

FLAT ROOF 27-27 DEG.  
a. b. 6" x 12" MIN.

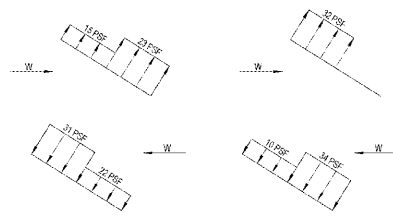
Table with 4 columns: WIND SPEED (mph), PRESSURE (psf), SUCTION (psf) for various roof types and conditions.

NOTES: 1. W DENOTES EDGE STRIP 6" x 8". 2. POSITIVE & NEGATIVE SIGNS INDICATE PRESSURES ACTING TOWARDS AND AWAY FROM THE BUILDING SURFACES, RESPECTIVELY.

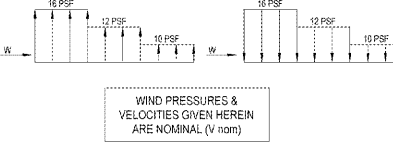
COMPONENTS & CLADDING PRESSURES

MONOPILE STRUCTURE WIND LOAD

- 1. MWFRS, TRANSVERSE WIND
2. MWFRS, LONGITUDINAL WIND



WIND PRESSURES & VELOCITIES GIVEN HEREIN ARE NOMINAL (V nom)



- 3. ROOF WL PRESSURES (MWFRS & C2) ARE THE COMBINED EFFECT OF WIND IN BOTH SURFACES (TOP & BOTTOM)
4. 20 TRUSSES, 38 PSF ON SOLID AREA EA TRUSS SIMULTANEOUSLY
5. SNFL, 38 PSF CASES A,B, AND C CONSIDERED
6. COLUMNS, SQUARE, 38 PSF ALL COLUMNS SIMULTANEOUSLY IN THE WIND DIRECTION BEING CONSIDERED

GENERAL

- A. THESE GENERAL NOTES ARE 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 BRACINGS 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 VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF DISCREPANCIES BETWEEN 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 INDICATE THE MEANS AND METHODS OF CONSTRUCTION UNLESS SO STATED 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 UNINCLUDED FROM INSPECTION AND / OR TESTING SERVICES PERFORMED BY OTHERS, AND ARE NOT TO BE CONSIDERED AS SUPERVISION AND / OR MAINTENANCE OF CONSTRUCTION.
I. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING BRACING AND SHIELDING 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 LIVE LOADS WHICH ARE 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. WHERE 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, SPECIFIC CUTTING, NOTCHING OR OTHER ALTERATIONS TO STRUCTURAL MEMBERS ARE NOT PERMITTED WITHOUT WRITTEN AUTHORIZATION OF THE ENGINEER OF RECORD. ANY DEVIATION FROM THE CONTRACT DOCUMENTS, AND CORRECTION THEREOF, IS THE RESPONSIBILITY OF THE CONTRACTOR. SUBSEQUENT DOCUMENTATION REQUESTS TO BUILDING ENGINEER OF RECORD FROM GENERAL CONTRACTOR SHALL INCLUDE EVALUATOR OF DEVIATIONS BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

DESIGN CRITERIA

- A. FLORIDA BUILDING CODE 6TH EDITION 2017, AS ADOPTED AND SUPPLEMENTED BY LOCAL REGULATIONS.
B. ASCE 7-16, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
C. ACI 318-14, STRUCTURAL CONCRETE BUILDING CODE
D. AISI MANUAL OF STEEL CONSTRUCTION, 14TH EDITION.
E. NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS, 2015 AND STRIP TO
F. HUD-15, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION
G. SERVICEABILITY AND DEFLECTION CRITERIA PER GOVERNING COMMERCIAL DESIGN STANDARD.

