I. THESE DRAWINGS ARE INCOMPLETE UNLESS ACCOOMPANIED BY THE CONTRACT SPECIFICATIONS.

2. THE STRUCTURAL DRAWINGS SHALL BE USED IN CONJUCTION WITH ALL OTHER DRAWINGS, CONTRACTOR SHALL COORDINATE THE WORK OF OTHER TRADES INCLUDING, BUT NOT LIMITED TO, THE REQUIREMENTS FOR SLEEVES, INSERTS, HOLES, HANGERS AND ANCHORS.

3. THE GENERAL SCOPE OF THIS STRUCTURAL WORK IS A TWO-STORY TERMINAL BUILDING WITH A PARTIAL MECHANICAL MEZZANINE SITTING ON A CONCRETE PIER WHICH IS DESIGNED BY P/N/D incorporated, Consulting Engineers.

4. REPORT DISCREPANCIES IN DIMENSIONS BETWEEN DIFFERENT DRAWINGS TO THE OWNER'S REPRESENTIVE PRIOR TO BEGINNING WORK IN AREAS THAT WILL BE AFFECTED.

5. DETAILS ENTITLED OR NOTED AS "TYPICAL" APPLY NOT ONLY WHERE SPECIFICALLY INDICATED OR REFERENCED, BUT ALSO IN ALL OTHER CASES WHERE THE MATURE OF THE CONSTRUCTION REQUIRES THEIR USE. DETERMINE APPLICABILITY OF TYPICAL DETAILS FROM DESCRIPTIVE TITLES OR FROM THE SIMILARITY OF A CONSTRUCTION CONDITION TO ANOTHER CONDITION WHERE THE DETAIL IS SPECIFICALLY INDICATED OR REFERENCED.

6. ELEVATIONS ON THE STRUCTURAL DRAWINGS ARE DENOTED AS (+X'-X"), REFERENCED TO THE FINISHED FIRST FLOOR ELEVATION DATUM = 0'-0". ACTUAL FINISHED FIRST FLOOR ELEVATION (16.871) N.G.Y.D.

1. VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS, ETC., NECESSARY FOR THE PROPER CONSTRUCTION AND ALIGNMENT OF THE NEW WORK RELATIVE TO THE EXISTING STRUCTURE. TAKE ALL MEASUREMENTS NECESSARY FOR PROPER FABRICATION, ALIGNMENT, AND INSTALLATION OF STRUCTURAL MEMBERS AND COMPONENTS.

8. REPODUCTION OF CONTRACT DRAWINGS SHALL NOT BE USED AS SHOP DRAWINGS UNDER ANY CIRCUMSTANCE.

9. ALL ITEMS SHOWN IN THESE DRAWINGS ARE NEW CONSTRUCTION UNLESS SPECIFICALLY NOTED AS EXISTING.

10. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTED AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OF INCOMPLETE CONNECTIONS, DURING ERECTION,

DESIGN CRITERIA

I. STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE FOLLOWING CODES AND SPECIFICATIONS:

A). BACO NATIONAL BUILDING CODE 1999 B). ACI 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE. C). ASCE 1, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES. D). MANUAL OF STEEL CONSTRUCTION ALLOWABLE STRESS DESIGN NINTH EDITION.

2. DESIGN LOAD CRITERIA: LIVE LOADS:

FIRST FLOOR 100 PSF 200 PSF MEZZAZINE STAIR 100 PSF

NOTE: LIVE LOAD REDUCTION WAS NOT USED IN THE DESIGN OF THIS STRUCTURE.

C) WIND LOAD: BASIC WIND SPEED, Y 85 MPH WIND IMPORTANCE FACTOR, IW 123 WIND EXPOSURE INTERNAL PRESSURE COEFFICIENTS, GCpi +/- 0.25

SNOW LOAD:

GROUND SNOW LOAD, Pa SNOW EXPOSURE FACTOR, Ce SNOW LOAD IMPORTANCE FACTOR, IS THERMAL FACTOR, Ct

SEISMIC HAZARD EXPOSURE GROUP PEAK VELOCITY-RELATED ACCELERATION AV Ø.1 PEAK ACCELERATION Aa SIET CLASS SEISMIC FERFORMANCE CATEGORY CONCENTRICALLY BRACED FRAMES

