GRADE BEAM SCHEDULE

MARK	GRADE BEAM WIDTH	GRADE BEAM DEPTH	TOP REINFORCEMENT	MIDDLE REINFORCEMENT	BOTTOM REINFORCEMENT	STIRRUPS
GB-A	18"	24"	3 - #6 BARS	N/A	3 - #6 BARS	#3 @ 24" O.C.

SPREAD FOOTING SCHEDULE

MARK	FOOTING WIDTH	FOOTING LENGTH	FOOTING THICKNESS	TOP REINFORCEMENT	BOTTOM REINFORCEMENT
F3x3	3'-0"	3'-0"	24"	#5 BARS @ 8" O.C. E.W.	#5 BARS @ 8" O.C. E.W.
F4.5x4.5	4'-6"	4'-6"	24"	#5 BARS @ 8" O.C. E.W.	#5 BARS @ 8" O.C. E.W.
F5x5	5'-0"	5'-0"	24"	#5 BARS @ 8" O.C. E.W.	#5 BARS @ 8" O.C. E.W.

PRE-ENGINEERED METAL BUILDING COLUMN SCHEDULE

MARK	COLUMN DESCRIPTION	SHAPE	PROFILE	MAX FLANGE WIDTH	MAX WEB DEPTH	BASE CONNECTION	TOP CONNECTION	REMARKS
RFC	RIGID FRAME COLUMN	I	TAPERED	RE: ARCH	RE: ARCH	PINNED	FIXED	
ISC	INTERIOR SUPPORT COLUMN	I	STRAIGHT	RE: ARCH	RE: ARCH	PINNED	PINNED	
PFC	PORTAL FRAME COLUMN	I	STRAIGHT	RE: ARCH	RE: ARCH	PINNED	FIXED	

FOUNDATION NOTES:

SLAB A: 5" THICK SLAB OVER 15 MIL VAPOR BARRIER ON A 4" WASHED GRAVEL BASE. ALL VAPOR BARRIER JOINTS SHALL BE TAPED AND SEALED. REINFORCE SLAB WITH 4 X 4 X W4.0 x W4.0 WWF SUPPORTED BY #4 BARS @ 48" O.C. E.W.. WWF TO BE PLACED AT 2" CLEAR FROM TOP OF SLAB.

SLAB B: 6" THICK SLAB OVER 15 MIL VAPOR BARRIER ON A 4" WASHED GRAVEL BASE. ALL VAPOR BARRIER JOINTS SHALL BE TAPED AND SEALED. REINFORCE SLAB WITH 4 X 4 X W4.0 x W4.0 WWF SUPPORTED BY #5 BARS @ 18" O.C. E.W.. CENTERED IN SLAB.

REFER TO ARCHITECTURAL PLANS FOR ALL FORM SETTING DIMENSIONS.

VERIFY ALL DROPS, OFFSETS, AND LEDGES WITH THE ARCHITECTURAL PLANS.

ALL STRUCTURAL FILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN A MAXIMUM OF 8" LIFTS.

TOTAL SLAB AREA = 7,083.4 SF

REFER TO S2.1 FOR ALL FOUNDATION DETAILS AND SCHEDULES

NOTE [AA]: (3) #4 BARS 6'-0" LONG @ 6" O.C. TYPICAL RE-ENTRANT CORNER REINFORCEMENT.

METAL BUILDING NOTES:

COLUMN FOOTINGS AND ANCHORAGE DESIGN IS BASED OFF OF PRELIMINARY REACTIONS DETERMINED BY THE POR. THE GENERAL CONTRACTOR SHALL SUBMIT FINAL PEMB REACTIONS TO SOUTHEAST ENGINEERS FOR APPROVAL AND FOR FINAL DETERMINATION OF FOOTING SIZES AND ANCHORAGE DESIGN.

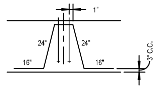
COORDINATE FORMSET DIMENSIONS, LEDGES, AND DOOR CONDITIONS WITH THE ARCHITECTURAL PLANS AND PEMB DRAWINGS PRIOR TO CONSTRUCTION.

