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ADESIVE SHALL BE STORED ON THE JOBSITE IN A GOOL, DRY LOCATION IN CONFERNMENTS. ADDRESSYE ANCORS FOR INSTALLATION IN SOCIETY SHALL SE HEIT HIT RESOURS (ICC 1986-2022). ALTERNATE PROJUCTS SHALL CARRY AN ICC ACCEPTANCE CRITERIA ACGOS AND SHALL BE APPROVED BY THE DISINEER IN MITTING PROJUCTS SHALL CARRY AN ICC ACCEPTANCE CRITERIA ACGOS AND SHALL BE APPROVED BY THE DISINEER IN MITTING PROJUCTS SHALL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH CROCOCODY ACGUERANCE ON THE TRESSONS (ICC 1987-2022). ALTERNATE PROJUCTS SHALL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH CROCOCODY AND SHALL BE APPROVED BY THE ENGINEER IN MITTING PROJUCTS SHALL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA ACGOS AND SHALL BE APPROVED BY THE ENGINEER IN MITTING PROJUCTS TO THE LOGGET FILL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA ACGOS AND SHALL BE APPROVED BY THE ENGINEER IN MICHTING PROJINCE TO DELIVERY TO THE LOGGET FILL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA ACGO AND SHALL BE APPROVED BY THE ENGINEER IN MICHTING PRICE TO DELIVERY TO THE LOGGET AND AN ADEITING CONTENT AND AND SHALL BE APPROVED BY THE ENGINEER IN MICHTING PRICE TO DELIVERY TO THE LOGGET AND AN ADEITING CONTENT AND AND SHALL BE APPROVED BY THE ENGINEER IN MICHTING PRICE TO DELIVERY TO THE LOGGET AND AN ADEITING CONTENT AND AND SHALL BE APPROVED BY THE ENGINEER IN MICHTING PRICE TO DELIVERATION THE THING AND INCLURANCE AND SHALL BE APPROVED BY THE ENGINEER IN MICHTING PRICE TO DESCRIPTION AND ADDRESIONAL CARRY AND ADDRESS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL RECOVER INSTRUCTIONS. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL RECOVER THAT THE MICHTORY IN THE MICHTORY IN THE MINIMUM DIMENSIONAL RECOVER INSTRUCTIONS. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL RECOVER INSTRUCTIONS. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DI	APRESIVE SHALL BE STORED ON THE JOSSITE IN A COOL DRY LOCATION IN CONFERMANCE WITH THE YAMURATURES & REGIREMENTS. ADDRESS/S ADDRESS TRANSPORT THE YAMURATURES & REGIREMENTS. ADDRESS/S ADDRESS TRANSPORT THE YAMURAS THREE & YAMURAS THREE YAMUR	OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS. ADHESIVE ANCHOR INSTALLERS SHALL BE TRAINED BY A QUALIFIED REPRESENTATIVE OF THE ADHESIVE MANUFACTURER ON THE PROPER
APHESINE ANCHORS FOR INSTALLATION IN SOLID CONCRETE SHALL CARRY AN ICC APHESINE ANCHORS FOR INSTALLATION IN SOLID CONCRETE SHALL CARRY AN ICC APHESINE ANCHORS FOR INSTALLATION IN CONCRETE FILL OVER METAL DECK INTING PRICE TO DELIVERY TO THE JOBBITE. APHESINE ANCHORS FOR INSTALLATION IN CONCRETE FILL OVER METAL DECK SHALL BE HITTH FEBOLOGY (ICC) FERS 2323). ALTERNATE PRODUCTS SHALL DE CHITTH FEBOLOGY (ICC) FERS 2323). ALTERNATE PRODUCTS SHALL DE CHITTH FEBOLOGY (ICC) FERS 2323). ALTERNATE PRODUCT ANCHORS FOR OVER-PEAD INSTALLATION THEM METAL DECK, INTO CONCRETE FILL SHALL BE INTI HIT RESOLVED IN CONCRETE PRODUCTS SHALL DE CHITTING FRICE TO DELIVERY TO THE JOBBITE. APHESING ANCHORS FOR OVER-PEAD INSTALLATION THEM METAL DECK, INTO CONCRETE FILL SHALL BE INTI HIT THE RESOLVED IN CONCRETE MASON WAS HILL BE APHENYDE DY THE ENGINEER IN WRITING FRICE TO DELIVERY TO THE JOBBITE. APHESING ANCHORS FOR OVER-PEAD INSTALLATION IN CONCRETE MASON SHALL BE APHENYDE DY THE ENGINEER IN WRITING FRICE TO DELIVERY TO THE JOBBITE. ANCHORS SHALL BE OF THE TYPE, DIAMETER, ADD MININUM DIMENSIONAL DECKORDANCE WITH ICC ACCEPTANCE CRITERIA ASSO AND SHALL BE APPROVED BY THE ENGINEER IN WRITING FRICE TO DELIVERY TO THE JOBBITE. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MININUM DIMENSIONAL DECKORDANCE MINING CARDED SHALL DECKNOLOGY. ALTERNATE RECOLORS BHALLED IN HOLES DRILLED WITH DRILING CAUR REGUREMENTS (EMERICAENES) FIRELISED CONCRETE CR MASONE, ANOLOGY DIAMENER IN WRITING FRIENDER TO DELIVERY TO THE JOBBITE. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MININUM DIMENSIONAL ANCHORS SHALL BE OF THE TYPE, DIAMETER AND MININUM DIMENSIONAL REGUREMENTS (DATED BASING REINFORCED CONCRETE CR MASONE, AND/CORE DRIVEN FASTENERS FOR TENSION LOADS IS LIMITED TO SUBSTICE. ANCHORS SHALL BE CONSE LIMITED TO LESS THAN 1000 POINDS. THE USE OF FORMER FASTENERS FOR TENSION LOADS IS LIMITED TO SUBSTICE. ALLORED AND COLTEN FOR DEVEN FASTENERS ARE NOT ALLORED AND COLTEN FOR DEVEN FASTENERS ARE NOT ALLORED AND COLTENCE OR DAVIDS INCOME TO RESOLVER. ANDISON IN ANC	APHEBIVE ANCHORS FOR INSTALLATION IN SOLD CONCRETE BHALL BE HILTI HT RESOLUTION (CONSTRUCTION). THEN ALL PROVIDED BY THE BINGINEER IN MILTING PRICE TO DELIVERY TO THE JOBBITE. APHEBIVE ANCHORS FOR INSTALLATION IN CONCRETE FILL OVER METAL DECK MILTING PRICE TO DELIVERY TO THE JOBBITE. APHEBIVE ANCHORS FOR OVERHEAD INSTALLATION IN MURCHART PRODUCTS SHALL DE HILTI HT REBOORD (CONSTRUCTION IN CONCRETE FILL OVER METAL DECK MILTING PRICE TO DELIVERY TO THE JOBBITE. APHEBIVE ANCHORS FOR OVERHEAD INSTALLATION THRE METAL DECK, INTO CONCRETE TILL BHALL DE HILTI HT REBOORD (CONSTRUCTION DELIVERY TO THE JOBBITE. IN MITTING PRICE TO DELIVERY TO THE JOBBITE. APHEBIVE ANCHORS FOR OVERHEAD INSTALLATION THRE METAL DECK, INTO CONCRETE TILL BHALL DE HILTI HT REBOORD (CONSTRUCTION DELIVERY TO THE JOBBITE. APHEBIVE ANCHORS FOR OVERHEAD INSTALLATION THRE METAL DECK, INTO CONCRETE TILL BHALLE DE HILTI HT REBOORD (CONSTRUCTION DELIVERY TO THE JOBBITE. APHEBIVE ANCHORS FOR OVERHEAD INSTALLED (CONSTRUCTION DELIVERY TO THE JOBBITE. APHEBIVE ANCHORS FOR OVERHEAD INSTALLED (CONSTRUCTION DELIVERY TO THE JOBBITE. APHEBIVE ANCHORS FOR OVERHEAD INSTALLED (CONSTRUCTION DELIVERY TO THE JOBBITE. APHEBIVE ANCHORS BHALL DE IN MITTING PRICE TO DELIVERY TO THE JOBBITE. APHEBIVE INCOLORD BHALL DARK AND EDGE DERIVERY TO THE JOBBITE. ANCHORS SHALL BE OF THE TYPE, DARVETER, AND MINIMUM DIMENSIONAL REGULTRY MALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE PREODUCED BHALLED IN NORTHORNAUCE AND THE ANCHOR MINIMO DIVERSIONAL DELIVER AND REMOVED AND AND RECEPT. (CONSTRUCTIONS. ANCHORS SHALL BE NOTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE DRAWINGS. INSTRUCTORS. ANCHORS SHALL BE OF THE TYPE, DARVETER AND MINIMUM DIMENSIONAL REGULTRY ADD CONTROL ONDS SHALL BE IMMITED TO SEMETORICOL DO ANCHORS. ALLONG THERE AND SHALLED IN NORTHORY AND THE DRILLED WITH THE ANCHORS INSTRUCTORS. ANCHORS SHALL BE APA-RATED STRUCTUREL DUE NORTHOR TO REAL ANCHORS SHALL BE APA-RATED FREMEWORD OF STELL DECK WITH STRUCTURAL CARDE IN THE STRUCTURAL DUE NORTHOR TO REAL STR	ADHESIVE SHALL BE STORED ON THE JOBSITE IN A COOL, DRY LOCATION IN