RESPONSE MODIFICATION FACTOR (R) DEFLECTION AMPLIFICATION FACTOR (Cd)

EQUIVALENT LATERAL FORCE PROCEDURE ANALYSIS PROCEDURE

THE RECEIVING STATION IS MOSTLY SUPPORTED BY CONCRETE SHALLOW FOOTINGS. COLUMNS ALONG THE SOUTH-EAST SIDE OF THE BUILDING ARE SUPPORTED BY STEEL PILES. THE SHALLOW FOUNDATION DESIGN IS BASED ON THE NOVEMBER 17, 2003 MEMORANDUM FROM JAMES WEAVER, PE OF HALEY & ALDRICH. SHALLOW

FOOTINGS ARE TO SIT ON WELL COMPACTED STRUCTURAL FILL WITH MAXIMUM BEARING PRESSURE 2000 PSF. PRIOR TO INSTALLATION OF FOOTINGS, THE CONTRACTOR SHALL OBTAIN STATEMENT OF APPROVAL FROM THE GEOTECHNICAL ENGINEER THAT CERTIFIES THE EXCAVATION AND SOIL IMPROVEMENT ARE IN COMPLIANCE WITH THE GEOTECHNICAL SPECIFICATION AND THE IN-PLACE CAPACITY

THE STEEL PILE FOUNDATION DESIGN IS IN ACCORDANCE WITH THE DECEMBER 8, 2005 MEMORANDUM FROM JAMES WEAVER, PE OF HALEY \$ ALDRICH. THE 16" DIAMETER STEEL PILE SHALL HAVE A MINIMUM OF 35 KIPS OF ALLOWABLE COMPRESSIVE LOAD, 15 KIPS OF ALLOWABLE TENSION FORCE. THE TOTAL PILE LENGTH IS ESTIMATED 10 FT. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE GEOTECHNICAL ENGINEER TO CERTIFY THAT THE PILE HAS REACHED THE DESIRED STRATUM AND THE DESIGNED CAPACITY.

CONCRETE SLAB ON GRADE

HAS REACHED 2000 PSF.

1. ISOLATION JOINTS MUST BE USED AT JUNCTIONS WITH WALLS AND COLUMNS, USE ?" THICK PREMOLDED JOINTS FULL DEPTH OF SLAB.

!. PLACE CONTROL JOINTS AT CENTERLINE OF COLUMNS. PROVIDE INTERMEDIATE JOINTS IF COLUMN SPACING: IS GREATER THAN 20 FT. IN ANY CASE JOINT SPACING SHALL NOT BE GREATER THAN 15 FT. IN SIDE WALKS TOOLED JOINTS SHALL BE SPACED AS THE WIDTH OF THE SLAB.

3. CONTROL JOINT DEPTH SHALL BE 1' TOOLED FOR SLAB THICKNESS 4' TO 5'. JOINTS SHALL BE SAWED WITHIN 24 HOURS AFTER CONCRETING.

4. CONSTRUCTION JOINT MUST BE PLACED IN THE SLAB WHERE BUILDING EXPANSION JOINTS ARE SHOWN.

5. WHEN CONRETING AND OPERATING ARE CONCLUDED FOR THE DAY, CONSTRUCTION JOINTS SHALL BE FORMED WITH BURKE KEYED KOLD METAL

6. WATERPROOF MEMBRANES, OVERLAPPED 6" AT JOINTS, WITH A PERMEANCE OF LESS THAN 0.3% PERMS IN ACCORDANCE WITH A.S.T.M. E-98 SHALL BE PROVIDED UNDER INTERIOR SLAB. WHERE NO YAPOR BARRIER IS USED, THE SUBGRADE MUST BE DAMPENED WITH WATER IN ADVANCE OF CONCRETING TO FREE WATER STANDING ON THE SUBGRADE NOR ANY MUDDY OR SOFT SPOT IS PERMITTED.

1. ANY STRUCTURAL MEMBER PENETRATING SLAB ON FILL IS TO BE ?" PRE-MOLDED JOINT FILLER COMPLYING WITH ASTM D-1752, TYPE I.

8. PREMATURE FINISHING IS NOT ALLOWED. IMMEDIATE FOLLOWING FLOATING, TROWELING WITH STEEL TROWELS SHOULD BE COMMENCED IF REQUIRED. BROOMING SHALL BE AFTER THE STEEL TROWELING OPERATION.

