GENERAL STRUCTURAL NOTES

STRUCTURAL NOTES

- THESE GENERAL NOTES SHALL APPLY UNLESS NOTED OTHERWISE ON THE PLANS AND DETAILS.
- 2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND COORDINATE ALL DETAILS AND DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH REALTHE REQUIREMENTS ON ARCHITECTURAL, MECHANICAL, ELECTRICAL AND/OR CIVIL DRAWINGS. THE ARCHITECT OR BNGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES PRIOR TO STARTING WORD
- WHERE A CONFLICT OCCURS BETWEEN THE SPECIFICATIONS, NOTES ON THE DRAWINGS, GENERAL NOTES AND SPECIFIC DETAILS, THE MORE RESTRICTIVE
- DRAWINGS, GENERAL ROLED ARE STEELING SELANDS, THE INTERNATIONAL SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2021 EDITION.
- 5. DO NOT SCALE DRAWINGS.
- 5. DO NOT SCALE DRAWINGS.
 6. THE DESIGN, ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND HAS NOT BEEN CONSIDERED BY THE STRUCTURE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ALL PERMANENT LATERAL BRACING, ROOF AND FLOOR DIAPHRAGAS AND PINISH MATERIAS. THE CONTRACTOR SHALL PROVIDE THE RECESSARY BRACING TO INSURE STABILITY PRIOR TO THE APPLICATION OF THE APPLICATION OF THE APPLICATION OF THE STRUCTURAL ENGINEER SHALL NOT INCLUDE THE INSPECTION OF THE ABOVE THESE.
- VIBRATIONAL EFFECTS OF MECHANICAL EQUIPMENT ARE ASSUMED TO BE NEGLIGIBLE TO STRUCTURAL MEMBERS. SEE MECHANICAL DRAWING FOR REQUIRED VIBRATION ISOLATORS.
- TI SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT, AND TO PROTECT TH FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PERFORMANCE OF THIS WORK.
- DIMENSIONS AND LOCATIONS OF ALL DOOR AND WINDOW OPPINIOS SHALL BE DICTATED BY THE ARCHITECTURAL DRAWINGS. FLOOR, WALL AND ROOF OPPINIOS AS REQUIRED BY OTHER TRADES SHALL BE VERIFIED FROM SHOP DRAWINGS, EQUIPMENT DATA, ETC.
- ON TIPES IDENTIFIED BY A TRADE NAME ARE INDICATIVE OF A LEVEL OF PERFORMANCE OR A GRADE OF MATERIAL. IN ALL SUCH CASES, THE PHRASE "OR APPROVED EQUAL" SHALL APPLY.
- BACKFILL SHALL NOT BE PLACED AGAINST WALLS BEFORE FLOORS OR FRAMING SUPPORTING THE WALLS AT THE BOTTOM AND TOP ARE SECURELY IN PLACE EXCEPT AS SPECIFICALLY STATED IN WRITING BY THE STRUCTURAL ENGINEER.
- 12. PIPES, CONDUIT, DUCTS, ETC., SHALL NOT BE EMBEDDED INSIDE STRUCTURAL MEMBERS UNLESS SHOWN ON THE DRAWINGS OR PERMITTED IN WRITING BY THE

CODES AND SPECIFICATIONS

- AISC STEEL CONSTRUCTION MANUAL, 14TH EDITION
 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC).
- 3. ASCE 7-10. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
- AISC, "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- 5. AISC, "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES"
- 7. ASTM STANDARDS FOR THE MATERIALS LISTED.
- AWS STRUCTURAL WELDING CODES AWS D1.1-2010
 SSPC MANUALS OF (1) GOOD PAINTING PRACTICE AND (2) SYSTEMS AND SPECIFICATIONS.
- 10 OSHA STANDARDS
- 11. STEEL JOIST INSTITUTE RECOMMENDED PRACTICE FOR STEEL JOISTS (FOR STEEL
- 12. ACI 318/2021 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 304, "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE".
- 14. ACI 301-10 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
- ACI 305, "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING".

 TIME 402-13/602-13 BUILDING CODE REQUIREMENTS AND SPECIFICATIONS FOR MASONRY STRUCTURES, 2021
- 17. NORTH AMERICAN SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRICTLINAL MEMBERS, 2021
- 18. ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"
- 19. ACI 315. "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".

DESIGN CRITERIA

SDS = 0.051 G; SDI = 0.038 G

1. KISK CATEGORY
2. LOAD CRITERIA:
2.1.DEAD LOADS
2.2.LIVE LOADS
2.3.ROOF LOADS
2.3.1. LIVE
2.3.1.1. ROOF
2.3.1.2. MECHANICAL
2.4.SNOW LOAD
2.4.1. SNOW LOAD 0 PSF
2.5. WIND LOAD: (ASCE 7-10/ 2015 IBC)
BASIC DESIGN WIND VELOCITY
OCCUPANCY CLASSIFICATION
EXPOSURE CATEGORY B
INTERNAL PRESSURE COEFFICIENT (GCPI)
DESIGN WIND PRESSURE
2.6.SEISMIC LOADS
RISK CATEGORY III
IMPORTANCE FACOTE (IE)
SEISMIC SITE CLASS

