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ANTONINO G. MEDINA, P.E. 50995 ON 7/24/18. (RECORD COPY ON FILE) DRAWN BY: M. TAY

SCALE: 1/8" = 1'-0" DATE: JUNE 24, 2018 REVISION:

DETAIL "H"

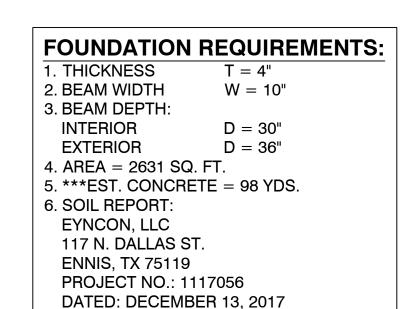
POST-TENSION

WHEN INDICATED ON PLAN, TYPICAL BEAM STRAND WHEN

JOB CODE: 1117056

SHEET OF 1 SHEET

PLANS ARE FOR STRAND AND BEAM PLACEMENT ONLY. SET FORMS, DROPS, BRICK LEDGES, HANDICAP RAMPS, ETC., BY ARCHITECTURAL FLOOR PLAN OR AS SPECIFIED BY OWNER/GENERAL CONTRACTOR.

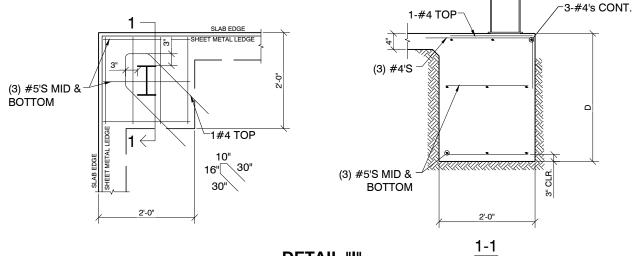


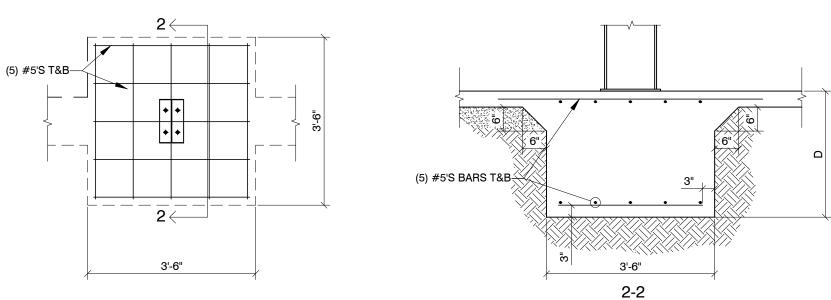
NOTE: TRANSITION BEAM DEPTH @ MIN. 1:6 SLOPE	9g 6 1 6 1
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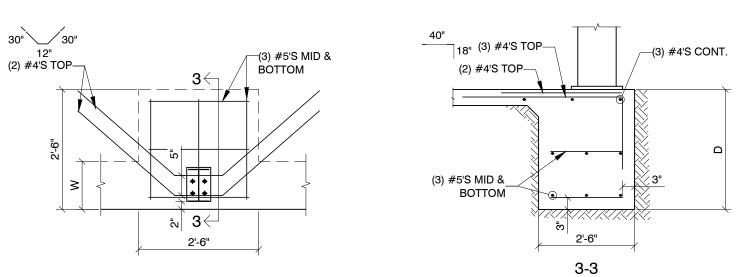
		-10	0%	Elongation	+10%
Qty.	Strand Mark	(in)		(in)	(in)
2	S20	1 3/8"		1 1/2"	1 11/16
28	S52	3 9/16"		3 15/16"	4 3/8"
6	S58	3 15/16"		4 7/16"	4 7/8"
2	BS20	1 3/8"		1 1/2"	1 11/16
1	BS21	1 7/16"		1 5/8"	1 3/4"
20	BS53	3 5/8"		4"	4 7/16"
4	BS59	4 1/16"		4 1/2"	4 15/16
Total Strand Quantity			63 EA		
Total Strand Length			3201 FT		

