STRUCTURAL NOTES
ELECTRONIC VERSIONS OF STRUCTURAL DRAWINGS ARE THE SOLE,
COPYRIGHTED PROPERTY OF HEES & ASSOCIATES, INC. ELECTRONIC
VERSIONS OF DRAWINGS ARE NOT TO BE USED OR TRANSFERRED WITHOUT
THE EXPRESS, WRITTEN PERMISSION OF HEES & ASSOCIATES, INC.

GENERAL MOTES: STRUCTURAL DRAWINGS SHALL BE USED IN COMJUNCTION WITH JOB SPECIFICATIONS AND ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND SITE DRAWINGS. CONSULT THESE DRAWINGS FOR DEPRESSIONS, AND OTHER DETAILS NOT SHOWN ON STRUCTURAL DRAWINGS.

DIMENSIONS AND CONDITIONS MUST BE VERIFIED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH THE AFFECTED PART OF THE WORK.

<u>DESIGN LOADS:</u>
THE STRUCTURAL SYSTEM FOR THIS BUILDING HAS BEEN DESIGNED IN
ACCORDANCE WITH THE FLORIDA BUILDING CODE, 2017. THE FOLLOWING
SUPERIMPOSED LOADINGS HAVE BEEN UTILIZED:

FENCE DEAD LOAD - SELF WEIGHT

WIND:

Vult = 140 MPH, Vand =108 MPH.

EXPOSURE C, RISK CATEGORY I,

C₂= 1.1

PASD= 35.0 pmf. OF SOLID AREA

PAGE 300 PRIO 9 SULL MEAN SHOW A SESSION AS SESSION AS

SHOP DOWNERS FOR ALL STRUCTURAL ELEMENTS SHALL BE SUBMITTED TO HAN MITH TO DOWNERS DOWNERS. MANAGEMENT AND THE STRUCTURAL STRUCTURAL

THERE SHALL BE NO COVATION FROM THESE STRUCTURAL CONSTRUCTION
THERE SHALL BE NO COVATION FROM THE SECRETARY CONTROL THE SECRETARY CHANGES THE SECRETARY OF A RESISTER OF A PROPERTY OF SUBMITTED WITHOUT THE PROPER DOCUMENTATION FROM THE SECRETARY CHANGES THE SECRETA

PROPOSED BY A DELEGADA DIMENSION.

THIS INCLUDES BUT, IN FOT JUMPIN DO CARRON PREER CONCRETE.

THE STRUCKS BUT AND THE STRUCKS BUT AND THE STRUCKS BUT AND THE STRUCKS. IT WILLIAMS STRUCKS, IN THE STRUCKS BUT AND THE STRUCKS. ADMINISTRATION OF THE STRUCKS BUT AND THE

SUBMITTALS SHALL CLEARLY IDENTIFY THE SPECIFIC PROJECT AND APPLICABLE CODES, LIST THE DESIGN CRITERIA, AND SHOW ALL DETAILS AND PLANS RECESSARY FOR PROPER FARRICATION AND INSTALLATION. CALCULATIONS AND SHOP DRAWINGS SHALL IDENTIFY SPECIFIC PRODUCT UTILIZED. GENERIC PRODUCTS WILL NOT BE ACCEPTED.

UNIZED. GENERO PRODUCTS WILL NOT BE ACCUPTED. SHOP DIMWINGS AD CALCULATIONS SMALL BE PREPARED UNDER THE DIRECT SUPERNISON AND CONTROL OF THE DIZEATED ENGINER. SUPERNISON AND CONTROL OF THE DIZEATED DRICK. SUPERNISON AND CONTROL OF THE DIZEATED DIRECT WAS AND CONTROL OF THE DIZEATED DIRECT WAS AND CONTROL OF SHALL DRICK. SUPERNISON AND CONTROL OF SHALL DRICK. SUPERNISON AND CONTROL TO THE SHALL DRICK THE MIPRESSED SFAL NO DESCRIPTION FOR DIZEATED DIRECT WAS AND CONTROL THE PROPERTY OF SHALL DRICK. SHALL DRICK THE MIPRESSED SFAL NO DESCRIPTION OF DEPOSITION OF THE PROPERTY OF THE PROPE

DRAWINGS PREPARED SOLELY TO SERVE AS A GUIDE FOR FABRICATION AND INSTALLATION (SUCH AS REINFORCING STEEL SHOP DRAWINGS OR STRUCTURAL STEEL ERECTION DRAWINGS) AND REQUIRING NO ENGINEERING DO NOT REQUIRE THE SEAL OF A DELECATED ENGINEERING

CATALOG INFORMATION ON STANDARD PRODUCTS DOES NOT REQUIRE THE SEAL OF A DELEGATED ENGINEER.

