NEW BUILDING For:

I-75 TRUCK STOP - REPAIR CENTER

Ellisville, FL 32024

PROJECT DIRECTORY

ARCHITECT
NICHOLAS PAUL GEISLER
NICHOLAS PAUL GEISLER, ARCHITECT
FL REG: AR0007005
1758 NW BROWN ROAD
LAKE CITY, FLORIDA 32055
CELL: (386) 365-4359
EMAIL: npgeisler@gmail.com

DESIGNER
JON MORRIS
RIDGEPOINT DESIGN
496 SW RING CT
LAKE CITY, FLORIDA 32025
PHONE: (386) 288-1188
EMAIL: RidgepointDesign@gmail.com

CODE / PROJECT DATA

BUILDING CODE DATA:

BUILDING CODE:	2017 FLORIDA BUILDING CODE - BUILDING
PLUMBING CODE:.	2017 FLORIDA BUILDING CODE - PLUMBING
MECHANICAL CODE:	2017 FLORIDA BUILDING CODE - MECHANICAL
ELECTRICAL CODE:	NATIONAL ELECTRICAL CODE - LATEST
FIRE CODE:	2012 NFPA FIRE CODE & 2012 NFPA 101 LIFE SAFETY CODE - 5TH EDITION FLORIDA FIRE PREVENTION CODE
ACCESSIBILITY:	FLORIDA ACCESSIBILITY CODE - LATEST

CONSTRUCTION CLASSIFICATION:
FBC: TYPE V, UNPROTECTED (UN-SPRINKLERED)
NFPA: TYPE II (000) (UN-SPRINKLERED)

SHEET INDEX

COLUMBIA COUNTY BUILDING DEPARTMENT - PLANS EXAMINER - Reviewed for Code Compliance - FILE COPY

REVISION:
MAY 6th, 2020
JNE 24th, 2020
JLY 1st, 2020
JLY 21st, 2020
SEPT 1st, 2020

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
566 SW ARLINGTON BLVD, STE 101, LAKE CITY, FL 32025
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

Celebrating 41 Years of Service
1978 - 2019
N.P. GEISLER, ARCHITECT
AR0007005

NICHOLAS PAUL GEISLER
ARCHITECT
FLORIDA LICENSE AR0007005
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4359

DATE:
4th MARCH 2020
COMM:

SHEET:
CS.1
1 OF 15

11:00 04 MAY 2020
AR0007005

GENERAL STRUCTURAL NOTES

GENERAL:

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.

2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.

3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.

4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.

5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TO LOCAT DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. NOTIFY ARCHITECT/ENGINEER, IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.

SHOP DRAWINGS AND DELEGATED ENGINEERING:

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ENGINEER'S REVIEW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTC FOR CONSTRUCTION METHODS, DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE CONTRACTOR'S APPROVAL STAMP. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ENGINEERING DESIGN BY DELEGATED ENGINEERS, ERRORS OR OMISSIONS A A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY THE ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.

2. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERIN, PRODUCT APPROVAL MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ENGINEER-OF-RECORD AND APPROVED BY THE BUILDING DEPARTMENT.

3. SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION SHOWN ON THE STRUCTURAL PLANS (RELATED TO THE DELEGATED DESIGN) INCLUDING ALL DESIGN LOADS, IN ADDITION TO THE INFORMATION REQUIRED BY THE DELEGATED ENGINEER'S DESIGN.

4. A/E WILL REVIEW ALL SUBMITTED SHOP DRAWINGS, PREPARED AND SIGNED AND SEALED BY THE CONTRACTOR'S DELEGATED ENGINEER, ONLY FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT, REQUIRED LOADING AND COORDINATION WITH THE STRUCTURAL DESIGN.

5. CONTRACTOR SHALL SUBMIT TO THE A/E ONLY ONE SET OF SEPIA AND WO SETS OF BLUE PRINTS OF THE STRUCTURAL SHOP DRAWINGS FOR A/E REVIE BEFORE STARTING FABRICATION. THE A/E WILL RETURN THE MARKED-UP AN STAMPED SEPIA TO THE CONTRACTOR. THESE SEPIA COPIES SHALL BE USE TO MAKE THE PRINTS REQUIRED FOR SHOP DRAWING DISTRIBUTION. SETS C BLUE PRINTS (WITHOUT SEPIA) WILL NOT BE ACCEPTED.

CONSTRUCTION MEANS AND METHODS:

1. THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE THE SOL RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT GUARANTEE NOR ASSURE LIABILITY FOR THE JOB SAFETY, TEMPORARY SHORING AND BRACING AND THE PERFORMANCE OF THE CONTRACTOR.

2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE AND APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN WORK IS COMPLETED.

4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.

5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE.

6. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY C PUBLIC UTILITIES.

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2014 FLORIDA BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITIN AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE "B"

BASED ON ANSI/ASCE 7-10. 2014 FBC 1609-A WIND VELOCITY: V_{ULT} = 130 MF
V_{ASD} 08 MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . . 20 PSF
SUPERIMPOSED LIVE LOADS: . . . . . 20 PSF

4. FLOOR DESIGN LOADS
SUPERIMPOSED DEAD LOADS: . . . . . 25 PSF
SUPERIMPOSED LIVE LOADS:
COMMERCIAL . . . . . 100 PSF
BALCONIES/CORRIDORS . . . . . 80 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

FOUNDATIONS: (SPREAD FOOTINGS)

1. FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED GRADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 2500 PSF MINIMUM. A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A FLORIDA REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.

2. NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557).

3. TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF COLUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO THE LOWER ONE (AS DETAILED ON THE PLANS).

4. TOP OF ALL FOOTINGS TO BE A MINIMUM 1'-4" BELOW THE TOP OF CONCRETE SLAB ON GRADE (UNLESS OTHERWISE NOTED) OR MINIMUM 1'-0" BELOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB STEPS ON EACH SIDE OF THE FOOTING, THE FOOTING SHALL BE 1'-4" BELOW TOP OF THE LOWER SLAB.

5. REINFORCING IN THE CONTINUOUS WALL FOOTINGS (MONOLITHIC AND NON-MONOLITHIC) SHALL BE SPLICED 36 BAR DIAMETERS MINIMUM AND SHALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.

6. ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS, SHALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 48 BAR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.

7. ALL FOOTINGS SHALL BE 12" MINIMUM THICKNESS.

CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES THICK MINIMUM REINFORCED WITH 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).

2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. - 302.1R)

3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT COLUMN CENTER-LINES DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).

5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE DENSITY TEST FOR EACH 1,600 SQ.FT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

CONCRETE AND REINFORCING:

1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318 - LATEST EDITION) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" - (A.C.I. 315 - LATEST EDITION).

2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING" (A.C.I. 301 - LATEST EDITION). PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R - LATEST EDITION).

3. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH OF 3,000 P.S.I. AT 28 DAYS. MAXIMUM SLUMP 5".

4. ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A-615 GRADE 60, FABRICATED IN ACCORDANCE WITH C.R.S.I. MANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND C.R.S.I. MANUAL OF STANDARD PRACTICE.

5. CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS:

FOOTINGS:	(BOTTOM). . . . . 3"
	(TOP & SIDES) . . . . . 2"
SLABS ON GRADE:	CENTERED W/SLAB
COLUMNS AND BEAMS:	(TO THE TIES) . . . . . 1-1/2"

6. COLUMN REINFORCEMENT: DOWELS TO BE SAME SIZE AND NUMBER AS VERTICAL REBARS ABOVE. LAP 36 BAR DIAMETER OR MINIMUM OF 18 INCHES, U.O.N. PROVIDE RIGID TEMPLATES FOR DOWEL LOCATION. PROVIDE STANDARD HOOKS AT TOP OF ALL VERTICAL REINFORCEMENT AT NONCONTINUOUS COLUMNS (U.O.N.).

7. ALL DOWELS FOR COLUMNS SHALL BE SECURED IN POSITION PRIOR TO CONCRETING. PUSHING THE DOWELS INTO POSITION IN WET CONCRETE IS NOT PERMITTED.

8. BEAM REINFORCEMENT: LAPPED 36 BAR DIAMETER OR MINIMUM 18 INCHES. BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NONCONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE HOOKS AS REQUIRED (U.O.N.).

9. ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 36 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BAR (TOP, BOTTOM AND INTERMEDIATE REBARS).

10. SEE PLAN FOR MINIMUM SIZE CONCRETE TIE BEAM REQUIREMENTS.

REINFORCED MASONRY WALLS:

1. HOLLOW LOAD-BEARING MASONRY UNITS SHALL CONFORM TO ASTM C-90, TYPE I, GRADE N, SQUARE END, WITH A MINIMUM AVERAGE COMPRESSIVE STRENGTH ON NET AREA OF f'm=2,000 (PSI). CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 530.1 SPECIFICATIONS.

2. SPECIAL INSPECTOR SERVICES ARE REQUIRED FOR ALL REINFORCED MASONRY CONSTRUCTION. THE SPECIAL INSPECTOR SHALL INSPECT THE PLACING OF THE REBARS IN THE CELLS, VERIFY CLEANLINESS OF THE CELLS TO BE GROUTED, AND OBSERVE THE PLACING OF THE GROUT OR CONCRETE INTO THE CELLS.

3. MORTAR SHALL CONFORM TO ASTM C-270, TYPE "M" OR "S".

4. LAY ALL MASONRY WITH FULL FACE HEAD JOINTS AND WITH FACE SHELL MORTAR BEDDING.

5. MASONRY ANCHORAGE TO SUPERSTRUCTURE SHALL BE PROVIDED IN ACCORDANCE WITH STRUCTURAL DRAWINGS AND DETAILS.

6. THE USE OF ADMIXTURES SHALL NOT BE PERMITTED WITHOUT PRIOR REVIEW OF THE ENGINEER.

7. VERTICAL REINFORCING:

(A) ASTM A-615 PER REINFORCING SECTION.

(B) WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL INCH TO SIX INCHES VERTICAL FOR ALIGNMENT, EVEN THOUGH IT IS IN A CELL ADJACENT TO THE VERTICAL WALL REINFORCING.

(C) VERTICAL REINFORCING STEEL SHALL BE PLACED CENTERED IN THE CELL. LAP 48 BAR-DIAMETERS. PROVIDE BAR SPACERS AS REQUIRED TO MAINTAIN REINFORCING SECURED IN POSITION.

(D) VERTICAL REINFORCEMENT SHALL BE PROVIDED AT EACH SIDE OF OPENINGS IN WALL, AT WALL INTERSECTIONS, CORNERS AND ENDS. THIS REINFORCING SHALL BE THE SAME SIZE AS THE SCHEDULED WALL REINFORCING FOR THE PARTICULAR WALL BUT NEVER LESS THAN A #5 REBAR. SPECIAL CARE SHALL BE TAKEN TO INSURE THAT CELLS TO BE GROUTED LINE UP PROPERLY AND ARE CLEAN OF EXCESS MORTAR.

(E) ALL VERTICAL REINFORCING SHALL BE HOOKED INTO THE BOND BEAMS AT THE NON-CONTINUOUS END OF THE REBARS.

(F) PROVIDE INSPECTION HOLES AT THE BOTTOM OF EACH REINFORCED MASONRY CELL, AS REQUIRED FOR LIFTS HIGHER THAN 5 FT.

8. HORIZONTAL REINFORCING:

PROVIDE GALVANIZED #9 GAGE, LADDER TYPE HORIZONTAL JOINT REINFORCING EVERY SECOND BLOCK COURSE (1'-4" O.C. VERTICALLY.) LAPPED 1-1/2". PROVIDE SPECIAL HORIZONTAL REINFORCING AT "T" AND "L" INTERSECTION. ANCHOR TO COLUMNS WITH MINIMUM 4" EXTENSION INTO AREA OF FOUR.

9. PROVIDE "DOVE-TAIL" ANCHORS AT 16" O.C. VERTICALLY FOR ALL MASONRY PLACED ADJACENT TO ALREADY IN PLACE COLUMNS.

10. CELL FILLING CONCRETE SHALL BE "PEA DOCK" CONCRETE MIX (8" TO 9" SLUMP) OR GROUT WITH f'c=3,500 PSI MIN. AT 28 DAYS.

11. LINTELS:

A. THE CONTRACTOR SHALL PROVIDE PRECAST CONCRETE OR CAST-IN-SITE LINTELS AT THE HEADS OF ALL OPENINGS IN MASONRY WALLS NOT EXCEEDING SIX (6) FEET IN WIDTH WHERE BEAMS HAVE NOT BEEN SPECIFIED. FOR OPENING ADJACENT TO CONCRETE COLUMNS - THE LINTEL SHALL BE CAST-IN-PLACE WITH THE COLUMN.

B. LINTEL MAY BE INTEGRAL WITH THE STRUCTURAL OR TIE BEAM WHEN HEAD OF THE OPENING IS 16 INCHES OR LESS BELOW. CONTINUE BEAM'S TYPICAL BOTTOM REBARS THROUGH AND ADD 2-#5 BOTTOM TRUSS BARS AT DROPS AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END AT DROP.

C. MINIMUM BEARING FOR ALL LINTELS 8 INCHES EACH SIDE OR PROVIDE DOWELS AND POCKETS IN ADJACENT CONCRETE COLUMNS.

D. LINTEL TO BE MINIMUM OF 8 INCHES DEEP WITH 2-#4 TOP AND BOTTOM FOR CLEAR SPANS LESS THAN 6 FEET, 12 INCHES DEEP WITH 2-#5 TOP AND BOTTOM AND 2-#3 STIRRUPS AT 6 INCHES O.C. EACH END, FOR SPANS GREATER THAN 6 FEET (UP TO 8 FEET). CALL ENGINEER FOR SPANS LARGER THAN 8 FEET WITH NO SPECIFIED BEAMS OR LINTELS OVER.

STRUCTURAL STEEL: (SHOP DRAWINGS REQUIRED)

1. ALL STRUCTURAL STEEL TO BE DOMESTIC A.S.T.M. A-36 (Fy=36 K.S.I.) AND DESIGNED IN ACCORDANCE WITH THE LATEST A.I.S.C. "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE A.I.S.C. CODE OF STANDARD PRACTICE.

2. STEEL TUBES TO BE DOMESTIC STEEL CONFORMING TO A.S.T.M. A-500 GRADE B (Fy=46 K.S.I.).

TUBE AND PIPE COLUMNS TO BE CONCRETE FILLED WITH VENT HOLES TOP, MIDDLE AND BOTTOM.

3. ALL COLUMN BASE AND CAP PLATES SHALL BE 3/4" THICK (UNLESS OTHERWISE NOTED). WIDTH AND LENGTH AS REQUIRED FOR PROPER BOLTING AND AS INDICATED ON THE PLANS AND DETAILS.

4. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST "STRUCTURAL WELDING CODE - STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH HEAVY DUTY RUSTPROOFING PAINT.

5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO DEVELOP MEMBER IN SHEAR.

6. SPLICE LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.

7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

STRUCTURAL WOOD:

1. TO CONFORM TO RULES OF THE MANUFACTURER'S ASSOCIATION UNDER WHOSE RULES THE LUMBER IS PRODUCED. (SEE SUPPLIER'S SPECIFICATIONS).

2. TO BE AIR DRIED, WELL SEASONED AND GRADE MARKED AT MILL.

3. TO BE NO. 2 SOUTHERN PINE, UTILITY GRADE DOUGLAS FIR OR WEST COAST HEMLOCK.

4. ALL STRUCTURAL WOOD TO BE SURFACED FOUR (4) SIDES (S-4-S) WITH A MINIMUM FIBER STRESS IN BENDING OF 1,200 P.S.I. AND A MAXIMUM MOISTURE CONTENT OF 19 PERCENT.

5. ALL LUMBER AND PLYWOOD IN CONTACT WITH CONCRETE, STUCCO, MASONRY OR OTHER CEMENTITIOUS MATERIALS SHALL BE TREATED TO COMPLY WITH AWPA STANDARD LP-2.

6. STORE ALL LUMBER ABOVE GRADE OR FLOOR. STACK TO ALLOW PROPER AIR CIRCULATION AND PROTECT FROM WETTING WITH SUITABLE COVER.

WOOD TRUSSES: (DELEGATED ENGINEERED SHOP DRAWING REQUIRED)

1. DESIGNED AND FABRICATED IN ACCORDANCE WITH "NATIONAL DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER AND ITS FASTENERS" BY NFPA (LATEST REVISION).

2. TRUSSES SHALL BE DESIGNED, SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER, WHO SHALL BE ASSIGNED AS A DELEGATED ENGINEER FOR THE CONTRACTOR. THE DELEGATED ENGINEER DESIGN AND INDICATE ON THE SHOP DRAWINGS ALL TRUSS COMPONENTS, TEMPORARY BRACING, BRIDGING, HARDWARE, METAL HANGERS, ANCHORS AND METAL SHAPES AS REQUIRED BY DESIGN OR AS INDICATED ON THE PLANS. ALL METAL PARTS TO BE GALVANIZED.