CONCRETE

1 ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AS FOLLOWS

USAGE	COMPREHENSIVE STRENGTH	WATER/CEMENT RATIO (MAX.)
SLAB-ON GRADE, GRADE BEAMS/FOOTINGS	3,000 PSI	0.48

- SHOP DRAWINGS SHALL BE PREPARED FOR ALL STRUCTURAL ITEMS AND
 SUBMITTED FOR REVIEW BY THE DESINEER. CONTRACT DRAWINGS SHALL NOT
 BE REPRODUCED AND LISED AS SHOP DRAWINGS. ALL ITEMS DEVIATING FROM
 THE CONTRACT DRAWINGS OR FROM PREVIOUSLY SUBMITTED SHOP DRAWINGS
 SHALL BE CLOUDED.
- THE CONTRACTOR SHALL REVIEW SHOP DRAWINGS FOR COMPLIANCE WITH THE CONTRACT DOCUMENTS AND SHALL CERTIFY THAT HE HAS DONE SO BY A STAMP NOTING THAT THE DRAWINGS HAVE BEEN 'APPOVED' AND WHICH BEARS THE SIGNATURE (OR INTIALS) OF AN AUTHORIZED REPRESENTATIVE OF THE CONTRACTOR AND THE DATE.
- CONTRACTOR AND THE DATE.

 CORRECTIONS OR COMMENTS ON SHOP DRAWINGS OR MANUFACTURER'S DATA
 SHEETS DO NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH
 REQUIREMENTS OF THE PLANS AND SPECIFICATIONS. THE ENGINEERS REVIEW IS
 FOR GENERAL CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT
 DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND
 DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND
 CORRECTING ALL QUANTITIES AND DIMENSIONS. SELECTING FABRICATION
 PROCESSES AND TECHNIQUES OF CONSTRUCTION AND COORDINATING HIS WORK
 WITH THAT OF ALL OTHER CONTRACTORS.
- REFER TO INDIVIDUAL SECTIONS FOR SPECIFIC SUBMITTAL REQUIREMENTS.

SOILS AND FOUNDATION

- ALL PERMETER BEAMS AND SLAB SHALL EXTEND THROUGH FILL AND INTO UNDISTURBED NATURAL SOILS.
 LOCATE THE BOTTOM OF ALL EXTERIOR FOOTINGS A MINIMUM OF 24" INTO
- 3. LOCATE THE BOTTOM OF ALL INTERIOR FOOTINGS A MINIMUM OF 24" BELOW TOP OF FINISH CONCRETE SLAB UNLESS OTHERWISE NOTED
- 4. ALL COMPACTED FILL SHALL HAVE A MINIMUM DESITY OF 95% OF THE
 MAXIMUM OBTAINABLE IN ACCORDANCE WITH TEX-113-E OR IN ACCORDANCE
 WITH THE SOILS REPORT.

 5. THE FOUNDATION DESIGN IS BASED UPON A REPORT BY:

PROJECT 22174

6.1.BUILDING SLAB

REMOVE A MINIMUM OF FAT CLAYS (STRATUM I) AND REPLACE WITH COMPACTED SELECT FILL TO THE DESIRED FINAL GRADE ELEVATION. FOLLOW SELECT FILL AND COMPACTION REQUIREMENTS OUTLINE IN THE GEOTECHNICAL DESIGNAT

ALLOWABLE BEARING PRESSURE: 3,000 PSF (2FT)

SUBGRADE PREPARATION

I STRUCTURAL FILL MATERIAL SHALL MEET ONE OF THE FOLLOWING
REQUIREMENTS AS VERIFIED BY GEOTECHNICAL ENGINEER WHEN PROPERLY
SLAKED AND TESTED BY STANDARD LABORATORY METHODS:

PERCENT FINER ON 2-1/2" SCREEN		1
PERCENT FINER ON 1-1/2" SCREEN	75%-	10
PERCENT FINER ON 7/8" SCREEN	45%-	8
PERCENT FINER ON NO. 4 SCREEN	25%-	5
DERCENT FINER ON NO. 40 SCREEN	10%	4

- 2. PRIOR TO PLACING FILL MATERIAL, REMOVE ALL ORGANIC AND OTHER DELETERIOUS MATERIAL FROM THE EVISTING SUB GRADE FOR A DISTANCE OF 3-O BEYOND BUILDING LINE. ALL EPOSED SURFACES SHALL THEN BE SCARFIED TO A DEPTH OF 6 INCHES. WATERED AS REQUIRED AND RE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DEFINED BY ASTA D 6938 (STANDARD PROCTOR TEST) AT A MOISTURE CONTENT WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
- STRUCTURAL FILL SHALL BE PLACED IN 8 INCH LOOSE LIFTS. WATERED PER PLAI AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DEFINED IN TEX-113-E AT A MOISTURE CONTENT WITHIN 3 PERCENT OF THE OPTIMUM MOISTURE CONTENT.
- OPTIMUM MUSTURE CONTENT.