CONTROL JOINT NOTE:

CONTROL JOINTS SHALL BE PLACED IN GREEN CONCRETE AS SOON AS SUFFICIENT CURING HAS OCCURED TO SUPPORT THE WEIGHT OF THE SAW EQUIPMENT AND OPERATOR. SAW-CUT CONTROL JOINTS SHALL BE MADE TO A DEPTH OF 25% OF THE SLAB THICKNESS AND SPACED AT A MAXIMUM OF 12'-6" ON CENTER EACH WAY WITH A MAXIMUM L/W PANEL RATIO OF 1.5:1.

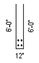
NOTE [AR-A]:

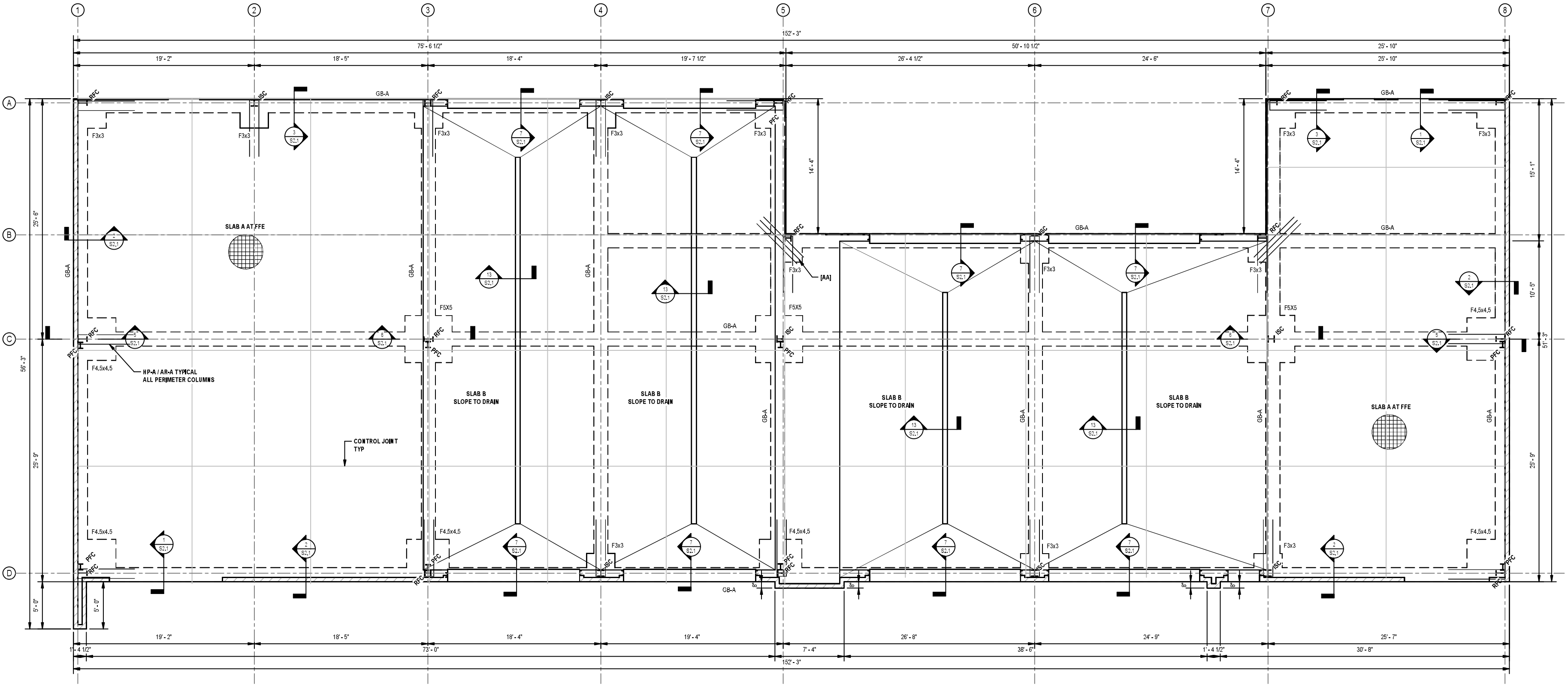
(2) #5 VERTICAL ANCHOR REINFORCING BAR. CENTER BETWEEN ANCHOR BOLT ROWS AND ORIENT PARALELL TO EXTERIOR GRADE BEAM.



NOTE [HP-A]

#5 HAIRPINS AS SHOWN BELOW. HAIRPINS MUST BE PLACED TO THE OUTSIDE EDGE OF ALL ANCHOR BOLTS 1" CLEAR FROM TOP OF SLAB.