3. TRUSS DESIGNER ENGINEER SHALL INDICATE THE NET WIND UPLIFT REACTIONS FOR EACH TRUSS AND GIRDER TRUSS. EACH TRUSS SHALL BE STRAPPED TO THE SUPPORT WITH A HURRICANE STRAP (AS PER DETAIL ON PLAN). THE SIZE OF STRAP AND AMOUNT OF NAILS SHALL BE SELECTED BASED ON THE UPLIFT DATA OF THE STRAP AND THE TRUSS SHOP DRAWINGS.

4. ALL SEATS FOR THE WOOD GIRDER TRUSSES HAVE BEEN SPECIFIED BY THE A/E IN COORDINATION WITH LOCATION AND LOADING INFORMATION PROVIDED ON THE PRE-ENGINEERED WOOD TRUSS SHOP DRAWINGS.

5. THE STRUCTURAL PLANS INDICATE ALL THE REQUIRED LATERAL PERMANENT BRIDGING, AS RECOMMENDED BY THE "TRUSS PLATE INSTITUTE". TRUSS DESIGNER ENGINEER SHALL PROVIDE INFORMATION AND SHOW ON PLAN, ALL LATERAL BRACING OF ANY TRUSS INDIVIDUAL MEMBERS, AS REQUIRED BY TRUSS DESIGN.

6. TRUSSES SHALL BE INSTALLED WITH OUT OF PLUMB AND OUT OF PLANE TOLERANCES, AS PER THE "TRUSS PLATE INSTITUTE" (SHOWN ON THE ROOF PLAN). ANY TRUSS EXCEEDING THE SPECIFIED TOLERANCE MUST BE REALIGNED OR REPLACED.

7. INSTALLATION OF TRUSSES LONGER THAN 35 FT. OR HIGHER THAN 6 FT. SHALL BE MADE UNDER THE DIRECT SUPERVISION OF A LICENSED BUILDING OR GENERAL CONTRACTOR OR A LICENSED STRUCTURAL ENGINEER OR ARCHITECT.

PLYWOOD ROOF DIAPHRAGM:

1. ROOF DIAPHRAGM SHALL COMPLY WITH THE DESIGN RECOMMENDATIONS OF "A.P.A. DESIGN/CONSTRUCTION GUIDE - DIAPHRAGMS" AND THE LOCAL BUILDING CODE.

2. PLYWOOD ROOF DECKING SHALL BE 19/32" MINIMUM THICKNESS, CDX TYPE AND SHALL BE CONTINUOUS OVER TWO OR MORE SPANS, WITH FACE GRAIN PERPENDICULAR TO THE SUPPORTS.

3. CONNECT PLYWOOD DIAPHRAGM TO STRUCTURE WITH 10d GALV. NAILS, SPACED AT 6" O.C. MAX. AT SUPPORTED EDGES AND AT 6" O.C. ALONG THE INTERMEDIATE SUPPORTS.

GABLE ENDS NAIL SPACING SHALL BE 4" ON CENTERS MAXIMUM.

4. INSPECTIONS: COMPLY WITH THE LOCAL BUILDING CODE AND OTHER REQUIREMENTS FOR INSPECTIONS (BY THE COUNTY, CITY, ARCHITECT OR ENGINEER) OF SPECIFIED COMPONENTS OF THE ROOF STRUCTURE REQUIRING INSPECTIONS.

COLD FORMED METAL FRAMING: (SHOP DRAWINGS REQUIRED)

1. ALL COLD FORMED METAL FRAMING SHALL BE DOMESTIC A.S.T.M. A 653 (Fy = 33 K.S.I.) STEEL, AND DESIGNED IN ACCORDANCE WITH THE LATEST S.S.M.A. SPECIFACATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF COLD FORMED METAL FRAMING AND THE S.S.M.A. CODE OF STANDARD PRACTICE.

2. ALL CFMF COMPONENTS SHALL BE MANUFACTURED AS PER ASTM C 955 AND BE GALVANIZED WITH A MINIMUM G-60 COATING PER ASTM C 955.

ALL PRODUCTS SHALL BE FREE OF RUST, DENTS, BENDS & TWISTS AND STORED ON A FLAT PLANE PRIOR TO INCLUSION IN THE WORK.

3. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST, E1.3 & D1.3 "STRUCTURAL WELDING CODE - STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH ZINK RICH RUSTPROOFING PAINT.

4. BOTTOM TRACK SHALL BE SECURED TO THE CONCRETE FOUNDATION W/ ANCHOR BOLTS AS PER THE FOUNDATION PLAN AND SHALL BE FURTHER FASTENED AT EA. FULL STUD W/ .177"~ X 1\" PAF, SHOT THROUGH A 1"~ X 16 GA HOLELESS WASHER.

5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO FULLY DEVELOP MEMBER IN SHEAR.

6. SPLICE LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.

7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

COLD FORMED METAL FRAMING: (SHOP DRAWINGS REQUIRED)

1. ALL COLD FORMED METAL FRAMING SHALL BE DOMESTIC A.S.T.M. A 653 (Fy = 33 K.S.I.) STEEL, AND DESIGNED IN ACCORDANCE WITH THE LATEST S.S.M.A. SPECIFACATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF COLD FORMED METAL FRAMING AND THE S.S.M.A. CODE OF STANDARD PRACTICE.

2. ALL CFMF COMPONENTS SHALL BE MANUFACTURED AS PER ASTM C 955 AND BE GALVANIZED WITH A MINIMUM G-60 COATING PER ASTM C 955.

ALL PRODUCTS SHALL BE FREE OF RUST, DENTS, BENDS & TWISTS AND STORED ON A FLAT PLANE PRIOR TO INCLUSION IN THE WORK.

3. ALL WELDING TO BE IN ACCORDANCE WITH A.W.S. LATEST, E1.3 & D1.3 "STRUCTURAL WELDING CODE - STEEL". CLEAN AND RUSTPROOF ALL FIELD WELDS WITH ZINK RICH RUSTPROOFING PAINT.

4. BOTTOM TRACK SHALL BE SECURED TO THE CONCRETE FOUNDATION W/ ANCHOR BOLTS AS PER THE FOUNDATION PLAN AND SHALL BE FURTHER FASTENED AT EA. FULL STUD W/ .177"~ X 1\" PAF, SHOT THROUGH A 1"~ X 16 GA HOLELESS WASHER.

5. ALL CONNECTIONS TO BE FIELD AND SHOP WELDED AND TO FULLY DEVELOP MEMBER IN SHEAR.

6. SPLICE LOCATIONS TO BE REVIEWED BY ARCHITECT/ENGINEER.

7. STEEL BEARING ON STEEL TO BE WELDED THERETO.

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:

I-75 TRUCK STOP - REPAIR CENTER

ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
818 WEST DUVAL STREET, LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

Celebrating 41 Years of Service
1972 - 2013
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
758 NE Brown Rd.
Lake City, FL 32055
386-365-1555

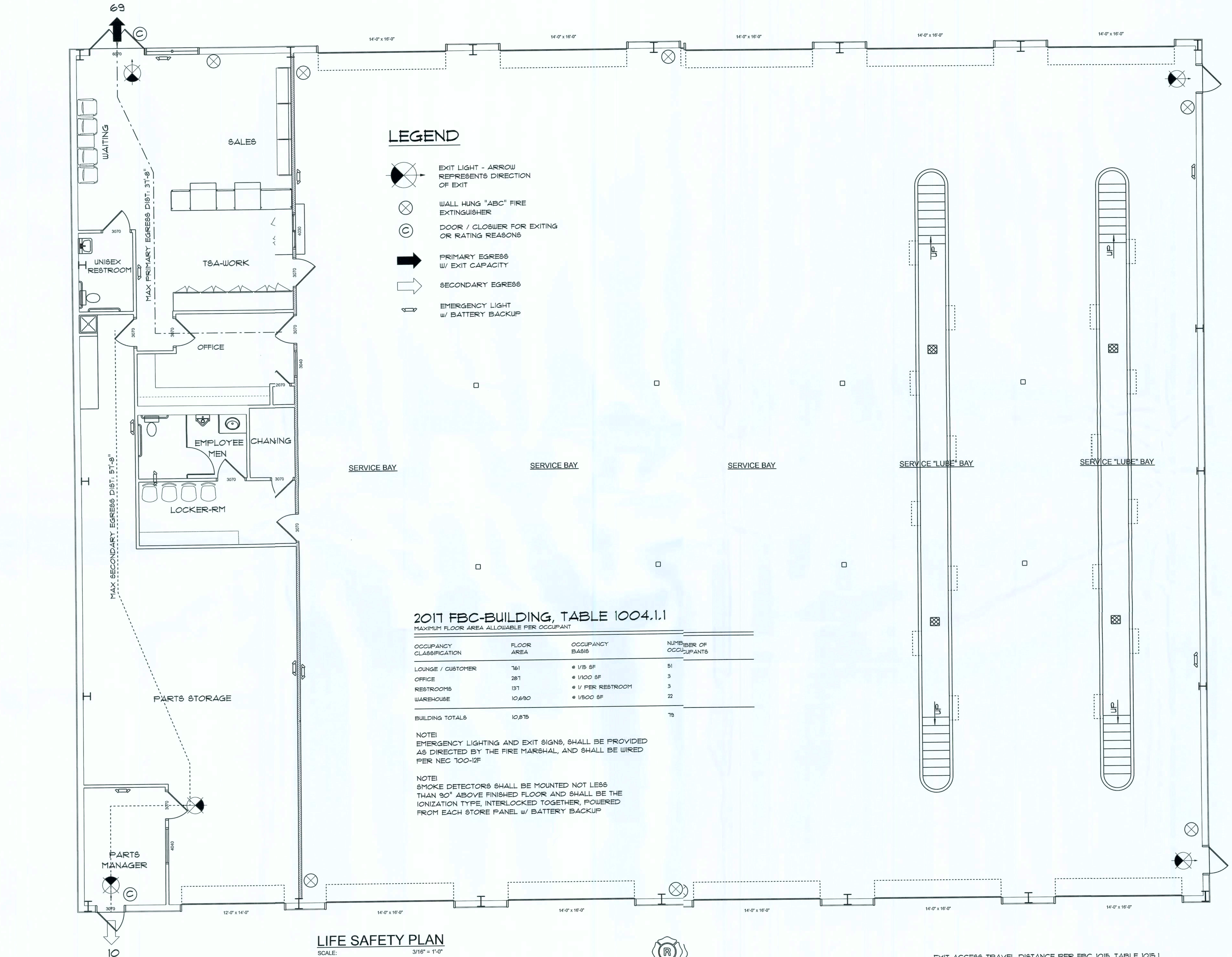
DATE:
11th DECEMBER 2019

COMM:

SHEET:
N.1
2 OF 15

OF FLORIDA

AR0007005



2017 FBC-BUILDING, TABLE 1004.1.1

MAXIMUM FLOOR AREA ALLOWABLE PER OCCUPANT

OCCUPANCY CLASSIFICATION	FLOOR AREA	OCCUPANCY BASIS	NUMBER OF OCCUPANTS
LOUNGE / CUSTOMER	761	@ 1/15 SF	51
OFFICE	287	@ 1/100 SF	3
RESTROOMS	137	@ 1/ PER RESTROOM	3
WAREHOUSE	10,690	@ 1/500 SF	22
BUILDING TOTALS	10,875		79

NOTE!
EMERGENCY LIGHTING AND EXIT SIGNS, SHALL BE PROVIDED AS DIRECTED BY THE FIRE MARSHAL, AND SHALL BE WIRED PER NEC 700-12F

NOTE!
SMOKE DETECTORS SHALL BE MOUNTED NOT LESS THAN 90" ABOVE FINISHED FLOOR AND SHALL BE THE IONIZATION TYPE, INTERLOCKED TOGETHER, POWERED FROM EACH STORE PANEL w/ BATTERY BACKUP

LIFE SAFETY PLAN

SCALE: 3/16" = 1'-0"

NOTE!
TRAVEL DISTANCES SHOWN ARE MAXIMUM FOR EMERGENCY EGRESS, SECONDARY EM. EGRESS AND NON-EMERGENCY EGRESS - ALL OTHER TRAVEL DISTANCES ARE LESS THAN THAT SHOWN

8" SQ. MALTESE, CROSS w/ "F/R" IDENTIFIER
SIGNAGE, MOUNTED @ 60" ABV. WALKWAY
LOCATE : AS DIRECTED BY THE FIRE MARSHAL

EXIT ACCESS TRAVEL DISTANCE PER FBC 1015, TABLE 1015.1

OCCUPANCY - OFFICE
150 FT. (WITHOUT SPRINKLER SYSTEM)
250 FT. (WITH SPRINKLER SYSTEM)

REVSION:
MAY 6th, 2020
JUNE 24th, 2020
JULY 1st, 2020
JULY 21st, 2020
SEPT 1st, 2020
OCT. 14th, 2020

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
566 SW ARLINGTON BLVD, STE 101, LAKE CITY, FL 32025
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

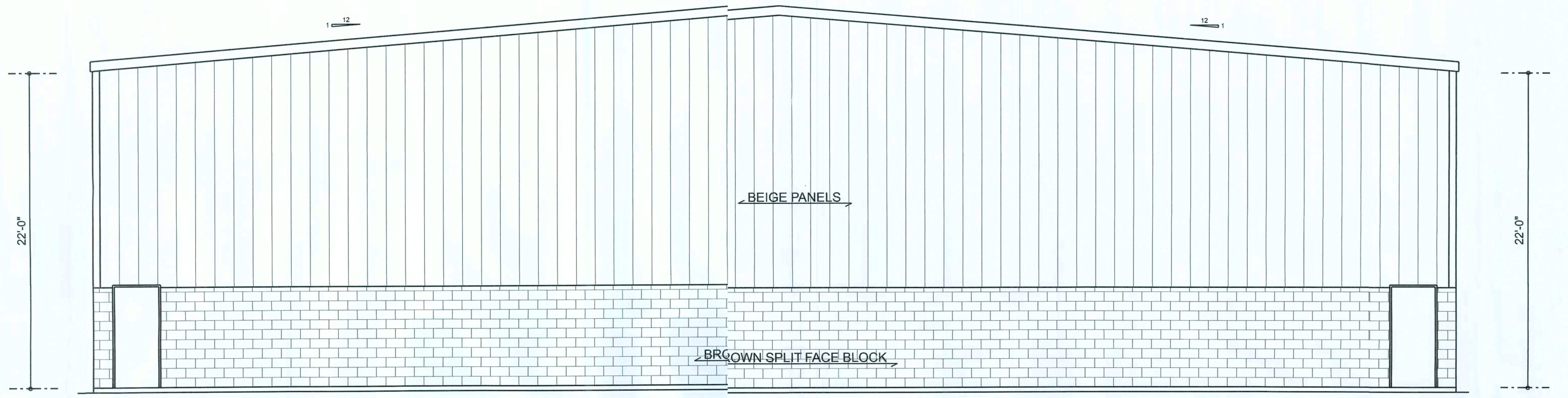
Celebrating 47 Years of Service
1972 - 2019
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

DATE:
9th MARCH 2020
COMM:

SHEET:
LS.1
3 OF 15

AR0007005



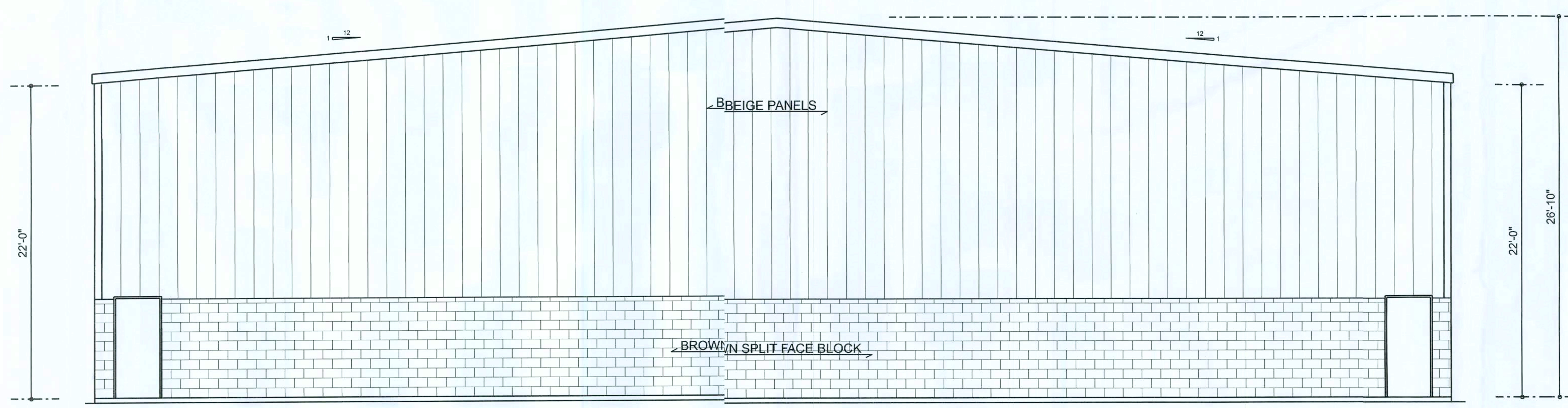
SOUTH BUILDING VIEW

SCALE: 3/16" = 1'-0"

