

**GENERAL NOTES:**

IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATION OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE PLANS AND FOR COORDINATING ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE FOUNDATION PLAN WITH THOSE SHOWN ON THE METAL BUILDING PLANS OR OTHER PLANS. IF DISCREPANCIES OCCUR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO BRING THE DISCREPANCY TO THE ATTENTION OF THE FOUNDATION ENGINEER BEFORE PROCEEDING WITH THE WORK.

**MATERIAL SPECIFICATIONS:**

MINIMUM 28 DAY CONCRETE STRENGTHS: SUBMIT MIX DESIGN

FOOTING:..... 3500 PSI  
 SLABS ON GRADE:..... 3500 PSI  
 (DURABILITY REQUIREMENTS MAY CONTROL MIX DESIGN: MAX SLUMP = 3" TO 4")  
 ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.  
 ALL ANCHOR BOLTS SHALL BE F1554-36 KSI HEX HEAD.

**CONCRETE NOTES:**

ALL CONCRETE WORK SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318) AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS (ACI 301) OF THE AMERICAN CONCRETE INSTITUTE.

PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.

ALL REINFORCING STEEL SHALL BE ASTM A615 GRADE 60.

COORDINATE CONCRETE WORK WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ARCHITECTURAL FINISHED CONCRETE, RECESSED AREAS, EMBEDDED ITEMS, AND SPECIAL CONTROL JOINTS.

PROVIDE THE FOLLOWING MINIMUM CLEAR COVER FOR REINFORCING STEEL FROM SURFACE OF CONCRETE:

- FOR CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3" IN GENERAL
- FOR CONCRETE SURFACE EXPOSED TO THE WEATHER OR AGAINST WHICH BACKFILL WILL BE PLACED: 2" FOR #6 BARS AND LARGER
- FOR SURFACES OTHER THAN ABOVE:
  - 1-1/2" FOR COLUMN SPIRALS OR TIES, OR STIRRUPS
  - 3/4" FOR SLABS AND FOR STIRRUPS IN PAN JOISTS

TOLERANCES FOR BAR COVER ARE +/- 3/8 INCH FOR CONCRETE HAVING A THICKNESS OF 8 INCHES OR LESS AND +/- 1/2 INCH FOR CONCRETE HAVING A THICKNESS GREATER THAN 8 INCHES. TOLERANCE FOR LONGITUDINAL LOCATION OF BENDS AND ENDS OF REINFORCEMENT SHALL BE +/- 2 INCHES EXCEPT AT DISCONTINUOUS ENDS OF MEMBERS WHERE THE TOLERANCE SHALL BE +/- INCH. TOLERANCE FOR BAR SPACING IS +/- 2 INCHES. TOLERANCE FOR LENGTH OF LAP SPLICE IS -1 INCH, AND TOLERANCE FOR EMBEDDED LENGTH IS +/- 1 INCH.

