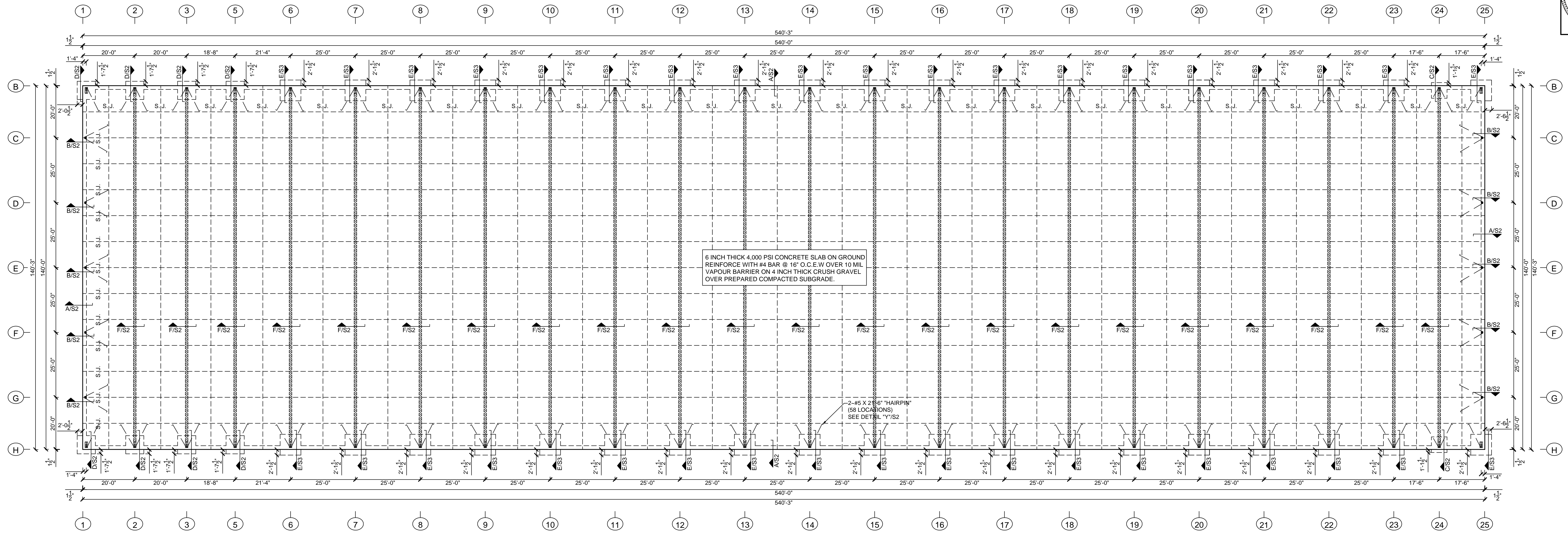




10/23/2022



FOUNDATION PLAN
 SCALE: 1/18" = 1'-0"

REVISIONS		DESCRIPTION
NO	DATE	BY
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MANUAL COLLISION
 501 LATTA RD.
 ADA, OKLAHOMA 74820

DRAWING NAME FOUNDATION PLAN		CAD
FILENAME	JOB #	SCALE
DRAWN MM		AS NOTED
CHECKED		DATE
APPROVED		10-22-22

GENERAL CONSTRUCTION NOTES

- ALL MATERIAL & WORKMANSHIP SHALL CONFORM TO THE REQUIREMENTS OF BOTH LOCAL CODE & CODE LISTED IN DESIGN LOAD TABLE
- CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB SITE AND REPORT ANY ERRORS, OMISSIONS, OR POSSIBLE DISCREPANCIES TO THE ENGINEER PRIOR TO COMMENCING ANY WORK. SPECIAL CARE SHALL BE GIVEN TO THE SITE AND TO THE BUILDING LAYOUT THEREON.
- COSTS OF ADDITIONAL DESIGN WORK NECESSITATED BY SELECTION OF AN OPTION OR DUE TO ERRORS OR OMISSIONS IN CONSTRUCTION, SHALL BE BORNE BY THE CONTRACTOR.
- WHERE SOIL REPORT IS CITED, ITS REQUIREMENTS SHALL BE ADOPTED HEREIN.
- ALL MANUFACTURED PRODUCTS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE EXECUTION OF THIS WORK.
- REFER TO PROJECT SPECIFICATIONS FOR MATERIAL SPECIFICATIONS AND PERFORMANCE REQUIREMENTS NOT COVERED BY THE STRUCTURAL DRAWINGS.
- ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE SHOWN.
- NO CONCRETE OR MASONRY WORK SHALL BE PERFORMED DURING HEAVY RAIN, SNOW, OR HAIL, OR WHEN THE TEMPERATURE OF THE OUTSIDE AIR IS BELOW 40 DEGREES F. UNLESS APPROVED METHODS ARE USED TO PREVENT FREEZING OF CONCRETE AND MASONRY. SUCH METHODS SHALL PREVENT THE MATERIALS FROM FREEZING FOR AT LEAST 48 HOURS. ALL MATERIALS USED AND MATERIALS BUILT UPON SHALL BE FREE FROM ICE AND SNOW. ALL MATERIALS ALLOWED TO FREEZE SHALL BE REMOVED AND REPLACED WITH NEW WORK. ALL AT THE EXPENSE OF THE CONTRACTOR.

REINFORCING STEEL

- REINFORCING STEEL SHALL BE INTERMEDIATE GRADE DEFORMED BARS CONFORMING TO ASTM A-615, GRADE 60 TYPICALLY. LAP BARS A MINIMUM OF 36 DIAMETERS, WHERE GRADE 40 IS REQUIRED ON PLANS, LAP 30 DIAMETERS. STAGGER LAPS WHERE PERMISSIBLE. LAP BARS A MINIMUM OF 48 DIAMETERS IN MASONRY. USE GRADE 60 TYPICALLY, USE GRADE 40 FOR TIES & DOWELS (#3 OR SMALLER).
- WIRE MESH SHALL CONFORM TO ASTM A-185. LAP 6" MINIMUM.
- FOOTING DOWELS SHALL MATCH VERTICAL WALL OR COLUMN STEEL. LAP 36 DIAMETERS.
- AT ALL OPENINGS IN CONCRETE, CONCRETE BLOCK AND BRICK MASONRY, PROVIDE AT LEAST 2-#5 BARS AT JAMBS, HEAD AND SILL, EXTENDING 2'-0" BEYOND EDGES OF OPENING.
- MINIMUM CONCRETE COVER SHALL BE:
 - 3".....CONCRETE POURED AGAINST EARTH.
 - 2".....FORMED CONCRETE WHICH WILL REMAIN IN CONTACT WITH EARTH.
 - 1 1/2".....BEAMS, MEASURED TO MAIN STEEL; COLUMNS MEASURED TO TIES OR SPIRALS; EXPOSED TO EARTH OR WEATHER.
 - 3/4".....SLABS; INSIDE FACES OF WALLS.
- ALL WELDED REINFORCING BARS SHALL BE A706 REINFORCING BARS.

