

CONTRACTOR RESPONSIBILITY

CONTRACTOR RESPONSIBILITY WILL CONTAIN BUT NOT BE LIMITED TO THE FOLLOWING:

- STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, CIVIL AND MECHANICAL DRAWINGS AND THE SPECIFICATIONS. IN CASE OF CONFLICT BETWEEN THE STRUCTURAL PLANS AND OTHER PLANS CONTRACTOR SHALL VERIFY THE ENGINEER IMMEDIATELY. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NEW JERSEY UNIFORM CONSTRUCTION CODE AND TO LOCAL REGULATIONS.
- ALL WORK SHALL COMPLY WITH THE NEW JERSEY CODE, IBC 2018 THE LOCAL BUILDING CODE, ACI BUILDING CODE, AISC SPECIFICATIONS FOR DESIGN FABRICATION AND ERECTION OF STEEL BUILDINGS, STEEL DECK INSTITUTE, WIRE REINFORCEMENT INSTITUTE, AND CONCRETE MASONRY ASSOCIATION NATIONAL.
- THE CONTRACTOR SHALL REVIEW THE REQUIREMENTS OF THE ٦ BUILDING WITH THE OWNER TO DETERMINE THE USE OF AREA, RAMPS, ETC. ANY RELATED COSTS OR CHARGES THERETO SHALL BE INCLUDED IN THE COST OF THE WORK.
- 4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING HIS BEST SKILL AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR THE COORDINATION OF ALL PORTIONS OF THE WORK.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SAFETY OF ALL PERSONS, EXISTING FACILITIES AND EXISTING EQUIPMENT AND DISPLAYS AT THE CONSTRUCTION SITE AND THROUGHOUT ALL AREAS AFFECTED BY THE NEW CONSTRUCTION.
- THE CONTRACTOR SHALL THOROUGHLY VERIFY ALL DIMENSIONS 6 AND FIELD CONDITIONS AT THE JOB SITE. ANY AND ALL DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER, OTHERWISE, THE CONTRACTOR SHALL BEAR ALL COSTS TO COMPLETE THE WORK AS INTENDED ON THE DRAWINGS.

- THE CONTRACTOR SHALL SUBMIT SHOP DRAW STRUCTURAL STEEL ETC., DETAILS FOR APPR PROCEEDING WITH THE WORK. THE CONTRACT DIMENSIONS AND ACCEPT FULL RESPONSIBILI CORRECTNESS.
- 8. OPENING LOCATIONS IN THE ROOF OR FLOOR SHALL BE LOCATED FROM THE ARCHITECT O
- 9. THE CONTRACTOR SHALL COORDINATE ALL S TO MECHANICAL SYSTEM WITH ACTUAL CUT MECHANICAL CONTRACTOR.
- 2. FOUNDATIONS
- 1. ALL FOOTINGS SHALL BEAR ON SOLID UNDIS CONTROLLED COMPACT FILL, WITH A MINIMU OF 4000 P.S.F U.O.N ON THE PLANS. BEAF BY A LICENSED GEOTECHNICAL ENGINEER F ALL FOOTING SHALL BE MINIMUM 3'- 6" BE
- 3. EXTERIOR BACK FILLING SHALL BE DONE AF
- CONCRETE FLOOR SYSTEM. 4. DETAILS AND DIMENSIONS SHOWN IN ANY S
- SIMILAR SECTIONS, UNLESS NOTED OTHERW
- REMOVE ALL FROZEN SOIL BELOW FOOTINGS
- PROVIDE 2 INCH RIDGED INSULATION ON AL INSULATION SHALL EXTEND 2'-0" BELOW GRADE AND 2'-0" UNDER THE SLAB FROM THE EXTERIOR WALLS.