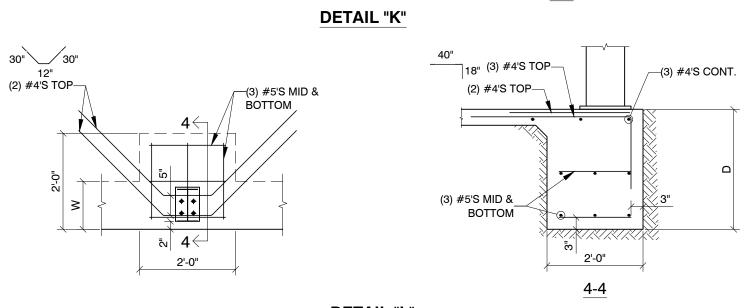
THIS FOUNDATION DESIGN IS FOR WATER BASED CHEMICAL INJECTION ONLY. THE POTENTIAL VERTICAL MOVEMENTS SHOULD BE LOWERED BY INJECTING WATER/CHEMICAL TO A DEPTH OF **6-FEET**. PREPARE A BUILDING PAD OF MINIMUM ONE-FOOT THICKNESS OR MORE DEPENDING ON THE REQUIRED FINISHED FLOOR ELEVATION (FFE) USING COMPACTED SELECT FILL PLACED IMMEDIATELY BELOW THE FLOOR SLAB "FOLLOWING" THE INJECTION, WHEN THE GROUND IS WORKABLE. THE COMPACTED SELECT FILL WILL HELP THE WATER/CHEMICAL INJECTED SOIL MASS RETAIN ITS MOISTURE AND PROVIDE A UNIFORM COMPACTED SUPPORT FOR THE FOUNDATION. INJECTION SEQUENCE FOLLOWS:

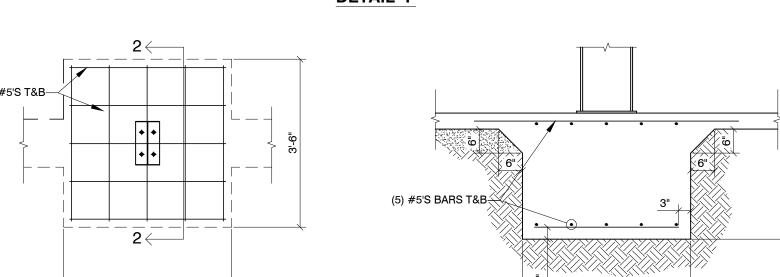
- 1. INJECTION INTO NATIVE SOIL (WITH VEGETATION) 2. WHEN GROUND IS WORKABLE FOLLOWING INJECTION REMOVE VEGETATION (APPROX 4")
- 3. IMMEDIATELY AFTER REMOVING VEGETATION, ADD SELECT FILL IN LIFTS COMPACTED TO REQUIRED FFE AND DENSITY
- 4. ALLOW A MINIMUM OF 2 WEEKS BEFORE PLACING CONCRETE TO ENABLE SOME MOISTURE EQUILIBRATION TO OCCUR SEE CORRESPONDING SOIL REPORT FOR DETAILED PROCESS & REQUIREMENTS

