

GENERAL

- A. THESE GENERAL NOTES ARE NOT INTENDED TO REPLACE SPECIFICATIONS. SEE SPECIFICATIONS FOR REQUIREMENTS IN ADDITION TO GENERAL NOTES.
B. NOT ALL EXISTING CONDITIONS, PROPOSED CONDITIONS OR UTILITIES ARE SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE STRUCTURAL WORK WITH THE WORK OF OTHER TRADES. IN CASE OF CONFLICT, NOTIFY THE ENGINEER OF RECORD.
C. THE STRUCTURE HAS BEEN DESIGNED TO RESIST DESIGN LOADS ONLY AS A COMPLETE STRUCTURE. APPLICATIONS OF CONSTRUCTION LOADS TO THE PARTIALLY COMPLETED STRUCTURE SHALL BE CONSIDERED AND SO INCLUDED IN THE DESIGN OF SHORING, BRACING, FORMWORK AND STRUCTURE DURING ERECTION AND UNTIL ALL PERMANENT CONNECTIONS ARE MADE. TEMPORARY BRACING FOR THE STRUCTURE MUST BE PROVIDED IN ALL DIRECTIONS.
D. ONLY USE DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS.
E. ELEVATIONS INDICATED ON THE STRUCTURAL DRAWINGS ARE BASED ON A PROJECT DATUM INDICATED ON THE ARCHITECTURAL DRAWINGS.
F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES IN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH WORK.
G. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE COMPLETE DESIGN OF THE STRUCTURE. THEY DO NOT INCLUDE THE MEANS AND METHODS OF CONSTRUCTION UNLESS SO NOTED OR NOTED. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE WORKERS, OR THEIR PERSONS DURING CONSTRUCTION.
H. OBSERVATION VISITS TO THE SITE BY ENGINEER OF RECORD OR REPRESENTATIVES OF THE ENGINEER OF RECORD MAY BE MADE DURING CONSTRUCTION. ANY SUPPORT SERVICES PERFORMED HEREIN SHALL BE DISTINGUISHED FROM INSPECTION AND/OR TESTING SERVICES PERFORMED BY OTHERS AND NOT TO BE CONSIDERED AS SUPERVISION AND/OR MANAGEMENT OF CONSTRUCTION.
I. THE CONTRACTOR SHALL PROVIDE TEMPORARY ERECTION BRACING AND SHORING OF ALL STRUCTURAL MEMBERS AS REQUIRED FOR STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT ENGINEER OF ANY CONDITION WHICH, IN HIS OPINION, MIGHT ENDANGER THE STABILITY OF THE STRUCTURE OR CAUSE DISTRESS WITHIN THE STRUCTURE.
J. CONSTRUCTION MATERIALS SHALL NOT BE STACKED ON FLOORS OR ROOFS IN EXCESS OF THE DESIGN LOAD WHICH IS INDICATED IN THE GENERAL NOTES. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE SUBCONTRACTORS ARE INFORMED AND DO NOT VIOLATE THIS IMPORTANT REQUIREMENT. IMPACT SHALL BE AVOIDED WHEN PLACING MATERIALS ON FLOORS OR ROOFS.
K. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHEN CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO THE DETAILS PRESENTED, SIMILAR DETAILS SHALL BE USED SUBJECT TO THE REVIEW OF ENGINEER OF RECORD.
L. SUBMIT WRITTEN REQUEST TO THE ARCHITECT FOR APPROVAL OF ANY PROPOSED CHANGE TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. SPlicing, CUTTING, NOTCHING OR OTHER ALTERATIONS TO STRUCTURAL MEMBERS ARE NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION OF THE ENGINEER. ANY UNAUTHORIZED DEVIATION FROM THE CONTRACT DOCUMENTS AND CORRECTION THEREOF IS THE RESPONSIBILITY OF THE CONTRACTOR. SUBSEQUENT CONSTRUCTION REQUESTS TO BUILDING ENGINEER OF RECORD FROM GENERAL CONTRACTOR SHALL INCLUDE EVALUATION OF DEVIATIONS BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