REVIEW BY THE STRUCTURAL ENGINEER OF RECORD OF SUBMITTALS IS

- THAT THE SPECIFIED STRUCTURAL SUBMITTALS HAVE BEEN FURNISHED.
- THAT THE STRUCTURAL SUBMITTALS HAVE BEEN SIGNED AND SEALED BY THE DELEGATED ENGINEER.

- THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND HAS USED THE SPECIFIED STRUCTURAL CRITERIA. (NO DETAILED CHECK OF CALCULATIONS WILL BE MADE).
- d) THAT THE CONFIGURATION SET FORTH IN THE STRUCTURAL SUBMITTALS IS CONSISTENT WITH THE CONTRACT DOCUMENTS. (NO DETAILED CHECK OF DIMENSIONS OR QUANTITIES WILL BE MADE).

SUBMITTALS NOT MEETING THE CRITERIA LISTED IN THIS SECTION WILL NOT

FOUNDATIONS: SEE THE FOLLOWING REPORT FOR COMPLETE GEOTECHNICAL RECOMMENDATIONS AND INSTALLATION PROCEDURES.

THIS REPORT SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS FOUNDATION DESIGN IS BASED ON A SOIL BEARING PRESSURE OF 2000 paf.

FORMINGIN AND SHORING:
NO STRUCTURAL CONCRETE SHALL BE STRIPPED UNTIL IT HAS REACHED
AT LEAST WO HIRDS OF THE 2D DAY DESIGN STRENGTH, DESIGN,
EXECUTION AND TREASURE OF ALL PORMINGIN, SHORES AND GESTIONES
SHOWN THE REQUIREMENTS SET FORTH IN AND SHOMANDS 374 AND
301.

PLUMENC SIENCES
SLENK LOCATION AND SIZES MUST BE APPROVED BY THE ENGINEER
SLENK LOCATION AND SIZES MUST BE APPROVED BY THE ENGINEER
DEPOSITION OF THE MANUAL SIZES AND THE ENGINE OF STREAM
BETWEEN SLEDVES, WHICHEVER IS GREATER. SLEEVES OR GROUPS OF
SLEEVES IS HOWN IN DOMERT BAND LORGES SHALL BE TREATED AS A
SLAD OPENING AND REPROVED PER TYPICAL OPENING REINFORCING
DEFAULS.

DETAILS.

DEBEDDED CONDUITS.

LOCATIONS AND SIZES OF CONDUIT HUST BE APPROVED BY THE ENGINEER FOR THE ENGINEER FOR THE ENGINEER FOR THE PROPERTY OF THE STEELENSTHEN OF THE PROPERTY OF THE PR

RENIFICATION STEELS

RENIFICATION AND STEELS

SOLE AND REST MOST SOLD IN ACCORDANCE WITH THE TYPICAL

BEDINDING DURANA MAD PLICING DETAILS OF AS STANDARDS AND

SPECIFICATIONS. SECURE APPROVAL OF SHOP DRAWINGS PRIOR TO

COMMERCION FABRICATION.

WELDED WIRE FABRIC:
10 CONFORM TO SAM A-185, FREE FROM OIL, SCALE AND RUST AND
PLACED IN ACCORDANCE WITH THE TYPICAL FLACING BERILS OF ACI
STATE TO AND SPECIFICATIONS, WIREWALL PLACING BERILS OF ACI
STATE OF THE THE TYPICAL FLACING BERILS OF THE THE TYPICAL FLACING BERILS OF THE THE TYPICAL FLACING BERILS OF THE THE TYPICAL FLACING BERILD STREETS IN THE TYPICAL FLACING BE

CONCRETE: SHALL BE PER AN APPROVED MIX DESIGN PROPORTIONED TO ACHIEVE A STRENGTH AT 28 DAYS AS LISTED BELOW WITH A PLASTIC AND WORKABLE

3000psi FOR ALL CONCRETE

CONCRETE SHALL BE PLACED AND CURED ACCORDING TO ACI STANDARDS AND SPECIFICATIONS.