 COMPACTION AND MOSTURE CONTENT OF SUB GRADE AND EACH LIFT OF

 STRUCTURAL FILL SHALL BE INSPECTED AND APPROVED BY A QUALIFIED

 ENGINEERING TECHNICIAN, SUPERVISED BY A GEOTECHNICAL ENGINEER.
- STRUCTURAL FILL SHALL NOT BE PLACED BEYOND THE LIMITS OF THE EXTERIOR BUILDING STRUCTURE. PROVIDE A 10 MIL POLYETHYLENE VAPOR BARRIER. PLACE VAPOR BARRIER IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION OF TOP OF STRUCTURAL FILL.
- 7. SUBGRADE PREPARATION SHALL BE INSPECTED AND APPROVED BY A GEOTECHNICAL ENGINEER.

SLAB ON GROUND

- SOIL SUPPORT SYSTEM: THE SOIL SUPPORT SYSTEM SHOULD BE WELL DRAINED
 AND PROVIDE ADEQUATE AND UNIFORM LOAD-BEARING SUPPORT.
- 2. BASE MATERIAL: THE MATERIAL SHOULD BE A COMPATIBLE, EASY-TO-TRIM.
 GRANULAR FILL THAT WILL REMAIN STABLE AND SUPPORT CONSTRUCTION GRANDERS FILE THAT WILL REMINIS TABLE AND SUPPORT COST RICE (TON)
 TRAFFIC, A CLEAN, FINE-GRADED MATERIAL WITH AT LEAST 10 PERCENT TO 30
 PERCENT OF PARTICLES PASSING A NO:100 SIEVE BUT NOT CONTAMINATED
 WITH CLAY, SILT, ORGANIC MATERIAL IS RECOMMENDED.
- 3. VAPOR BARRIER: IF A VAPOR BARRIER OR VAPOR RETARDER IS REQUIRED DUE MINIMAN OF 4 OF INMINIMANEL, COMPACTIBLE, STARRULANT FILL (FOT JAMES), A USUALLY GRADED FROM 1127 TO 2 DOWN TO ROCK DUST, IS SUITABLE FOLLOWING COMPACTION. THE SURFACE CAN BE CHOCKED OFF WITH A FINE GRADED MATERIAL. TO REDUCE FRICTION BETWEEN THE BASE MATERIAL. AND THE SLAB. THE RECOMMENDED POLYETHYLENE FILM A THICKNESS OF LOT LESS THAN 10 AMIS BE USED.

SLAB ON GROUND (CONT.)

- SAW-CUT JOINTS: THE RECOMMENDED SAW CUTTING SHOULD BE PERFORMED:
 (I) BEFORE CONCRETE STARTS TO CURE (II) AS SOON AS THE CONCRETE
 SURFACE IS FIRM ENDUGHT OB ETORN OR DANAGED BY THE BLADE, AND (III)
 BEFORE RANDOM DRYING SHRINKAGE CRACKS FAN FORM IN THE CONCRETE
 SLAB. IF SAWING IS UNDULY DELAYED. THE CONCRETE CAN CRACK RANDOMY. BEFORE IT IS SAWED. ADDITIONALLY, DELAY CAN GENERATE CRACKS TH RUN OFF FROM THE SAW BLADE TOWARD THE EDGE OF THE SLAB AT AN

- CONCRETE

 1. CEMENT SHALL CONFORM TO ASTM C150, TYPE V. WATER TO CEMENT RATIO SHALL NOT EXCEED 0.45 UNLESS NOTED OTHERWISE.

 2. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS IN ACCORDANCE WITH IBEC. THE MIX DESIGNS SHALL BE SIGNED AND STAMPED BY A CIVIL ENGINEER REGISTREED IN TEXAS.

 3. HARDROCK AGGREGATE SHALL CONFORM TO ASTM C33.

 4. APPROXIMATE AIR-DRY DENSITY FOR HARDROCK CONCRETE SHALL BE 145 PCF.

 5. LIGHTWEIGHT CONCRETE AGGREGATE SHALL CONFORM TO ASTM C33.

 6. APPROXIMATE AIR-DRY DENSITY FOR LIGHTWEIGHT CONCRETE SHALL NOT
- EXCEED 110 PCF. 7. ALL CONCRETE OF COMPRESSIVE STRENGTH GREATER THAN 2500 PSI SHALL HAVE CONTINUOUS INSPECTION BY A REGISTERED DEPUTY INSPECTOR APPROVED BY
- THE BUILDING DEPARTMENT.
 8. STRIPPING OF FORMS AND SHORING SHALL BE IN STRICT ACCORDANCE WITH A. STRIPPING OF FORMS AND SHORING SHALL BE IN STRICT ACCORDANCE WITH 9. REPERT O MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF ALL PIPES, COMDUITS, ETC.

CONCRETE REINFORCEMENT

- CONCRETE REINFORCEMENT

 1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. REINFORCING TO BE WELDED SHALL BE ASTM A706, GRADE 60.