- DESIGN CRITERIA
A. FLORIDA BUILDING CODE WITH EDITION 2017, AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS.
B. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
C. AISC 360-10 STRUCTURAL STEEL CONNECTIONS MANUAL.
D. AISC 360-10 STRUCTURAL STEEL CONSTRUCTION, 14TH EDITION.
E. NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2012 (AISI S100-12).
F. NDS-15 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
G. SERVICEABILITY AND DEFLECTION CRITERIA PER GOVERNING COMPONENT DESIGN STANDARD.

DESIGN LOADS
A. ROOF LIVE LOADS: 20 PSF
B. ROOF DEAD LOAD: 20 PSF
C. WIND LOADING
1. ULTIMATE DESIGN WIND SPEED, VULT: 150 MPH
2. MINIMUM WIND SPEED VASD: 117 MPH
3. MIN WIND SPEED, VASD, VULT: 141 MPH
4. WIND CATEGORY (TABLE 1.3-1, ASCE 7): II
5. WIND EXPOSURE: C
6. ENCLOSURE CLASSIFICATION: ENCLOSED (+/- 0.15)
7. COMPONENT AND CLADDING: SEE THIS SHEET FOR CMC WIND PRESSURES. SEE THIS SHEET FOR CMC WIND PRESSURES.
8. WIND UPLIFT (LOADING WIND - STEEL JOIST): USE 10PSF MAXIMUM DEAD LOAD FOR UPLIFT CALCULATIONS.

DESIGN SUBMITTALS
A. SHOP DRAWINGS: DATA TO BE SUBMITTED FOR APPROVAL.
1. STRUCTURAL STEEL SHOP DRAWINGS (INCLUDING STEEL JOISTS AND GRIDDERS)
a. ERECTION DRAWINGS
b. PIERCE DRAWINGS
c. METAL DECK DRAWINGS
d. PREP PROCEDURE AND FERRIMANOID MATERIAL
e. CURRENT WELDERS CERTIFICATIONS
2. CONCRETE
a. MIX DESIGN
b. MATERIAL CERTIFICATES
c. HISTORICAL TESTING BACKGROUND
3. MASONRY
a. MATERIAL CERTIFICATION
b. ASTM TEST DOCUMENTATION
4. CONCRETE REINFORCING SHOP DRAWINGS
a. PLACEMENT DRAWINGS
b. FABRICATION AND BRACING DETAILS
5. COLD-FORMED STEEL FRAMING/ACCESSORIES
a. MANUFACTURERS CUT SHEET FOR STUDS AND TRACK
b. THE FOLLOWING SUBMITTALS SHALL BE SIGNED AND SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA:
c. COLD-FORMED STEEL TRUSS SYSTEMS
d. RTU THE DWG'S

- APPROVAL OF SHOP DRAWINGS DOES NOT INDICATE ACCEPTANCE OF DEVIATIONS FROM CONTRACT DOCUMENTS OR PREVIOUS SHOP DRAWING REVIEW, UNLESS SPECIFICALLY NOTED THEREIN BY ENGINEER OF RECORD.
F. ANY CHANGES TO THE DESIGN CONCEPT SHOWN IN CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING AND APPROVED BY THE ARCHITECT AND ENGINEER PRIOR TO SUBMITTING SHOP DRAWINGS. ALL SUCH CHANGES SHALL BE "SIGNLED" ON THE SHOP DRAWINGS AND REFERENCED TO THE PROPER SET.
G. SUBMITTALS SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS (SEE ITEM F ABOVE) FOR EXCEPTIONAL NON-COMPLIANCE OR NON-REVIEWED DETAILS WILL BE RETURNED WITHOUT REVIEW.