ADHESIYE ANCHORS FOR INSTALLATION IN CONCRETE FILL OVER METAL DECK SHALL DERKY MICO APPROVING TERR 3222). ALTERVATE PRODUCTS SHALL DERKY MICO APPROVING TERR 3222). ALTERVATE PRODUCTS SHALL DERKY MICO APPROVAL THAT IS BEDED ON TERL DEGINEER. IN ARTING PRICE ON DELIVERY TO THE JOBENT CONCRETE FILL SHALL BE HIT IN TRESO FOR 10K TERRATE. ADHESIYE ANCHORS FOR OVERHEAD INSTALLATION THRU METAL DECK, INTO CONCRETE FILL SHALL BE HIT INTO RECORT TO DELIVERY TO THE JOBENT. ADHESIYE ANCHORS FOR INSTALLATION IN CONCRETE MASOR SHALL BE APPROVED D'THE ENGINEER IN ARTING FRICE TO DELIVERY TO THE JOBENT. ADHESIYE ANCHORS FOR INSTALLATION IN CONCRETE MASORY SHALL BE APPROVED D'THE ENGINEER IN ARTING FRICE TO DELIVERY TO THE JOBENT. ADHESIYE ANCHORS FOR INSTALLATION IN CONCRETE MASORY SHALL BE HITTIT HITO ACCEPTANCE CRITERIA ASSO AND SHALL BE APPROVED D'THE ENGINEER IN ARTING FRICE TO DELIVERY TO THE JOBENT. ANCHORS SHALL BE INSTALLED IN NOTING FRICE TO DELIVERY TO THE JOBENT. ANCHORS SHALL BE INSTALLED IN HOLES DIRILED WITH DRILLING EQUIPMENT OF THE THE ENGINEER IN ARTING FRICE TO DELIVERY TO THE JOBENT. ANCHORS SHALL BE INSTALLED IN HOLES DIRILED WITH DRILLING EQUIPMENT OF THE THE REGURED IN THE MANIFACTURER'S PHOLISHED ICC REPORT. HALLONG CONTING CONTONING CONFORMANCE INTO THE ANCHOR MANUFACTURER'S INSTRUCTIONS. MEEN INSTALLING ANCHORS IN EXISTING FEINFORCED CONCRETE OR MASORY, ANOTO CONTING CONSTINUES ENTITIE ANOTONIC ADDS IS LIMITED TO SUPFORT OF MORE LOADS SHALL BE LIMITED TO LESS THAN ICO POINTS. THE USE OF PROVER DRIVEN PASTEMERS FOR TENSION LOADS IS LIMITED TO SUPFORT OF MORE LOADS SHALL BE LIMITED TO LESS THAN ICO POINTS. THE USE OF PROVER DRIVEN PASTEMERS FOR TENSION LOADS IS LIMITED TO SUPFORT OF MORE LOADS SHALL BE LIMITED TO LESS THAN ICO POINTS. THE USE OF PROVER DRIVEN PASTEMERS FOR TENSION LOADS IS LIMITED TO SUPFORT OF MORE LOADS SHALL BE LIMITED TO LESS THAN ICO POINTS. THE USE OF PROVER DRIVEN PASTEMERS FOR TENSION LOADS IS LIMITED TO SUPFORT OF MORE LOADS SHALL BE LIMITED TO LESS THAN ICO ADYNE CONTREL SHALL	APHESIVE ANCHORS FOR INSTALLATION IN CONCRETE FILL OVER METAL DECK SHALL DERKY IN ICO APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE SHALL DERKY IN ICO APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE SHALL DERKY IN ICO APPROVAL THAT IS BASED ON TESTING IN A CONCRETE FILL SHALL BE INTILLED INSTALLATION THRU METAL DECK, INTO CONCRETE FILLS SHALL DERKY IN ICO APPROVAD FILO THE JOBBITE. ADHESIVE ANCHORS FOR OVERHEAD INSTALLATION THRU METAL DECK, INTO CONCRETE FILLS SHALL DERKY IN ICO APPROVAD FILO THE JOBBITE. ADHESIVE ANCHORS FOR INSTALLATION THRU METAL DECK, INTO CONCRETE FILLS SHALL CARRY IN ICO APPROVAD FILO THE JOBBITE. ADHESIVE ANCHORS FOR INSTALLATION IN CONCRETE MAGONEY SHALL BE HILT HIT HITS MEDIATE. IN WRITING PRIOR TO DELIVERY TO THE JOBBITE. ADHESIVE ANCHORS FOR INSTALLATION IN CONCRETE MAGONEY SHALL BE HILT HIT HITS DEAL DE ON THE DISING REIOR TO DELIVERY TO THE JOBBITE. ADHESIVE ANCHORS FOR INSTALLATION IN CONCRETE MAGONEY SHALL BE HILT HIT HITS DE OF THE TYPE. DIAMETER, AND MINIMUM DIMENSIONAL EQUIREMENTS (INSEED WITH DEGLINEER IN WRITING PRIOR TO DELIVERY TO THE JOBBITE. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE DEGLINED IN THE MANUFACTURER'S PUBLISHED ICO REPORT. HOLES SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURER'S DUBLISHED ICO REPORT. HOLES SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURER'S DUBLISHED ICO REPORT. HOLES SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURER'S DUBLISHED ICO REPORT. HOLES SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN EXISTING REINFORCED CONCRETE OR MAGONEY, AVOID CUTTING OR DAMAGINS THE EXISTING REINFORCED STALLED IN THE TYPE REQUIRED IN HOLES SHOLE THE ACCORDING TO PRODUCT SHALL BE INSTALLED IN HOLES DRIVEN AND THE DRILLED IN ACCORDED AND CLADDING SHALL DRILL RACE THE RESTING REINFORCED ON THE MEDIA MINISTING THE DRIVEN FASTENESS FROM INDERSIDE	ADHESIVE ANCHORS FOR INSTALLATION IN SOLID CONCRETE SHALL BE HILTI HIT RE500-SD (ICC #ESR-2322). ALTERNATE PRODUCTS SHALL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA AC308 AND SHALL BE APPROVED BY THE ENGINEER IN
CONCRETE FILL SHALL BE HILTI HIT REBOG-3D (ICC IEGR-2022). ALTERNATE REQUCTS SHALL CARRY AN ICC APROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA ACS3D AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRICK TO DELIVERY TO THE JOBSITE. ADDESIVE ANCHORS FOR INSTALLATION IN CONCRETE MASONRY SHALL BE HILTI HIT HYDIO MAX (ICC IEGR-IBG1) OR SIMPSON SET (ICC IEGR-ITT2) ALTERNATE PROJOCIS SHALL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA ACS3 AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRICK TO DELIVERY TO THE JOBSITE. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (DEBEDMENT, SPACING AND EDGE DISTANCE) AS INDICATED ON THE JOBSITE. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (DEBEDMENT, SPACING AND EDGE DISTANCE) AS INDICATED ON THE JOBSITE. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURERS PUBLISHED ICC REPORT. HOLES SHALL BE CLEARED IN CONFORMANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS. HENNINGTALLING ANCHORS IN EXISTING REINFORCED CONCRETE OR MASONRY, ANOD CUTTING OR DAVAGING THE EXISTING REINFORCING BARS. PONDER DRIVEN FASTENERS IN REINFORCED CONCRETE: THE USE OF PONDER DRIVEN FASTENERS FOR TENSON LOADS IS LIMITED TO SUPPORT OF MINOR LOADS SHALL BE LIMITED TO LESS THAN 100 POUNDS. THE USE OF PONDER DRIVEN FASTENERS FROM UNDERSIDE OF SITEL DECK MITH STRUCTURAL CONCRETE FLIL REQUIRES FILE DECK MITH STRUCTURAL CONCRETE FLIL REQUIRES FILE DECK MITH STRUCTURE. PARENTS SHALL HAVE ICC APPROVAL FOR THE TYPE OF CONCRETE USED DIAMAGET OT THE EXISTING ROMER FROM UNDERSIDE OF SITEL DECK MITH STRUCTURE. PARENTS SHALL HAVE ICC APPROVAL FOR THE TYPE OF CONCRETE USED REINFORCED CONCRETE. JUSE CARE AND CAUGHT TO ANOD CUTTING OR DAMAGET OT THE EXISTING ROMER FROM THE REINFORCED ENTING THE RECORDER SHALL HAVE ICC APPROVAL FOR THE TYPE OF CONCRETE USED REINFORCED ON THE EXISTING ROMER FROM THE REINFORCED ENTING CONTING CARE.	CONCRETE FILL SHALL BE HILT HIT RESOLAD (ICC TEGR. 2022). ALTERNATE REDOLTS SHALL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA AC305 AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE JUBBIT. ADDESIVE ANCHORS FOR INSTALLATION IN CONCRETE MAGONEY SHALL BE HILT HIT HYDD MAX (ICC TEGR. TEGT) OR SIMPSON SET (ICC TEGR. 1TZ)) ALTERNATE PRODUCTS SHALL CARRY AN INCC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA AC305 AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE JUBBIT. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMEEDMENT, SPACING AND EDGE DISTANCE) AS INDICATED ON THE TYPE REQUIRED IN THE MANUFACTURES PUBLICHT DISLONG ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMEEDMENT, SPACING AND EDGE DISTANCE) AS INDICATED ON THE DRAWINGS. MACHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURES PUBLICHED INTO CRIPTORY MANUFACTURES INSTRUCTIONS. WHEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE: THE USE OF PONDER DRIVEN FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINING OR DIAMEMENT FRANCES FROM UNDERSIDE OF SITEL DATE OF DIAMEMENT FASTENERS FROM UNDERSIDE OF SITEL DECK MASONER', ANOTO CHIN'S PARTENERS FROM UNDERSIDE OF SITEL DECK MILTORY OF MINING OR DAVAGONE DRIVEN FASTENERS ARE NOT ALLOYABLE TENSION LOADS SHALL BE LIMITED TO LESS THAN 100 POUNDS. THE USE OF PONDER DRIVEN FASTENERS FROM UNDERSIDE OF SITEL DECK MITS STUDIETY OF MINING OR DAVER PRIVEN FASTENERS ARE NOT ALLOYABLE TENSION LOADS SHALL BE LIMITED TO LESS THAN 100 POUNDS. THE USE OF PONDER DRIVEN FASTENERS FROM UNDERSIDE OF SITEL DECK MITS STUDIETY OF MINING AND THE MENTING MON-PRESTRESSED REMARKER ON THE DRAWINGS, POYER DRIVEN FASTENERS ARE NOT ALLOYABLE TENSION CARDONE FROM THE REINFORCED SHELL DECK MITS STUDIETY OF MINING AND THE MEANT FROM THE TESTING AND MASONER', AND T	ADHESIVE ANCHORS FOR INSTALLATION IN CONCRETE FILL OVER METAL DECK SHALL BE HILTI HIT RE500-SD (ICC #ESR-2322). ALTERNATE PRODUCTS SHALL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA AC308 AND SHALL BE APPROVED BY THE