 2. LOW HYDROCISH WELDING RODS SHALL BE USED FOR ALL WELDING OF REINFORCING BASS.

 3. CONTINUOUS REINFORCING SHALL BE SPLICED WITH 30 BAR DIAMETERS MINIMAM (ROPRESSION) IN CONCRETE AND MASONRY MAN 48 BAR DIAMETERS MINIMAM (TENSION) IN CONCRETE AND MASONRY MAN 48 BAR DIAMETERS MINIMAM (TENSION) IN CONCRETE AND MASONRY WILLES NOTED OTHERWISE.

 4. REINFORCING BARS SHALL NOT BE REBENT WITHOUT PRIOR WRITTEN APPROVAL OF STRUCTURAL ENGINEER.

 5. REINFORCING SHALL BE SPLICED ONLY AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER.

 6. SPLICES IN ADJACENT HORIZIONTAL WALL REINFORCING BASS SHALL BE STAGGRED 4-07 MINIMAM MALESS OTHERWISE NOTED. PROVIDE DOWELS IN TOOTINGS AMON'C RIGIDED EMBAST HEE SAME SIZE AND NUMBER AS VERTICAL WALL OR COLLIMN REINFORCING. DOWELS SHALL HAVE A MINIMAM PROJECTION EQUAL TO STANDARD LAS PLICE UNLESS OTHERWISE NOTTED. RESETTS SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR ROUTING MASONRY.

 8. WELDED WIRE FABRIC SHALL COMPONITO SAS SPECIFIED IN ACI 318

 9.1.LATEST EDITION.

 9.1.LATEST EDITION.

 9.1.LATEST EDITION.

- 9.1.1. CONCRETE CAST AGAINST AND

NENTLY EXPOSED TO EARTH .. 9.1.2. CONCRETE EXPOSED TO EARTH OR WEATHER:

- NO. 5 BAR, W31 OR D31 WIRE AND SMALLER 1 1/2" 9.0.1. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
- SLAB, WALL, JOISTS: NO. 14 AND NO. 18 BAR ...
- NO. 11 BAR AND SMALLER

BEAMS, COLUMNS:

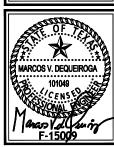
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS ... 1 1/2"

SHELLS, FOLDED PLATE MEMBERS:

- NO. 6 BAR AND LARGER NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER 1/2"
- 10. BARS WITH A CARBON EQUIVALENT ABOVE 0.75 SHALL NOT BE WELDED.
 WELDING SHALL NOT BE DONE ON OR WITHIN TWO BAR DIAMETERS OF ANY PORTION
 OF A BAR THAT HAS BEEN BENT COLD.



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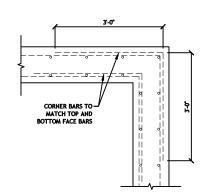


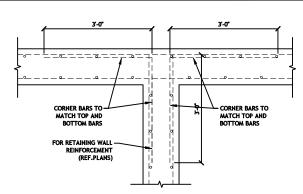
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PROJECT: 22174 DATE: 08-03-22 DRAWN BY: FJ

AS NOTED

SO.0





CORNER BAR DETAIL 1

BAR @ INTERIOR INTERSECTION DETAIL

BAR SIZE	CONC F'C = 3000 OR GREATER	CONC F'C = 4000 OR GREATER	CONC FC = 6000 OR GREATER
#3	0'-6"	0'-6"	0'-6"
#4	0'-8"	0'-7"	0'-6"
#5	0'-10"	0'-9"	0'-8"
#6	0'-1"	0'-10"	0'-9"
#7	1'-2"	1'-0"	0'-11"
#8	1'-4"	1'-2"	1"-0"
#9	1'-6"	1'-3"	1'-2"
#10	1'-8"	1'-5"	1'-4"
#11	1'-10"	1'-7"	1'-5"
#14	2'-0"	2'-9"	2'-5"
#18	2'-2"	3'-7"	3'-3"

		LAP SPLICE LENGTH (GRADE 60 STEEL)					
-	BAR SIZE	LAP LENGTH (TOP BARS)	LAP LENGTH (OTHER BARS)	LAP LENGTH (TOP BARS)	LAP LENGTH (OTHER BARS)	LAP LENGTH (TOP BARS)	LAP LENGTH (OTHER BARS)
-	#3	2'-7"	2'-0"	2'-3"	1'-9"	2'-1"	1'-8"
4	#4	3'-4"	2'-7"	2"-11"	2'-4"	2'-8"	2'-1"
\dashv	#5	4'-1"	3'-3"	3'-7"	2'-10"	3'-3"	2'-7"
-	#6	4'-11"	3'-10"	4'-3"	3'-4"	3'-10"	3'-0"
-	#7	7'-0"	5'-5"	6'-1"	4'-9"	5'-6"	4'-3"
+	#8	8'-0"	6'-2"	6'-11"	5'-5"	6'-3"	4'-10"
-	#9	8"-11"	6'-11"	7'-9"	6'-1"	7'-0"	5'-5"
-	#10	10'-1"	7'-9"	8'-9"	6'-9"	7-10"	6'-1"
-	#11	11'-3"	8'-7"	9'-8"	7'-6"	8'-8"	6'-9"
4	#14	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS
4	#18	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS	MECH. COUPLERS

SEE DETAILS & THRU B FOR TYPICAL SEE DETAILS A THIND BYOR TYPICAL
BAR SPLICE CONDITIONS.
ALL COLUMN BAR SPLICES ARE TO BE IN
ACCORDANCE WITH "SPLICE SCHEDULE
T' UNLESS NOTED OTHERWISE.
LAP SPLICE LENGTHS ARE TO BE
CALCULATED BASED ON THE SMALLER
BAR BEING LABBER.