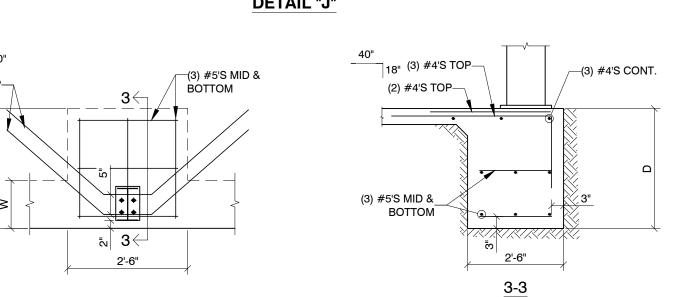


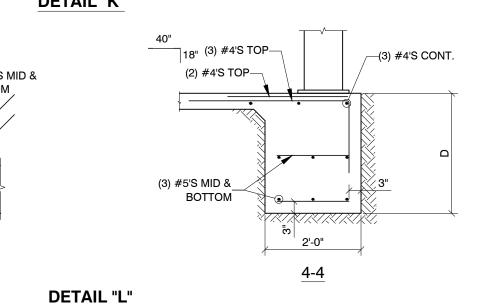


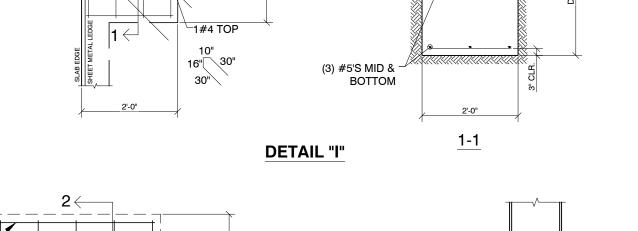


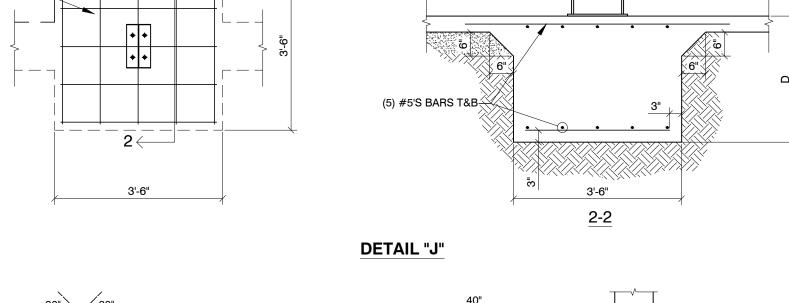


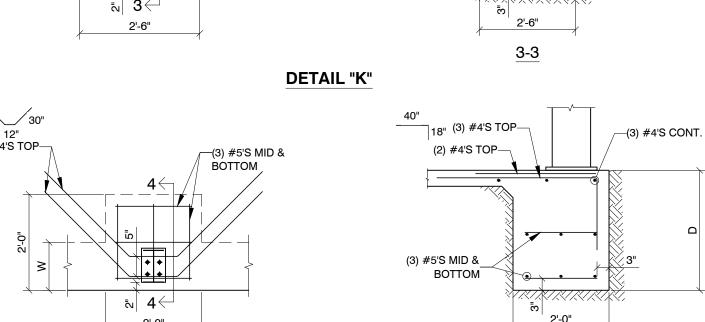


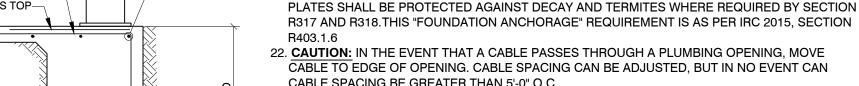












CABLE SPACING BE GREATER THAN 5'-0" O.C. 23.CAUTION: VIBRATE CONCRETE AT ALL CABLE LIVE AND DEAD END LOCATIONS, ESPECIALLY AT CORNERS WHERE SEVERAL CABLES ARE ANCHORED. MAXIMUM CONCRETE DENSITY IS REQUIRED TO ENSURE THAT A "BLOW-OUT" DOES NOT OCCUR DURING CABLE STRESSING. 24.TREE REMOVAL: COMPLETELY REMOVE ALL TREES WITHIN 10' OF FOUNDATION. BACKFILL AND MOISTURE CONDITION ALL VOIDS LEFT BY TREE IN 6" LIFTS COMPACTED TO 95% AND WITHIN 3% OF OPTIMUM MOISTURE.TREES CAN CAUSE EXCCESSIVE DRYING OF SOILS WHICH LEAD TO EDGE DROP AND FOUNDATION PROBLEMS. IF TREES ARE NOT REMOVED, BEAM DEPTH SHOULD BE MINIMUM 36" SPANNING 15 FT IN EACH DIRECTION AWAY FROM THE LOCATION OF THE TREE. 25. ***THE CONCRETE "ESTIMATE" SHOULD NOT BE USED TO CALCULATE TOTAL VOLUME.