HILT HIT MYISO MAX (ICC PERF-1967) OR SIMPSON SET (ICC PERF.11T2). ALTERNATE REQUECTS SHALL CARKY AN ICC APPROVAL THAT IS BAGED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE OR ITERIA ACGS AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE JOBSITE. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDDENT, SPACING AND EDGE DISTANCE) AS INDICATED ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDDENT, SPACING AND EDGE DISTANCE) AS INDICATED ON THE DRAINES. MICHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIRMENT OF THE TYPE REQUIRED IN THE MANUFACTURE'S FUBLISHED ICC REPORT. MONDER STRUCTIONS. WHEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE OR MASONRY, AVOD CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. POWDER DRIVEN FASTENERS IN REINFORCED CONCRETE OR MASONRY, AVOD CUTTING OR DAMAGING THE EXISTING REINFORCING BARS. POWDER DRIVEN FASTENERS IN REINFORCED CONCRETE: LIE USE OF PAYOER DRIVEN FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS SHALL BE LIMITED TO LESS THAN 100 POINDS. THE USE OF PAYOER DRIVEN FASTENERS FROM UNDERSIDE OF STELL DECK WITH STRUCTURAL CONCRETE FILL REQUIRES PLUL OUT TORK, CONCUTS, ETC. ALLOADS THE DRAVINGE, PAYOER DRIVEN FASTENERS ARE NOT ALLOADED THE DRAVINGE, PAYOER DRIVEN FASTENERS ARE NOT ALLOADED AT STELL DECKS MITH INSULATING FILL. PASTENERS SHALL HAVE ICG APPROVAL FOR THE TYPE OF CONCRETE USED RINFCRCED CONCRETE, USE CARE AND CAUTON TO AVOD DUTTING MASCING ALLOADED AT STELL DECKS MITH INSULATING FILL. PASTENERS SHALL HAVE ICG APPROVAL FOR THE TYPE OF CONCRETE USED REINFCRCED CONCRETE, USE CARE AND CAUTON TO AVOD DUTTING MASCING ALLOADED AT STELL DECKS MITH INSULATING FILL. PASTENERS SHALL MAYE ICG APPROVAL FOR THE TYPE OF CONCRETE USED REINFCRCED TO THE DRAVINGE, PROVED PARS. INTO AN ONLY DRAVENCE THE ACTION AND ALLONG REINFORCING BESS, MADUTAN AN INHIBUTING MASCING CONCETTRAL DRAVENCES SPECIFICALLY DESIGNMED AND MASCING TO THE DRAVING REINFORCING BAR	HILT HIT HYDE MAX (ICC EESR-IGT) OR SIMPEON SET (ICC EESR-IGT2). ALTERNATE PRODUCES SHALL CARRY AND ICC APPROVAL THAT IS BEASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA ACSS AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE JOBSITE. ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMEDDMENT, SPACING AND EDGE DISTANCE) AS INDICATED ON THE DRAWNSS. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURERS PUBLISHED ICC REPORT. HOLES SHALL BE CLEARED IN CONFORMANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS. HEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE CR MASCINGY, AVOID CUTTING CONFORMANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS. HEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE CR MASCINGY, AVOID CUTTING CONFORMANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS. HEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE CR MASCINGY, AVOID CUTTING CD DAMAGING THE EXISTING REINFORCED CONCRETE CR MASCINGY, AVOID CUTTING CD DAMAGING THE EXISTING REINFORCED CONCRETE CR MASCINGY, AVOID CUTTING CD DAMAGING THE EXISTING REINFORCED CONCRETE CR CONCURSE IT. ALLOVABLE TENSION LOADS SHALL BE LIMITED TO LESS THAN 100 POINDS. THE USE OF POMDER DRIVEN FASTENERS FROM NUDERSIDE OF STEEL DECK INTH STILLING ANCHORS DRIVEN FASTENERS FROM NUDERSIDE OF STEEL DECK INTH STILLING CONCRETE FILL REQUIRES FROM NUDERSIDE OF STEEL DECK INTH STILLING FONDER DRIVEN FASTENERS FROM NUDERSIDE OF STEEL DECK INTH STILLING FONDER DRIVEN FINS IN EXISTING NON-PRESTRESSED CONDUCED CONCRETE, USE CARE AND CATTON TO AVOID CUTTING CR DAMAGE TO THE EXISTING REINFORCEMENT FASTENERS ARE NOT ALLOVED AND CONCRETE FILL REQUIRES FROM NUDERCIDE TO THE DISTING CR DAMAGE TO THE EXISTING REINFORCEMENT AND THE DRILLED IN NICHOR AND/CR FIN. CUETAIN WALLS FROM DESIGNER/MANUFACTURER SHALL PROVIDE STATEMENT. CUETAIN STALL BE APA-RATED STRUCTURAL USE FANELS CONFORMING TO PROLOCO AND/CR FIN TO REINFORCEMENT AND THE DRIGHTS ON TH REINFORC	CONCRETE FILL SHALL BE HILTI HIT RE500-SD (ICC #ESR-2322). ALTERNATE PRODUCTS SHALL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA AC308 AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE
ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDMENT, SPACING AND EDGE DISTANCE) AS INDICATED ON THE DRAININGS. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH THE ANCHOR MANUFACTURERS INSTRUCTIONS. WHEN INSTALLING ANCHORS IN THE MANUFACTURER'S FUBLISHED ICC REPORT. HOLES SHALL BE CLEARED IN CONFORMANCE WITH THE ANCHOR MANUFACTURERS INSTRUCTIONS. WHEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE OR MASCART, ANOD CUTTING OR DAMAGING THE EXISTING REINFORCED CONCRETE CONCRETE: THE USE OF POWDER DRIVEN FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS SHALL BE LIMITED TO LESS THAN 100 FOUNDS. THE USE OF POWDER DRIVEN FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS SHALL BE LIMITED TO LESS THAN 100 FOUNDS. THE USE OF POWDER DRIVEN FASTENERS FROM UNDERSIDE OF STEEL DECK WITH STRUCTURAL CONCRETE FILL REQUIRED PULL OUT TESTING AS SUPPORT OF MINOR LOADS SHALL BE LIMITED TO LESS THAN 100 FOUNDS. THE USE OF POWDER DRIVEN FASTENERS FROM UNDERSIDE OF STEEL DECK WITH STRUCTURAL CONCRETE FILL REQUIRED PULL OUT TESTING AS SUPPORT OF HED DRAVINGS, POWDER DRIVEN PARTENERS ARE NOT ALLOWED AT STEEL DECKS WITH INSULATING FILL. FASTENERS SHALL HAVE ICC APPROVAL FOR THE TYPE OF CONCRETE USED ON THE JOB. WHEN INSTALLING POWDER DRIVEN PINS IN EXISTING NON-PRESTRESSED DAMAGE TO THE EXISTING REINFORCING BASS. MAINTAIN A MINIMUM CLEARANCE OR CONCRET. USE CARE AND CANTON TO AVOID CUTING OR DAMAGE TO THE EXISTING REINFORCING BASS. MAINTAIN A MINIMUM CLEARANCE OR CONCRET. USE CARE AND GROOVE, INTERIOR TYPE WITH EXTERIOR SHALL BE APA-RATED STRUCTURAL USE PANELS CONFORMING TO PRODUCT STANDARD PS 1 FOR PLYYOOD. FLOOR SHEATHING SHALL BE TONGUE AND GROOVE, INTERIOR TYPE WITH EXTERIOR GLUE, SPAN INDEX (32/16). CURTAIN WALLAND CLADDING DESIGNER/MANUFACTURER SHALL PROVIDE SUPPORTS AND CLAULING MEDISING NEARING AND PROSED ON THE EXILDING STRUCTURE. GURTAIN VALL AND CLADDING DESIGNER/MANUFACTURER SHALL PROVIDE SUPPORTS AND CLAUCIDING STRUCTURAL AND HORIZONTAL LOADS INCLUDING W	ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDMENT, SPACING AND EDGE DISTANCE) AS INDICATED ON THE DRAININGS. ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN CONFORMANCE WITH THE ANCHOR MANUACTURER'S FUBLISHED ICC REPORT. HOLES SHALL BE CLEARED IN CONFORMANCE WITH THE ANCHOR MANOR WITH THE ANCHOR DISTANCE DI CONFORMANCE WITH THE ANCHOR DISTANCE AND CONFORMER OF DAMAGING THE EXISTING REINFORCED CONCRETE OR MASCING, YAVOD CUTTING OR DAMAGING THE EXISTING REINFORCED CONCRETE. POWDER DRIVEN FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS SHALL BE LIMITED TO LESS THAN 100 POUNDS. THE USE OF PONDER DRIVEN FASTENERS FROM UNDERSIDE OF STEEL DECK WITH STRUCTURAL CONCRETE FILL REQUIRED FULL OUT TESTING AS SCHEDULED ON THE DRIVEN FASTENERS ARE NOT ALLOADS THE USE OF PONDER DRIVEN FASTENERS FROM UNDERSIDE OF STEEL DECK WITH STRUCTURAL CONCRETE FILL REQUIRED FULL OUT TESTING AS SCHEDULED ON THE DRIVEN FASTENERS ARE NOT ALLOADS SHALL BE LIMITED TO LESS THAN 100 POUNDS. THE USE OF PONDER DRIVEN FASTENERS FROM UNDERSIDE OF STEEL DECK WITH STRUCTURAL CONCRETE USED ON THE USE OF AND THE DECK WITH STRUCTURAL CONCRETE USED ON THE LOR. ANCHOR SHALL BE CONCRETE FILL REQUIRED FULL OUT TESTING AS DAMAGE TO THE EXISTING REINFORCING BASS. MAINTAIN A MINIMM CLEARANCE OR ONE INCLUS MED AND CANTON TO AVOID CUTTING OR DAMAGE TO THE EXISTING REINFORCING BASS. MAINTAIN A MINIMM CLEARANCE OR OR INCL BETMERN THE REINFORCEMENT AND THE DRILLED IN ANCHOR AND/OR FIN. ROUGH CARPENTRY: SHEATHING SHALL BE APA-RATED STRUCTURAL USE FANELS CONFORMING TO PRODUC STANDARD FS 1F OR FLYYOOD. FLOOR SHADARD FS 1F OR FLYYODD. FLOOR SHADARD FS 1F OR FLYYODD. FLOOR ANDARD FS 1F OR REINFORCEMENT AND THE DRILLED IN ANCHOR AND/OR FINIT THE ARCHITES SHALL AND CLADINGS. NOTES BELOW APPLY TO THE DESIGN-BUILD SYSTEM DESIGN SHITH THE ARCHITES SHALL AND CLA	HILTI HIT HY150 MAX (ICC #ESR-1967) OR SIMPSON SET (ICC #ESR-1772). ALTERNATE PRODUCTS SHALL CARRY AN ICC APPROVAL THAT IS BASED ON TESTING IN ACCORDANCE WITH ICC ACCEPTANCE CRITERIA AC58 AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE
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R. <u>METAL DECK:</u>