1 FOUNDATION PLAN
3/16" = 1'-0"

SET NO. ______
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MA PROJECT NUMBER: 23009

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SOUTHEAST
ENGINEERS &
LAND SURVEYORS

FOUNDATION PLAN

S1.0

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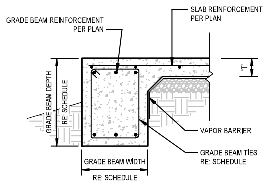
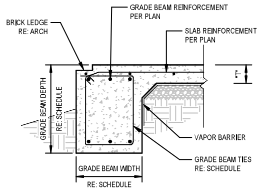
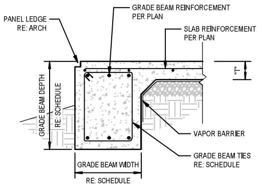

GRADE BEAM REINFORCEMENT PER PLAN
SLAB REINFORCEMENT PER PLAN
"T"
VAPOR BARRIER
GRADE BEAM TIES RE: SCHEDULE
GRADE BEAM DEPTH RE: SCHEDULE
GRADE BEAM WIDTH RE: SCHEDULE

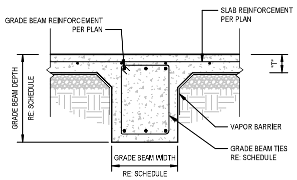
1 TYPICAL EXTERIOR GRADE BEAM
3/4" = 1'-0"


BRICK LEDGE RE: ARCH
GRADE BEAM REINFORCEMENT PER PLAN
SLAB REINFORCEMENT PER PLAN
"T"
VAPOR BARRIER
GRADE BEAM TIES RE: SCHEDULE
GRADE BEAM DEPTH RE: SCHEDULE
GRADE BEAM WIDTH RE: SCHEDULE

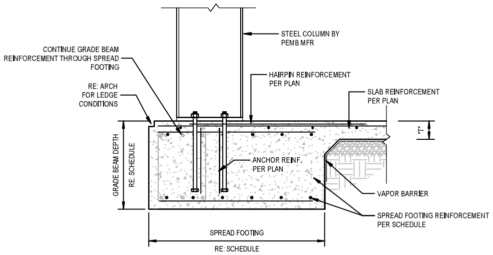
2 TYPICAL EXTERIOR GRADE BEAM AT BRICK LEDGE
3/4" = 1'-0"


PANEL LEDGE RE: ARCH
GRADE BEAM REINFORCEMENT PER PLAN
SLAB REINFORCEMENT PER PLAN
"T"
VAPOR BARRIER
GRADE BEAM TIES RE: SCHEDULE
GRADE BEAM DEPTH RE: SCHEDULE
GRADE BEAM WIDTH RE: SCHEDULE

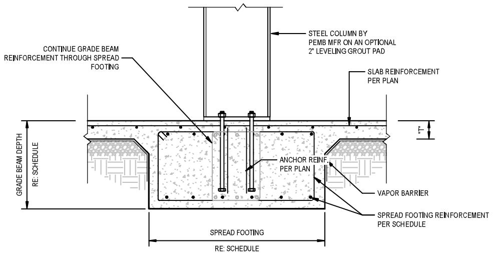
3 TYPICAL EXTERIOR GRADE BEAM AT PANEL LEDGE
3/4" = 1'-0"


GRADE BEAM REINFORCEMENT PER PLAN
SLAB REINFORCEMENT PER PLAN
"T"
VAPOR BARRIER
GRADE BEAM TIES RE: SCHEDULE
GRADE BEAM DEPTH RE: SCHEDULE
GRADE BEAM WIDTH RE: SCHEDULE

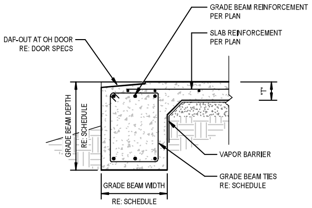
4 TYPICAL INTERIOR GRADE BEAM
3/4" = 1'-0"


STEEL COLUMN BY PEMB MFR
CONTINUE GRADE BEAM REINFORCEMENT THROUGH SPREAD FOOTING
RE: ARCH FOR LEDGE CONDITIONS
HAIRPIN REINFORCEMENT PER PLAN
SLAB REINFORCEMENT PER PLAN
"T"
ANCHOR REINF. PER PLAN
VAPOR BARRIER
SPREAD FOOTING REINFORCEMENT PER SCHEDULE
GRADE BEAM DEPTH RE: SCHEDULE
SPREAD FOOTING RE: SCHEDULE

