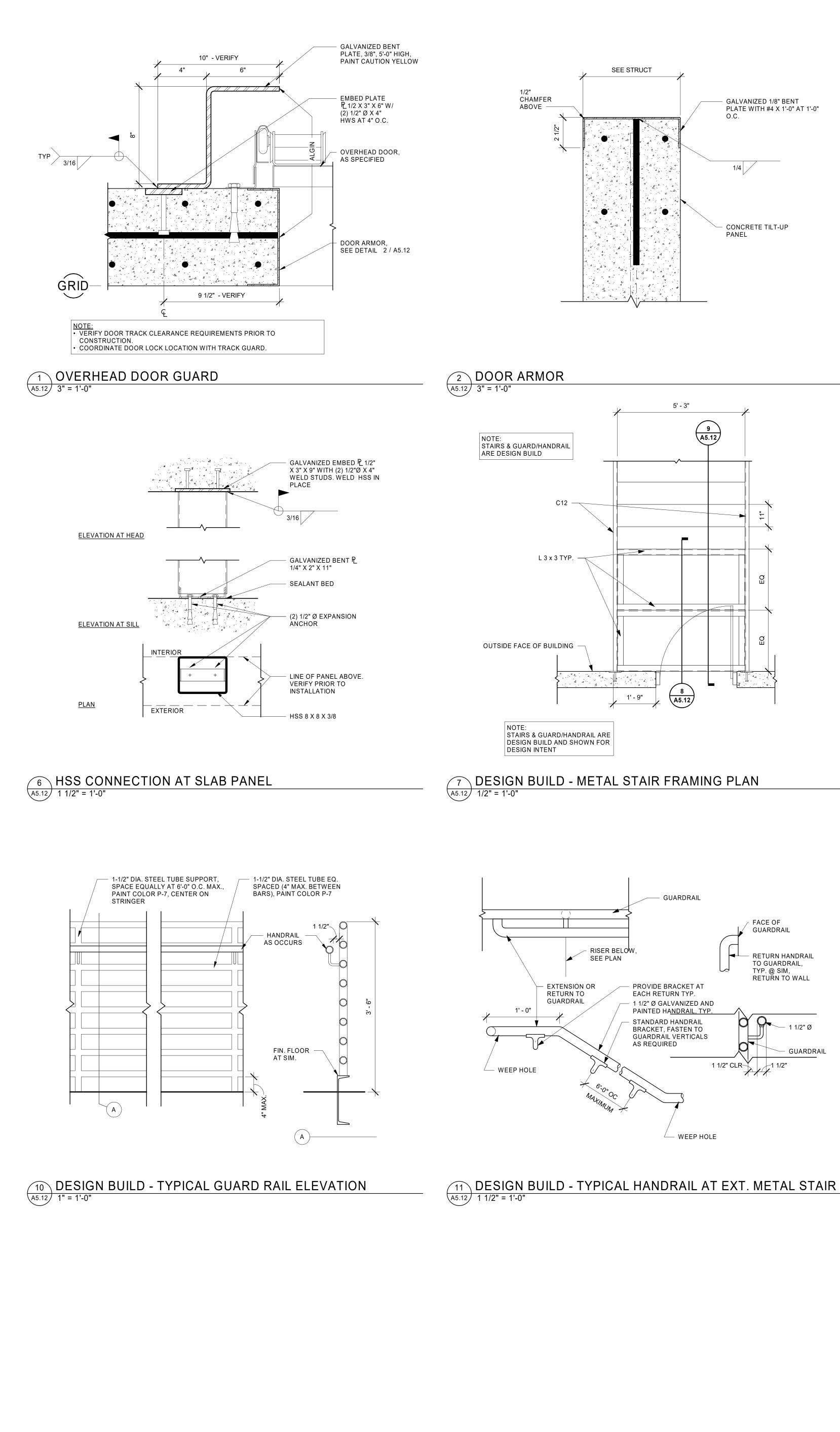


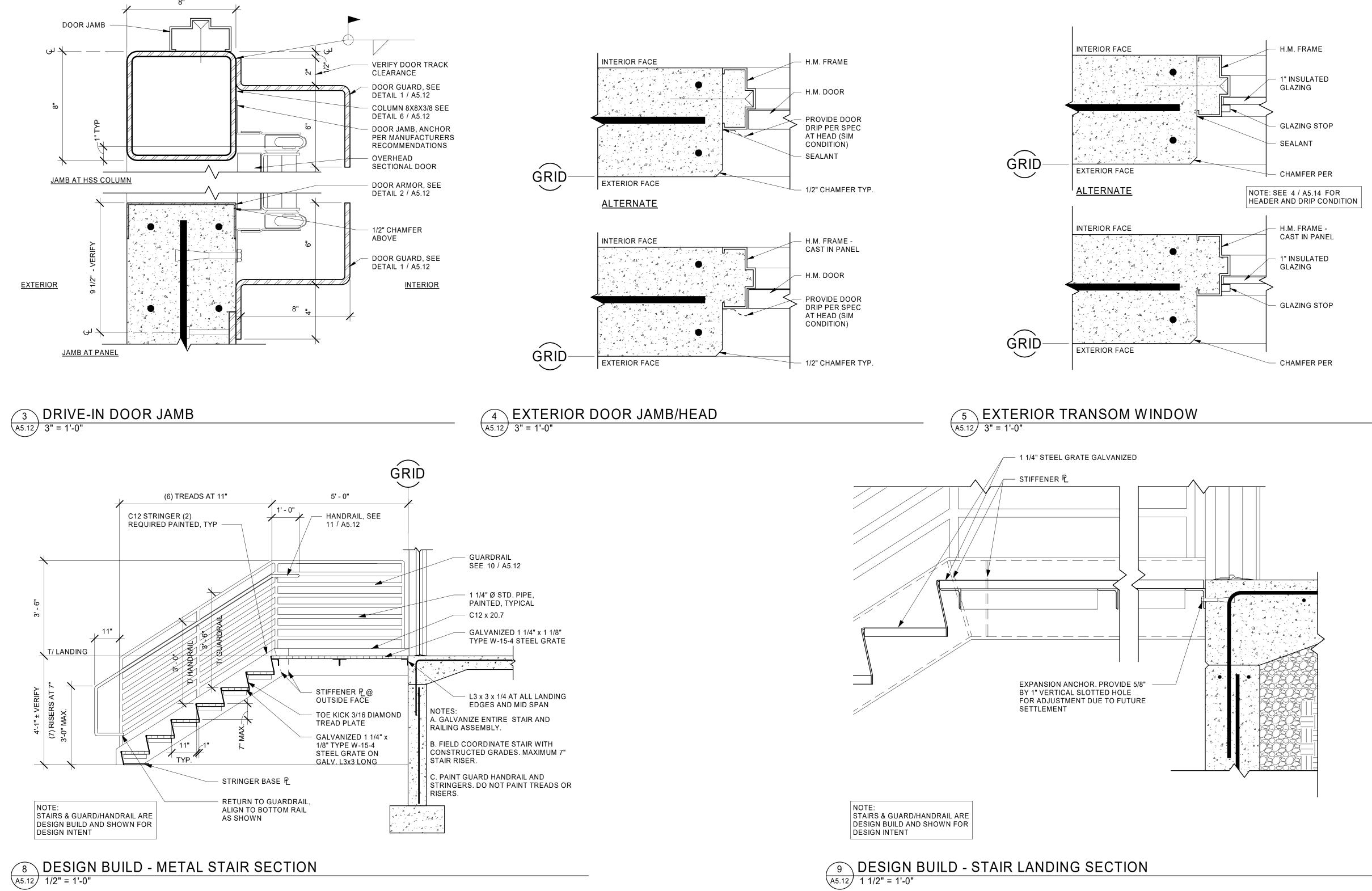


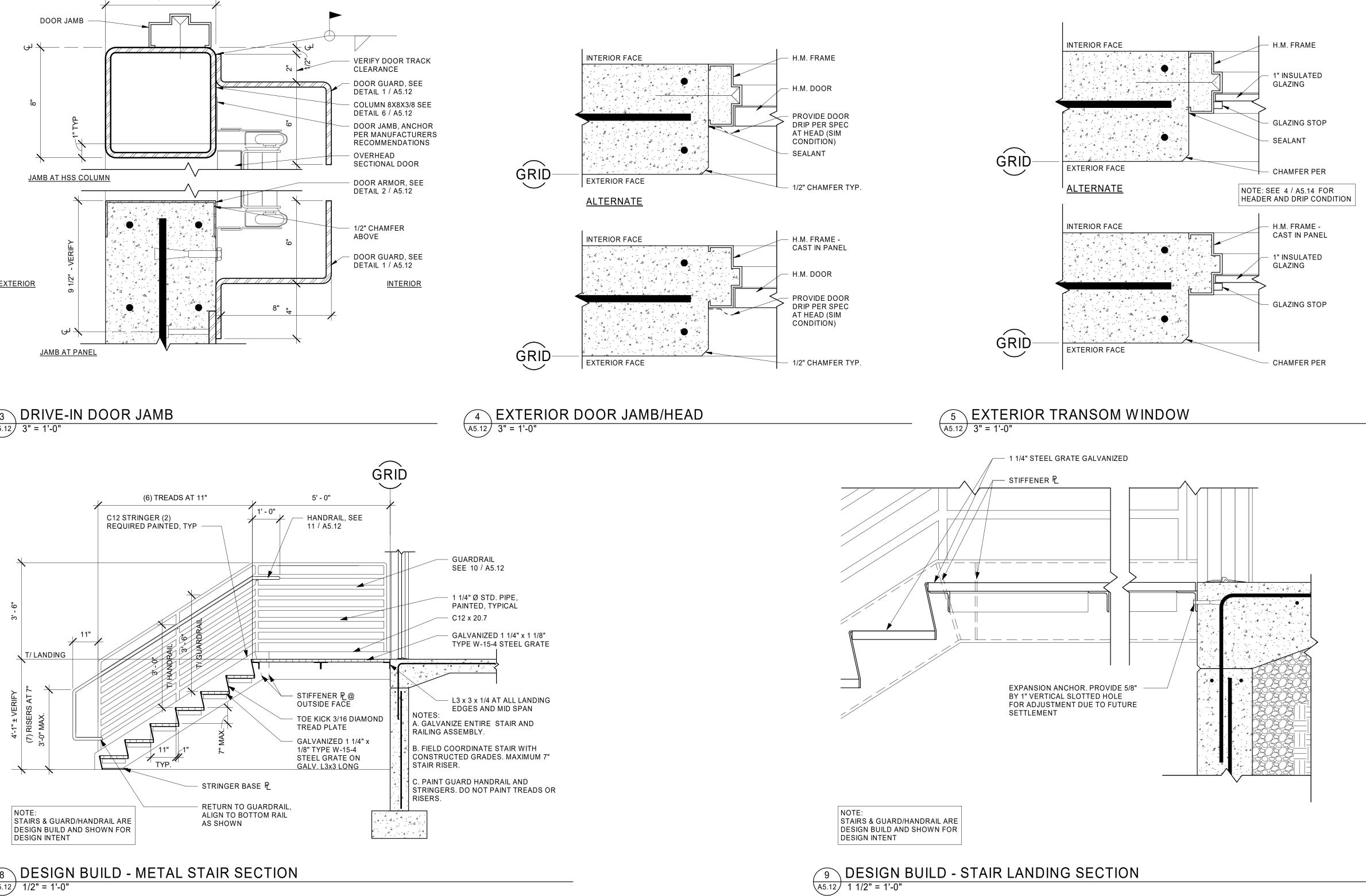
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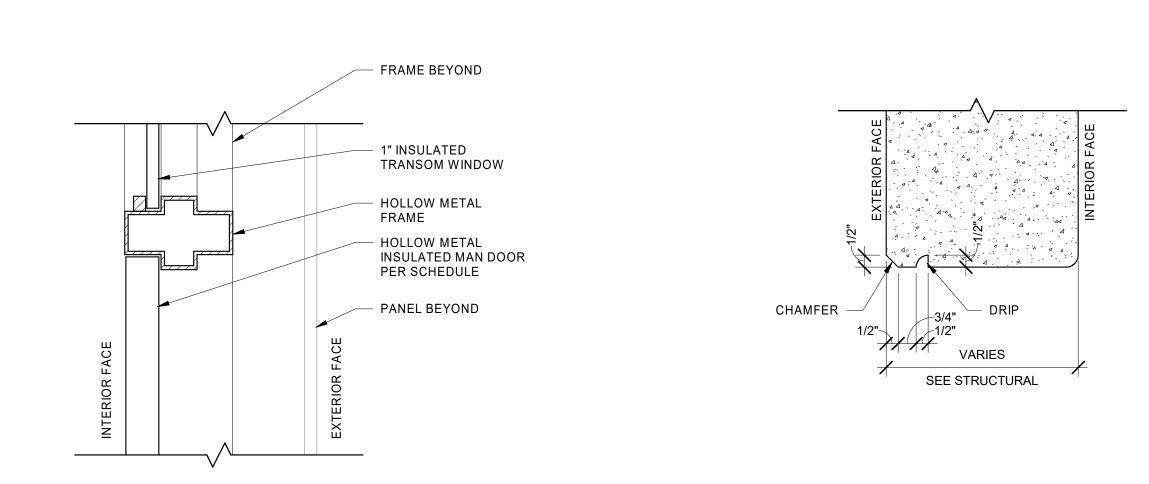
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(12) EXTERIOR TRANSOM WINDOW A5.12 3" = 1'-0"





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EXTERIOR DETAILS

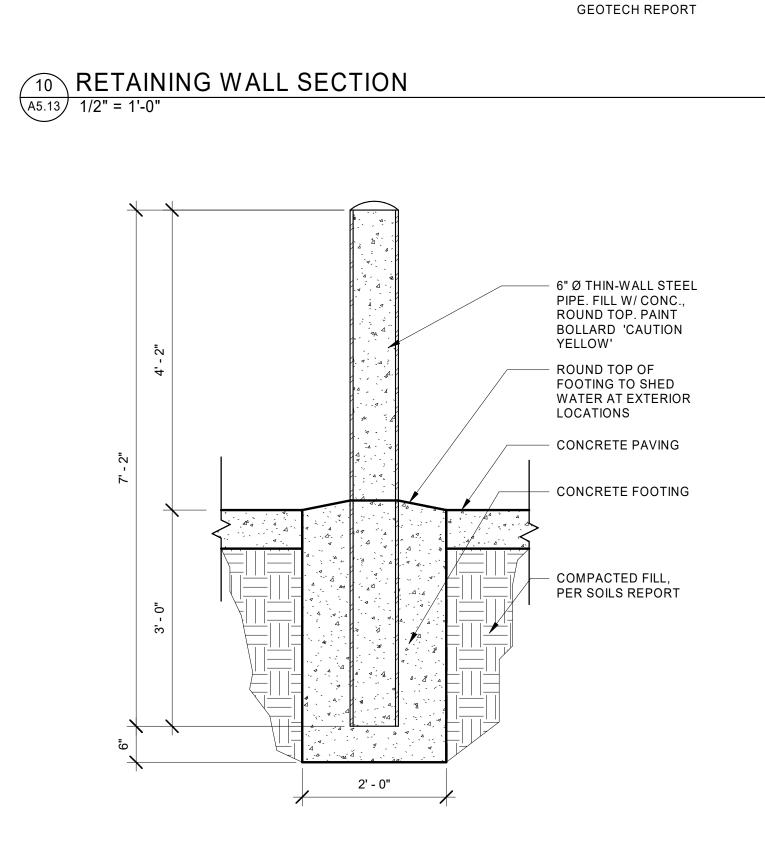
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A5.12

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5 1/2"

1 1/2" CLR-

4'~0"

6' - 0"

– (2) #5 REBAR AT TOP

– A.C. PAVING

- #6 @ 6" OC VERT

#5 @ 12" OC HORIZ

- DRAINAGE FABRIC

SEE 13 / A5.13

12" FREE DRAINAGE

COMPACTED GRANULAR FILL

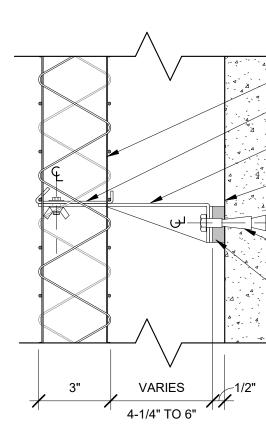
– DWLS TO MATCH VERT BARS

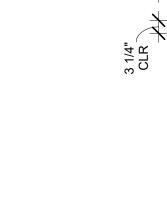
- CONCRETE TRUCK APRON AT JOINTS,

– WEEP HOLES AT 6'-0" O.C.

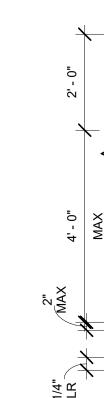
— #5 @ 12" OC EW T&B

- SUBGRADE PREPARATION PER





A5.13 1/2" = 1'-0"





16 FACE OF TRELLIS PANEL TO FACE OF WALL A5.13 3" = 1'-0"

- 3" THICK TRELLIS PANEL, TYP.

3" SLED W/ 1-1/2" SLOT FOR

MOUNTING CLIP W/ BENT

HILTI KWIK BOLT TZ2 ANCHOR 3/8" Ø W/ 6" MIN EDGE DIST

ADJUSTABILITY

STEEL GUSSET, TYP.

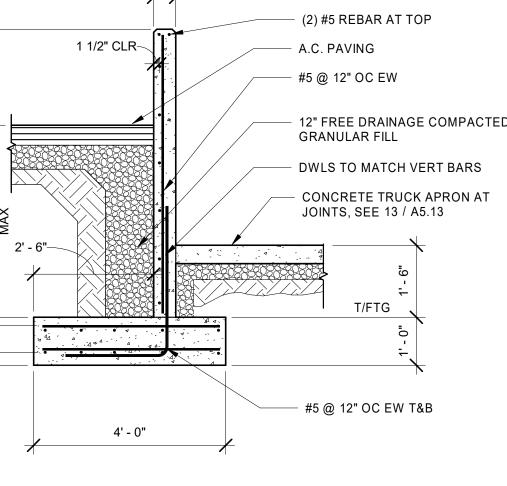
FROM PANEL EDGE

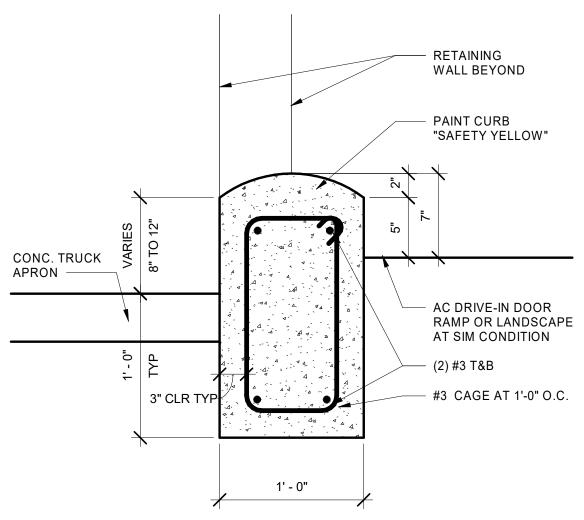
1/2" X 1-1/2" DIA. PLASTIC SPACER, TYP.

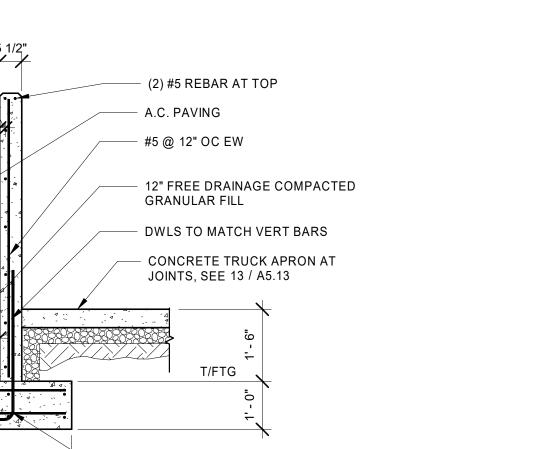
- CONCRETE WALL

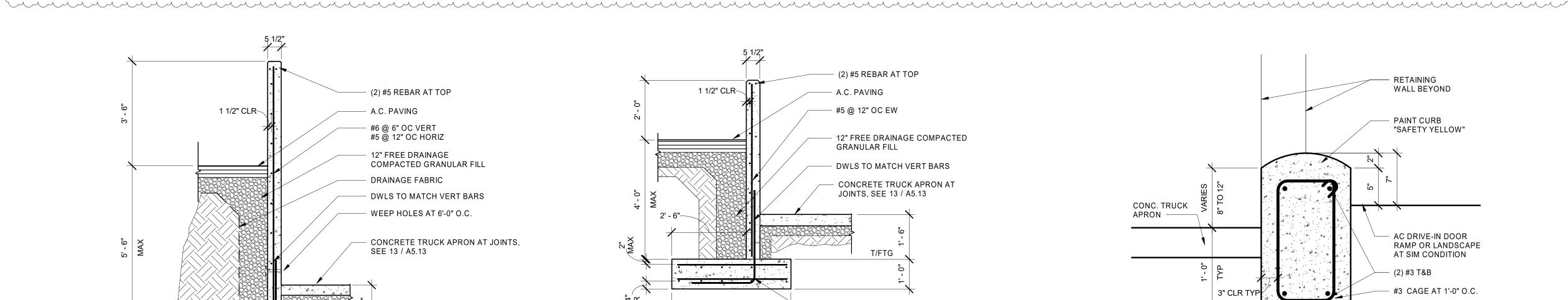
- (2) EXPANSION ANCHORS, SÉE 16/A5.13 - CONCRETE WALL - 6"x3"x4" INLINE BLADE - 6" 1/4" X 1-1/2" DIA. PLASTIC SPACER, TYP. ╺───────── ____لى (2) 3/8" DIA. x 1-1/2" SS THRU-BOLT - TRIM W/DRILL HOLES REQUIRED AT PANEL EDGES W/ INLINE BLADE - 3" - 3" THICK TRELLIS PANEL, TYP.











