

03_Abbreviation Schedule	
Abbreviation	Abbreviation Name
4	PLUS OR MINUS
ADDN	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
AR	ANCHOR ROD
ARCH	ARCHITECT OR ARCHITECTURAL
B/	BOTTOM OF
BW	BETWEEN
BLDG	BUILDING
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BWP	BRACED WALL PANEL
CFS	COLD FORMED STEEL
CHKD	CHECKED
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CL	CENTERLINE
CLR	CLEAR
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CTR	CENTER
db	DIA OF REIN BAR, DIA OF BOLT
DBA	DEFORMED BAR ANCHOR
DIA or Ø	DIAMETER
DIAG	DIAGONAL
DIR	DIRECTION
DWL	DOWEL
EA	EACH
EE	EXTENDED END
EJ	EXPANSION JOINT
ELEV	ELEVATION
ENGR	ENGINEER
EOD	EDGE OF DECK
EOS	EDGE OF SLAB
EQ	EQUAL
EW	EACH WAY
EXIST	EXISTING
EXT	EXTERIOR
FDN	FOUNDATION
FLG	FLANGE
FLR	FLOOR
FS	FAR SIDE
FTG	FOOTING
FV	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL SECTION
IF	INSIDE FACE
INT	INTERIOR
JST	JOIST
K	KIPS (1000 LBS)
LCE	COMPRESSION EMBEDMENT LENGTH
LCS	COMPRESSION LAP SPlice LENGTH
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LTE	TENSION EMBEDMENT LENGTH
LTS	TENSION LAP SPlice LENGTH
LW	LIGHTWEIGHT
MFCR	MANUFACTURER
MTL	METAL
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
OC	ON CENTER
OF	OUTSIDE FACE
OPP	OPPOSITE
OVS	OVERSIZED
PIC	PRECAST
PAF	POWDER ACTUATED FASTENER
PAR	PARALLEL
PEMB	PRE-ENGINEERED METAL BUILDING
PEN	PENETRATION
PERP	PERPENDICULAR
PL	PLATE
PLF	POUNDS PER LINEAR FOOT
PREFAB	PREFABRICATED
PRELIM	PRELIMINARY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
RC	REINFORCED CONCRETE
RE	REFER TO
REIN	REINFORCING
REQD	REQUIRED
RF	RIGID FRAME
SC	SLIP CRITICAL
SDS	SELF DRILLING SCREW
SIM	SIMILAR
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
STIR	STIRRUPS
STL	STEEL
SW	SHEAR WALL
SYM	SYMMETRIC
T&B	TOP AND BOTTOM
T/	TOP OF
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WF	WIDE FLANGE
WP	WORK POINT
WWR	WELDED WIRE REINFORCEMENT

STRUCTURAL DESIGN CRITERIA (2018 IBC AND ASCE 7-16):

- BUILDING OCCUPANCY RISK CATEGORY I.
- LIVE LOADS (UNIFORM (PSF) / POINT LOADS (KIPS)):
 - ROOF:.....20 PSF / 300k
- ROOF SNOW LOAD:
 - GROUND SNOW LOAD (Pg):.....20 PSF
 - FLAT ROOF SNOW LOAD (P_f):.....16.9 PSF W/ DRIFT
 - MIN UNIFORM ROOF SNOW LOAD (P_m):.....20 PSF (NO DRIFT OR RAIN)
 - SNOW EXPOSURE FACTOR (Ce):.....1.0, EXPOSURE C
 - SNOW LOAD IMPORTANCE FACTOR (Is):.....1.0
 - THERMAL FACTOR (Ct):.....1.1
- WIND DESIGN DATA:
 - BASIC WIND SPEED (3 SEC GUST):.....115 MPH
 - WIND EXPOSURE:.....C
 - DIRECTIONALITY FACTOR (Kd):.....0.85
 - INTERNAL PRESSURE COEFF:.....0.18

STRUCTURAL GENERAL NOTES:

- DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 'INTERNATIONAL BUILDING CODE, 2018 EDITION'. REFER TO THE SPECIAL STRUCTURAL INSPECTION NOTES FOR ADDITIONAL REQUIREMENTS.
- CONTRACTOR TO VERIFY ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
- IF DISCREPANCIES EXIST BETWEEN STRUCTURAL PLANS, ARCHITECTURAL PLANS, OTHER PLANS, OR SPECIFICATIONS, THE CONTRACTOR OR SUBCONTRACTOR SHALL PROVIDE A WRITTEN REQUEST FOR CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- THE STRUCTURE AND FOUNDATIONS ARE NOT DESIGNED FOR FUTURE EXPANSION.
- FOR DEFERRED SUBMITTALS (EXAMPLES: PRE-ENGINEERED CANOPIES, WOOD TRUSSES, PRECAST CONCRETE ELEMENTS, COLD FORMED FRAMINGS), SHOP DRAWINGS AND CALCULATIONS SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE JURISDICTION OF THE PROJECT SHALL BE FURNISHED TO THE ENGINEER OF RECORD FOR REVIEW.
- TYPICAL DETAILS ARE SHOWN ON SHEETS DESIGNATED "S03X". THE INCLUDED TYPICAL DETAILS MAY OR MAY NOT BE CUT / REFERENCED ON PLANS OR SECTIONS, BUT ARE TO BE USED AS APPLICABLE.

EARTHWORK AND FOUNDATIONS:

- ALLOWABLE BEARING PRESSURE = 2500 PSF (MUST BE CONFIRMED BY SPECIAL INSPECTION)
- ALL FOOTINGS SHALL BEAR A MINIMUM DEPTH BELOW GRADE OF 3'-0" ON FIRM NATIVE MATERIALS, COMPACTED OR ENGINEERED FILL CAPABLE OF SUPPORTING AN ALLOWABLE BEARING PRESSURE OF 2,500 PSF. DEEPEN FOOTINGS, AND REMOVE AND REPLACE SOFT SOILS WITH A 3'-0" GRAVEL TRENCH TO PROVIDE THIS MINIMUM DEPTH AND SUITABLE BEARING.
- UNDERCUT THE PAD TO A DEPTH OF 18-INCHES BELOW BOTTOM OF FLOOR SLAB ELEVATION AND REPLACE WITH LOW-VOLUME-CHANGE MATERIALS PER THE GEOTECHNICAL REPORT.
- FILL PLACEMENT, COMPACTION, AND SOIL BEARING TESTS SHALL BE PERFORMED BY A GEOTECHNICAL ENGINEER PRIOR TO INSTALLING FOOTINGS TO ENSURE DESIGN ALLOWABLE BEARING VALUES AND SLAB SUBGRADE REQUIREMENTS ARE SATISFIED. IF ACTUAL SITE CONDITIONS DO NOT SATISFY THESE REQUIREMENTS, COORDINATE ADJUSTMENTS WITH ARCHITECT/ENGINEER/ GEOTECHNICAL ENGINEER
- SURFACE WATER SHALL NOT BE ALLOWED TO STAND ADJACENT TO OR DRAIN TOWARDS THE FOUNDATION AND SLAB SUBGRADES UNDER ANY CIRCUMSTANCES. PAVEMENTS OR GRADED SOILS AT THE PERIMETER OF THE BUILDING, EXCEPT AS REQUIRED AT EXITS OR AS NOTED, SHALL BE SLOPED AWAY AT 5% OR 6" MIN FOR THE FIRST TEN FEET AND AS REQUIRED TO PROVIDE POSITIVE DRAINAGE.
- FOOTINGS MAY BE POURED TO NEAT LINES OF EXCAVATIONS PROVIDING VERTICAL LINES OF EXCAVATIONS CAN BE MAINTAINED DURING CONCRETE PLACEMENT.
- FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO FEET ON EITHER SIDE AT ANY TIME. BASEMENT WALL AND RESTRAINED RETAINING WALL BACKFILL SHALL NOT BE PLACED, UNLESS THE WALL IS ADEQUATELY BRACED. RETAINING WALL AND BASEMENT WALL BACKFILL SHALL BE FREE DRAINING GRANULAR BACKFILL ACCEPTABLE TO THE GEOTECHNICAL ENGINEER.

CONCRETE REINFORCING STEEL:

- SUBMIT SHOP DRAWINGS FOR REBAR. ALL REINFORCING BARS SHALL MEET ASTM A615 GRADE 60.
- ALL MESH SHALL MEET ASTM A-185; LAP A MINIMUM OF 8" OR ONE FULL MESH, WHICHEVER IS GREATER.
- CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 3/4" CLEAR FOR SLABS, 2" CLEAR FOR FORMED SURFACES AND 3" CLEAR FOR FOOTINGS (TYPICAL UNLESS NOTED).
- CONTRACTOR SHALL VERIFY THAT ALL REINFORCEMENT, SLAB DOWELS, INSERTS, SLEEVES AND EMBEDDED ITEMS ARE PROPERLY LOCATED AND RIGIDLY SECURED PRIOR TO CONCRETE PLACEMENT, "WET STICKING" DOWELS WILL NOT BE ALLOWED.
- REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH THE LATEST A.C.I. DETAILING MANUAL BY A QUALIFIED AND EXPERIENCED FIRM AND PERSON. PLACE AND SUPPORT REINFORCEMENT WITH ACCESSORIES, MAXIMUM SPACING - 48" CENTERS (PLASTIC-TIPPED LEGS FOR EXPOSED SURFACES). USE 3" SBP SUPPORTS AT ALL FOOTINGS.

CAST IN PLACE CONCRETE:

- PLACE PROPOSED MIXED DEIGNS OF EACH TYPE FOR REVIEW. REQUIRED MINIMUM CONCRETE COMPRESSIVE STRENGTHS AT 28 DAYS:
 - a. FOOTING AND GRADEBEAM CONCRETE.....4000 PSI
 - b. SLAB ON GRADE.....4000 PSI
- ALL CONCRETE MIX DESIGNS SHALL HAVE WATER TO CEMENT RATIOS LESS THAN 0.52, WITH A MAXIMUM 60/40 FINE TO COARSE AGGREGATE RATIO. CONCRETE MIX DESIGNS THAT DO NOT CONFORM TO THE ABOVE STANDARD AND/OR CONTAIN WATER REDUCING ADMIXTURES SHALL BE SUBMITTED WITH APPROPRIATE TEST DATA PER A.C.I. ALL CONCRETE SHALL BE IN CONFORMANCE WITH THE LATEST A.C.I. 301 STANDARDS PUBLICATION.
- EXTERIOR CONCRETE (FLOOR SLABS, WALLS, ETC) SHALL HAVE 6% (PLUS/MINUS 1%) ENTRAINED AIR.
- NO ALUMINUM SHALL BE EMBEDDED IN ANY CONCRETE.
- NO CALCIUM CHLORIDE SHALL BE USED IN CONCRETE
- THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK IS THE RESPONSIBILITY OF THE CONTRACTOR
- ALL CONCRETE IS REINFORCED UNLESS SPECIFICALLY NOTED AS UNREINFORCED. REINFORCE ALL CONCRETE NOT OTHERWISE SHOWN WITH THE SAME REINFORCING AS SIMILAR SECTIONS OR AREAS.
- CONSTRUCTION JOINTS IN GRADE BEAMS, CONTINUOUS FOOTINGS, AND WALLS THAT DO NOT CHANGE DIRECTION SHALL BE SPACED NO GREATER THAN 100'-0".
- WHERE FRESH CONCRETE IS DEPOSITED AGAINST HARDENED CONCRETE (GREATER THAN 8 HRS OLD), CLEAN EXISTING SURFACE OF LAITANCE AND FOREIGN MATERIAL AND DAMPEN THE EXISTING SURFACE. IF REQUIRED, ROUGHEN EXISTING CONCRETE TO 1/4" AMPLITUDE.
- SLABS ON GRADE SHALL BE 4" THICK MINIMUM ON 4" OF GRANULAR FILL REINFORCED WITH 6x6-W2 1xW2.1. PLACE REINF IN UPPER 1/3 OF SLAB THICKNESS. AT INTERIOR SLABS, A 10 MIL VAPOR BARRIER SHALL BE PLACED BETWEEN THE CONCRETE AND GRANULAR BASE AND CARE SHOULD BE TAKEN DURING CURING TO PREVENT SLAB CURLING. THIS NOTE SHALL BE TYPICAL UNLESS NOTED OTHERWISE
- SAW CUT JOINTS OR KEYED CONSTRUCTION JOINTS IN SLABS ON GRADE SHALL BE SPACED TO DIVIDE THE SLAB INTO PANELS NOT TO EXCEED 225 SQUARE FEET. THE LONGER DIMENSION OF EACH PANEL SHALL NOT EXCEED THE SHORTER DIMENSIONS BY MORE THAN 40%. JOINTS SHALL BE LOCATED AT COLUMN CENTERLINES WHERE POSSIBLE. SPACINGS BETWEEN JOINTS SHALL NOT EXCEED 15 FEET. CONTRACTOR SHALL SUBMIT JOINT LAYOUT TO ARCHITECT FOR APPROVAL. REFER TO TYP DETAIL RC-001A.
- REINFORCEMENT SHALL BE CONTINUOUS AND LAPPED S3 BAR DIAMETERS (2'-6" MIN.) EXCEPT AS NOTED AND PROVIDE CORNER BARS OF SAME SIZE AND SPACING.
- CONTRACTOR SHALL COORDINATE ALL CURING COMPOUNDS WITH FLOOR FINISH REQUIREMENTS TO ENSURE COMPATIBILITY.
- FOUNDATION CONTRACTOR TO ENSURE PROPER ANCHOR ROD PROJECTION AND THAT ANCHOR RODS ARE HELD SECURELY IN POSITION PRIOR TO CONCRETE PLACEMENT. INSTALL ANCHOR RODS TO THE STRICT DIMENSIONAL TOLERANCES PER AISC REQUIREMENTS. STRUCTURAL STEEL COLUMN ANCHOR RODS SHALL BE SET WITH A RIGID TEMPLATE.
- AGGREGATES AND/OR CONCRETE MIXES SHALL BE CERTIFIED TO BE FREE OF AND ELIMINATE DAMAGE OF CONCRETE DUE TO ALKALI-SILICA REACTION OR ALKALI-AGGREGATE REACTIONS WHEN EXPOSED TO SOILS AND/OR AN EXTERIOR ENVIRONMENT.