FINISHED SURFACE AREA:

TOTAL WALL SURFACE = 2,191 SQ FT

SPLIT FACE BLOCK = 665 SQ FT (30%)
METAL PANEL FACADE = 1,526 SQ FT (70%)



NORTH BUILDING VIEW

SCALE: 3/16" = 1'-0"

FINISHED SURFACE AREA:

TOTAL WALL SURFACE = 2,191 SQ FT

SPLIT FACE BLOCK = 665 SQ FT (30%)
METAL PANEL FACADE = 1,526 SQ FT (70%)

RIVISION:
MAY 6th, 2020

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
818 WEST DUVAL STREET, LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

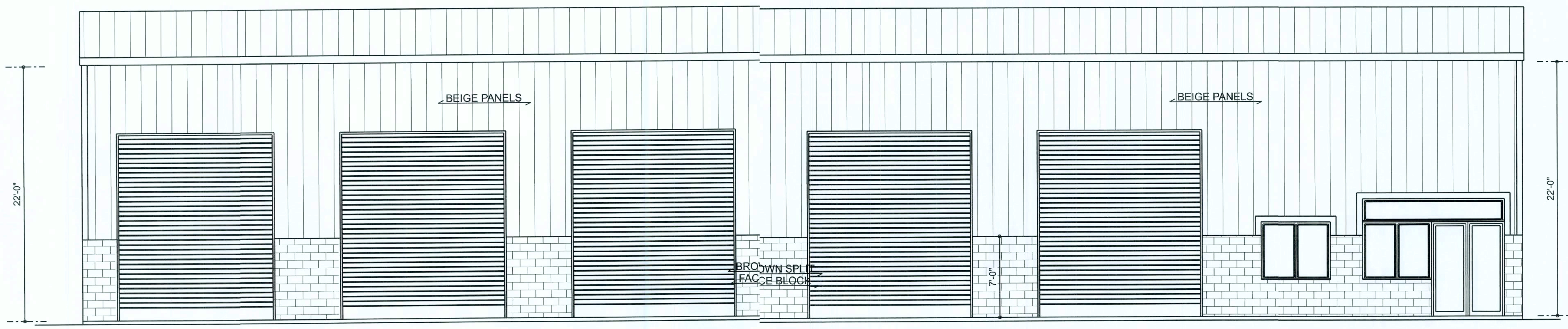
Celebrating
47 Years of Service
1972 - 2019
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

DATE:
1th MARCH 2020
COMM:

SHEET:
A.1
4 OF 15

AR0007005



EAST BUILDING VIEW

SCALE: 1/8" = 1'-0"

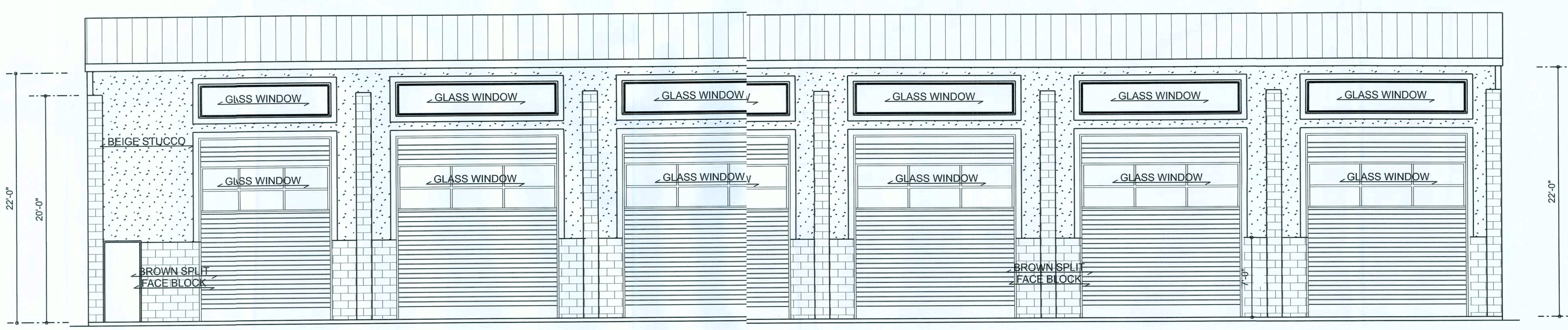
FINISHED SURFACE AREA:

TOTAL WALL SURFACE = 2,750 SQ FT

GARAGE DOORS = 1,147 SQ FT
GLASS STOREFRONT = 104 SQ FT

NET WALL SURFACE = 1,499 SQ FT

SPLIT FACE BLOCK = 329 SQ FT (22%)
METAL PANEL FACADE = 922 SQ FT (34%)



WEST BUILDING VIEW (HWY 441)

SCALE: 3/16" = 1'-0"

FINISHED SURFACE AREA:

TOTAL WALL SURFACE = 2,750 SQ FT

WINDOW SURFACES = 588 SQ FT (21%)
GARAGE DOORS = 1029 SQ FT (37%)

NET WALL SURFACE = 1,133 SQ FT

SPLIT FACE BLOCK = 403 SQ FT (36%)
STUCCO FACADE = 730 SQ FT (64%)

REVISION: MAY 6th, 2020

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
818 WEST DUVAL STREET, LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

NICHOLAS PAUL GEISLER ARCHITECT
AR0007005

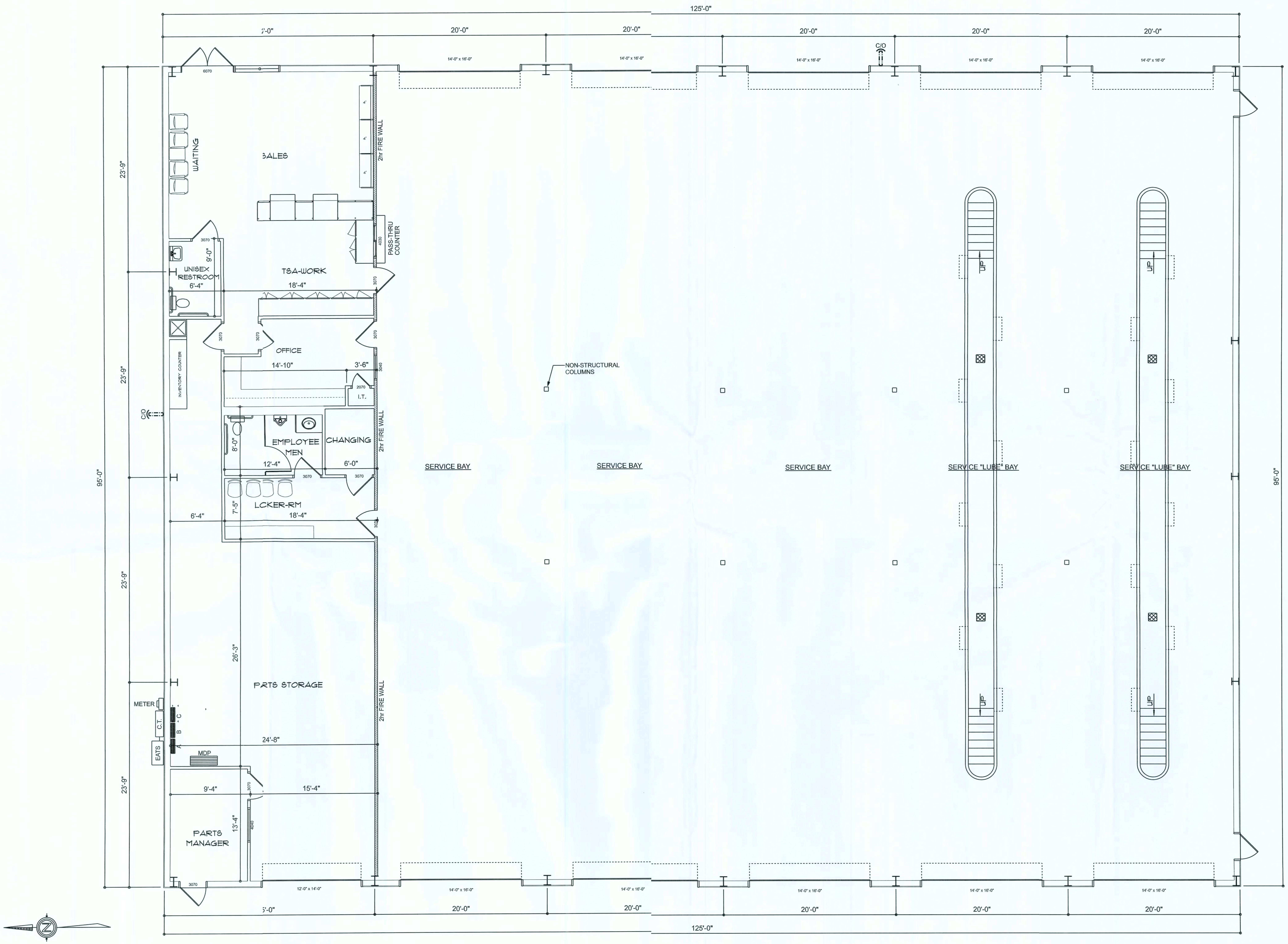
DATE: 5th MARCH 2020

COMM:

SHEET: A.2

5 OF 15

AR0007005



DIMENSIONED ILOOR PLAN

SCALE: 1/8" = 1'-0"

REVSION:
MAY 6th, 2020
JUNE 24th, 2020
JULY 1st, 2020
JULY 21st, 2020
SEPT 1st, 2020
OCT. 14th, 2020

DRAWN:

PROPOSED BUILDINGS FOR:

I-75 TRUCK STOP - REPAIR CENTER

ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
566 SW ARLINGTON BLVD, STE 101, LAKE CITY, FL 32025
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

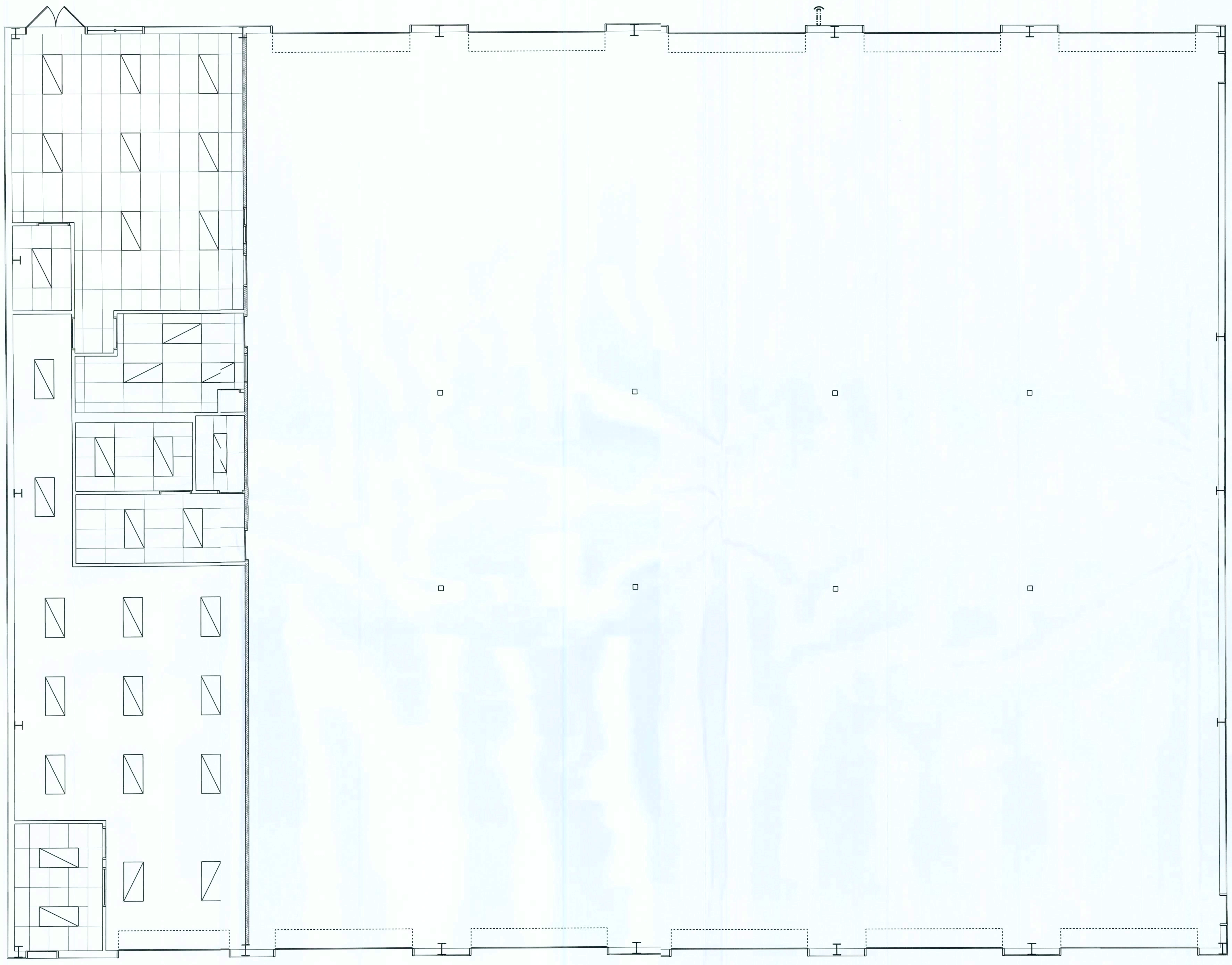
Celebrating
1972 - 2019
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

DATE:
9th MARCH 2020
COMM:

SHEET:
A.3
6 OF 15

AR0007005



REFLECTED CEILING FLOOR ILAN

SCALE: 1/16" = 1'-0"

REVISION:
MAY 6th, 2020
JUNE 24th, 2020
JULY 1st, 2020
JULY 21st, 2020
SEPT 1st, 2020
OCT. 14th, 2020

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
566 SW ARLINGTON BLVD, STE 101, LAKE CITY, FL 32025
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

Celebrating 47 Years of Service
1972 - 2019
N.P. Geisler, Architect
AR0007005

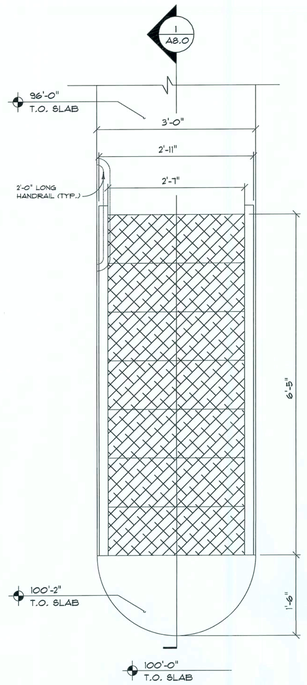
NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

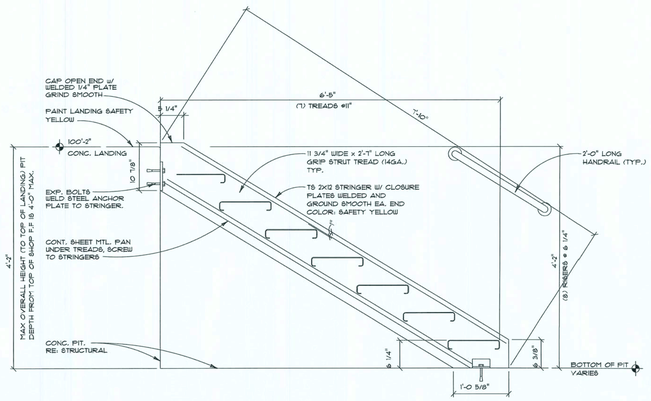
DATE:
1th MARCH 2020

COMM:

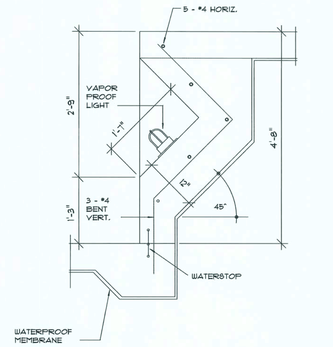
SHEET:
A.4
7 OF 15

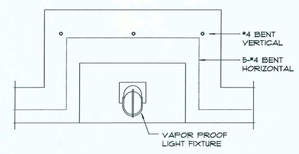
AR0007005



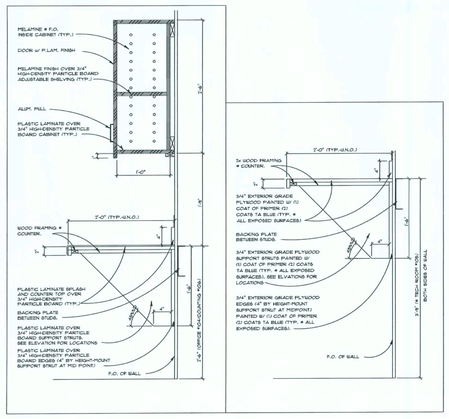


TYPICAL SECTION
1 STAIR / PIT
3/4" = 1'-0"

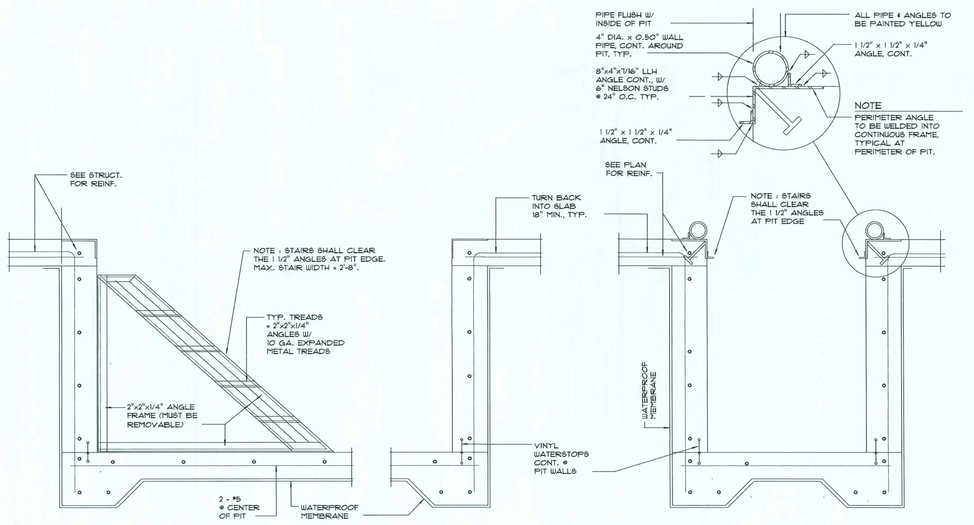




PLAN / SECTION
2 LIGHT WELL
1/2" = 1'-0"



TYPICAL SECTION AT
5 CABINETRY & MILLWORK
3/4" = 1'-0"



TYPICAL
3 SECTION AT PIT
3/4" = 1'-0"

TYPICAL
4 SECTION AT PIT
3/4" = 1'-0"

NOTE:
COORDINATE ALL REINFORCING WITH STRUCTURAL.

REVISION:
MAY 6th, 2020
JUNE 24th, 2020
JULY 1st, 2020
JULY 21st, 2020
SEPT 1st, 2020

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
566 SW ARLINGTON BLVD, STE 101, LAKE CITY, FL 32025
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

Celebrating 100 Years 1912 - 2019
N.P. Geisler, Architect. AR0007005

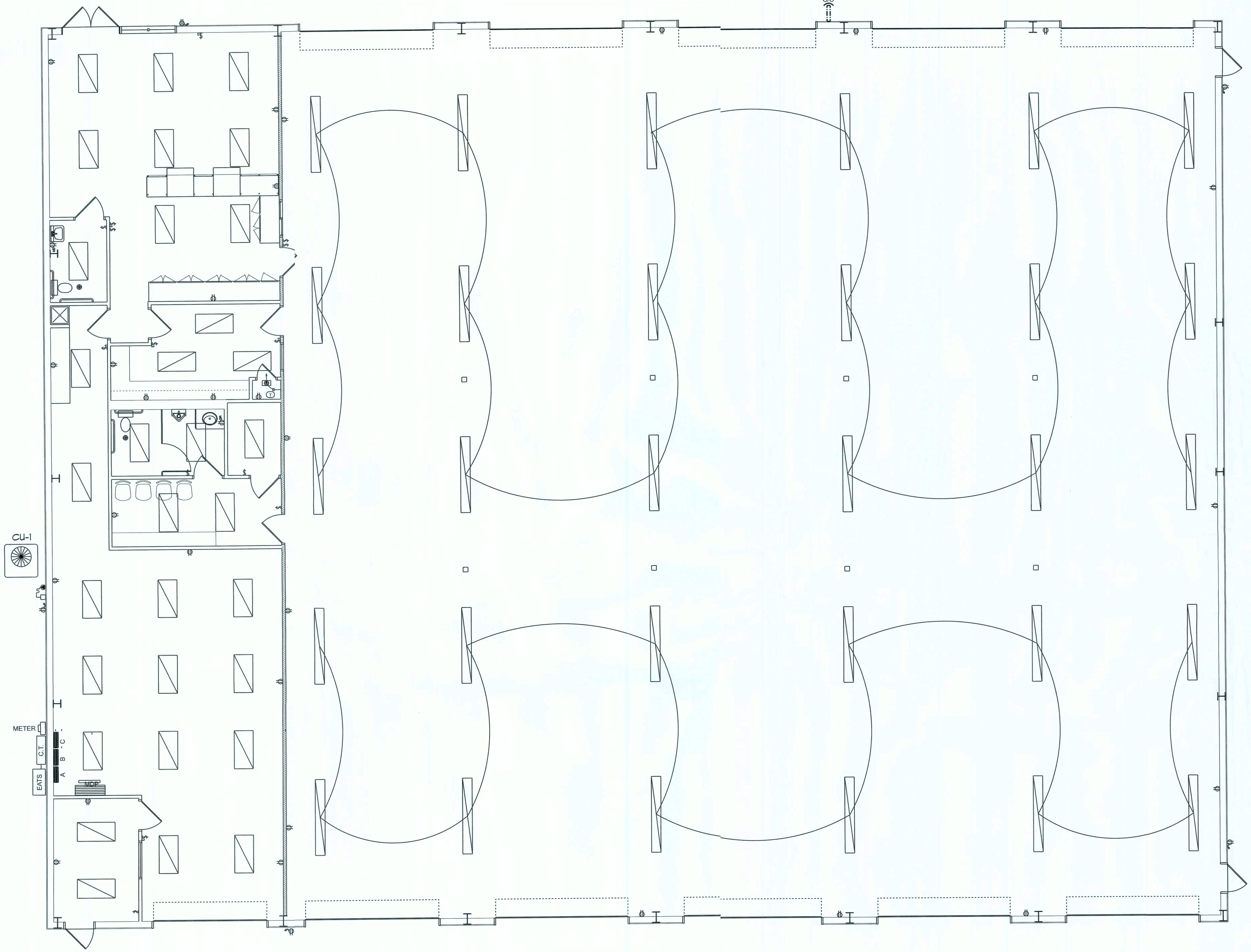
NICHOLAS PHILLIP GEISLER
ARCHITECT
N.C.A.R.B. Certified
1784 NW Bryce Road, Lake City, FL 32055
386-365-4355

DATE:
9th MARCH 2020
COMM:

SHEET:
A.6
3 OF 15

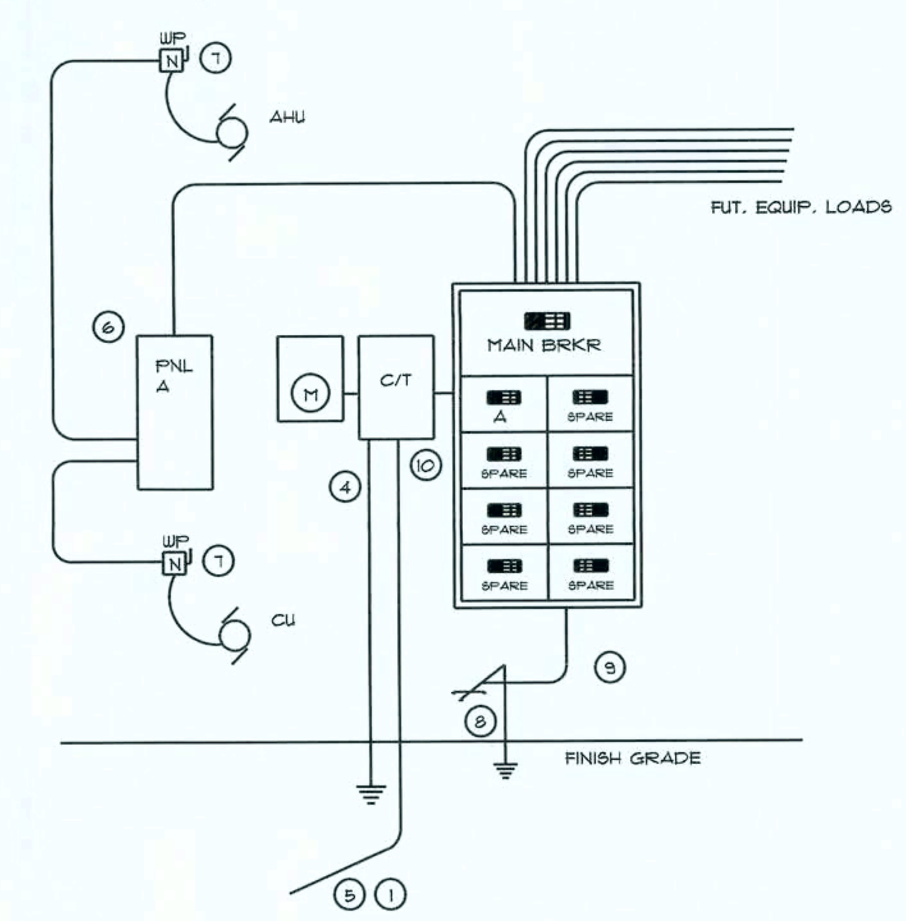
6 MAY 2020

AR0007005



ELECTRICAL PLAN

SCALE: 3/16" = 1'-0"



1. Service/Feeder Entrance Conductors: 3-3\" rigid conduit, min. 18" deep, w/ continuous Ground Bonding Conductor. Service/ Entrance Conductors shall not be spliced except that bolted connections at the Meter, Disconnecting Devices and Panel shall be allowed.
2. Meter Enclosure, weatherproof, U.L. Listed.
3. Main Disconnect Switch: fused or Main BRKR, weatherproof, U.L. Listed.
4. Service entrance Ground: ¾" ~ iron/steel rod x 8'-0" long and/or concrete encased foundation steel rebar x 20'-0" long. Grounding Conductor shall be bonded to each piece of Service/ Entrance Equipment, and shall be sized per item #5, below.
5. 1000 AMPERE SERVICE: Refer to SERVICE COMPUTATIONS
6. Panelboard (PNL), U.L. Listed, sized per schedule.
7. Equipment Disconnect Switch: non-fused, in weatherproof enclosure, size according to Panel Schedule loads.
8. Provide Ground Bond Wire to metal piping, size in accordance with the Service Ground Conductor.
9. Main Distribution Panel: Refer to layout at left
10. Current Transformer: Refer to Utility Company for requirements, Contact Clay Electrical Cooperative

NOTE!
THE MINIMUM AIC RATING FOR PANEL BOARDS, BRKRS AND DISCONNECT SWITCHES SHALL BE 22,000 AIC.

SERVICE SIZE W/ PARALLEL CONDUCTORS:
120/240V 1~ - 4W - 1200 AMPERS SERVICE
3 - 5" CONDUITS, EACH WITH: 3 - 600 MCM THW - Cu
3 - 400 MCM THW - Cu - NEUT & 1 - #1/0 - Cu - GND

Electrical Riser DIAGRAM: 1200A

SCALE: NONE

REVISION:
MAY 6th, 2020
JUNE 24th, 2020
JULY 1st, 2020
JULY 21st, 2020
SEPT 1st, 2020
OCT. 14th, 2020

DRAWN:

PROPOSED BUILDINGS FOR:

I-75 TRUCK STOP - REPAIR CENTER

ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
566 SW ARLINGTON BLVD, STE 101, LAKE CITY, FL 32025
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

Celebrating 47 Years of Service
1972 - 2019
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER
ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

DATE:
9th MARCH 2020

COMM:

SHEET:
E.1
8 OF 15

14 Oct 2020
AR0007005

DIFFUS!R SCHEDULE

TYPE	SERVICE	CFM RAGE MIN	CFM RAGE MAX	MODULE SIZE	NECK 'N'	MODEL
A	SUPPLY–CEILING	0	140	24x24	6"	TITUS – TMS–I
		141	325	24x24	8"	TITUS – TMS–I
		326	475	24x24	10"	TITUS – TMS–I
		476	650	24x24	12"	TITUS – TMS–I
		651	900	24x24	14"	TITUS – TMS–I
		901	1200	24x24	15"	TITUS – TMS–I
B	RETURN/EXHAUST CEILING	0	150	24x24	6"	TITUS 50F
		151	260	24x24	8"	TITUS 50F
		261	450	24x24	10"	TITUS 50F
		451	695	24x24	12"	TITUS 50F
		696	900	24x24	14"	TITUS 50F
		901	1200	24x24	16"	TITUS 50F
		1201	1500	24x24	18"	TITUS 50F
C	SUPPLY – CEILING	0	120	12x12	6"	TITUS – TDC
		121	210	12x12	8"	TITUS – TDC
E	SUPPLY – SIDEWALL	0	165	8X6	–	TITUS – 300FL
		166	275	12X6	–	TITUS – 300FL
		276	400	12X8	–	TITUS – 300FL
		401	495	12X10	–	TITUS – 300FL
		496	595	18X10	–	TITUS – 300FL
		596	695	18X12	–	TITUS – 300FL
		696	800	18X14	–	TITUS – 300FL
		801	995	24X14	–	TITUS – 300FL
		996	1100	36X12	–	TITUS – 300FL
C	RETURN – SIDEWALL	0	150	10X8	–	TITUS – 355FLF1
		151	300	12X8	–	TITUS – 355FLF1
		301	399	12X10	–	TITUS – 355FLF1
		400	600	18X10	–	TITUS – 355FLF1
		601	775	18X12	–	TITUS – 355FLF1
		776	1100	20X16	–	TITUS – 355FLF1
		1101	1500	24X16	–	TITUS – 355FLF1
		1501	2100	30X18	–	TITUS – 355FLF1
		2101	3150	32X32	–	TITUS – 355FLF1

NOTES:

1. DIFFUSER RUNOUT SIZE SHALL BE DIFFLER NECK SIZE, UNLESS OTHERWISE NOTED ON DRAWINGS.
2. COORDINATE COLOR OF DIFFUSERS WITH RCHITECT.
3. PROVIDE OPPOSED BLADE VOLUME DAMPR INSTALLED ON BACK–SIDE OF SUPPLY/RETURN REGISTERS INSTALLED IN GYPSUM CEILINS. PROVIDE STARTING COLLAR WITH BALANCING DAMPER AT FLEX DUCT CONNECTION ALL OTHER UPPLY/RETURN REGISTERS/DIFFUSERS.
4. PROVIDE SURFACE MOUNT FRAME TYPE OR DIFFUSERS INSTALLED IN GYPSUM/HARD CEILINGS AND 24"X24" MODULE LAY–IN FOR T–BAR DIP CEILINGS.

AHU SEQUENCE OF OPERATION

1. SUPPLY FAN IS ENERGIZED BY A TWO POSITION SWITCH. WHEN THE SWITCH IS CLOSED IT SHALL ENERGIZE THE SYSTEM PROVIDING POWER TO ALL COMPONENTS AND LOW VOLTAGE CONTROL TO ALL CONTROL DEVICES, AND OPEN THE MINIMUM OUTSIDE AIR DAMPER.
2. SYSTEM SHALL BE CONTROLLED WITH A WALL MOUNTED THERMOSTAT DEVICE CONTROLLING SPACE TEMPERATURE. THE THERMOSTAT SHALL INCLUDE OFF–AUTO–COOLING–HEATING MODES AND TIME–DAY–WEEK SCHEDULING CAPABILITIES. THERMOSTAT SHALL BE SET TO "AUTO" MODE.
3. WHEN THE SPACE TEMPERATURE RISES ABOVE THE SETPOINT THE COMPRESSOR/S SHALL CYCLE TO MAINTAIN ROOM TEMPERATURE SETPOINT.
4. WHEN THE SPACE TEMPERATURE IS SATISFIED THE CONDENSER SHALL COMPLETELY SHUT–DOWN. THE SUPPLY FAN SHALL RUN CONTINUOUSLY WHEN THE SPACE IS OCCUPIED.
5. WHEN THE SPACE TEMPERATURE FALLS BELOW THE SETPOINT THE ELECTRIC HEAT SHALL ENERGIZE TO MAINTAIN ROOM TEMPERATURE SETPOINT.
6. THE SYSTEM SHALL IMPOSE A 30 SECOND TIME DELAY TO RESTART THE SUPPLY FAN, COMPRESSORS, AND CONDENSER FANS AFTER SYSTEM SHUT DOWN.
7. PROVIDE NEW 24 HR / 7 DAY THERMOSTAT FOR ALL EXISTING AND NEW SYSTEMS TO INSURE THAT DURING UNOCCUPIED HOURS THAT UNIT DOES NOT ENERGIZE.