H. SHOP DRAWINGS SHALL BE "APPROVED", SIGNED AND DATED BY THE ARCHITECT AND CONTRACTOR PRIOR TO SUBMITTAL TO ENGINEER AND ARCHITECT FOR REVIEW.
I. SHOP DRAWINGS SHALL CONTAIN REPRODUCTION OF ALL CONTRACT DRAWINGS.
J. PROVIDE COPIES OF MANUFACTURERS LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

0201 EARTHWORK / FOUNDATION

- A. FOUNDATION DESIGN IS BASED UPON THE FOLLOWING:
NO REPORT PROVIDED.
PRIOR TO CONSTRUCTION, CONTRACTOR SHALL RETAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER. THE GENERAL CONTRACTOR HEREIN IS RESPONSIBLE FOR PERFORMING ALL EARTHWORK OPERATIONS IN STRICT ACCORDANCE WITH GEOTECHNICAL ENGINEERING REQUIREMENTS.
IF THE FOUNDATION RECOMMENDATIONS AND/OR DESIGN VALUES DIFFER FROM THAT ASSUMED, MODIFICATIONS TO THE DRAWINGS MAY BE REQUIRED.
DO NOT PLACE CONCRETE PRIOR TO GEOTECHNICAL APPROVAL.
THE DESIGN ALLOWABLE SOIL BEARING PRESSURE (S) LISTED IN THE DESIGN LOADING CRITERIA, NET ALLOWABLE SOIL PRESSURE ASSUMED TO BE AT 30" (DEPTH) FROM SURFACE, SHALL ONLY BE USED FOR FOUNDATION SYSTEMS ASSUMED TO BE ADEQUATE. ESTIMATED SETTLEMENT ASSUMED TO BE NO GREATER THAN 1" OVERALL AND 1/2" LOCAL SETTLEMENT. IT IS ASSUMED THAT ALL PROBLEMATICS SUCH AS SWELLING, EXPANSIVE, ETC WILL BE REMOVED AND REPLACED WITH SUITABLE STRUCTURAL FILL.
B. SEE SECTION 0201-04 IN THE PROJECT MANUAL AND SPECIFICATIONS FOR EARTHWORKS TO INCLUDE BUT NOT LIMITED TO:
1. PREPARING AND GRADING SUBGRADE FOR SLABS-ON-GRADE
2. EXCAVATING AND BRACING FLOOR FOR BUILDINGS AND STRUCTURES
3. DRAINAGE AND MOISTURE CONTROL, FILL CONCRETE FOR SLABS-ON-GRADE
4. EXCAVATING AND BACKFILLING TRENCHES WITHIN BUILDING LINES
5. MATERIAL, INSPECTION AND TESTING REQUIREMENTS
C. ANY FILL REQUIRED TO BACKFILL EXCAVATED AREA OR ACHIEVE FINISHED GRADE IN STRUCTURAL AREAS SHALL BE AS INDICATED BY GEOTECHNICAL ENGINEER. THE FILL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" LOOSE THICKNESS AND COMPACTED TO A MINIMUM OF 95% OF THE SOILS MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM SPECIFICATION D1557.
D. IN-PLACE DENSITY TESTS SHALL BE PERFORMED BY AN EXPERIENCED ENGINEERING TECHNICIAN. TESTS SHALL BE REQUIRED FOR EACH 1,000 SQUARE FEET IN EVERY COLUMN FOOTING. LOCATION AND EACH 50'-0" ALONG WALL FOOTINGS. COPIES OF THE TEST REPORTS SHALL BE FURNISHED TO THE STRUCTURAL ENGINEER.
E. REMOVE FREE WATER FROM EXCAVATIONS BEFORE PLACING CONCRETE. WATER TABLE ASSUMED TO BE LOW OR PRELIMINARY BULKHEAD CONDITIONS ON FOOTINGS.
F. CAUTION SHALL BE USED WHEN OPERATING VIBRATORY COMPACTING EQUIPMENT NEAR THE EXISTING STRUCTURE TO AVOID THE RISK OF DAMAGE TO THE STRUCTURE.