NO STEPRISHOUSE.

SIGNAT PROPOSED MY DESIGN WITH RECENT FIELD CALIDIDE OR LASS TESTS FOR REVIEW PROP TO USE. MS SHALL BE UNDULLY IDENTIFIED MY ME THAN THE OWNER OF LASS THAN LESS HAVE SHALL BE LINGUIST. THE STAN THAN THE STAN THAN THE SHALL BE LINGUIST. THE SHALL BE LINGUIST. THE SHALL BE THE SHALL BE THE SHALL BE SHALL BE SHALL BE THE SHALL BE THE SHALL BE SHALL BE SHALL BE THE SHALL BE THE SHALL BE SHALL BE SHALL BE THE SHALL BE THE SHALL BE SHALL BE SHALL BE THE SHALL BE THE SHALL BE SHALL BE THE SHALL BE THE SHALL BE SHALL BE THE SHALL BE THE SHALL BE SHALL BE SHALL BE THE SHALL BE THE SHALL BE SHALL BE SHALL BE THE SHALL BE THE SHALL BE SHALL BE SHALL BE THE SHALL BE THE SHALL BE SHALL BE SHALL BE THE SHALL BE THE SHALL BE THE SHALL BE THE SHALL BE SHALL BE THE SHALL BE SHALL

APPROVIL OF THE ENGINEER.

CONSTRUCTION OF CONTROL, JOINTS SHALL BE PROVIDED IN SLARS ON GRADE SO THAT THE MAXIMUM AREA OF THE SLAR BETWEEN JOINTS SHALL BE 22D SOURME PEET, OR AS SHOWN ON THE PLANS. SWO CHIEF SHALL BE ASSESSED AS SHOWN ON THE PLANS SWO CHIEF SHALL BY SHALL

CONCRETE UN DESIGNS SHALL INCLUDE A WRITTEN DESCRIPTION INDICAINING WHERE EACH PARTICULAR MX IS TO BE PLACED WITHIN THE STRUCTURE. BY ACCEPTED, PAR ROCK PUMP MX USE IS LIMITED VERTICAL ELEMENT POURS AND BEAM POURS LESS THAN 60 LINEAL FEET PER POUR.

CONCRETE DESIGN MIX SUBMITTALS SHALL INCLUDE TESTED, STATISTICAL BACK-UP DATA AS PER CHAPTER 4 OF ACI 301. WATER/CEMENT RATIO FOR CONCRETE AT EXTERIOR BALCONIES OR CONCRETE EXPOSED TO WEATHER SHALL NOT EXCEED 0.40 BY WEIGHT. CONCRETE TESTING:
AN INDEPENDENT TESTING LABORATORY SHALL PERFORM THE FOLLOWING TESTS ON CAST IN PLACE CONCRETE:

SOFT OF THE CONTROLL OF THE CO 1 AGE AS FOLLOWS: 1 AT 7 DAYS 2 AT 28 DAYS

ONE ADDITIONAL RESERVE CYLINDER TO BE TESTED UNDER THE DIRECTION OF THE ENGINEER, IF REQUIRED. IF 28 DAY STRENGTH IS ACHEVED, THE ADDITIONAL CYLINDER(s) MAY BE DISCARGED.

EDELENATIONS
OF PREMICTORS SHALL BE MADE IN ANY STRUCTURAL MIDMERS OTHER THAN THOSE LOCATED ON THE STRUCTURAL DRAWNESS WITHOUT PREVIOUS APPROVAL OF THE EDINDERS. CONTRICTOR SHOULD SUBMIT SAME DOMINISS INDICATION SHAT CONCENTRATION OF PIPES, OPENINGS OR DOMINISS PROBLEM ON THE STRUCTURAL DRAWNESS PRIOR TO THE STRUCTURAL DRAWNESS PRIOR TO THE STRUCTURAL DRAWNESS PRIOR TO

COUNTEL FORMS.

STENDINGS, STED.