**SOIL NOTES:**

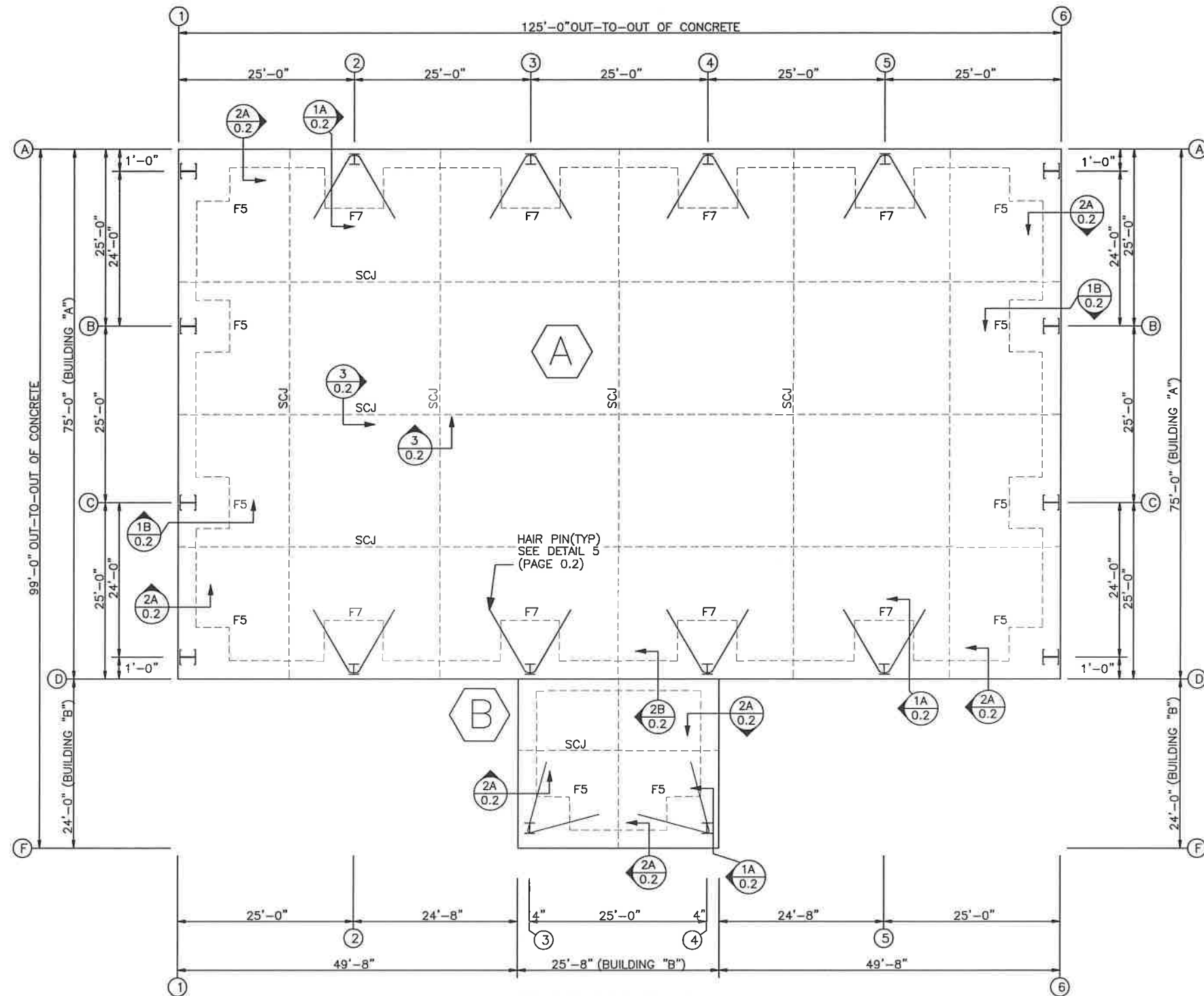
ALL ORGANICS (99%) SHALL BE REMOVED FROM THE BUILDING PAD AREA. THE SITE SHALL BE CLEARED AND GRUBBED. IF STRUCTURAL FILL IS REQUIRED FOR THE SITE, IT SHALL BE PLACED IN LIFTS NO GREATER THAN 6" BEFORE COMPACTION TAKES PLACE. SOIL DENSITIES BENEATH ALL FOOTINGS AND SLABS MUST ACHIEVE (98%) STANDARD PROCTOR UNLESS DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER. SOIL BEARING CAPACITIES CAN BE VERIFIED USING A DYNAMIC CONE PENETROMETER OR SIMILAR MEANS. A UNIFORM AND WELL COMPACTED BASE & SUBGRADE IS ESSENTIAL FOR PROPER SLAB PERFORMANCE.

PROOF ROLLING WITH A LOADED TANDEM AXLE DUMP TRUCK OR CONCRETE MIX TRUCK IN A GRID PATTERN SHOULD BE PERFORMED IN THE BUILDING PAD AREA. PROOF ROLLING SHOULD BE PERFORMED AS LIFTS ARE BEING MADE. IF PUMPING OR RUTTING IS OBSERVED, REPAIRS MUST BE MADE. ANY DEPRESSIONS GREATER THAN 1/2 INCH REQUIRE REPAIR.

A 4"-6" COMPACTED GRANULAR FILL SHALL BE PLACED BENEATH THE SLAB WITH A MIN 6 MIL VAPOR BARRIER PLACED DIRECTLY BENEATH THE SLAB UNLESS DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER.

THE NET ALLOWABLE BEARING CAPACITY OF THE SOIL USED IN DESIGN OF THE FOUNDATION IS 1000 PSF. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SOILS COMPLY WITH THESE ASSUMPTIONS BEFORE ANY CONCRETE IS POURED. NO GEOTECHNICAL REPORT WAS AVAILABLE WHEN THIS FOUNDATION PLAN WAS PREPARED.