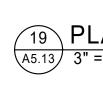
12 MOUNTABLE CURB

17 PLAN VIEW - TRELLIS INLINE BLADE

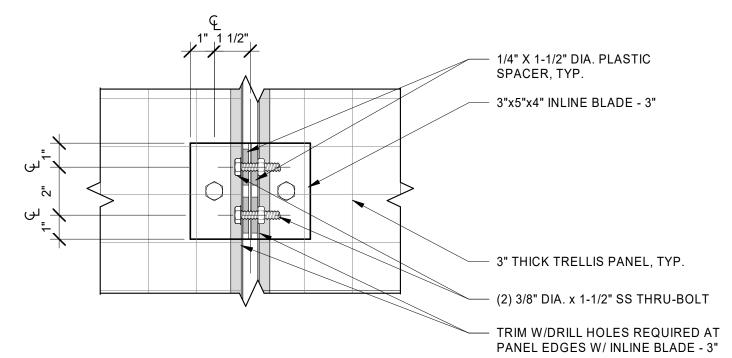
A5.13 1 1/2" = 1'-0"

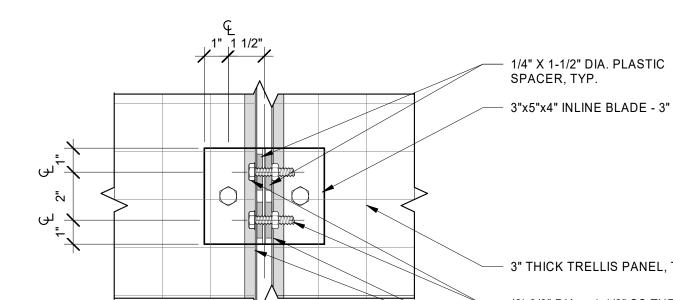
A5.13 3" = 1'-0"















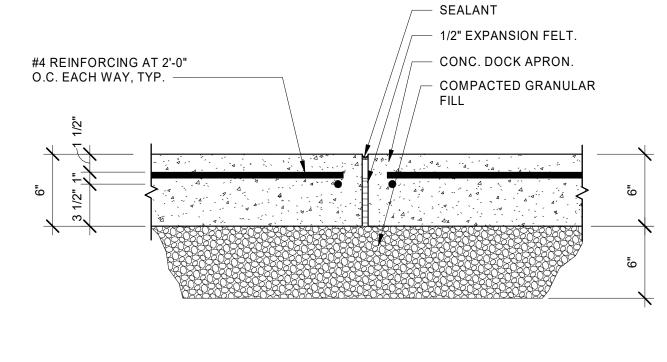




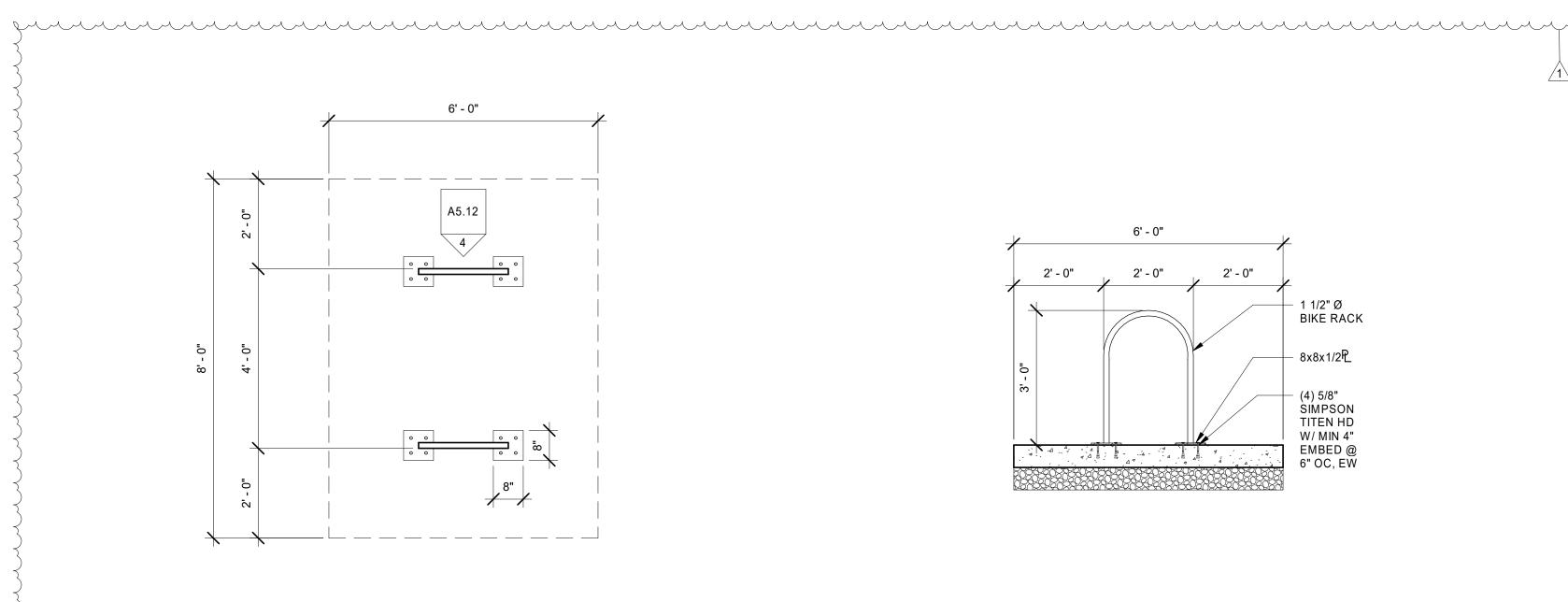




(13) DOCK APRON JOINT A5.13 1 1/2" = 1'-0"



8 BIKE RACK PLAN A5.13 1/2" = 1'-0"

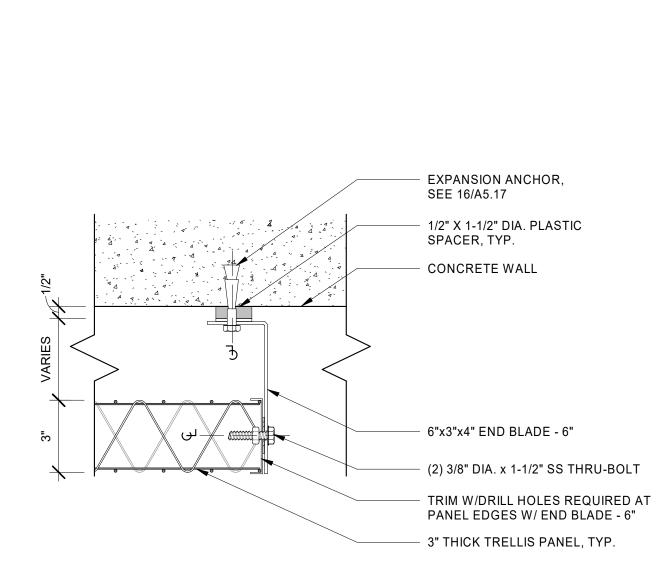


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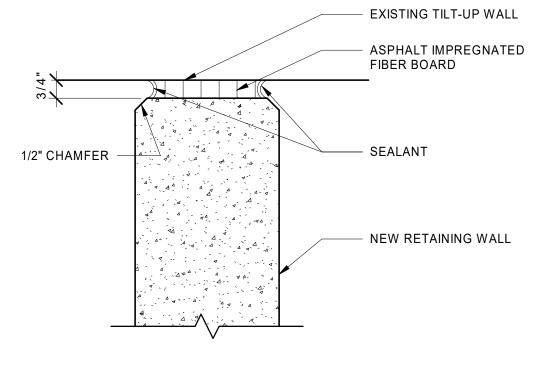
JOB NO. **2220290.00**

A5.13

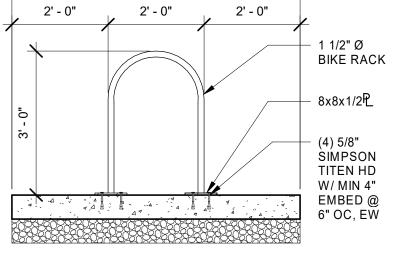
19 PLAN VIEW - TRELLIS PANEL END BLADE A5.13 3" = 1'-0"



(14) RETAINING WALL JOINT A5.13 3" = 1'-0"



9 BIKE RACKS ELEVATION A5.13 1/2" = 1'-0"



6' - 0"

FORTRESS -

PUYALLUP PUYALLUP, WA 98372

10TH FLOOR LOS ANGELES, CA 90049

Project

Portland, OR 503.224.9560 Vancouver, WA 360.695.7879

Seattle, WA 206.749.9993

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Architecture - Interiors Planning - Engineering

CREF3 PUYALLUP OWNER LLC 11611 SAN VICENTE BLVD.

240 15TH ST SE

Mechanical/Electrical

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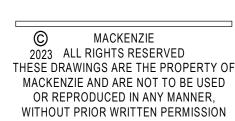


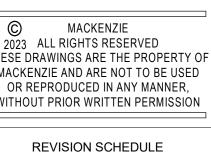
SHEET

EXTERIOR

DETAILS

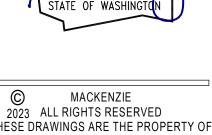
SHEET TITLE:





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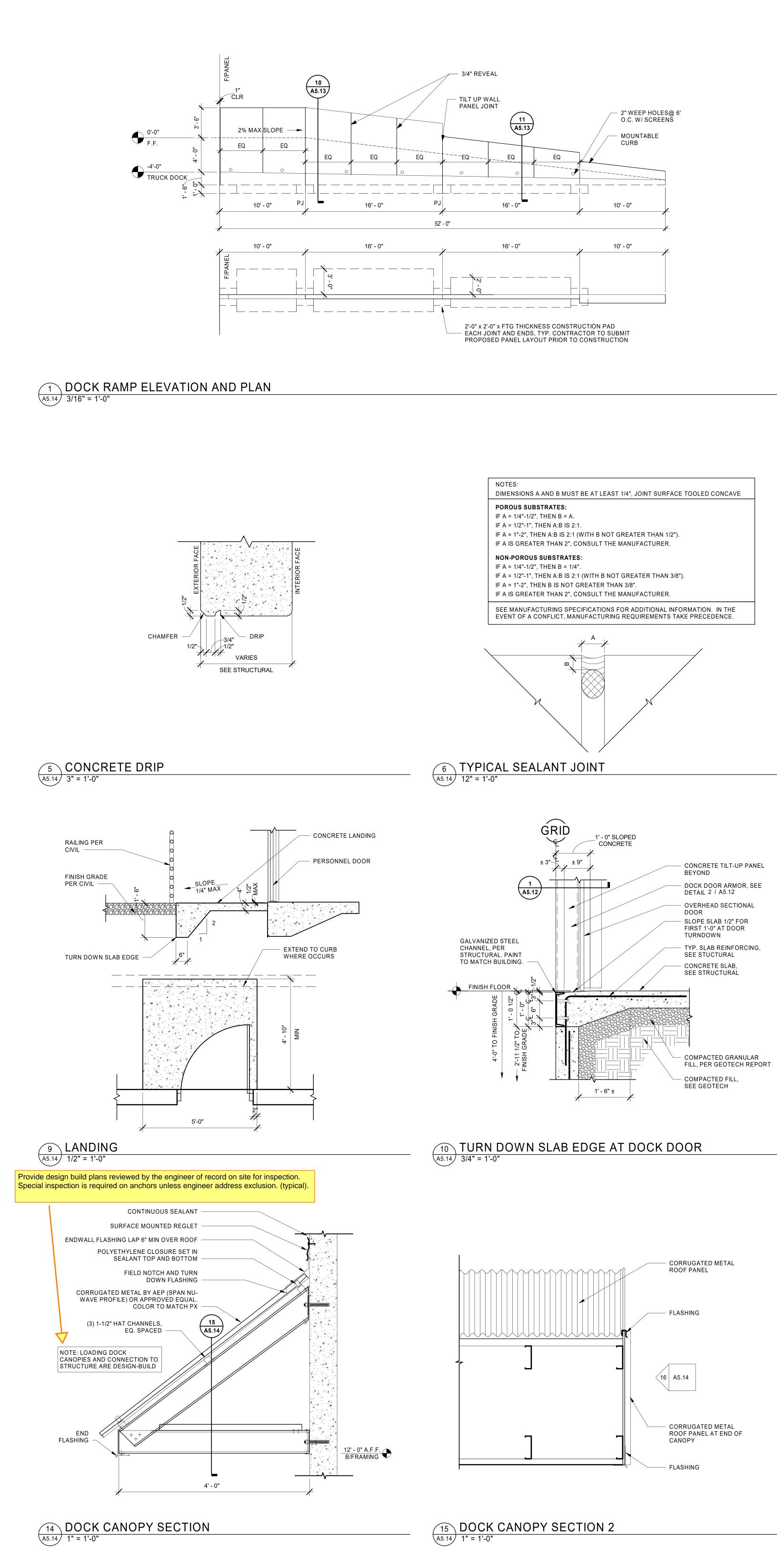


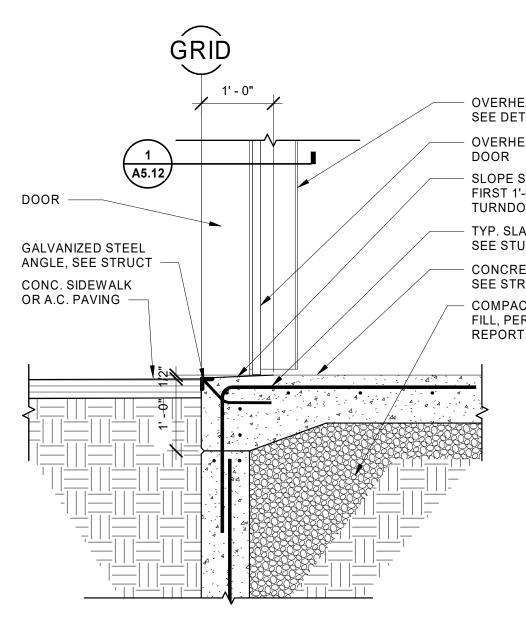




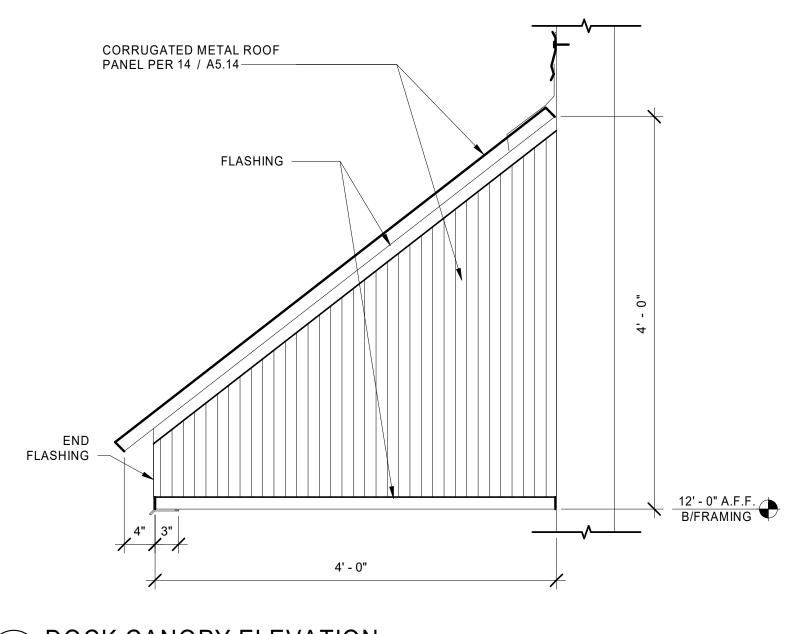




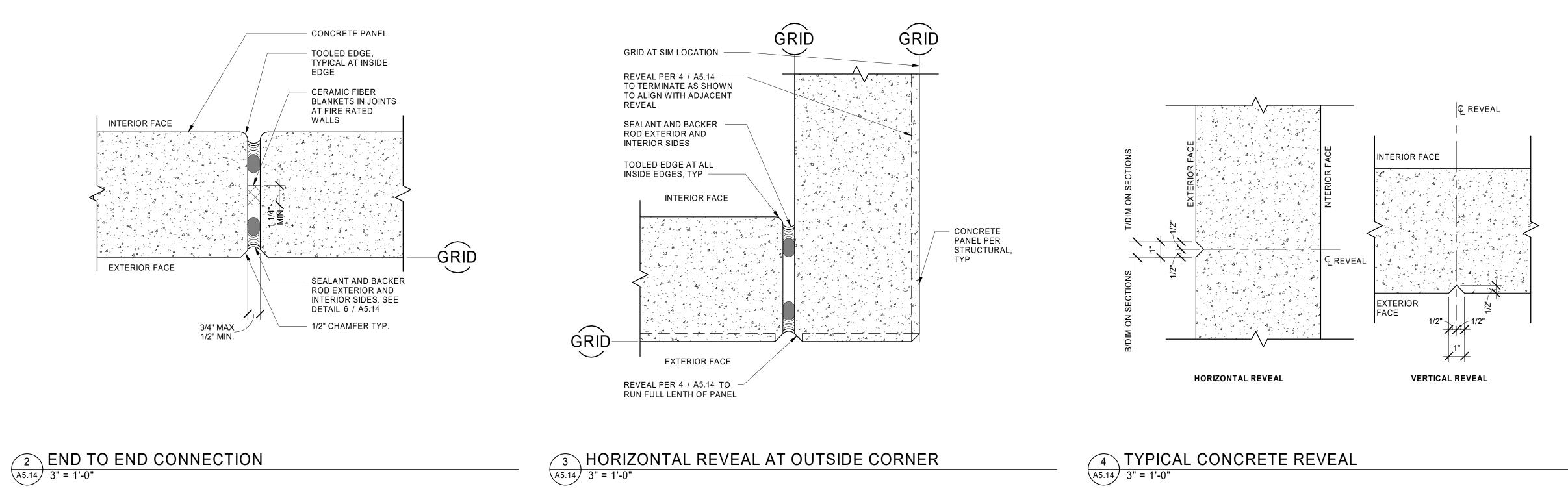




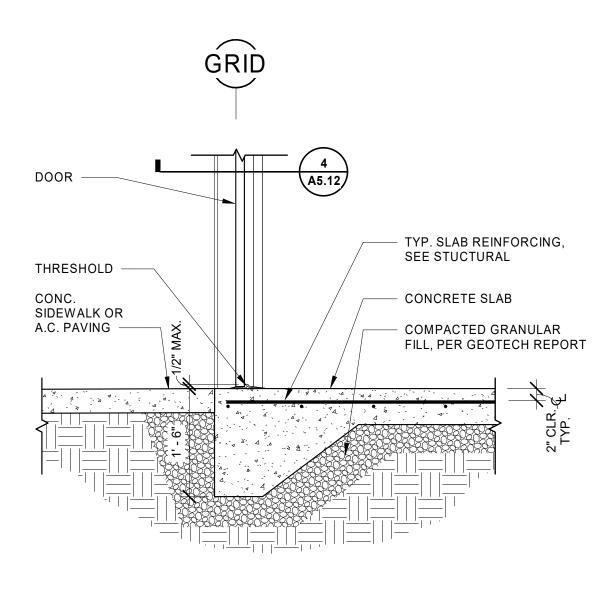
TIN TURN DOWN SLAB EDGE AT DRIVE IN DOOR A5.14 3/4" = 1'-0"



16 DOCK CANOPY ELEVATION A5.14 1" = 1'-0"



OVERHEAD DOOR GUARD, SEE DETAIL 2 / A5.12 OVERHEAD SECTIONAL - SLOPE SLAB 1/2" FOR FIRST 1'-0" AT DOOR TURNDOWN - TYP. SLAB REINFORCING, SEE STUCTURAL CONCRETE SLAB, SEE STRUCTURAL - COMPACTED GRANULAR FILL, PER GEOTECH REPORT



12 TURN DOWN AT PERSONNEL DOOR A5.14 3/4" = 1'-0"

A5.14 3/4" = 1'-0"



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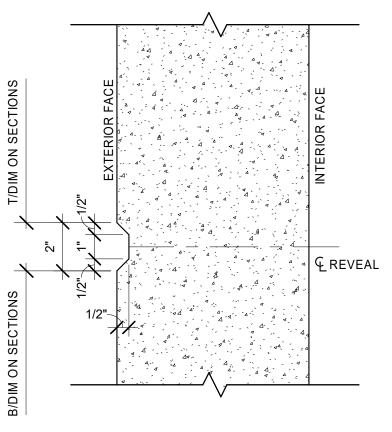
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PUYALLUP, WA 98372

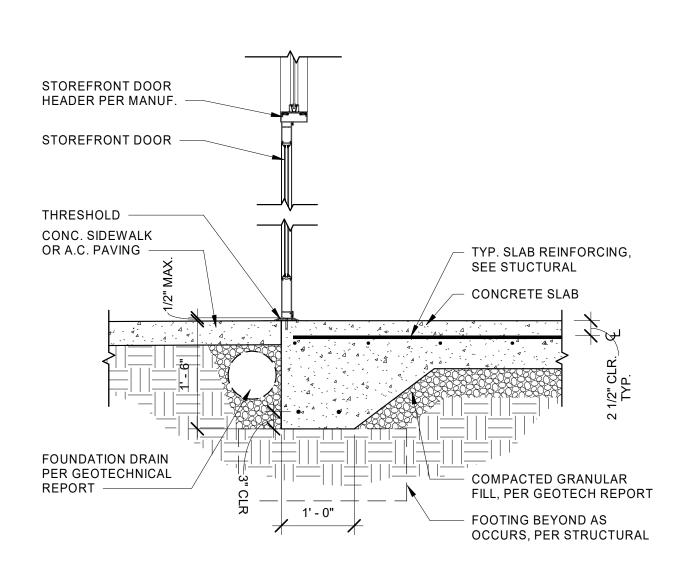
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HORIZONTAL REVEAL

8 LARGE CONCRETE REVEAL A5.14 3" = 1'-0"



TURN DOWN AT STOREFRONT DOOR



| L | | | | | | | | | |
|--------------------------|------------------------------------|-------------|--|--|--|--|--|--|--|
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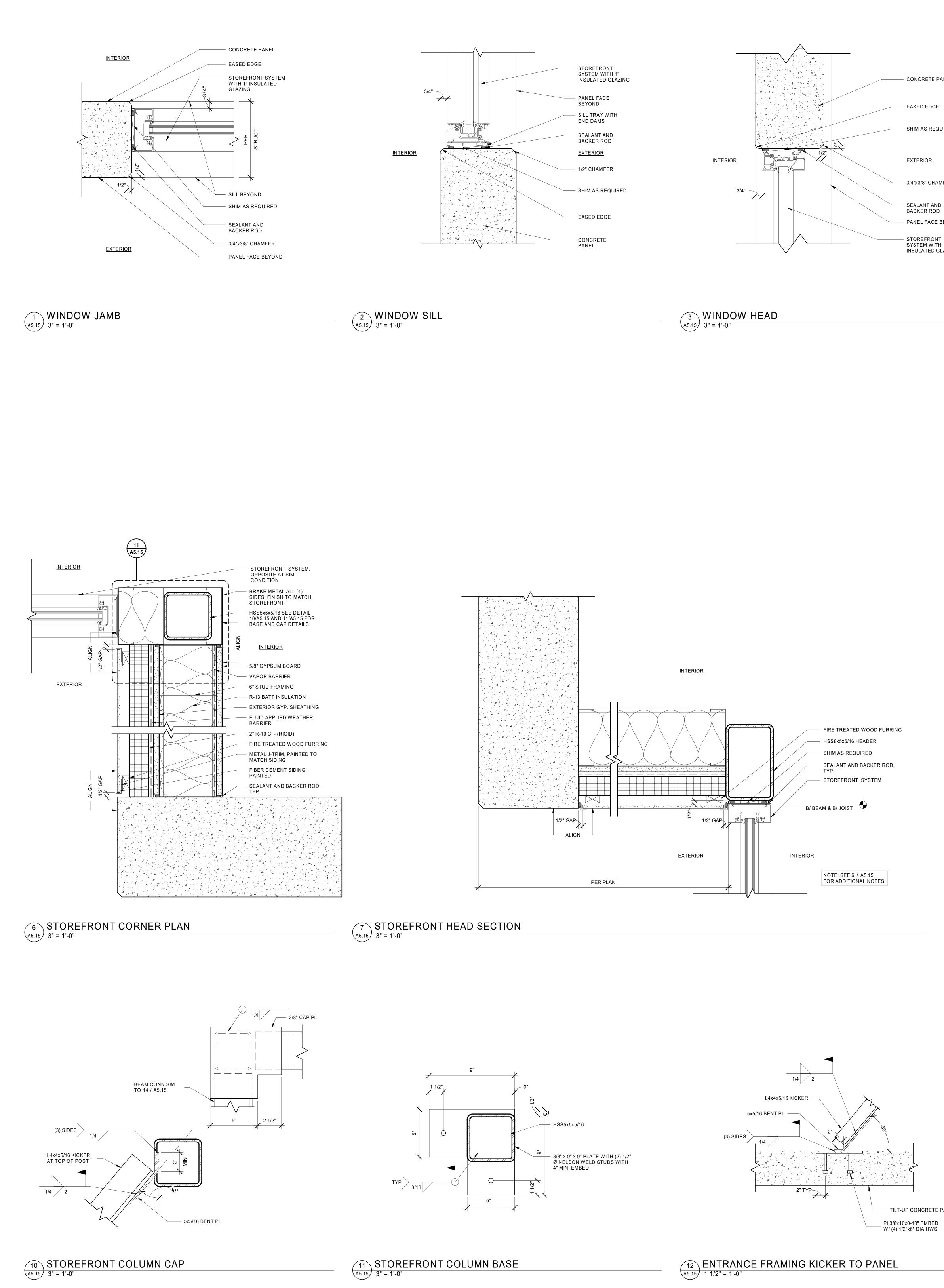
EXTERIOR DETAILS