FOUNDATION NOTES

- FOOTINGS ARE DESIGNED FOR AN ALLOWABLE SOIL BEARING CAPACITY OF 2,000 PSF. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SOIL PROPERTIES OF THE SITE. CONTRACTOR SHALL ORDER A SOIL TEST REPORT AND FOLLOW ALL RECOMMENDATIONS. IF RESULTS FROM THE SOIL INVESTIGATION ARE IN CONTRADICTION WITH THIS DESIGN, CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH CONSTRUCTION.
- VERIFY ALL DIMENSIONS, SLOPES, DEPRESSIONS, EMBEDMENT, ETC. BEFORE PLACING CONCRETE.
- THE SOILS REPORT SHALL BE KEPT AT THE JOB SITE AT ALL TIMES. SUBGRADE PREPARATION, COMPACTED FILL AND BACKFILL SHALL CONFORM TO THE SOIL REPORT AND SHALL BE INSPECTED AND APPROVED IN WRITING BY A QUALIFIED SOILS ENGINEER AND AS CALLED OUT ON THE GRADING PLAN.
- PRIOR TO PLACING FORM WORK, REINFORCING, OR CONCRETE, A QUALIFIED SOILS ENGINEER SHALL INSPECT AND APPROVE IN WRITING THE FOOTING EXCAVATION RELATIVE TO NATURAL GRADE, COMPACTED FILL AND FINISH GRADE AND SHALL VERIFY THE ALLOWABLE SOIL BEARING STRESS. COPIES OF THE INSPECTION REPORT SHALL BE SENT TO THE ARCHITECTS AND OWNERS REPRESENTATIVE IMMEDIATELY.
- PROTECT BOTTOM OF EXCAVATION FOR FOUNDATION AGAINST FROST AND KEEP FREE OF WATER, DEBRIS AND LOOSE CONCRETE MATERIAL.
- THE FOUNDATION DESIGN IS BASED ON POTENTIAL VERTICAL MOVEMENT, P.V.M. OF THE ORDER OF 1" OR LESS. IF THIS VALUE IS NOT ACCEPTABLE TO THE CLIENT THE FOUNDATION DESIGN MUST BE REVISED.
- THE ENGINEER SHALL BE NOTIFIED OF ALL SITE CONDITIONS AND/OR OBSTRUCTIONS NOT SPECIFICALLY COVERED BY THE SOILS REPORT BEFORE ANY ACTION IS TAKEN BY THE CONTRACTOR.
- PIERS ARE CENTERED UNDER THE COLUMNS, UNLESS NOTED OTHERWISE.
- BECAUSE OF THE ELAPSED TIME AND LOCATION OF ACTUAL FOOTING EXCAVATION THE CURRENT SOIL CONDITION MAY DIFFER SIGNIFICANTLY FROM THE SAMPLES THAT WERE USED IN THE DEVELOPMENT OF THE PROJECT GEO-TECH. REPORT. THEREFORE IT IS RECOMMENDED THAT THE BUILDING OWNER CONSULT WITH THE PROJECT GEO-TECH. ENGINEER TO DETERMINE IF THE FOUNDATION DESIGN PARAMETERS ARE CONSISTENT WITH THE CURRENT SOIL CONDITION.
- THIS FOUNDATION DESIGN MEETS THE REQUIREMENTS OF IBC 2015

CONCRETE AND EMBEDDED ITEMS

- ALL CONCRETE SHALL BE MIXED, FORMED AND PLACED ACCORDING TO FOLLOWING A.C.I. CODES, LATEST EDITION.
 - ACI 318 BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
 - ACI 305 HOT WEATHER CONCRETING
 - ACI 306 COLD WEATHER CONCRETING
- THE MAXIMUM WATER / CEMENT RATIO SHALL BE 0.5. READYMIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94. MAXIMUM SLUMP SHALL BE 5" AS MEASURED BY THE ASTM "STANDARD METHOD OF TESTING FOR SLUMP OF PORTLAND CEMENT CONCRETE".
- CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS PER ASTM C 39.
- CEMENT FOR CONCRETE OR MASONRY MORTAR SHALL BE A STANDARD BRAND "PORTLAND CEMENT", MEETING THE REQUIREMENT OF ASTM C-150M TYPE 1. CEMENT SHALL BE "TYPE II". (USE TYPE V CEMENT IF REQUIRED BY SOILS REPORT)
- AGGREGATES FOR CONCRETE SHALL MEET THE REQUIREMENTS OF ASTM C-33.
- CONTRACTOR MAY USE AN APPROVED WATER REDUCING ADMIXTURE CONFORMING TO ASTM C-494.
- SLAB ON GRADE AS NOTED ON PLAN SHALL BE POURED ON FIRM, MOISTENED, COMPACT EARTH. CONSTRUCTION OR CONTRACTION JOINTS SHALL BE SPACED A MAXIMUM OF 15' APART.
- BEFORE PLACEMENT OF CONCRETE, THE CONTRACTOR SHALL VERIFY PROPER PLACEMENT OF ALL ITEMS OF WORK WHICH ARE EMBEDDED IN THE CONCRETE WORK. THE FOOTINGS SHALL HAVE BEEN INSPECTED AND APPROVED BY A QUALIFIED SOILS ENGINEER BEFORE CONCRETE PLACEMENT. FOOTINGS SHALL BE FREE OF STANDING WATER.
- ALL ANCHOR BOLTS SHALL HAVE A STANDARD HEAD AT EMBEDDED END. ANCHOR BOLTS SHALL BE SPACED 12 BOLT DIAMETERS MINIMUM. MINIMUM EMBEDMENT OF ANCHOR BOLTS SHALL BE 7" IN FOOTINGS AND 7" INTO VERTICAL CONCRETE SURFACES, U.N.O.
- BOLTS IN SIMPSON SET EPOXY, MAY BE USED IN LIEU OF ANCHOR BOLTS WHERE SPECIAL CONDITIONS WARRANT THEIR USE, PROVIDED THAT WRITTEN APPROVAL OF THE ENGINEER IS OBTAINED. SIZE OF SUCH ANCHORS SHALL BE ONE NOMINAL SIZE LARGER OR THEIR NUMBER SHALL BE INCREASED BY 25% WHERE APPLIED TO VERTICAL SURFACES.
- GROUT SHALL CONSIST OF 1 PART CEMENT, TO NOT MORE THAN 3 PARTS SAND AND NOT LESS THAN 1 PART NOR MORE THAN 2 PARTS PER GRAVEL BASED ON DRY LOOSE VOLUMES. GROUT SHALL BE OF FLUID CONSISTENCY. APPROVED ADMIXTURES MAY BE ADDED TO GROUT MIX. GROUT SHALL ATTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- DRYPACK SHALL CONSIST OF 1 PART CEMENT, 4 PARTS SAND, BASED ON DRY LOOSE VOLUMES AND NOT LESS THAN 1/4 PART NOR MORE THAN 1/2 PART LIME PUTTY OR DRY HYDRATED LIME. DRYPACK SHALL OBTAIN A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.
- ALL CONCRETE EMBEDMENTS, INCLUDING FOUNDATION BOLTS, SHALL BE TIED IN PLACE PRIOR TO FOUNDATION EXCAVATION INSPECTION.
- FINE AGGREGATE SHALL BE COMPOSED OF CLEAN HARD PARTICLES WITH NOT MORE THAN 2% BY WEIGHT OF DELETERIOUS SUBSTANCES.
- COMBINED GRADING OF AGGREGATES SHALL CONFORM TO THE REQUIREMENT OF THE PROJECT SPECIFICATION.
- THE CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 318 AND 347.
- CONCRETE FINISHES AND CURING SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
- ANCHOR BOLTS SHALL BE POSITIONED WITH A TEMPLATE PRIOR TO PLACING CONCRETE IN PIER OR FOOTING. NUTS SHALL BE TIGHTENED ON EACH SIDE OF TEMPLATE TO HOLD THE ANCHOR BOLTS IN PLACE.
- ADDITIONAL MATERIALS INCLUDE: VAPOR BARRIER 10 MIL POLYETHYLENE, EXPANSION JOINT MATERIAL - PREFORMED STRIPS COMPLYING WITH ASTM D1752 TYPE 1, CURE/SEAL COMPOUND - COMPLY WITH ASTM C309 TYPE 1 CLASS B WATER-BASE ACRYLIC MEMBRANE.