BAR SPLICING NOTES:

VERT. BARS

#5

#6

#7

#8

#9

#10

#11

#14

#18

1'-11"

2'-9"

3'-3"

3'-9"

4'-3"

4'-9"

5'-3"

MECH. COUPLERS

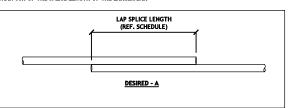
BAR BEING LAPPED.
ALL COLUMN BAR SPLICES IN COLUMNS ALL COLUMN BAR SPLICES IN COLUMNS WHERE THE AREA OF REINFORCING DIVIDED BY THE AREA OF THE COLUMN CROSS SECTION IS GREATER THAN 0.04 (4%) SHALL BE MECHANICAL SPLICES SINCE THE CODE DOES NOT ALLOW

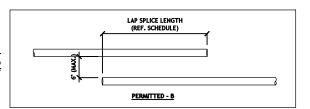
SINCE THE CODE DOES NOT ALLOW MORE THAN 8%

SPLICE ALL COLUMN BARS AT EACH FLOOR/COLUMN INTERSECTION. DO NOT SPLICE COLUMN BARS BETWEEN FLOOR/COLUMN INTERSECTIONS EVEN IF THE COLUMN SPANS ACROSS MORE THAN MORE LEVEL WITHOUT ACTUALLY INTERSECTING WITH THE SLOOP EDUANCE.

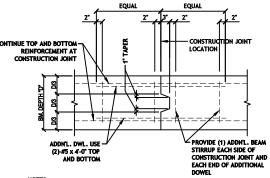
FLOOR FRAMING WHERE VERTICAL BARS ARE OFFSET AT WHERE VERTICAL BARS ARE OFFSET AT A SPLICE, THE SLOPE OF THE INCLINED POTION OF THE BAR WITH THE AXIS OF THE COLUMN SHALL NOT EXCEED 1:6, AND 3 ADDITIONAL TIES SHALL BE ADDED TO THE TOP OF THE COLUMN CENTERED ON THE BEND. OFFSET LAPPED BARS IN A PLANE

1. TOP BARS ARE DEFINED AS HORIZONTAL BARS LOCATED MORE THAN 12" ABOVE THE BOTTOM OF A POUR 2. LAP SPLICES OF DIFFERENT BAR SIZES MA USE THE SPLICE LENGTH OF THE SMALLER BAR, BUT NOT LESS THAN 80X OF THE SPLICE LENGTH OF THE LARGER BAR





REBAR SPLICE SCHEDULE 6



NOTES: INTERRUPTED BARS AT OPENING WOULD BE TOP AND/OR BOTTOM BARS IN SLABS OR VERTICAL AND/O

HORIZONTAL BARS IN WALLS (NOT SHOWN FOR CLARITY)

GRADE BEAM

TYPICAL DETAIL

REINF. AT SLAB OPENINGS

- NOTES:

 1. GENERAL CONTRACTOR SHALL SUBMIT DESIRED CONSTRUCTION JOINT LAYOUT AS A SHOP DRAWING FOR APPROVAL A MINIMUM OF TWO WEEKS PRIOR TO POUR.

 2. CONSTRUCTION JOINT LOCATIONS SHALL BE COORDINATED WITH REINFORCING STEEL SUPPLIER AND ENECTOR.

 3. JOINT LOCATIONS SHALL BE WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.

 4. FOR JOINT LOCATIONS SHALL BE WITHIN TWO FEET EITHER SIDE OF BEAM MIDSPAN.

 MIDSPAN, CONTRACTOR SHALL COORDINATE REQUIRED ADDITIONAL BEDIENDRY SUPPLY WITH JUST EXCEPTION AND MANUACE.

CONSTRUCTION JOINT

SCHEDULED SLAB REINF. CONTINUOUS THRU JOINT-SEE PLAN FOR REINF. VERT. CONSTRUCTION JOIN _____ TYPICAL DETAIL CONSTRUCTION JOINT - SLAB

SAW CONTROL JOINT NOTES:

1. MAKE SAW CUT AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND SAWING EQUIPMENT WITHOUT DAMAGE TO FINISH SURFACE OF SLAB.

JOINT FILLER MATERIAL NOTES:

#4 @ 12" O.C. x 2'-6" -

- JOINT FILLER MATERIAL NOTES:

 1. FILLER MATERIAL ISOES SHALL HAVE A MINIMUM SHORE HARDNESS OF 35, AND SHALL CONFORM TO ASTM D2240. JOINT FILLER SHALL BE APPROVED BY ENGINEER PRIOR TO APPLICATION. APPROVED JOINT FILLER IS YULKEM 243 SA MANUFACTURED BY MAMACEO, INTERNATIONAL OR APPROVED EQUAL.