G. REFER TO ARCHITECTURE DRAWINGS FOR ANY NECESSARY WATERPROOFING REQUIREMENTS.

0202 LAST-IN-PLACE CONCRETE

- A. SEE SECTION 0501 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:
1. GENERAL REQUIREMENTS
a. SUBMITTALS
b. QUALITY ASSURANCE / QOE REQUIREMENTS
2. PRODUCT / MATERIAL REQUIREMENTS
a. SHORING
b. VAPOR BARRIER
c. JOINTS
d. PLACEMENT / FINISHING
e. CURING
3. EXECUTION OF WORK REQUIREMENTS
4. QUALITY CONTROL - TESTING REQUIREMENTS
B. SUMMARY OF PROJECT MANUAL AND SPECIFICATIONS SECTION 0202-02 PRODUCTS:
1. CONCRETE STRENGTH: 4000 PSI
2. STEEL REINFORCEMENT: #5 @ 18" MAX. SPACING
3. PLAIN-STEEL FIBER FABRIC: ASTM A191, 4% BY WEIGHT
C. LAP SPICE REINFORCEMENT LENGTH
LAP SPICES (INCHES)
REF: CRSI CLASS B - #5 @ 18" UNCL. LOCATED BASES, NORMAL HEIGHT CONC.

REINFORCEMENT LENGTH
LAP SPICES (INCHES)
#5 @ 18" UNCL. LOCATED BASES, NORMAL HEIGHT CONC.

- D. CONCRETE COVER FOR REINFORCEMENT:
1. CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE GROUND: 3"
2. EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: 2"
3. NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND: 1 1/2"
E. THERE SHALL BE NO HORIZONTAL JOINTS IN ANY CONCRETE POURS UNLESS SHOWN ON THE STRUCTURAL DRAWINGS. THE ENGINEER OF RECORD SHALL APPROVE ALL DEVIATIONS OR ADDITIONAL JOINTS IN WRITING.
F. SAW CUT CONTROL JOINTS SHALL BE LOCATED AT 12'-0" OR MAXIMUM MINIMUM UNLESS OTHERWISE NOTED, WITH LENGTH TO WIDTH RATIO NOT TO EXCEED 1:5 (INDICATED ON PLAN). JOINTS IN TERRAZZO FINISH FLOOR MUST ALSO MATCH WITH CONCRETE CONTROL JOINTS.
G. LIQUID MEMBRANE FORMING CURING COMPOUNDS ARE PROHIBITED FROM USE ON THE BUILDING SLAB ON GRADE AS THEY MAY ADVERSELY AFFECT THE PERFORMANCE OF THE CONCRETE TERRAZZO TOPPING. PROVIDE FOR CURING OF THE SLAB VIA ALTERNATE OR TRADITIONAL METHODS. REFER TO ACI 308.1 FOR ADDITIONAL INFORMATION.