MANUFACTURER'S RECOMMENDATIONS AND PUBLISHED ICC REPORT

- STRUCTURAL CONCRETE FILL OCCURS, U.O.N.
- 5. DECK SHALL BE CONTINUOUS OVER THREE SPANS WHEREVER POSSIBLE.
- AT ENDS IS 2". 6. WHERE 3/4" DIAMETER SHEAR STUDS ARE TO BE WELDED TO SUPPORTS, 18
- ACCESSORY ITEMS SUCH AS CLOSURES, CLIPS, ETC.

SAME SPAN.

S. SHEAR CONNECTORS (WELDED STUDS):

- 2. SHEAR CONNECTORS SHALL COMPLY WITH ICC #ER-2614, NELSON SHEAR TESTING SHALL CONFORM TO AWS D1.1.
- 3. SHEAR STUDS SHALL HAVE NOT LESS THAN 3/4 INCH OF CONCRETE COVER.
- ROW SHALL BE 6X STUD DIAMETER.
- CLOSE TO WEB AS POSSIBLE.
- 8. WHEN WELDING THROUGH TWO THICKNESSES OF METAL DECK OR WHERE A LAP ALLOW PROPER SEATING OF STUD ON BEAM.

COLD-FORMED STEEL FRAMING: 1. COLD-FORMED STEEL FRAMING SHALL BE FROM A STEEL STUD

- TO ICC #ER-4943P. DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS.
- 4. COLD-FORMED STEEL FRAMING SHALL BE GALVANIZED (G60), AND CONFORM TO ASTM A 653 AS FOLLO STUDS - 43 MILS (18GA) & STUDS - 54 MILS (16GA) 8 TRACK - ALL GAUGES CLIP ANGLES - ALL GAUGE
- 5. PROVIDE ACCESSORIES INCLUDING, BUT NOT NECESSARILY LIMITED TO,
- FLANGES, U.O.N.
- AGAINST THE INSIDE TRACK WEB, U.O.N.
- THE PLANS.
- MINIMUM SPACING MINIMUM EDGE DISTANCE
- OR EQUAL. MINIMUM SPACING MINIMUM EDGE DIST. (W-DECK)
- MINIMUM EDGE DIST. (B-DECK) THICKNESS.
- MINIMUM SPACING MINIMUM EDGE DISTANCE
- U.O.N. PER ICC #ER-4943P, OR EQUAL. MINIMUM SPACING
- MINIMUM EDGE DISTANCE SHEATHING DOES NOT OCCUR.

U. COLD-FORMED STEEL FRAMING, DESIGN-BUILD:

- BUILD FRAMING ONLY.
- BUILDING CODE.
- STRUCTURE. 4. CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL DIMENSIONS WITH
- FRAMING.

Date: May 05, 2009 — 4:16pm SCALE: 1/12 OPTR:Alex

1. METAL DECK SHALL BE OF THE TYPE AND GAUGE AS INDICATED ON THE DRAWINGS AND SHALL BE INSTALLED IN ACCORDANCE WITH THE

2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS. 3. METAL FLOOR AND ROOF DECK SHALL BE FACTORY VENTED WHERE

4. METAL DECK AND ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS CONFORMING TO ASTM A 653, WITH COATING DESIGNATION 660.

SHORE DECK IF RECOMMENDED BY THE MANUFACTURER. MINIMUM BEARING

GAUGE (OR THICKER) DECKING SHALL NOT BE LAPPED. 7. CONTRACTOR SHALL CUT DECK PER STRUCTURAL DETAILS AT ALL OPENINGS, COLUMNS, AND REQUIRED PENETRATIONS AND SHALL SUPPLY NECESSARY

8. HANGERS SUPPORTED BY METAL DECKING ONLY OR METAL DECKING WITH INSULATING FILL SHALL BE ATTACHED TO STEEL BARS, 3/8" ROUND X 12" OR 1/8" X 12" FLAT, PLACED PERPENDICULAR TO FLUTES. ONLY LIGHT DUCTWORK (12" X 16" MAX.), PIPING (1-1/2" ROUND MAX.), OR CEILING MAY BE HUNG FROM SUCH INSTALLATIONS. MAXIMUM WEIGHT PER HANGER SHALL NOT EXCEED 75 LBS. HANGERS MUST BE AT LEAST TWO FLUTES APART ON THE

9. HANGERS SUPPORTED BY METAL DECK WITH STRUCTURAL CONCRETE FILL SHALL BE INSTALLED USING ICC APPROVED ANCHORAGE SYSTEMS. SUCH HANGERS SHALL BE USED TO SUPPORT DUCTWORK (15" X 16" MAX.), PIPING (4" ROUND MAX.), OR CEILINGS. MAXIMUM WEIGHT PER HANGER SHALL NOT EXCEED 250 LBS. HANGERS MUST BE AT LEAST TWO FLUTES APART ON THE SAME DECK SPAN. LARGER DUCTWORK AND PIPING SHALL BE SUPPORTED BY STRUCTURAL BEAMS OR COLUMNS.

1. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.

CONNECTOR STUDS, OR EQUAL. SHEAR CONNECTORS SHALL BE MADE FROM COLD ROLLED STEEL CONFORMING TO ASTM A 108, GRADES 1015-1020 WITH A MINIMUM TENSILE STRENGTH 60,000 psi. STUD WELDING INSPECTING AND

4. STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8" DIAMETER AND UNDER. AND 3/16" FOR OVER 5/8" DIAMETER. WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE WELDING INSPECTOR.

5. NUMBER OF 3/4" DIA. HEADED STUD SHEAR CONNECTORS ARE SHOWN ON FRAMING PLANS. SPACE SHEAR CONNECTORS EQUALLY ALONG LENGTH OF BEAM. IF DECK FLUTES PREVENT EQUAL SPACING, STUDS SHALL BE SPACED CLOSER NEAR ENDS OF BEAMS OR STUDS MAY BE SPACED TWO PER FLUTE NEAR ENDS IF TOTAL NUMBER EXCEEDS NUMBER OF FLUTES. A SINGLE NUMBER INDICATES UNIFORM SPACING FROM END TO END, MULTIPLE NUMBERS INDICATE NUMBER OF STUDS TO BE SPACED UNIFORMLY BETWEEN BEAM REACTION POINTS AND/OR ENDS OF BEAM. MINIMUM SPACING IN A SINGLE

6. INSTALL STUDS IN SINGLE ROW DIRECTLY OVER BEAM WEBS. WHERE OBSTRUCTIONS PREVENT PLACEMENT DIRECTLY OVER WEB PLACE STUDS

7. WHERE SHEAR STUDS AND DECK WELDING LOCATION COINCIDE, EACH SHEAR STUD WELDED THROUGH THE DECK MAY REPLACE A DECK WELD.

JOINT IS REQUIRED, BURN A 3/4" DIAMETER HOLE THROUGH THE DECK TO 9. WHEN DECK IS PARALLEL TO DIRECTION OF BEAM SPAN, DECK POSITION

SHALL BE SUCH THAT A VALLEY OCCURS OVER BEAM CENTERLINE OR DECK MUST BE SEPARATED AT BEAM CENTERLINE TO PERMIT SHEAR STUD ATTACHMENT DIRECTLY TO BEAM FLANGE.

MANUFACTURERS ASSOCIATION (SSMA) APPROVED SUPPLIER, AND CONFORM

2. COLD-FORMED STEEL FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AISI SPECIFICATION FOR

3. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.

DWS:	
LIGHTER	GRADE 33
E HEAVIER	GRADE 50
	GRADE 33
ES	GRADE 33

TRACKS, CLIPS, WEB STIFFENERS, ANCHORS, FASTENING DEVICES, RESILIENT CLIPS AND OTHER ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION, AND AS RECOMMENDED BY THE MANUFACTURER FOR THE STEEL MEMBERS USED. STUD MEMBERS SHALL HAVE PUNCHED WEBS.

6. TOP AND BOTTOM TRACKS SHALL BE 54 MILS (16 GAUGE) WITH 1-1/4 INCH

7. STUDS SHALL BE INSTALLED WITH THEIR BEARING ENDS POSITIONED FLUSH

8. FULL HEIGHT DOUBLE STUDS SHALL BE PROVIDED AT THE ENDS OF PARTITIONS, AT ALL WALL OPENINGS, AND AT OTHER LOCATIONS SHOWN ON

9. SHOTPINS SHOWN FOR CONNECTIONS TO CONCRETE, CMU OR CONCRETE TOPPING SHALL BE HILTI X-U 32 P8, ICC #ESR-2269, OR EQUAL. 4 INCHES 3 INCHES

10. SHOTPINS SHOWN FOR CONNECTIONS TO UNDER SIDE OF METAL DECK WITH CONCRETE TOPPINGS ABOVE SHALL BE HILTI HILTI X-U 32 P8, ICC #ESR-2269, 1-1/2 INCHES OC

7/8 INCH 11. SHOTPINS SHOWN FOR CONNECTIONS TO STRUCTURAL STEEL FRAMING OR DECK CLOSURE PLATE SHALL BE HILTI X-U 16 P8, ICC #ESR-2269, OR EQUAL. FASTENER LENGTH SHALL PENETRATE THROUGH THE STRUCTURAL STEEL

1-1/8 INCH

1-1/2 INCHES OC 1/2 INCH

12. FLOOR AND/OR CEILING JOISTS SHALL HAVE THE SAME ON-CENTER SPACING AS THE WALL STUDS, AND JOISTS SHALL BE ALIGNED DIRECTLY OVER STUDS SO AS TO AVOID BENDING IN THE WALL TOP TRACK.