COORDINATE ALL SAW JOINTS WITH ARCHITECTURAL, MECHANICAL, AND PLUMBING PLANS. SAW JOINT LOCATIONS ARE SUGGESTIVE. SAW JOINTS SHOULD BE APPROXIMATELY SQUARE IF POSSIBLE. IF NOT, TRY TO LIMIT THE LONGEST SIDE TO 1.5 TIMES THE SHORTEST SIDE. THE FOUNDATION ENGINEER DOES NOT HAVE SPECIFIC KNOWLEDGE OF ANY SPECIFIC SLAB LOADINGS. IT IS ASSUMED THAT SLAB LOADINGS WILL BE LIGHT IN NATURE SUCH AS FOR LIGHT COMMERCIAL/RESIDENTIAL FACILITIES. SEE JOINT DETAILS SHEET 0.2.



**FOUNDATION PLAN**  
 NOTE: All Base Plates @ 100'-0" (Unless Noted)

COORDINATE THE FOUNDATION PLAN WITH THE SPECIFIC ANCHOR BOLT LAYOUT PLAN PROVIDED BY THE MBM.

ALL SLABS = 6" CONCRETE SLAB PER CUSTOMER WITH 6x6-W2.9x2.9 WWF @ 1/3 FROM TOP OF SLAB AND CHAIRED AT 3'-0" O.C. MAXIMUM IN ALL DIRECTIONS. VAPOR BARRIER PER GEOTECHNICAL ENGINEER RECOMMENDATIONS. REFER TO THE GEOTECHNICAL REPORT FOR COMPACTION REQUIREMENTS AND SHEET 0.2. ALL UTILITIES, SLOPED SLABS, STEPPED FOOTINGS, RECESSED AREAS, BURIED ITEMS, AND THE COORDINATION OF SUCH ITEMS IN COMBINATION WITH THIS SLAB PLAN ARE THE RESPONSIBILITY OF THE CONTRACTOR.

REFERENCE ELEVATION IS ASSUMED TO BE 100.0 ft. AT THE TOP CORNERS OF THE SLAB EXACT FINISHED FLOOR ELEVATION (XX.XX) SHALL BE DETERMINED BY CIVIL (SITE) ENGINEER.

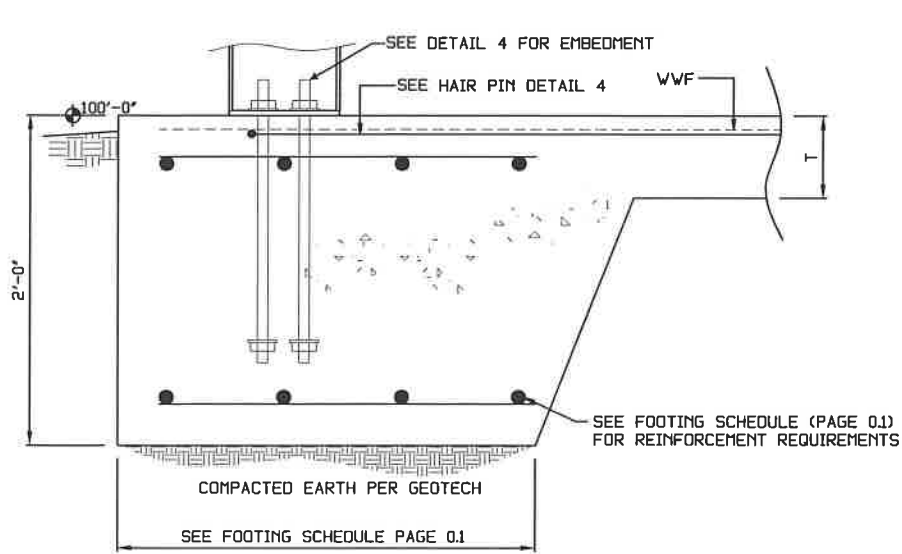
FOOTING SCHEDULE				
MARK #	SIZE (L x W x T)	TOP REINF.	BOTTOM REINF.	T.O.F. ELEV.
F5	5'-0"x5'-0"x2'-0"	(6) #6's E.W.	(6) #6's E.W.	PER CIVIL
F7	7'-0"x7'-0"x2'-0"	(9) #6's E.W.	(9) #6's E.W.	PER CIVIL