CONCRETE MASONRY UNITS:

- ALL MASONRY SHALL BE IN ACCORDANCE WITH ACI 530/TMS 402. INDIVIDUAL CMUS SHALL BE PER ASTM C90 (4950 PSI). GROUT SHALL BE PER ASTM C476, MORTAR SHALL BE PER ASTM C270.
- MASONRY MATERIALS SHALL BE AS FOLLOWS:
 - A. f_m = 2,000 PSI MINIMUM. ALL UNITS SHALL BE NORMAL-WEIGHT BLOCK.
 - B. GROUT STRENGTH NOT LESS THAN 2,000 PSI.
 - C. MORTAR TYPE S.
- PROVIDE NOT LESS THAN 9-GAUGE HORIZONTAL LADDER-TYPE REINFORCEMENT AT NOT MORE THAN 16" OC VERTICALLY. LAPPED 8" MINIMUM. REBAR POSITIONS SHALL BE USED FOR ALL VERTICAL BARS SUCH THAT A MINIMUM 3" OF SPACE IS MAINTAINED CLEAR FOR PLACEMENT OF GROUT.
- PLACEMENT OF REINFORCEMENT SHALL OCCUR PRIOR TO PLACEMENT OF GROUT.

SPECIAL INSPECTIONS

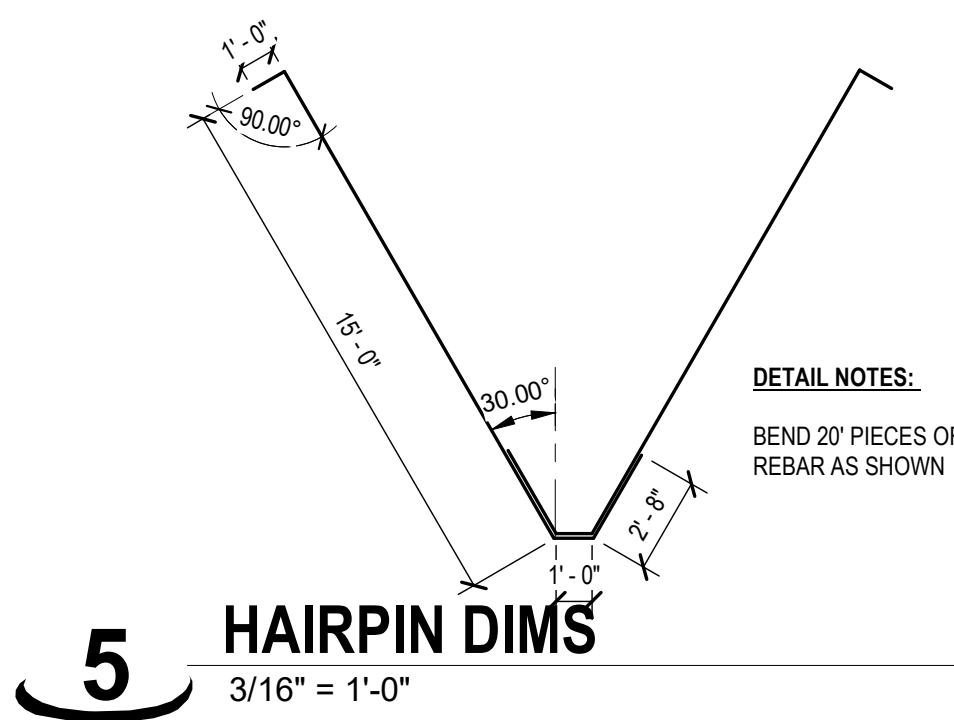
- PROVIDE SPECIAL STRUCTURAL INSPECTIONS AND VERIFICATIONS BY A THIRD PARTY MEETING THE REQUIREMENTS OF CHAPTER 17 OF THE BUILDING CODE AND THE BUILDING OFFICAL.
- SPECIAL INSPECTORS SHALL BE QUALIFIED AND FURNISH THEIR REPORTS IN A TIMELY MANNER TO THE CONTRACTOR, BUILDING OFFICIALS, ARCHITECT, AND/OR ENGINEER
- SHOULD INSPECTOR IDENTIFY ANY DISCREPANCY, THEY SHAL NOTIFY CONTRACTOR FIRST, AND THEN ARCH/ ENGINEER IMMEDIATELY THEREAFTER IF CORRECTIVE ACTION IS NEEDED.
- SPECIAL INSPECTIONS AS REQUIRED BY CODE:
 - A. CONCRETE: SECTION 1705.3 AND TABLE 1705.3 CONCRETE MATERIAL SAMPLING AND TESTING, REBAR OBSERVATIONS. TAKE SET OF (3) CYLINDERS FOR EVERY 50 C.Y., BUT NOT LESS THAN ONE SET OF SAMPLES PER DAY'S WORK AND PER MIX.
 - B. EARTHWORK: FOUNDATION BEARING, EXCAVATION, FILL PLACEMENT.
 - C. STEEL: SECTION 1705.2 AND AISC 360. PERIODIC OBSERVATIONS OF CONNECTIONS, ALL BRACED FRAME CONNECTIONS, WELDERS AND FIELD WELDING.