SOIL AND FOUNDATION

REFERENCE STANDARDS: Conform to IBC Chapter 18 "Soils and Foundation"

GEOTECHNICAL REPORT: No geotechnical report was provided.

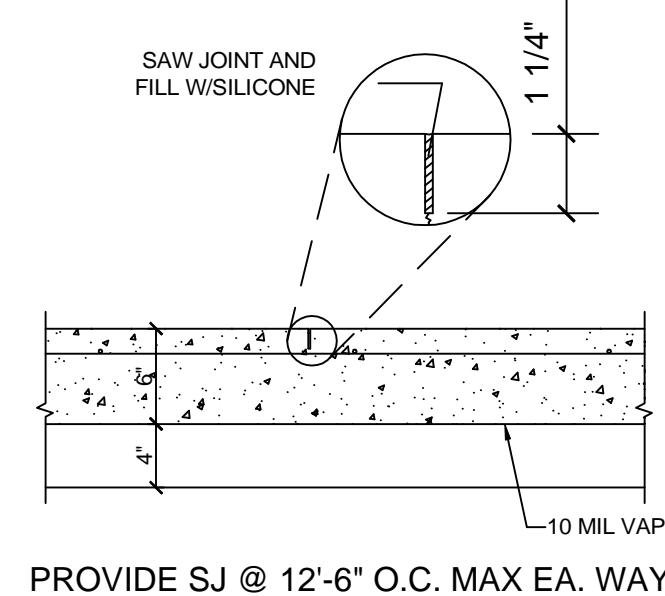
CONTRACTOR'S RESPONSIBILITIES: Contractor shall be responsible to review the geotechnical report and shall follow the recommendations specified therein including, but not limited to, subgrade preparations, pile installation procedure, ground water management and steep slope Best Management practices.

GEOTECHNICAL SUBGRADE INSPECTION: The Geotechnical Engineer shall inspect all sub-grades and prepared soil bearing surfaces, prior to placement of foundation reinforcing steel and concrete. Geotechnical Engineers shall provide a letter to the owner stating that soils are adequate to support the "Allowable Foundation Bearing Pressure (S)" shown below. Assumed values shall be field verified by Building Officials or Geotechnical Engineer prior to placing concrete.

DESIGN SOIL VALUES:
 Allowable Foundation Bearing Pressure..... 2000 PSF
 Passive Lateral Pressure..... 200 PSF/FT
 Coefficient of Sliding Friction..... 0.35

FOUNDATION AND FOOTING: Foundations shall bear on either on competent native soil or compacted structural fill as per the geotechnical report. Exterior perimeter footing shall bear not less than 24 inches below finish grade, unless otherwise specified by the geotechnical engineer and/or the building official.

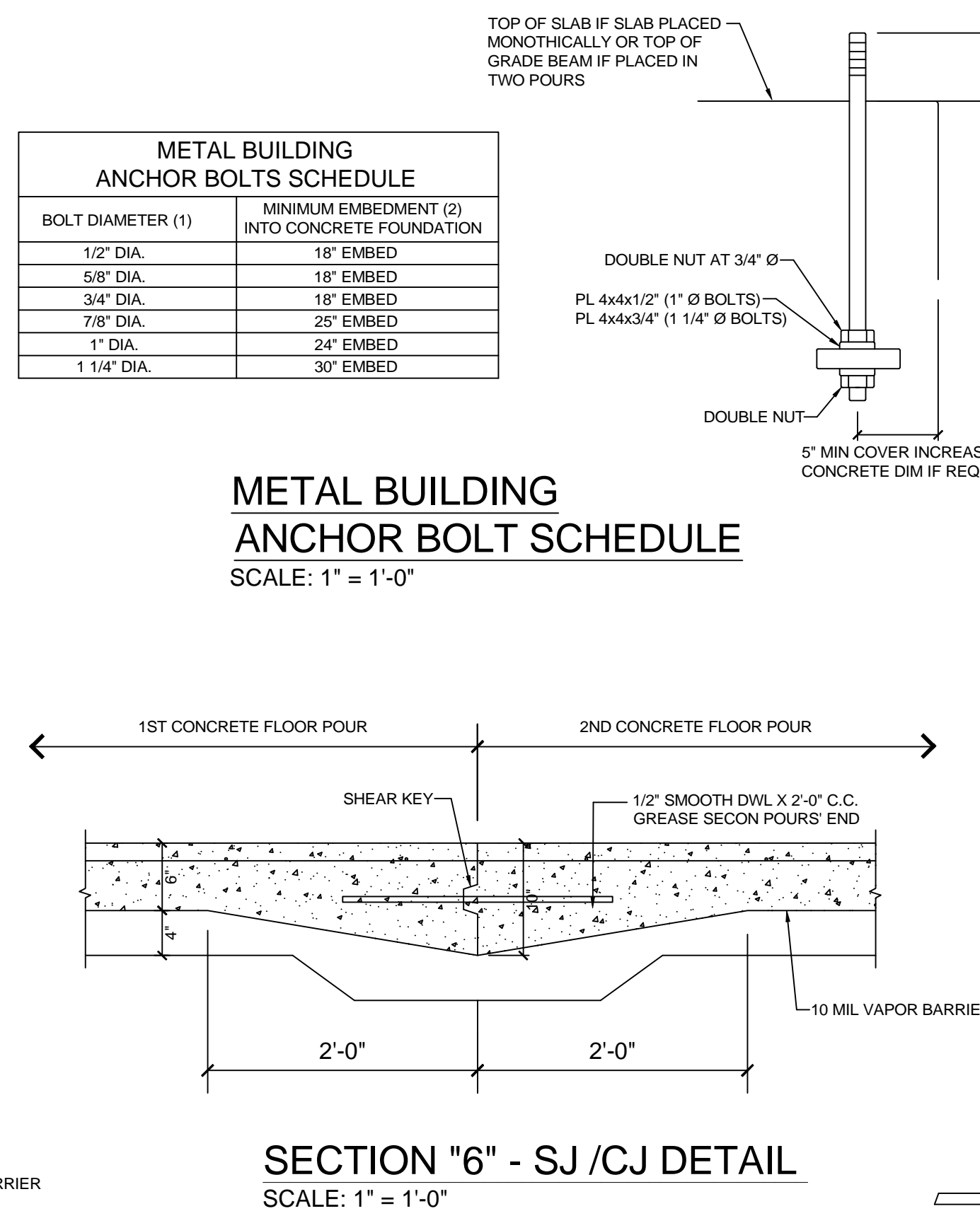
SLABS-ON-GRADE: All slabs-on-grade shall bear on compacted structural fill or competent native soil per the geotechnical report. All moisture sensitive slabs-on-grade or those subject to receive moisture sensitive coatings/coverings shall be provided with an appropriate capillary break and vapor barrier/retardant over the subgrade prepared and install as noted in the geotechnical report, barrier manufacturer's written recommendations and coordinated with the finishes specified by the Architect.