GENERAL NOTES AND SPECIFICATIONS

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE – MECHANICAL. CONCEALED SUPPLY DUCTS AND ALL RETURN DUCTS SHALL BE RIGID, FIBERGLASS DUCT–BOARD, 1.5" THICK. FLEXIBLE DUCTS SHALL BE R–6.5 UL LISTED CLASS 1 AND NOT EXCEED 5' IN LENGTH. RUN–OUTS WHERE DISTANCES TO DIFFUSER EXCEED 5' SHALL BE SINGLE WALL ROUND DUCT WITH EXTERNAL INSULATION. AIR CONDITIONING UNITS FOR THE SPACE SHALL BE BY TRANE OR ENGINEER APPROVED EQUAL. PROVIDE ENGINEERED SUPPORTS FOR ROOF MOUNTED AND WALL SUSPENDED CONDENSING UNITS. PROVIDE 1" THICK MEDIUM EFFICIENCY PLEATED FILTERS. PROVIDE NEW PRO PROVIDE 1 YEAR WARRANTY ON LABOR AND MATERIAL BY CONTRACTOR, , AND MANUFACTURER'S WARRANTY ON ANY NEW EQUIPMENT.
2. ANY FIELD CHANGES AS A RESULT OF VALUE ENGINEERING SHALL BE COMMUNICATED TO THE ARCHITECT AND ENGINEER OF RECORD PRIOR TO COMMENCEMENT OF VALUE ENGINEERING WORK. ENGINEERING PLAN REVISIONS REQUIRED BY BUILDING INSPECTORS TO MATCH VALUE ENGINEERING CHANGES SHALL BE COMPENSATED TO THE ENGINEER AT A NEGOTIATED AMOUNT BY THE SUB–CONTRACTOR ENACTING THE VALUE ENGINEERING CHANGE.
3. MECHANICAL CONTRACTOR SHALL PROVIDE TO ARCHITECT A COMPLETE TEST AND BALANCE REPORT, PERFORMED BY AN AABC OR NEBB CERTIFIED CONTRACTOR, UPON COMPLETION OF THE PROJECT.

MECHANICAL LEGEND

- SUPPLY DIFFUSER
- RETURN REGISTER
- EXHAUST REGISTER
- MOTORIZED DAMPER
- BACKDRAFT DAMPER
- SUPPLY SIDEWALL GRILLE
- SPIN–IN TAP W/DAMPER
- CD — CONDENSATE DRAIN
- T — THERMOSTAT
- FLEXIBLE DUCT
- DW — DRYWELL
- UC — 3/4" DOOR UNDERCUT
- C — CARBON DIOXIDE SENSOR

DESIGN CONDITIONS

EXTERIOR DESIGN CONDITIONS
SUMMER DRY/WET BULB 96°F/77°F
WINTER DRY BULB 29°F

INTERIOR DESIGN CONDITIONS
SUMMER 75°F, +/– 3°F
50% R.H. +/– 10%
WINTER 72°F

SPLIT SYSTEM DX SCHEDULE

PLAN MARK	NOMINAL TONS	MANUFACTURER – TRANE: INDOOR UNIT	MANUFACTURER – TRANE: OUTDOOR UNIT	AIR FLOWS: TOTAL CFM	AIR FLOWS: OA CFM	FAN DATA: EXT. SP	FAN DATA: TOTAL SP	FAN DATA: HP	FAN DATA: TYPE	COOLING COIL: AIR TEMP EDB	COOLING COIL: AIR TEMP EWB	COOLING COIL: SEN. MBH	COOLING COIL: TOTAL MBH	HEATING: AUX. KW	INDOOR UNIT ELEC. DATA: MCA	INDOOR UNIT ELEC. DATA: MOCP	INDOOR UNIT ELEC. DATA: VOLT/PHASE	OUTDOOR UNIT ELEC. DATA: MCA	OUTDOOR UNIT ELEC. DATA: MOCP	OUTDOOR UNIT ELEC. DATA: VOLT/PHASE	MIN. SYSTEM EER	NOTES	STATUS
AHU–1/CU–1	6	TWE07243B	TTA07243D	2400	170	0.8	–	1.5	D	77.0	64.0	53.6	71.5	14.96	26	35	208/3	23	30	208/3	11.5	1–11	NEW

NOTES:

1. COORDINATE WITH ELECTRICAL CONTRACTOR PRIOR TO ORDERING AND INSTALLATION.
2. SINGLE POINT POWER CONNECTION.
3. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DISCONNECT SWITCH
4. ELECTRONIC 7–DAY PROGRAMMABLE THERMOSTAT
5. TIME DELAY RELAY
6. FILTER RACK WITH THROW AWAY FILTERS
7. FILTER DRIER
8. COMPRESSOR START ASSIST
9. HIGH AND LO PRESSURE SWITCHES
10. CRANKCASE HEATERS
11. SIZE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATION FOR MINIMUM SYSTEM CAPACITY LOSS

FAN SCHEDULE

PLAN MARK	BASIC OF DESIGN	TYPE	CFM	STATIC PRESS. IN. WG.	MOTOR RPM	MOTOR HP	VOLT/PHASE	DRIVE TYPE	STATUS	FAN INTERLOCK
EF–1	LOREN COOK GC–144	CEIL.	100	0.33	1053	77w	115/1	D	NEW	SWITCH
EF–2	LOREN COOK GC–144	CEIL.	100	0.33	1053	77w	115/1	D	NEW	SWITCH
EF–3	LOREN COOK GC–144	CEIL.	100	0.33	1053	77w	115/1	D	NEW	SWITCH
EF–4	LOREN COOK 195ACEB	ROOF	2800	0.25	1348	.343	115/1	B	NEW	SWITCH
EF–5	LOREN COOK GC–144	ROOF	4200	0.25	1049	.590	115/1	B	NEW	SWITCH

NOTES: CEILING: PROVIDE SPEED CONTROLLER, INSECT SCREEN, BACK DRAFT DAMPER, WALL CAP, VIBRATION ISOLATION KIT, DISCONNECT
ROOF: PROVIDE INSECT SCREEN, BACK DRAFT DAMPER, ROOF CURB, DISCONNECT

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
818 WEST DUVAL STREET, LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

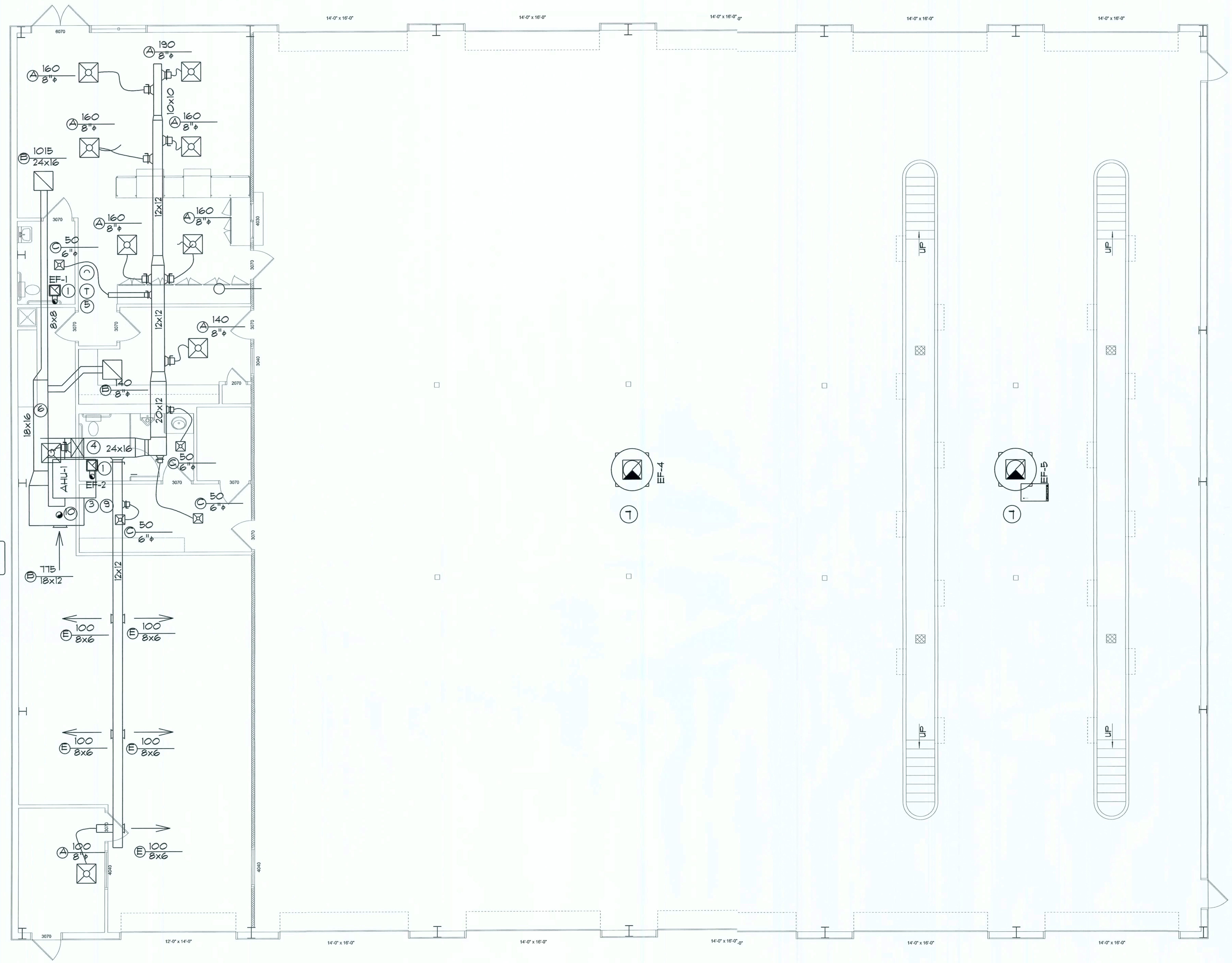
Celebrating 47 Years of Service
1972 - 2019
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

DATE:
7th DECEMBER 2019
COMM:

SHEET:
M.1
9 OF 15

AR0007005
09 NOV 2020



MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

PLAN NOTES

1. 6" SHEET-METAL EXHAUST DUCT, ROUTE TO LOREN COOK PR-10 ROOF CAP
2. SUSPEND AIR HANDLER ABOVE CEILING FROM BOTTOM ROOF JOISTS, PROVIDE VIBRATION ISOLATORS, SEE DETAIL
3. 3/4" INSULATED PVC CONDENSATE TO DRY WELL
4. DUCT SMOKE DETECTOR, PROVIDED, INSTALLED, AND WIRED BY MECH. CONTRACTOR, PROVIDE AUDIBLE-VISUAL INDICATOR
5. DUCT SMOKE DETECTOR'S AUDIBLE-VISUAL INDICATOR, WALL MOUNT
6. 7-DAY 24 HOUR PROGRAMMABLE THERMOSTAT
7. 24x24 EXHAUST AIR DUCT UP TO EF
8. INSTALL CONDENSING UNIT ON 4" CONCRETE HOUSEKEEPING, PROVIDE MIN (2) PER SIDE TAPCON OR EQUAL ANCHORS, COORDINATE PAD WITH GENERAL CONTRACTOR
9. PROVIDE SECONDARY DRAIN PAN AND CONDENSATE PUMP, ROUTE TO DRY WELL.
10. 8" SHEET-METAL OA DUCT WITH MOTORIZED DAMPER, ROUTE TO LOREN COOK PR-10 ROOF CAP

REVISION:
MAY 6th, 2020
JUNE 24th, 2020
JULY 1st, 2020
JULY 21st, 2020
SEPT 1st, 2020
OCT. 14th, 2020

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
566 SW ARLINGTON BLVD, STE 101, LAKE CITY, FL 32025
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

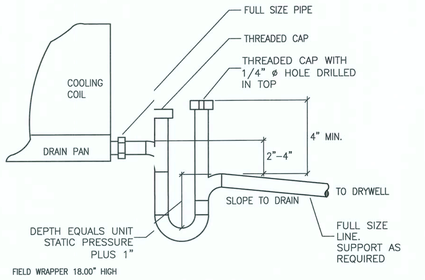
NICHOLAS PAUL GEISLER ARCHITECT
N.P. Geisler, Architect AR0007005

DATE:
9th MARCH 2020

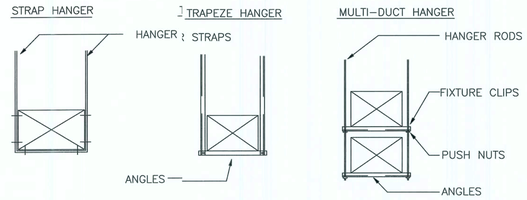
COMM:

SHEET:
M.2
10 OF 15

AR0007005



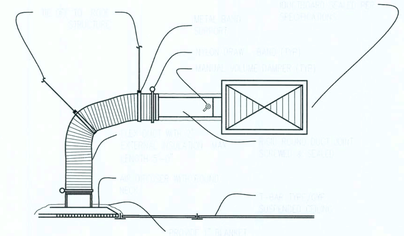
AHU-1 CONDENSATE DRAIN DETAIL
NOT TO SCALE



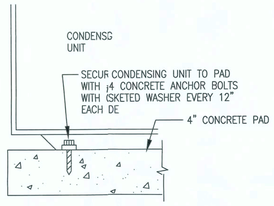
HANGER SIZES FOR RECTANGULAR DUCT

LONGEST DIMENSION OF DUCT	ROUND HANGERS	STRAP HANGERS	TRAPEZE STRAP HANGERS	MAXIMUM SPACING
UP THRU 18"	8 GA. WIRE	1"X22 GAUGE	1"X1"X1/8"	10'-0"
19" THRU 30"	8 GA. WIRE	1"X22 GAUGE	1"X1"X1/8"	10'-0"
31" THRU 42"	3/8" ROD	1"X18 GAUGE	1-1/2"X1-1/2"X1/8"	10'-0"
43" THRU 60"	3/8" ROD	1"X18 GAUGE	1-1/2"X1-1/2"X1/8"	10'-0"
61" THRU 84"	3/8" ROD	1"X18 GAUGE	2"X2"X1/8"	8'-0"
85" THRU 96"	3/8" ROD	1"X18 GAUGE	2"X2"X3/16"	8'-0"
97" THRU 120"	3/8" ROD	1"X16 GAUGE	2"X2"X1/4"	8'-0"

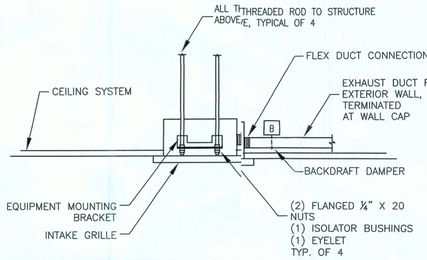
RETANGULAIR DUCT HANGERS
NOT TO SCALE



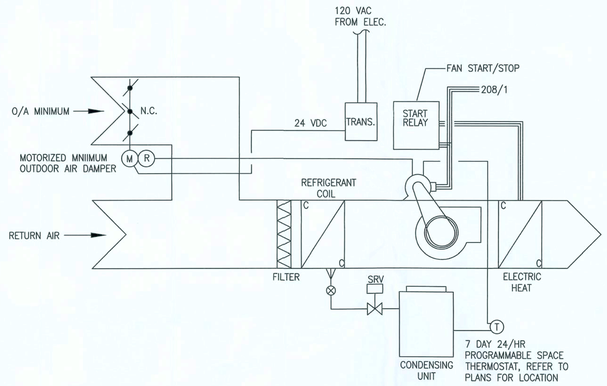
CEILING DIFFUSER DETAIL
NOT TO SCALE



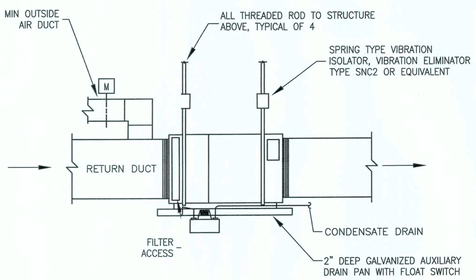
CONDENSNG UNIT MOUNTIN; DETAIL
NOT TO SCALE