DESIGN LOADS

- A. ROOF LIVE LOADS: 20 PSF
B. DEAD LOADS (d):
1. ROOF: 16 PSF, INCLUDING STRUCTURE
2. SIGN: 20 PSF, INCLUDING STRUCTURE
3. COLUMNS & TRUSSES
C. UPLIFT LOAD COMBINATIONS (d):
1. ROOF: 10 PSF, INCLUDING STRUCTURE
2. SIGN: 10 PSF, INCLUDING STRUCTURE
3. COLUMNS & TRUSSES: STEEL SELF WEIGHT (490 PCF)
D. WIND LOADS:
1. WIND DESIGN (ASCE 7-10)
2. ULTIMATE DESIGN WIND SPEED, VULT: 140 MPH
3. NOMINAL DESIGN WIND SPEED, Vnom: 120 MPH
4. MIN. SITE SPECIFIC WIND SPEED, Vmin: 130 MPH
5. RISK CATEGORY: II
6. WIND EXPOSURE: B
7. ENCLOSURE CLASSIFICATION: OPEN
8. INTERNAL PRESSURE COEFF. +/-: -0.9
E. DESIGN LOAD-BEARING VALUES OF SOIL: 2800 PSF

0300 SUBMITTALS

- A. SHOP DRAWINGS (DATA TO BE SUBMITTED FOR APPROVAL):
1. STRUCTURAL STEEL SHOP DRAWINGS (INCLUDING STEEL JOISTS AND GIRDERS)
a. ERECTION DRAWINGS
b. PRICE DRAWINGS
c. METAL DECK DRAWINGS
d. PREP PROCEDURE AND PRIMER MATERIAL
e. CURRENT HOLDERS CERTIFICATIONS
2. CONCRETE
a. MIX DESIGN
b. MATERIAL CERTIFICATES
c. HISTORICAL TESTING BACKGROUND
3. CONCRETE REINFORCING SHOP DRAWINGS
a. PLACEMENT DRAWINGS
b. FABRICATION AND BENDING DETAILS
B. SEE SECTION 01023 IN THE PROJECT MANUAL AND SPECIFICATIONS FOR THE LIST OF REQUIRED STRUCTURAL SUBMITTALS; SHOP DRAWINGS
C. SEE SECTION 01052.14 "SHOP DRAWINGS" IN THE PROJECT MANUAL AND SPECIFICATIONS FOR SUBMITTAL SCHEDULE REQUIREMENTS.
D. SHOP DRAWING REVIEW IS FOR GENERAL INFORMATION WITH THE EXCEPT CORRECTIONS OR COMMENTS MADE ON THE DRAWINGS DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE PLANS AND SPECIFICATIONS. CORRECTIONS OR COMMENTS DO NOT AUTHORIZE AN INCREASE IN THE CONSTRUCTION BUDGET.
E. APPROVAL OF SHOP DRAWINGS DOES NOT INDICATE ACCEPTANCE OF DEVIATIONS FROM CONTRACT DOCUMENTS OR PREVIOUS SHOP DRAWING REVIEW, UNLESS SPECIFICALLY NOTED THEREON BY THE ENGINEER OF RECORD.
F. ALL CHANGES TO THE CONCEPT SHOWN IN CONTRACT DOCUMENTS SHALL BE SUBMITTED IN WRITING AND APPROVED BY THE ARCHITECT AND ENGINEER PRIOR TO CUTTING SHOP DRAWINGS. ALL SUCH CHANGES SHALL BE "BUBBLED" ON THE SHOP DRAWINGS AND REFERENCED TO THE PROPER RFI.
SUBMITTALS SHALL CONFORM TO THE REQUIREMENTS OF THE CONTRACT DRAWINGS (SEE ITEM SCHEDULE FOR EXCEPTIONS). CONFORMING OR NON-REVIEWED SUBMITTALS WILL BE OBTAINED WITHOUT REVIEW.
1. SHOP DRAWINGS SHALL BE "APPROVED", SIGNED AND DATED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL TO ENGINEER AND ARCHITECT OF RECORD.
2. SHOP DRAWINGS SHALL NOT CONTAIN REPRODUCTIONS OF THE CONTRACT DRAWINGS.
H. PROVIDE COPIES OF MANUFACTURERS LITERATURE FOR ALL MATERIALS AND PRODUCTS USED IN CONSTRUCTION ON THE PROJECT.