H. ALL EPOXY ANCHORS USED AT REINFORCED CONCRETE SHALL BE 1111H141 150 OR HT41Y 300, UNLESS OTHERWISE NOTED.
I. POWDER ACTUATED FASTENERS (PAF'S) NOT PERMITTED AT CONCRETE UNLESS OTHERWISE NOTED.

0203 UNIT MASONRY

- A. SEE SECTION 0203 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:
1. GENERAL REQUIREMENTS
a. SUBMITTALS
b. MATERIAL REQUIREMENTS
c. NOT-WEATHER AND COLD-WEATHER REQUIREMENTS
d. PERFORMANCE REQUIREMENTS
e. MASONRY COMPRESSIVE STRENGTH (f'm) 1500 PSI
2. PRODUCTS
3. EXECUTION
4. FIELD QUALITY CONTROL
B. SUMMARY OF PROJECT MANUAL AND SPECIFICATIONS SECTION 0203-01 PRODUCTS:
1. CONCRETE MASONRY UNIT: 8" x 8" x 16" (NOMINAL) WITH 1/2" (NOMINAL) MORTAR JOINTS
2. REINFORCING BARS: ASTM A618, GRADE 60
3. REINFORCING JOINTS: ASTM A618, GRADE 60 GALVANIZED STEEL WIRE
C. LAP SPICE REINFORCEMENT: ALL LENGTHS = 33" (8 BARS); FOR 1/2" BAR PER CELL 48" (8 BARS); FOR 3/8" BAR PER CELL 48" (8 BARS); FOR 3/4" BAR PER CELL 48" (8 BARS); FOR 1" BAR PER CELL 48" (8 BARS); FOR 1 1/2" BAR PER CELL 48" (8 BARS); FOR 2" BAR PER CELL 48" (8 BARS); FOR 3" BAR PER CELL 48" (8 BARS); FOR 4" BAR PER CELL 48" (8 BARS); FOR 6" BAR PER CELL 48" (8 BARS); FOR 8" BAR PER CELL 48" (8 BARS); FOR 10" BAR PER CELL 48" (8 BARS); FOR 12" BAR PER CELL 48" (8 BARS); FOR 14" BAR PER CELL 48" (8 BARS); FOR 16" BAR PER CELL 48" (8 BARS); FOR 18" BAR PER CELL 48" (8 BARS); FOR 20" BAR PER CELL 48" (8 BARS); FOR 22" BAR PER CELL 48" (8 BARS); FOR 24" BAR PER CELL 48" (8 BARS); FOR 26" BAR PER CELL 48" (8 BARS); FOR 28" BAR PER CELL 48" (8 BARS); FOR 30" BAR PER CELL 48" (8 BARS); FOR 32" BAR PER CELL 48" (8 BARS); FOR 34" BAR PER CELL 48" (8 BARS); FOR 36" BAR PER CELL 48" (8 BARS); FOR 38" BAR PER CELL 48" (8 BARS); FOR 40" BAR PER CELL 48" (8 BARS); FOR 42" BAR PER CELL 48" (8 BARS); FOR 44" BAR PER CELL 48" (8 BARS); FOR 46" BAR PER CELL 48" (8 BARS); FOR 48" BAR PER CELL 48" (8 BARS); FOR 50" BAR PER CELL 48" (8 BARS); FOR 52" BAR PER CELL 48" (8 BARS); FOR 54" BAR PER CELL 48" (8 BARS); FOR 56" BAR PER CELL 48" (8 BARS); FOR 58" BAR PER CELL 48" (8 BARS); FOR 60" BAR PER CELL 48" (8 BARS); FOR 62" BAR PER CELL 48" (8 BARS); FOR 64" BAR PER CELL 48" (8 BARS); FOR 66" BAR PER CELL 48" (8 BARS); FOR 68" BAR PER CELL 48" (8 BARS); FOR 70" BAR PER CELL 48" (8 BARS); FOR 72" BAR PER CELL 48" (8 BARS); FOR 74" BAR PER CELL 48" (8 BARS); FOR 76" BAR PER CELL 48" (8 BARS); FOR 78" BAR PER CELL 48" (8 BARS); FOR 80" BAR PER CELL 48" (8 BARS); FOR 82" BAR PER CELL 48" (8 BARS); FOR 84" BAR PER