EXHAUST FAN MOUNTING DETAIL
NOT TO SCALE



CONTROL SCHEMATIC - AHU-3
NOT TO SCALE



HORIZONTAL AHU-1 AND 2 DETAIL
NOT TO SCALE

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:

I-75 TRUCK STOP - REPAIR CENTER

ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
818 WEST DUVAL STREET. LAKE CITY. FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

Celebrating 107 Years
1912 - 2019
N.P. Geisler, Architect
AR0007005

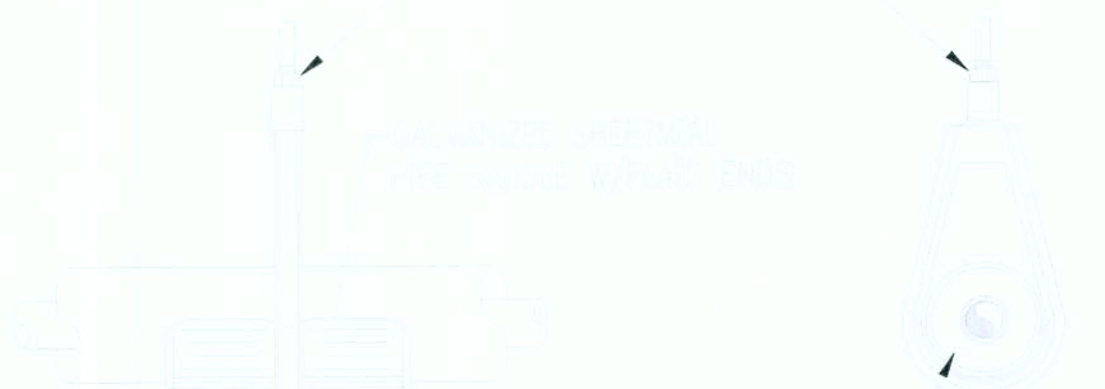
NICHOLAS PAUL GEISLER
ARCHITECT
N.C.A.R.B. Certified
1784 NW Boca Raton Blvd.
Lake City, FL 32055
386-365-1355

DATE:
7th DECEMBER 2019

COMM:

SHEET:
M.3
1 OF 15

AR0007005



INSULATED PIPE HANGER DETAIL

NOT TO SCALE

PLUMBING MATERIAL SPECIFICATIONS

SANITARY WASTE AND VENT PIPING:
TUBE: PVC SCHEDULE 40 DWV, ASTM D 1785, FOAM CORE NOT ACCEPTED
FITTINGS: PVC PLASTIC FITTINGS, SCHEDULE 40, ASTM D 2466, FOAM CORE NOT ACCEPTED
JOINTS: SOLVENT CEMENTS FOR PVC PIPE AND FITTINGS, ASTM D 2564. FOAM CORE NOT ACCEPTED
PROVIDE FIRE WRAP FOR PVC PIPE IN PLENUM CEILING AREAS, 3M FIRE BARRIER PLENUM WRAP 5A OR EQUAL

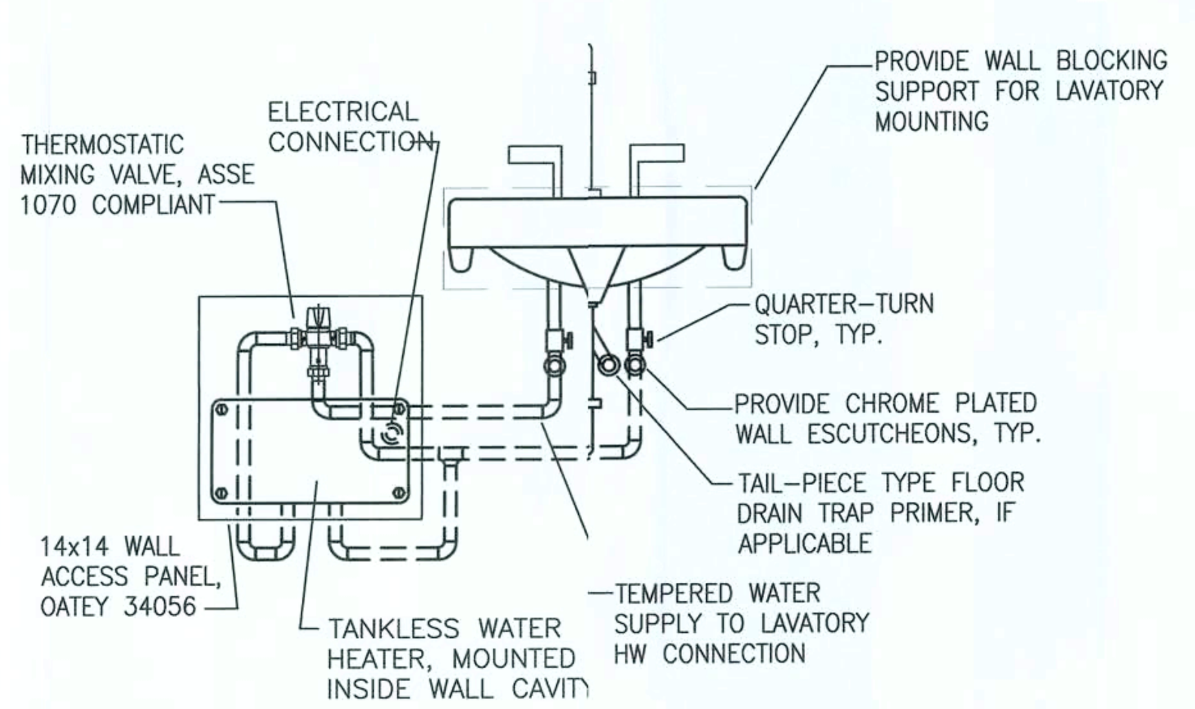
DOMESTIC WATER PIPING:
TUBE: CPVC, CTS PIPE, PLASTIC HOT AND COLD WATER DISTRIBUTION SYSTEMS, ASTM D2846
FITTINGS: CPVC PLASTIC FITTINGS, ASTM F438.
JOINTS: SOLVENT CEMENTS FOR CPVC PIPE AND FITTINGS, ASTM F493

VALVES
ALL VALVES FOR DOMESTIC HOT AND COLD WATER DRISTRIBUTION SYSTEM SHALL BE CONFORM TO REQUIREMENTS OF ASTM D 2846. OPERATING PRESSURE SHALL NOT EXCEED 80% OF THE VALVE PRESSURE CLASS.

INSULATION
PROVIDE 1" ELASTOMERIC INSULATION FOR ABOVE-GRADE DOMESTIC HOT WATER PIPING AND COLD WATER PIPING IF LOCATED IN VENTED ATTIC SPACE.

SUPPORTS
PROVIDE PIPING HANGERS AND SUPPORTS SIZED AND SPACED PER CURRENT FBC 2014 AND PROVIDE 6" SADDLES UNDER ALL INSULATED PIPING.

SHOCK ARRESTORS
PROVIDE SHOCK ARRESTORS PER CODE SIZED TO PDI STANDARDS. AIR CHAMBERS ARE NOT ACCEPTABLE.



NOTES:
1. WATER HEATER AND TMV VALVE AND ALL ASSOCIATED PIPING SHALL BE RECESSED WITHIN THE WALL CAVITY, COORDINATE WITH THE G.C. FOR EXTRA WALL FURRING AS REQUIRED FOR ADEQUATE SPACE. PROVIDE BLOCKING TO MOUNT HEATER AND TMV AS REQUIRED.
2. THE ONLY EXPOSED PIPING SHALL BE THE COLD, TEMPERED, TRAP PRIMER (IF APPLICABLE), AND DRAIN FOR THE LAVATORY, ALL PIPING HELD AS HIGH AS POSSIBLE
3. DROP-IN STYLE LAVATORY SIMILAR, PROVIDE TMV.
4. PROVIDE LAV-GUARD INSULATION KIT FOR ALL EXPOSED PIPING.

SINK DETAIL

NOT TO SCALE

PLUMBING FIXTURE SCHEDULE

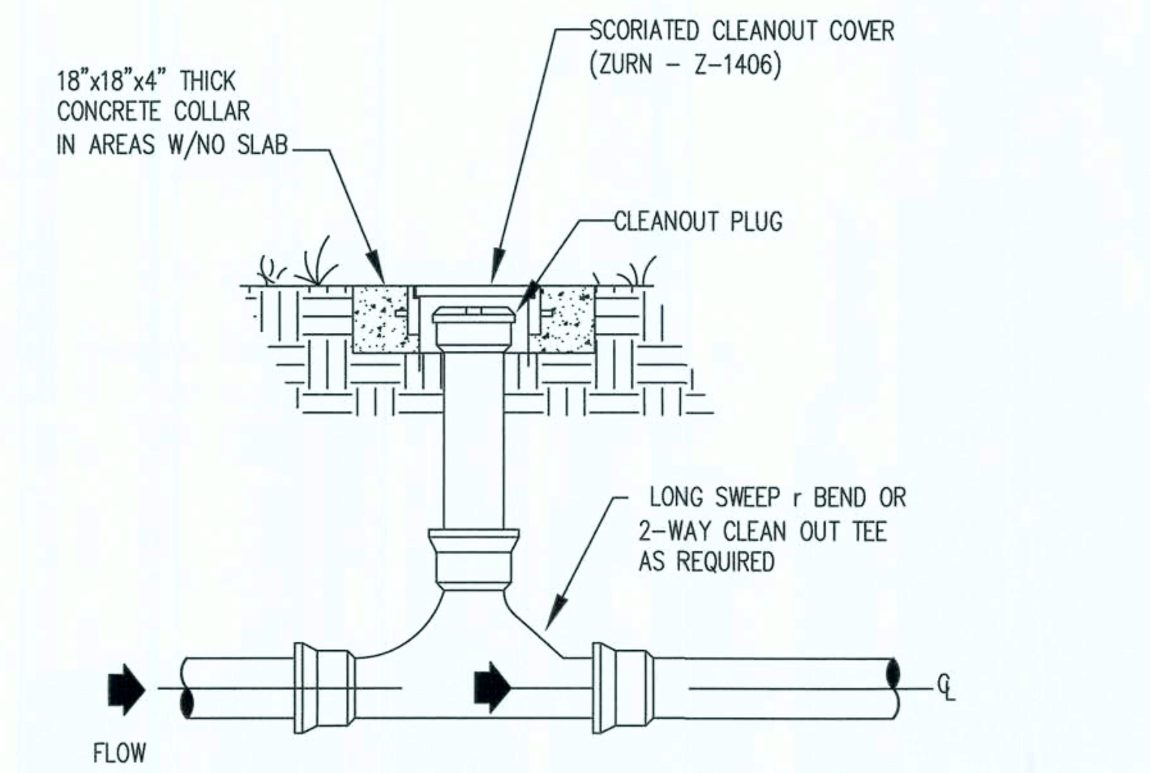
FIXTURE	DESCRIPTION	MANUFACTURER	WASTE	CW	HW
WC-1	WATER CLOSET, ADA 17-1/8" HEIGHT, ELONGATED TOILET. VITREOUS CHINA, FLOOR MOUNTED, FLOOR OUTLET, FLUSH TANK TYPE, LOW CONSUMPTION 1.6 GPF. SEAT INSTALLED MIN. 18" FROM FINISH FLOOR TO TOP OF SEAT SEAT: EXTRA HEAVY DUTY PLASTIC, OPEN FRONT SEAT LESS COVER WITH CONCEALED CHECK AND STAINLESS STEEL HINGE POST. STOP: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOP, CHROME PLATED STEEL FLANGE AND 12" FLEXIBLE CHROME PLATED COPPER WATER CLOSET RISER. ACCESSORIES: HEAVY DUTY WAX BOWL RING. WAX GASKET FOR SETTING ANY FLOOR TYPE WATER CLOSET BOWL.	KOHLER K-3979 BEMIS CHURCH OLSONITE McGUIRE MANUFACTURING OATEY 31190	3"	1/2"	–
L-1	LAVATORY, ADA WALL HUNG LAVATORY, VITREOUS CHINA, FAUCET HOLES ON 4" CENTERS. FAUCET: ADA COMPLIANT, SENSOR ACTIVATED, 24 VAC, CHROME PLATED BRASS, HAND WASHING FAUCET WITH THE FOLLOWING FEATURES: - SPLASH-PROOF CIRCUIT CONTROL MODULE - SENSOR RANGE ADJUSTMENT SCREW - TROUBLESHOOTING LED INDICATOR LIGHTS - VARIABLE TIME OUT SETTINGS - FILTERED SOLENOID VALVE WITH SERVICEABLE STRAINER FILTER - 120 VAC/24 BOX MOUNT VAC TRANSFORMER TEMPERED WATER: PROVIDE WATER TEMPERATURE LIMITING DEVICE (THERMOSTATIC MIXING VALVE) THAT CONFORMS TO ASSE 1070 PER FPC 416.5 STOPS/ACCESSORIES: 1/2" CHROME PLATED BRASS WHEEL HANDLE ANGLED STOP, CHROME PLATED STEEL FLANGE AND 12" FLEXIBLE CHROME PLATED COPPER LAVATORY RISERS. GRID DRAIN WITH OFFSET TAILPIECE AND CHROME PLATED P-TRAP MOUNT AT HANDICAPPED HEIGHT, PROVIDE BLOCKING IN WALL FOR MOUNTING OF LAVATORY SUPPLY LAV-GUARD INSULATION KIT.	KOHLER K-2032 SLOAN ETF-80 WATTS MMV McGUIRE MANUFACTURING TRUEBRO MODEL#102G TRUEBRO #102G	1-1/4"	1/2"	1/2"
HB	HOSE BIBB FROST-PROOF, ANTI-SIPHON WALL HYDRANT	ZURN Z1321	–	3/4"	–

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2017 FLORIDA BUILDING CODE – PLUMBING, NFPA 70, NFPA 101, AND THE AMERICAN DISABILITIES ACT (ADA).
2. PLANS ARE NOT COMPLETELY TO SCALE. PIPE ROUTING SHOWN IS SCHEMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTING AND ANY ADDITIONAL OFFSETS AND FITTINGS REQUIRED FOR PROPER INSTALLATION AND TO MAINTAIN CLEARANCES. VERIFY STRUCTURAL, MECHANICAL AND ELECTRICAL INSTALLATIONS AND OTHER POTENTIAL OBSTRUCTIONS AND ROUTE PIPING TO AVOID INTERFERENCES.
3. SLEEVE AND FIRE STOP PENETRATIONS OF RATED WALLS, FLOORS, CEILINGS AND ROOFS. FLASH AND COUNTERFLASH ROOF PENETRATIONS.
4. PROVIDE SIX SETS (GC DETERMINE EXACT QUANTITY) OF SHOP DRAWINGS OF PLUMBING FIXTURES, PIPING MATERIALS/FITTINGS, INSULATION, VALVES, AND EQUIPMENT FOR REVIEW BY ENGINEER OF RECORD. SHOP DRAWINGS SHALL BE ASSEMBLED BY THE CONTRACTOR IN A BOUND BOOKLET AND BE COMPLETE INCLUDING ALL ITEMS REQUIRED IN THE PLUMBING CONTRACT. IN-COMPLETE BOOKLETS PUT TOGETHER BY A FIXTURE MANUFACTURER WILL BE REJECTED AND RETURNED.
5. PLUMBING SERVICE ROUTING IS BASED ON SITE LIMITED SITE VISIBILITY, AS NO AS-BUILT DRAWINGS EXIST FOR THE FACILITY. PLUMBING CONTRACTOR TO DETERMINE SITE SPECIFIC SERVICE ROUTING AND SERVICE FLOW PRIOR TO TIE-IN AND NEW SERVICE LAYOUT.