SLAB FINISH TYPE: INSIDE BUILDING - STEEL TROWELED + OUTSIDE SLAB - BROOMED, UNLESS OTHERWISE NOTED

DESIGN MASONRY ASSEMBLAGE STRENGTH, FIM = 1500 PSI, NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE A MINIMUM OF 1900 PSI.

2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 AND BE MANUFACTURED WITH LIGHTWEIGHT AGGREGATE.

3. MORTAR SHALL CONFORM TO ASTM C 270 TYPE "M" (2500 PSI). GROUT FOR FILLED CELL SHALL CONFORM TO ASTM C476 AND SHALL NOT CONTAIN ADMIXTURES. GROUT SHALL ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI, SLUMP 9 IN.

4. REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 / A615M, GRADE 60 AND SHALL HAVE FABRICATION TOLERANCES IN ACCORDANCE WITH ACI 315. SHOP-FABRICATE REINFORCING BARS WHICH ARE INDICATED TO BE BENT OR HOOKED.

5. PROVIDE 9 GAGE HORIZONTAL REINFORCEMENT AT 16" SPACING LADDER TYPE FOR NON-LOAD BEARING WALL, TRUSS TYPE FOR LOAD BEARING

6. ALUMINUM CONDUITS, PIPES, AND ACCESSORIES SHALL NOT BE EMBEDDED IN MASONRY GROUT, OR MORTAR, UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CEMENT CHEMICAL REACTION OR ELECTROLYTIC REACTION BETWEEN ALUMINUM AND STEEL.

PROVIDE VERTICAL REBARS ACCORDING TO PLAN OR WALL SCHEDULE. SEE "TYPICAL WALL END AND CORNER DETAILS" FOR SPECIAL REINFORCING DETAIL.

8. VERTICAL REINFORCEMENT MUST HAVE A MINIMUM 48 BAR DIAMETER LAP SPLICE. UNLESS OTHERWISE NOTED, CENTER WALL REINFORCEMENT IN BLOCK CELLS. USE NONMETALLIC BAR POSITIONERS.

9. PROVIDE DOWEL REINFORCEMENT IN FOUNDATION OF SAME SIZE AND SPACING AS VERTICAL WALL REINFORCEMENT.

10. PROVIDE A CONTINUOUS BOND BEAM AT TOP OF WALL WITH 2 *5 BARS INSIDE. VERTICAL REBARS SHALL BE DEVELOPED INTO BOND BEAM, UNLESS OTHERWISE NOTED.

11. BRACE TOP OF INTERIOR, NON-LOAD BEARING MASONRY WALLS TERMINATING AT THE UNDERSIDE OF FLOOR OR ROOF STRUCTURE AGAINST OUT-OF-PLANE MOVEMENT IN ACCORDANCE WITH THE "TYPICAL NON-BEARING CMU WALL BRACING" DETAIL.

12. PROVIDE CONCRETE LINTEL AND WINDOW SILL ACCORDING TO SCHEDULES IN TYPICAL OPENING DETAIL

CONCRETE CONSTRUCTION NOTES

. UNLESS NOTED OTHERWISE, CONCRETE STRENGTH SPECIFIED HEREIN IS 28-DAY. NORMAL WEIGHT CONCRETE COMPRESSION STRENGTH. DESIGN SLUMP 15 4 INCHES, +/- 1 INCH. GC SHOULD SUBMIT SIGNED AND SEALED CONCRETE MIX DESIGN BY THE MANUFACTURER TO BEA INTERNATIONAL FOR REVIEW AND APPROVAL.

DESIGN CONCRETE STRENGTH:

A) FILL ON COMPOSITE FLOOR DECK, FILL IN STAIR PANS AND TREADS AND ALL INTERIOR CONCRETE 3500 PSI

B) SLAB ON GRADE: 3000 PSI

C) ALL OTHER CAST-IN-PLACE CONCRETE: 4000 PSI D) GROUT FOR MASONRY FILLED CELL: 3000 PSI

- A MINIMUM OF 5 CONCRETE SPECIMENS SHALL BE TAKEN FROM EVERY 50 CU. YD. OR PORTION THEREOF. SPECIMENS SHALL BE TESTED ACCORDING TO ASTM C-39, ONE AT 3, ONE AT 1, AND 3 AT 28 DAYS.