PRE-ENGINEERED METAL BUILDING:

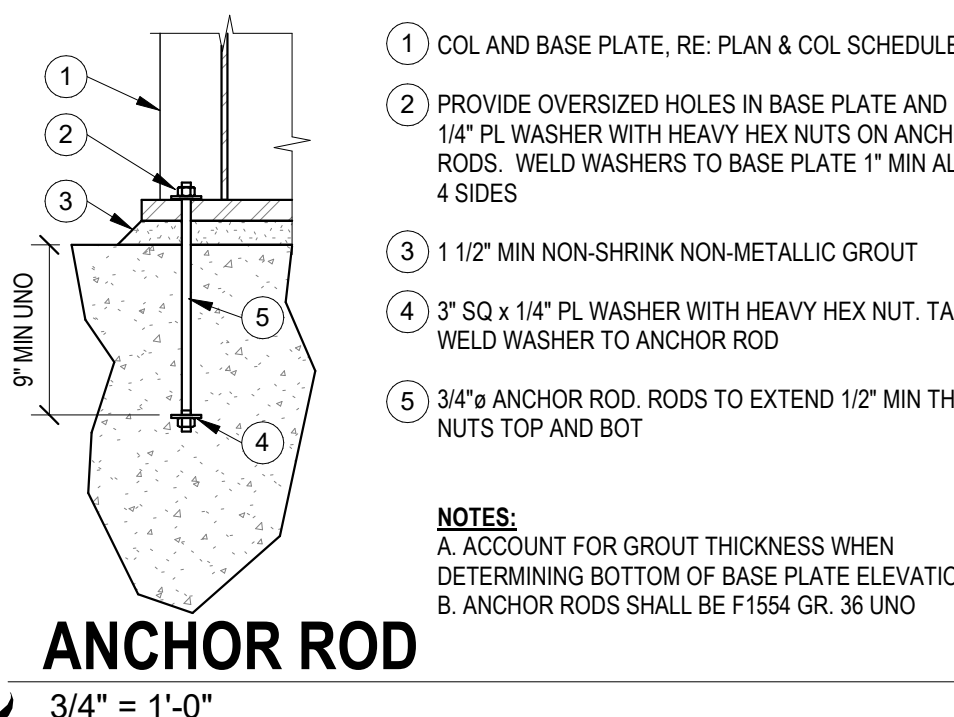
- THE FRAMING OF THE PRE-ENGINEERED METAL BUILDINGS IS THE RESPONSIBILITY OF THE OTHER PARTIES AND THEIR ENGINEER OF RECORD, AND NOT PART OF THESE STRUCTURAL DOCUMENTS.
- ALL BASE REACTIONS ARE ASSUMED TO BE PINNED.
- METAL BUILDING REACTIONS AND FOUNDATIONS HAVE BEEN ESTIMATED ONLY BASED ON STANDARD METAL BUILDING DETAILING PRACTICES. PRELIMINARY METAL BUILDING REACTIONS AND LAYOUT HAS NOT BEEN PROVIDED. FINAL METAL BUILDING DRAWINGS MUST BE PROVIDED FOR VERIFICATION OF ALL FOUNDATION SIZES AND LOCATIONS. OTHERWISE, ALL DRAWINGS ARE CONSIDERED NULL AND VOID.

SPECIAL INSPECTION OF SOILS - TABLE 1704.7			
REQD	VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
X	1. VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X
X	2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH & HAVE REACHED PROPER MATERIAL		X
X	3. PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X
X	4. VERIFY USE OF PROPER MATERIALS, DESITIES & LIFT THICKNESSES DURING PLACEMENT & COMPACTION OF CONTROLLED FILL	X	
X	5. PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X