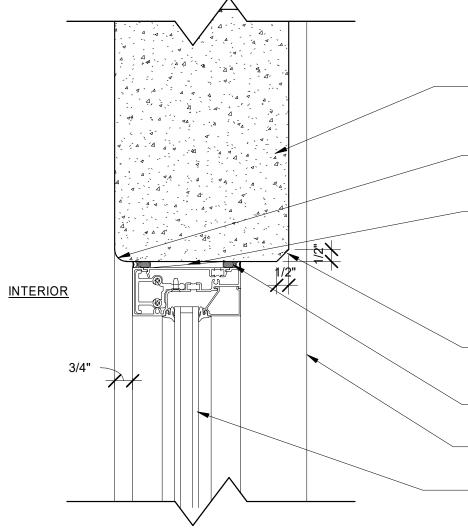
SHEET

A5.14

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- EASED EDGE

SHIM AS REQUIRED

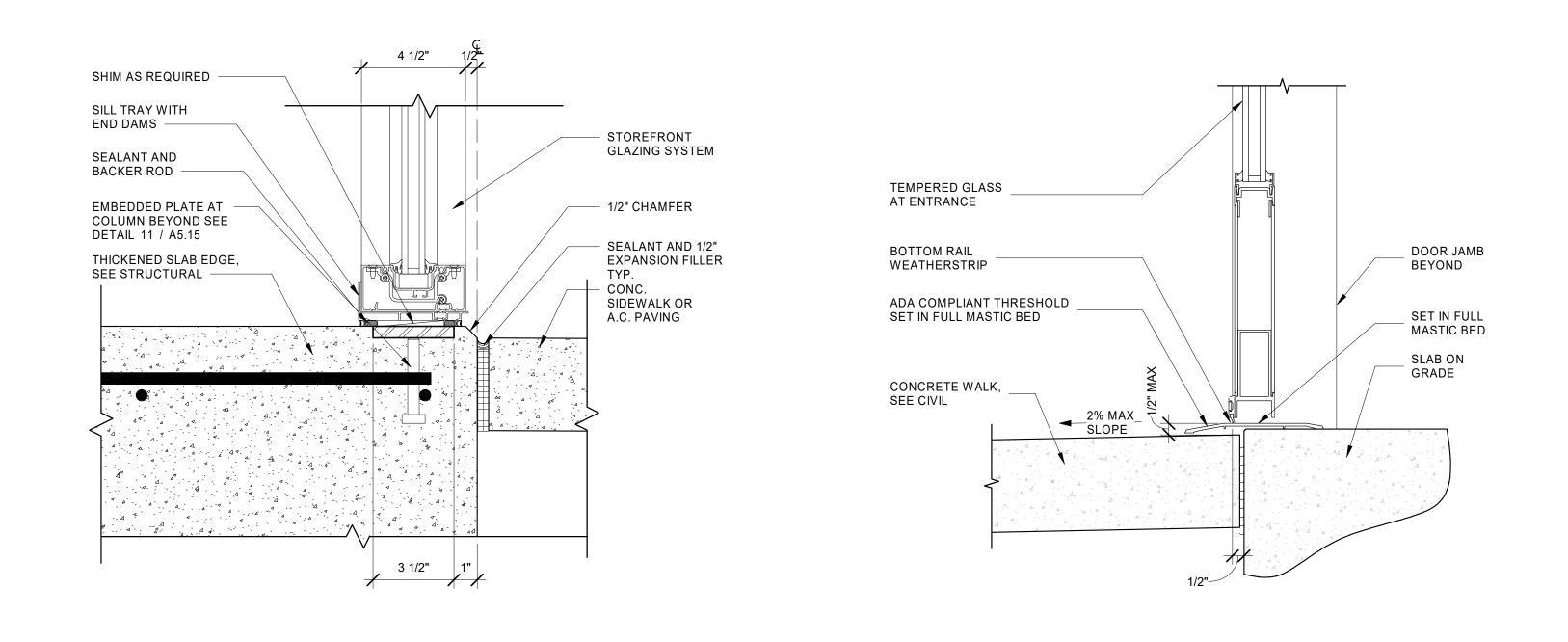
<u>EXTERIOR</u>

- 3/4"x3/8" CHAMFER

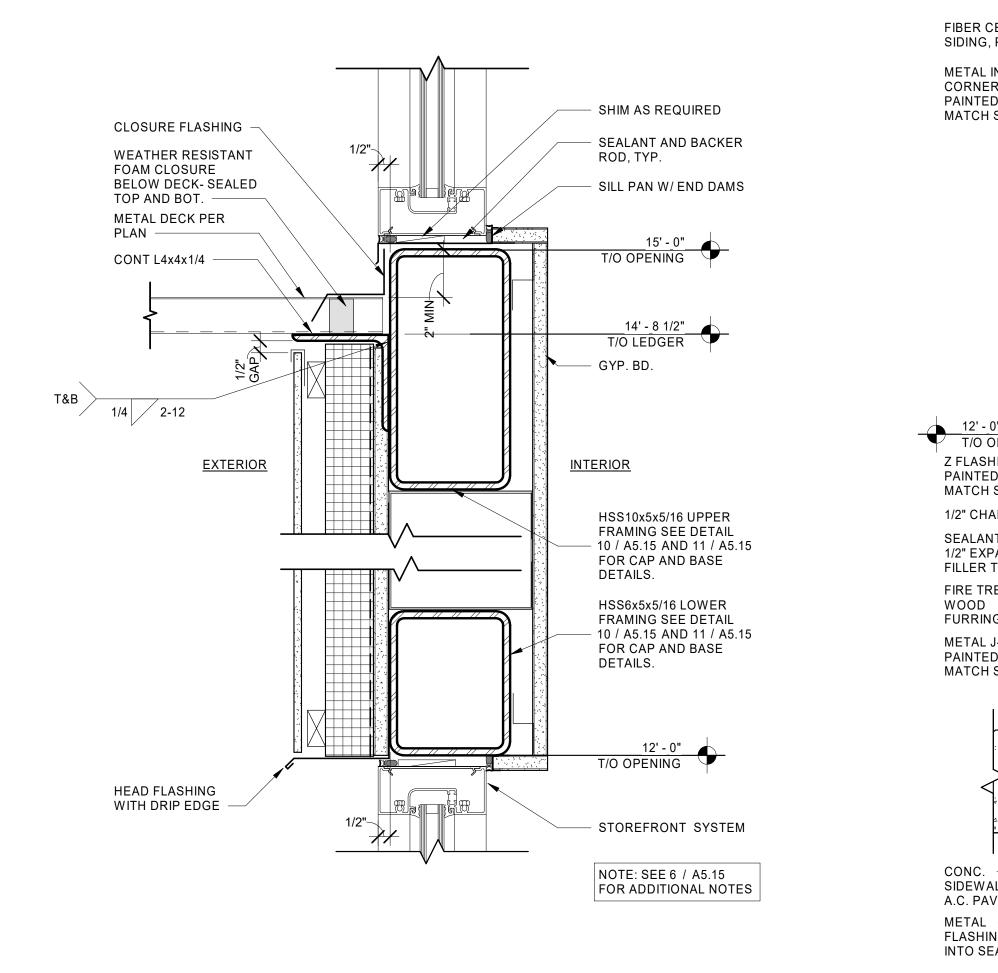
- SEALANT AND

- PANEL FACE BEYOND

SYSTEM WITH 1" INSULATED GLAZING

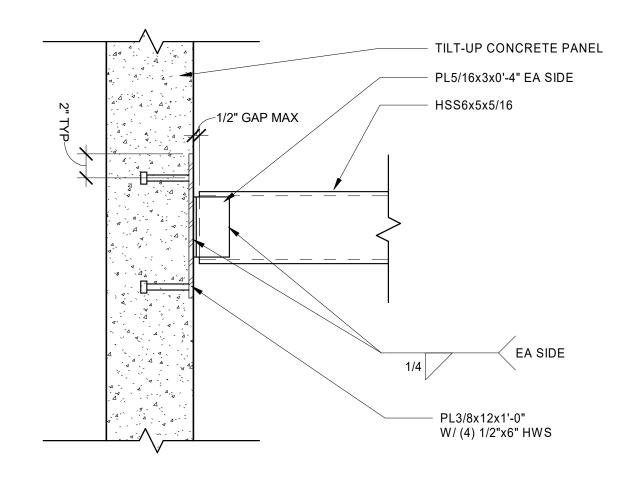






8 STOREFRONT HEAD & SILL SECTION A5.15 3" = 1'-0"

—— TILT-UP CONCRETE PANEL



13 HSS TO PANEL CONNECTION A5.15 1 1/2" = 1'-0"





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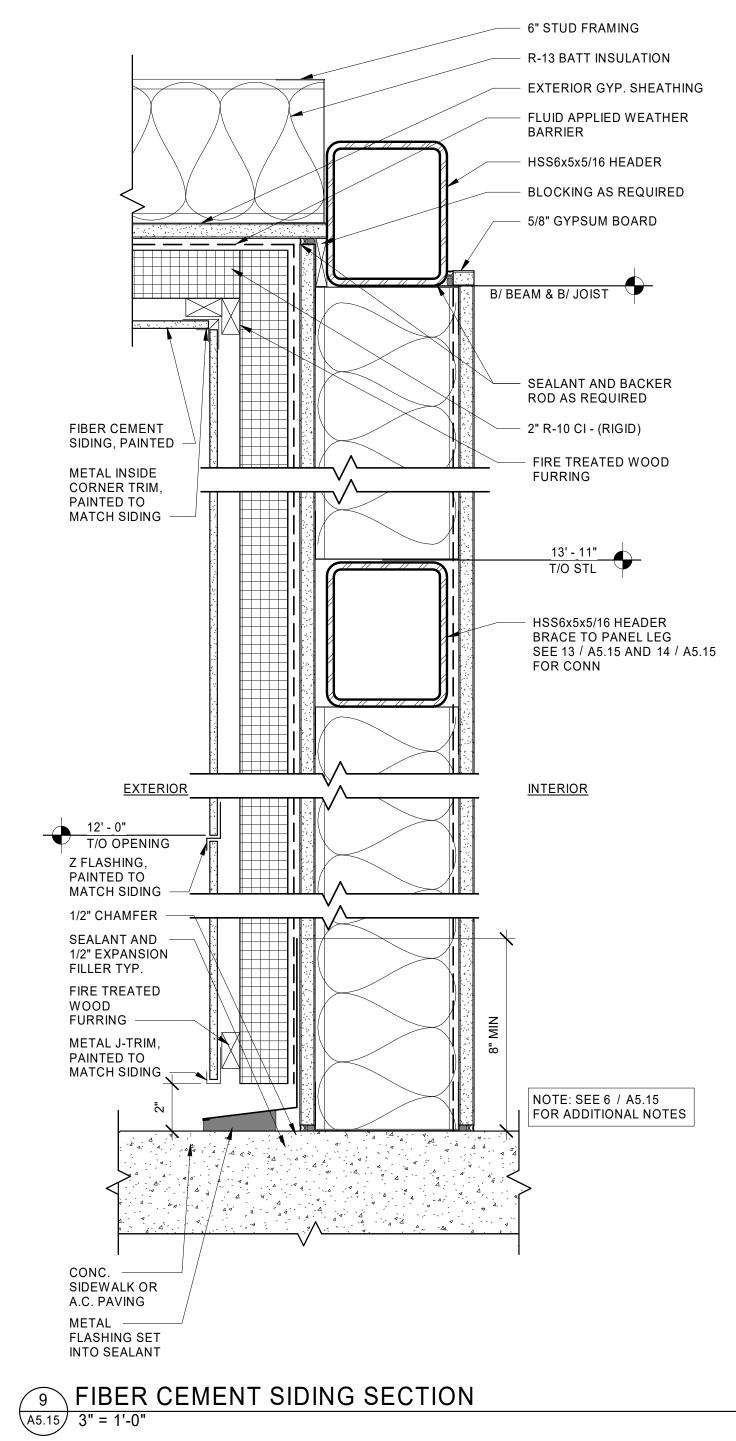
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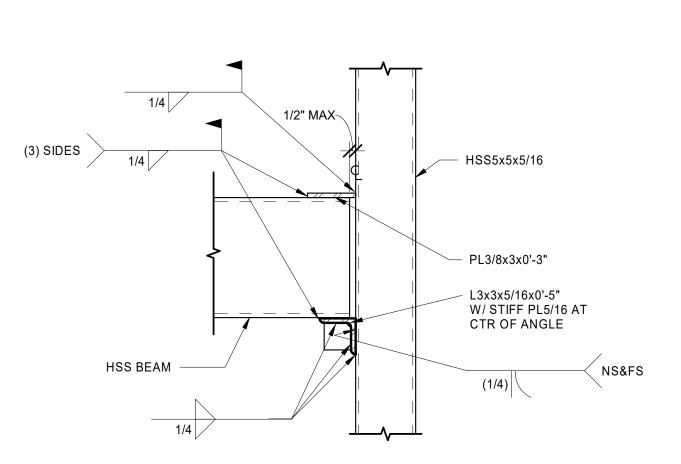
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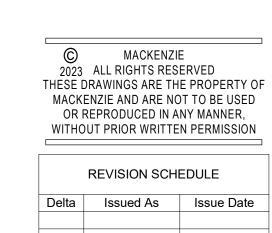
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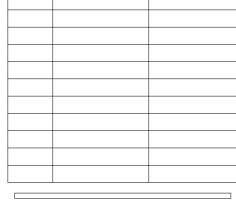
5 STOREFRONT DOOR SILL A5.15 3" = 1'-0"





14HSS BEAM TO POST CONNECTIONA5.151 1/2" = 1'-0"



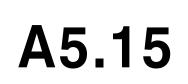


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SHEET TITLE: STOREFRONT

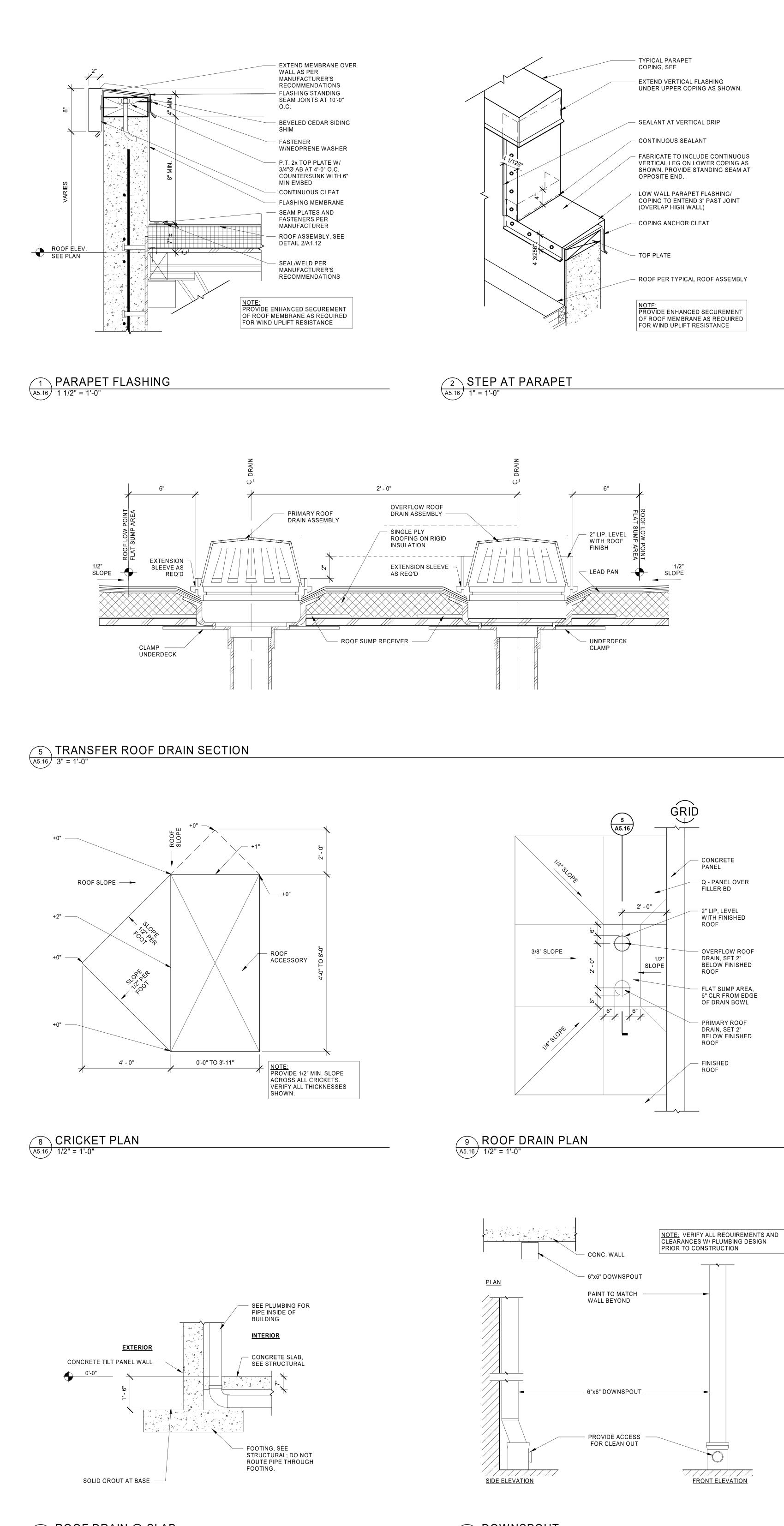
AND ENTRY DETAILS

SHEET

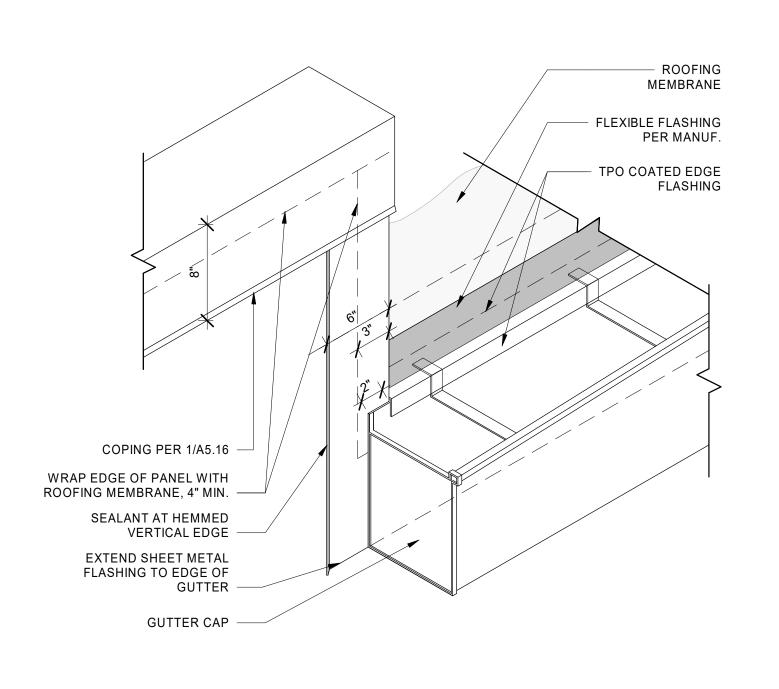


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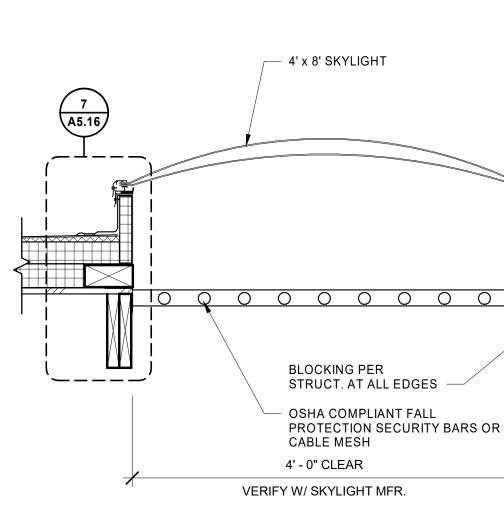
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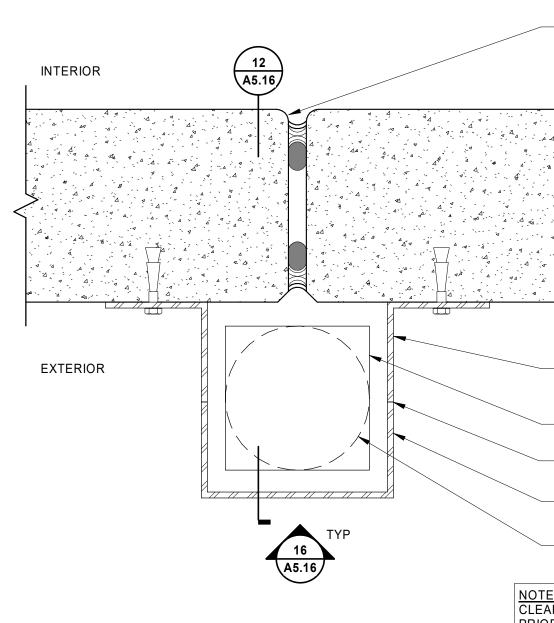
13 DOWNSPOUT A5.16 3/4" = 1'-0"



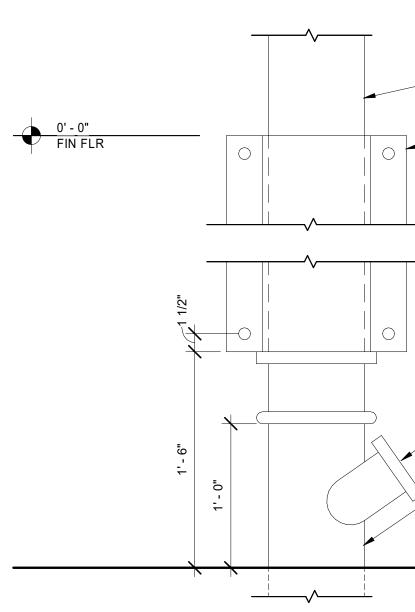
3 GUTTER TERMINATION A5.16 1 1/2" = 1'-0"

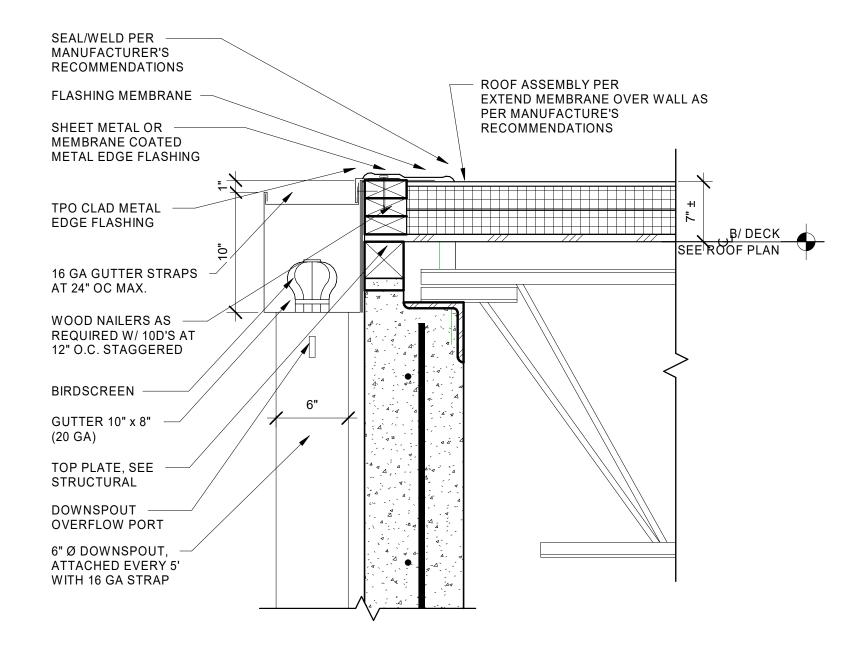


6 SKYLIGHT SECTION A5.16 1" = 1'-0"

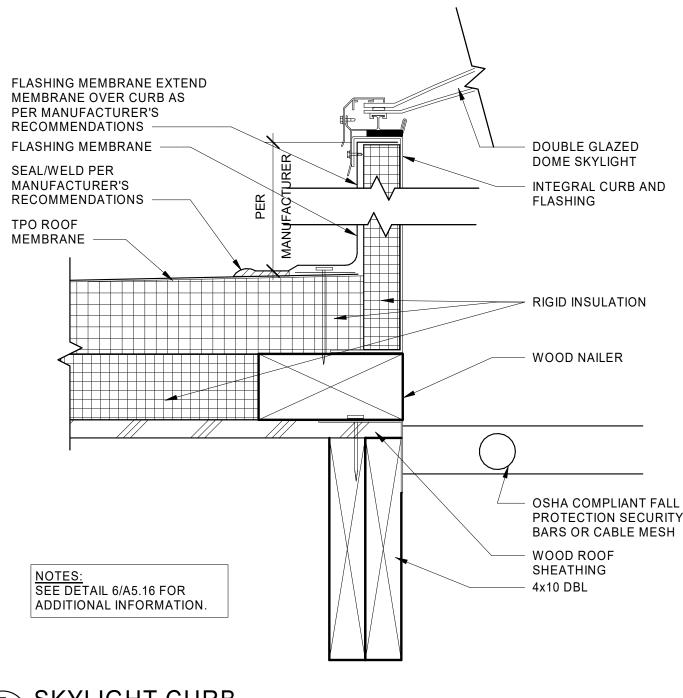


10 DOWNSPOUT GUARD PLAN A5.16 3" = 1'-0"





4 GUTTER EDGE A5.16 1 1/2" = 1'-0"





- PANEL ENDS, WHERE THEY

— L 4 X 4 X 1/4 X 4'-0" LONG, W/ (3)

— 6" X 6" DOWNSPOUT, TYP

IN HALF

PRIOR TO CONSTRUCTION

1/2" Ø SLEEVE ANCHOR EA SÌDE

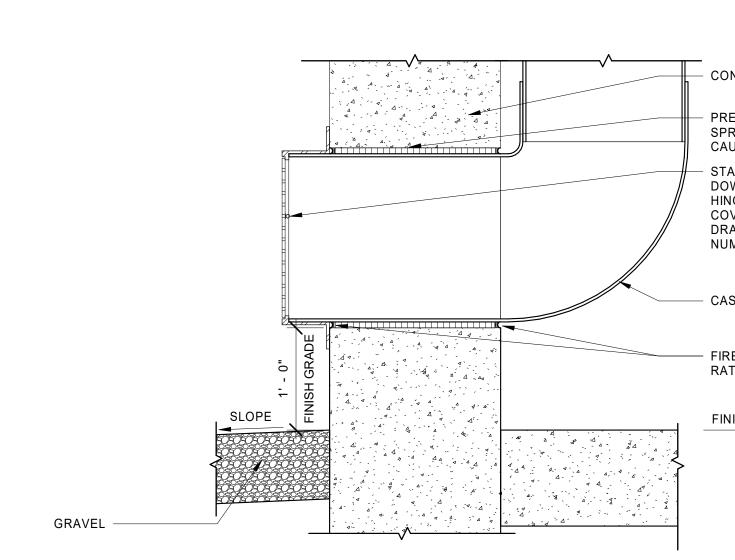
— HSS 8 X 8 X 1/4 X 2'-6" LONG, CUT

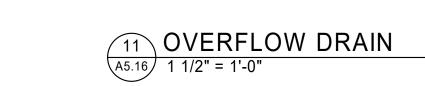
— STORM LINE, SEE CIVIL DWG'S

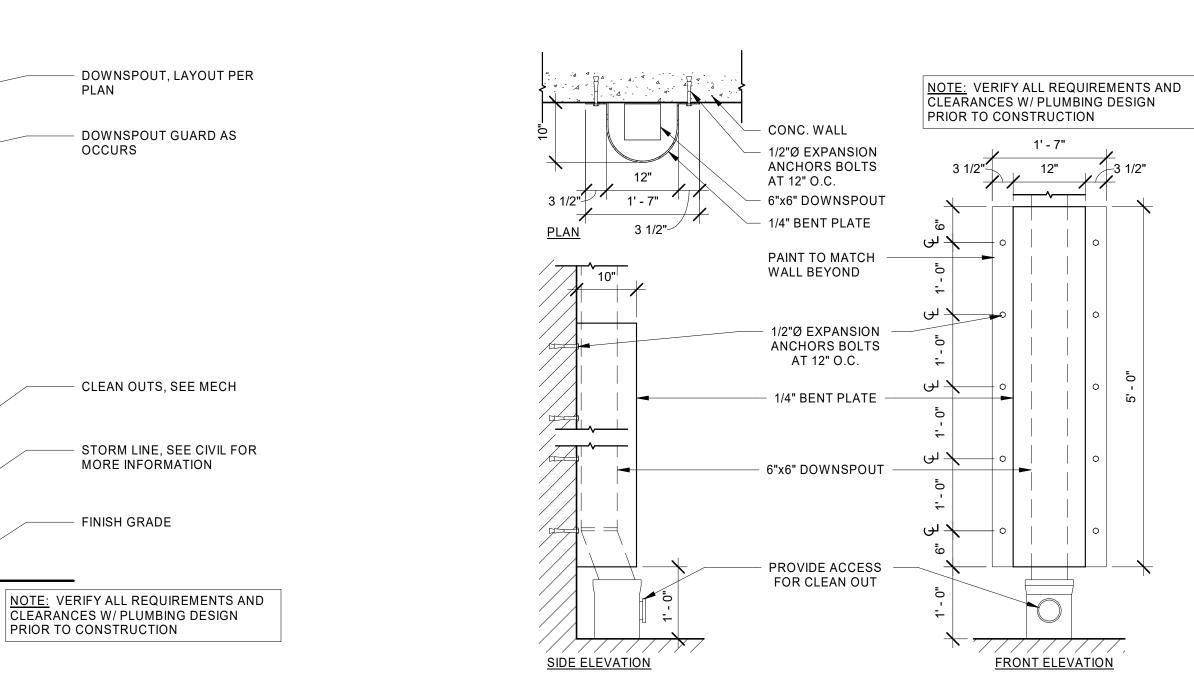
NOTE: VERIFY ALL REQUIREMENTS AND

CLEARANCES W/ PLUMBING DESIGN

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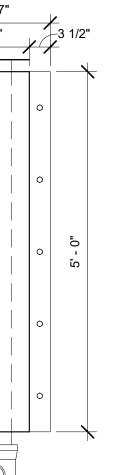
- CONCRETE WALL PANEL