- CONCRETE COVER:

CONCRETE CAST AGAINST EARTH: 3" FORMED CONCRETE IN CONTACT WITH EARTH: 2" BEAMS AND COLUMNS: 1-1/2" INTERIOR SLAB: 3/4" EXTERIOR SLAB: 1-1/2"

2. CONCRETE DENSITY SHALL BE NORMAL WEIGHT UNLESS SPECIFICALLY OTHERWISE NOTED.

3. CONCRETE REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING TO ASTM A615/A615M, GRADE 60.

4. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185. PROVIDE SHEET-TYPE WELDED WIRE FABRIC. SHEET LAPS SHALL BE TIED AND LAPPED ONE FULL MESH SPACING.

5. CONCRETE REINFORCING STEEL SHALL BE CONTINUOUS UNLESS OTHERWISE INDICATED. CONTINUOUS REINFORCING STEEL SHALL BE LAPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318.

REQUIREMENTS OF ACI 301. 1. CONCRETE REINFORCING STEEL MARKED STANDARD HOOK SHALL HAVE A 90 DEGREE HOOK WITH A MINIMUM EXTENSION BEYOND THE BEND OF 12

6. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE AS INDICATED. IN NO CASE SHALL REINFORCEMENT COVER BE LESS THAN THE

BAR DIAMETERS IN LENGTH, UNLESS OTHERWISE NOTED. STIRRUP, TIE AND 180-DEGREE HOOKS SHALL CONFORM TO THE REQUIREMENTS OF ACI 318.

8. REINFORCING STEEL SHALL BE SPREAD AT SLEEVES, TIEBACKS, RECESSES AND OTHER EMBEDDED ITEMS UNLESS OTHERWISE INDICATED. REINFORCEMENT SHALL NOT BE CUT TO FACILITATE PLACEMENT OF EMBEDDED ITEMS.

9. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED ?" OR AS INDICATED.

10. ALUMINUM SHALL NOT BE PLACED IN DIRECT CONTACT WITH CONCRETE UNLESS EFFECTIVELY COATED OR COVERED TO PREVENT ALUMINUM-CONCRETE REACTION AND ELECTROLYTIC ACTION BETWEEN ALUMINUM AND STEEL.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTIMATING AND SUPPLYING ANY ADDITIONAL CONCRETE REQUIRED TO ACHIEVE SPECIFIED FLOOR FLATNESS CRITERIA.

STEEL NOTES

I. STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE FOLLOWING: A) SQUARE AND RECTANGULAR TS ASTM A 500, GRADE B, Fy = 46 KSI ASTM A 500, GRADE B, Fy = 42 KSI B) ROUND TS ASTM A 992, Fy = 50 KSI C) WIDE-FLANGE SHAPES AND TEES ASTM A 572/ A 572M, GRADE 50 D) CHANNELS AND S-SHAPES E) PLATES AND ANGLES ASTM A 36/ A 36M F) HIGH STRENGTH BOLTS ASTM A 325 G) ANCHOR BOLTS ASTM A 307, GRADE 36 H) THREADED ROD ASTM A 36/ A 36M

1) WELDING ELECTRODES AWS DI.1/D1.1M, ETØXX 2. FIELD CUTTING OF STRUCTURAL STEEL MEMBERS BY ANY TRADE SHALL NOT BE PERMITTED. BOLT HOLES SHALL NOT BE CUT OR ENLARGED BY FLAME CUTTING IN THE FIELD.

3. SHEAR CONNECTIONS FOR BEAMS SHALL BE DESIGNED FOR UNFACTORED (SERVICE) REACTIONS SHOWN ON THE DRAWINGS. WHERE FORCES ARE NOT PROVIDED ON THE DRAWINGS, SHEAR CONNECTIONS SHALL BE DESIGNED THE FULL UNIFORM LOADS AS INDICATED IN THE ALLOWABLE LOAD TABLES OF PART 2 OF THE AISC "MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN", NINTH EDITION. FOR COMPOSITE BEAMS, CONNECTIONS SHALL BE DESIGNED 1.5X THE FULL UNIFORM LOADS AS INDICATED ABOVE UNLESS SHOWN OTHERWISE. HIGH SRENGTH THREADED FASTERNERS ARE REQUIRED FOR ALL CONNECTIONS.