0301 EARTHWORK / FOUNDATION

- A. FOUNDATION DESIGN IS BASED UPON THE FOLLOWING SOILS REPORT: COMPANY NAME: NATIVE GEOLOGICAL, INC DATE: JUNE 12, 2011 NATIVE GEOLOGICAL PROJECT NO. R0383.0 THE DESIGN ALLOWABLE SOIL BEARING PRESSURE IS LISTED IN THE DESIGN LOADING CRITERIA.
B. SEE SECTION 02001-04 IN THE PROJECT MANUAL AND SPECIFICATIONS FOR EARTHWORK TO INCLUDE BUT NOT LIMITED TO:
1. PREPARING AND GRADING SUBGRADINGS FOR SLABS-ON-GRADE
2. EXCAVATING AND BACKFILLING FOR BUILDINGS AND STRUCTURES
3. DRAINAGE AND MOISTURE CONTROL. FILL COARSE FILL FOR SLABS-ON-GRADE
4. EXCAVATING AND BACKFILLING TRENCHES WITH 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 LEVEL LIFTS NOT EXCEED 12" LODGE THICKNESS AND COMPACTED TO A MINIMUM OF 95% OF THE 2003 MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM SPECIFICATION D-1557.
D. IN-PLACE DENSITY TESTS SHALL BE PERFORMED BY AN EXPERIENCED ENGINEERING TECHNICIAN. TESTS SHALL BE PERFORMED FOR EACH 2,000 SQUARE FEET, IN EVERY COLUMN FOOTING LOCATION AND EACH SHIP 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 BELOW 6'-0" DEPENDING BUOYANCY CONDITIONS ON FOOTINGS.
F. CAUTION SHOULD 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.

0303 CAST-IN-PLACE CONCRETE

- A. SEE SECTION 03031 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:
1. GENERAL REQUIREMENTS
a. SUBMITTALS
b. QUALITY ASSURANCE / CODE REQUIREMENTS
c. EXECUTION OF WORK REQUIREMENTS
d. SHORING
e. VAPOR RETARDER
f. JOINTS
g. PLACEMENT / FINISHING
h. CURING
i. QUALITY CONTROL - TESTING REQUIREMENTS
2. SUMMARY OF PROJECT MANUAL AND SPECIFICATIONS SECTION 03031-02 PRODUCTS
1. CONCRETE STRENGTH: 4,000 PSI
2. STEEL REINFORCEMENT: 60,000 (ASTM A615)
3. PLAIN STEEL WIRE FABRIC: ASTM A185, FLAT SHEETS
B. LAP SPLICE REINFORCEMENT LENGTH
LAP SPLICES (INCHES)
REIN. SIZE CONCRETE STRENGTH
#3 16
#4 18
#5 24
#6 30
#7 36
#8 48
#9 60
REF: CRS CLASS B, F140 KSI, UNDOTATED SHAS, NORMAL WEIGHT 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 POUR UNLESS SHOWN ON THE STRUCTURAL DRAWINGS. THE ENGINEER OF RECORD SHALL APPROVE ALL DEVIATIONS OR ADDITIONAL JOINTS IN WRITING.