- PRECAST OPENING. APPLY SPRAY FOAM INSULATION AND CAULK EACH OUTSIDE JOINT - STAINLESS STEEL DOWNSPOUT COVER WITH HINGED PERFORATED

COVER - REFER TO PLUMBING DRAWINGS FOR MODEL NUMBERS

— CAST IRON PIPE/ELBOW

- FIRE SEALANT, 3-HOUR FIRE RATING INSTALL PER UL C-AJ-001



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SHEET



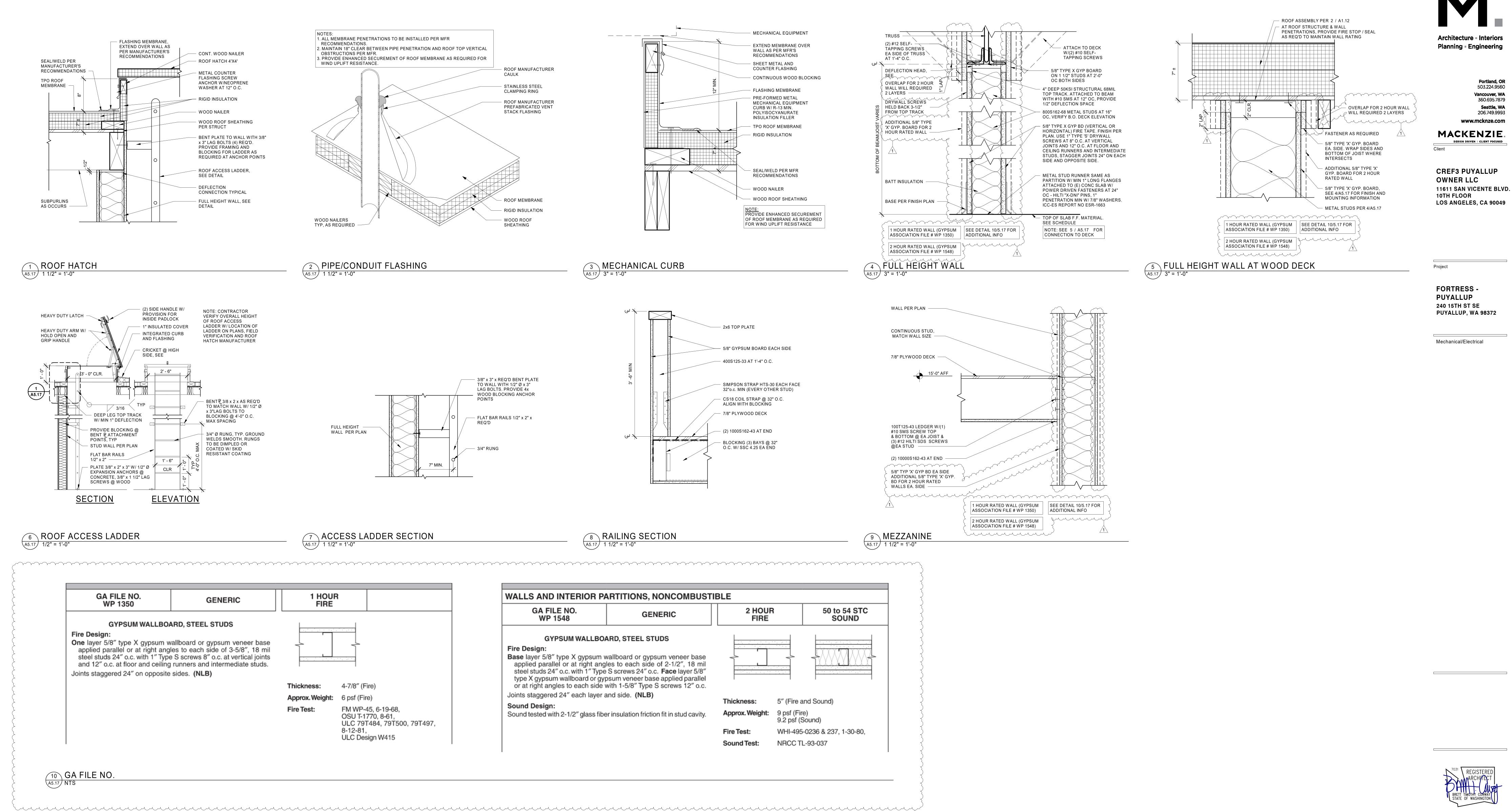
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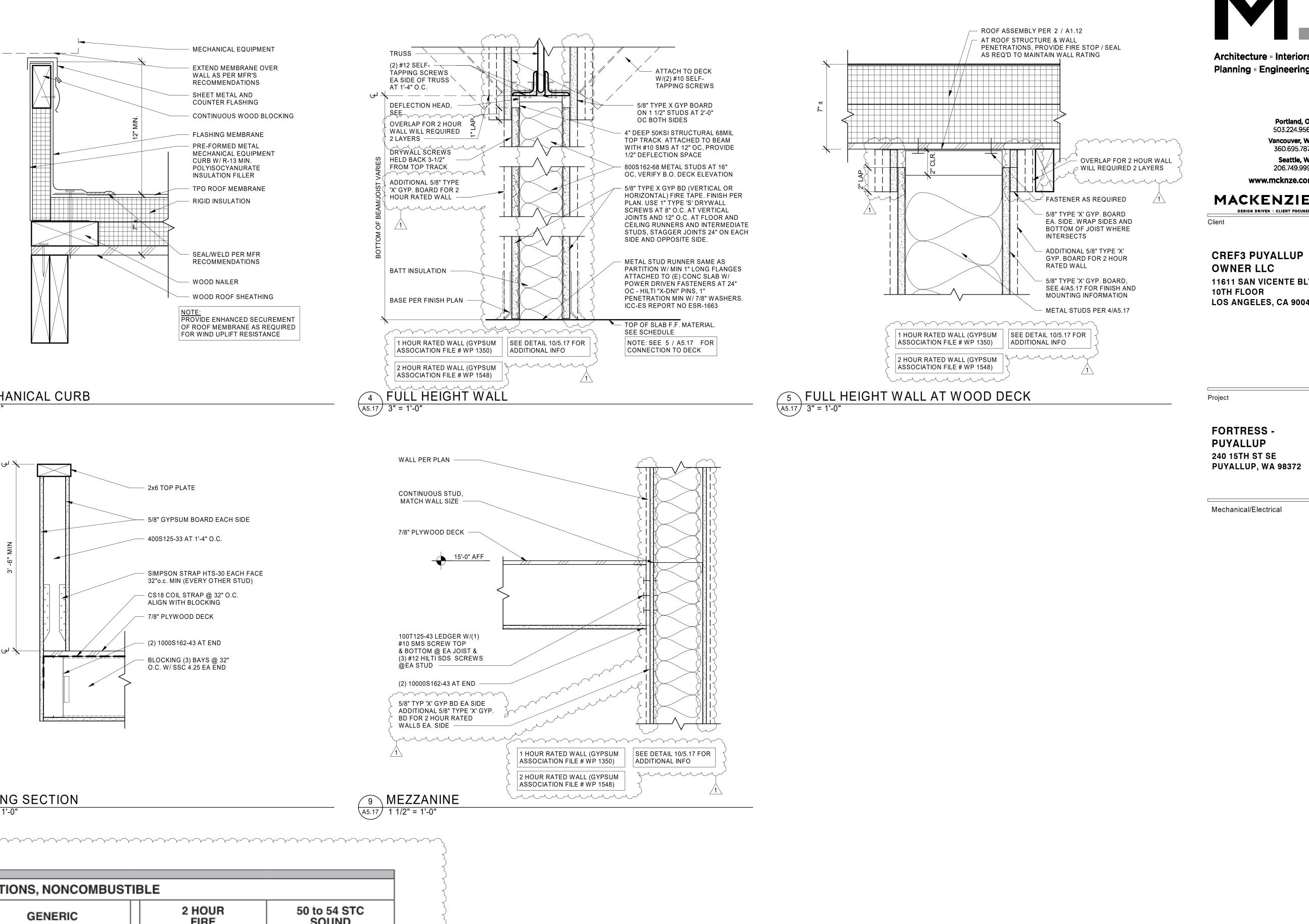
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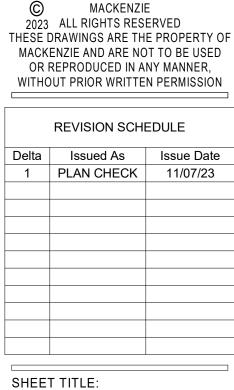
REVISION SCHEDULE

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| DOOR SCHEDULE | | | | | | | | | | | | |
|---------------|---------|---------|--------|------|-------|--------|-------|-------|--------|---------|---------|----|
| | DOOR | | | | | | FRAME | | | DETAIL | | |
| DOOR | WIDTH | HEIGHT | THK | TYPE | MAT'L | FINISH | TYPE | MAT'L | FINISH | HEAD | JAMB | S |
| 101 | 6' - 0" | 7' - 0" | | Α | AL/GL | PREFIN | SF | AL | FF | _ | _ | 5 |
| 102 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | НМ | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 103 | 6' - 0" | 7' - 0" | | А | AL/GL | PREFIN | SF | AL | FF | - | - | 5 |
| 104 | 3' - 0" | 7' - 0" | 1 3/4" | С | НМ | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 111 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 119 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 127 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 133 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | НМ | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 134 | 3' - 0" | 7' - 0" | 1 3/4" | E | HM | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 135 | 6' - 0" | 7' - 0" | 1 3/4" | D | HM | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 136 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 137 | 6' - 0" | 7' - 0" | | А | AL/GL | PREFIN | SF | AL | FF | - | - | 5 |
| 138 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 139 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 140 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 141 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | HM | STL | Р | 4/A5.12 | 4/A5.12 | 12 |
| 142 | 3' - 0" | 7' - 0" | 1 3/4" | В | HM | Р | НМ | STL | Р | 4/A5.12 | 4/A5.12 | 12 |

| | | | | - | | DOCK | | | IEDUL | | | | I |
|------|----------|----------|--------|------|-------|--------|------|-------|--------|------|---------|----------|-------|
| | DOOR | | | | | | | FRAME | | | DETAIL | | HDWR |
| DOOR | WIDTH | HEIGHT | ТНК | TYPE | MAT'L | FINISH | TYPE | MAT'L | FINISH | HEAD | JAMB | SILL | GROUP |
| | 1 | 1 | | | 1 | 1 | | 1 | 1 | | 1 | | |
| 105 | 12' - 0" | 16' - 0" | 1 1/2" | G | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 106 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 107 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 108 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 109 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 110 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 112 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 113 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 114 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 115 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 116 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 117 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 118 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 120 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 121 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 122 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 123 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 124 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 125 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 126 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 128 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 129 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 130 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 131 | 9' - 0" | 10' - 0" | 1 1/2" | F | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |
| 132 | 12' - 0" | 16' - 0" | 1 1/2" | G | - | PREFIN | - | STL | GL/FF | | 3/A5.12 | 10/A5.14 | H4 |

DOOR HARDWARE GROUPS

<u>GROUP H1:</u> STOREFRONT ENTRY DOORS

CONTINUOUS HINGE PANIC HARDWARE

EXTERIOR PULL OVERHEAD CLOSER

<u>GROUP H3:</u> FIRE SPRINKLER ROOM

1 1/2 PAIR HINGES 1 THRESHOLD

CLOSER

THRESHOLD FULL SET WEATHER STRIPPING SWEEP

<u>GROUP H2:</u> EXTERIOR MAN DOORS

- 1 1/2 PAIR HINGES 1 THRESHOLD 1 LEVER HANDLE MORTISE (EXTERIOR) 1 CLOSER
- 1 FULL SET WEATHER STRIPPING 1 PANIC ALARM UPON OPENING

<u>GROUP H4:</u> OVERHEAD DOCK DOORS

- FULL SET WEATHERSTRIP PACKAGE PROVISION FOR PADLOCK

<u>GROUP H5:</u> ELECTRICAL ROOM

PW

OHI

STL

VP

W

1 1/2 PAIR HINGES 1 THRESHOLD LEVER HANDLE MORTISE (EXTERIOR) PANIC HARDWARE (INTERIOR) CLOSER FULL SET WEATHER STRIPPING

1 PANIC ALARM UPON OPENING

ABBREVIATIONS

1 LOCK GUARD & DRIP GUARD

ALUMINUM

| AL |
|--------|
| ELO |
| FF |
| FL |
| GLZ/GL |
| HM |
| HMI |
| HMW |
| Р |

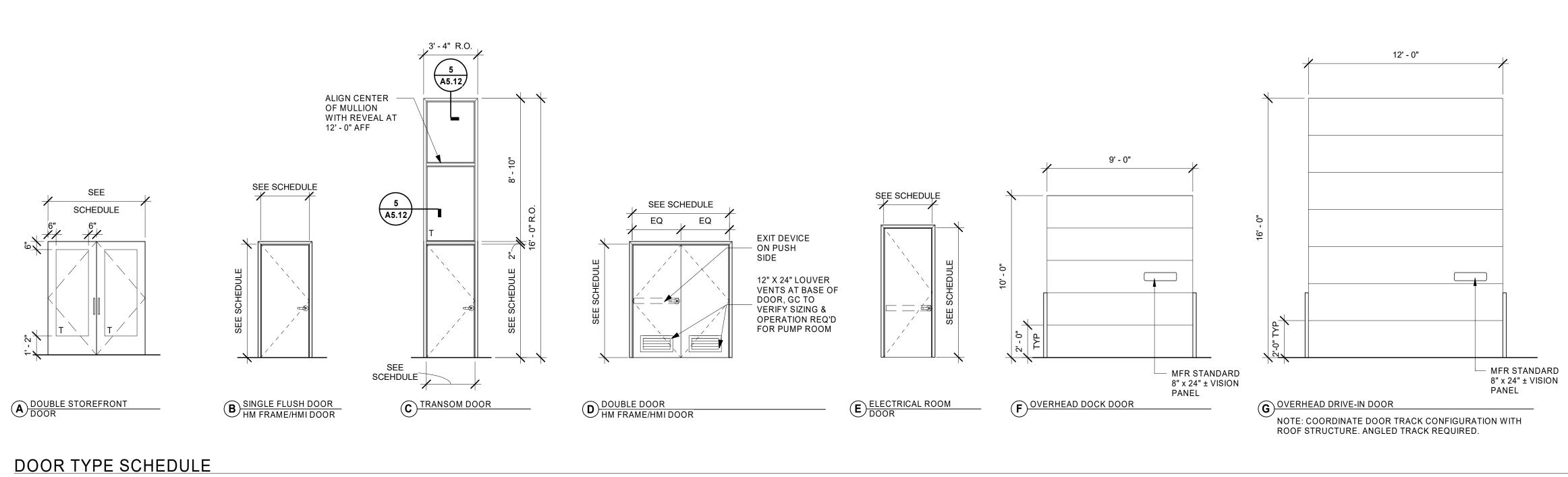
| ELECTRONICALLY OPERATED | |
|-------------------------|--|
| FACTORY FINISH | |
| FULL LIGHT | |
| GLAZING | |
| HOLLOW METAL | |
| HOLLOW METAL INSULATED | |
| HOLLOW METAL WELDED | |
| PAINT | |

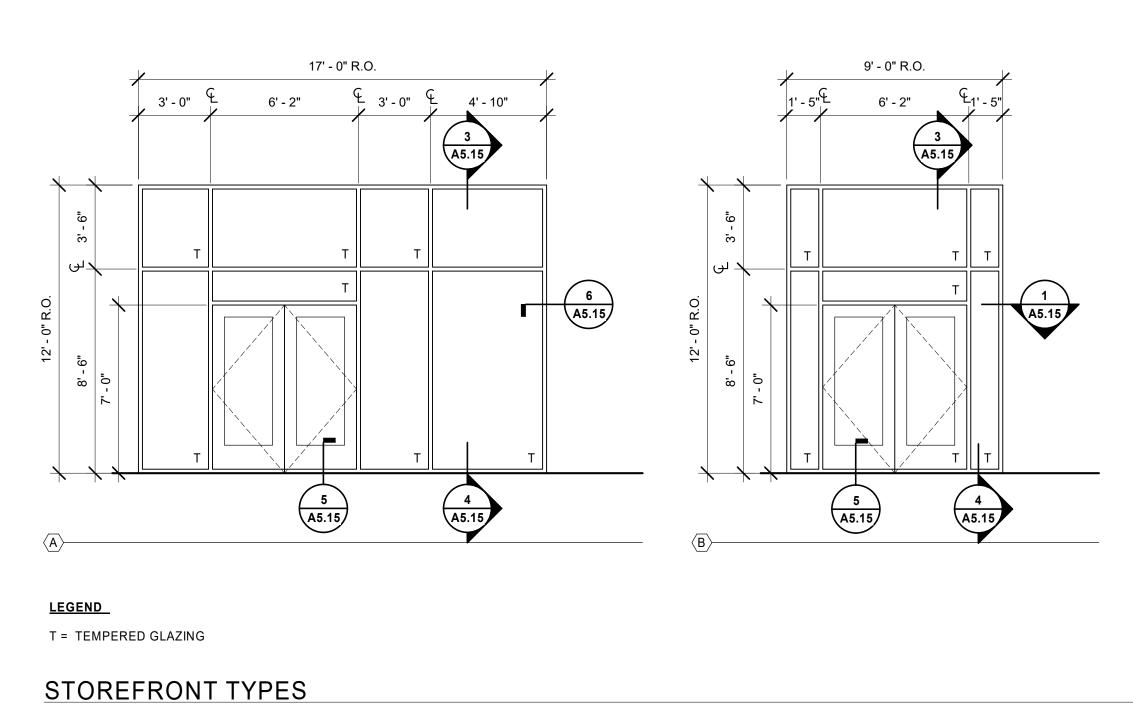
LEVER HANDLE MORTISE (EXTERIOR) FULL SET WEATHER STRIPPING DOOR BOTTOM SWEEP

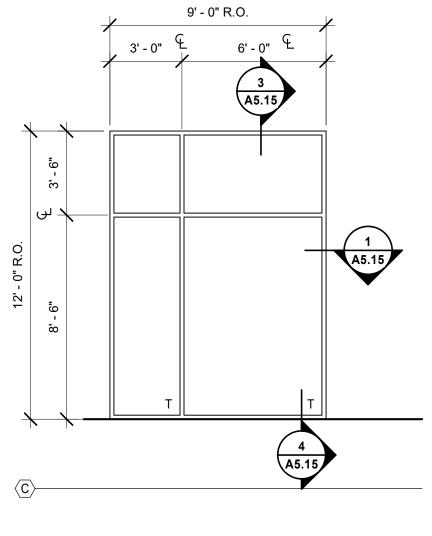
PREFINISHED WOOD OVERHEAD DOOR INSULATED STAINED SOLID CORE STOREFRONT STEEL

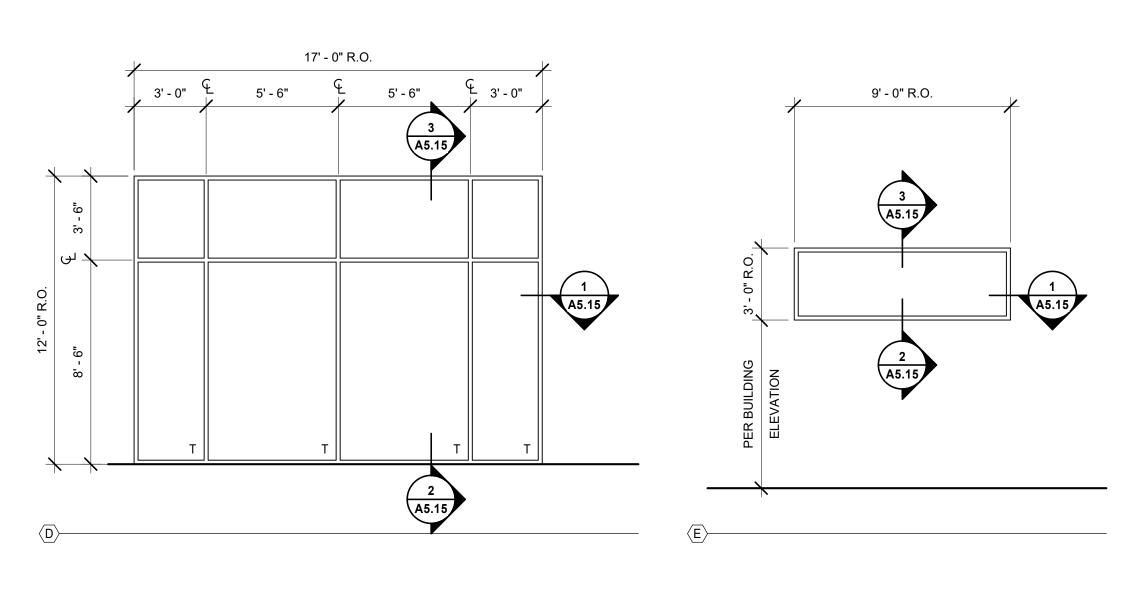
TEMPERED VISION PANEL WOOD

| SILL | HDWR GROUP | RATING | COMMENTS |
|--|---|--------|----------|
| | | | |
| 5/A5.15 | H1 | | |
| 12/A5.14 | H2 | | |
| 5/A5.15 | H1 | | |
| 12/A5.14 | H2 | | |
| 12/A5.14 | H5 | | |
| 12/A5.14 | H3 | | |
| 12/A5.14 | H2 | | |
| 5/A5.15 | H1 | | |
| 12/A5.14 | H2 | 3 HOUR | |
| 12/A5.14 | H2 | 3 HOUR | |
| 12/A5.14 | H2 | 3 HOUR | |
| 12/A5.14 | H2 | 3 HOUR | |
| | H2 | 3 HOUR | |
| 12/A5.14 | 112 | | |
| | HDWR | DATING | COMMENTS |
| 12/A5.14 | | RATING | COMMENTS |
| SILL | HDWR GROUP | RATING | COMMENTS |
| SILL 0/A5.14 | HDWR GROUP H4 | RATING | COMMENTS |
| SILL 0/A5.14 0/A5.14 | HDWR GROUP H4 H4 | RATING | COMMENTS |
| SILL 0/A5.14 0/A5.14 0/A5.14 | HDWR GROUP H4 | RATING | COMMENTS |
| SILL 0/A5.14 0/A5.14 0/A5.14 0/A5.14 | HDWR GROUP H4 H4 H4 H4 H4 | RATING | COMMENTS |
| SILL 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 | HDWR GROUP H4 H4 H4 | RATING | COMMENTS |
| SILL 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 | HDWR GROUP H4 H4 H4 H4 H4 H4 | RATING | COMMENTS |
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| SILL 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 | HDWR GROUP H4 H4 H4 H4 H4 H4 H4 H4 H4 H4 H4 H4 H4 | RATING | |
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| SILL 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 0/A5.14 | HDWR GROUP H4 H4 H4 H4 H4 H4 H4 H4 H4 H4 H4 H4 H4 | | |











Portland, OR 503.224.9560 **Vancouver, WA** 360.695.7879 **Seattle, WA** 206.749.9993 www.mcknze.com