4. BEAMS FRAMING INTO A GIRDER FROM ONE SIDE ONLY SHALL BE MADE WITH DOUBLE ANGLE CONNECTIONS. ALL OTHER CONNECTIONS MAY BE DOUBLE ANGLE CONNECTIONS OR SINGLE PLATE SHEAR CONNECTIONS (DESIGNED FOR A FLEXIBLE SUPPORT CONDITION.), UNLESS INDICATED

5. MOMENT CONNECTIONS SHALL BE DESIGNED FOR THE MOMENT AND SHEAR AS SHOWN IN THE DRAWINGS.

6. FULL PENETRATION AND PARTIAL PENETRATION FIELD WELDS IN MATERIAL OVER 5/16" THICK AND WELDED FIELD SPLICE OF MAIN MEMBERS SHALL BE SUBJUCTED TO NON-DISTRUCTIVE TESTING BY THE INDEPENDENT LABORATORY. ALL BOLTS IN BRACED FRAMES AND BOLTS IN SHEAR CONNECTIONS USED IN CONJUNCTION WITH FULL OR PARTIAL PENETRATION WELDS SHALL BE SLIP CRITICAL TYPE.

1. COMPOSITE BEAMS AND GIRDERS ARE DESIGNED TO BE UNSHORED DURING CONSTRUCTION.

8. ALL SHELF ANGLES, LINTELS IN EXTERIOR WALLS, ALL EXTERIOR STEEL EXPOSED TO THE ELEMENTS, AND ALL ITEMS INDICATED ON THE DRAWINGS AS "GALVANIZED" SHALL BE GALVANIZED.

9. INCLUDE AN ALLOWANCE IN THE BID TO PROVIDE AND ERECT 5 ADDITIONAL TONS OF STRUCTURAL AND/OR MISCELLANEOUS STEEL(SHAPES, ANGLES, PLATES, ETC.). MATERIAL OT BE USED AND ITS APPLICATION SHALL BE DETERMINED BY THE ARCHITECT. CONNECTIONS, IF REQUIRED, SHALL BE FIELD-WELDED.

STEEL JOISTS

1. SPECIFICATIONS:

A. FABRICATION AND ERECTION TO BE SJI REQUIREMENTS.

B. MEMBER TO BE A MEMBER OF SJI.

2. BRIDGING:

A. NUMBER OF ROWS AS SHOWN IN THE CONTRACT DRAWINGS.

B. HORIZONTAL BRIDGING MAY BE WELDED TO THE JOISTS. C. DIAGONAL BRIDGING IS TO BE BOLTED TO THE JOISTS AT THEIR POINT OF INTERSECTION. ENDS OF DIAGONAL BRIDGING ARE TO BE ANCHORED. WITH HORIZONTAL BRINDGING UNLESS SHOWN OTHERWISE. HORIZONTAL BRIDGING IN NO MORE THAN TWO CONSECUTIVE BAYS MAY BE USED TO PROVIDE PASSAGE FOR DUCT WORK.

LEGEND

COLUMN ABOVE

CAST-IN-PLACE CONCRTE

D. ANCHOR BRIDGING TO INTERSECTING STRUCTURAL STEEL OR MASONRY WALLS

A. WELD ALL JOISTS TO SUPPORTING STEEL WITH 1-1/2 INCHES OF 1/8 FILET FOR K-SERIES JOISTS AND 2 INCHES OF 1/4 INCH FILLETED WELD FOR LH-OR DLH- SERIES JOISTS, EACH SIDE OF BEARING. JOISTS ARE TO BE FIELD BOLTED AT COLUMN LINES, OR, IF THERE ARE NO JOISTS AT THE COLUMN LINE, FIELD BOLT THE JOIST NEAREST THE COLUMN ON EACH SIDE OF THE BEAM. EXTEND BOTTOM CHORDS OF THE SAME JOISTS AND WELD THEM TO THE BEAM OR COLUMN.