0320 STRUCTURAL STEEL

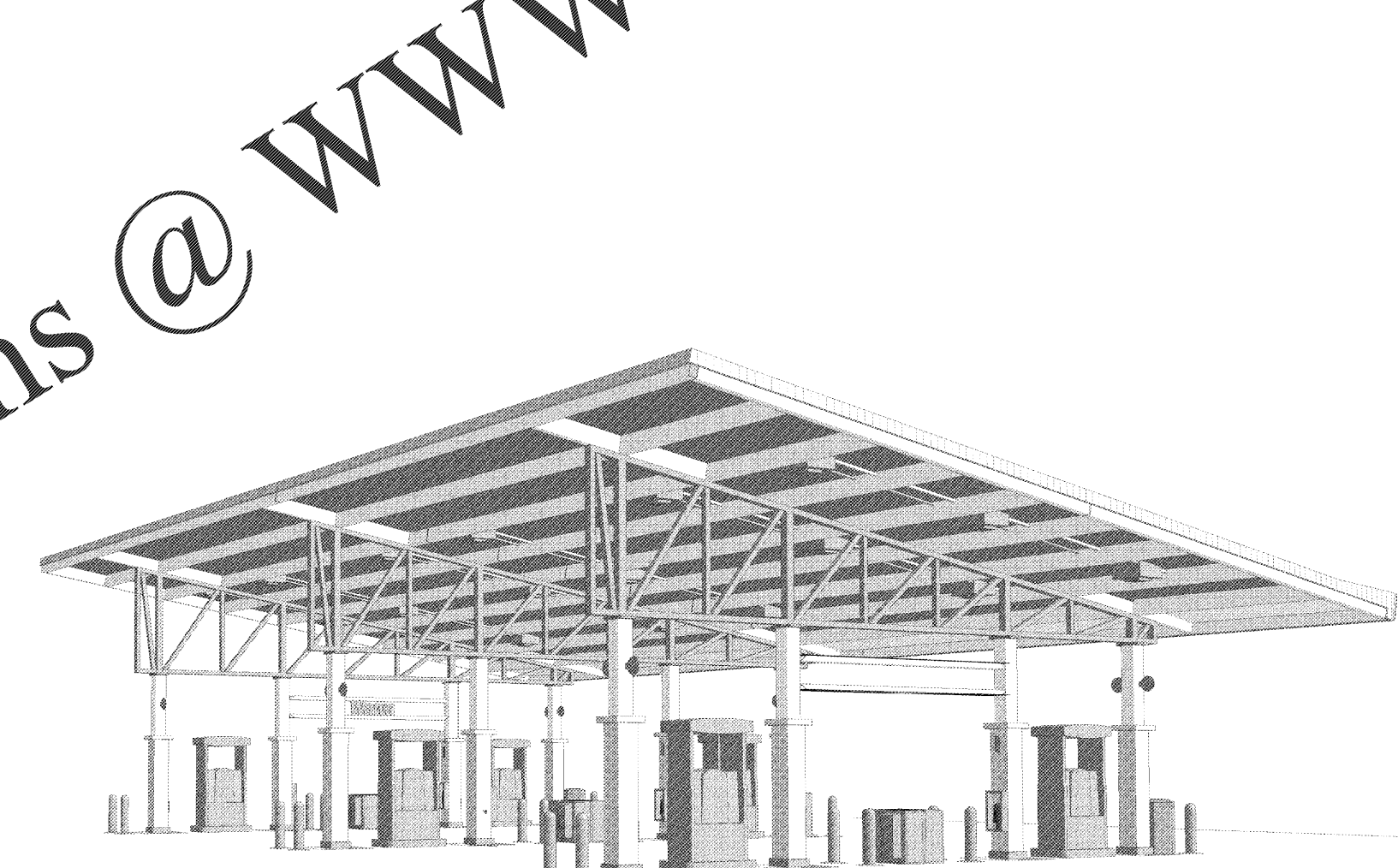
- A. SEE SECTION 0320 IN THE PROJECT MANUAL AND SPECIFICATIONS TO INCLUDE BUT NOT LIMITED TO:
1. GENERAL REQUIREMENTS
a. FABRICATOR REQUIREMENTS
b. SUBMITTALS
c. COORD. REQUIREMENTS
2. PRODUCT / MATERIAL REQUIREMENTS
a. FABRICATION
b. EXECUTION
3. QUALITY ASSURANCE REQUIREMENTS (INSPECTIONS & TESTING)
B. SUMMARY OF PROJECT MANUAL AND SPECIFICATIONS 0320 PRODUCTS
1. MATERIALS:
a. W SHAPES: ASTM A992 (50 KSI)
b. TUBE SHAPES: ASTM A500 OR B (48 KSI)
c. PIPE SHAPES: ASTM A53, OR B
d. CHANNELS AND ANGLES: ASTM A588 (50 KSI)
e. FLATERS: ASTM A1011
f. BOLTS: ASTM A325
g. ANCHOR BOLTS (FROGS): ASTM F1554, GRADE 55, G11
h. ANCHOR BOLT NUTS: HEAVY HEX HEAD ASTM A588
i. ANCHOR BOLT WASHERS: ASTM F436
j. ELECTRODES FOR WELDING: AWS CODE E70XX
2. TEMPLATES SHALL BE PROVIDED FOR ALL ANCHOR BOLTS / FROGS CAST IN CONCRETE.
C. GALVANIZED STEEL MEMBERS INDICATED ON PLANS:
1. GALVANIZE STEEL MEMBERS, FABRICATIONS AND ASSEMBLIES AFTER FABRICATION BY THE HOT-DIP PROCESS IN ACCORDANCE WITH ASTM A123
2. COATING REQUIREMENTS:
a. CONFORM TO PARAGRAPH 6.1 OF ASTM A123, TABLE 1 OF ASTM A153, OR TABLE 2 OF ASTM A153 AS APPROVED.