<u>GENERAL KEY PLAN</u>

	3.	SLAB ON GROUND	4.	CONCRETE F
WINGS OF REINFORCING, ROVAL BEFORE	1.	ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF ACI 302-80 IN CONSTRUCTION OF ALL SLABS ON GROUND.	1.	ALL CONCRETE FO EDITION OF ACI 3
CTOR SHALL CHECK ALL ITY FOR DIMENSIONAL	2.	CONCRETE FOR SLABS ON GROUND SHALL BE 4,000 PSI AT 28 DAYS.	2.	FORMWORK) PS-1 301 AND BRACING PROVIDE BRACING
	3.	MAXIMUM SLUMP SHALL BE 3 IN.		STRENGTHEN FOR CONSTRUCTION LO
RS FOR MECHANICAL SYSTEM DR MECHANICAL PLANS.	4.	SLABS SHALL BEAR ON 6 IN. POROUS CRUSHED STONE FILL WITH 1 IN. SAND LAYER OVER TOP. REINFORCE ALL SLABS ON GROUND WITH WWF AT 2 IN. BELOW TOP SLAB	3.	THE FORMWORK DI ENGINEER FOR RE
STRUCTURAL SUPPORTS RELATED SHEET OBTAINED FROM THE	5.	STRIP CAST ALL SLABS ON GROUND IN MAXIMUM WIDTHS OF 20 FT. WITH CONSTRUCTION JOINT EACH SIDE.	4.	ALIGN JOINTS AND MINIMUM.
	6.	SAW CUT CONTRACTION JOINTS IN SLAB AS SHOWN ON STUCTURAL PLANS. CONTRACTION JOINTS ARE TO BE A MINIMUM OF 1/4 THE	5.	OBTAIN APPROVAL MEMBERS WHICH
STURBED VIRGIN SOIL, OR		CONCRETE IS HARD ENOUGH SO THAT BLADE DOES NOT DISLODGE AGGREGATE. ALL CONTRACTION JOINTS MUST BE CUT WITHIN 12 HOURS OF CASTING CONCRETE.	6.	APPLY FORM RELE MANUFACTURER'S
UM BEARING CAPACITY RING CAPACITY SHILL VERIFIED PRIOR TO THE CONSTRUCTION	7.	SAW CUT JOINTS SPACING SHALL BE 30 TIMES THE SLAB THICKNESS (MIN.).	7.	APPLY FORM RELE REINFORCING STEE
ELOW FINISHED GRADE.	8.	SAW CUT ALL CONSTRUCTION JOINTS TO 1/4 THE DEPTH OF SLAB. AFTER A 90 DAY WAIT FILL ALL CONSTRUCTION AND CONTRACTION	8.	PROVIDE FORMED EMBEDDED IN OR
FCTION APPLY TO ALL	9.	SUBGRADE SOIL SHALL BE COMPACTED TO A MINIMUM OF RELATIVE	9.	LOCATE AND SET INTO CONCRETE.
S AND REPLACE WITH CONCRETE.		DENSITT = 95%.	10.	INSTALL WATER ST REINFORCEMENT.
L EXTERIOR FOUNDATION WALLS.				

FORMWORK

RMWORK SHALL COMPLY WITH THE LATEST 347 (RECOMMENDED PRACTICE FOR CONCRETE (CONSTRUCTION AND INDUSTRIAL PLYWOOD) AND

TO ENSURE STABILITY OF FORMWORK. SHORE OR MWORK SUBJECT TO OVER STRESSING BY DADS.

DESIGN SHALL BE SUBMITTED TO THE STRUCTURAL EVIEW AND APPROVAL. D MAKE WATERTIGHT. KEEP FORM JOINTS TO A

. BEFORE FRAMING OPENINGS IN STRUCTURAL ARE NOT INDICATED ON DRAWINGS.

EASE AGENT ON FORMWORK IN ACCORDANCE WITH RECOMMENDATIONS. EASE AGENT PRIOR TO PLACEMENT OF

EEL, ANCHORING DEVICES, AND EMBEDDED ITEMS. OPENINGS WHERE REQUIRED FOR ITEMS TO BE

PASSING THROUGH CONCRETE WORK. IN PLACE ITEMS WHICH WILL BE CAST DIRECTLY

TOPS CONTINUOUS WITHOUT DISPLACING

CONCRETE REINFORCEMENT

ALL CONCRETE DETAILS AND CONSTRUCTION ARE TO COMPLY WITH THE LATEST EDITION OF THE ACI 301, ACI 315 & ACI 318 CODE AND LOCAL CODE.