5 EXTERIOR SPREAD FOOTING AT PEMB COLUMN
3/4" = 1'-0"


STEEL COLUMN BY PEMB MFR ON AN OPTIONAL 2" LEVELING GROUT PAD
CONTINUE GRADE BEAM REINFORCEMENT THROUGH SPREAD FOOTING
SLAB REINFORCEMENT PER PLAN
"T"
ANCHOR REINF. PER PLAN
VAPOR BARRIER
SPREAD FOOTING REINFORCEMENT PER SCHEDULE
GRADE BEAM DEPTH RE: SCHEDULE
SPREAD FOOTING RE: SCHEDULE

6 INTERIOR SPREAD FOOTING AT PEMB COLUMN
3/4" = 1'-0"


DAP-OUT AT OH DOOR RE: DOOR SPECS
GRADE BEAM REINFORCEMENT PER PLAN
SLAB REINFORCEMENT PER PLAN
"T"
VAPOR BARRIER
GRADE BEAM TIES RE: SCHEDULE
GRADE BEAM DEPTH RE: SCHEDULE
GRADE BEAM WIDTH RE: SCHEDULE

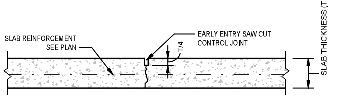
7 TYPICAL EXTERIOR GRADE BEAM AT OH DOOR
3/4" = 1'-0"

TYPICAL EARLY ENTRY SAW CUT NOTES:

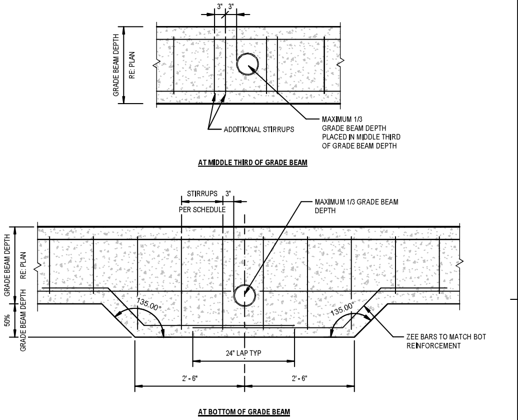
CONTROL JOINTS SHALL BE PLACED IN GREEN CONCRETE AS SOON AS SUFFICIENT CURING HAS OCCURED TO SUPPORT THE WEIGHT OF THE OPERATOR AND SAW EQUIPMENT.

SAW-CUT CONTROL JOINTS SHALL BE MADE TO A MINIMUM DEPTH OF 25% OF THE SLAB THICKNESS. SAW-CUTS SHALL BE SPACED AT 12'-0" ON CENTER MAXIMUM SPACING WITH A MAXIMUM L/W RATION OF 1.5 / 1.

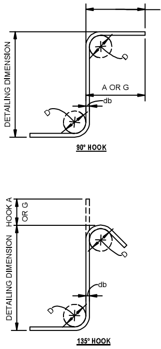
CONTRACTOR SHALL SUBMIT PROPOSED CONTROL JOINT PLAN TO THE ARCHTIECT OF RECORD FOR REVIEW AND APPROVAL.

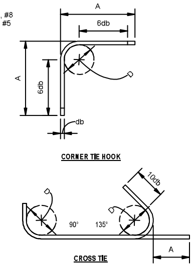

SLAB REINFORCEMENT SEE PLAN
EARLY ENTRY SAW CUT CONTROL JOINT
T/4
SLAB THICKNESS (T)

8 CONTROL JOINT DETAIL
3/4" = 1'-0"


3"
3"
GRADE BEAM DEPTH RE: PLAN
ADDITIONAL STIRRUPS
MAXIMUM 1/3 GRADE BEAM DEPTH PLACED IN MIDDLE THIRD OF GRADE BEAM DEPTH
AT MIDDLE THIRD OF GRADE BEAM
STIRRUPS PER SCHEDULE
3"
MAXIMUM 1/3 GRADE BEAM DEPTH
GRADE BEAM DEPTH RE: PLAN
50% GRADE BEAM DEPTH
135.00°
135.00°
ZEE BARS TO MATCH BOT REINFORCEMENT
24" LAP TYP
2'-6"
2'-6"
AT BOTTOM OF GRADE BEAM