1. TO PREVENT SETTLEMENT DUE TO SOIL CONSOLIDATION, ALL EXTERIOR FOUNDATION BEAMS MUST BE FOUNDED A MINIMUM OF 12 INCHES INTO UNDISTURBED SOIL OR UNIFORMLY

NON-EXPANSIVE SOIL WITH A PLASTICITY INDEX BETWEEN 12 TO 18, AND SHOULD BE PLACED IN LIFTS OF 6 TO 8 INCHES AND UNIFORMLY COMPACTED TO A MINIMUM OF 95% OF ASTM D698

(STANDARD PROCTER) MAXIMUM DENSITY AT A MOISTURE CONTENT IN BETWEEN OPTIMUM AND +3% OF OPTIMUM. WHEN FOUNDATION SITE CONTAINS FILL (MAX. 3'-0"), THE DEEPEN

BEAM DETAIL SHOULD BE USED IN THESE FILLED AREAS. FOR SITES WHERE FILL IS GREATER THAN 3'-0", PLEASE CONTACT EYNCON ENGINEERING TO INCORPORATE PIERS INTO THE

2. ALL CONCRETE SHALL BE NORMAL WEIGHT, WITH MINIMUM STRENGTH OF 3000 PSI AFTER 28

3. CONCRETE SHALL NOT BE PLACED WITH SLUMP GREATER THAN 5 INCHES.

8. PROVIDE A 6 MIL POLYETHYLENE MOISTURE RETARDER BENEATH SLAB AREA

5. PLUMBING MAY CROSS BEAMS BUT NOT BE PLACED IN BEAMS.

11. PLANS CAN BE REVERSED ON LOT AT BUILDERS DISCRETION.

BE ASTM A-615 GRADE 60

9. ALL STRANDS 1/2" DIA. - 270 KSI.

OWNER/GENERAL CONTRACTOR.

TO 12". SEE STANDARD DROP DETAIL.

FROM THE FOUNDATION A MINIMUM OF 6" IN 5'-0".

FOUNDATION WALLS OR TO AN APPROVED DRAINAGE SYSTEM

LEVEL SURFACE.

DAYS AND SHALL CONFORM TO ACI 318, ACI 301, AND ASTM C94, MOST CURRENT EDITIONS.

4. WHEN SPECIFIED ALL #3 BARS SHALL BE 40 GRADE STEEL AND ALL #4 OR LARGER BARS SHALL

6. ALL GRADE BEAMS AND SLAB AREA SHALL BE FREE OF ANY STANDING WATER AT THE TIME OF

7. 1"-2" OF CUSHION (LEVELING) SAND UNDER CONCRETE SLAB IS RECOMMENDED TO ACHIEVE A

10. THIS FOUNDATION DESIGN IS CONSIDERED INVALID UNLESS ACCOMPANIED BY A LETTER FROM

EYNCON ENGINEERING AUTHORIZING ITS USE ON A SPECIFIC LOT & BLOCK, OR ADDRESS.

12. PLANS ARE FOR STRAND AND BEAM PLACEMENT ONLY. SET FORMS, DROPS, BRICK LEDGES,

14. AT CONTRACTORS OPTION. BRICK LEDGE MAY BE INCLUDED OR OMITTED AT EXTERIOR DOOR

15. TO INSURE PROPER DRAINAGE AS STATED BELOW, THE ELEVATION OF THE TOP OF SLAB SHALL

16. A PARTIAL (PRE) STRESS OF THE CABLES IS HIGHLY RECOMMENDED IN ORDER TO MINIMIZE

17. DROPS: THE AMOUNT OF DROP AND EXACT LOCATION IS TO BE DETERMINED BY

BE A MINIMUM OF 12 INCHES ABOVE THE HIGHEST NATURAL GRADE ELEVATION AROUND THE

PERIMETER OF THE SLAB. WITHIN A MIN. DISTANCE OF 5', STANDING WATER (PONDING) WITHIN 10' OF THE FOUNDATION PERIMETER WILL RESULT IN SOIL EXPANSION WHICH WILL CAUSE

CRACKING. PARTIAL STRESSING SHOULD BE WITHIN 24 TO 48 HOURS, AT 30% OF MAX STRESS.