COVERAGE

- 2. REINFORCING TO BE DEFORMED BARS, NEW BILLET STEEL A.S.T.M. A-615 DESIGNATION GRADE 60. ALL BARS ARE TO BE WIRED IN PLACE.
- WELDED WIRE MESH SHALL CONFORM TO A.S.T.M. A-185.
- 4. PLACE, SUPPORT, AND SECURE REINFORCEMENT AGAINST DISPLACEMENT. DO NOT DEVIATE FROM REQUIRED POSITION.
- 5. MAINTAIN CONCRETE CLEAR COVER AROUND REINFORCING AS FOLLOWS.
- ITEM
- BEAMS 1.5 INCH SUPPORTED SLAB 1.0 INCH COLUMN TIES 1.0 INCH WALLS (EXPOSED TO WEATHER OR BACKFILL) 2.0 INCH FOOTINGS AND CONCRETE FORMED AGAINST EARTH 3.0 INCH SLABS ON FILL 2.0 INCH
- 6. PROVIDE SHOP DRAWING FOR ENGINEER APPROVAL PRIOR TO CONSTRUCTION.

6. CAST-IN-PLACE CONCRETE

1.	ALL CONCRETE DETAILS AND CONSTRUCTION ARE TO COMPLY WITH THE LATEST EDITION OF THE ACI 301, ACI-318, ACI-614.
2.	CONFORM TO ACI 305R WHEN CONCRETING DURING HOT WEATHER.

- 3. CONFORM TO ACI 306R WHEN CONCRETING DURING COLD WEATHER. 4. CEMENT - ASTM C150 TYPE I.
- JOINT FILLER TYPE ASTM D1752; PRE MOLDED SPONGE RUBBER, FULLY COMPRESSIBLE WITH RECOVERY RATE OF MINIMUM 95 PERCENT.
- MIX CONCRETE IN ACCORDANCE WITH ACI 304. DELIVERY CONCRETE IN ACCORDANCE WITH ASTM C94.
- 7. PROVIDE CONCRETE TO THE FOLLOWING CRITERIA:
- COMPRESSIVE STRENGTH 28 DAYS: 4000 PSI SLUMP: 3 TO 4 INCHES MINIMUM WATER/CEMENT RATIO: 0.5
- ENSURE REINFORCEMENT. INSERTS. EMBEDDED PARTS. FORMED 8. JOINT FILLERS AND ANCHORS ARE NOT DISTURBED DURING CONCRETE PLACEMENT.
- 9. VERIFY REQUIREMENTS FOR CONCRETE COVER OVER REINFORCEMENT.
- 10. NOTIFY THE ENGINEER MINIMUM 24 HOURS PRIOR TO COMMENCEMENT OF OPERATIONS.
- 11. VERIFY THAT ANCHORS, SEATS, PLATES, REINFORCEMENT AND OTHER ITEMS TO BE CAST INTO CONCRETE ARE ACCURATELY PLACED, POSITIONED SECURELY, AND WILL NOT CAUSE HARDSHIP IN PLACING CONCRETE.
- 12. MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR PERIOD NECESSARY FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.
- 13. DO NOT PATCH, FILL, TOUCH-UP, REPAIR, OR REPLACE EXPOSED CONCRETE EXCEPT UPON EXPRESS DIRECTION OF ENGINEER FOR EACH INDIVIDUAL AREA.
- 14. REPAIR OR REPLACEMENT OF DEFECTIVE CONCRETE WILL BE DETERMINED BY THE ENGINEER.
- 15. ALL STRUCTURAL MEMBERS SHALL BE POURED IN FULL DEPTH IN THE SAME POUR.