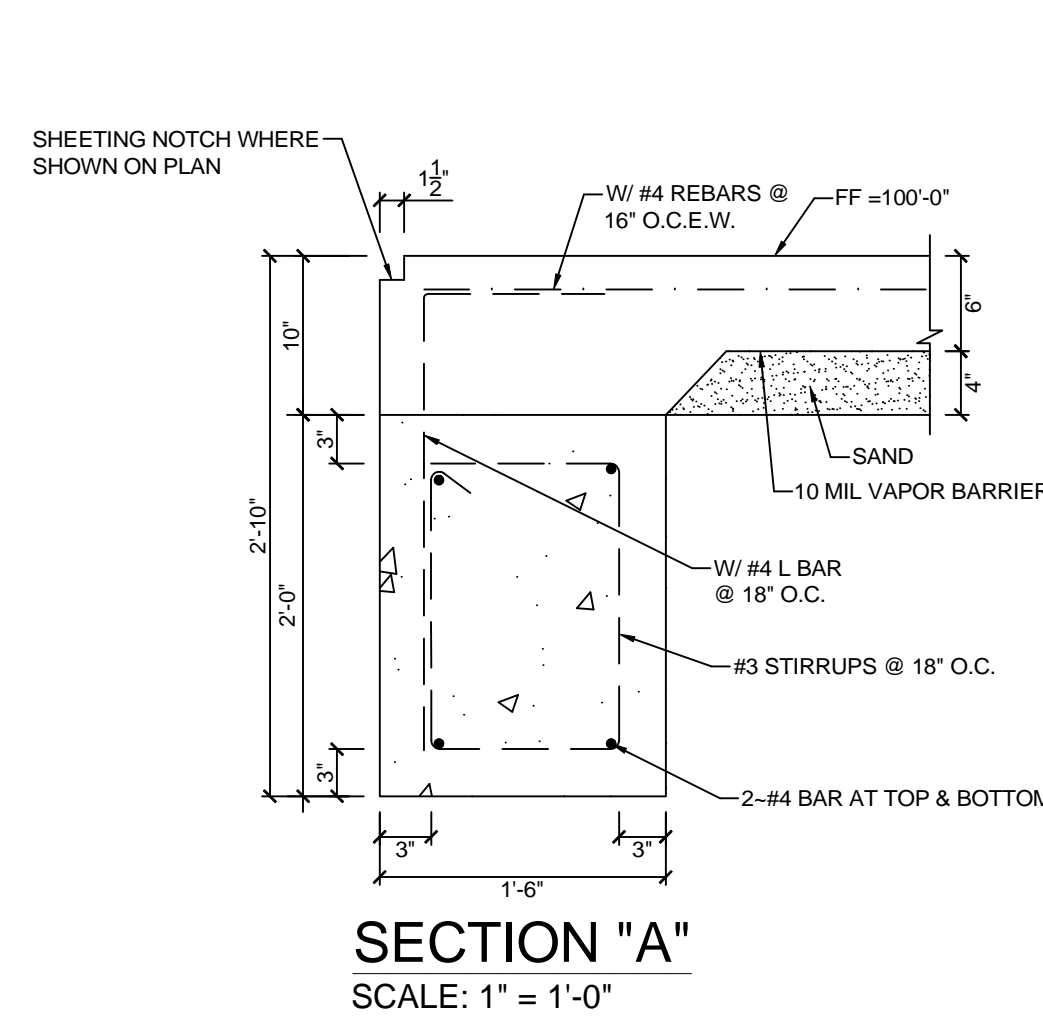
METAL BUILDING ANCHOR BOLTS SCHEDULE	
BOLT DIAMETER (1)	MINIMUM EMBEDMENT (2) INTO CONCRETE FOUNDATION
1/2" DIA.	18" EMBED
5/8" DIA.	18" EMBED
3/4" DIA.	18" EMBED
7/8" DIA.	25" EMBED
1" DIA.	24" EMBED
1 1/4" DIA.	30" EMBED

METAL BUILDING ANCHOR BOLT SCHEDULE

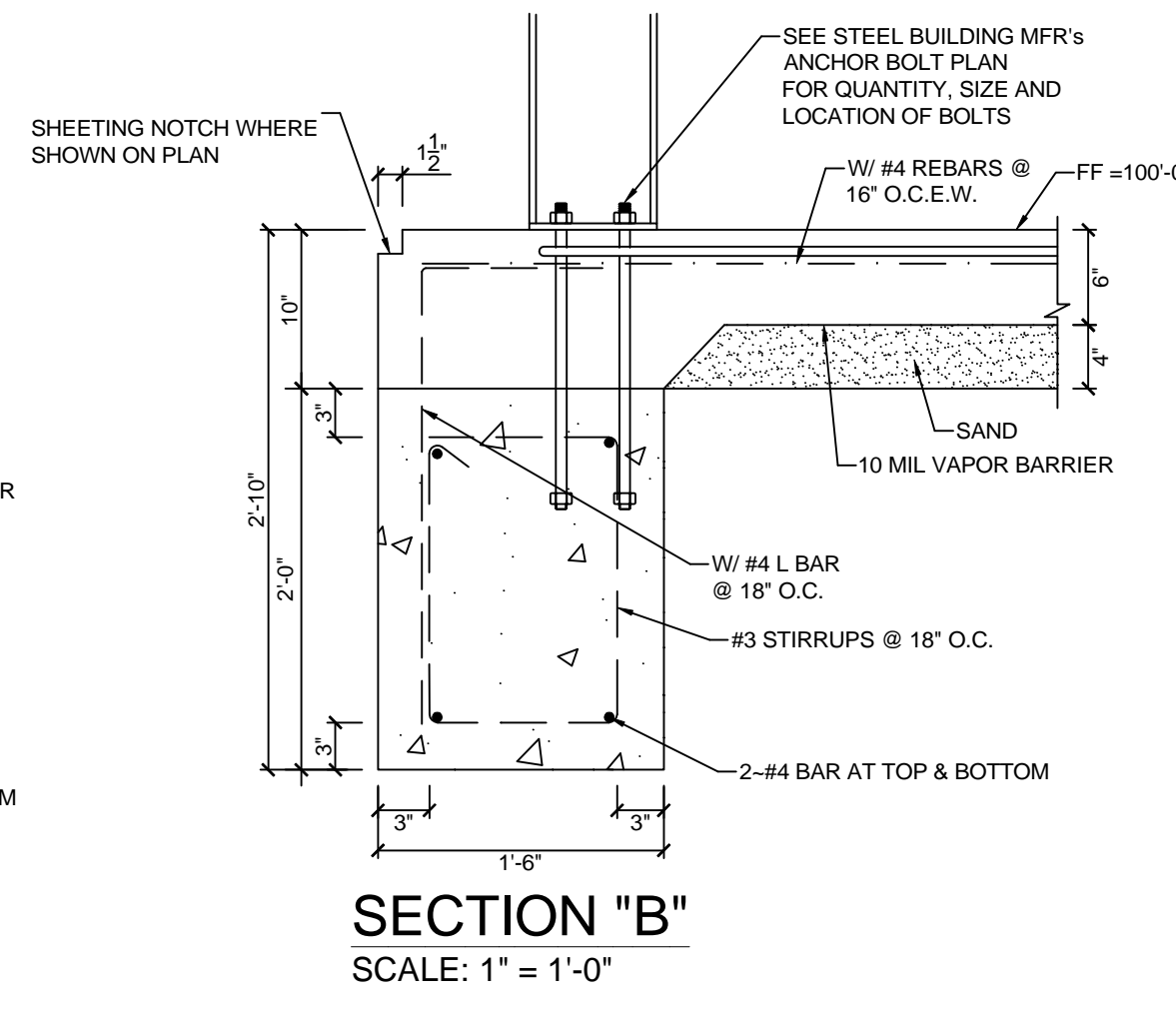
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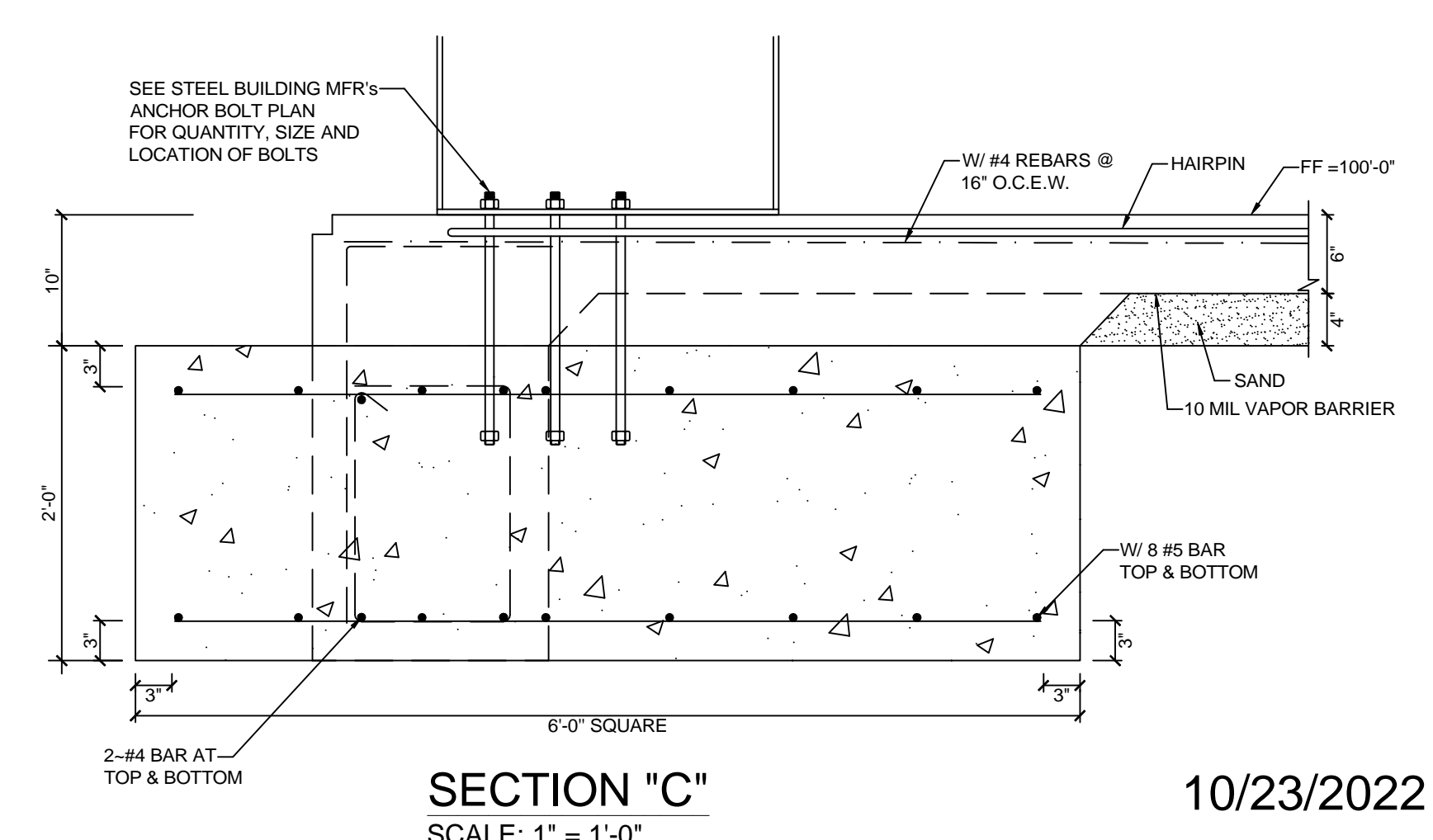
SECTION "6" - SJ /CJ DETAIL
SCALE: 1" = 1'-0"