13. FASTENINGS OF COMPONENTS SHALL BE WITH #10 SELF-DRILLING SCREWS. 1-1/2 INCHES OC 1/2 INCH

14. SHEATHING SHALL BE ATTACHED TO BOTH FACES OF METAL WALL STUDS THROUGHOUT THEIR LENGTH, U.O.N. PROVIDE LATERAL BRACING WHERE

1. COLD-FORMED STEEL FRAMING IS DESIGN-BUILD UNLESS SPECIFICALLY DESIGNED AND DETAILED ON DRAWINGS. NOTES BELOW APPLY TO DESIGN-

2. DESIGN COLD-FORMED STEEL FRAMING INCLUDING FRAMING MEMBERS AND CONNECTIONS (INCLUDING THOSE TO BUILDING STRUCTURE) AND PROVIDE FOR LATERAL RESTRAINT COMPLYING WITH CONTRACT DOCUMENTS AND THE

3. CALCULATIONS SHALL CLEARLY IDENTIFY LOADS IMPOSED ON THE BUILDING

THE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY FIELD CONDITIONS NOT COVERED BY EITHER ARCHITECTURAL OR STRUCTURAL PLANS PRIOR TO CONSTRUCTION OF

5. AT CONNECTIONS TO STRUCTURE, PROVIDE STABILIZING ELEMENTS SUCH AS BRACES, STIFFENER PLATES, ETC., SO AS TO NOT IMPOSE ECCENTRIC LOADING, TWISTING, OR WARPING TO STRUCTURAL MEMBERS. PROVIDE MATERIAL AND INSTALL STABILIZING ELEMENTS.

6. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.

Varning: It is a violation of the law for any person, unless acting under the direction of a licensed architect, to alter an item in any way. If an item in any way. If an item in this document is altered, the altering architect, if other than the architect of record, shall affixto the item his seal and the notation "altered by" follows by his signiture and the date of such alteration, and the specific description of the alteration of the alteration of a licensed architect, if other than the architect of record, shall affixto the item his seal and the notation "altered by" follows by his signiture and the date of such alteration, and the specific description of the alteration of the alteration of a licensed architect, if other than the architect of record, shall affixto the item his seal and the notation "altered by" follows by his signiture and the date of such alteration, and the specific description of the alteration of the alteration of the law for any person, unless acting under the date of such alteration, and the specific description of the alteration of the alteration of the alteration of the alteration of a licensed architect, if other than the architect of record, shall affixto the item his seal and the notation "altered by" follows by his signiture and the date of such alteration, and the specific description of the alteration of the alternative medicine of the al

30. FINISH SURFACES TO THE FOLLOWING TOLERANCES. MEASURED WITHIN 24 HOURS ACCORDING TO ASTM E 1155/E 155M FOR A RANDOMLY TRAFFICKED FLOOR SURFACE. SPECIFIED OVERALL VALUES OF FLATNESS, F (F) 35; AND LEVELNESS, F (L) 25; WITH MINIMUM LOCAL VALUES OF FLATNESS, F (F) 24; AND LEVELNESS, F (L) 17; FOR SLAB-ON-GRADE.

L. REINFORCED CONCRETE - ELEVATED SLABS AND BEAMS:

- 1. REINFORCED CONCRETE SLABS AND BEAMS SHALL BE CAMBERED AS INDICATED ON THE DRAWINGS OR 1/8" FOR EVERY 10 FEET OF SPAN UP TO 18 FEET, AND 1/4" FOR EVERY 10 FEET OF SPAN OVER 18 FEET, CANTILEVERS SHALL BE CAMBERED DOUBLE THESE AMOUNTS. THE SLAB OR BEAM THICKNESS SHALL BE MAINTAINED THROUGH OUT THE CAMBERED AREA. SUBMIT DETAILS OF CONCRETE PROFILE FOR REVIEW WHERE THERE A VARIATION IN CONCRETE OUTLINE FROM THAT SHOWN ON THE DRAWINGS RESULTS FROM CAMBERING
- 2. FINISH SURFACES TO THE FOLLOWING TOLERANCES, MEASURED WITHIN 24 HOURS ACCORDING TO ASTM E 1155/E 1155M FOR A RANDOMLY TRAFFICKED FLOOR SURFACE. SPECIFIED OVERALL VALUES OF FLATNESS, F (F) 30; AND LEVELNESS, F (L) 20; WITH MINIMUM LOCAL VALUES OF FLATNESS, F (F) 24; AND LEVELNESS, F (L) 15; FOR SUSPENDED SLABS.
- 3. OPENINGS WITHIN 4'-O" OF A COLUMN NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. 4. TEMPERATURE REINFORCEMENT SHALL BE INSTALLED AS BOTTOM STEEL IN EACH DIRECTION IN TWO-WAY SLABS. INSTALL THE FOLLOWING MINIMUM
- TEMPERATURE REINFORCEMENT U.O.N .: TEMPERATURE <u>SLAB THICKNESS</u> REINFORCEMENT 6" OR LESS #4 @ 18" TO 7" #4 @ 16" TO 8" #4 @ 14"
- 5. CHAIRS FOR REINFORCEMENT IN EXPOSED SOFFITS OR OTHER AREAS EXPOSED TO WEATHER AND VIEW SHALL BE MANUFACTURED OF NONCORROSIVE MATERIAL.
- 6. WHERE SLAB OPENINGS OCCUR AND ARE NOT OTHERWISE DETAILED ON THE STRUCTURAL DRAWINGS, REINFORCEMENT SHALL BE SPREAD ON EACH SIDE OF THE OPENING WITH THE SAME TOTAL NUMBER OF BARS PLUS ONE PASSING THE OPENING ADDITIONALLY, TOP AND BOTTOM EDGE BARS SHALL BE INSTALLED AS INDICATED. OPENINGS IN EXCESS OF 18" IN DIMENSION THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED IN WRITING BY THE ENGINEER PRIOR TO INSTALLATION.
- 7. ADDITIONAL REBAR MATS SHALL BE INSTALLED OVER AREAS OF CONGESTED CONDUIT AS INDICATED IN THE STRUCTURAL DRAWINGS OR AS DIRECTED BY THE ENGINEER.
- 8. WHERE COLUMN CONCRETE STRENGTH EXCEEDS THAT OF THE SLAB BY MORE THAN 40%, CONCRETE OF SAME STRENGTH AS COLUMNS SHALL BE PLACED IN THE SLAB IN THE REGION OF THE COLUMN, PROJECTING 2'-O" MINIMUM OUTSIDE OF THE COLUMN. SURROUNDING SLAB CONCRETE SHALL BE PLACED WHILE THE HIGHER STRENGTH CONCRETE IS STILL PLASTIC AND THE TWO CONCRETES SHALL BE INTEGRATED BY VIBRATION AT THEIR INTERFACE.
- 9. CONCRETE FINISH REQUIREMENTS AND TREATMENTS SHALL BE APPLIED AS INDICATED ON THE ARCHITECTURAL DRAWINGS
- 10. WHERE APPEARANCE IS OF CONCERN, STAPLES AT THE SLAB SOFFIT SHALL BE GROUND OFF AND IMMEDIATELY PAINTED WITH A PERMANENT SEALER AS APPROVED BY THE ARCHITECT.

M. <u>STRUCTURAL STEEL</u>

- STRUCTURAL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 22 OF THE BUILDING CODE, AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- 2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS. 3. STRUCTURAL STEEL STRENGTHS AND GRADES SHALL BE AS FOLLOWS, U.O.N.

		· · · · · · · · · · · · · · · · · · ·
	YIELD	ASTM
DESCRIPTION	<u>Fy,ksi</u>	GRADE
WF AND WT SHAPES, U.O.N.	50 ksi	A992, GR 50
ANGLES, CHANNELS & OTHER SHAPES	36 ksi	A36
HSS SECTIONS	46 ksi	A500, GR B
STRUCTURAL PIPE SECTIONS	35 ksi	A53, GR B
BASE PLATES, CONNECTION PLATES		
& MISC., U.O.N.	36 ksi	A36
CONNECTION PLATES WHERE NOTED AS GR.50	50 ksi	A572, GR 50

- 4. HOLLOW STRUCTURAL STEEL (HSS) MEMBERS SHALL BE SEAL WELDED IN DRY CONDITION IN THE SHOP. PROVIDE WEEP HOLES AT THE LOW END OF ALL HOLLOW MEMBERS IN EXTERIOR CONDITIONS, AND SEAL WELD AROUND ALL MATING SURFACES IN EXTERIOR CONDITIONS WHETHER COVERED OR OPEN. CONCEAL WELD SEAM FROM VIEW WHERE PRACTICAL.
- 5. ANCHOR RODS SHALL CONFORM TO ASTM F 1554, GRADE 36, UNLESS OTHERWISE NOTED. NUTS FOR ANCHOR RODS SHALL CONFORM TO ASTM A 563, GRADE A HEX (HEAVY HEX WHERE ANCHOR ROD DIAMETER IS GREATER THAN 1 1/2")
- 6. MAIN MEMBERS SHALL HAVE HIGH STRENGTH BOLTS CONFORMING TO AISC SPECS FOR ASTM A 325N BOLTS, U.O.N. OTHER BOLTS SHALL CONFORM TO ASTM A 307. NUTS FOR HIGH STRENGTH BOLTS SHALL BE HEAVY HEX GRADE C CONFORMING TO ASTM A 563.
- 7. EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. ZINC COATING SHALL CONFORM TO ASTM A 123 (G60, U.O.N.).
- 8. TIGHTEN ASTM A 325N BOLTS TO "SNUG-TIGHT" CONDITION PER AISC SPECIFICATION FOR STRUCTURAL JOINTS. TEST ASTM A 325SC BOLTS WITH A CALIBRATED WRENCH UNLESS LOAD INDICATOR BOLTS ARE USED
- 9. WELDING DONE AFTER GALVANIZING SHALL BE PROTECTED WITH TWO COATS OF "GALVANIZED", "GALVALOY", OR EQUAL. 10. APPLY SPRAYED FIREPROOFING OVER STRUCTURAL STEEL WITH MONOKOTE MK6/CBF OF MK6/ED AS MANUFACTURED BY W.R. GRACE AND COMPANY, PER ICC #ER-4607. HOURLY FIRE RESISTANCE SHALL BE DETERMINED USING

TABLE 6-A OF THE CBC AND BUILDING TYPES OF CONSTRUCTION AS

INDICATED ON THE ARCHITECTURAL DRAWINGS.