STRUCTURAL STEEL NOTES

- ALL DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL WORK SHALL CONFORM TO THE CURRENT ISSUE OF THE A.I.S.C. 360-05 SPECIFICATIONS AND SHALL COMPLY WITH ALL LOCAL LAWS AND ORDINANCES.
- ALL STRUCTURAL STEEL SHALL BE NEW, CLEAN AND STRAIGHT. IT SHALL CONFORM TO THE LATEST EDITION OF THE ASTM A-992. FURNISH MILL CERTIFICATES.
- THE STRUCTURAL STEEL CONTRACTOR MUST VERIFY LOCATION OF ANCHOR BOLTS, LOCATION, SIZE AND ELEVATION OF AS BUILT FOUNDATIONS PRIOR TO THE START OF ERECTION.
- 4. BOLTS SHALL BE 3/4" DIA. (UNLESS OTHERWISE NOTED) HIGH STRENGTH CONFORMING TO ASTM A325. CONNECTIONS: 5.
 - A. SHOP CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS OR WELDS.
 - B. FIELD CONNECTIONS SHALL BE MADE WITH HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED.
 - C. CONNECTION CAPACITY: FULL SHEAR CAPACITY OF THE MEMBER.
- STEEL COLUMN AT THE BASE TO BE ENCASED IN CONCRETE AFTER PROPER ALIGNMENT AND LEVELING WITH NON-SHRINK GROUT UNDERSIDE OF BASE PLATE. ENCASED PORTION OF COLUMN SHALL NOT BE PAINTED.
- CONTRACTOR SHALL PROVIDE ALL TEMPORARY BRACING REQUIRED TO MAINTAIN PLUMB AND STABILITY OF STRUCTURAL SYSTEM DURING ERECTION.
- 8. ALL ANCHOR BOLTS AND EMBEDDED PLATES/INSERTS TO BE SUPPLIED BY STEEL CONTRACTOR, AND SHALL BE SET AT THE PROPER LOCATION BY GENERAL CONTRACTOR.
- 9. BEAMS BEARING ON WALLS SHALL BE PROVIDED WITH BEARING PLATES AND ANCHORED WITH BOLTS AS APPROVED BY THE ENGINEER. 10. ALL STRUCTURAL STEEL SHOULD HAVE ONE SHOP COAT OF PRIMER
- PAINT IN ACCORDANCE WITH FED. SPEC. TT-P 636 (RED OXIDE). 11. NO OPENINGS SHALL BE CUT IN STRUCTURAL STEEL MEMBERS. UNLESS APPROVED BY THE ENGINEER.
- 12. APPROVAL OF SHOP DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF HIS RESPONSIBILITIES AND CONTRACT OBLIGATIONS.
- 13. ALL ROOF AND FLOOR MEMBERS ARE UNIFORMLY SPACED UNLESS NOTED. OTHER WISE





GENERAL NOTE: 1- DEWATERING MAY REQUIRED DURING THE INSTALLATION OF THE NEW FOOTING AND WALLS CONDITION TO BE VERIFIED IN FIELD DURING THE CONSTRUCTION.





























1 ELEVATION DETAIL S400 SCALE: 1/2"=1'-0"



LINTEL INSTALLATION SEQUENCE :

- DRILL $1\frac{3}{4}$ " HOLE IN BLOCK AS SHOWN IN THE ELEVATION DETAIL.
- 2. INSTALL 1" Ø STEEL PIPE SPACER (LENGTH OF SPACER TO BE V.I.F)
- 3. INSTALL ONE C CHANNEL AS SHOWN.
- 4. INSTALL $\frac{5}{8}$ " Ø THROUGH BOLTS.
- 5. INSTALL THE SECOND C CHANNEL AND TIGHTEN THE BOLTS. 6. CUT THE EXISTING WALL AS INDICATED IN DETAILS SEE SAW CUT LINES .
- INSTALL THE NEW HSS $6X3X\frac{1}{4}$ " COLUMN BELOW THE CHANNEL
- 8. REMOVE THE WALL TO CREATE X'-XX" WIDE OPENING AS REQUIRED.
- 9. INSTALL THE BOTTOM STEEL PLATES IN THE EXISTING CONCRETE.
- 10. THE CONTRACTOR SHALL VERIFY THAT THE WALL BETWEEN CHANNELS IS SOLID PRIOR CUTTING THE WALL.