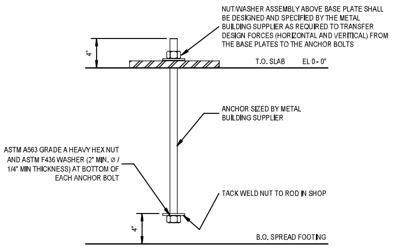
9 TYPICAL PIPE SLEEVE IN GRADE BEAM
3/4" = 1'-0"


12db FOR #6, #7, #8
6db FOR #3, #4, #5
DETAILING DIMENSION
A OR G
db
90° HOOK
DETAILING DIMENSION
HOOK A OR G
db
135° HOOK

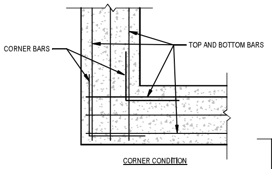

A
6db
A
6db
db
CORNER TIE HOOK
10db
90°
135°
A
CROSS TIE

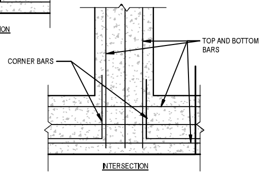
STIRRUP & TIE HOOK SCHEDULE			
BAR SIZE	D (IN)	90° HOOK A OR G (IN)	135° HOOK A OR G (IN)
#3	1 1/2	4	5
#4	2	4 1/2	6 1/2
#5	2 1/2	6	8

10 TYPICAL STIRRUPS AND TIES
3/4" = 1'-0"


NUT/WASHER ASSEMBLY ABOVE BASE PLATE SHALL BE DESIGNED AND SPECIFIED BY THE METAL BUILDING SUPPLIER AS REQUIRED TO TRANSFER DESIGN FORCES (HORIZONTAL AND VERTICAL) FROM THE BASE PLATES TO THE ANCHOR BOLTS
4"
T.O. SLAB
EL 0 - 0"
ANCHOR SIZED BY METAL BUILDING SUPPLIER
ASTM A563 GRADE A HEAVY HEX NUT AND ASTM F436 WASHER (2" MIN. Ø / 1/4" MIN THICKNESS) AT BOTTOM OF EACH ANCHOR BOLT
TACK WELD NUT TO ROD IN SHOP
4"
B.O. SPREAD FOOTING

11 TYPICAL ANCHOR BOLT ASSEMBLY
1 1/2" = 1'-0"

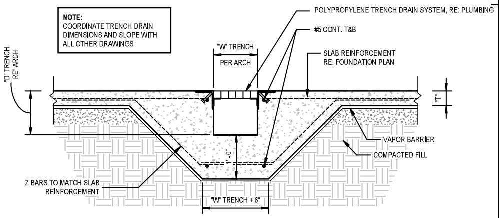

CORNER BARS
TOP AND BOTTOM BARS
CORNER CONDITION


CORNER BARS
TOP AND BOTTOM BARS
INTERSECTION

BAR SIZE	
#6 BAR OR LESS	44 BAR DIAMETERS
#7 BARS OR GREATER	55 BAR DIAMETERS

12 TYPICAL GRADE BEAM INTERSECTION
3/4" = 1'-0"

NOTE:
COORDINATE TRENCH DRAIN DIMENSIONS AND SLOPE WITH ALL OTHER DRAWINGS


POLYPROPYLENE TRENCH DRAIN SYSTEM, RE: PLUMBING
#5 CONT. T&B
"W" TRENCH PER ARCH
SLAB REINFORCEMENT RE: FOUNDATION PLAN
"D" TRENCH RE: ARCH
"T"
6"
VAPOR BARRIER
COMPACTED FILL
Z BARS TO MATCH SLAB REINFORCEMENT
"W" TRENCH + 6"

13 TYPICAL DETAIL @ TRENCH DRAIN
3/4" = 1'-0"

SET NO. ______

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21-ASP-CP-1608
GREENWELL SPRINGS & LIBERTY RD.
CENTRAL, LA 70739

MA PROJECT NUMBER: 23009

ISSUE/REVISIONS	DATE

SOUTHEAST ENGINEERS & LAND SURVEYORS

FOUNDATION DETAILS

S2.1

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