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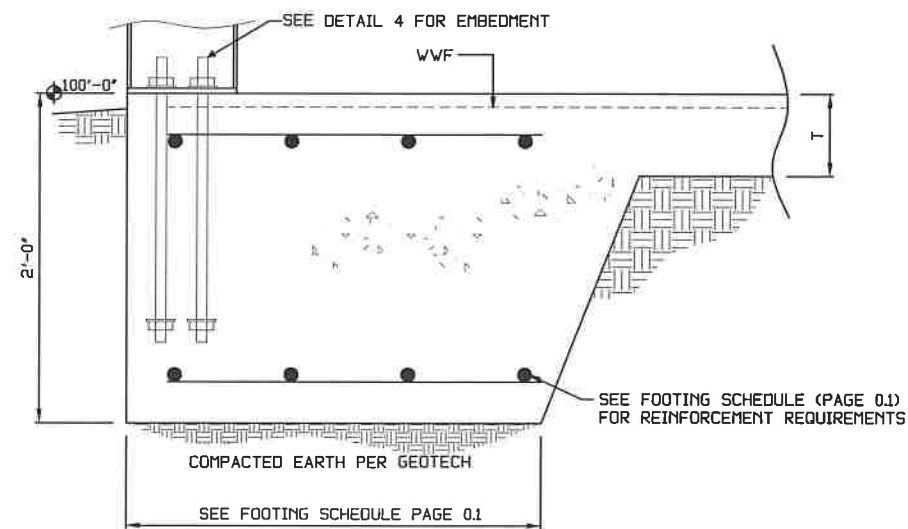
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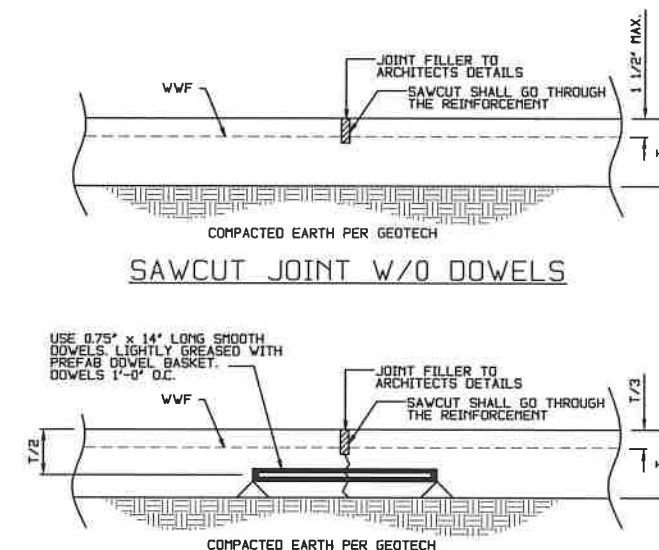
ISSUE	DET	CHK	DATE
BUILDINGS AND MORE			
CUSTOMER: BUSY BEE			
JOB NO: 7704R1			DATE: 1/ 3/23
LOCATION: LAKE CITY, FL 32052			
DRAWING NAME: FOUNDATION DESIGN			
DRAWING NO: PAGE 0.1	DRAWN BY: WTH	CHECKED BY: WBB	SCALE: NONE