CELL 48" (8 BARS); FOR 86" BAR PER CELL 48" (8 BARS); FOR 88" BAR PER CELL 48" (8 BARS); FOR 90" BAR PER CELL 48" (8 BARS); FOR 92" BAR PER CELL 48" (8 BARS); FOR 94" BAR PER CELL 48" (8 BARS); FOR 96" BAR PER CELL 48" (8 BARS); FOR 98" BAR PER CELL 48" (8 BARS); FOR 100" BAR PER CELL 48" (8 BARS); FOR 102" BAR PER CELL 48" (8 BARS); FOR 104" BAR PER CELL 48" (8 BARS); FOR 106" BAR PER CELL 48" (8 BARS); FOR 108" BAR PER CELL 48" (8 BARS); FOR 110" BAR PER CELL 48" (8 BARS); FOR 112" BAR PER CELL 48" (8 BARS); FOR 114" BAR PER CELL 48" (8 BARS); FOR 116" BAR PER CELL 48" (8 BARS); FOR 118" BAR PER CELL 48" (8 BARS); FOR 120" BAR PER CELL 48" (8 BARS); FOR 122" BAR PER CELL 48" (8 BARS); FOR 124" BAR PER CELL 48" (8 BARS); FOR 126" BAR PER CELL 48" (8 BARS); FOR 128" BAR PER CELL 48" (8 BARS); FOR 130" BAR PER CELL 48" (8 BARS); FOR 132" BAR PER CELL 48" (8 BARS); FOR 134" BAR PER CELL 48" (8 BARS); FOR 136" BAR PER CELL 48" (8 BARS); FOR 138" BAR PER CELL 48" (8 BARS); FOR 140" BAR PER CELL 48" (8 BARS); FOR 142" BAR PER CELL 48" (8 BARS); FOR 144" BAR PER CELL 48" (8 BARS); FOR 146" BAR PER CELL 48" (8 BARS); FOR 148" BAR PER CELL 48" (8 BARS); FOR 150" BAR PER CELL 48" (8 BARS); FOR 152" BAR PER CELL 48" (8 BARS); FOR 154" BAR PER CELL 48" (8 BARS); FOR 156" BAR PER CELL 48" (8 BARS); FOR 158" BAR PER CELL 48" (8 BARS); 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FOR 552" BAR PER CELL 48" (8 BARS); FOR 554" BAR PER CELL 48" (8 BARS); FOR 556" BAR PER CELL 48" (8 BARS); FOR 558" BAR PER CELL 48" (8 BARS); FOR 560" BAR PER CELL 48" (8 BARS); FOR 562" BAR PER CELL 48" (8 BARS); FOR 564" BAR PER CELL 48" (8 BARS); FOR 566" BAR PER CELL 48" (8 BARS); FOR 568" BAR PER CELL 48" (8 BARS); FOR 570" BAR PER CELL 48" (8 BARS); FOR 572" BAR PER CELL 48" (8 BARS); FOR 574" BAR PER CELL 48" (8 BARS); FOR 576" BAR PER CELL 48" (8 BARS); FOR 578" BAR PER CELL 48" (8 BARS); FOR 580" BAR PER CELL 48" (8 BARS); FOR 582" BAR PER CELL 48" (8 BARS); FOR 584" BAR PER CELL 48" (8 BARS); FOR 586" BAR PER CELL 48" (8 BARS); FOR 588" BAR PER CELL 48" (8 BARS); FOR 590" BAR PER CELL 48" (8 BARS); FOR 592" BAR PER CELL 48" (8 BARS); FOR 594" BAR PER CELL 48" (8 BARS); FOR 596" BAR PER CELL 48" (8 BARS); FOR 598" BAR PER CELL 48" (8 BARS); FOR 600" BAR PER CELL 48" (8 BARS); FOR 602" BAR PER CELL 48" (8 BARS); FOR 604" BAR PER CELL 48" (8 BARS); FOR 606" BAR PER CELL 48" (8 BARS); FOR 608" BAR PER CELL 48" (8 BARS); FOR 610" BAR PER CELL 48" (8 BARS); FOR 612" BAR PER CELL 48" (8 