ELECTRIC WATER HEATER SCHEDULE

TAG	SERVICE	MANUFACTURER AND MODEL NO.	TYPE	GALLONS	RECOVERY	POWER	ELEMENTS/WATTS	AMPS	NOTES
TWH-1	LAV'S	BOSCH TRONIC 3000	ELECTRIC	N/A	N/A	208 V 1 PH	1/3000W	–	1/2" NPT INLET & OUTLET



2-WAY EXTERIOR CLEANOUT DETAIL

NOT TO SCALE

PLUMBING LEGEND

ABBREVIATIONS & SYMBOLS:

Symbol	Description
	WALL CLEAN OUT
	FLOOR CLEAN OUT
A/C	ABOVE CEILING
AP	ACCESS PANEL
B/G	BELOW GROUND
B/F	BELOW FLOOR
BFP	BACK FLOW PREVENTER
EX.	EXISTING
HD	HUB DRAIN
VTR	VENT THROUGH ROOF
TP	TRAP PRIMER
WH	WATER HEATER
FW	FILTERED WATER
COOG	CLEANOUT ON GRADE
WCO	WALL CLEANOUT
FCO	FLOOR CLEANOUT
	POINT OF CONNECTION – NEW WORK TO EXISTING

PLUMBING FIXTURES:

Symbol	Description
FD	FLOOR DRAIN
WH	WALL HYDRANT
HB	HOSE BIBB
L	LAVATORY
MS	MOP SINK
S	SINK
SA–A	SHOCK ARRESTOR – P.P.I SIZE
SS	SERVICE SINK
TMV	THERMOSTATIC MIXING VALVE
UR	URINAL
WC	WATER CLOSET
WB	WASHER BOX
TMV	THERMOSTATIC MIXING VALVE
GI	GREASE INTERCEPTOR

PIPING & VALVES:

GAS PIPING (G)
NEW SANITARY (S)
NEW COLD WATER (CW)
HOT WATER (110°F)
NEW VENT (V)
EXISTING SANITARY (S)
EXISTING COLD WATER (CW)
EXISTING HOT WATER (HW)

BALL VALVE
BUTTERFLY VALVE
GATE VALVE
GLOBE VALVE
STRAINER
PIPE UNION
CHECK VALVE
ASME PRESSURE/TEMPERATURE RELIEF VALVE
TEMPERED WATER MIXING VALVE
PIPE UP
PIPE DOWN
SHOCK ARRESTOR

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
818 WEST DUVAL STREET, LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

Celebrating 41 Years of Service
1972 - 2019
N.P. Geisler, Architect
AR0007005

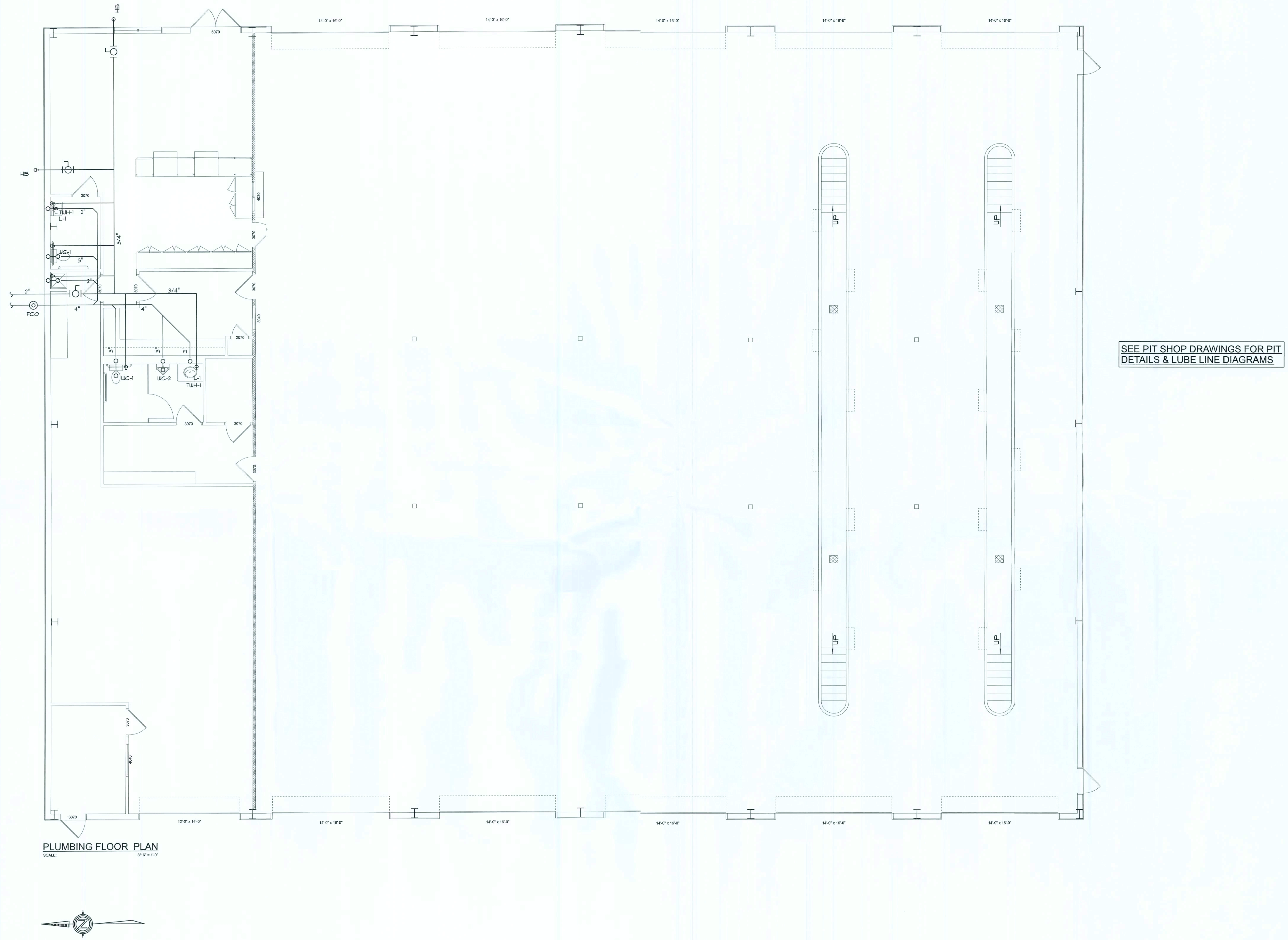
NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

DATE:
7th DECEMBER 2019

COMM:

SHEET:
P.1
12 OF 15

04NOV2020
AR0007005



PLUMBING FLOOR PLAN

SCALE: 3/16" = 1'-0"

REVISION:
MAY 6th, 2020
JUNE 24th, 2020
JULY 1st, 2020
JULY 21st, 2020
SEPT 1st, 2020
OCT. 14th, 2020

DRAWN:

PROPOSED BUILDINGS FOR:

I-75 TRUCK STOP - REPAIR CENTER

ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
566 SW ARLINGTON BLVD, STE 101, LAKE CITY, FL 32025
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

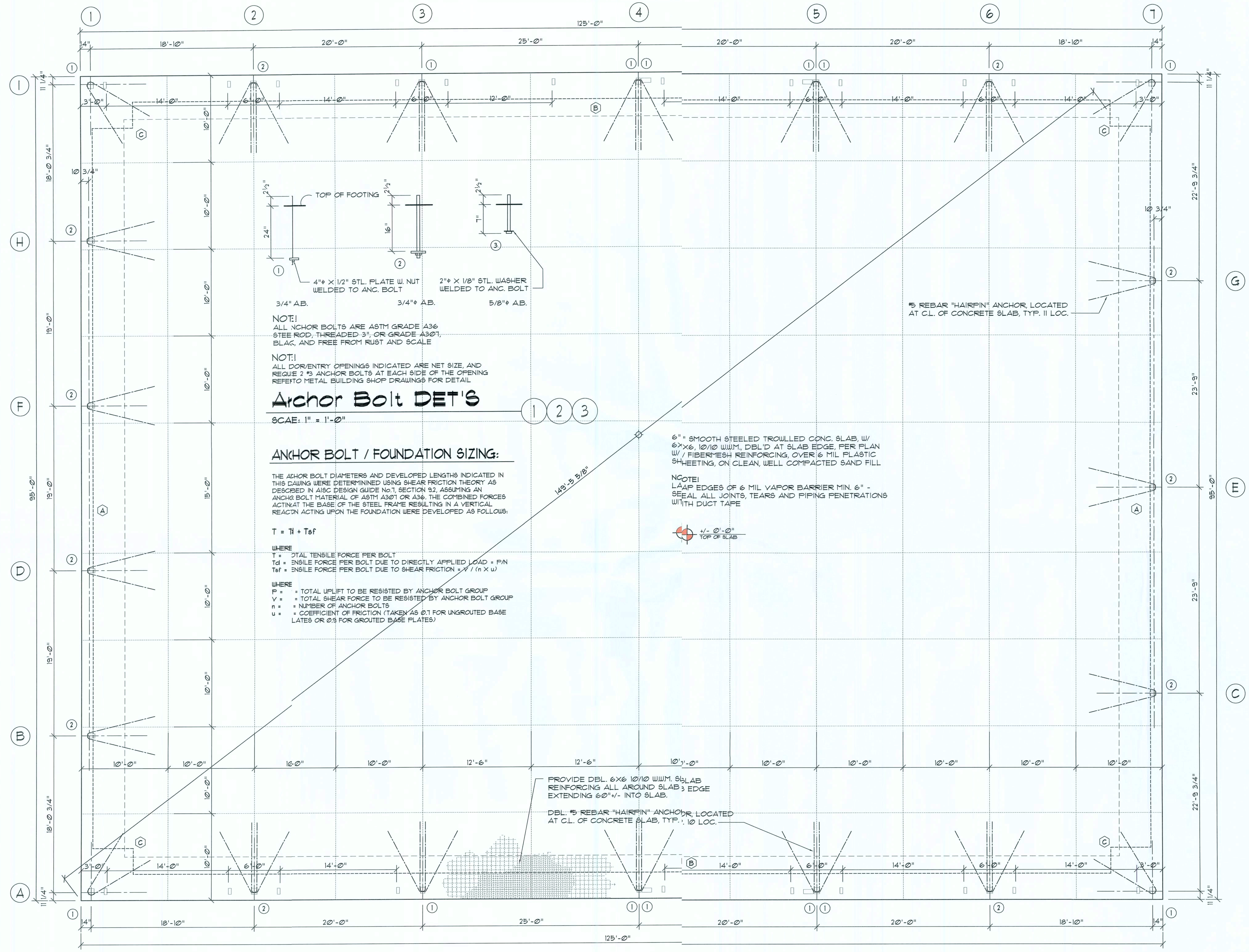
Celebrating ... 1972 - 2019
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified

DATE: 9th MARCH 2020
COMM:

SHEET: P.2
3 OF 15

AR0007005


125'-0"
18'-10"
20'-0"
25'-0"
20'-0"
20'-0"
18'-10"
95'-0"
TOP OF FOOTING
3/4" A.B.
3/4"ϕ A.B.
5/8"ϕ A.B.
4"ϕ X 1/2" STL. PLATE W. NUT WELDED TO ANC. BOLT
2"ϕ X 1/8" STL. WASHER WELDED TO ANC. BOLT
NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3", OR GRADE A307, BLACK, AND FREE FROM RUST AND SCALE
NOTE!
ALL DOOR/ENTRY OPENINGS INDICATED ARE NET SIZE, AND REQUIRE 2 #3 ANCHOR BOLTS AT EACH SIDE OF THE OPENING REFER TO METAL BUILDING SHOP DRAWINGS FOR DETAIL
Anchor Bolt DET'S
SCALE: 1" = 1'-0"
ANCHOR BOLT / FOUNDATION SIZING:
THE ANCHOR BOLT DIAMETERS AND DEVELOPED LENGTHS INDICATED IN THIS DRAWING WERE DETERMININED USING SHEAR FRICTION THEORY AS DESCRIBED IN AISC DESIGN GUIDE No.7, SECTION 9.2, ASSUMING AN ANCHOR BOLT MATERIAL OF ASTM A307 OR A36. THE COMBINED FORCES ACTING AT THE BASE OF THE STEEL FRAME RESULTING IN A VERTICAL REACTION ACTING UPON THE FOUNDATION WERE DEVELOPED AS FOLLOWS:
T = Td + Tsf
WHERE
T = TOTAL TENSILE FORCE PER BOLT
Td = TENSILE FORCE PER BOLT DUE TO DIRECTLY APPLIED LOAD = P/N
Tsf = TENSILE FORCE PER BOLT DUE TO SHEAR FRICTION = V / (n X u)
WHERE
P = = TOTAL UPLIFT TO BE RESISTED BY ANCHOR BOLT GROUP
V = = TOTAL SHEAR FORCE TO BE RESISTED BY ANCHOR BOLT GROUP
n = = NUMBER OF ANCHOR BOLTS
u = = COEFFICIENT OF FRICTION (TAKEN AS 0.7 FOR UNGROUTED BASE PLATES OR 0.9 FOR GROUTED BASE PLATES)
149'-5 5/8"
#5 REBAR "HAIRPIN" ANCHOR, LOCATED AT C.L. OF CONCRETE SLAB, TYP. 11 LOC.
6" SMOOTH STEELED TROWLLED CONC. SLAB, W/ 6X6, 10/10 W.W.M., DBL'D AT SLAB EDGE, PER PLAN W/ FIBERMESH REINFORCING, OVER 6 MIL PLASTIC SHEETING, ON CLEAN, WELL COMPACTED SAND FILL
NOTE!
LAP EDGES OF 6 MIL VAPOR BARRIER MIN. 6" - SEAL ALL JOINTS, TEARS AND PIPING PENETRATIONS WITH DUCT TAPE
+/- 0'-0"
TOP OF SLAB
PROVIDE DBL. 6X6 10/10 W.W.M. SLAB REINFORCING ALL AROUND SLAB EDGE EXTENDING 60"+/- INTO SLAB.
DBL. #5 REBAR "HAIRPIN" ANCHOR, LOCATED AT C.L. OF CONCRETE SLAB, TYP. 10 LOC.

Foundation PLAN

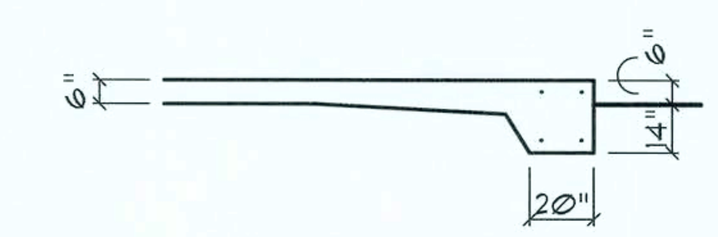
SCALE: 3/16" = 1'-0"

FOOTING SCHEDULE

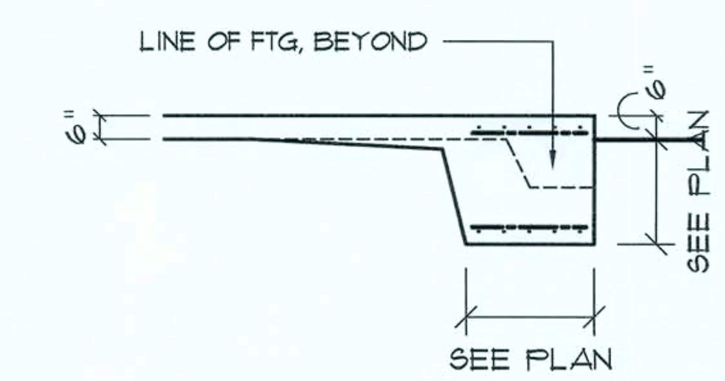
(A) 20" X 20" X CONTINUOUS, FOOTING, W/ 2 #5 REBAR, TOP & BOTTOM, CONT., LAP SPLICE ALL REBAR A MINIMUM OF 40 BAR DIAMETERS - TYPICAL

(B) 36" X 36" X CONTINUOUS, FOOTING, W/ 7#5 REBAR, TOP & BOTTOM, CONT., LAP SPLICE ALL REBAR A MINIMUM OF 40 BAR DIAMETERS - TYPICAL

(C) 72" X 72" X 36", FOOTING, W/ 11 #5 REBAR, TOP & BOTTOM, EACH WAY & BATTER SIDES OF FOOTING MIN. 15° - SEE SLAB DETAIL, BELOW



FOOTING @ SLAB EDGE
SCALE: 1/4" = 1'-0"



FOOTING @ MAIN FRAMES
SCALE: 1/4" = 1'-0"

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
818 WEST DUVAL STREET, LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

Celebrating 47 Years of Service
1972 - 2019
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

DATE:
7th DECEMBER 2019
COMM:

SHEET:
S.1
14 OF 15

AR0007005

FIELD "AS-BUILT" NOTES

STRUCTURAL DESIGN CRITERIA:

1. THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.

2. WIND LOAD CRITERIA: RISK CATAGORY: 2, EXPOSURE "C"

BASED ON ANSI/ASCE 7-10. 2017 FBC 1609-A WIND VELOCITY: V_{ULT} = 120 MPH
V_{ASD} = 98 MPH

3. ROOF DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . 20 PSF
SUPERIMPOSED LIVE LOADS: . . . . 20 PSF

4. FLOOR DESIGN LOADS:
SUPERIMPOSED DEAD LOADS: . . . . 25 PSF
SUPERIMPOSED LIVE LOADS:
COMMERCIAL . . . . 100 PSF
BALCONIES/CORRIDORS . . . . 80 PSF