CAP PLATE DETAIL SCALE: 1 1/2"=1'-0"

-*** nie . - WORKING AREA ____ **7** KEY PLAN SCALE: 1/64"=1'-0"





3- SUB GRADE PREPARATION TO BE IN ACCORDANCE WITH GEOTHECNICAL SOIL REPORT PREPARED BY GEI CONSULTING ENGINEERS DATED 08/11/2021

4- C.J IN THE PLAN INDICATES CONTROL JOINTS LOCATION AS PER DETAIL 8/S501. 5- ACTUAL SQUARE FOOTAGE FOR SLAB ON GRADE REPLACEMENT TO BE VERIFY IN FIELD.











2 INTERIOR ELEVATION DETAIL FOR NEW OPENING SCALE: 1/8"=1'-0"

4 ELEVATION DETAI

\$800 SCALE: 3/32"=1'-0"

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4 DUNNAGE 4 FRAMING PLAN SCALE: 1/4"=1'-0"

5 S801 SCALE: 1/4"=1'-0"

GENERAL NOTE:

1- ALL STEEL BEAMS AND CONNECTIONS THAT EXPOSED TO WEATHER SHALL
BE PAINTED FOR PROTECTION.
2- THE PLAN ILLUSTRATE THE WEIGHT FROM THE CUT SHEET PROVIDED BY THE
MECHANICAL ENGINEER . IF ANY WEIGHTS DIFFERENT FROM THIS PLAN CONTACT
STRUCTURAL ENGINEER FOR REVIEW.
3- EXIST FOOTINGS FOR COLUMNS SUPPORT THE NEW STEEL DUNNAGES WILL
REQUIRE ADDITION REINFORCEMENT . SEE SHEET S900 FOR FOOTING
REINFORCEMENT DETAILS.

MAX 25'-0"

FOR UNIT WEIGHT & FOR UNIT WEIGHT & LOCATION SEE PLAN LOCATION SEE PLAN 1 $\frac{1}{2}$ "X $\frac{3}{16}$ " GALV. GRATING _ $1\frac{1}{2}$ "X $\frac{3}{16}$ " GALV. GRATING BY MCNICHOLS PLATFORM BY MCNICHOLS PLATFORM L4X4X¾" HZ. BRACING— SEE PLAN FOR BEAM SIZE SEE PLAN FOR BEAM SIZE $^{\succ}$ SEE PLAN FOR BEAM SIZE — DOUBLE SHEAR ANGLE CONNECTION - EXISTING ROOFING EXISTING STEEL BEAM EXISTING BAR JOIST %" THICK STIFF.PLATE ——

GENERAL NOTE:

1- THIS PLAN REFLECT THE GENERAL LAYOUT FOR EV & CAU 1,2 AND AHU-2 HUNG POINTS TO VERIFY FROM THE FINAL CUT SHEETS.
2- FOR UNITS CAU 1,2 AND AHU-2 FOLLOW BAR JOIST REINFORCEMENT DETAILS AS PER CASE # SHOWN IN THE PLAN . UNITS INSTALLATION AND SUPPORTING TO BE PROVIDED BY THE MANUFACTURE. LOCATION OF L1 ANGLES TO BE VERIFY BY MANUFACTURE ALSO.