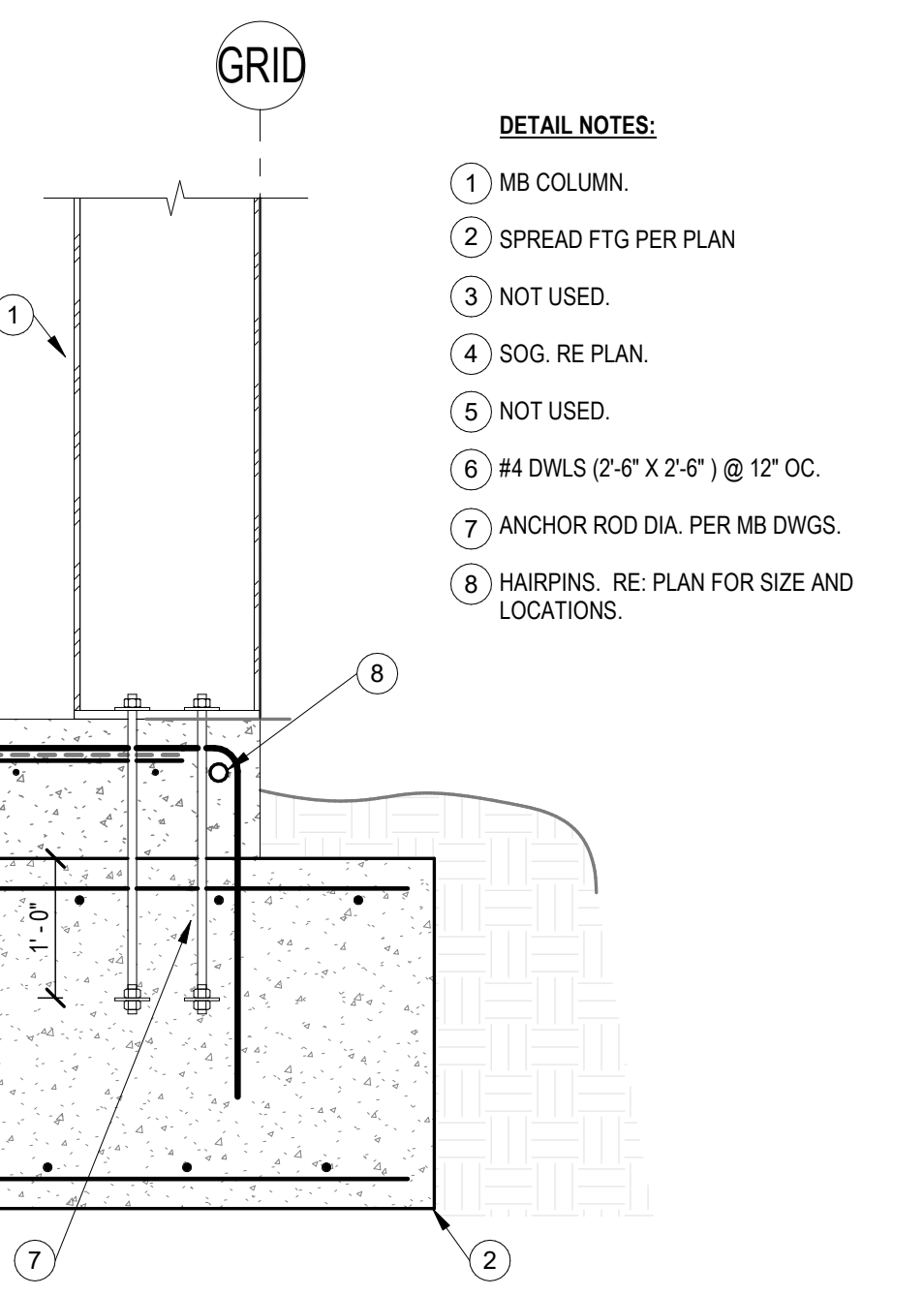
SPECIAL INSPECTION OF CONCRETE CONSTRUCTION - TABLE 1704.4			
REQD	VERIFICATION & INSPECTION	CONTINUOUS	PERIODIC
X	1. INSPECTION OF REINFORCING STEEL & PLACEMENT		X
X	2. INSPECTION OF REINFORCING STEEL WELDING IN ACCORDANCE W/ TABLE 1704.3 ITEM 5B	X	
X	3. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO & DURING PLACEMENT OF CONCRETE	X	
X	4. VERIFYING USE OF REQUIRED MIX DESIGN		X
X	5. AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLIP & AIR CONTENT TESTS, & DETERMINE THE TEMPERATURE OF THE CONCRETE	X	
X	6. INSPECTION OF CONCRETE & SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	
X	7. INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE & TECHNIQUES		X
X	8. INSPECTION OF PRESTRESSED CONCRETE		X
X	9. ERECTION OF PRECAST CONCRETE MEMBERS		X
X	10. VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES & FORMS FROM BEAMS & STRUCTURAL SLABS		X
X	11. INSPECT FORMWORK FOR SHAPE, LOCATION, & DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X



5 3/16" = 1'-0"



4 3/4" = 1'-0"

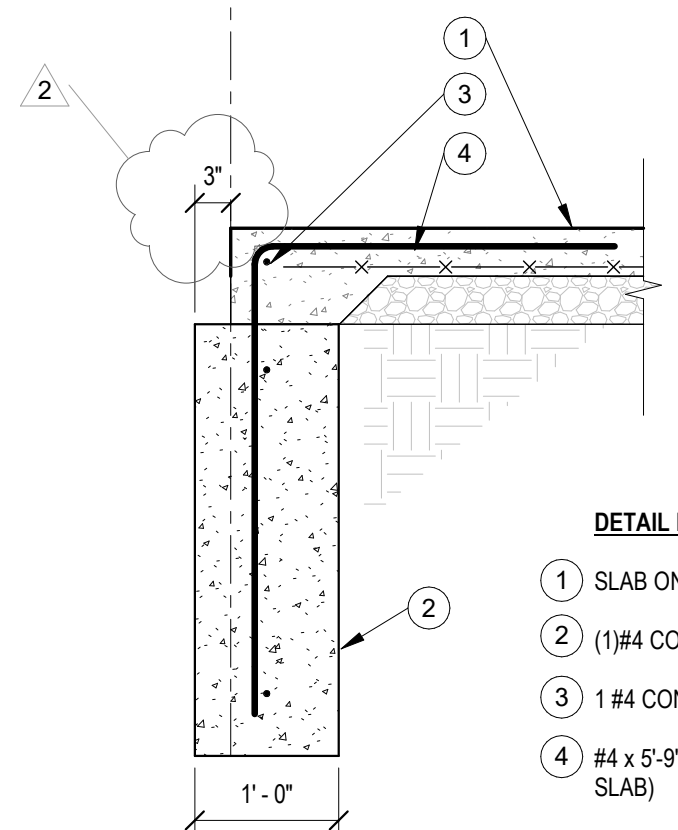


3 3/4" = 1'-0"

DEVELOPMENT AND LAP SPlice SCHEDULE														
BAR	F _c =3000 psi					F _c =4000 psi								
	EMBEDMENT		LAP SPlice			EMBEDMENT		LAP SPlice						
	COMPRESSION (LCE)	TENSION (LTE)	TOP (LCS)	TENSION (LTS)	HOOK (LDH)	COMPRESSION (LCE)	TENSION (LTE)	COMPRESSION (LCS)	TENSION (LTS)	HOOK (LDH)				
#3	8	13	12	12	28	21	6	8	12	12	12	16	7	
#4	11	21	16	15	37	28	8	9	18	14	15	24	18	9
#5	14	31	24	19	46	36	10	12	27	21	19	35	27	12
#6	16	43	33	23	56	43	12	14	37	28	23	48	37	14
#7	19	69	53	26	81	62	13	17	60	46	26	78	60	17
#8	22	85	66	30	93	71	15	19	74	57	30	96	74	19
#9	25	103	80	34	105	80	17	21	90	69	34	116	90	21
#10	28	124	96	38	118	90	19	24	108	83	38	140	108	24
#11	31	146	112	42	131	100	22	27	126	97	42	164	126	27