5. WIND NET UPLIFT: ARE AS INDICATED ON PLANS

BUILDING COMPONENTS & CLADDING LOADS
MEAN BUILDING HEIGHT = 30.0', EXPOSURE "B"

	ZONE	AREA	Vult 110 MPH	Vult 120 MPH	Vult 130 MPH	Vult 140 MPH
ROOF 7° TO 27°	1	10	12.0 / -19.9	14.9 / -23.7	17.5 / -27.8	20.3 / -32.3
	1	20	11.4 / -19.4	13.6 / -23.0	16.0 / -27.0	18.5 / -31.4
	1	50	10.0 / -18.6	11.9 / -22.2	13.9 / -26.0	16.1 / -30.2
	2	10	12.5 / -34.7	14.9 / -41.3	17.5 / -48.4	20.3 / -56.2
	2	20	11.4 / -31.9	13.6 / -38.0	16.0 / -44.6	18.5 / -51.7
	2	50	10.0 / -28.2	11.9 / -33.6	13.9 / -39.4	16.1 / -45.7
	3	10	12.5 / -51.3	14.9 / -61.0	17.5 / -71.6	20.3 / -83.1
	3	20	11.4 /-47.9	13.6 / -57.1	16.0 / -67.0	18.5 / -77.7
	3	50	10.0 / -43.5	11.9 / -51.8	13.9 / -60.8	16.1 / -70.5
WALL	4	10	21.8 / -23.6	25.9 / -34.7	30.4 / -33.0	35.3 / -38.2
	4	20	20.8 / -22.6	24.7 / -26.9	29.0 / -31.6	33.7 / -36.7
	4	50	19.5 / -21.3	23.2 / -25.4	27.2 / -29.8	31.6 / -34.6
	5	10	21.8 / -29.1	25.9 / -34.7	30.4 /-40.7	35.3 / -47.2
	5	20	20.8 / -27.2	24.7 / -32.4	29.0 / -38.0	33.7 / -44.0
	5	50	19.5 / -24.6	23.2 / -29.3	27.2 / -34.3	31.6 / -39.8

HEIGHT & EXPOSURE ADJUSTMENT COEFFICIENTS
FOR BUILDING COMPONENTS & CLADDING

BLDG HEIGHT	EXPOSURE "B"	EXPOSURE "C"	EXPOSURE "D"
15	1.00	1.21	1.47
20	1.00	1.29	1.55
25	1.00	1.35	1.61
30	1.00	1.40	1.66

NOTE!
REFER TO THE METAL BUILDING SHOP DRAWINGS PREPARED BY MESCO CORPORATION, FOR EXACT LOCATION OF ALL EMBEDDED ANCHOR BOLTS.

NOTE!
ADDED FILL SHALL BE APPLIED IN 12" LIFTS - EA. LIFT SHALL BE CONPACTED TO 98% DRY COMPACTION PER THE "MODIFIED PROCTOR" METHOD.

NOTE!
THE DESIGN WIND SPEED FOR THIS PROJECT IS 120 MPH PER 2017 FBC 6th ED. 1609 AND LOCAL JURISDICTION REQUIREMENTS

NOTE!
ALL ANCHOR BOLTS ARE ASTM GRADE A36 STEEL ROD, THREADED 3 1/2", BLACK AND FREE FROM RUST AND SCALE

NOTE!
THIS PROJECT IS TYPE 5 UNPROTECTED CONSTRUCTION PER 2017 FBC TABLE 503 AND TABLE 600

GENERAL STRUCTURAL NOTES

GENERAL:

1. THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT, DESIGN AND EXTENT OF THE WORK AND ARE PARTIALLY DIAGRAMMATIC. THEY ARE NOT INTENDED TO BE SCALED FOR ROUGH-IN MEASUREMENTS, OR TO SERVE AS SHOP DRAWINGS OR PORTIONS THEREOF.

2. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL BE CONSTRUED TO APPLY TO ANY SIMILAR SITUATION ELSEWHERE ON THE PROJECT, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.

3. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR AND ALL THE SUBCONTRACTORS SHALL VERIFY ALL GRADES, LINES, LEVELS, DIMENSIONS AND COORDINATE EXISTING CONDITIONS AT THE JOB SITE WITH THE PLANS AND SPECIFICATIONS. THEY SHALL REPORT ANY INCONSISTENCIES OR ERRORS IN THE ABOVE TO THE ARCHITECT/ENGINEER BEFORE COMMENCING WORK. THE CONTRACTOR AND HIS SUBCONTRACTORS SHALL LAY OUT THEIR WORK FROM ESTABLISHED REFERENCE POINTS AND BE RESPONSIBLE FOR ALL LINES, ELEVATIONS AND MEASUREMENTS IN CONNECTION WITH THEIR WORK.

4. IF ANY ERRORS OR OMISSIONS APPEAR IN THE DRAWINGS, GENERAL NOTES OR OTHER DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF SUCH OMISSION OR ERROR PRIOR TO PROCEEDING WITH ANY WORK WHICH APPEARS IN QUESTION. IN THE EVENT OF THE CONTRACTOR'S FAILING TO GIVE SUCH AN ADVANCED NOTICE, HE SHALL BE HELD RESPONSIBLE FOR THE RESULTS OF ANY SUCH ERRORS OR OMISSIONS AND THE COST OF RECTIFYING THE SAME.

5. THE CONTRACTOR SHALL USE THE STRUCTURAL DRAWINGS AND SPECIFICATIONS TOGETHER WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER TRADE DRAWINGS AND SHOP DRAWINGS, TO LOCATE DEPRESSED SLABS, SLOPES, DRAINS, OUTLETS, RECESSES, OPENINGS, BOLT SETTING, SLEEVES, DIMENSIONS, ETC. NOTIFY ARCHITECT/ENGINEER, IN WRITING, OF ANY POTENTIAL CONFLICTS BEFORE PROCEEDING WITH THE WORK.

SHOP DRAWINGS AND DELEGATED ENGINEERING:

1. ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR ARCHITECT'S REVIEW ONLY AFTER THEY HAVE BEEN THOROUGHLY REVIEWED BY THE CONTRACTOR FOR CONSTRUCTION METHODS, DIMENSIONS AND OTHER TRADE REQUIREMENTS, AND STAMPED WITH THE CONTRACTOR'S APPROVAL STAMP. THE ARCHITECT ASSUMES NO RESPONSIBILITY FOR DIMENSIONS, QUANTITIES, ENGINEERING DESIGN BY DELEGATED ENGINEERS, ERRORS OR OMISSIONS AS A RESULT OF REVIEWING ANY SHOP DRAWINGS. ANY ERRORS OR OMISSIONS MUST BE MADE GOOD BY THE CONTRACTOR, IRRESPECTIVE OF RECEIPT, CHECKING OR REVIEW OF DRAWINGS BY THE ENGINEER AND EVEN THOUGH WORK IS DONE IN ACCORDANCE WITH SUCH DRAWINGS.

2. BEFORE STRUCTURAL INSPECTIONS CAN BE MADE ON A PORTION OF THE STRUCTURE, ALL RELATED SHOP DRAWINGS, DELEGATED ENGINEERING, PRODUCT APPROVAL, MANUFACTURER'S DATA AND OTHER RELATED INFORMATION, MUST BE REVIEWED AND ACCEPTED BY THE ARCHITECT-OF-RECORD AND APPROVED BY THE BUILDING DEPARTMENT.

3. SHOP DRAWINGS SHALL CONTAIN ALL INFORMATION SHOWN ON THE STRUCTURAL PLANS (RELATED TO THE DELEGATED DESIGN) INCLUDING ALL DESIGN LOADS, IN ADDITION TO THE INFORMATION REQUIRED BY THE DELEGATED ENGINEER'S DESIGN.

4. ARCHITECT WILL REVIEW ALL SUBMITTED SHOP DRAWINGS, PREPARED AND SIGNED AND SEALED BY THE CONTRACTOR'S DELEGATED ENGINEER, ONLY FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT, REQUIRED LOADING AND COORDINATION WITH THE STRUCTURAL DESIGN.

5. CONTRACTOR SHALL SUBMIT TO THE ARCHITECT TWO SETS OF BLUE PRINTS OF THE STRUCTURAL SHOP DRAWINGS FOR ARCHITECT REVIEW, BEFORE STARTING FABRICATION. THE ARCHITECT WILL RETURN ONE MARKED UP AND STAMPED COPY TO THE CONTRACTOR. THE MARKED-UP COPY SHALL BE USED TO MAKE THE PRINTS REQUIRED FOR SHOP DRAWING DISTRIBUTION.

CONSTRUCTION MEANS AND METHODS:

1. THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, SAFETY PRECAUTIONS, SHORES, RESHORES, LATERAL BRACING AND PROGRAMS IN CONNECTION WITH THE PROJECT, ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. OUR SERVICES DO NOT GUARANTEE NOR ASSURE LIABILITY FOR THE JOB SAFETY, TEMPORARY SHORING AND BRACING AND THE PERFORMANCE OF THE CONTRACTOR.

2. THE CONTRACTOR IS RESPONSIBLE AND SHALL COMPLY WITH THE SAFETY REQUIREMENTS OF THE 2010 FLORIDA BUILDING CODE AND APPLICABLE LOCAL, STATE AND FEDERAL LAWS.

3. PROVIDE ALL SHORING, BRACING AND SHEETING AS REQUIRED FOR SAFETY, STRUCTURAL STABILITY AND FOR THE PROPER EXECUTION OF THE WORK. REMOVE WHEN WORK IS COMPLETED.

4. PROVIDE AND MAINTAIN GUARD LIGHTS AT ALL BARRICADES, RAILINGS, OBSTRUCTIONS IN THE STREETS, ROADS OR SIDEWALKS AND ALL TRENCHES OR PITS ADJACENT TO PUBLIC WALKS OR ROADS.

5. AT ALL TIMES, PROVIDE PROTECTION AGAINST WEATHER (RAIN, WIND, STORMS OR THE SUN), SO AS TO MAINTAIN ALL WORK, MATERIALS, APPARATUS AND FIXTURES FREE FROM INJURY OR DAMAGE.

6. AT THE END OF THE DAYS WORK, COVER ALL WORK LIKELY TO BE DAMAGED. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION SHALL BE REMOVED AND REPLACED WITH NEW WORK AT THE CONTRACTOR'S EXPENSE.

7. THE CONTRACTOR SHALL PAY FOR ALL DAMAGES TO ADJACENT STRUCTURES, SIDEWALKS AND TO STREETS OR OTHER PUBLIC PROPERTY OR PUBLIC UTILITIES.

FOUNDATIONS: (SPREAD FOOTINGS)

1. FOUNDATIONS ARE DESIGNED TO BEAR ON WELL COMPACTED GRADE OR CLEAN FILL OF AN ALLOWABLE BEARING CAPACITY OF 1,000 PSF MINMUM. FOR REQUIRED SOIL BEARING CAPASITIES GREATER THAN 1,000 PSF, A CERTIFIED TESTING LABORATORY SHALL BE ENGAGED BY THE OWNER TO VERIFY THAT THE REQUIRED BEARING CAPACITY WAS OBTAINED. SAID SOIL CAPACITY SHALL BE CERTIFIED AND TESTED BY A FLORIDA REGISTERED FOUNDATION ENGINEER, PRIOR TO CASTING OF CONCRETE IN THE FOOTINGS.

2. NATURAL GRADE (OR FILL) BELOW FOOTINGS SHALL BE COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557).

3. TOP OF WALL FOOTINGS TO BE AT THE SAME ELEVATION AS TOP OF COLUMN PAD FOOTINGS. STEP WALL FOOTING FROM HIGHER COLUMN FOOTING TO THE LOWER ONE (AS DETAILED ON THE PLANS).

4. BOTTOM OF ALL FOOTINGS TO BE A MINIMUM 1'-6" BELOW THE TOP OF CONCRETE SLAB ON GRADE (UNLESS OTHERWISE NOTED) OR MINIMUM 1'-0" BELOW FINISHED GRADE, WHICHEVER IS LOWER. IN THE EVENT THAT THE SLAB STEPS ON EACH SIDE OF THE FOOTING, THE FOOTING SHALL BE 1'-6" BELOW TOP OF THE LOWER SLAB.

5. REINFORCING IN THE CONTINUOUS WALL FOOTINGS (MONOLITHIC AND NON-MONOLITHIC) SHALL BE SPLICED 40 BAR DIAMETERS MINIMUM AND SHALL EXTEND CONTINUOUSLY THRU ALL FOOTING PADS.

6. ALL LONGITUDINAL REBARS IN THE CONTINUOUS WALL FOOTINGS, SHALL BE CONTINUED AT BENTS AND CORNERS BY BENDING THE REBARS 48 BAR DIAMETERS AROUND THE CORNERS OR ADDING MATCHING CORNER BARS, EXTENDING 48 BAR-DIAMETERS INTO FOOTING EACH SIDE OF CORNER OR BENT.

7. ALL FOOTINGS SHALL BE 12" MINIMUM THICKNESS.

8. WHEN GEO-TECHNICAL REPORTS ARE PROVIDED, ALL RECOMENDATIONS OF THE SOILS ENGINEER SHALL BE FOLLOWED AND THE DESIGN SOIL BEARING PRESSURE SHALL BE AS RECOMMENDED IN SUCH REPORTS, AND SUPERCEEDS PRESSURES INDICATED HEREIN.

CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES THICK MINIMUM REINFORCED WITH 6 X 6 - W1.4 X W1.4 WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).

2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I - "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. - 302.1R)

3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT LOC. INDICATED ON THE PLANS DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).

5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE DENSITY TEST FOR EACH 1,600 SQ.FT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

CONCRETE AND REINFORCING:

1. CONCRETE DESIGN AND REINFORCEMENT IN ACCORDANCE WITH "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (A.C.I. 318 - LATEST EDITION) AND WITH "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" - (A.C.I. 315 - LATEST EDITION).

2. ALL CONCRETE WORK IN ACCORDANCE WITH "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING" (A.C.I. 301 - LATEST EDITION). PRODUCTION OF CONCRETE, DELIVERY, PLACING AND CURING TO BE IN ACCORDANCE WITH "HOT WEATHER CONCRETING" (A.C.I. 305R - LATEST EDITION).

3. ALL CONCRETE TO BE REGULAR WEIGHT WITH A DESIGN STRENGTH OF 3,000 P.S.I. AT 28 DAYS. MAXIMUM SLUMP 5".

4. ALL REINFORCING TO BE NEW BILLET STEEL CONFORMING TO THE LATEST A.S.T.M. A-615 GRADE 60, FABRICATED IN ACCORDANCE WITH C.R.S.I. MANUAL OF STANDARD PRACTICE AND PLACED IN ACCORDANCE WITH A.C.I. 315 AND C.R.S.I. MANUAL OF STANDARD PRACTICE.

5. CONCRETE COVER UNLESS OTHERWISE DETAILED ON DRAWINGS:

FOOTINGS:	(BOTTOM).	3"
	(TOP & SIDES)	2"
SLABS ON GRADE:	CENTERED W/SLAB	

6. BEAM REINFORCEMENT: LAPPED 36 BAR DIAMETER OR MINIMUM 18 INCHES. BOTTOM BARS SPLICED ONLY AT SUPPORTS, TOP BARS SPLICED ONLY AT MID-SPAN. ALL TOP BARS HOOKED AT NONCONTINUOUS EDGES (U.O.N.). ALL HOOKS TO BE STANDARD 90 DEGREE HOOKS AS REQUIRED (U.O.N.).

7. ADDED REINFORCEMENT: PROVIDE ADDITIONAL CORNER BARS BENT 36 INCHES MINIMUM EACH WAY AT "L" AND "T" CORNERS IN OUTER FACES OF ALL BEAMS TO MATCH ALL HORIZONTAL BAR (TOP, BOTTOM AND INTERMEDIATE REBARS).

8. SEE PLAN FOR MINIMUM SIZE CONCRETE TIE BEAM REQUIREMENTS.

REVISION:

DRAWN:

PROPOSED BUILDINGS FOR:
I-75 TRUCK STOP - REPAIR CENTER
ELLISVILLE, FLORIDA 32024

RIDGEPOINT DESIGN
818 WEST DUVAL STREET, LAKE CITY, FLORIDA 32055
P: 386-288-1188
E: RIDGEPOINTDESIGN@GMAIL.COM

Celebrating 47 Years of Service
1972 - 2019
N.P. Geisler, Architect
AR0007005

NICHOLAS PAUL GEISLER ARCHITECT
N.C.A.R.B. Certified
1758 NW Brown Rd.
Lake City, FL 32055
386-365-4355

DATE: 7th DECEMBER 2019

COMM:

SHEET:
S.2
15 OF 15

AR0007005