BARS); FOR 614" BAR PER CELL 48" (8 BARS); FOR 616" BAR PER CELL 48" (8 BARS); FOR 618" BAR PER CELL 48" (8 BARS); FOR 620" BAR PER CELL 48" (8 BARS); FOR 622" BAR PER CELL 48" (8 BARS); FOR 624" BAR PER CELL 48" (8 BARS); FOR 626" BAR PER CELL 48" (8 BARS); FOR 628" BAR PER CELL 48" (8 BARS); FOR 630" BAR PER CELL 48" (8 BARS); FOR 632" BAR PER CELL 48" (8 BARS); FOR 634" BAR PER CELL 48" (8 BARS); FOR 636" BAR PER CELL 48" (8 BARS); FOR 638" BAR PER CELL 48" (8 BARS); FOR 640" BAR PER CELL 48" (8 BARS); FOR 642" BAR PER CELL 48" (8 BARS); FOR 644" BAR PER CELL 48" (8 BARS); FOR 646" BAR PER CELL 48" (8 BARS); FOR 648" BAR PER CELL 48" (8 BARS); FOR 650" BAR PER CELL 48" (8 BARS); FOR 652" BAR PER CELL 48" (8 BARS); FOR 654" BAR PER CELL 48" (8 BARS); FOR 656" BAR PER CELL 48" (8 BARS); FOR 658" BAR PER CELL 48" (8 BARS); FOR 660" BAR PER CELL 48" (8 BARS); FOR 662" BAR PER CELL 48" (8 BARS); FOR 664" BAR PER CELL 48" (8 BARS); FOR 666" BAR PER CELL 48" (8 BARS); FOR 668" BAR PER CELL 48" (8 BARS); FOR 670" BAR PER CELL 48" (8 BARS); FOR 672" BAR PER CELL 48" (8 BARS); FOR 674" BAR PER CELL 48" (8 BARS); FOR 676" BAR PER CELL 48" (8 BARS); FOR 678" BAR PER CELL 48" (8 BARS); FOR 680" BAR PER CELL 48" (8 BARS); FOR 682" BAR PER CELL 48" (8 BARS); FOR 684" BAR PER CELL 48" (8 BARS); FOR 686" BAR PER CELL 48" (8 BARS); FOR 688" BAR PER CELL 48" (8 BARS); FOR 690" BAR PER CELL 48" (8 BARS); FOR 692" BAR PER CELL 48" (8 BARS); FOR 694" BAR PER CELL 48" (8 BARS); FOR 696" BAR PER CELL 48" (8 BARS); FOR 698" BAR PER CELL 48" (8 BARS); FOR 700" BAR PER CELL 48" (8 BARS); FOR 702" BAR PER CELL 48" (8 BARS); FOR 704" BAR PER CELL 48" (8 BARS); FOR 706" BAR PER CELL 48" (8 BARS); FOR 708" BAR PER CELL 48" (8 BARS); FOR 710" BAR PER CELL 48" (8 BARS); FOR 712" BAR PER CELL 48" (8 BARS); FOR 714" BAR PER CELL 48" (8 BARS); FOR 716" BAR PER CELL 48" (8 BARS); FOR 718" BAR PER CELL 48" (8 BARS); FOR 720" BAR PER CELL 48" (8 BARS); FOR 722" BAR PER CELL 48" (8 BARS); FOR 724" BAR PER CELL 48" (8 BARS); FOR 726" BAR PER CELL 48" (8 BARS); FOR 728" BAR PER CELL 48" (8 BARS); FOR 730" BAR PER CELL 48" (8 BARS); FOR 732" BAR PER CELL 48" (8 BARS); FOR 734" BAR PER CELL 48" (8 BARS); FOR 736" BAR PER CELL 48" (8 BARS); FOR 738" BAR PER CELL 48" (8 BARS); FOR 740" BAR PER CELL 48" (8 BARS); FOR 742" BAR PER CELL 48" (8 BARS); FOR 744" BAR PER CELL 48" (8 BARS); FOR 746" BAR PER CELL 48" (8 BARS); FOR 748" BAR PER CELL 48" (8 BARS); FOR 750" BAR PER CELL 48" (8 BARS); FOR 752" BAR PER