- NOTES (PERTAINING TO TABLE):**
 A. TOP BARS ARE HORIZONTAL BARS THAT HAVE MORE THAN 12" OF FRESH CONCRETE CAST BELOW THEM.
 B. ALL BARS THAT ARE NOT "TOP BARS" ARE "OTHER" BARS
 C. ABBREVIATIONS:
 -LCE - COMPRESSION EMBEDMENT LENGTH
 -LTE - TENSION EMBEDMENT LENGTH
 -LCS - COMPRESSION LAP SPlice LENGTH
 -LTS - TENSION LAP SPlice LENGTH
 -LDH - HOOKED BAR TENSION EMBEDMENT LENGTH
- NOTES (GENERAL):**
 A. STAGGER ALL SPlices 12 db MIN, BUT NOT LESS THAN 12"
 B. ALL DIMENSIONS INDICATED IN TABLE ARE IN INCHES
 C. BARS GREATER THAN #11 SHALL BE MECHANICALLY SPliced
 D. ALL SPlices SHALL BE WIRED IN CONTACT STACKED VERTICAL
MULTIPLIERS:
 ALL EMBEDMENT AND LAP SPlice LENGTHS SHALL BE INCREASED AS REQD BY THE MULTIPLIERS BELOW. APPLY MULTIPLE MULTIPLIERS IF APPLICABLE
 1.3 - IF CONC CONTAINS LIGHT WEIGHT AGGREGATES
 1.3 - IF EPOXY COATED REBAR USED

1 3/4" = 1'-0"



6 3/4" = 1'-0"

RELEASED FOR CONSTRUCTION
As Noted on Plans Review

POWELL
ARCHITECTURE/ENGINEERING/SURVEYING

3200 S. State Route 291, Bldg. 1, Independence, MO 64602
(816) 373-4800 | powellcivm.com

Certificates of Authority
Architecture: MO 310 / KS 73
Engineering: MO 31 / KS 241
Land Surveying: MO 123 / KS 36

CLIENT
DAVID WARD
WARD DEVELOPMENT
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GRAIN VALLEY, MO 64029
david@safetymnistrorage.com

LOT 10 LAKEWOOD BUSINESS PARK
LOT 10 I-470 BUSINESS PARK
LEE'S SUMMIT, MO 64064

STATE OF MISSOURI
JOHN E. FUNK
REGISTERED PROFESSIONAL ENGINEER
E-2000173299
01/28/22

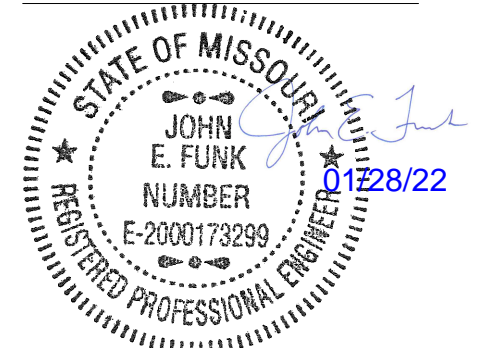
8234 Robinson Street
Overland Park, KS 66204
913-254-2169
stand-sei.com

REVISIONS
NO. DATE DESCRIPTION
1 12/16/2021 1 City Comments
2 01/26/22 2 Field Updates

DRAWN BY: TJS
CHECKED BY: JF
PROJECT #: 21094
ISSUE DATE: 08/09/2021
ISSUED FOR: PERMIT

STRUCTURAL GENERAL NOTES
S001

**LOT 10 LAKEWOOD
BUSINESS PARK**
LOT 10 I-470 BUSINESS PARK
LEE'S SUMMIT, MO 64064



REVISIONS	NO.	DATE	DESCRIPTION
	1	07/28/22	DESCRIPTION
	2		PEND Updates

DRAWN BY: TJS
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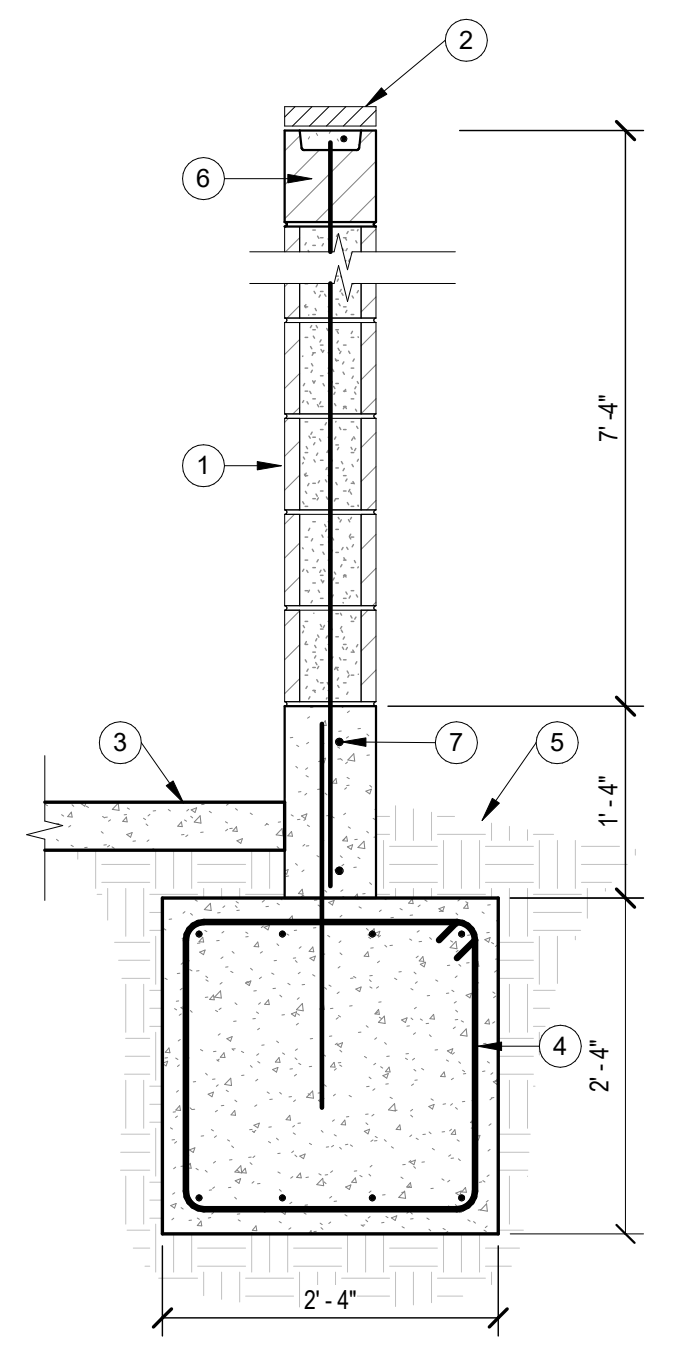
FOUNDATION PLAN

- SHEET NOTES:**
- A. REFERENCE SHEET S00x FOR STRUCTURAL GENERAL NOTES, REVIEW NOTES & DETAILS FOR APPLICABILITY.
 - B. SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN.
 - C. REFER TO S0xx FOR TYPICAL DETAILS.
 - D. TOP OF SLAB ELEVATION = 100'-0" UNO.
 - E. TOP OF TRENCH FOOTING ELEVATION = 99'-4" UNO. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 3'-0" MIN BELOW GRADE. DEEPEX FOOTINGS AS REQUIRED. GRADE IS GENERALLY 6" BELOW FINISH FLOOR ELEVATION (COORDINATE WITH CIVIL).
 - F. SPREAD FOOTINGS DENOTED ON PLAN BY "Fxx". REFER TO SCHEDULE ON THIS SHEET FOR SIZE AND REINFORCING.