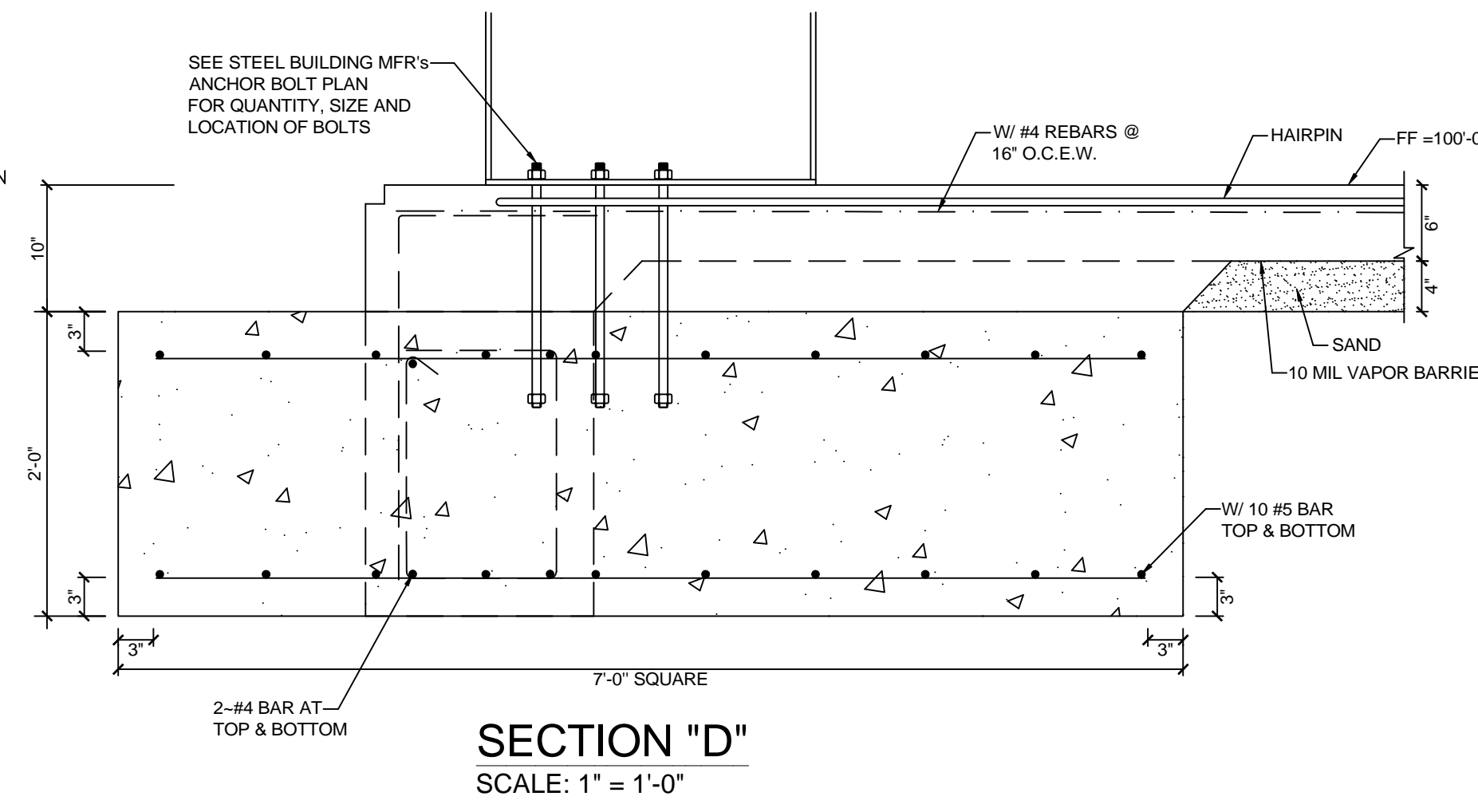
SECTION "A"
SCALE: 1" = 1'-0"



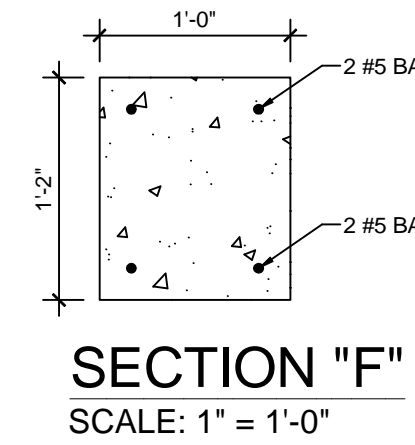
SECTION "B"
SCALE: 1" = 1'-0"