B. EXTEND ALL JOISTS I INCH MINIMUM PAST CENTERLINE OF SUPPORTING MEMBER WHERE POSSIBLE. BEARINGS TO BE PER DRAWINGS, OR, WHERE SPECIAL INTRUCTIONS ARE NOT GIVEN, ACCORDING TO THE STANDARD SPCIFICATIONS OOF SJI.

4. MISCELLOANEOUS:

A. ADJACENT JOISTS OF THE SAME DEPTH ARE TO HAVE WEB MEMBERS IN LINE TO PERMIT PASSAGE OF HVAC DUCTS.

B. SEE DRAWIONGS FOR SPECIAL BEARING SHOES, EXTENDED ENDS, LOAD DIAGRAM, ETC. C. JOISTS AND JOIST GIRDERS WITH CONCENTRATED LOADS ON THE TOP OR BOTTOM CHORDS NOT LOCATED AT A PANEL POINT SHALL BE REINFORCED WITH A FIELD INSTALLED MEMBER. THE FIELD INSTALLED MEMBER SHALL BE LOCATED AT THE CONCENTRATED LOAD AND SHALL BRACE THE CHORD BACK TO A PANEL POINT IN ACCORDANCE WITH THE "TYPICAL JOIST REINFORCEMENT DETAIL".

STEEL DECK NOTES

1. ROOF DECK AND CANOPY DECK SHALL BE GALVANIZED STEEL CONFORMING TO ASTM A653-94 WITH A MINIMUM YIELD STRENGTH OF 33 KSI. STEEL ROOF DECK SHALL BE 1 1/2" DEEP WIDE RIB (ACOUSTICAL FOR ROOF DECK) WITH THE FOLLOWING MINIMUM SECTION PROPERTIES:

A) t=0.0358 in (20 Gage) B) $|p=0.2|2 \ln 4/ft$

C) 5p=0.234 in3/ft

D) Sn = 0.247 in 3/ft

MADE WITH #10 SELF TAPPING SCREWS AT 10" O.C. BETWEEN SUPPORTS, FASTEN DISCONTINUOUS SIDE OF ROOF DECK TO SUPPORTING STRUCTURE WITH 5/8' DIAM. PUDDLE WELDS AT 10' ON CENTER UNLESS OTHERWISE NOTED.

2. COMPOSITE FLOOR DECK SHALL BE GALVANIZED STEEL CONFORMING TO ASTM A653-94 WITH A MINIMUM YIELD STRENGTH OF 40 KSI. COMPOSITE FLOOR DECK SHALL BE 2" DEEP. DECK RIBS SHALL BE SPACED AT 12" ON CENTER, COMPOSITE FLOOR DECK SHALL HAVE THE FOLLOWING MINIMUM SECTION PROPERTIES:

A) t = 0.0358 in (20 Gage)

WELDS AT 12" ON CENTER UNLESS OTHERWISE NOTED.

B) |p=0.4|8 in4/ft C) 5p = 0.355 in 3/ft

D) Sn=0.630 in3/ft

ATTACH DECK TO SUPPORTS USING 3/4" DIAM. x 5 3/16" LONG HEADED STUDS AT THE QUANTITY INDICATED ON THE FRAMING PLANS. WHERE STUD SPACING EXCEEDS 12" ON CENTER, WELD DECK TO SUPPORTS USING 5/8" DIAM. PUDDLE WELDS AT 12" ON CENTER. SIDE LAP CONNECTIONS SHALL BE MADE WITH 3 #0 SCREW CONNECTIONS PER SPAN. FASTEN DISCONTINUOUS SIDE OF FLOOR DECK TO SUPPORTING STRUCTURE WITH 5/8" DIAM. PUDDLE

3. WHERE 4 OR MORE SUPPORTS ARE PROVIDED, STEEL DECK SHALL SPAN CONTINUOUSLY OVER A MINIMUM OF 4 SUPPORTS (3-SPAN CONDITION), UNLESS OTHERWISE NOTED.