DETAIL 1A

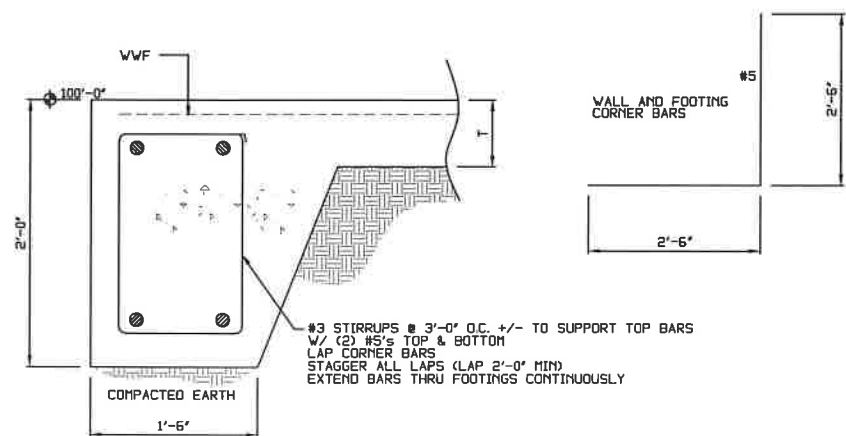


DETAIL 1B

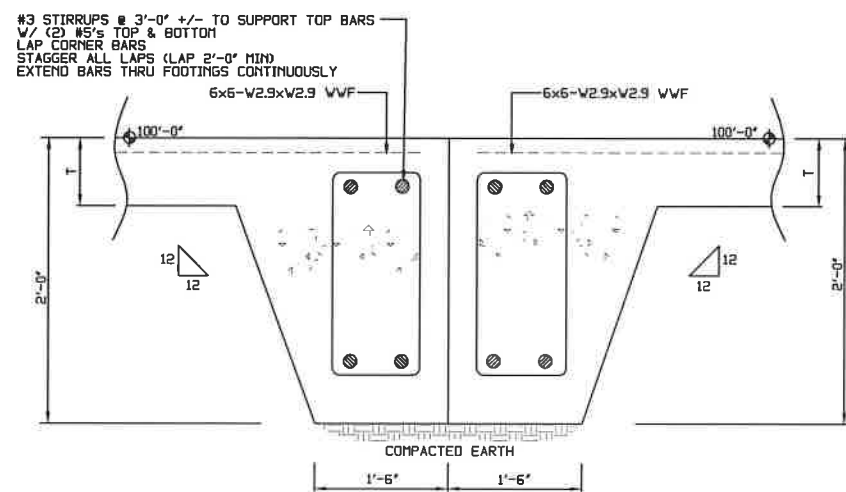


DETAIL 3

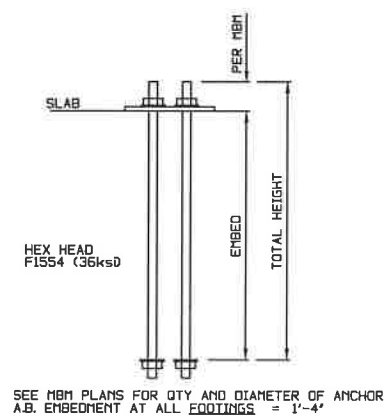
SAWCUT JOINT W/ DOWELS  
RECOMMENDED IF FORKLIFTS AND HEAVY TRAFFIC ARE USED.



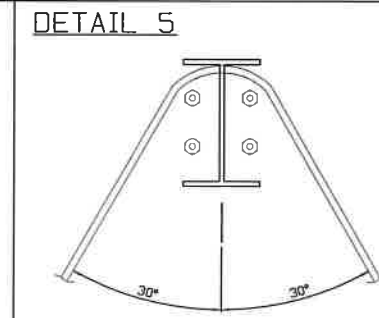
DETAIL 2A



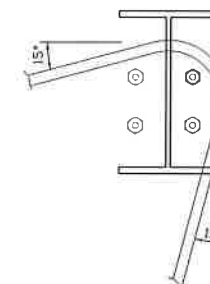
DETAIL 2B



DETAIL 4

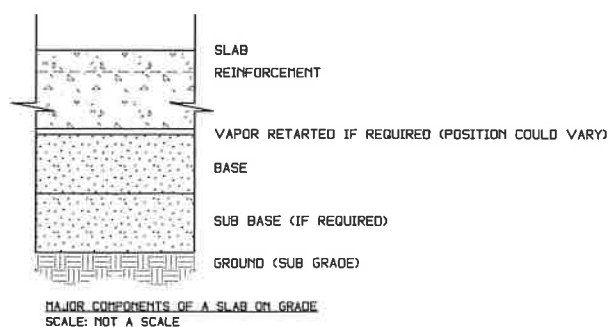


HAIR PIN LAYOUT (Typ.)  
#6 HAIR PIN (10'-0" LEGS EACH SIDE)



HAIR PIN @ CORNERS  
#6 HAIR PIN (7'-0" LEGS EACH SIDE)

SLAB/SOIL SUPPORT SYSTEM COMPONENT DESCRIPTIONS	
SLAB:	6" SLAB
REINFORCEMENT:	6x6-W2.9xW2.9 WVF LOCATED IN UPPER 1/3 OF SLAB
BASE MATERIAL:	THICKNESS, COMPTION, & COMPACTION PER GEOTECHNICAL ENGINEER.
SUBBASE:	
SUBGRADE:	
VAPOR RETARDER:	LOCATION: PER RECOMMENDATION OF GEOTECHNICAL ENGINEER
GRADING TOLERANCES:	
'ROUGH GRADING' OR SUBGRADE AND 'FINE GRADING' OR BASE	+0/-1 INCH FOR ACI FLOOR CLASSES 1-3. +0/-3/4 INCH FOR ACI FLOOR CLASSES 4-9.
ADDITIONAL NOTES:	BOTTOM OF FOOTING EXCAVATIONS SHALL BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE CONCRETE PLACEMENT.



DETAIL 6

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ISSUE	DET	CHK	DATE
BUILDINGS AND MORE			
CUSTOMER: BUSY BEE			
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DRAWING NAME: FOUNDATION DESIGN			
DRAWING NO: PAGE 0.2	DRAWN BY: WTH	CHECKED BY: WBB	SCALE: NONE