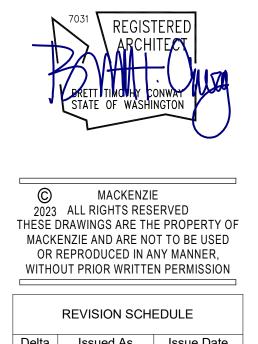
MACKENZIE. DESIGN DRIVEN | CLIENT FOCUSED Client

CREF3 PUYALLUP OWNER LLC 11611 SAN VICENTE BLVD. 10TH FLOOR LOS ANGELES, CA 90049

Project

> FORTRESS -PUYALLUP 240 15TH ST SE PUYALLUP, WA 98372

Mechanical/Electrical



| REVISION SCHEDULE | | | | | | | | |
|-------------------|-----------|------------|--|--|--|--|--|--|
| Delta | Issued As | Issue Date | | | | | | |
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| SHEET TITLE: | | | | | | | | |

DOOR AND WINDOW SCHEDULE

SHEET



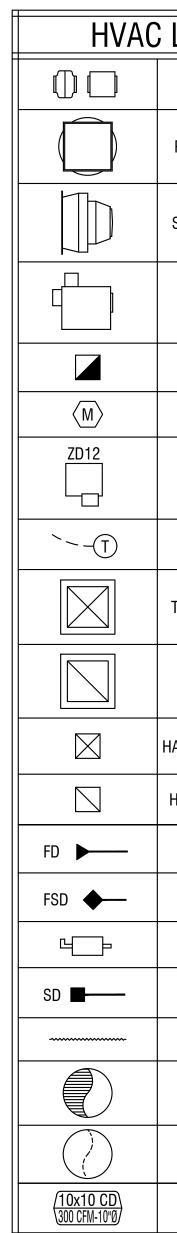
PERMIT SET 6/28/2023 Autodesk Docs://Fortress-Puyallup/290-Fortress-Puyallup-V23-A.rvt 6/28/2023 2:48:18 PM As indicated

HIGH EFFICIENCY GAS UNIT HEATER SCHEDULE

| | D | BRAND NAME | MODEL NUMBER | CFM | Btuh INPUT | Btuh OUTPUT | EFFICIENCY | GAS CONNECTION | VENT OUTLET | V/PH | FLA | WT. |
|----|-----|------------|--------------|-------|------------|-------------|------------|-------------------|----------------|--------|--------|---------|
| UH | 1-4 | MODINE | PTC180 | 3,020 | 180,000 | 167,400 | 93% | 1/2 | 4"Ø | 115/1Ø | 3.73 A | 215 LBS |

| FAN | SCHE | DULE | | | | | | | | |
|--------|------------|--------------|-------|-------|--------|------|-------|-----------------|----------------|----------|
| ID | BRAND NAME | MODEL NUMBER | CFM | SP | HP/AMP | FLOW | V/PH | SOUND RATING | DUCT | LOCATION |
| EF 1-4 | ILG | CRBA13 | 2,000 | .125" | 1/2 HP | CV | 208/1 | 14.4 SONES | 14"x14" B.D.D. | ROOF |

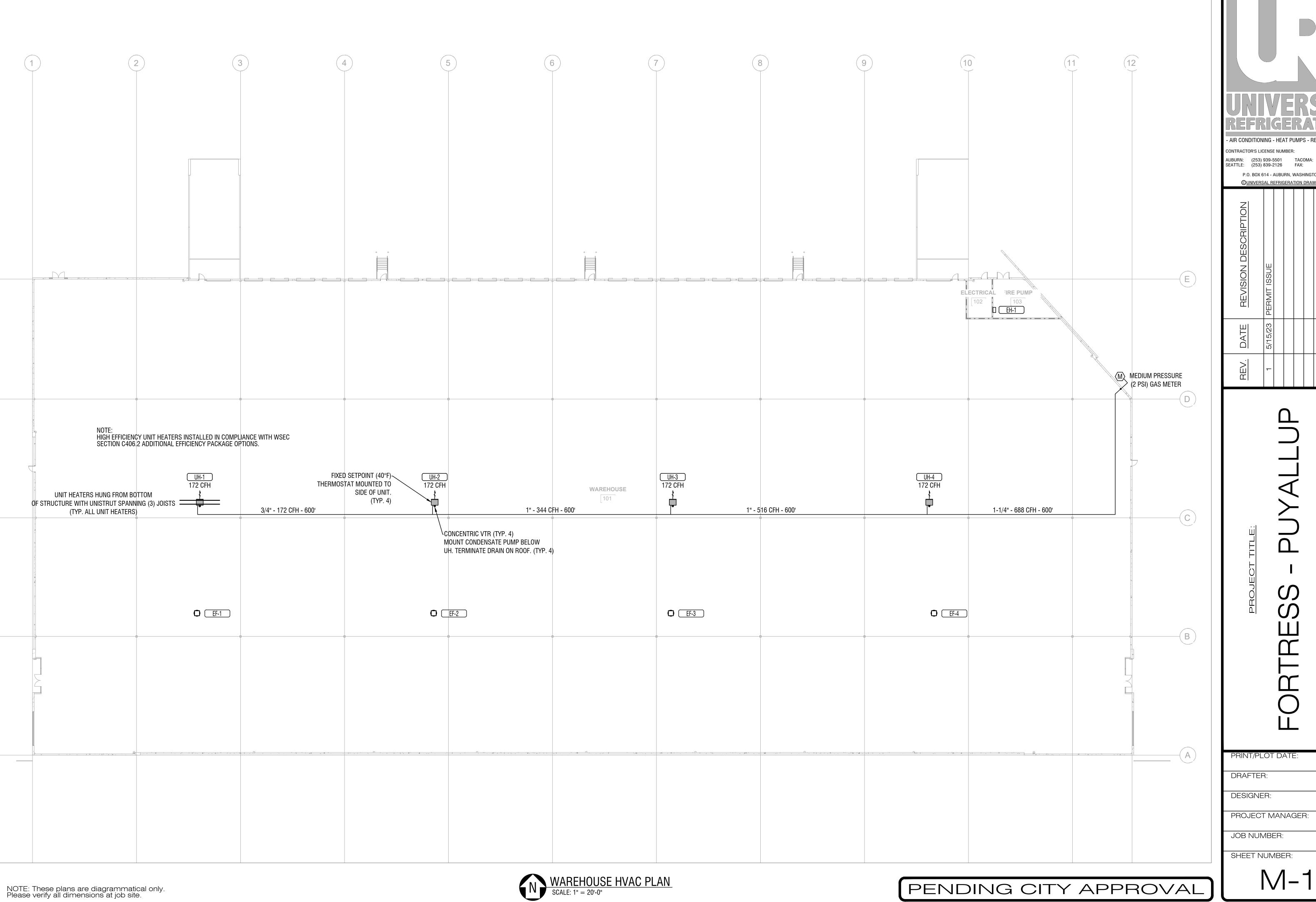
| | | 1 8 | |
|-------------|--|-----|-----------|
| | AC ABBREVIATIONS | | |
| AFF | ABOVE FINISHED FLOOR | | ſſ |
| | | | <u>``</u> |
| BTUH | | | Г |
| | CEILING DIFFUSER | | 1 |
| | | | I I |
| | | | |
| | DECIBEL | | F |
| | | | |
| | DEDICATED OUTSIDE AIR SYSTEM | | |
| | | | |
| | EVAPORATOR COIL | | Г |
| | ENERGY EFFICIENCY RATIO | | Г |
| | EXHAUST FAN | | 4 |
| | | | L |
| | ENERGY RECOVERY VENTILATOR EXTERNAL STATIC PRESSURE | | |
| | EXTERNAL STATIC PRESSURE EXHAUST | | |
| | FAN COIL UNIT | | |
| | FIRE DAMPER, FLOOR DRAIN | | |
| | FEET PER MINUTE | | |
| | FIRE AND SMOKE DAMPER | | |
| | GAUGE | | ſ |
| | GAS FURNACE | | |
| GRD | | | |
| HP | | | 、 |
| ID | INSIDE DIMENSION | | |
| IHP | INDOOR (SECTION) HEAT PUMP | | |
| IRH | INFRARED HEATER | | 1 |
| KW | KILOWATT | | |
| MBH | THOUSAND BTU PER HOUR | | |
| MCD | MOTORIZED CONTROL DAMPER | | |
| NC | NOISE CRITERIA | | Ĩ |
| NIC | NOT IN CONTRACT | | |
| NTS | NOT TO SCALE | | Ľ |
| OBD | OPPOSED BLADE DAMPER | | |
| 00 | ON CENTER | | |
| OD | OUTSIDE DIMENSION OR DIAMETER | | |
| OHP | | | |
| OSA OSCI | OUTSIDE AIR OWNER SUPPLIED CONTR. INSTALLED | | |
| POC | POINT OF CONNECTION | | |
| RA | RETURN AIR | | FD |
| RAG | RETURN AIR GRILLE | | |
| RPM | REVOLUTIONS PER MINUTE | | FSD |
| RTU | ROOFTOP UNIT | | гэр |
| SA | SUPPLY AIR | | _ |
| SG | SUPPLY GRILLE | | Ŀ |
| SP | STATIC PRESSURE | | |
| | SIDEWALL SUPPLY GRILLE | | SD |
| TBD | TO BE DETERMINED | | |
| TG | TRANSFER GRILLE | | |
| TYP | TYPICAL | | |
| UH | UNIT HEATER | | |
| VFD | VARIABLE FREQUENCY DRIVE | | |
| VTR | | | Æ |
| VVT | VARIABLE VOLUME AND TEMPERATURE | | |
| 1 | | 1 | |



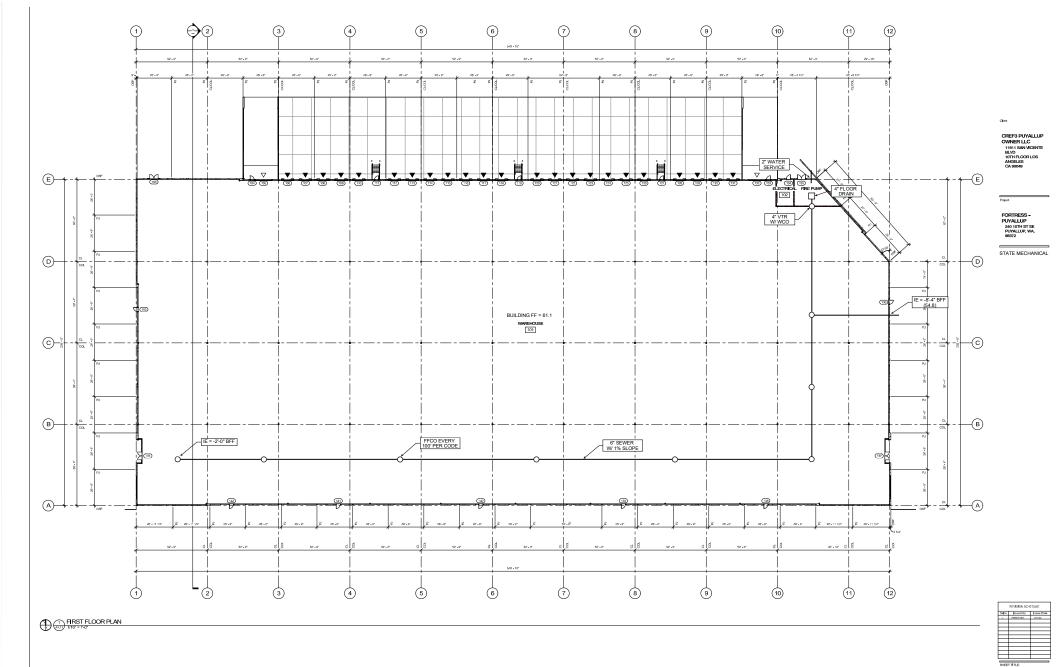
WT.

WEIGHT 117 LBS

| HVAC | CLEGEND | HVAC NOTES | | | |
|--------------------------------|----------------------------------|--|------------------------------------|---|-----------------------------|
| \bigcirc | INLINE EXHAUST FAN(S) | 1. DUCT INSULATION TO MEET THE REQUIREMENTS OF SECT- ION C403.10 OF THE 2018 WSEC AND SECTION 604 OF | | | |
| | ROOFTOP EXHAUST FAN | THE IECC (INTERNATIONAL ENERGY CONSERVATION CODE). SMOKE DETECTOR(S) INSTALLED IN MAIN RETURN AIR DUCTS PER SECTION 606 OF THE 2018 IMC. HVAC SMOKE DUCT DETECTORS SHALL SHUT DOWN POWER TO THE | | | |
| | SIDEWALL EXHAUST FAN | UNIT UPON ACTIVATION AND A "SUPERVISORY" ZONE SHALL BE INITIATED AT FIRE ALARM PANEL UPON SMOKE DUCT DETECTOR ACTIVATION. 2018 IMC SECTION 606.4 & 604.6.1. | | | |
| | VAV FAN BOX | SUPPLY & RETURN AIR DUCT IS MIN. R-6 IN UNCONDITIONED SPACES & MIN. R-8 WHEN LOCATED OUTSIDE OF BUILDING AS PER THE 2018 WSEC C403.10.1.2. | UN REF | RIGERATI | |
| $\overline{\langle M \rangle}$ | CEILING EXHAUST FAN GAS METER | 4. ALL SINGLE PACKAGE HVAC UNITS SHALL BE INSTALLED WITH ECONOMIZERS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS PER 2018 IMC, SECTION 403 AND SHALL OPERATE PER 2018 WSEC, SECTION C403.5.1. | CONTRACTOR'S | 53) 939-5501 TACOMA: (2 | IVERI 159RF 53) 922-3141 |
| ZD12 | VVT DAMPER | 5. EQUIPMENT INSTALLATION INSTRUCTIONS TO BE ON-SITE FOR INSPECTIONS. 6. ALL HVAC EQMT. TO BE LABELED TO THE SPACE SERVED. | | 53) 839-2126 FAX: (2 OX 614 - AUBURN, WASHINGTON 98 / <u>ERSAL REFRIGERATION DRAWING-</u> | |
| `~-(Ţ) | THERMOSTAT | 7. DUCTS TO BE SUPPORTED AT EACH DIRECTION CHANGE VERTICAL AT 12'-0" MAX., HORIZONTAL AT 10'-0" MAX. WITH STRAP, OR 8'-0" MAX. TRAPEZE SUPPORT. | CRIPTION | | |
| | T-BAR SUPPLY DIFFUSER | 8. THERMOSTAT TO BE SEVEN-DAY TYPE AND HAVE NIGHT SETBACK WITH 5 DEGREE DEADBAND. 9. THE HVAC INSTALLATION SHALL BE COMPLETE WHEN ALL | DESCRI | | |
| | T-BAR RETURN GRILLE | SECTIONS OF 2018 WSEC C408 HAVE BEEN SATISFIED. THIS SHALL INCLUDE AS-BUILT DRAWINGS, SUBMITTALS, O&M MANUALS, SYSTEM BALANCE REPORT, AND A COMMIS- SIONING REPORT. | JEVISION D | LISSUE | |
| \square | HARDLID SUPPLY DIFFUSER | 10. DUCT SEALING SHALL MEET REQUIREMENTS OF 2018 WSEC C403.10.2. DUCT WORK WHICH IS DESIGNATED TO | REV | ERMIT | |
| | HARDLID RETURN GRILLE | OPERATE AT PRESSURES ABOVE 1/2" WATER COLUMN STATIC PRESSURE SHALL BE SEALED AS FOLLOWS: | μl | 2/23 D | |
| | FIRE DAMPER | 1. STATIC PRESSURE 1/2 INCH TO 2 INCHES: SEAL ALL TRANSVERSE JOINTS AND LONGITUDINAL SEAMS. SPIRAL LOCK SEAMS IN ROUND AND FLAT OVAL DUCT | DATE | 5/15// | |
| SD 🔶 — | FIRE SMOKE DAMPER | WORK DO NOT REQUIRE SEALING; HOWEVER, OTHER SEAMS SHALL BE SEALED. | REV. | | |
| Ľ | VOLUME DAMPER | 11. 2018 WSEC FORMS, DUCT PLANS, BALANCING FEATURES, AS WELL AS VENTILATION REQUIREMENTS (AS PER TABLE | | | |
| D | SMOKE DETECTOR | 403.3.1.1, 2018 IMC MINIMUM VENTILATION RATES) AND OCCUPANCY, ALONG WITH A MECHANICAL PERMIT AT THE TIME OF THE TENANT IMPROVEMENT PERMIT. | | • | |
| | FLEXIBLE DUCT SA/RA | | | | 2 / 2 2 |
| | ROUND DUCT UP | SCOPE OF WORK JOB# 23xxx | | | |
| | ROUND DUCT DOWN | 1. INSTALL (1) ELECTRIC WALL HEATER. 2. INSTALL (4) ROOFTOP EXHAUST FANS. | | | $\langle \rangle$ |
| (10x10 CD) \300 CFM-10"Ø) | DIFFUSER TAG | INSTALL (4) GAS FIRED UNIT HEATERS. INSTALL NATURAL GAS PIPING. | | ्र | > > |
| | WAF | | PROJECT TITLE: | | 240 1914 ST. SE. PUYALLU |
| | | | DRAFT DESIGN PROJE JOB NU | NER: CT MANAGER: UMBER: | ARW BG 23xxx |
| LDE | NDING | CITY APPROVAL | | | |



| UN | | | | | | | | |
|--|--|---------------------------|----------------------|--------------|------------------------|--------------------------------------|-------------------------|-----------|
| - AIR CONDITION CONTRACTOR'S LIC AUBURN: (253) | CENSE NUI 939-5501 839-2126 14 - AUBL | MBER: 1 F JRN, W | FACC FAX: ∕ASH |)MA: INGT | UN (2 (2 ON 9 | IIVER 253) 9 253) 7 8071 | I 159 922-3 735-3 | RF 141 |
| REVISION DESCRIPTION | 5/15/23 PERMIT ISSUE | | | | | | | |
| DATE | 5/15/23 | | | | | | | |
| REV. | - | | | | | | | |
| PROJECT TITLE: | | | | | | 240 151H ST. SE. PUYALLUP, WA. 98372 | | |
| PRINT/PL | ? : | ATE | • | | | A | RW | / |
| DESIGNE | | VAG | ίΕF | २ : | | | BC | |
| JOB NUN | | | | | | 23 | | |
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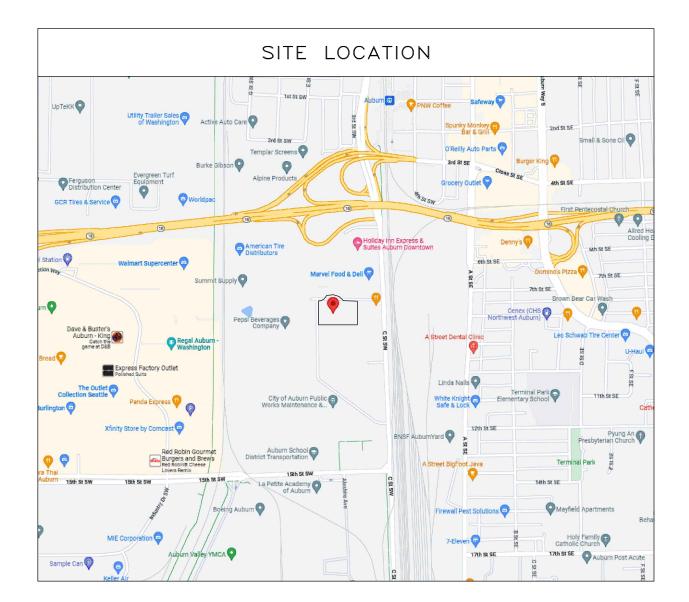


WATER AND SEWER PLAN

PUYALLUP



ELECTRICAL DRAWINGS



APPLICABLE CODES AND STANDARDS

2020 NATIONAL ELECTRICAL CODE (NEC) WITH LOCAL AND STATE AMENDMENTS

2018 WASHINGTON STATE ENERGY CODE (WSEC/NREC)

DESCRIPTION OF WORK:





INDUSTRIAL BUILDING, WAREHOUSE. 129,092 SQFT

DR

www.kirbyelectric.com

ELECTRICAL SHEET INDEX

| Sheet Number | Sheet Title |
|--------------|------------------------|
| E0.00 | COVER SHEET |
| E0.01 | EQUIPMENT SCHEDULE |
| E0.02 | LIGHTING SUMMARY |
| E1.01 | SITE PLAN |
| E1.02 | SITE PHOTOMETRIC |
| E2.01 | POWER PLAN |
| E3.01 | LIGHTING PLAN |
| E3.02 | INTERIOR PHOTOMETRIC |
| E5.01 | PANEL SCHEDULES |
| E6.01 | ONE-LINE RISER DIAGRAM |

| | 8001 |
|---|--|
| | 4826 "B" St. NW • Suite 101 • Auburn, WA 98001 P: (253) 859-2000 • F: (253) 859-2363 www.kirbyelectric.com |
| | Auburr 33) 859 |
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| | JOB CONTACTS | |
|---------------------------|-----------------|--------------------------|
| PROJECT MANAGER | VITALIY KALCHIK | VITALY@KIRBYELECTRIC.COM |
| FOREMAN | T.B.D. | T.B.D. |
| RAWING/DESIGN INFORMATION | BRIAN MISHCHUK | BRIANM@KIRBYELECTRIC.COM |

| | | CHEDULE | | | | | |
|---------|------------|---|--------------|--|----------------|------------|----------|
| CALLOUT | SYMBOL | DESCRIPTION | MOUNTING | MODEL | INPUT WATTS | VOLTS | QUANTITY |
| DL | \bigcirc | LED DOWN LIGHT | CEILING | JUNO JSF-13N-18LM-40K-90CRI-MVOLT-ZT-WH | 20.2 | 277V 1P 2W | 8 |
| F1 | | LED HIGHBAY W/ INTEGRAL OCCUPANCY SENSOR | CEILING | ENVISION LED-LHB-4FT-3P320W | 325.01 | 277V 1P 2W | 17 |
| F2 | · | 8' LED STRIP LIGHT | CEILING | COOPER METALUX 8SLSTP8040DD-UNV | 79 | 120V 1P 2W | 4 |
| Ρ | | LED POLE LIGHT | POLE/WALL | LITHONIA RSXF3-LED-P4-40K-AWFD | 311.92 | 277V 1P 2W | 2 |
| WM1 | | WALL MOUNT FIXTURE | WALL | LITHONIA RSXF1-LED-P2-40K-SP | 72.95 | 277V 1P 2W | 11 |
| WM2 | | WALL MOUNT FIXTURE | WALL | LITHONIA RSXF2-LED-P3-40K-WFL | 149.98 | 277V 1P 2W | 1 |
| WM 3 | | EXTERIOR WALL MOUNT WEDGE FIXTURE | WALL | LITHONIA WDGE3-LED-P3-40K-70CRI-RFT-40K | 71.7 | 277V 1P 2W | 5 |
| WM4 | | EXTERIOR WALL MOUNT WEDGE FIXTURE | WALL | LITHONIA WDGE2-LED-P2-40K-70CRI-T2M | 18.9 | 277V 1P 2W | 10 |
| WMF | | WALL MOUNT FIXTURE | CEILING | LITHONIA RSXF3-LED-P4-40K-NFL | 311.92 | 277V 1P 2W | 5 |
| X1 | | LED EXIT AND EMERGENCY SIGN | WALL/CEILING | CPL APCH7G | 10 | 277V 1P 2W | 15 |
| X1R | ₩ | LED EMERGENCY LIGHTING REMOTE HEAD | WALL | CPL APWR1 | 10 | 277V 1P 2W | 15 |

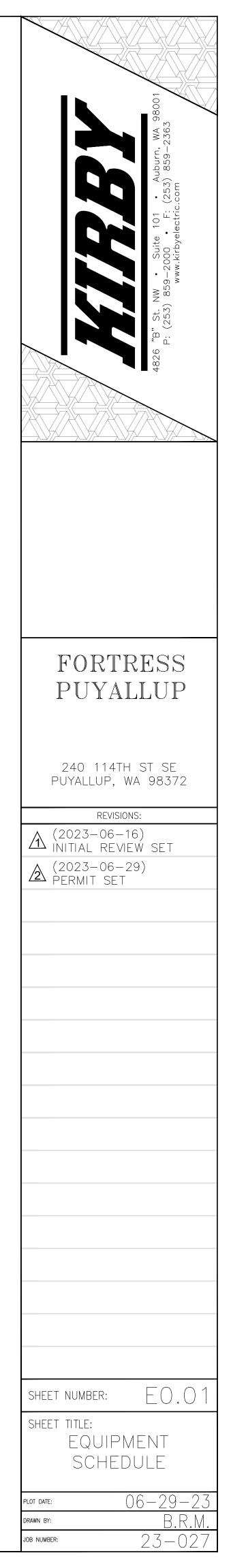
| EQUI | PMENT SCHEDULE | | | | | | |
|---------|------------------------------------|-----------|------------|------|--------|----------|--------------|
| CALLOUT | DESCRIPTION | SYMBOL | VOLTS | AMPS | HP | CIRCUIT | MAKE & MODEL |
| DFP-CO | DIESEL FIRE PUMP - CONNECTION ONLY | \otimes | 480V 3P 4W | 0.12 | F HP | | |
| EWH-1 | ELECTRIC WALL HEATER | \odot | 120V 1P 2W | 12.5 | | L1-12 | |
| REF-1 | ROOFTOP EXHAUST FAN | 0\$ | 208V 2P 2W | 7.96 | 3/4 HP | L1-1,3 | T.B.D |
| REF-2 | ROOFTOP EXHAUST FAN | Ø\$ | 208V 2P 2W | 7.96 | 3/4 HP | L1-7,9 | T.B.D |
| REF-3 | ROOFTOP EXHAUST FAN | 0\$ | 208V 2P 2W | 7.96 | 3/4 HP | L1-11,13 | T.B.D |
| REF-4 | ROOFTOP EXHAUST FAN | Ø\$ | 208V 2P 2W | 7.96 | 3/4 HP | L1-17,19 | T.B.D |
| UH-1 | GAS UNIT HEATER | 0\$ | 120V 1P 2W | 6.75 | | L1-5 | T.B.D. |
| UH-2 | GAS UNIT HEATER | Ø\$ | 120V 1P 2W | 6.75 | | L1-5 | T.B.D. |
| UH-3 | GAS UNIT HEATER | Ø\$ | 120V 1P 2W | 6.75 | | L1-15 | T.B.D. |
| UH-4 | GAS UNIT HEATER | 0\$ | 120V 1P 2W | 6.75 | | L1-15 | T.B.D. |

| SWITCH SC | HEDU | LE |
|----------------|--------|----------|
| CALLOUT | SYMBOL | QUANTITY |
| GENERIC SWITCH | \$ | 2 |
| TIMECLOCK | TC | 1 |