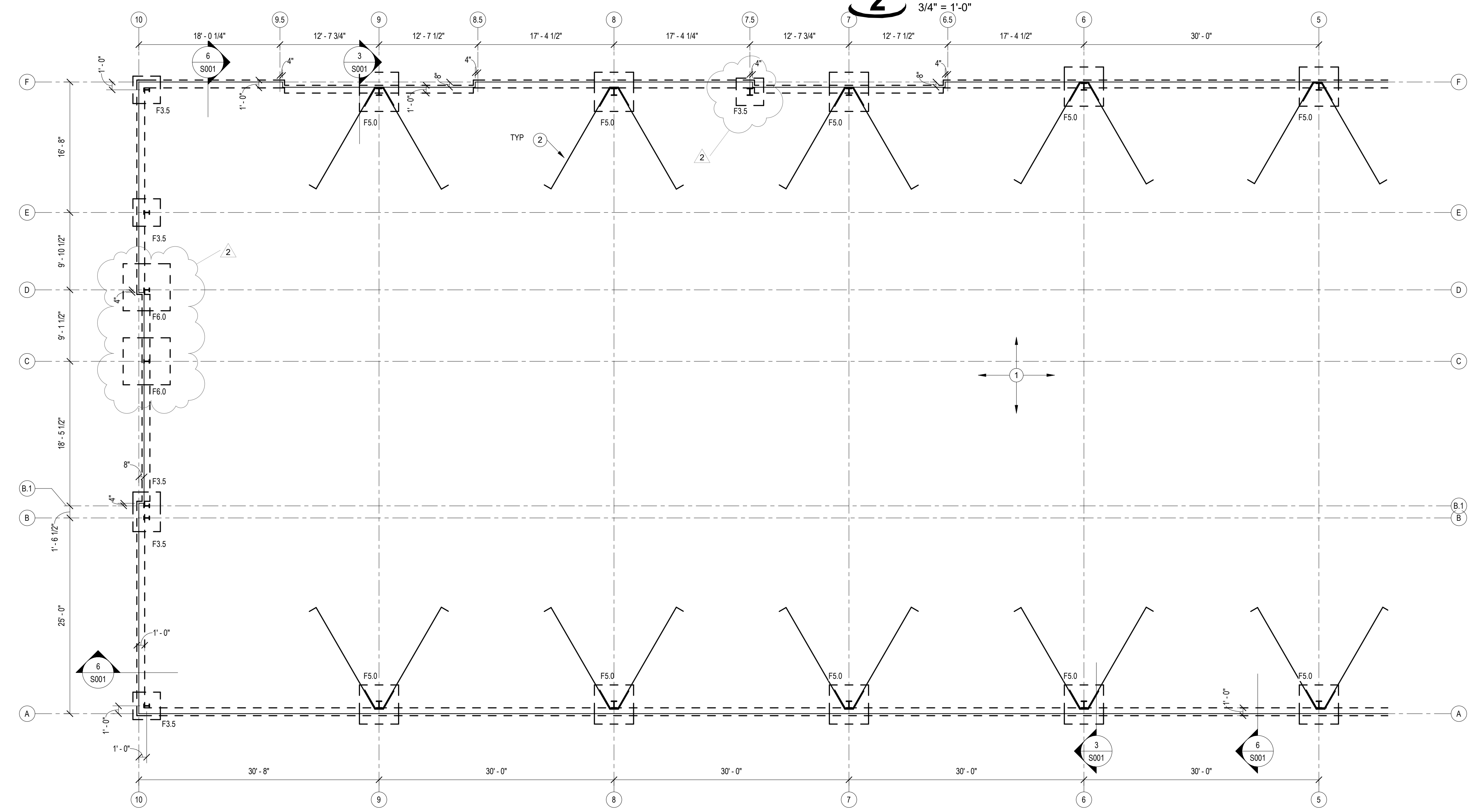
- PLAN NOTES:**
- 1. 4" CONCRETE SLAB ON GRADE. RE: GENERAL NOTES FOR REINFORCING, GRANULAR FILL, VAPOR BARRIER AND JOINTING REQUIREMENTS
 - 2. PROVIDE #5 HAIR-PIN BARS @ ALL PEMB COLUMNS RE: 5/S001

SCHEDULE - SPREAD FOOTING				
TYPE MARK	LENGTH	WIDTH	THICKNESS	REINF
F3.5	3'-6"	3'-6"	3'-0"	(8) #4 EW TOP & BOT
F5.0	5'-0"	5'-0"	3'-0"	(8) #4 EW TOP & BOT
F6.0	6'-0"	6'-0"	3'-0"	(10) #4 EW TOP & BOT

- DETAIL NOTES:**
- 1. 8" CMU WALL, FULLY GROUTED. REINF W/ #4 VERT @ 24" O.C.
 - 2. CAP STONE, RE: ARCH
 - 3. CONC SLAB RE: CIVIL
 - 4. CONC FTG W/ (4) #6 TOP & BOT & #3 TIES @ 24" OC
 - 5. GRADE RE: CIVIL
 - 6. 8" CMU BOND BM W/ (1) #4 CONT
 - 7. (2) #4 CONT HOR & #4 @ 24" OC VERT