SECTION "C"
SCALE: 1" = 1'-0"



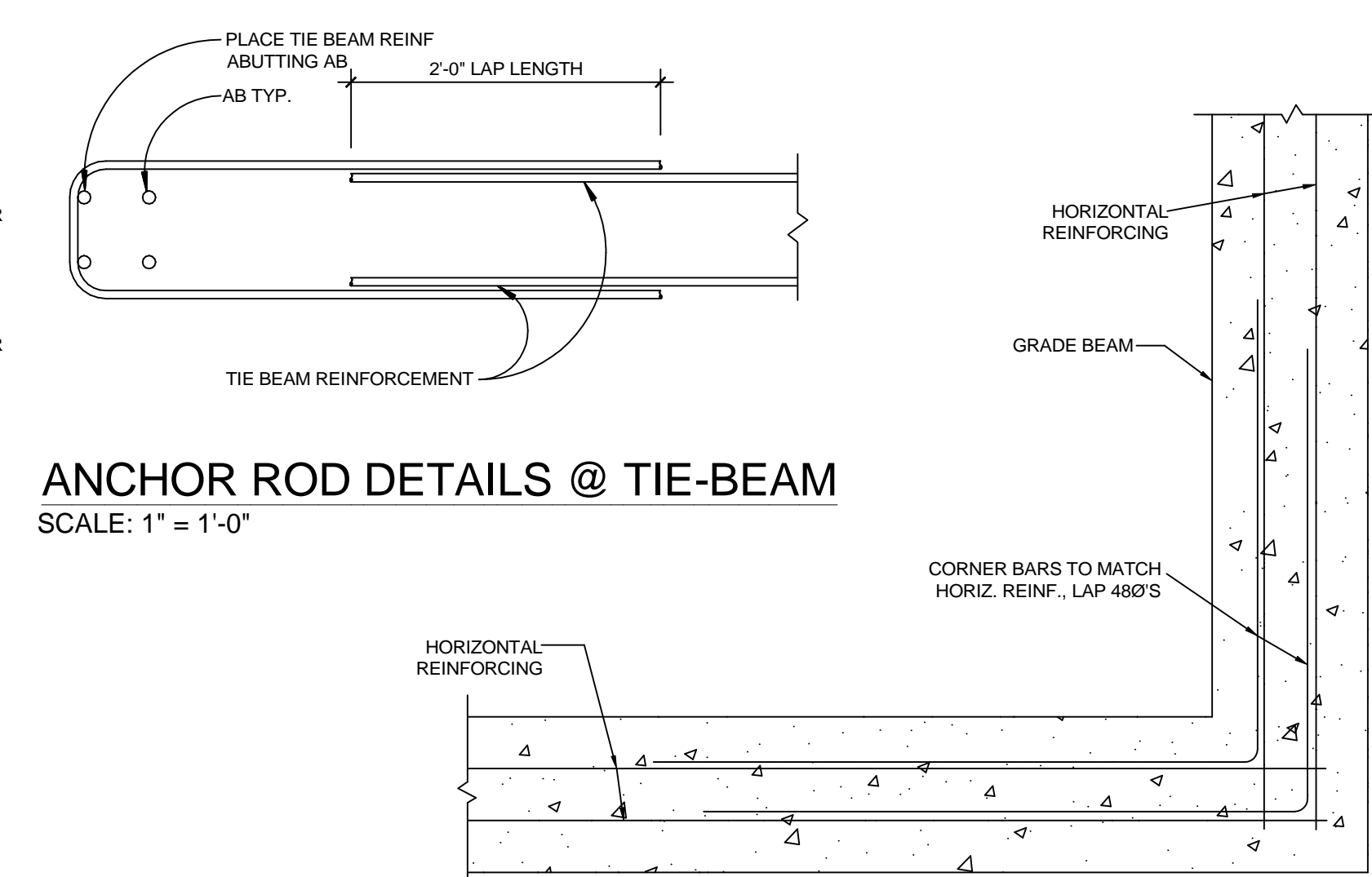
SECTION "D"
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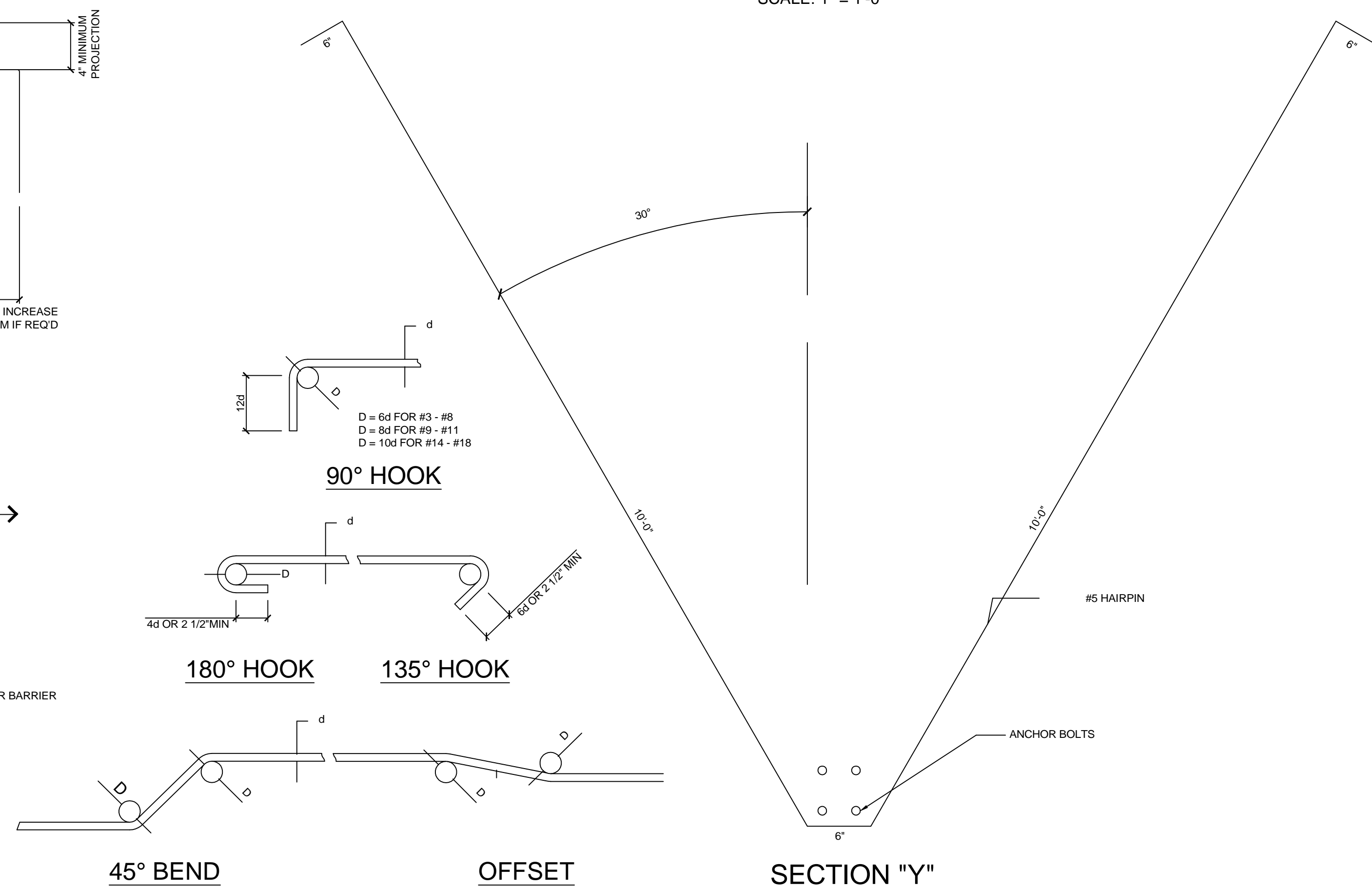
SECTION "F"
SCALE: 1" = 1'-0"