RECEPTACLE SCHEDULE

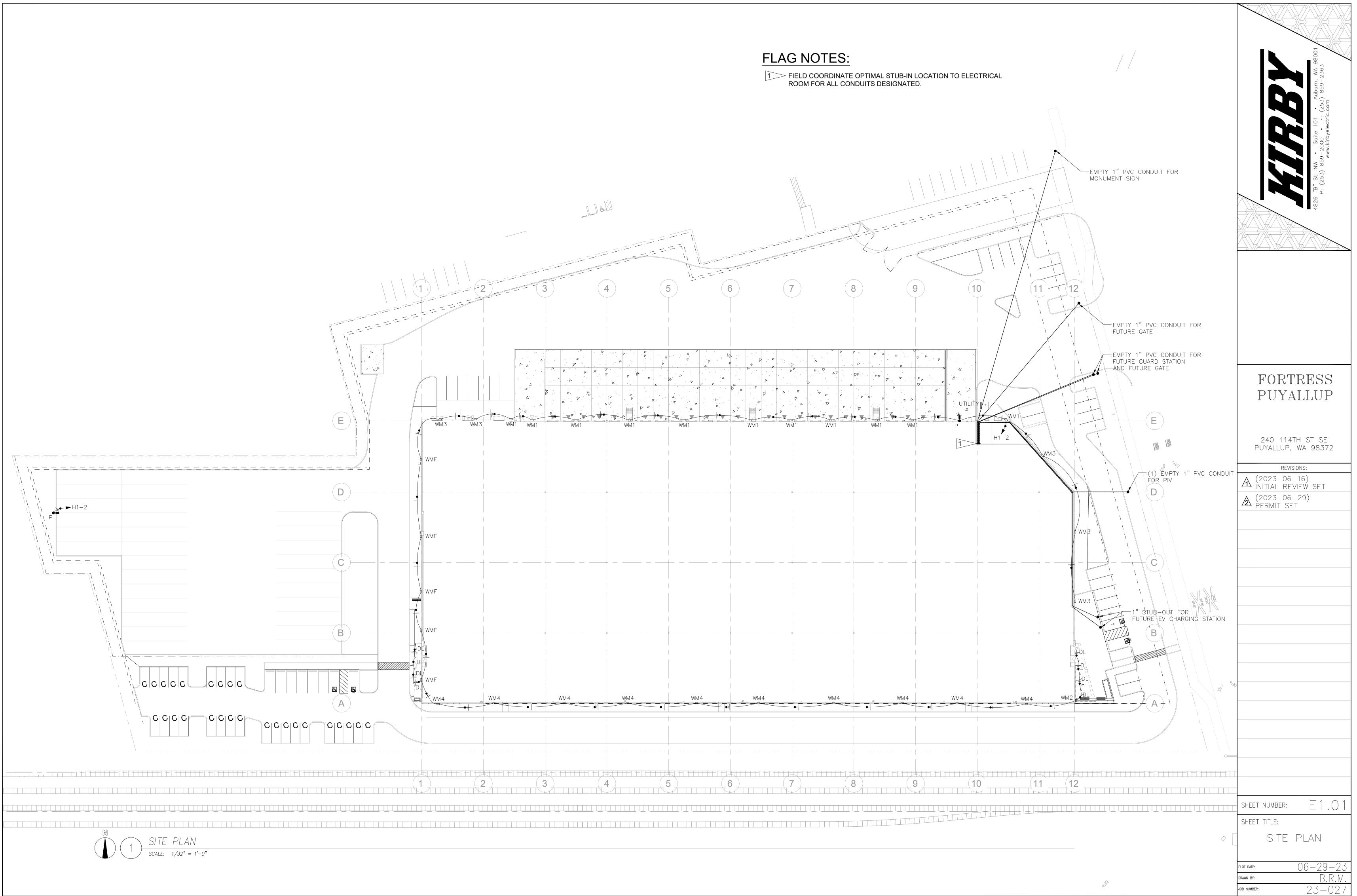
| CALLOUT | SYMBOL | VOLTS | FEATURES | ΟΠΑΝΤΙΤΥ |
|-----------------------|--------|------------|----------|----------|
| | | ,0010 | IDAIONED | QUANTIT |
| DEDICATED DUPLEX | D | 120V 1P 2W | GND | 3 |
| DEDICATED QUADPLEX | ⊕ D | 120V 1P 2W | GND | 1 |

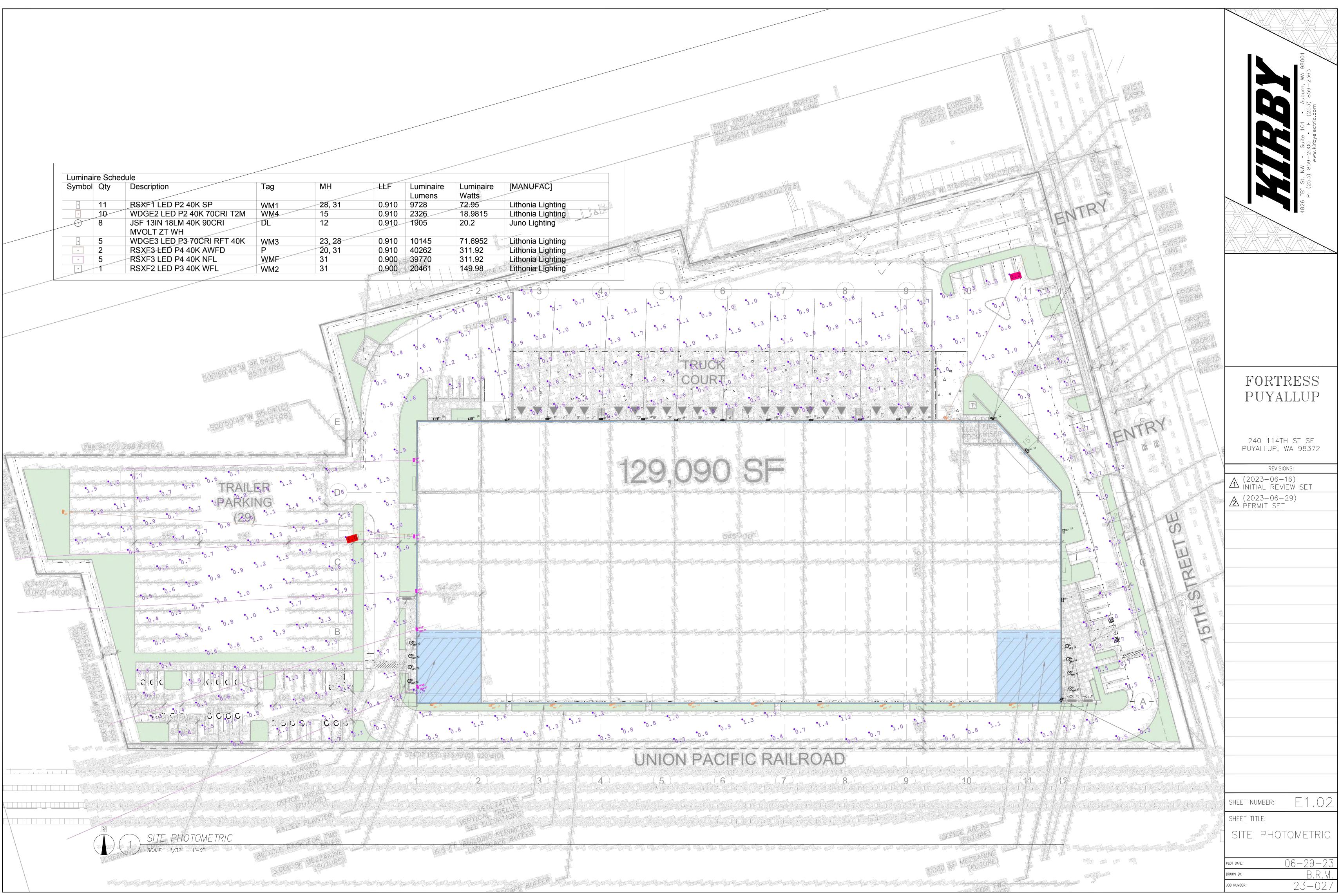
| WSEC | LIG | HT | ING | SL | JMN | IAR | Y (C | CON | \sqrt{TI} | NUI | ES | on i | PAGE . | ΕO | .02) |
|---|---------------|-------------|--|---------------------------------------|-----------------------|--|--|---|----------------------------|---------------------------|--|---|---|-----------|---|
| LIGHTING CO | MPLIA | NCE S | SUMMA | RY | | | | | | | | | | | |
| 2018 WSEC Compliance Fo | orms for Com | nmercial B | uildings includi | ng Group R2 | 2, R3 & R4 c | ver 3 stories a | nd all R1 | | | | | | Administered by: | ©2023 N | IEEA, All rights reserve |
| Project & Applicant Information | | 1 | Project Title Project Addres Applicant Nam Applicant Pho Applicant Ema | ie ne | | 240 11th St SE Puyallup, WA 98372 Brian Mishchuk 253-859-2000 brianm@kirbyelectric.com | | | | | partment Us | e: | | Date | : Jun 29, 202. |
| | | | | | ontact WSE | | ~ | | 0-539-5300 |) or via email | at com.tech | support@waenerg | gycodes.com | | |
| General Occupancy | | | All C | ommercial | | neral Buildin | g Use Type | | | Warehouse | , General Sto | | Cond. Floor Area | | 129,090 129,090 |
| General Project Types | | | New Building | New Buildi Addition Lighting So | | ppe Interior Lighting Alter Exterior Lighting Light | | | g Scope | | | Floors At Complia | oove Grade | Complia | 1 1 nce Method 1 - General |
| Lighting Project Descriptio | n | I | | | | | | INDUSTI | RIAL BUIL | LDING TILT- | UP WAREH | | | | |
| Lighting Complia and Meth | | - | Project Type New Building New Building | (Interior incl I | | 0 0 | | | nent Scope | | ce Method | Reduced lightin | PA Calculation Adjustment g power density option - pplicable to exterior | | Compliance Verificatio COMPLIES COMPLIES |
| Additional Eff Options Incl | | | | E | | ung | | | | | | Not aj | | | com lies |
| Project Title | Fortress - I | Puyallup | o - 2018 WSI | EC | | | | | | | | | Date | e Jur | n 29, 2023 |
| Lighting Power Calcul | ation | 1 | NEW BUILI | DING - IN | TERIOR | LIGHTIN | 5 | | | | | Co | ompliance Verificat | ion CO | MPLIES |
| Compliance Method | | • | | Space by sp | ace | | LP | A Calcula | tion Adjus | stment | • | | | LPA x | 0.8 |
| | | | | | C 11 | Interior Lig | hting Power A | Allowance | e - Space by | y Space | | | T () D () W | | |
| General Space Type Electrical/mechanical | | Specifi | c Space Type | | Ceiling Height (Ft | Gross | Interior Area | (SF) | | Watts/SF) | (SF x | atts Allowed LPA x 0.8) 312 | Total Proposed Wa (LPD + Display LP | | Compliance Status |
| Warehouse/storage area | Ме | edium to bu | ılky palletized i | tems | | | 128,367 | | 0 | 0.33 | | 2,361 | | | |
| | | | Totals | | | Calculation A | Adjustme | A | d Total LPD - LPA x 0.8 | 3 | 4,138 | 8721.2 8,721 | | COMPLIES | |
| | | | | | | Pr | oposed Lighti | ng Power | Density | | | | | | |
| Fixture Type | | | Fixtur | e ID | | ntity of ures (#F) | Wa | Watts or attage Lin oer Fixtur (WpF) | mit | | al Linear eet (LF) | | 'atts per Linear Foot (WpLF) | | Total Watts Proposed (#F x WpF) or (LF x WpLF) |
| Individual Fixtures | lorizontal su | rface-mour | nt F2 | 2 | | 4 | | 799 | | | | | | | 3,196 |
| | | Suspende | d F1 | | | 17 | | 325 | | | | | Proposed Total LP | D | 5,525 8721.2 |
| Project Title H | Fortress - | Puvallur |) - 2018 WSI | FC | | | | | | | | | Date | Im | n 29, 2023 |
| Proposed Fixtures Det | | | NEW BUILI | | TERIOR | LIGHTIN | ĉ | | | | | | | Jun | 1 29, 2023 |
| Fixture Type/Applic: | ation | F | 'ixture ID | | Loc | ation in Docu | ments | | L | атр Туре | | | New o Existing-to-I | | |
| Individual Fixtures Horizontal sur | rface-mount | | F2 | | | E0.01, E3.01 | | | | LED | | | New | | |
| | | | escription: 8' L fixtures require | | | ing controls? | None required | | | | Are t | hese fixtures loca | ted within a daylight zor | e?: No | |
| | Suspended | | F1 escription: LED | | 0 | E0.01, E3.01 | <u>^</u> | | | LED | Aret | hese fixtures loca | New ted within a daylight zor | e?· No | |
| | | | fixtures require | | lication light | ing controls?: | None required | | | | | lese fixtures foca | ica within a daynght zor | | |
| Project Title | Fortress - | Puyallup | o - 2018 WSI | EC | | | | | | | | | Date | e Jur | n 29, 2023 |
| Lighting Power Calcul | ation | 1 | NEW BUILI | DING - EX | KTERIOF | LIGHTIN | G | | | | | С | ompliance Verificat | ion CC | MPLIES |
| Exterior Lighting Zone | | | | | | ZONE | 2 2 | | Ba | ase Site Allow | vance | | | | 400 |
| | | | | | | | | | | | | | | | |
| Tradable Su | rface | | Tradable S | urface Sub-' | Туре | Exterior Surface Area (SF) | [•] Tradable Lig LPA (Watts/SF) | Lir | near | Ince LPA (Watts/LF) | (L | Watts Allowed PA x SF) or LPA x LF) | Total Tradable Proposed Watts | Т | radable Compliance Status |
| Building entrances Uncovered parking are | | NC | Entr | y canopies | | 1,600 125,997 | 0.25 | | | | | 400 5,040 | | | |
| | | | | | | 123,777 | 0.04 | | Base S | Site Allowanc | | 400 | 40 2.045 | | |
| | | | | | | D | | · | | Tota | S | 5,84 | 3,845 | | COMPLIES |
| Fixture Type | Fixtu | ire ID | | Trada | ble Surface | - | ed Tradable L | Qua | ntity of res (#F) | Wa Watta per 1 | ntts or ge Limit Fixture VpF) | Total Lines Feet (LF) | | | Total Watts Proposed (#F x WpF) or (LF x WpLF) |
| Individual Fixtures Cano | DDV T | DL | Bui | ding entranc | es and exite | - Entry canopi | es | | 8 | | 20 | | | | 162 |
| Pole-mount | ted | Р | τ | Uncovered pa | arking areas | and drives - | | | 2 | 3 | 312 | | | | 624 |
| Wall-mount Wall-mount | ted W | M4 M3 | I | Uncovered pa Uncovered pa | arking areas | and drives - | | | 10 5 | | 19 72 | | | | 189 359 |
| Wall-mount Wall-mount | | MF M2 | | Uncovered pa Iding entranc | <u> </u> | and drives - - Entry canopi | es | | 5 1 | _ | 312 150 | | | | 1,560 150 |
| Wall-mount | | M1 | | | | Entry canopi Entry canopi | | | 11 | _ | 73 | | Trodable Des | nead Tak- | 803 |
| 1 | | | | | | | | | | | | | Tradable Propo | scu 10ta | u 3845 |