ARCHITECTURAL PLAN OR AS DIRECTED BY OWNER/CONTRACTOR. DROP MAY VARY FROM 121/21

18.DRAINAGE, DRAINAGE, DRAINAGE. DRAINAGE ALL AROUND A FOUNDATION IS CRITICAL IN

SOON AS CABLES ARE CUT, PROPER ROUGH GRADING IS REQUIRED. TO INSURE THAT

CLAY CONTENT SOIL AREAS, WILL CAUSE THE FOUNDATION TO HEAVE (MOVE-UP) AND

THE FOUNDATION SHALL BE 8" BELOW THE TOP OF THE FOUNDATION AND SLOPE AWAY

19.IN AREAS WHERE EXPANSIVE OR COLLAPSIBLE SOILS ARE KNOWN TO EXIST, ALL DWELLINGS SHALL HAVE A CONTROLLED METHOD OF WATER DISPOSAL FROM ROOFS THAT WILL COLLECT AND DISCHARGE ROOF DRAINAGE TO THE GROUND SURFACE AT LEAST 5 FEET (1524 MM) FROM

20.WOOD SOLE PLATES AT ALL EXTERIOR WALLS ON MONOLITHIC SLABS, WOOD SOLE PLATES OF

ANCHOR BOLTS SPACED A MAXIMUM OF 6 FEET (1829 MM) ON CENTER OR APPROVED

BRACED WALL PANELS AT BUILDING INTERIORS ON MONOLITHIC SLABS AND ALL WOOD SILL

PLATES SHALL BE ANCHORED TO THE FOUNDATION WITH MINIMUM ½ INCH DIAMETER (12.7 MM)

ANCHORS OR ANCHOR STRAPS SPACED AS REQUIRED TO PROVIDE EQUIVALENT ANCHORAGE

BE TIGHTENED ON EACH ANCHOR BOLT. THERE SHALL BE A MINIMUM OF TWO BOLTS PER PLATE SECTION WITH ONE BOLT LOCATED NOT MORE THAN 12 INCHES (305 MM) OR LESS THAN

SEVEN BOLT DIAMETERS FROM EACH END OF THE PLATE SECTION. INTERIOR BEARING WALL

SOLE PLATES ON MONOLITHIC SLAB FOUNDATION THAT ARE NOT PART OF A BRACED WALL

PANEL SHALL BE POSITIVELY ANCHORED WITH APPROVED FASTENERS. SILL PLATES AND SOLE

RESULT IN FOUNDATION PROBLEMS. THE FINAL GRADE (AFTER CABLES ARE CUT) AROUND

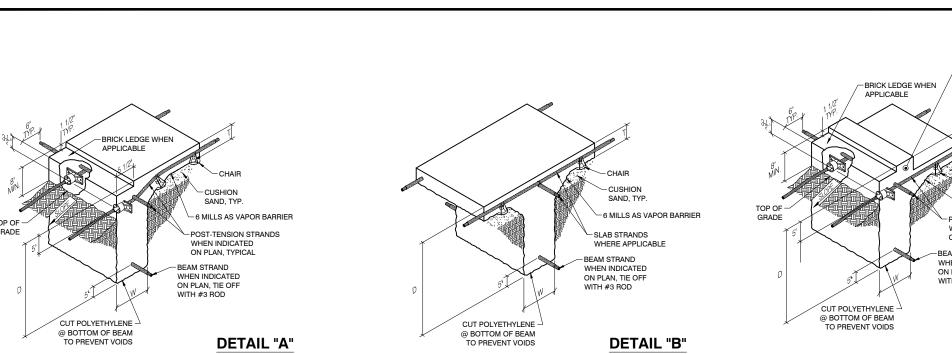
THERE ARE NO LOW SPOTS ADJACENT TO THE FOUNDATION WHERE WATER CAN STAND, THESE AREAS NEED TO BE FILLED AND ROUGH GRADED TO INSURE WATER FLOWS AWAY