4. ALL COMPOSITE STEEL FLOOR DECK IS DESIGNED AS UNSHORED CONSTRUCTION, UNLESS OTHERWISE NOTED.

5. CONSTRUCTION JOINTS RUNNING PARALLEL TO BEAMS OR GIRDERS SHALL NOT COINCIDE WITH THE CENTERLINE OF THE BEAM OR GIRDER. CONSTRUCTION JOINTS RUNNING PERPENDICULAR TO BEAMS OR GIRDERS SHALL BE LOCATED AT APPROXIMATELY THE 1/3 POINT OF THE BEAM OR

6. PERMANENT SUSPENDED LOADS SHALL NOT BE SUPPORTED BY STEEL ROOF DECK.

<u>SAFETY OSHA AND LABOR LAWS</u>

1. THE STRUCTURAL ENGINEER OF RECORD DOES NOT POSSES NOR PRESUMES TO POSSES ANY KNOWLEDGE OR EXPERTISE IN MATTERS TO JOB SITE EMPLOYEE SAFETY, OSHA OR LABOR LAW REQUIREMENTS FOR A CONSTRUCTION PROJECT.SAFETY AND COMPLINCE WITH OSHA AND LABOR LAWS ARE THE ABSOLUTE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND HIS CONSULTANTS TO ADDRESS THESE MATTERS. THE STRUCTURAL ENGINEER OF RECORD SPECIALIZES IN STRUCTURAL DESIGN ONLY. THE BOARD OF PROFESSIONAL REGULATION FORBIDS HIM FROM ASSUMING RESPONSIBILITY OUTSIDE HIS AREA OF EXPERTISE.

<u>LIGHT GAGE METAL FRAMING</u>

1. ALL STUDS USED FOR WALL FRAMING SHALL BE 6" AND 3 5/8" METAL "C" STUDS SPACED 16" AS INDICATED BELOW

<u>ix (Minimum)</u> 6" STUDS WHICH SERVE AS 14 GAGE 4.727 IN 4 BACKUP FOR FACE BRICK AND SYNTHETIC STUCCO 6" STUDS WHICH SERVE AS 2.86 IN 4 BACKUP FOR METAL SIDING 3 5/8" STUDS WHICH SERVE AS 18 GAGE Ø.479 IN 4 BACKUP FOR SYNTHETIC STUCCO

(INTERIOR) 2. ALL STUD CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR FOR THE REACTIONS INDUCED BY THE LODS INDICATED BELOW.

3. HORIZONTAL WIND LOAD = 50 PSF INWARD OR OUTWARD FOR EXTERIOR STUDS, 5 PSF FOR INTERIOR STUDS,

4. BOTTOM OF STUD WALLS SHALL BE ANCHORED TO CONCRETE WITH 1/2" DIAMETER EXPANSION BOLTS AT A MAXIMUM SPACING OF 4"-0" ON CENTER.

MASONRY CONSTRUCTION NOTES:

BLOCK CELLS. USE NON-METALLIC BAR POSITIONERS.

1. DESIGN MASONRY ASSEMBLAGE STRENGTH, F'm = 1500 PSI. NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE A

2. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C9Ø AND BE MANUFACTURED WITH LIGHTWEIGHT AGGREGATE

3. MORTAR SHALL CONFORM TO ASTM C 270 TYPE "M" (2500 PSI). GROUT FOR FILLED CELL SHALL CONFORM TO ASTM C476 AND SHALL NOT CONTAIN ADMIXTURES. GROUT SHALL ATTAIN A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI, SLUMP 9 IN.

4. REINFORCEMENT SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 / A615M, GRADE 60 AND SHALL HAVE FABRICATION TOLERANCES IN **ACCORDANCE**

1. VERTICAL REINFORCEMENT MUST HAVE A MINIMUM 48 BARS DIAMETER LAP SPLICE UNLESS OTHERWISE NOTED. CENTER WALL REINFORCEMENT IN

5. PROVIDE 9 GAGE HORIZONTAL REINFORCEMENT AT 16" PACING LADDER TYPE FOR 8" NON-LOAD BEARING WALL.

6. PROVIDE VERTICAL REBARS ACCORDING TO PLAN OR WALL SCHEDULE. SEE TYPICAL WALL END AND CORNER DETAILS FOR SPECIAL

8. ANCHORED MASONRY RENEER AND ANCHORS SHALL BE DESINED CONSIDERING 35 PSF VELOCITY PRESSURE

ISPORT 0092 \mathbf{C}

NUMBI Ш RTN \forall

00

 $\overline{}$

EP \Box

PROJE m co a

PH \triangleleft <

ഥ

212 OF 288