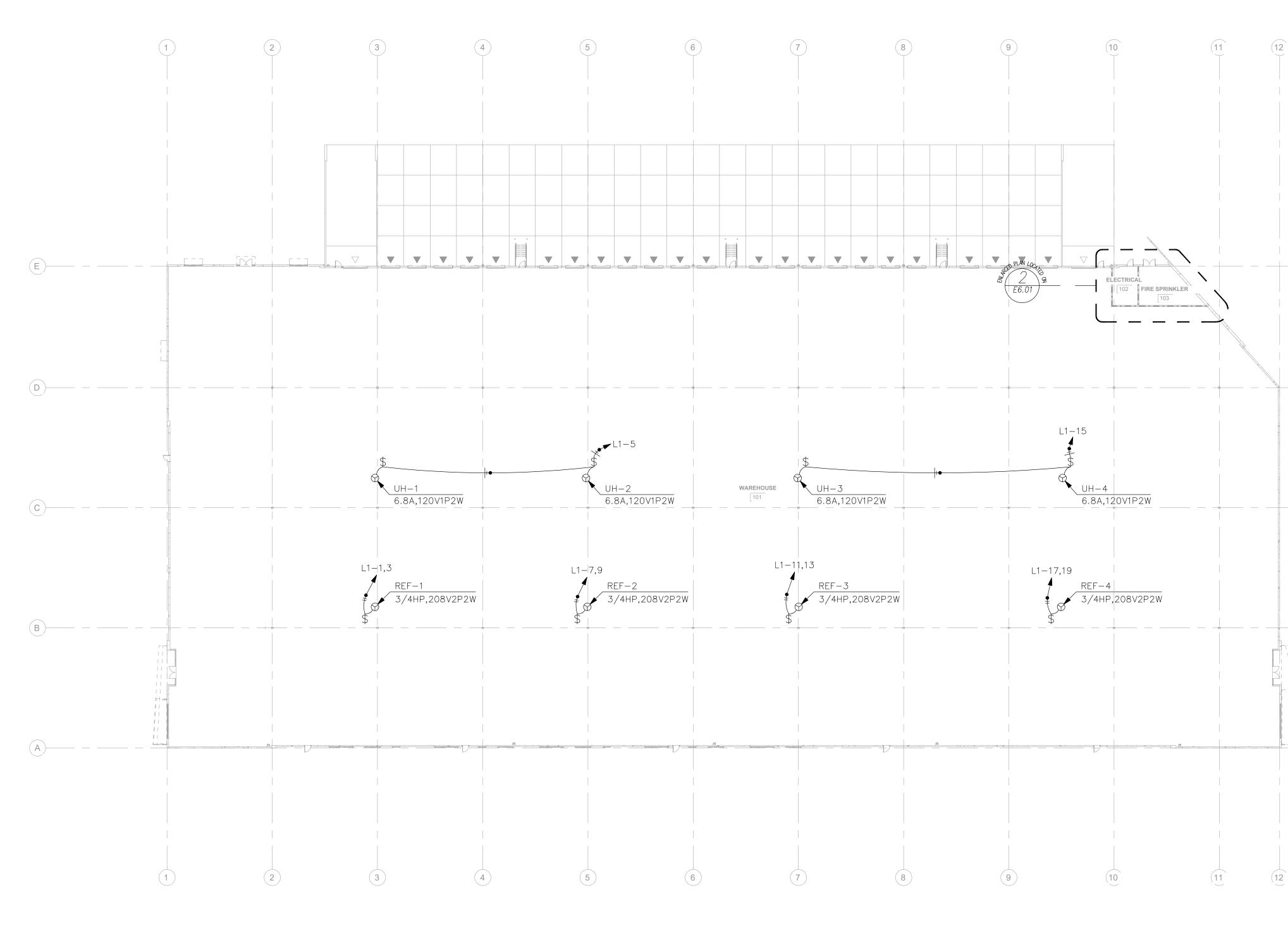


| shington State Energy Cod | cessary to check a permit e. Commercial Provisions. | cluding Group R2, R3 & R4 over 3 stories & all R1 Administered by t application for compliance with the lighting systems, motors and electr | ical system requirements in the | The following information is new Washington State Energy Code | essary to check a permit a , Commercial Provisions. | pplication for compliance with the lighting systems, | | The following inform Washington State E | mation is nece Energy Code, | essary to check a permit Commercial Provisions | | the The following inf Washington Stat | formation is necessar te Energy Code, Con | ary to check a permit ap mmercial Provisions. | ling Group R2, R3 & R4 over 3 stories & all R1 Administered by ©2023 NEEA, All rights reserve plication for compliance with the lighting systems, motors and electrical system requirements in the | ne The following information is ne Washington State Energy Coo |
|---|---|--|---------------------------------|--|---|---|--|---|--|---|--|---|--|--|---|---|
| questions about this report Project: Fortress - Puyallup - 20 | | cial Technical Support at 360-539-5300 or via email at com.techsuppor | t@waenergycodes.com | | contact WSEC Commercia | al Technical Support at 360-539-5300 or via email a | at com.techsupport@waenergycodes.com | | t this report, c | Daylight responsiv | ial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com | For questions at | pout this report, conta | tact WSEC Commercial | Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com Indicate method of manual lighting control | For questions about this report |
| 240 11th St SE Puyallup, WA 98372 | | | Date: 2023-06-29 | | controls - warehouse spaces | zones that are independently controlled | | | | controls | daylight responsive controls; indicate that the area served by each control device does not exceeds 2,500 sf | YES | C405.2.5, | Means of egress | and applicable automatic lighting control Identify on plans egress fixtures that function | - |
| plies Code Sec | tion Component | Compliance Information Required In Permit Location in Documentation Documents | Building Department Notes | YES | | Indicate occupant sensors are configured to automatically reduce lighting power by 50% when the zone is unoccupied and 100% off | E0.01, E6.01 | NA | _ | | Identify sidelit and toplit daylight zones that are not provided with daylight sensing | | Item 5 | lighting | as both normal and emergency means of egress illumination | _ |
| GHTING SCOPE | | Decinentation | | | | after the zone is unoccupied for over 20 minutes; indicate controls are configured to automatically restore lighting to full power | | NA | C405.2.4.1. | 1 Daylight responsiv | controls and the exception(s) that apply Indicate on plans the lighting load reduction | YES | | | Provide calculation of lighting power density of total egress lighting | _ |
| C103.1 | Construction documents - Gener | For a shell & core or tenant space (first build- ral out) project, indicate if there is no lighting scope included in the project. | | NA C405.2.1. | Occupant sensor | when the zone or space is occupied For open plan office areas larger than 300 sf, | | | | controls | method (continuous dimming, or stepped dimming that provides at least two even steps between 0%-100% of rated power) | YES | | | If total egress lighting power density is greater than 0.02 W/sq. ft., indicate on plans egress fixtures requiring automatic shut-off during | |
| C103.1 | | For an alteration project, indicate if there is no lighting scope included in the project. | | | controls - open plan office areas | indicate general lighting is provided with vacancy controls that reduce lighting power by not less than 80% and are configured to turn | | NA | C405.2.4.1 | Daylight responsiv controls | Indicate that daylight sensing controls are configured to completely shut off all | NA | | | unoccupied periods Indicate method of automatic shut-off control | _ |
| HTING CONTROLS | | | | | | luminaires 100% off when the space is unoccupied; indicate that no individual control | | NA | C405.2.5 | Additional controls | controlled lights in the lighting zone Identify spaces and lighting fixtures on plans | NA | C405.4.1 C405.4.2 | Lighting control of exempt interior | Indicate that exempt interior lighting equipment and lighting located within spaces | |
| C405.2 | Lighting controls, general | For all lighting fixtures, indicate lighting control method on plans for spaces and lighting zone(s) served, or exception takenE0.01, E1.01, H | (3.01, | C405.2.1. | Occupant sensor | zone area exceeds 600 sf Indicate parking garage general lighting is provided with vacancy controls that reduce | | | | Specific applicatio lighting controls | that require specific application lighting controls per this section | | | lighting | that are eligible for a lighting power exemption are controlled independently from non-exempt and general area lighting | INTERIOR LIGHTING |
| C405.2, Option 2 | Luminaire level lighting controls | Indicate on plans all fixtures provided with LLLC in lieu of C405.2 lighting controls; | | | controls - parking garages | lighting power by not less than 30% and are configured to turn luminaires 100% off when | | NA | C405.2.5, Item 1 | Display and accent lighting | Indicate on plans that manual controls are provided that control display, accent lighting and display case lighting independently from | NA | C405.2.6 | Exterior lighting controls | For decorative exterior lighting, indicate on plans automatic daylight shut-off controls, or | YES C405.4 C405.4 |
| | (LLLC) | provide description of control capabilities and performance parameters | | | | no vehicles or pedestrians are present, unless eligible for an exception; indicate that no individual control zone area exceeds 3,600 sf | | | _ | | both general area lighting and other lighting applications within the same space | NA | | | exception taken For exterior lighting that is not decorative, | |
| C405.2.5. Item 3 C405.2.1. | units (dormitory, | ng Indicate method of automatic control of all installed luminaires in dwelling units in buildings other than multifamily (occupancy | | NA C405.2.1. | Occupant sensor controls - enclosed | Indicate stairway lighting is provided with vacancy controls that reduce lighting power by | | NA | | | Indicate manual and automatic (occupant sensor or time switch) lighting control methods | | | | indicate on plans automatic daylight or time- switch shut-off controls and setback controls; or indicate exception taken | YES |
| C405.2.3 C405.2.5 | 1 than multifamily) Lighting in sleeping | or light reduction controls) g Indicate method of automatic off control of | | | fire-rated stairwells | not less than 50% when the stairway in unoccupied | | | C405.2.5, Item 3 | Hotel/motel guest | | YES | | | For lighting requiring setback controls, E0.01, E6.01 include control sequence that reduces lighting | YES |
| Item 2 | units | all installed luminaires in sleeping units (vacancy or key card control); also refer to Receptacles | | YES C405.2.2. | Automatic time switch controls | Indicate spaces on plans where time switch controls turn luminaires 100% off during unoccupied hours | E0.01, E6.01 | | | | luminaires and switched receptacles in guest room | | | | power by at least 30% between 12am-6am, or from 1 hour after closing to 1 hour before opening, or based upon motion sensor | |
| C405.2.3 C405.2.3 | | Indicate on plans the method of manual lighting control, location of manual control E6.01 | 3.01, | NA | | Indicate spaces on plans where time switch controls are configured to turn on lighting to | | NA | C405.2.5, Item 1 | Supplemental task lighting | Indicate method and location of manual and automatic shut-off control (occupant sensor or time switch) for supplemental task lighting, | NA | | | For building facade and landscape lighting, indicate control sequence for shut-off control | C405.1 C405.1. |
| C405.2.5 | | device and the area or specific application it serves | | NA | | full power versus 50% power Indicate locations of override switches on | | | | | including under-shelf or under-cabinet lighting | | | | is based on dawn-to-dusk and business opening/closing schedule; indicate whether automatic or time switch controls will be | |
| C405.2.3 C405.2.1 C405.2.4 | 1 reduction controls | the second secon | | | | plans and the lighting zone(s) served; indicate that the area(s) served by each override switch does not exceeds 5,000 sf | | NA | C405.2.5, Item 1 | Lighting equipment for sale or | sale or demonstration are controlled | NA | C405.5.2 | Lighting control of | provided for this function Indicate that exempt exterior lighting and | |
| S C405.2.1 C405.2.2 | Method of automat | tic Indicate on plans the method of automatic E0.01 shut-off control during unoccupied periods | | NA C405.2.1, Exception | U | Indicate digital timer switch control includes: manual on/off, time delay, audible and visual | | | | demonstration | independently from both general area lighting and other lighting applications within the same space | NA | C405.5.2 | exempt exterior lighting | lighting located within exterior areas/surfaces that eligible for a lighting power exemption | |
| C405.2.2. C405.2.1, Exception | | (occupancy sensor, time switch or digital timer switch) for all lighting zones | | | 2 Daylight zones - | indication of impending time-out Indicate primary and secondary sidelit | | NA | | | Indicate manual and automatic (occupant sensor or time switch) lighting control | | | | are controlled independently from non- exempt exterior lighting | |
| C405.2.1 | Occupant sensor controls | Indicate on plans all luminaires that are controlled by occupant sensor controls; | | | Sidelit and toplit | daylight zone floor areas on plans | | NA | C405.2.5, | Lighting for non- | methods Identify all eligible non-visual lighting | | | Exterior gas-fired lighting appliances | Indicate ignition system is a method other then continuously burning pilot light | |
| | | indicate controls are configured to turn luminaires 100% off when the space is unoccupied | | NA | | plans For small vertical fenestration assemblies | | | Item 4 | visual applications | applications on plans; indicate that the area served by each control device does not exceeds 4,000 sf | YES | C405.2.7 | Area controls - Master control switches and circuit | Indicate location(s) of master control E5.01 switch(es) intended to control multiple independent switches; circuit breaker may not | |
| C405.2.1 C405.2.1 | * | Indicate if occupant sensor controls are configured to be manual on or automatic on to | | | | (rough opening less than 10 percent of primary daylight zone floor area) where daylight responsive controls are not required, | | NA | _ | | Indicate on plans that non-visual lighting are controlled independently from both general | YES | | power limit | be used as a master control switch Verify that no 20 amp circuit controlled by a E5.01 | INTERIOR LIGHTING I NO C405.4. |
| | | not more than 50% power; indicate spaces eligible for exception that allows automatic on to 100% power | | | | provide fenestration area to daylight zone floor area calculation(s) | | | | | area lighting and other lighting applications within the same space | | | | single switch or automatic control is loaded beyond 80% | |
| | | | | | | | | | | | | ADDITIONA | L EFFICIENCY C | CREDIT - ENHANCE | D INTERIOR LIGHTING CONTROLS | |
| | | Page 1/10 | | | | Page 2/10 | | | | | Page 3/10 | | | | Page 4/10 | |
| ghting, Motor | and Electric | al Requirements List, pg 6 of 10 | | Lighting, Motor | and Electrica | l Requirements List, pg 7 | of 10 | Lighting, I | Motor a | and Electric | al Requirements List, pg 8 of 10 | Lighting | , Motor an | nd Electrical | Requirements List, pg 9 of 10 | Lighting, Moto |
| ollowing information is ne nington State Energy Cod | cessary to check a permit e, Commercial Provisions. | | ical system requirements in the | | essary to check a permit a | ding Group R2, R3 & R4 over 3 stories & all R1 pplication for compliance with the lighting systems, | Administered by ©2023 NEEA, All rights reserved motors and electrical system requirements in the | The following inform | mation is nece | essary to check a permit Commercial Provisions | | the The following inf | formation is necessar | | ling Group R2, R3 & R4 over 3 stories & all R1 Administered by ©2023 NEEA, All rights reserv plication for compliance with the lighting systems, motors and electrical system requirements in the | The following information is n Washington State Energy Co |
| uestions about this report | , contact WSEC Commerc | cial Technical Support at 360-539-5300 or via email at com.techsuppor | | | | | | | | | | | | | | |
| C405.4.2 | 2 Space By Space | | t@waenergycodes.com | For questions about this report | | al Technical Support at 360-539-5300 or via email a | at com.techsupport@waenergycodes.com | For questions about | ut this report, c | | ial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com | For questions at | pout this report, conta | act WSEC Commercial | Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com | |
| C405.4.2. | 2 Space-By-Space Method | Demonstrate that total proposed wattage does not exceed maximum allowed wattage; identify locations of space types on plans, | t@waenergycodes.com | | | Demonstrate that proposed wattage per non- tradable surface type does not exceed maximum allowed wattage per non-tradable | at com.techsupport@waenergycodes.com | For questions about | ut this report, c | Lighting panel alterations | Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring), | | pout this report, conta | | Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception taken E5.01, E6.01 | NA C408.1. C408.1. C408.1. C408.1. |
| C405.4.2. | 2 Space-By-Space Method | Demonstrate that total proposed wattage does E0.02 not exceed maximum allowed wattage; | t@waenergycodes.com | For questions about this report | | Demonstrate that proposed wattage per non- tradable surface type does not exceed maximum allowed wattage per non-tradable surface type (including base site allowance remaining after tradable allowance calculation); identify locations of non-tradable | at com.techsupport@waenergycodes.com | For questions about | C503.6.3 | Lighting panel alterations | Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring), indicate all applicable lighting controls requirements apply | For questions at | C405.6 | act WSEC Commercial | Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception taken E5.01, E6.01 Provide documentation that demonstrates maximum voltage drop across feeders and E5.01, E6.01 | NA C408.1.1 C408.1.1 C408.1.2 |
| | Method | Demonstrate that total proposed wattage does not exceed maximum allowed wattage; identify locations of space types on plans, including retail display areas and areas with display, highlight and decorative lighting; | t@waenergycodes.com | For questions about this report, | contact WSEC Commerci: | Demonstrate that proposed wattage per non- tradable surface type does not exceed maximum allowed wattage per non-tradable surface type (including base site allowance remaining after tradable allowance | at com.techsupport@waenergycodes.com | For questions about | C503.6.3 | Lighting panel alterations | Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring), indicate all applicable lighting controls requirements apply ns Where interior space(s) is reconfigured (permanently installed walls or ceiling-height partitions) to create new enclosed spaces, | For questions at YES | C405.11 | Electrical transformers Feeders and branch circuits Dwelling unit | Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception taken E5.01, E6.01 Provide documentation that demonstrates maximum voltage drop across feeders and branch circuits does not exceed 5% E5.01, E6.01 Indicate on electrical plans that each dwelling E5.01 | NA C408.1. C408.1. C408.1. C408.1. C103.6. |
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| ITIONAL EFFICIEN C406.3.1 | Method CY CREDITS - REDUC Reduced interior lighting power | Demonstrate that total proposed wattage does not exceed maximum allowed wattage; identify locations of space types on plans, including retail display areas and areas with display, highlight and decorative lighting; provide WSEC exterior lighting compliance reports E0.02 CED INTERIOR LIGHTING POWER DENSITY To comply with additional efficiency credit, demonstrate that total connected interior lighting wattage is 10% or 20% less than the total maximum allowed lighting ower credit is being applied to; indicate whether lighting power allowance is based on the building area E0.02 | t@waenergycodes.com | For questions about this report, NA LIGHTING ALTERATION | S Interior and parking garage lighting | Demonstrate that proposed wattage per non- tradable surface type does not exceed maximum allowed wattage per non-tradable surface type (including base site allowance remaining after tradable allowance calculation); identify locations of non-tradable surfaces on plans; provide WSEC exterior lighting compliance reports Where ≥ 50% of existing luminaires in an interior space or parking garage are replaced; indicate compliance path (building area or space-by-space method); include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate | at com.techsupport@waenergycodes.com | For questions about | t this report, c C503.6.3 C503.6.4 C504.2 | Lighting panel alterations Newly-created roo Lighting repairs | Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring), indicate all applicable lighting controls requirements apply ns Where interior space(s) is reconfigured (permanently installed walls or ceiling-height partitions) to create new enclosed spaces, indicate all applicable lighting controls requirements apply Identify existing luminaires being upgraded with bulb and / or ballast replacement; | For questions at YES | C405.6 C405.11 C405.7 C405.8 | Electrical transformers Feeders and branch circuits Dwelling unit electrical energy consumption Electric motor efficiency | Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception taken E5.01, E6.01 Provide documentation that demonstrates maximum voltage drop across feeders and branch circuits does not exceed 5% E5.01, E6.01 Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meter Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate motor type, horsepower, rpm, rated efficiency, or exception applied Include all motors, including fractional hp motors, include the other type, horsepower, rpm, rated efficiency, or exception applied | NA C408.1. C408.1. C408.1. C103.6. NA C408.1. C103.6. |
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| DITIONAL EFFICIEN C406.3.1 C406.3.2 C406.3 C406.3 | Method CY CREDITS - REDUC Reduced interior lighting power density Reduced interior lighting power density - dwelling unit lamp efficacy OWER & EFFICACY Total connected | Demonstrate that total proposed wattage does E0.02 not exceed maximum allowed wattage; identify locations of space types on plans, including retail display areas and areas with display, highlight and decorative lighting; provide WSEC exterior lighting compliance E0.02 reports To comply with additional efficiency credit, demonstrate that total connected interior E0.02 Ighting wattage is 10% or 20% less than the total maximum allowed lighting wattage for E0.02 the area the reduced lighting power credit is being applied to; indicate whether lighting power allowance is based on the building area method or space-by-space method; provide WSEC exterior lighting compliance reports For project with dwelling units, to comply with additional efficiency credit indicate in lighting fixture schedule that lamps within installed interior luminaires have an efficacy rating of at least 65 lumens per watt; include number of lamps and provide calculations that demonstrate at least 95% of lamps have this efficacy rating Include all luminaires in exterior lighting E0.01, E0.02, F | | For questions about this report, NA LIGHTING ALTERATION | S Interior and parking garage lighting | Demonstrate that proposed wattage per non- tradable surface type does not exceed maximum allowed wattage per non-tradable surface type (including base site allowance remaining after tradable allowance calculation); identify locations of non-tradable surfaces on plans; provide WSEC exterior lighting compliance reports Where ≥ 50% of existing luminaires in an interior space or parking garage are replaced; indicate compliance path (building area or space-by-space method); include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed lighting wattage does not exceed maximum allowed per compliance path Where < 50% of existing luminaires in an interior space or parking garage are replaced; indicate total existing lighting wattage in each space prior to alteration; include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed total lighting wattage in alteration area does not exceed total existing lighting | | For questions about RECEPTACLES | this report, c C503.6.3 C503.6.4 C504.2 C505.1 | Lighting panel alterations alterations Newly-created roo Lighting repairs Change of interior space use | Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring), indicate all applicable lighting controls requirements applymsWhere interior space(s) is reconfigured (permanently installed walls or ceiling-height partitions) to create new enclosed spaces, indicate all applicable lighting controls requirements applyIdentify existing luminaires being upgraded with bulb and / or ballast replacement; indicate fixture alteration does not increase existing fixture wattageIdentify spaces on plans where the building area type or space use type is being changed from one type to another per Tables C405.4.2(1) or (2)Indicate compliance method (building area or space-by-space); include all new and existing- to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed lighting wattage does not exceed maximum allowed per compliance pathIdentify all controlled and uncontrolled | For questions at YES | cut this report, contained C405.6 C405.11 C405.7 C405.8 C405.9.1 | Electrical transformers Feeders and branch circuits Dwelling unit electrical energy consumption Electric motor efficiency | Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception takenE5.01, E6.01Provide documentation that demonstrates maximum voltage drop across feeders and branch circuits does not exceed 5%E5.01, E6.01Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meterE5.01, E6.01Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate motor type, horsepower, rpm, rated efficiency, or exception appliedE5.01For luminaires in each elevator cab, provide calculations that demonstrate average efficacy is not less than 35 lumens per wattE5.01For elevators that do not have an integral air conditioning system, indicate rated watts per cfm for elevator cab ventilation fans do not exceed 0.33 watts per cfmE5.01Indicate automatic controls that de-energize lighting and ventilation fans when elevator isE5.01 | NA C408.1. C408.1. C408.1. C408.1. C103.6. NA C408.1. C408.1. C103.6. NA C408.1. C408.1. C103.6. NA C408.1. C408.1. C103.6. NA C408.1. C408.1. C103.6. PROJECT CLOSE OUT YES C103.6. C103.6. |
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automatic controls are configured to reduce operational speed to the minimum permitted when not in use E0.01, E1.01, E3.01, E6.01 Indicate that all electrical systems (receptacles, transformers, motors, vertical and horizontal transportation) for which the WSEC requires control functions and / or configuratio to be commissioned E0.01, E1.01, E3.01, E6.01 E6.01 E6.01 E6.01 E6.01< | NA C408.1. 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| DITIONAL EFFICIEN S C406.3.1 C406.3.2 G C406.3.2 C406.3.2 S C406.3 C406.3 C406.3 C406.3 C405.5.2 S S S C405.5.3 C405.5.1 C405.5.1 | Method CY CREDITS - REDUC Reduced interior lighting power density Reduced interior lighting power density Wethod Reduced interior lighting power density - dwelling unit lamp efficacy OWER & EFFICACY Total connected exterior lighting power 1) Exterior lighting zc Exterior building grounds lighting | Demonstrate that total proposed wattage does not exceed maximum allowed wattage; identify locations of space types on plans, including retail display areas and areas with display, highlight and decorative lighting; provide WSEC exterior lighting compliance reportsE0.02CED INTERIOR LIGHTING POWER DENSITYComply with additional efficiency credit, demonstrate that total connected interior lighting wattage is 10% or 20% less than the total maximum allowed lighting wattage for the area the reduced lighting power credit is being applied to; indicate whether lighting power allowance is based on the building area method or space-by-space method; provide WSEC exterior lighting compliance reportsE0.02Vint additional efficiency credit indicate in lighting fixture schedule that lamps within installed interior luminaires have an efficacy rating of at least 65 lumens per watt; include number of lamps and provide calculations that demonstrate at least 95% of lamps have this efficacy ratingE0.01, E0.02, I E5.01Include all luminaires in exterior lighting fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's watts per fixture for the installed lampE0.01, E0.02, I E5.01Identify exterior applications eligible for lighting power exemption on plans and in WSEC exterior lighting compliance reports; indicate exception appliedE0.02Ione Indicate building exterior lighting zone as specified by the AHJE0.02For building grounds fixtures rated at greater than 50 watts, indicate rated lamp efficacy (in lumens per watt) in fixture scheduleE0.01, E0.02, I E5.01Ione surface wattage does not exceed maximum allowed tradable surfaces on plans; p | | For questions about this report. | s Interior lighting wiring and circuiting | Demonstrate that proposed wattage per non-tradable surface type (including base site allowance remaining after tradable allowance calculation); identify locations of non-tradable surfaces on plans; provide WSEC exterior lighting compliance reports Where ≥ 50% of existing luminaires in an interior space or parking garage are replaced; indicate compliance path (building area or space-by-space method); include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed lighting wattage does not exceed maximum allowed per compliance path Where < 50% of existing luminaires in an interior space or parking garage are replaced; indicate total existing lighting wattage in each space prior to alteration; include all new and existing-to-remain luminaires in WSEC interior lighting compliance reports; indicate proposed total lighting wattage in alteration area does not exceed total existing lighting wattage prior to alteration | | For questions about For questions about Receptacles NA NA NA NA | at this report, c C503.6.3 C503.6.4 C503.6.4 C503.6.4 C504.2 C505.1 C505.1 C405.10 C405.10 C503.6.4 C503.6.4 | Lighting panel alterations Newly-created roo Lighting repairs Change of interior Space use receptacles receptacles Switched receptacl in sleeping units Electrical receptacl alterations | Where a new interior and/or exterior lighting panel is installed or an existing panel is moved (all new raceway and conductor wiring), indicate all applicable lighting controls requirements apply Image: Control Con Control Con Control Control Control Control Control Control Con | For questions at YES YES Image: Strategy of the strategy | caut this report, contained C405.6 C405.11 C405.7 C405.8 C405.9.1 C405.9.2 C405.9.3 C408.4 C408.1 C408.1.2 C405.13 C405.14.2 | Electrical transformers Electrical and branch circuits Dwelling unit electrical energy consumption Electric motor efficiency Elevator cabs Escalators and moving walks Regenerative drive Scope of electrical power and lighting systems commissioning Commis | Include electrical transformer schedule on electrical plans; indicate transformer type, size, efficiency, or exception taken E5.01, E6.01 Provide documentation that demonstrates maximum voltage drop across feeders and branch circuits does not exceed 5% E5.01, E6.01 Indicate on electrical plans that each dwelling unit in Group R-2 has a separate electrical energy meter E5.01, E6.01 Include all motors, including fractional hp motors, in electric motor schedule on electrical plans; indicate motor type, horsepower, rym, rated efficiency, or excerption applied E5.01, E6.01 For luminaires in each elevator cab, provide calculations that demonstrate average efficacy is not less than 35 lumens per watt E5.01, E6.01 For elevators that do not have an integral air conditioning system, indicate rated watts per efm for elevators that do not have an integral air conditioning system, indicate rated watts per efm for elevator cab ventilation fans when elevator is stopped and unoccupied for a period of 15 minutes or more E5.01, E1.01, E3.01, E6.01 Indicate automatic controls that de-energize lighting and ventilation fans when elevator is stopped and unoccupied with ASME A17.1/CSA B44; automatic controls are configured to reduce operational speed to the minimum permitted when not in use E0.01, E1.01, E3.01, E6.01 Indicate that all electrical systems (receptacles, transformers, motors, vertical and horizontal transportation) for which the WSEC requires control functions and / or configuratio to be commissioned E0.01, E1.01, E3.01, E6.01 E6.01 E6.01 E6.01 E6.01< | NA C408.1. C408.1. C408.1. C103.6. NA C408.1. C103.6. NA C408.1. C103.6. NA C408.4. C103.6. PROJECT CLOSE OUT YES C103.6. |