N. STEEL STAIRS:

- . MEMBER SIZES SHOWN ARE MINIMUM SIZES TO BE USED FOR CONSTRUCTION. MEMBER SIZES SHALL BE IN THE SAME NOMINAL SHAPE AND DIMENSION INDICATED HEREIN.
- 2. CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS. CONTRACTOR TO NOTIFY ARCHITECT OF ANY FIELD CONDITIONS NOT COVERED BY EITHER ARCHITECTURAL OR STRUCTURAL PLANS PRIOR TO STAIR FABRICATION.
- 3. CONTRACTOR SHALL PROVIDE CONNECTIONS, STIFFENERS, INTERMEDIATE BEAMS, HANGERS, ETC., NECESSARY FOR SUPPORT OF THE STAIRS. PROVIDE STABILIZING ELEMENTS SUCH AS BRACES, STIFFENER PLATES, ETC., SO AS TO NOT IMPOSE ECCENTRIC LOADING, TWISTING, OR WARPING TO STRUCTURAL MEMBERS. PROVIDE MATERIAL AND INSTALL STABILIZING ELEMENTS AT NO ADDITIONAL COST TO OWNER.

O. STEEL STAIRS, DESIGN-BUILD:

- 1. STEEL STAIRS ARE DESIGN-BUILD UNLESS SPECIFICALLY DESIGNED AND DETAILED ON DRAWINGS. NOTES BELOW APPLY TO DESIGN-BUILD STEEL STAIRS ONLY.
- 2. DESIGN STAIRS INCLUDING FRAMING MEMBERS, CONNECTIONS (INCLUDING THOSE TO BUILDING STRUCTURE), CHECKERED PLATES, STEPS, HANDRAILS ETC., AND PROVIDE FOR LATERAL RESTRAINT COMPLYING WITH CONTRACT DOCUMENTS AND THE BUILDING CODE.
- 3. CALCULATIONS SHALL CLEARLY IDENTIFY LOADS IMPOSED ON THE BUILDING STRUCTURE.
- 4. CONTRACTOR SHALL VERIFY VERTICAL AND HORIZONTAL DIMENSIONS WITH THE ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS. CONTRACTOR TO NOTIFY ARCHITECT OF ANY FIELD CONDITIONS NOT COVERED BY EITHER ARCHITECTURAL OR STRUCTURAL PLANS PRIOR TO STAIR FABRICATION.
- 5. AT CONNECTIONS TO STRUCTURE, PROVIDE STABILIZING ELEMENTS SUCH AS BRACES, STIFFENER PLATES, ETC., SO AS TO NOT IMPOSE ECCENTRIC LOADING, TWISTING, OR WARPING TO STRUCTURAL MEMBERS. PROVIDE MATERIAL AND INSTALL STABILIZING ELEMENTS.

P. WELDING:

- 1. WELDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY (AWS) D1.1. 2. WELDING OF METAL DECK AND LIGHT GAUGE METAL FRAMING SHALL BE DONE
- BY CERTIFIED LIGHT GAUGE WELDERS IN ACCORDANCE WITH AWS SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES, AWS D1.3. 3. WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS
- 4. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
- 5. WELDING ELECTRODE FOR THE SHIELDED METAL-ARC WELDING (S.M.A.W.) PROCESS AND WELDING ELECTRODE SHALL CONFORM TO AWS A5.1 SPECIFICATION FOR CARBON STEEL ELECTRODES FOR SHIELDED METAL ARC WELDING."
- 6. ELECTRODES FILLER MATERIAL SHALL BE A MINIMUM OF ETOXX U.O.N., EXCEPT EGOXX MAY BE USED FOR WELDING OF METAL DECK AND LIGHT GAUGE FRAMING
- 7. WELDS SHALL HAVE A WELD CONTROLLED SEQUENCE AND TECHNIQUE IN ORDER TO MINIMIZE SHRINKAGE STRESSES AND DISTORTION.

Q. DRYPACK / NON-SHRINK GROUT:

- 1. NON-SHRINK GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 6,000 psi IN ACCORDANCE WITH ASTM C 109.
- 2. NON-SHRINK GROUT SHALL BE INSTALLED UNDER A COLUMN BASE PLATE AFTER THE COLUMN HAS BEEN PLUMBED AND PRIOR TO PLACING CONCRETE FILL ON THE STRUCTURE.
- JOBSITE REINFORCEMENT. SLABS.

14. TYPE 1 AND TYPE 2 INTERNALLY-THREADED REINFORCING COUPLERS SHALL BE LENTON COUPLERS (ICC #ER-3967). ALTERNATE PRODUCTS SHALL CARRY AN ICC APPROVAL AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE JOBSITE.

15. INTERNALLY-THREADED BAR TERMINATORS SHALL BE LENTON TERMINATORS (ICC #ER-3967). ALTERNATE PRODUCTS SHALL CARRY AN ICC APPROVAL AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE

16. AN ALLOWANCE OF 5,000 POUNDS OF REINFORCEMENT SHALL BE PROVIDED FOR PLACEMENT IN STRUCTURAL SLABS AS DIRECTED BY THE ENGINEER DURING FIELD OBSERVATION.

MINIMUM SPECIFICATIONS FOR WELDING OF REINFORCING STEEL:

1. PRIOR TO WELDING, THE CHEMICAL ANALYSIS AND THE CARBON EQUIVALENT OF STEEL (C.E.) SHALL BE DETERMINED. THE CARBON EQUIVALENT OF REINFORCING STEEL OR SPLICE MATERIAL SHALL BE CALCULATED FROM ITS CHEMICAL COMPOSITION AND SHALL BE LESS THAN 0.55.

2. MILL REPORTS STATING THE CHEMICAL COMPOSITION AND THE CARBON EQUIVALENT DETERMINED BY HEAT ANALYSIS BY THE MANUFACTURER SHALL BE FURNISHED FOR REVIEW BY THE REGISTERED SPECIAL INSPECTOR. STEEL DELIVERED TO THE JOB SITE SHALL BE CLEARLY IDENTIFIED SO AGREEMENT WITH THE HEAT NUMBER(S) OF THE MILL REPORT(S) CAN BE VERIFIED.

3. JOINT WELDING PROCEDURES FOR REINFORCING BAR SPLICES, BAR CONNECTIONS, AND INSERT CONNECTIONS THAT ARE TO BE EMPLOYED SHALL BE ESTABLISHED IN A PROCEDURE SPECIFICATION AND SHALL BE QUALIFIED PRIOR TO USE BY TESTS AS PRESCRIBED IN ANS D1.4: A. WELDING PROCEDURES FOR FILLET WELDS WHICH CONFORM TO THE APPLICABLE PROVISIONS OF AWS D1.4 SHALL BE DEEMED AS

PREQUALIFIED B. THE BUILDING OFFICIAL MAY ACCEPT EVIDENCE OF PREVIOUS QUALIFICATION OF THE JOINT WELDING PROCEDURE.

4. PROCEDURE QUALIFICATION TESTS SHALL BE WITNESSED AND TESTED BY AN APPROVED TESTING AGENCY. 5. THE RESULTS OF THE PROCEDURE QUALIFICATION TESTS AND/OR THE

PROCEDURE SPECIFICATION SHALL BE SUBMITTED TO AND APPROVED BY THE DESIGN ENGINEER AND THE BUILDING INSPECTION DEPARTMENT. APPROVED PROCEDURE SPECIFICATIONS SHALL BE AVAILABLE FOR REVIEW BY THE REGISTERED SPECIAL INSPECTOR AT THE SITE WHERE WELDING IS PERFORMED.

SHEAR REINFORCEMENT SYSTEMS:

1. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS. 2. STUD STRIP REINFORCEMENT SHALL BE DECON STUDRAILS (ICC #ESR-2494).

ALTERNATE PRODUCTS SHALL CARRY AN ICC APPROVAL AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE JOBSITE 3. STUD STRIP REINFORCEMENT SHALL BE SECURED IN PLACE BY NAILING TO THE

FORMWORK THROUGH PREFORMED HOLES IN THE STRIP. 4. CONCRETE COVER AND CLEARANCES SHALL BE MAINTAINED FOR SHEAR REINFORCEMENT SYSTEMS AS REQUIRED FOR CONVENTIONAL BAR

K. REINFORCED CONCRETE (GENERAL):

1. CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE BUILDING CODE AND TO THE PROVISIONS OF ACI 318, LATEST EDITION

2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.

3. READY MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C 94. 4. CEMENT SHALL CONFORM TO ASTM C 150 TYPE I OR II, LOW ALKALI.

COORDINATE WITH ARCHITECT FOR ADDITIONAL REQUIREMENTS FOR EXPOSED ARCHITECTURAL CONCRETE. 5. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C

6. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL BE EXPANDED SHALE TYPE

AND CONFORM TO ASTM C 330. 7. LIGHT-WEIGHT CONCRETE SHALL HAVE A MAXIMUM DRY DENSITY OF 115 pcf.

NORMAL WEIGHT CONCRETE SHALL BE 150 pcf. 8. CONCRETE MIXES SHALL BE DESIGNED BY A QUALIFIED TESTING LABORATORY AND APPROVED BY THE ENGINEER. MIX DESIGN METHODS (TEST HISTORY OR TRIAL BATCH METHOD) IN ACCORDANCE WITH ACI 318, SECTION 5.3 SHALL BE USED TO PROPORTION CONCRETE.

9. MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS, MAXIMUM SLUMPS, AND MAXIMUM WATER/CEMENT RATIOS SHALL BE AS FOLLOWS: MIN 28

ESCRIPTION OOTINGS RADE BEAMS LAB ON GRADE ONC. COLUMNS LEVATED SLABS AND BEAMS HEAR WALLS ASEMENT WALLS IGHT WEIGHT FILL ON METAL DECK ORMAL WEIGHT FILL ON METAL DECK	MIN 28 DAY F'C 4.0 KSI 4.0 KSI 3.5 KSI 5.0 KSI 5.0 KSI 5.0 KSI 3.5 KSI 3.5 KSI	<u>SLUMP</u> 4" +/- 1" 4" +/- 1"	MAX.M/C RATIO 0.50 0.50 0.45 0.45 0.45 0.45 0.45 0.45
ORMAL WEIGHT FILL ON METAL DECK THER CONCRETE	3.5 KSI 3.5 KSI	4" +/- 1" 4" +/- 1"	0.48 0.50

10. ADMIXTURES SHALL BE APPROVED IN ADVANCE.

11. CONCRETE IN AREAS OF SHEARWALLS, COLUMNS, BEAMS OR SLABS WHERE REBAR IS CONGESTED OR DUCTS CREATE PLACING DIFFICULTIES, SHALL BE SELF CONSOLIDATING CONCRETE (SCC) OR SHALL INCLUDE A PLASTICIZER ADMIXTURE AND/OR SMALLER MAXIMUM AGGREGATE SIZE, WITH APPROPRIATE AIR AND CEMENT CONTENT ADJUSTMENTS.

12. SLUMPS INDICATED ARE PRIOR TO PLASTICIZER ADDITIVES. 13. DRYING SHRINKAGE OF CONCRETE IN WALLS, ELEVATED SLABS, BEAMS AND GIRDERS SHALL BE LIMITED TO 0.05 PERCENT AS VERIFIED BY ASTM C157.

14. CONCRETE ADMIXTURES CONTAINING CHLORIDE OR CHLORIDE SALTS SHALL NOT BE USED EXCEPT WHERE APPROVED IN WRITING BY THE ENGINEER.

15. FLYASH SHALL BE LIMITED TO NO MORE THAN THE FOLLOWING PERCENTAGES OF THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS IN THE CONCRETE, U.O.N. SUSPENDED SLABS, BEAMS AND GIRDERS 15%

COLUMNS AND WALLS 20% FOUNDATIONS 20% SLABS ON GRADE 20% 16. WATER MAY BE ADDED ON SITE TO OBTAIN SPECIFIED SLUMPS PROVIDED

THAT IT IS ADDED WITHIN ONE HOUR OF BATCHING AND SITE-ADDED WATER IS SPECIFIED ON THE BATCH REPORT. SITE-ADDED WATER SHALL NOT COMPROMISE THE STRENGTH OR SLUMP OF THE CONCRETE.

17. CONCRETE SHALL NOT BE PLACED BEYOND 1-1/2 HOURS FOLLOWING DAICHING

18. PROJECTING CORNERS OF SLABS, BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 1/2" CHAMFER U.O.N. 19. CONSTRUCTION OR CONTROL JOINTS IN SLABS ON GRADE SHALL BE

PROVIDED AS INDICATED. THE LOCATIONS OF JOINTS NOT SPECIFICALLY INDICATED SHALL BE REVIEWED BY THE ENGINEER AND APPROVED BY THE ARCHITECT. JOINTS SHALL ALIGN WITH RE-ENTRANT CORNERS OF THE SLAB OR TOPPING.

20. CONSTRUCTION JOINTS IN STRUCTURAL MEMBERS THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION. LONGITUDINAL REINFORCEMENT SHALL CONTINUE UNINTERRUPTED THROUGH CONSTRUCTION JOINTS. KEYWAYS SHALL BE PROVIDED PERPENDICULAR TO THE DIRECTION OF LOAD IN CONSTRUCTION JOINTS

1. WHERE CONCRETE IS PLACED AGAINST EXISTING CONCRETE SURFACES, THE SLAB TO WALL EXISTING CONCRETE SURFACES SHALL BE THOROUGHLY CLEANED AND ROUGHENED TO A MINIMUM AMPLITUDE OF 1/2-INCH.

22. CONDUIT, PIPES OR DUCTS SHALL NOT BE PLACED IN CONCRETE COLUMNS. WALLS, SLABS OR CONCRETE TOPPING FILLS UNLESS SPECIFICALLY INDICATED ON THE STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE ENGINEER. SLEEVES FOR OPENINGS IN CONCRETE SHALL BE INSTALLED BEFORE PLACING. REINFORCING WHICH MAY CONFLICT SHALL NOT BE CUT UNLESS APPROVED IN WRITING BY THE ENGINEER.

23. WHERE PERMITTED, CONDUITS AND SLEEVES WITHIN SLABS AND WALLS SHALL BE PLACED WITHIN THE MIDDLE THIRD OF THE THICKNESS OF THE SLAB OR WALL. THE MAXIMUM SIZE OF A CONDUIT IS 1/4 OF THE SLAB OR WALL THICKNESS. CONDUITS OR SLEEVES SHALL BE SPACED AT LEAST 3 TIMES THEIR DIAMETER CLEAR BETWEEN.

24. STAY-IN-PLACE FORMS SHALL HAVE MATERIAL STRENGTH AND STIFFNESS PROPERTIES SUFFICIENT FOR THE SUPPORT OF WET CONCRETE DURING CURING.

25. FORMWORK FOR COLUMNS SHALL NOT BE REMOVED UNTIL THE COLUMN CONCRETE HAS REACHED A MINIMUM STRENGTH OF 1500 PSI.

26. FORMWORK FOR SLABS SHALL NOT BE REMOVED UNTIL SLAB CONCRETE HAS REACHED A MINIMUM STRENGTH OF 3750 PSI. IMMEDIATELY RESHORE ALL SLABS UNTIL CONCRETE HAS REACHED DESIGN STRENGTH. RESHORING SHALL BE DESIGNED AND FIELD REVIEWED BY A CALIFORNIA REGISTERED CIVIL ENGINEER.

27. THE CONCRETE SLAB-ON-GRADE AND TOPPING FILL THICKNESS SHOWN IS THE MINIMUM REQUIRED THICKNESS. SLAB-ON-GREADE FLOORS SHALL BE MONITORED BY TRANSIT LEVEL OR LASER DURING PLACEMENT TO MAINTAIN LEVEL FLOOR.

28. CONCRETE COLUMNS SHALL ACHIEVE A MINIMUM OF 75 PERCENT OF THE DESIGN STRENGTH INDICATED PRIOR TO POURING ELEVATED CONCRETE

29. CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER ITS PLACEMENT. APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING.

E. <u>GENERAL:</u>

SPECIFIC NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.

- 2. WHERE NO DETAILS ARE SHOWN OR NOTED IN ANY PART OF THE WORK THE DETAILS FOR OTHER SIMILAR WORK SHALL APPLY
- 3. DETAILS IDENTIFIED AS TYPICAL, SHALL APPLY IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED.
- 4. THE STRUCTURAL DRAWINGS SHALL NOT BE SCALED. COORDINATE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.
- 5. COORDINATE ELEVATIONS, SLOPES AND DRAINAGE REQUIREMENTS WITH THE ARCHITECTURAL DRAWINGS.
- 6. STANDARDS REFERENCED ON THE STRUCTURAL DRAWINGS REFER TO THE EDITION APPLICABLE UNDER THE CURRENT BUILDING CODE.
- 7. THE RESPONSIBILITY FOR THE REVIEW AND COORDINATION OF DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF RELATED CONSTRUCTION SHALL BEAR ON THE CONTRACTOR. DISCREPANCIES THAT EXIST SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER, PRIOR TO START OF RELATED CONSTRUCTION.
- 8. WORK PERFORMED IN CONFLICT WITH THE STRUCTURAL DRAWINGS OR APPLICABLE BUILDING CODE REQUIREMENTS SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- 9. DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS SHALL BE VERIFIED BEFORE STARTING RELATED WORK AND THE ENGINEER NOTIFIED OF DISCREPANCIES IN A TIMELY MANNER. 10. SITE CONDITIONS THAT ARE NOT REFLECTED ON THE STRUCTURAL DRAWINGS
- OR THAT DEVIATE FROM THE MAXIMUM OR MINIMUM DIMENSIONS INDICATED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER. SUCH CONDITIONS MAY INCLUDE CONFLICT IN GRADES. ADVERSE SOIL CONDITIONS, GROUND WATER PRESENT, DEEPENED FOOTINGS, UNCOVERED AND UNEXPECTED UTILITY LINES, ETC.
- 11. MATERIALS AND WORKMANSHIP SHALL CONFORM TO REQUIREMENTS OF APPLICABLE REGULATIONS AND THE BUILDING CODE AS AMENDED AND ADOPTED BY THE BUILDING OFFICIAL. 12. LOADS TO THE BUILDING EXCEEDING THE LOADS INDICATED ON THE PLANS.

OR ANY LOADS EXCEEDING 400 POUNDS THAT ARE NOT INDICATED ON THE

STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE ENGINEER. F. TEMPORARY WORK AND SITE SAFETY:

- THE STRUCTURAL DRAWINGS SHOW THE REQUIREMENTS FOR THE COMPLETED STRUCTURE ONLY. TEMPORARY WORKS REQUIRED TO COMPLETE THE CONSTRUCTION PROCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OR FIELD VERIFICATION OF TEMPORARY AND ANCILLARY WORK.
- 2. THE RESPONSIBILITY FOR SAFETY IN AND AROUND THE JOBSITE SHALL BEAR ON THE CONTRACTOR. PROPER AND SAFE METHODS OF CONSTRUCTION SHALL BE EMPLOYED AT ALL TIMES INCLUDING THE STABILIZING OF INCOMPLETE STRUCTURES, FORMWORK, SHORING, RESHORING, FALSEWORK PLATFORMS, SCAFFOLDING, BARRIERS, WALKWAYS, ETC. AND INCLUDING CONTROL OF THE INTENSITY, DURATION AND LOCATION OF CONSTRUCTION LOADS.
- 3. THE RESPONSIBILITY FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, UNDERPINNING, AND SHORING REQUIRED TO SAFELY RETAIN ALL GRADES AND STRUCTURES SHALL BEAR ON THE CONTRACTOR.
- 4. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON A STRUCTURE. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD INDICATED. WHERE THE STRUCTURE HAS NOT ATTAINED FINAL DESIGN STRENGTH, ADEQUATE SHORING AND OR BRACING SHALL BE INSTALLED.