 2. WHERE POSSIBLE, FILLER MATERIAL SHALL BE APPLIED WHEN BUILDING IS UNDER REMAMENT TEMPERATURE CONTROL. THIS SHALL BE ETHER AT THE END OF CONSTRUCTION OF THE COMPLETE BUILDING SHELL, OR A MINIMUM OR 90 DAYS AFTER SLAG CONSTRUCTION.

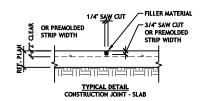
 3. FOLLOW STRICTLY THE MANUFACTURERS RECOMMENDED PROCEDURES FOR APPLYING THE JOINT FILLER.

 NOTES:

- ON THE MIDDLE THIRD OF THE SLAB SPAN.

 CONCRETE SURFACE AT CONSTRUCTION JOINT SHALL BE CLEAN AND FREE OF LATTANCE.

CONSTRUCTION JOINT



- FORMED CONTROL JOINT NOTES:

 1. FORM CONTROL JOINTS BY INSERTING PREMOLDED STRIP INTO FRESH
- CONCRETE UNTIL TOP SURFACE OF STRIP IS FLUSH WITH SLAB SURFACE.
 TOOL SLAB EDGES ROUND ON EACH SIDE OF INSERT.
 AFTER CONCRETE HAS CURED, REMOVE INSERTS AND CLEAN GROOVE OF LOOSE DEBRIS.

- DOWEL NOTES:

 1. ALL DOWELS SHALL CONFORM TO ASTM A615.

 2. DOWELS SHALL BE CAREFULLY ALIGNED AND SUPPORTED DURING CONCRETING OPERATIONS.

SLAB CONSTRUCTION JOINT

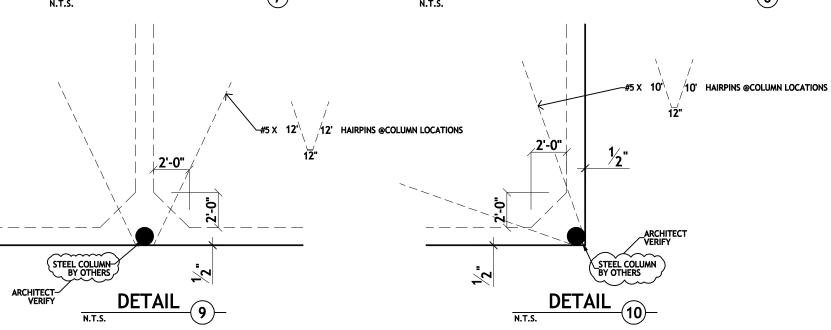
G.C. SHALL COORDINATE SLEEVE SIZE AND LOCATIONS WITH RELATED TRADES & INDICATE EXACT DIMENSIONAL LOCATION ON REINF. STEEL SHOP DWGS. IN COMPLIANCE WITH SPECS.

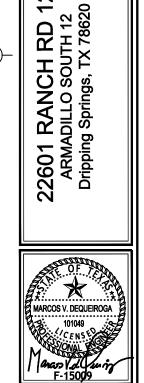
1/4"X3" CONT. FLANGE PLATE -CONT. WELDED TO STEEL PIPE SLEEVE FOR FOUNDATION RADE BEAM OR SLAB SEE TYP. DETAIL OF REINF PROVIDE MIN. SCHED. 40 STD,-STEEL PIPE SLEEVE. SIZE OR SLEEVE TO ACCOMMODATE SEAL REQS. BETWEEN PIPE AND SLEEVE - SEE RELATED TRADE MOTES: G.C., SHALL COORDINATE SLEEVE