WIDE FLANGE SHAPES SHALL CONFORM TO ASTM A-572 OR A-592

GRAZE GO AND ORDER SHAPES SHALL CONFORM TO ASTM AGS AND "THE

CREATER SHAPES SHALL CONFORM TO ASTM AGS AND "THE

STELL FOR BULLDINGS" BY THE AMERICAN INSTITUTE OF STELL

CONSTRUCTION, No. SHOP CONNECTIONS TO BE WEDD (UNILIZAN

ETWAX LECTRICOLS) AND READ CONNECTIONS TO BE BOUTD, LIVES

SHOP COAL FAUL ON SHEED LOCK HE OVER OF A WATCH PARK TO ASTMER

EXCEPT WHERE ONLYMIZED IS INDICATED ON THE DRAWNINGS.

STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500, GRADE B, Fy = 46 kai. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53 GRADE B, TYPE E OR S, Fy = 35 kai. BEAM CONNECTIONS TO TUBE COLUMNS SHALL BE ALS.C. THRU-PLATE TYPE UNLESS SHOWN OTHERWISE.

SHALL BE ALS.C. THRU-PLAIR TYPE UNLESS SHOWN OTHERWISE.

BOUTED CONNECTIONS SHALL CONSTIT OF MINIMINE, N. KICH DIMETER
ASTM A-320M HIGH STRENGTH BOLTS. BRUN CONNECTIONS SHALL BE
DESCRIDE OF A ROPELSSOON, BOOKER LICENSED AND INSURED TO
DESCRIBE THE SHAPPING SHAPPIN

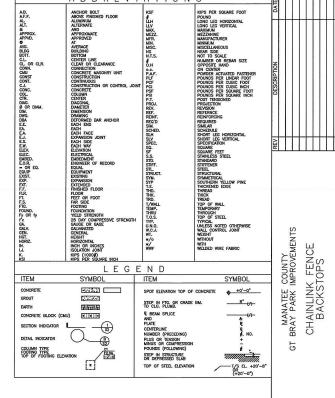
WEDDING SHALL BE DONE BY WEDDERS WITH CURRENT CERTIFICATION WISHEN SAME AT SERVICE ELECTRODE FOR SHOP WEDDING AND STREET, AND ETCH. AND ETCH SERVICE MY PHOROCOME LECTRODES FOR ALL WEDDING OF HIGH STRENGTH STEELS AND FOR FIELD WEDDING.

WELDS SHOWN ON STRUCTURAL DRAWINGS ARE MINIMUM DESIGN REQUIREMENTS. THE FABRICATOR'S SHOP DRAWINGS SHALL REFLECT WELDS IN ACCORDANCE WITH AWS REQUIREMENTS.

ALI FULL PENETRATION GROOVE WELDS SHALL BE INSPECTED BY ULTRASONIC TESTING. TWENTY-FIVE PERCENT OF THE REMAINING WELDS SHALL BE INSPECTED AT RANDOM UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

UNLESS NOTED OTHERWISE ON THE DRAWINGS, GROOVE WELDS SHALL BE FULL PENETRATION.

PROVIDE FILLET WELDS AT CONTACT POINTS BETWEEN STEEL MEMBERS SUFFICIENT TO DEVELOP THE ALLOWABLE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS DETAILED OTHERWISE ON THE DRAWNINGS.



ABBREVIATIONS



CHAINLINK FENCE BACKSTOPS

This item has been electronically signed and seded by Karl F. Hees, P.E. on 09/24/19 using a Digital Signature. Printed copies of this document are not considered eigned and seeded and the signature to the signature of the considered larged and seeded and the signature of the signature. Karl F Digitally signed by Karl F Hees Date: 2020.07.24 15:30-51-04'00'

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TO THE BEST OF THE ENGINEER-OF-RECORD'S KNOWLEDGE AND ABILITY, THE COMPLETED STRUCTURE DEPICTED ON THESE DOCUMENTS COMPLES WITH THE APPLICABLE MINIMUM BUILDING CODES.

NOTION OF THESE DEMANDS. LAYOUT THE BULDING USING ALL APPLICABLE CONTRACT DRAWNINS, BULDING USING ALL APPLICABLE CONTRACT DRAWNINS, BULDING DIAGNOS AND THE LOCATION OF ALL STRUCTURAL ELEMENTS INCLUDING BUT NOT LIMITED TO EXPRESSIONS SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWNINS PRIOR TO LAYOUT OF THE BULDING. RESOLVE ANY DISCREPANCES.

D.E.M. 07-24-20 2014094

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