b. SURFACE FINISH: CONTINUOUS, ADHESIVE, AS SMOOTH AND EVENLY DISTRIBUTED AS POSSIBLE AND FREE FROM ANY DEFECT DETRIMENTAL TO THE END USE OF THE COVERED ARTICLE.
c. ADHESION: WITH INSURE NORMAL HANDLING CONSISTENT WITH THE NATURE AND PURPOSES OF THE COATING AND NORMAL USE OF THE ARTICLE.
3. REPAIR OF DAMAGED COATING: REPAIR DAMAGED AREAS BY WELDING, FLAME CUTTING OR DURING HANDLING, TRANSPORT OR ERECTION BY ONE OF THE APPROVED METHODS IN ACCORDANCE WITH ASTM A149 WHENEVER DAMAGE EXCEEDS 315 IN WIDTH. MINIMUM THICKNESS REQUIREMENTS FOR THE REPAIR ARE THOSE DESCRIBED IN ASTM A123 SECTION 6.2, CURRENT EDITION.
E. CONNECTIONS UNLESS OTHERWISE NOTED:
1. TIGHTEN BOLTS BY THE "SMUG-TIGHT" METHOD
2. FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIA MINIMUM HIGH-STRENGTH BEARING TYPE BOLTS (A325N) WITH THREADS ASSIGNED TO BE INCLUDED IN SHEAR PLANES
F. CORNUT UNDER BEARING PLATES SHALL BE NON-METALLIC, NON-SHRINK TYPE WITH A COMPRESSIVE STRENGTH OF AT LEAST 5000 PSI WHEN BEARING ON 3000 PSI CONCRETE AND 8000 PSI WHEN BEARING ON 4000 PSI CONCRETE.
G. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED OR OTHERWISE PROTECTED.
H. ALL STEEL EXPOSED TO SOIL SHALL BE ENCASED IN CONCRETE OR COATED PER ASPHALTIC DAIBED CORROSION NOTE.