#5 X 4'-0" BAR DIAG, EA, FACE

NOTES: ADDITIONAL REINF. AS SHOWN REQD AT OPENING 12" SQUARE OR 12" IN DIAMETER OR LARGER

TYPICAL DETAIL - PIPE/CONDUIT SLEEVE THRU FOUNDATION GRADE BEAM OR SLAB





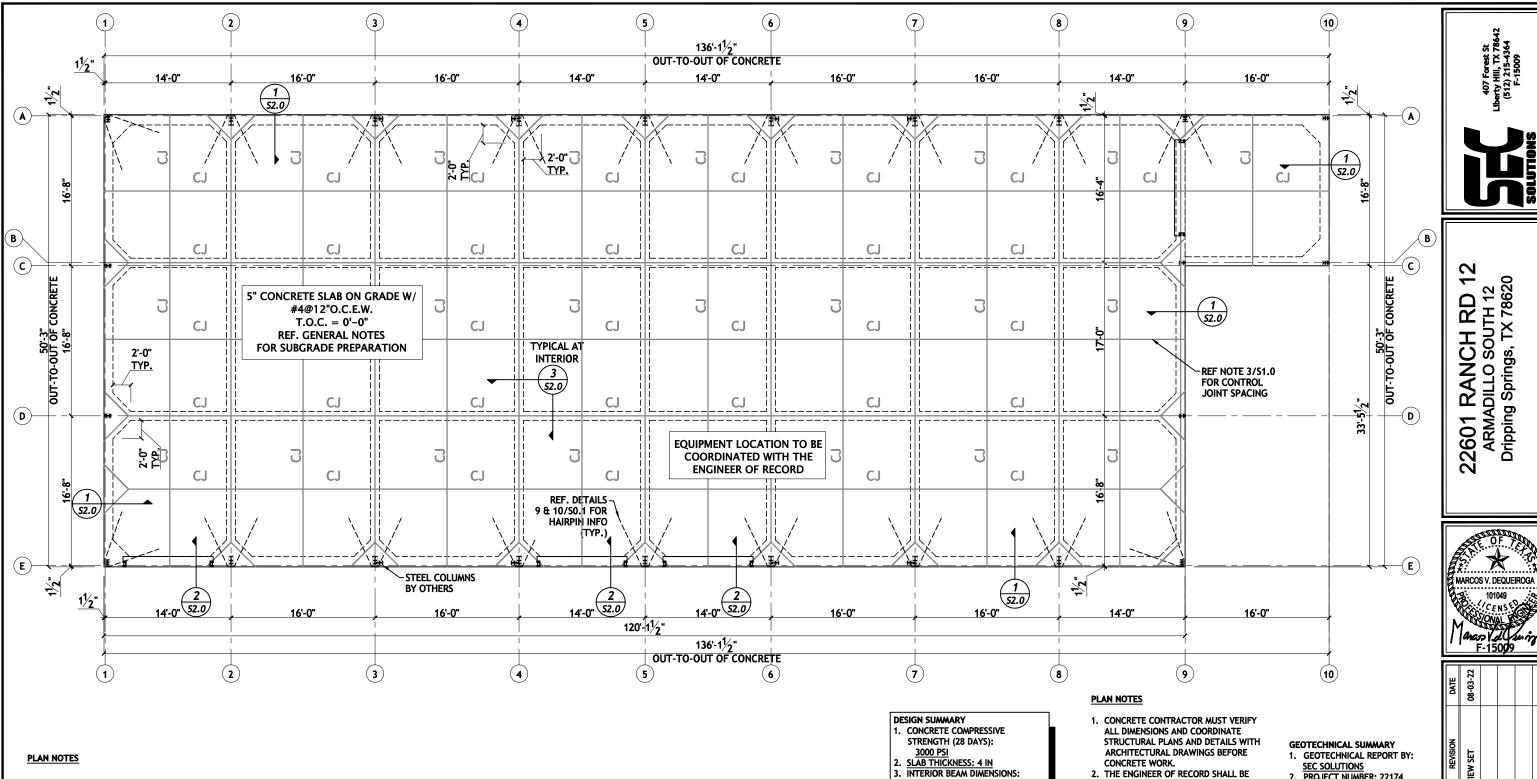
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PROJECT:	22174
DATE:	08-03-22
DRAWN BY:	FJ

AS NOTED

S.01



- 1. FIRST FLOOR TOP OF SLAB ELEVATION 0'-0" (DATUM) UNLESS OTHERWISE NOTED. (REF. CIVIL PLANS FOR FINAL M.S.L.E.)
- ALL ELEVATIONS SHOWN THUS ARE TO THE <u>TOP</u> OF CONC. ABOVE OR BELOW THE DATUM ELEVATION.
- CONSTRUCTION/CONTROL JOINT SPACING IN SLAB-ON-GRADE SHALL NOT EXCEED 15'-0" IN ANY DIRECTION. LAYOUT SHOWN ON PLAN IS DIAGRAMMATIC AND A FINAL JOINT LAYOUT PLAN SHALL BE COORDINATED WITH THE ARCHITECT (REF. TYPICAL DETAILS 4 & 5/50.1)
- ALL COLUMNS ARE CENTERED ON COLUMN CENTERLINES UNLESS OTHERWISE NOTED.
- SEE DRAWING SO.O-SO.1 FOR GENERAL NOTES AND ADDITIONAL CONSTRUCTION CRITERIA.
- CONTROL SURFACE OR SUB-SURFACE WATER TO ALLOW FOUNDATION WORK TO BE PERFORMED/DONE IN DRY UNDISTURBED CONDITIONS.
- PIPE SLEEVES FOR UTILITIES ARE TO BE TWO PIPE SIZES LARGER THAN THE PIPE SHOWN ON THE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS, VERIFY AND COORDINATE WITH THE INDIVIDUAL TRADE CONTRACTOR AS REQUIRED. COORDINATE WITH MEP DRAWINGS FOR REQUIRED LOCATIONS AND INVERT ELEVATIONS.
- 8. STAKEOUT/LOCATE THE BUILDING REFERENCING THE CIVIL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- COORDINATE ALL DIMENSIONS WITH THE ARCHITECTURAL PLANS AND THE SPECIFIC CONTROL PLAN PREPARED FOR EACH LEVEL AND/OR REFER TO THE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DIMENSIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS, NOTIFY THE ARCHITECT/ENGINEER OF ANY DIMENSIONAL DISCREPANCIES.
- 10. ACI 301-05 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS AND ACI-318-08 BUILDING CODE REQUREMENTS FOR STRUCTURAL

- EXTERIOR BEAM DIMENSIONS:
- DEPTH: 30" (MIN.)(PLAN NOTE 4)
- NOTIFIED OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- 3. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB DROPS & ACCESSIBILITY REQUIREMENTS
- 4. PERIMETER BEAM TO PENETRATE A
 MINIMUM OF 24" INTO NATURAL

PRE-POUR INSPECTION BY SEC REPRESENTATIVE IS REQUIRED.