ANCHOR ROD DETAILS @ TIE-BEAM

SCALE: 1" = 1'-0"



SECTION "2" - REINFORCEMENT PLAN
SCALE: 1" = 1'-0"



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 5101 SE 155TH STREET,
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 TEL. 405-496-7887



10/23/2022

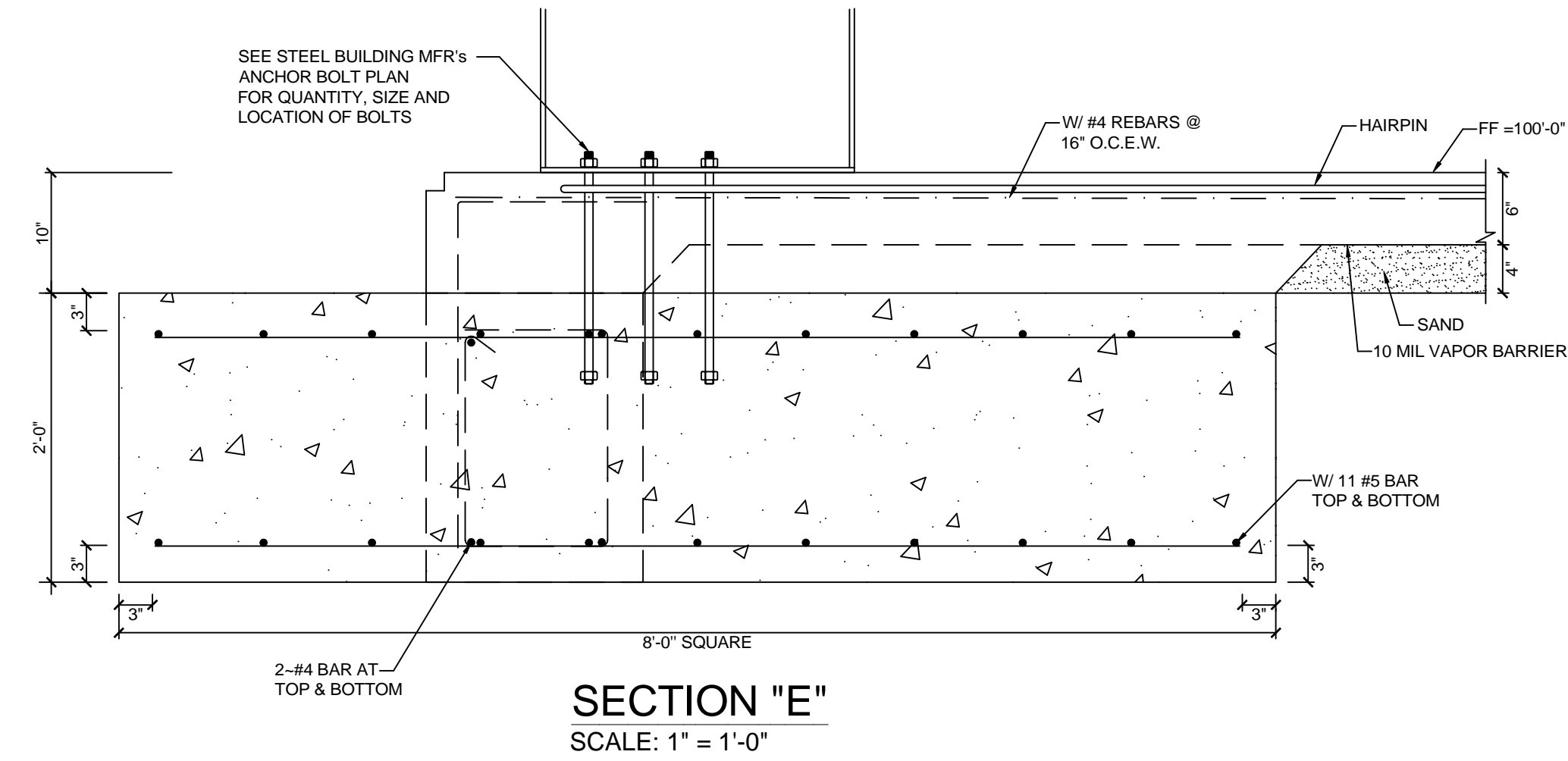
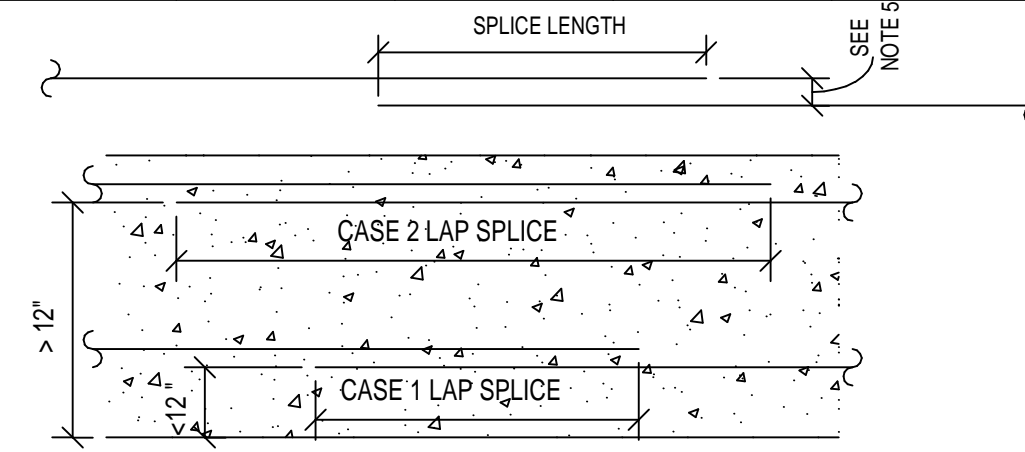
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MANUAL COLLISION
 501 LATTA RD.
 ADA, OKLAHOMA 74820

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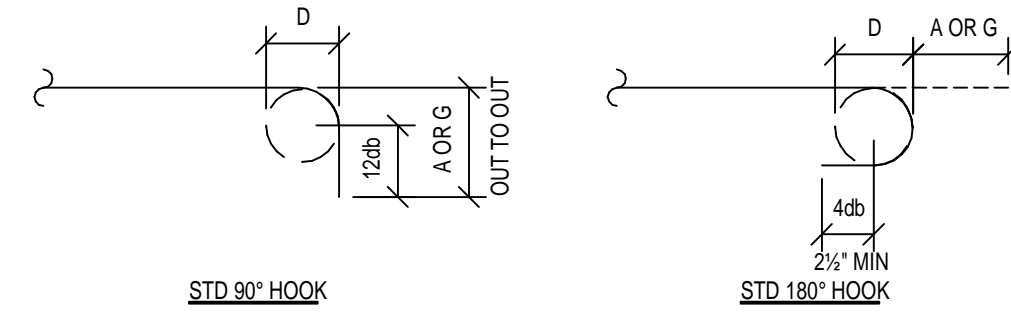
CASE 1: CLASS B SPLICE LENGTHS OF REINFORCEMENT IN TENSION, Ld (IN) FY = 60,000 PSI NORMALWEIGHT CONCRETE, fc (PSI)						CASE 2: CLASS B SPLICE LENGTHS OF REINFORCEMENT IN TENSION, Ld (IN) FY = 60,000 PSI NORMALWEIGHT CONCRETE, fc (PSI)					
BAR SIZE	db (IN)	fc = 3,000	fc = 4,000	fc = 5,000	fc = 5,000	BAR SIZE	db (IN)	fc = 3,000	fc = 4,000	fc = 5,000	fc = 5,000
#3	0.375	21	18	17	15	#3	0.375	28	24	22	20
#4	0.5	28	25	22	20	#4	0.5	37	32	29	26
#5	0.625	36	31	28	30	#5	0.625	46	40	36	33
#6	0.75	43	37	33	44	#6	0.75	56	48	43	39
#7	0.875	62	54	48	44	#7	0.875	81	70	63	57
#8	1.00	71	62	55	50	#8	1.00	93	80	72	65
#9	1.128	80	70	62	57	#9	1.128	104	90	81	74
#10	1.27	90	78	70	64	#10	1.27	118	102	91	83
#11	1.41	100	87	78	71	#11	1.41	131	113	101	92