G. FOUNDATION:

- 1. THE RECOMMENDATIONS PROVIDED IN THE GEOTECHNICAL INVESTIGATION REPORT SHALL BE FOLLOWED: BY GEOTECHNICS, INC.
- DATED: NOVEMBER 8, 2007 PROJECT NO: 0287-008-00
- 2. DEVIATIONS IN GEOTECHNICAL CONDITIONS FROM THOSE DESCRIBED IN THE GEOTECHNICAL REPORT SHALL BE REPORTED TO THE STRUCTURAL AND GEOTECHNICAL ENGINEERS IN A TIMELY MANNER.
- 3. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
- 4. THE MAXIMUM ALLOWABLE SOIL BEARING PRESSURE SHALL BE 5,000 psf. ALLOWABLE BEARING MAY BE INCREASED BY 250 psf AND 500 psf FOR EAC ADDITIONAL FOOT OF FOUNDATION WIDTH AND DEPTH, RESPECTIVELY, TO A MAXIMUM OF 7,500 psf. THE RESULTING ALLOWABLE BEARING VALUE MAY BE INCREASED BY 1/3 FOR WIND AND SEISMIC LOAD CASES.
- 5. THE EXPANSION INDEX HAS BEEN DETERMINED TO BE 50 OR LESS AND NO SPECIAL DESIGN RECOMMENDATIONS ARE REQUIRED. 6. FOOTING AND UTILITY TRENCH BACKFILL SHALL BE MECHANICALLY
- COMPACTED IN LAYERS SUBJECT TO THE APPROVAL OF THE GEOTECHNICAL ENGINEER. FLOODING WILL NOT BE PERMITTED. 7. LOOSE SOIL AND FILL MATERIAL SHALL BE COMPACTED ACCORDING TO THE REQUIREMENTS OF THE SOILS REPORT.
- 8. COMPACTION TEST REPORTS FOR FILL BY A QUALIFIED TESTING LAB SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER, GEOTECHNICAL ENGINEER AND BUILDING OFFICIAL PRIOR TO REQUESTING FOUNDATION INSPECTION.
- 9. FOOTING DEPTHS INDICATED ON THE STRUCTURAL DRAWINGS ARE FOR BIDDING PURPOSES ONLY AND ARE ASSUMED TO BE IN SUITABLE BEARING MATERIALS. THE GEOTECHNICAL ENGINEER MAY REQUIRE FOUNDATION DEPTHS TO BE INCREASED. THE RESPONSIBILITY FOR CONFORMING TO THE GEOTECHNICAL REPORT RECOMMENDATIONS REGARDING DEPTH OF FOOTINGS SHALL BEAR ON THE CONTRACTOR.
- 10. FOOTING ELEVATIONS SHALL BE LOCATED SUCH THAT THEIR BEARING IS A MINIMUM HORIZONTAL DISTANCE OF EIGHT FEET FROM THE DAYLIGHT OF AN ADJACENT SLOPE OR AS RECOMMENDED WITHIN THE GEOTECHNICAL REPORT. 11. ANCHOR BOLTS, DOWELS AND HOLD-DOWN ANCHORS SHALL BE TIED IN PLACE
- PRIOR TO FOUNDATION INSPECTION. 12. WALLS RETAINING EARTH SHALL BE DRAINED AND BACKFILLED ACCORDING
- TO THE RECOMMENDATIONS WITHIN THE GEOTECHNICAL REPORT. 13. BACKFILLING BEHIND RETAINING WALLS SHALL NOT BEGIN UNTIL WALLS HAVE
- BEEN CURED FOR A MINIMUM OF 14 DAYS. 14. SHORING SHALL BE INSTALLED AT THE TOP OF RESTRAINED RETAINING WALLS PRIOR TO BACKFILLING. SHORING SHALL REMAIN IN PLACE UNTIL THE PERMANENT STRUCTURAL SUPPORTING MEMBERS ARE IN PLACE. FOR CONCRETE SUPPORTING MEMBERS, SHORING TO REMAIN IN PLACE FOR A
- MINIMUM OF 7 DAYS AFTER CONCRETE PLACEMENT. 15. SLABS ON GRADE THAT RESTRAIN THE BOTTOM OF RETAINING WALLS SHALL BE IN PLACE PRIOR TO BACKFILLING OF THE WALLS.

H. REINFORCING STEEL:

- 1. DETAILING, FABRICATION AND ERECTION OF REINFORCING BARS SHALL FOLLOM ACI 315, "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
- 2. SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704, 1707 AND 1708 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
- 3. REINFORCING BARS SHALL CONFORM TO ASTM A 615, GRADE 60, U.O.N.
- 4. LONGITUDINAL REINFORCING BARS FOR COLUMNS AND IN SEISMIC ELEMENTS INCLUDING SHEAR WALL BOUNDARY ZONES SHALL CONFORM TO ASTM A 706, GRADE 60. BARS CONFORMING TO ASTM A 615, GRADE 60 MAY BE SUBSTITUTED AT THESE LOCATIONS PROVIDED THE FOLLOWING CONDITIONS (BASED ON MILL TESTS) ARE MET: A. THE ACTUAL YIELD STRENGTH DOES NOT EXCEED THE SPECIFIED YIELD STRENGTH BY MORE THAN 18,000 psi. B. THE RATIO OF THE ACTUAL TENSILE STRENGTH TO ACTUAL YIELD
- STRENGTH IS NOT LESS THAN 1.25. 5. WELDED REINFORCING BARS SHALL CONFORM TO ASTM A 706, GRADE 60. BARS TO BE WELDED CONFORMING TO ASTM A 615, GRADE 60 MAY BE SUBSTITUTED PROVIDED THAT THE WELDING OF BARS COMPLIES WITH ANS D1.4 AND THE MINIMUM SPECIFICATIONS FOR WELDING OF REINFORCING STEEL INCLUDED HEREIN.
- 6. WELDED REINFORCEMENT GRIDS SHALL BE BAUGRID (ICC #ER-5192 OR #ESR-2352). ALTERNATE PRODUCTS SHALL CARRY AN ICC APPROVAL AND SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO DELIVERY TO THE JOBSITE. 7. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185. MINIMUM LAP OF WWF
- SHALL BE ONE FULL MESH + 2". 8. REINFORCING BAR LAP SPLICES SHALL BE
- CLASS B. (18" MIN.) FOR CONCRETE, U.O.N. 65 BAR DIA. (24" MIN.) FOR MASONRY, U.O.N.
- 9. DETAILS OF REINFORCEMENT SHALL COMPLY WITH ACI 318, CHAPTER 7 10. REINFORCING BAR LAP SPLICES SHALL NOT BE PERMITTED IN SHEAR WALLS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED
- BY THE ENGINEER IN WRITING. 11. REINFORCING BARS FOR CONCRETE SHALL BE PROVIDED WITH THE FOLLOWING

MINIMUM COVER:	
CONC. CAST AGAINST EARTH FORMED CONC. EXPOSED TO EARTH / WEATHER	З"
#5 OR SMALLER #6 OR LARGER SLABS (#11 AND SMALLER) BEAMS & GIRDERS C.I.P. WALLS COLUMN TIES	1-1/2" 2" 1" 1-1/2" 1-1/2" 1-1/2"

- 12. VERTICAL WALL BARS SHALL BE ACCURATELY POSITIONED AT THE CENTER OF THE WALL, U.O.N., AND SHALL BE TIED IN PLACE AT THE TOP AND BOTTOM.
- 13. #3 SPACER TIES SHALL BE INSTALLED AT 30" ON CENTER IN ALL BEAMS AND FOOTINGS TO SECURE REINFORCING BARS IN PLACE, U.O.N.

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		DANCE WITH THE BUILDING CODE)	BD PK #1 100 CI	D C
ROOF	ECHANICAL AREA (LAB & LAB SUPPORT)	150 psf 20 psf 125 psf		
FLOOR (PARTITIC		100 psf 0 psf 100 psf		
MECHANI	CAL/ELECTRICAL ROOMS	150 psf 40 psf		
PARKING 3. SEISMIC D		40 psf		
SEISMIC	NCY CATEGORY IMPORTANCE FACTOR	$ _{E} = 1.0$		
	SPECTRAL ACCELERATION SPECTRAL ACCELERATION ASS	S5 = 1.591 S1 = 0.611 C		
SITE COE	EFFICIENT EFFICIENT SPECTRAL ACCELERATION	F _a = 1.0 F _v = 1.3 S _{D5} = 1.061		
DESIGN S SEISMIC I	SPECTRAL ACCELERATION DESIGN CATEGORY DN LOADING AT FLOORS	S _{D1} = 0.530 D		
PARTITIC	DN LOADING AT FLOORS DN LOADING AT ROOFS S PROCEDURE USED	10 psf 5 psf MODAL RESPONSE SPECTR		
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SEISM	ECTION AMPLIFICATION FACTOR 4IC RESPONSE COEFFICIENT 5N BASE SHEAR			
FOR TRA	ANSVERSE DIRECTION: MIC FORCE RESISTING SYSTEM	SPECIAL REINFORCED		
SYST	ONSE MODIFICATION EM OVERSTRENGTH FACTOR			
SEISM	ECTION AMPLIFICATION FACTOR MIC RESPONSE COEFFICIENT SN BASE SHEAR	C _d = 5 C₅ = 0.139 V = 3320 k	MEDICIN	
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5. AS AN ALTERNATE TO MULTIPLE PAPER COPIES, SHOP DRAWINGS MAY BE SUBMITTED IN ELECTRONIC (PDF) FORMAT. WHERE SUBMITTED ELECTRONICALLY, SHOP DRAWINGS WILL BE PROCESSED AND RETURNED ELECTRONICALLY.

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PROJECT #: 208005.000

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