TO SCHEDULE CONTACT OFFICE@SECTEXAS.COM OR CALL 512-215-4364

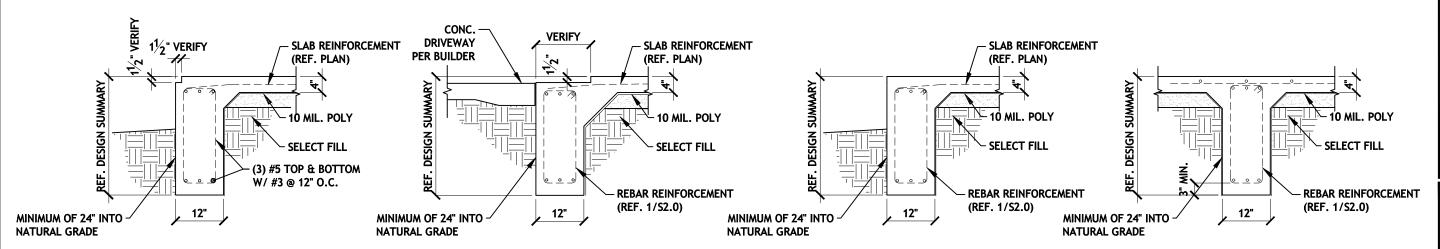
- 3. DESIGN PVR: 18
- 4. ALLOWABLE BEARING CAPACITY: 3,000 PSF (2FT)

22174 DATE: 08-03-22 DRAWN BY: FJ

AS NOTED

REBAR FOUNDATION PLAN

SCALE: 3/32"=1'-0" SLAB AREA: 6,305 SF **S1.0**

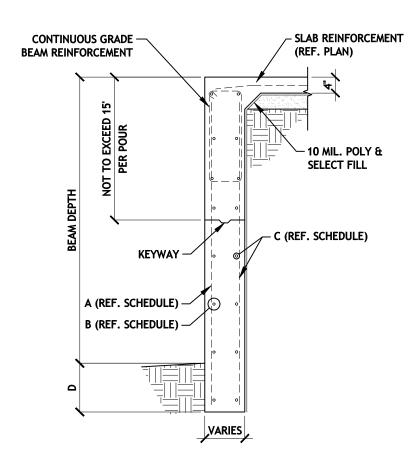


TYPICAL EXTERIOR BEAM SCALE: NTS

EXTERIOR BEAM 2

EXTERIOR BEAM 3

TYPICAL INTERIOR BEAM SCALE: NTS



DEEP BEAM REINFORCEMENT SCHEDULE					
BEAM DEPTH	A VERT. (OUTSIDE MAT)	B HORZ. (OUTSIDE MAT)	C (INSIDE MAT)	BEAM WIDTH	D
4'-0" TO 6'-0"	NONE*	NONE*	NONE*	10"	6" ROCK 12" SOIL
6'-1" TO 9'-0"	#4 @ 16" O.C.	#4 @ 16" O.C.	NONE	12"	6" ROCK 12" SOIL
9'-1" TO 12'-0"	#4 @ 12" O.C.	#4 @ 9" O.C.	NONE	12"	6" ROCK 18" SOIL
12'-1" TO 15'-0"	#4 @ 10" O.C.	#4 @ 10" O.C.	#4 @ 12" O.C. E.W.	12"	6" ROCK 24" SOIL
15'-1" TO 18'-0" TWO POUR	#5 @ 10" O.C.	#4 @ 12" O.C.	#4 @ 12" O.C. E.W.	14"	12" ROCK 30" SOIL
18'-1" TO 21'-0" TWO POUR	#6 @ 10" O.C. *2" CLR	#4 @ 9" O.C.	#4 @ 9" O.C. E.W.	16"	18" ROCK 36" SOIL
21'-1" TO 25'-0" TWO POUR	#6 @ 7" O.C. *2" CLR	#4 @ 9" O.C.	#4 @ 9" O.C. E.W.	18"	18" ROCK 36" SOIL
25'-1" TO 28'-0" TWO POUR	#6 @ 6" O.C. *2" CLR	#4 @ 9" O.C.	#4 @ 9" O.C. E.W.	20"	24" ROCK 48" SOIL

*PROVIDE CONTINUOUS GRADE BEAM REINFORCEMENT

DEEPENED BEAM SECTION



407 Forest St Liberty Hill, TX 78642 (512) 215-4364 F-15009

22601 RANCH RD 12 ARMADILLO SOUTH 12 Dripping Springs, TX 78620



DATE	08-03-22		
REVISION	REVIEW SET		
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PROJECT:	22174
DATE:	08-03-22
DRAWN BY:	FJ

SCALE: AS NOTED

S2.0