- NOTES:
- CASE 1 APPLIES TO REINFORCEMENT THAT HAS LESS THAN 12" OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT. ALL VERTICAL REINFORCEMENT FALLS UNDER CASE 1.
 - CASE 2 APPLIES TO REINFORCEMENT THAT HAS MORE THAN 12" OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT. CLEAR SPACING OF BARS BEING DEVELOPED MUST BE AT LEAST 2db (DIA OF BAR) & CLEAR COVER AT LEAST db. INCREASE DEVELOPMENT LENGTH IF OTHERWISE.
 - FOR EPOXY COATED REINFORCEMENT INCREASE THE LENGTH BY A FACTOR OF 1.2.
 - ADJACENT BARS THAT ARE TO BE SPLICED SHALL BE IN CONTACT AND TIED TOGETHER WHERE POSSIBLE. WHERE CONTACT IS NOT POSSIBLE, THE MAXIMUM OFFSET SHALL BE ONE-FIFTH THE REQUIRED LAP SPLICE LENGTH OR 6", WHICHEVER IS LESS.



3 TENSION LAP SPLICE LENGTH
1" = 1'-0"

STANDARD END HOOK DIMENSIONS (IN)				
BAR SIZE	D	180° HOOKS		90° HOOKS
		A or G	J	A or G
#3	2 1/4	5	3	6
#4	3	6	4	8
#5	3 3/4	7	5	10
#6	4 1/2	8	6	12
#7	5 1/4	10	7	14
#8	6	11	8	16
#9	9 1/2	15	11 3/4	19
#10	10 3/4	17	13 1/4	22
#11	12	19	14 3/4	24



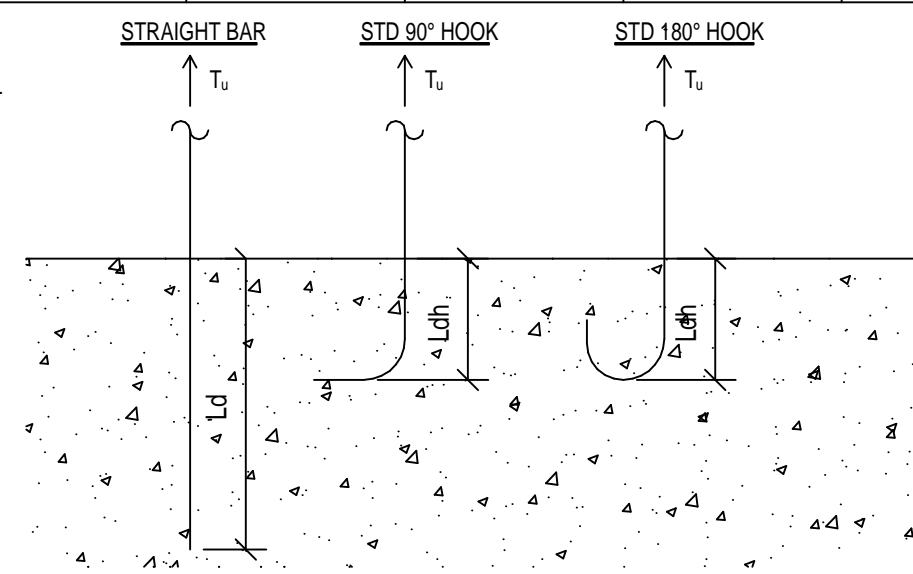
5 STANDARD END HOOK DIMENSIONS
1" = 1'-0"

CASE 1: DEVELOPMENT LENGTHS OF REINFORCEMENT IN TENSION, Ld (IN) FY = 60,000 PSI NORMALWEIGHT CONCRETE, fc (PSI)						CASE 2: DEVELOPMENT LENGTHS OF REINFORCEMENT IN TENSION, Ld (IN) FY = 60,000 PSI NORMALWEIGHT CONCRETE, fc (PSI)						DEVELOPMENT LENGTHS OF STANDARD HOOKS IN TENSION, Ldh (IN) FY = 60,000 PSI NORMALWEIGHT CONCRETE, fc (PSI)					
BAR SIZE	db (IN)	fc = 3,000	fc = 4,000	fc = 5,000	fc = 5,000	BAR SIZE	db (IN)	fc = 3,000	fc = 4,000	fc = 5,000	fc = 5,000	BAR SIZE	db (IN)	fc = 3,000	fc = 4,000	fc = 5,000	fc = 6,000
#3	0.375	16	14	13	12	#3	0.375	21	18	17	15	#3	0.375	9	8	7	6
#4	0.5	22	19	17	15	#4	0.5	28	25	22	20	#4	0.5	11	10	9	8
#5	0.625	27	24	21	19	#5	0.625	36	31	28	25	#5	0.625	14	12	11	10
#6	0.75	33	28	25	23	#6	0.75	43	37	33	30	#6	0.75	17	15	13	12
#7	0.875	48	42	37	34	#7	0.875	62	54	48	44	#7	0.875	20	17	15	14
#8	1.00	55	47	42	39	#8	1.00	71	62	55	50	#8	1.00	22	19	17	16
#9	1.128	62	54	48	44	#9	1.128	80	70	62	57	#9	1.128	25	22	20	18
#10	1.27	70	60	54	49	#10	1.27	90	78	70	64	#10	1.27	28	25	22	20
#11	1.41	77	67	60	55	#11	1.41	100	87	78	71	#11	1.41	31	27	24	22

- NOTES:
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 - CASE 2 APPLIES TO REINFORCEMENT THAT HAS MORE THAN 12" OF FRESH CONCRETE PLACED BELOW HORIZONTAL REINFORCEMENT. CLEAR SPACING OF BARS BEING DEVELOPED MUST BE AT LEAST 2db (DIA OF BAR) & CLEAR COVER AT LEAST db. INCREASE DEVELOPMENT LENGTH BY 1.5 IF OTHERWISE.
 - FOR EPOXY COATED REINFORCEMENT INCREASE THE LENGTH BY A FACTOR OF 1.2.



6 TENSION DEVELOPMENT LENGTH
1" = 1'-0"



- NOTES:
- THE HOOK SHALL BE LOCATED WITHIN THE CONFINED CORE OF A COLUMN OR BOUNDARY ELEMENT, WITH THE HOOK BENT INTO THE JOINT.
 - THE DEVELOPMENT LENGTH SHALL BE MULTIPLIED BY A FACTOR OF 1.2 FOR EPOXY COATED REINFORCING BARS.

DEVELOPMENT LENGTH, Ld IS THE BONDED LENGTH REQUIRED TO ACHIEVE THE DESIGN STRENGTH OF A BAR (TO PRECLUDE THE BAR FROM SLIPPING OUT OF THE CONCRETE)

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5101 SE 165TH STREET,
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S3 OF 3