0900 COATINGS FOR STEEL

- A. SEE SPECIFICATIONS FOR GENERAL REQUIREMENTS, PRODUCTS, AND EXECUTION OF WORK.
B. ASPHALTIC BASED CORROSION RESISTANCE COATINGS SHALL BE MADE WITH AN ASPHALT BASE EMULSION COATING SYSTEM PER ASTM D1187.
C. APPLY A MINIMUM 1/16" THICK COATING IN TWO APPLICATIONS.
D. COATING TO BE APPLIED ON ALL SIDES OF MEMBERS -- TO INCLUDE STEEL TO BE ADJACENT TO CAST-IN-PLACE CONCRETE.
E. COAT STRUCTURAL ANCHOR BOLTS, WELDS, AND ALL COMPONENTS IN THE AFFECTED AND DEFINED AREA.
F. ALL STEEL AND STEEL COMPONENTS (I.E., BASE PLATES AND ANCHOR BOLTS) EXPOSED TOP SOIL SHALL BE COATED FROM THE FOUNDATION (LOWEST LEVEL) UP TO 8' ABOVE THE SLAB OR FINAL GRADE - WHICHEVER IS GREATER.
STRUCTURAL INSPECTION
A. THE CONTRACTOR OR OWNER SHALL EMPLOY A QUALIFIED INDEPENDENT INSPECTION AGENCY THIS AGENCY (REFERRED TO AS INSPECTOR HEREIN) SHALL BE RESPONSIBLE FOR VERIFYING THAT PROJECT STRUCTURAL WORK IS ACCOMPLISHED IN CONFORMANCE WITH THE CONTRACT DOCUMENTS.
B. DURATION AND FREQUENCY OF JOB VISITS SHALL BE SUFFICIENT FOR THE INSPECTOR TO STATE AT THE COMPLETION OF THE PROJECT THAT THE STRUCTURAL WORK IS ACCOMPLISHED AND ITS RELATED ELEMENTS HAVE BEEN ERECTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. SPECIFIC SYSTEMS TO BE INSPECTED INCLUDE:
1. FOUNDATION REINFORCING & CONCRETE
2. STRUCTURAL STEEL
3. PRE-ENGINEERED METAL PANEL DECKING
4. PRE-ENGINEERED LAM PANEL DECKING
C. THE FOREGOING LIST IS NOT INTENDED TO BE ALL INCLUSIVE. THE INSPECTOR SHALL USE HIS PROFESSIONAL JUDGEMENT AND HIS KNOWLEDGE OF THE JOB SITE CONDITIONS AND THE OFFICIAL CONTRACT DOCUMENTS. THE INSPECTOR WILL NOT REPLACE THE QUALITY CONTROL PERSONNEL OF THE CONTRACTOR.
D. THE INSPECTOR DOES NOT RELIEVE THE CONTRACTORS CONTRACTUAL OR STATUTORY OBLIGATIONS. THE CONTRACTOR HAS THE SOLE RESPONSIBILITY FOR ANY DEVIATIONS FROM THE OFFICIAL CONTRACT DOCUMENTS. THE INSPECTOR WILL NOT REPLACE THE QUALITY CONTROL PERSONNEL OF THE CONTRACTOR.
E. ALL INSPECTION REPORTS SHALL BE FORWARDED BY THE INSPECTOR TO THE ENGINEER AND ARCHITECT OF RECORD.

LIST OF STRUCTURAL ABBREVIATIONS

Table mapping abbreviations to full names for structural components like ANCHOR BOLT, ADDITIONAL, ARIVE-FINISHED FLOOR, etc.



3D View - Perspective

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CLIENT NAME: WAWA STORE 5351-CMM 260 WEST BALTIMORE PIKE JACKSONVILLE, FL 32254

PROJECT NAME: WAWA STORE 5351-CMM 1094 EDGEWOOD AVE. JACKSONVILLE, FL 32254

Revision Schedule table with columns: No., Description, Date.

PROJECT INFO table with fields: PROJECT NO., DATE, DRAWN BY, CHECKED BY.

CS1