AREAS WHERE EXPANSIVE SOIL EXISTS. STANDING WATER WITHIN 10 FEET OF A FOUNDATION WILL RESULT IN SOIL HEAVE AND UPWARD FOUNDATION MOVEMENT. AS

HANDICAP RAMPS, ETC., BY ARCHITECTURAL FLOOR PLAN OR AS SPECIFIED BY

13. AT CONTRACTORS OPTION, LIVE END AND DEAD END REVERSAL IS PERMITTED

BUILDER MUST RELY ON SUB-CONTRACTOR'S TAKE OFF BASED ON SITE ELEVATIONS AND UNKNOWN VARIABLES THAT INFLUENCE ACTUAL CONCRETE USED. EYNCON, LLC CANNOT BE HELD LIABLE FOR MATERIAL TAKE OFFS (MTO) DISCREPANCIES. 26.PRE-POUR INSPECTION BY EYNCON ENGINEERING REQUIRED.

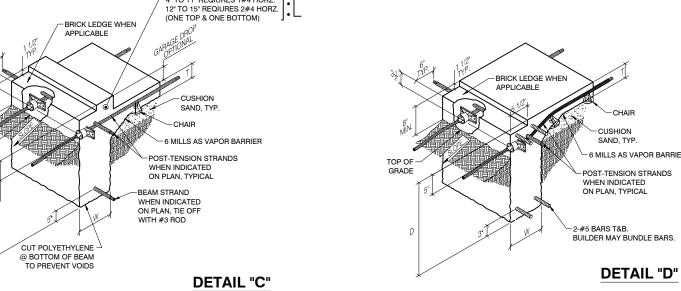


50'-3"

TO VERIFY ALL COLUMN LOCATIONS.

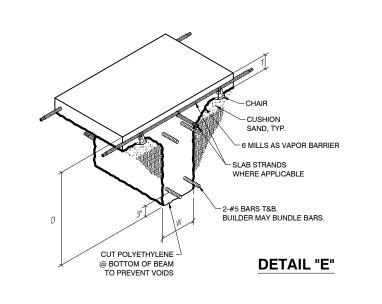
BUILDER/GENERAL CONTRACTOR

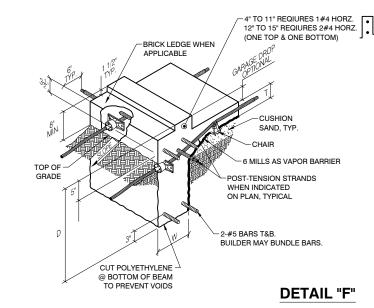
16 SPACES @ 3'-1"±

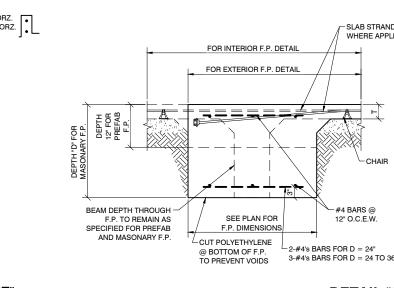


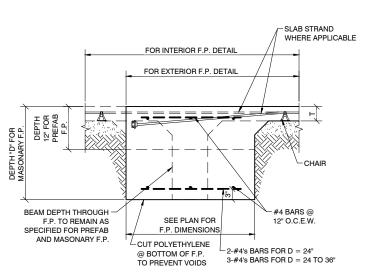
DIAGONAL:

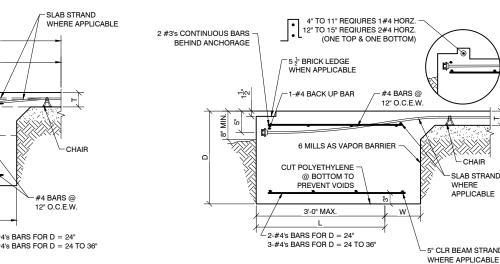
TOP



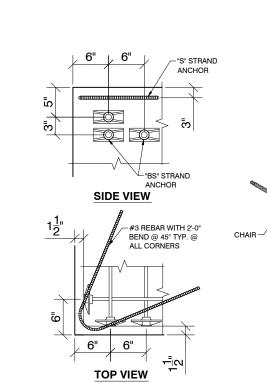












"2-BS" DETAIL

2-BS53

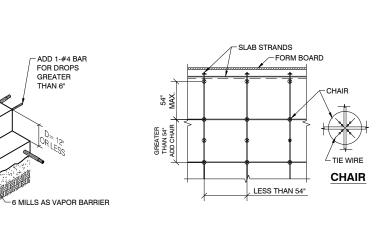
S52

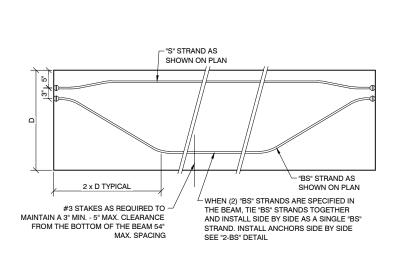
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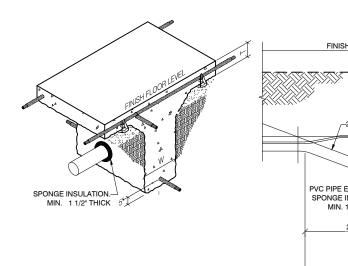
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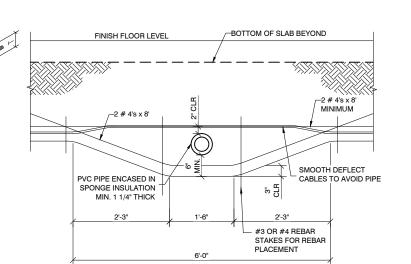
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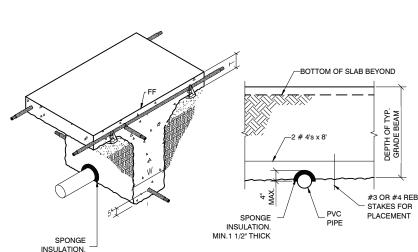
2-BS53

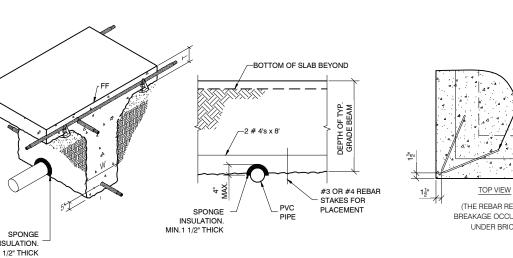


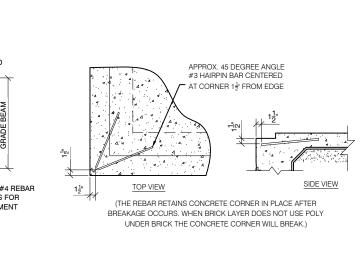


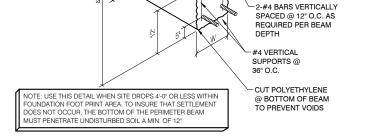












STANDARD DROP DETAIL **CHAIR LAYOUT BEAM STRAND "BS" DETAIL FULL PLUMBING PENETRATION**

PARTIAL PLUMBING PENETRATION

TYP. CORNER STIFFENER BAR

STANDARD DEEPEN BEAM DETAIL