| rements List, pg 4 R3 & R4 over 3 stories & all R1 | Administered by ©2023 NEE | | 2018 WSEC Requir | ements for Com | mercial Buildings includi | Requirements List, pg 5 c | dministered by ©2023 NEEA, All rights reserved | 600 600 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 |
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| ompliance with the lighting systems, oport at 360-539-5300 or via email a | motors and electrical system | requirements in the | The following inform Washington State E | nation is necessa inergy Code, Co t this report, con | ary to check a permit app mmercial Provisions. tact WSEC Commercial | lication for compliance with the lighting systems, m Technical Support at 360-539-5300 or via email at c | otors and electrical system requirements in the | Suite 101 Suite 101 F: V.Kirbyelectric |
| thod of manual lighting control ble automatic lighting control plans egress fixtures that function mal and emergency means of ination culation of lighting power density ess lighting ss lighting power density is greater //sq. ft., indicate on plans egress uiring automatic shut-off during periods thod of automatic shut-off control t exempt interior lighting and lighting located within spaces jible for a lighting power are controlled independently from t and general area lighting | | | INTERIOR LIG | C406.4 HTING POWE | Enhanced digital lighting controls | To comply with additional efficiency credit, indicate on plans that interior lighting fixtures are configured with all of the following control functions, as applicable: 1) Each fixture is individually addressed, or exception taken: 2) Fixtures are configured for continuous dimming; 3) No more than eight fixtures are controlled by a single daylight sensor; 4) In enclosed and open office areas, illumination levels of overhead general area lighting is configured to be individually adjusted by occupants Include calculations that demonstrate the total lighting power of all interior lighting fixtures configured with enhanced lighting controls is no less than 90% of the total interior lighting power for the area the enhanced lighting controls credit is being applied to | | 4826 "B" St. NW · Suite P: (253) 859-2000 · |
| ive exterior lighting, indicate on natic daylight shut-off controls, or aken r lighting that is not decorative, | | | YES | C405.4.1 C405.4.2 | Total connected interior lighting power | fixture schedule; indicate fixture types, lamps, ballasts, and manufacturer's watts per fixture for the installed lamp | E0.01, E5.01, E6.01 | |
| plans automatic daylight or time- off controls and setback controls; exception taken requiring setback controls, | E0.01, E6.01 | | YES | | | Identify spaces eligible for lighting power exemption on plans and in WSEC interior lighting compliance reports; indicate the exception applied | E0.01, E5.01, E6.01 | |
| trol sequence that reduces lighting teast 30% between 12am-6am, or r after closing to 1 hour before based upon motion sensor g facade and landscape lighting, ntrol sequence for shut-off control dawn-to-dusk and business using schedule; indicate whether or time switch controls will be or this function tt exempt exterior lighting and ated within exterior areas/surfaces of or a lighting power exemption ed independently from non- erior lighting | | | YES | C405.1 C405.1.1 | Lighting in dwelling units (multifamily) | Identify lighting equipment eligible for lighting power exemption in fixture schedule and in WSEC interior lighting compliance reports; indicate the exception appliedIFor all installed luminaires, include lamp type and number of lamps in lighting fixture schedule; for lamps that are not LED, T-8 or small diameter fluorescent, indicate efficacy of other lamp types is 65 lumens per watt or greaterFor all installed luminaires, indicate in lighting fixture schedule whether complying via lighting power density or by qualifying lamp type; if by lamp type, include number of lampsFor all installed luminaires, indicate in | E0.01, E5.01, E6.01 | |
| ition system is a method other uously burning pilot light ration(s) of master control ntended to control multiple | E5.01 | | | | | lighting fixture schedule whether complying via lighting power density or by qualifying lamp type; if by lamp type, include number of lamps | | FORTRESS |
| t switches; circuit breaker may not a master control switch no 20 amp circuit controlled by a h or automatic control is loaded | E5.01 | | INTERIOR LIG | HTING POWE C405.4.2.1 | CR CALCULATION - 1 Building Area Method | NDICATE COMPLIANCE PATH TAKEN Demonstrate that total proposed wattage per building area does not exceed maximum allowed wattage per building area; identify | | PUYALLUP |
| R LIGHTING CONTROLS | | | | | | locations of building areas on plans; provide WSEC exterior lighting compliance reports | | |
| ge 4/10 | | | | | | Page 5/10 | | 240 114TH ST SE |
| | | | | | | | | |
| | | A All rights reserved | | | | Requirements List, pg 10 | | PUYALLUP, WA 98372 |
| R3 & R4 over 3 stories & all R1 ompliance with the lighting systems, | Administered by ©2023 NEE/ motors and electrical system | requirements in the | 2018 WSEC Requir The following inform Washington State E | ements for Com nation is necessa inergy Code, Co | mercial Buildings includi ary to check a permit app mmercial Provisions. | Requirements List, pg 10 ng Group R2, R3 & R4 over 3 stories & all R1 Ac lication for compliance with the lighting systems, m Technical Support at 360-539-5300 or via email at c | dministered by ©2023 NEEA, All rights reserved otors and electrical system requirements in the | REVISIONS: |
| R3 & R4 over 3 stories & all R1 ompliance with the lighting systems, oport at 360-539-5300 or via email a ctrical transformer schedule on ans; indicate transformer type, ency, or exception taken | Administered by ©2023 NEE/ motors and electrical system at com.techsupport@waenergy E5.01, E6.01 | requirements in the | 2018 WSEC Requir The following inform Washington State E | ements for Com nation is necessa inergy Code, Co | mercial Buildings includi ary to check a permit app mmercial Provisions. | ng Group R2, R3 & R4 over 3 stories & all R1 Ad lication for compliance with the lighting systems, m | dministered by ©2023 NEEA, All rights reserved otors and electrical system requirements in the | REVISIONS: A (2023-06-16) INITIAL REVIEW SET |
| R3 & R4 over 3 stories & all R1 ompliance with the lighting systems, oport at 360-539-5300 or via email a ctrical transformer schedule on ans; indicate transformer type, ency, or exception taken cumentation that demonstrates voltage drop across feeders and uits does not exceed 5% electrical plans that each dwelling | Administered by ©2023 NEE/ motors and electrical system at com.techsupport@waenerg | requirements in the | 2018 WSEC Requir The following inform Washington State E For questions about | ements for Com nation is necessa inergy Code, Co this report, con C408.1.2 C408.1.2.1 C408.1.4 | mercial Buildings includi ary to check a permit app mmercial Provisions. tact WSEC Commercial Commissioning requirements in construction | ng Group R2, R3 & R4 over 3 stories & all R1 Ad lication for compliance with the lighting systems, me Technical Support at 360-539-5300 or via email at c Include general summary of Cx plan per C408.1.2 including: 1) Narrative description of activities; 2) Responsibilities of the Cx | dministered by ©2023 NEEA, All rights reserved otors and electrical system requirements in the | REVISIONS: |
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| R3 & R4 over 3 stories & all R1 mpliance with the lighting systems, oport at 360-539-5300 or via email a ctrical transformer schedule on ans; indicate transformer type, ncy, or exception taken cumentation that demonstrates voltage drop across feeders and uits does not exceed 5% electrical plans that each dwelling up R-2 has a separate electrical er motors, including fractional hp electric motor schedule on ans; indicate motor type, , rpm, rated efficiency, or pplied res in each elevator cab, provide that demonstrate average efficacy han 35 lumens per watt rs that do not have an integral air g system, indicate rated watts per vator cab ventilation fans do not b watts per cfm comatic controls that de-energize l ventilation fans when elevator is h unoccupied for a period of 15 more relators comply with ASME B44; automatic controls are to reduce operational speed to the ermitted when not in use one-way down or reversible re provided with a variable egenerative drive PORT COMMISSIONING (CX) It all electrical systems s, transformers, motors, vertical tal transportation) for which the aires control functions and / or on to perform specific functions to be commissioned building lighting load is > 20 kW, tal lighting load of luminares aylight sensing and / or occupancy o kW, indicate that all automatic trol systems are required to be beed; or provide building lighting | Administered by @2023 NEE/ motors and electrical system is at com.techsupport@waenergy E5.01, E6.01 E5.01, E6.01 E5.01, E6.01 Image: State is a state | requirements in the | 2018 WSEC Requir The following inform Washington State E For questions about NA NA NA NA PROJECT CLOS YES | ements for Com nation is necessa inergy Code, Co this report, con C408.1.2 C408.1.2 C408.1.4 C103.6.3 C408.1.2 C408.1.4 C103.6.3 C408.4.1 SE OUT DOCU C103.6.3 | mercial Buildings includi ary to check a permit app mmercial Provisions. tact WSEC Commercial Commissioning requirements in construction documents Commissioning requirements in construction documents Functional performance testing criteria UMENTATION Project close out documentation requirements | Include general summary of Cx plan per C408.1.2 including: 1) Narrative description of activities; 2) Responsibilities of the Cx team; 3) Schedule of activities including verification of project close out documentation per C103.6; 4) Conflict of interest plan (if required) Include in general summary that a Cx project report and Compliance Checklist (Figure C408.1.4.1) shall be completed by the Certified Cx Professional and provided to the owner prior to the final electrical inspection Identify in plans and specifications the intended operation of all equipment and controls during all modes of operation, including interfacing between new and existing-to-remain systems | dministered by ©2023 NEEA, All rights reserved otors and electrical system requirements in the com.techsupport@waenergycodes.com | REVISIONS: (2023-06-16) INITIAL REVIEW SET |
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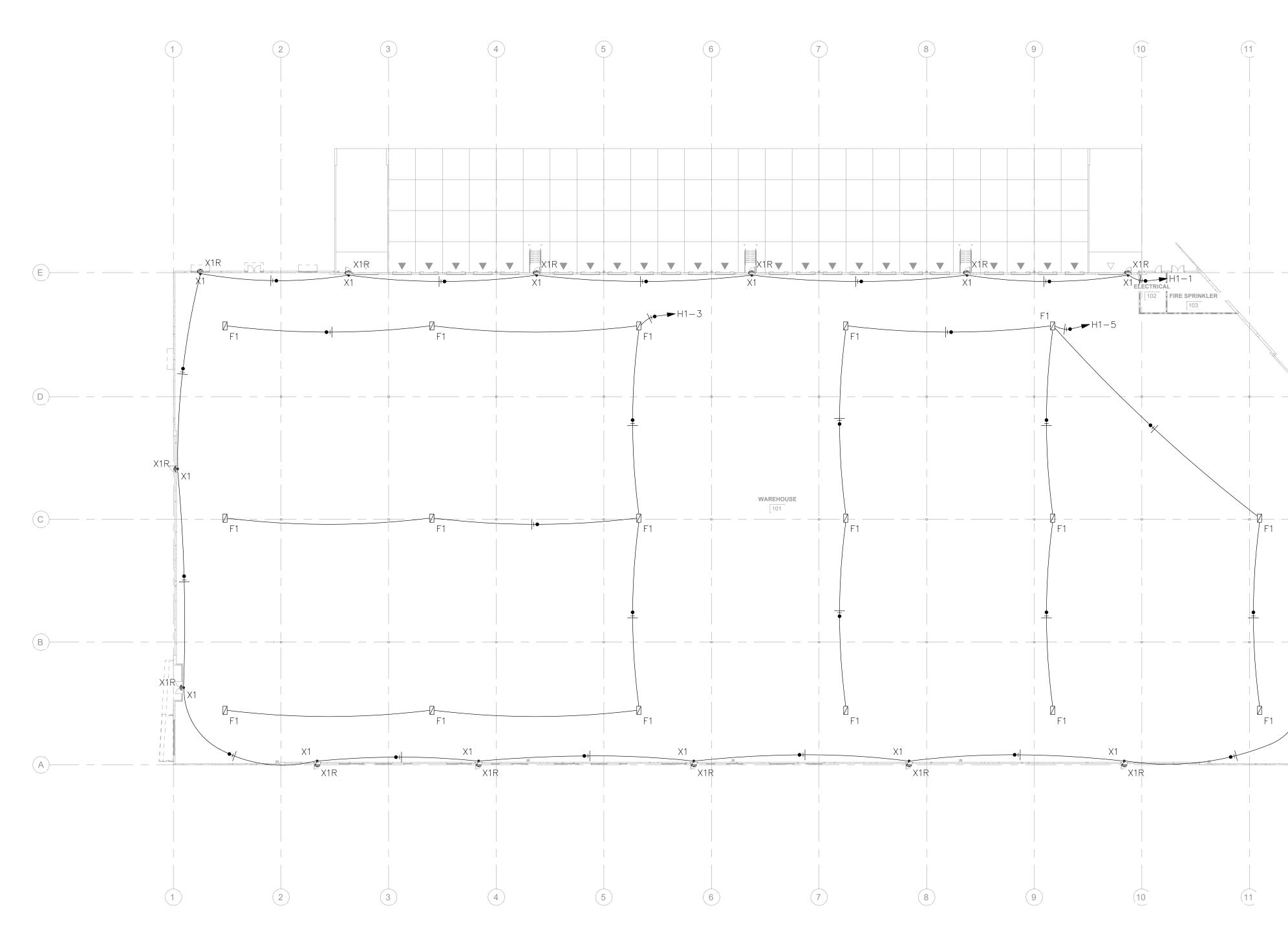








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| (12) | | |
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| | — E | FORTRESS PUYALLUP |
| | | 240 114TH ST SE PUYALLUP, WA 98372 REVISIONS: |
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| | | plot date: 06-29-23 drawn by: B.R.M. job number: 23-027 |

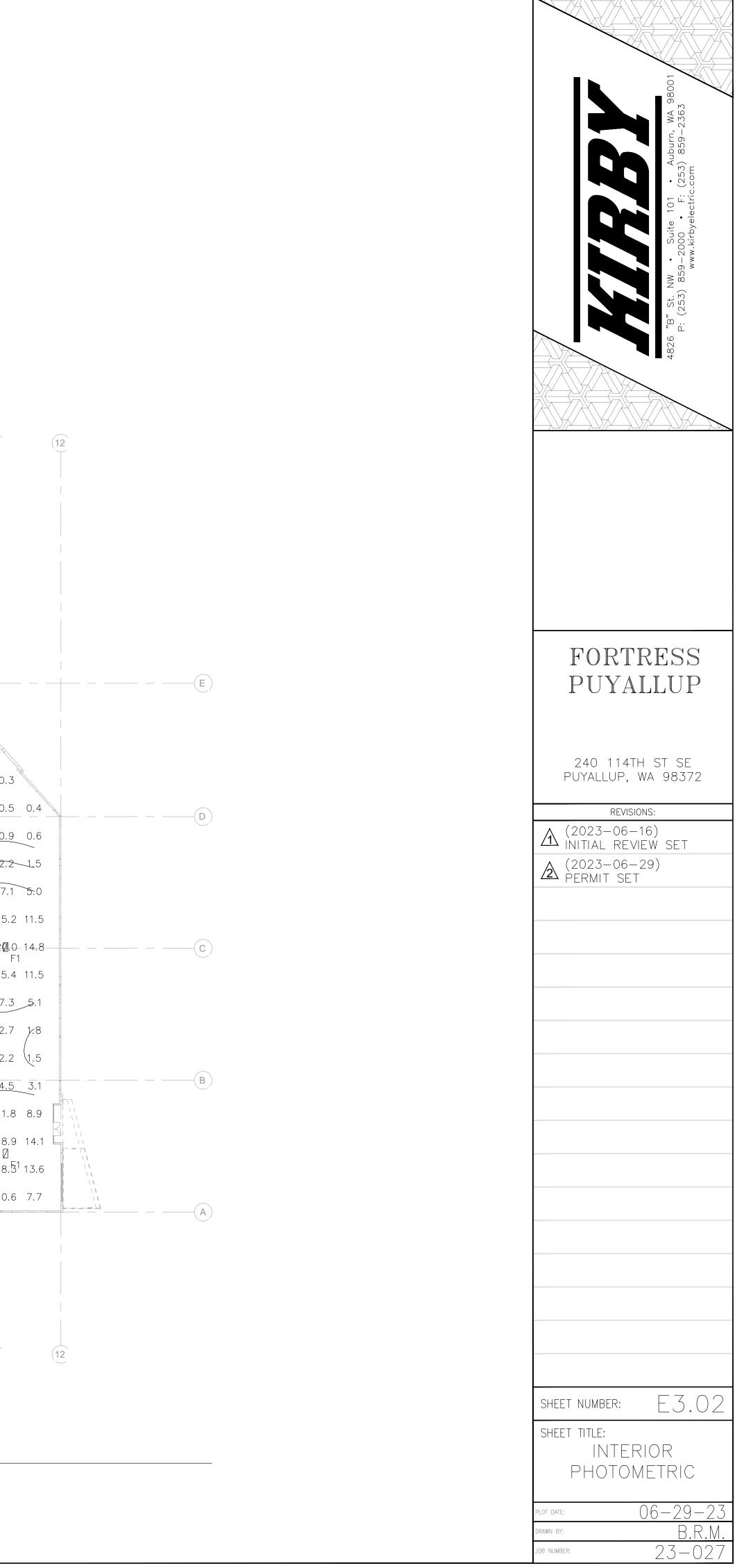




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| FOOT-CANDLES | 20.2 | | | | | | | | |
| FOOT-CANDLES | | | | | | | | | |
| MINIMUM FOOT-CANDLES | 0.2 | | | | | | | | |
| MINIMUM TO MAXIMI FC RATIO | M 0.01 | INTI | ERIOR F | PHOTOMET | RIC LUMIN | AIRE SCHI | EDULE | | |
| MAXIMUM TO MINIMI FC RATIO | M 82.49 | CALLOUT | SYMBOL | | DESCRIPTION | MOUNTING | MODEL | WATTAGE VOL | TS QUANT |
| AVERAGE TO MINIM FC RATIO | M 21.01 | F1 | | HIGHBAY | | SUSPENDED | ENVISION LED-LHB-4FT-3P320W | 325.01 MULTIPL | E 17 |
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|-------------------------------|----------------|-------------|------|-------|--------|-----|--------------------------|------------------|--------------------|----------------|-------------|--------------|------|----------|-----------|----------------|------------|----------|--------|----------|--------------|---------------|------------------------------------|--------------|-------|--------|-----|
| LIGHTING | | 9.99 | 12.5 | (12 | .5%) | | RECE HEA ⁻ | EPTACLES TING | 5 0.72 11.4 | 0.72 11.4 | (50 (10) | %>10) 0%) | | | | | | | | | HEAT TOTA | ING L LOAD | 11.4 | 11.4 12.5 | (100% | %) | |
| | | CONN KVA | | | | | | | | A CALC KV | | | | LIG | HTING | - | | | 25%) | | RECE | PTACLES | 0.72 | 0.72 | (50% | >10) | |
| | | | | | | | | TC | TAL CONNECTED KVA | A BY PHASE | 8.46 | 6.65 | 6.96 | | | | CONN KVA | CALC KVA | | <u> </u> | <u> </u> | | | A CALC KVA | | | · |
| 41 20/1 | SPACE | | | | | 0 | 42 | | | | | | 4.36 | | | | | | | | | тот | AL CONNECTED KV | A BY PHASE | 3.67 | 3.77 | 4.9 |
| 39 20/1 | SPACE | | | | 0 | | 40 | ÍÍ | | | | 3.72 | | 41 | 20/1 | | | | | 0 | 42 | 20/1 | | | | 9 | 0 |
| 37 20/1 | SPACE | | | 0 | | | 38 | 50/3 | XFMR X1 | | 4.31 | | | 39 | 20/1 | SPACE | | | 0 | | 40 | , | | | | 0 | ĺ |
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| 17 20/1 19 20/1 | SPACE | | | 0 | | 0 | 18 20 | 20/1 | SPACE | | 0 | | 0 | 19 | | | | 0.828 | _ | | 20 | 20/1 | | | 0 | \cap | 1 |
| 15 20/1 | SPACE SPACE | | | | 0 | | 16 | 20/1 | SPACE SPACE | | | 0 | | 17 | 20/2 | REF-4 | | | | 0.828 | 1 1 | 20/1 | | | | | |
| 13 20/1 | SPACE | | ľ | 0 | ~ | | 14 | 20/1 | SPACE | | 0 | | | 15 | 20/1 | | -4 | | 1.62 | | 16 | , , | SPACE | | | 0 | ĺ |
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| 9 20/1 | SPACE | | | | 0 | | 10 | 20/1 | SPACE | | | 0 | | 11 | 20/2 | REF-3 | | | | 0.828 | 1 1 | ' | EWH-1 | | | | 1 |
| 7 20/1 | SPACE | | | 0 | | | 8 | 20/1 | SPACE | | 0 | | | 9 | | | | 0.020 | 0.828 | | 10 | , | ELEC RM. LIGHTING | | | 0.316 | 1 |
| 5 20/1 | | LIGHTING | | | 2.00 | 2.6 | 6 | 20/1 | SPACE | | | | 0 | | 20/1 | | - <u>Z</u> | 0.828 | | 1.02 | 8 | <i>'</i> | IRRIGATION RECEPT | | 0.18 | | 0. |
| 3 20/1 | | LIGHTING | | | 2.93 | | 4 | 20/1 | SPACE | | | 0 | | 3 | 20/1 | UH-1, UH- | 2 | | 0.828 | 1.62 | 4 | , | PHONEBOARD RECE FIRE RECEPTACLE | -PTACLE | | 0.18 | 0. |
| 1 20/1 | | NS / EGRESS | | 0.3 | | | 2 | 20/1 | EXTERIOR LIGHTING | | 3.84 | | | 1 | 20/2 | REF-1 | | 0.828 | | | 2 | ' | ELEC RM. RECEPTA | | 0.18 | | |
| # BKR | CIRCUIT | DESCRIPTION | | А | В | С | # | BKR | CIRCUIT DESCRIPTIO | N | A | В | С | # | BKR | CIRCUIT DI | ESCRIPTION | A | В | С | # | | CIRCUIT DESCRIPTIO | ON | А | В | C |
| CKT CKT | | | | | OAD KV | Ά | СКТ | СКТ | | | | _OAD KV | /A | CKT | 1 | | | | oad kv | /Α | СКТ | СКТ | | | LC | AD KV | |
| FED FROM N Note | M2R—#5 | | INE | UIRAL | . 100% | | | | LUGS STAN | NDARD | | | | NOTI | FROM × | | | NEUTRAL | _ 100% | | | | LUGS STA | NDARD | | | |
| MOUNTING S | | | | | PS 125 | | | | MAIN BKR | | | | | | NTING S | | | BUS AMP | | | | | MAIN BKR | | | | |
| ROOM | | | | | 480Y/2 | | 4W | | AIC 65,000 | | | | | ROO | | | | VOLTS : | | | 4W | | AIC 65,00 | | | | |
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| SHEET NUMBER: | | E5. | \cup 1 |
| SHEET TITLE: PANEL S | CHE | DUL | ES |
| | $\cap \cap$ | $\cap \cap$ | |
| PLOT DATE: DRAWN BY: | Ub | <u>-29-</u> r f | - <u>23</u> |

B.R.M. 23-027

JOB NUMBER:

| | SB-# | ¥1 | | | | |
|-----------------------|--------------------------------|---|-------------------|---|---|---------|
| | NTING SURFAG | | 2000 | 3P 4W | AIC 65,000 MAIN BKR MLO LUGS FEEDTHRU | |
| CKT # | BREAKER TRIP/POLES | CIRCUIT DESCRIPTION | L A | OAD KVA B C | FEEDER RACEWAY AND CONDUCTORS | |
| 1 2 3 | 20/3 20/3 | SPACE SPACE | 0 | | | |
| 3 | 20/3 | SPACE LUG LOAD: SWITCHBOARD MSB-#2 TOTAL CONNECTED KVA BY PHASE | 0 8.46 8.46 | 0 0 6.65 6.96 6.65 6.96 | | |
| LIGH | HTING | <u>CONN KVA</u> <u>CALC KVA</u> 9.99 12.5 (125%) | | RECEPTACL | ES 0.72 0.72 (50%>10) | |
| | | | | HEATING TOTAL LOA | 11.4 11.4 (100%) | |
| | SB-# | 42 | | | | |
| | NTING SURFAG FROM MSB-# | | 2000 | 3P 4W | AIC 65,000 MAIN BKR MLO LUGS FEEDTHRU | |
| CKT # | BREAKER TRIP/POLES | CIRCUIT DESCRIPTION | L A | OAD KVA | FEEDER RACEWAY AND CONDUCTORS | |
| 1 2 | 125/3 20/3 | PANEL H1 SPACE | 8.46 | 6.65 6.96 0 0 | 1-1/2"C,3#2/0 AL,#2/0 AL N,#6G | |
| 3 | 20/3 | SPACE LUG LOAD: SWITCHBOARD MSB-#3 | 0 | 0 0 0 0 | | |
| | | TOTAL CONNECTED KVA BY PHASE CONN KVA CALC KVA | 8.46 | 6.65 6.96 | CONN KVA CALC KVA | |
| LIGH | HTING | 9.99 <u>12.5</u> (125%) | | RECEPTACL HEATING | | |
| | | | | TOTAL LOA | | |
| \mathbb{N} | SB-# | 43 | | | | |
| | NTING SURFAG FROM MSB-# | | 2000 | 3P 4W | AIC 65,000 MAIN BKR 1200 LUGS FEEDTHRU | |
| CKT # | BREAKER TRIP/POLES | CIRCUIT DESCRIPTION | L A | OAD KVA B C | FEEDER RACEWAY AND CONDUCTORS | |
| 1 2 | 20/3 20/3 | SPACE SPACE | 0 | 0 0 0 0 | | |
| 3 | 20/3 | SPACE LUG LOAD: SWITCHBOARD MSB-#4 | 0 | 0 0 0 0 | | |
| | | TOTAL CONNECTED KVA BY PHASE CONN KVA CALC KVA | 0 | 0 0 | CALC KVA | |
| | | | | TOTAL LOA Balanced | | |
| \mathbb{N} | SB-# | 44 | | | | |
| ROON Moun Fed f | 1 NTING SURFA FROM MSB-# | VOLTS 480Y CE BUS AMPS 2 | 2000 | 3P 4W | AIC 65,000 MAIN BKR 1200 LUGS STANDARD | |
| NOTE CKT # | BREAKER TRIP/POLES | CIRCUIT DESCRIPTION | | OAD KVA | FEEDER RACEWAY AND CONDUCTORS | |
| # 1 2 | 20/3 20/3 | SPACE SPACE | A 0 0 | B C 0 0 0 0 | | F |
| 3 | 20/3 | SPACE | 0 | 0 0 | | |
| | | TOTAL CONNECTED KVA BY PHASE | 0 | 0 0 | | |
| | | CONN KVA CALC KVA | | TOTAL LOA | D O CALC KVA | |
| | | | | BALANCED | 3-PHASE LOAD 0 A | |
| | | FIRE PUMP ROOM | | | | |
| | | | | | | |
| | | DFP-CC |) | | MSB-#1 MSB-#2 MSB-#3 480Y/277V 모 모 | MSB-#4 |
| | UTILITY TR | CANSFORMER (CONNECTION | PUMP | | 3P 4W 2000A | |
| | 6 | | | | M (1200A | (1200A |
| | | | | | GROUND GROUND C C C C C C C C C C C C C C C C C C C | |
| | | | | 200 | | 12 |
| | | | Ĺ | | L | 2 = 4 |
| | | | | | | |

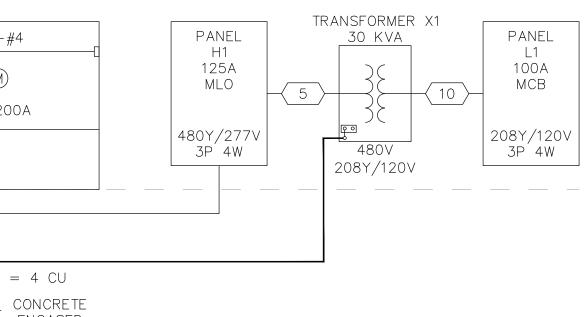
ONE-LINE RISER DIAGRAM

(1

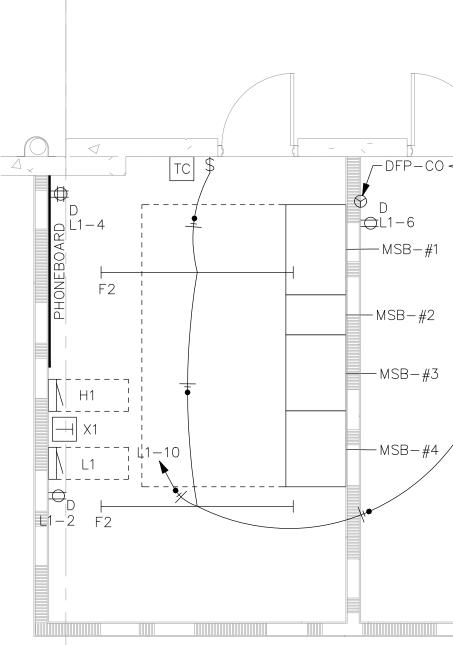
FLAG NOTES:

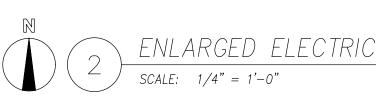
DIESEL FIRE PUMP, POWER CO FIRE PUMP TO BE PROVIDED B

| FEEDER SCHEDULE | | | | | |
|-------------------------------|----------------|-------------------------------------|--|--|--|
| ID | FEEDER AMPS | CONDUIT AND FEEDER | | | |
| $\left\langle 5\right\rangle$ | 50 | 1"C,3#4 AL,#10G | | | |
| (10) | 100 | 1-1/2"C,3#1/0 AL,#1/0 AL N,#6G | | | |
| (12) | 125 | 1-1/2"C,3#2/0 AL,#2/0 AL N,#6G | | | |
| 200 | 2000 | (6)4"C,3#600kcmil AL,#600kcmil AL N | | | |
| | • | | | | |









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| | "B" St. NW • Suite P: (253) 859–2000 • |
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| | FORTRESS |
| | PUYALLUP |
| | |
| | 240 114TH ST SE |
| | PUYALLUP, WA 98372 |
| | REVISIONS: (2023-06-16) INITIAL REVIEW SET |
| ONNECTION ONLY. 3Y TENANT. | (2023-06-29) PERMIT SET |
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| F_2 F_2 F_2 | |
| | |
| L1-12 | SHEET NUMBER: E6.01 |
| EWH-1 12.5A,120V1P2W | SHEET TITLE: ONE-LINE RISER |
| | DIAGRAM |
| CAL & FIRE PUMP ROOM | ріот date: 06-29-23 drawn by: B.R.M. |
| | JOB NUMBER: 23-027 |