2 TRASH ENCLOSURE SECTION



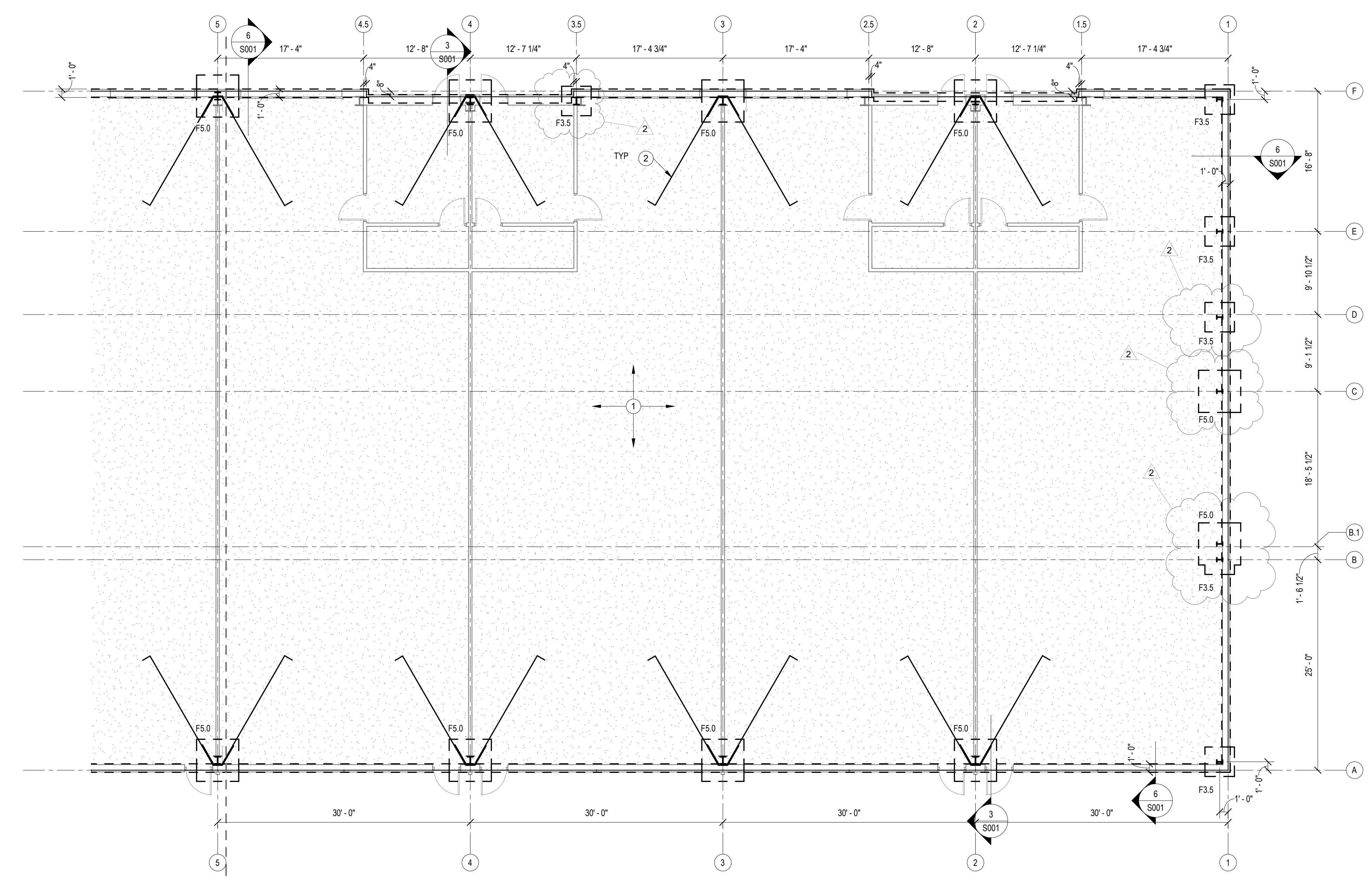
1 FOUNDATION PLAN
1/8" = 1'-0"



- SHEET NOTES:**
- A. REFERENCE SHEET S00x FOR STRUCTURAL GENERAL NOTES. REVIEW NOTES & DETAILS FOR APPLICABILITY.
 - B. SEE ARCHITECTURAL DRAWING FOR DETAILS & DIMENSIONS NOT SHOWN.
 - C. REFER TO S0xx FOR TYPICAL DETAILS.
 - D. TOP OF SLAB ELEVATION = 100'-0" UNO.
 - E. TOP OF TRENCH FOOTING ELEVATION = 99'-4" UNO. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 3'-0" MIN BELOW GRADE. DEEPEN FOOTINGS AS REQUIRED. GRADE IS GENERALLY 6" BELOW FINISH FLOOR ELEVATION (COORDINATE WITH CIVIL).
 - F. SPREAD FOOTINGS DENOTED ON PLAN BY "Fxx". REFER TO SCHEDULE ON THIS SHEET FOR SIZE AND REINFORCING.

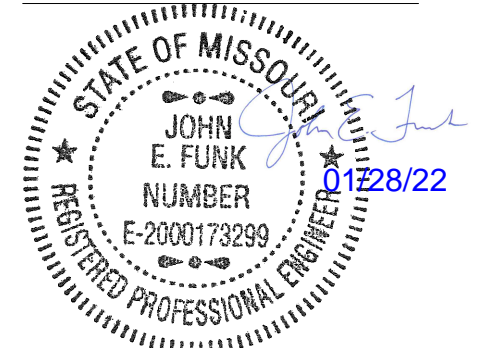
- PLAN NOTES:**
- 1 4" CONCRETE SLAB ON GRADE. RE-GENERAL NOTES FOR REINFORCING, GRANULAR FILL, VAPOR BARRIER AND JOINTING REQUIREMENTS
 - 2 PROVIDE #5 HAIR-PIN BARS @ ALL PEMB COLUMNS RE: S5/S001

SCHEDULE - SPREAD FOOTING				
TYPE MARK	LENGTH	WIDTH	THICKNESS	REINF
F3.5	3'-6"	3'-6"	3'-0"	
F5.0	5'-0"	5'-0"	3'-0"	(8) #4 EW TOP & BOT
F6.0	6'-0"	6'-0"	3'-0"	(10) #4 EW TOP & BOT



1 FOUNDATION PLAN
1/8" = 1'-0"

LOT 10 LAKEWOOD BUSINESS PARK
LOT 10 I-470 BUSINESS PARK
LEE'S SUMMIT, MO 64064



REVISIONS	NO.	DATE	DESCRIPTION
	1	02/09/2021	City Comments
	2	07/28/22	Field Updates

DRAWN BY: TJS
CHECKED BY: JF
PROJECT #: 21094
ISSUE DATE: 08/09/2021
ISSUED FOR: PERMIT

FOUNDATION PLAN