(L1) L4X4X $\frac{3}{8}$

3 S804 SCALE: 1/2"=1'-0"

4 ENLARGEMENT DETAIL S804 SCALE:1 1/2"=1'-0"

NEW L4X4X³/₈"— NEW C 6X8.2 WELDED TO THE BOTTOM CHORD / USING %" TYP.WELD 1" LONG @ 8" O.C. STAGG $^{-\prime}$

SECTION (B-B)

GENERAL CONDITIONS NOTE: THIS DRAWING AND THE DESIGN DESCRIBED HEREIN, INCLUDING THE SPECIFICATIONS, ARE THE EXCLUSIVE PROPERTY OF <u>CYBUL CYBUL WILHELM</u> ARCHITECTS A.I.A. WE RESERVE THE RIGHT TO HAVE THIS WORK REGULCED, FABRICATED, CONSTRUCTED ON MANUFACTURED. THIS DRAWING IS PLACED ON LOAN SOLELY FOR YOUR INSPECTION. ACTUAL BABRICATION, CONSTRUCTION OR MANUFACTURED. THIS NOT SPLACED ON LOAN SOLELY FOR YOUR INSPECTION. ACTUAL BABRICATION, CONSTRUCTION OR MANUFACTURED. THIS NOT SPLACED ON LOAN SOLELY FOR YOUR INSPECTION. ACTUAL BABRICATION, CONSTRUCTION OR MANUFACTURED. THIS NOT SPLACED ON LOAN SOLELY FOR YOUR INSPECTION. ACTUAL BABRICATION, CONSTRUCTION ON THAN AND SEEN RETAINED TO PROFINE WORK DESCRIBED HEREIN, AND THIS DRAWING HAS BEEN ACKNOWLEDGED "FOR CONSTRUCTION". THE CONTRACTOR ASSUMES ALL RESPONSIBILITIES FOR VERIFYING THAT THE DIMENSIONS, AND/OR CONDITIONS AT THE JOB SITE ARE AS REPRESENTED ON THIS DRAWING AND ACCOMPANYING SPECIFICATIONS. IF THERE IS ANY DISCREPANCY BETWEEN WHAT IS DESCRIBED IN THESE DOCUMENTS AND THE ACTUAL FIELD ONTRACTOR TO VERIFY AND COMPLY WITH ALL BUILDING AND/OR MUNICIPAL AND STATE RULES AND REGULATIONS. FAILURE OF THE CONTRACTOR TO EXERCISE THE AFOREMENTIONED PROCEDURES WILL RESULT IN THE CONTRACTOR TO VERIFY AND COMPLY WITH ALL BUILDING AND/OR MUNICIPAL AD STATE RULES AND REGULATIONS. FAILURE OF THE CONTRACTOR TO EXERCISE THE AFOREMENTIONED PROCEDURES WILL RESULT IN THE CONTRACTOR CORRECTING AND/OR MODIFYING THE AREAS OR ITEMS IN CONTRACTOR CORRECTING AND/OR MODIFYING THE AREAS OR ITEMS IN CONTRACTOR CORRECTING AND/OR MODIFYING THE AREAS OR ITEMS IN CONTRACTOR WERPENSE. M. EXCENTENCES copyright 2017- CYBUL CYBUL WILHELM ARCHITECTS ____ 1 I 1 I I I 1 I 1 I 1 I 1 I MI3HIIW I MAY I MAY 1064 River Rd. Edgewater, NJ 07020 (201) 224-4100 (201) 224-0274 N.Y. 15125 Martin J. Cybul N.J. C-7447 N.Y. 21140 Oliver R. Wilhelm N.J. 16021 KOESTNER ASSOCIATES P.O.BOX 514 KOESTNER ASSOCIATES Hackensack, NJ 07602 ALLIED ENGINEERING 730 River Road New Milford, NJ 07646 BD ENGINEERING, LLC. 30 Park Road, Suite 4 BD engineering Tinton Falls, NJ 07724 Lorenzo Foods Teterboro 25 CENTRAL AVE TETERBORO, NJ, 07608 ISSUED FOR REVIEW 🗖 PLANNING BOARD SHERIF EL-FAR NJ LIC # 37718 DATE 09/21/2021 drawing name: BAR JOIST REINFORCEMENT DETAILS scale: AS SHOWN release date: drawing date: 09/21/21 drawn by: RB/MI approved by: RB/SE project no.: 2102 drawing no.: S-804 DOB BARCODE: 17 of Total 19

3 S900 SCALE: 3/4"=1'-0"

SECTION (B-B)