CELL 48" (8 BARS); FOR 754" BAR PER CELL 48" (8 BARS); FOR 756" BAR PER CELL 48" (8 BARS); FOR 758" BAR PER CELL 48" (8 BARS); FOR 760" BAR PER CELL 48" (8 BARS); FOR 762" BAR PER CELL 48" (8 BARS); FOR 764" BAR PER CELL 48" (8 BARS); FOR 766" BAR PER CELL 48" (8 BARS); FOR 768" BAR PER CELL 48" (8 BARS); FOR 770" BAR PER CELL 48" (8 BARS); FOR 772" BAR PER CELL 48" (8 BARS); FOR 774" BAR PER CELL 48" (8 BARS); 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FOR 832" BAR PER CELL 48" (8 BARS); FOR 834" BAR PER CELL 48" (8 BARS); FOR 836" BAR PER CELL 48" (8 BARS); FOR 838" BAR PER CELL 48" (8 BARS); FOR 840" BAR PER CELL 48" (8 BARS); FOR 842" BAR PER CELL 48" (8 BARS); FOR 844" BAR PER CELL 48" (8 BARS); FOR 846" BAR PER CELL 48" (8 BARS); FOR 848" BAR PER CELL 48" (8 BARS); FOR 850" BAR PER CELL 48" (8 BARS); FOR 852" BAR PER CELL 48" (8 BARS); FOR 854" BAR PER CELL 48" (8 BARS); FOR 856" BAR PER CELL 48" (8 BARS); FOR 858" BAR PER CELL 48" (8 BARS); FOR 860" BAR PER CELL 48" (8 BARS); FOR 862" BAR PER CELL 48" (8 BARS); FOR 864" BAR PER CELL 48" (8 BARS); FOR 866" BAR PER CELL 48" (8 BARS); FOR 868" BAR PER CELL 48" (8 BARS); FOR 870" BAR PER CELL 48" (8 BARS); FOR 872" BAR PER CELL 48" (8 BARS); FOR 874" BAR PER CELL 48" (8 BARS); FOR 876" BAR PER CELL 48" (8 BARS); FOR 878" BAR PER CELL 48" (8 BARS); FOR 880" BAR PER CELL 48" (8 BARS); FOR 882" BAR PER CELL 48" (8 BARS); FOR 884" BAR PER CELL 48" (8 BARS); FOR 886" BAR PER CELL 48" (8 BARS); FOR 888" BAR PER CELL 48" (8 BARS); FOR 890" BAR PER CELL 48" (8 BARS); FOR 892" BAR PER CELL 48" (8 BARS); FOR 894" BAR PER CELL 48" (8 BARS); FOR 896" BAR PER CELL 48" (8 BARS); FOR 898" BAR PER CELL 48" (8 BARS); FOR 900" BAR PER CELL 48" (8 BARS); FOR 902" BAR PER CELL 48" (8 BARS); FOR 904" BAR PER CELL 48" (8 BARS); FOR 906" BAR PER CELL 48" (8 BARS); FOR 908" BAR PER CELL 48" (8 BARS); FOR 910" BAR PER CELL 48" (8 BARS); FOR 912" BAR PER CELL 48" (8 BARS); FOR 914" BAR PER CELL 48" (8 BARS); FOR 916" BAR PER CELL 48" (8 BARS); FOR 918" BAR PER CELL 48" (8 BARS); FOR 920" BAR PER CELL 48" (8 BARS); FOR 922" BAR PER CELL 48" (8 BARS); FOR 924" BAR PER CELL 48" (8 BARS); FOR 926" BAR PER CELL 48" (8 BARS); FOR 928" BAR PER CELL 48" (8 BARS); FOR 930" BAR PER CELL 48" (8 BARS); FOR 932" BAR PER CELL 48" (8 BARS); FOR 934" BAR PER CELL 48" (8 BARS); FOR 936" BAR PER CELL 48" (8 BARS); FOR 938" BAR PER CELL 48" (8 BARS); FOR 940" BAR PER CELL 48" (8 BARS); FOR 942" BAR PER CELL 48" (8 BARS); FOR 944" BAR PER CELL