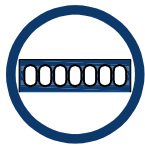


# NICORE CONNECTION DETAIL

## GENERAL NOTES

1. MANUFACTURE AND DELIVERY BY NITTERHOUSE CONCRETE PRODUCTS, INC. (NITTERHOUSE).
2. UNLOADING AND ERECTION BY CONTRACT.
3. G.C. TO PROVIDE FREE ACCESS AT JOB SITE FOR DELIVERY INCLUDING TEMPORARY ROADWAYS.
4. HOLLOW CORE PLANK MUST BE LIFTED WITH SLINGS UNLESS NOTED OTHERWISE. DO NOT LIFT PLANKS IN MIDDLE. SEE HOLLOW CORE PLANK HANDLING AND STORAGE DETAIL.
5. USE BEARING STRIPS UNDER ENDS OF PLANK BEARING ON MASONRY OR CAST IN PLACE CONCRETE.
6. SEALANT BACKER ROD FURNISHED BY NITTERHOUSE AND INSTALLED BY CONTRACT.
7. LEVEL PLANK BY JACKING THE UNDERSIDE OF THE PLANK AND GROUTING THE JOINTS. REMOVE JACKS THE FOLLOWING DAY.
8. GROUTING OF LONGITUDINAL PLANK JOINTS BY CONTRACT.
9. GROUTING OF PLANK BUTT JOINTS (IF REQUIRED) BY CONTRACT.
10. GROUTING OF PLANK END CELLS (IF REQUIRED) BY CONTRACT.
11. CAULKING OF UNDERSIDE JOINTS (IF REQUIRED) BY CONTRACT.
12. FEATHERING OF TOP SIDE GROUT JOINTS (IF REQUIRED) BY CONTRACT.
13. AN "X" ON LAYOUT INDICATES A WELD PLATE CAST IN THE PLANK.
14. ALL PLANK ON LAYOUT ARE 4'-0" WIDE UNLESS NOTED OTHERWISE.
15. AN "\*\*\*\*" SHOWN ON LAYOUT INDICATES THE FACTORY CUT SIDE OF A PLANK LESS THAN 4'-0" WIDE.
16. ALL OPENINGS UNDER CONTRACT MUST BE SHOWN ON THIS LAYOUT UNLESS NOTED OTHERWISE.
17. ANY TOPPING, MESH, AND DRILLING OR CUTTING OF HOLES 10" OR SMALLER IN ANY DIRECTION IS BY OTHERS.
18. NO PRESTRESSING STRAND AND/OR REINFORCING SHALL BE CUT IN FIELD UNLESS GRANTED PRIOR APPROVAL BY NITTERHOUSE ENGINEERING DEPARTMENT. ALSO SEE GENERAL INSTRUCTIONS FOR DRILLING HOLES IN PLANK.
19. NO WALLS, PIPE, CONDUIT OR OTHER OBJECTS TO EXTEND ABOVE BEARING LEVEL OF PRECAST PLANKS UNTIL PLANKS ARE IN PLACE.
20. ALL TRADES ARE TO REMAIN OFF DECK AREAS UNTIL FIELD CREWS HAVE FINISHED ERECTING, LEVELING, GROUTING AND ANY OTHER FINISHING THAT MAY BE REQUIRED.
21. REINFORCING BARS FOR THE GROUT JOINTS ARE FURNISHED BY OTHERS AND INSTALLED BY OTHERS UNLESS NOTED OTHERWISE ON ERECTION DRAWINGS.
22. THE TAKING OF FIELD DIMENSIONS FOR AS-BUILT CONDITIONS IS BY OTHERS.
23. ANY AND ALL HARDWARE SUPPLIED BY NITTERHOUSE IS INDICATED BY A UNIQUE AND DISTINCT MARK NUMBER ON ERECTION DRAWINGS. ALL OTHER HARDWARE SHOWN IS BY OTHERS EVEN IF NOT EXPLICITLY STATED.
24. ALL MASONRY SURFACES FOR PLANK BEARING MUST BE SOLID.
25. FOR APPLICATIONS OF CERAMIC OR QUARRY TILE OVER PRECAST FLOOR SYSTEMS, IT IS RECOMMENDED THAT A CLEAVAGE MEMBRANE OF EITHER 16 LB ROOFING FELT OR 4 MIL POLYETHYLENE FILM BE PLACED PRIOR TO APPLICATION OF THE MORTAR BED. REFER TO TILE MANUFACTURER FOR SPECIFIC INSTRUCTIONS.
26. IF THE PRECAST CONCRETE MEMBERS ARE MODIFIED IN ANY WAY, E.G. BY DRILLING, GRINDING, CUTTING, CRASHING, OR ABRASIVE BLASTING ON THE JOB SITE, THE ENTITY PERFORMING THE MODIFICATION IS TO COMPLY WITH APPLICABLE OSHA RESPIRABLE CRYSTALLINE SILICA STANDARDS, I.E. CFR 1910.1053 AND/OR CFR 1926.1153. USE PROPER ENGINEERING CONTROLS, WORK PRACTICES AND PERSONAL PROTECTION EQUIPMENT (PPE) TO PREVENT EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA AND CONCRETE DUST. REFER TO THE SAFETY DATA SHEET (SDS) LOCATED AT:  
[HTTP://NITTERHOUSECONCRETE.COM/WP-CONTENT/UPLOAD/2012/NITTERHOUSE-PCI-SDS-SILICA.PDF](http://nitterhouseconcrete.com/wp-content/upload/2012/nitterhouse-pci-sds-silica.pdf).



# NICORE CONNECTION DETAIL

## SPECIFICATIONS

1. ALL MANUFACTURING IS IN ACCORDANCE WITH THE P.C.I. MANUAL FOR QUALITY CONTROL (MNL-116. LATEST EDITION)
2. INITIAL PRESTRESSING ON EACH STRAND IS 60% OF ULTIMATE, PLUS CORRECTIONS.
3. RELEASE STRENGTH IS 3,800 PSI.
4. TYPE OF TOP SURFACE FINISH IS MACHINE CAST SMOOTH OR STRUCTURAL BROOM. BOTTOM OF PLANK IS EXPOSED TO VIEW AND WILL BE STANDARD GRADE FORM FINISH, PER P.C.I. MNL-116 APPENDIX C.
5. THE ENTIRE HOLLOW CORE PLANK SECTION IS MANUFACTURED FROM 6,000 PSI CONCRETE.
6. LIFTING AND STACKING POINTS MAXIMUM OF 2'-0" FROM EACH END UNLESS NOTED OTHERWISE.
7. CAMBER IS INHERENT TO PRESTRESSED HOLLOW CORE PLANK AND IS A FUNCTION OF THE AMOUNT OF ECCENTRIC PRESTRESSING FORCE NEEDED TO CARRY THE SUPERIMPOSED DESIGN LOADS. PREDICTION OF CAMBER IS BASED ON EMPIRICAL FORMULAS AND IS AT BEST AN ESTIMATE. ACTUAL CAMBER IS USUALLY HIGHER THAN CALCULATED VALUES, THEREFORE CALCULATED LONG-TERM VALUES SHOULD NEVER BE CONSIDERED ANY BETTER THAN ESTIMATES. NONSTRUCTURAL COMPONENTS ATTACHED TO MEMBERS WHICH COULD BE AFFECTED BY CAMBER VARIATIONS, SUCH AS PARTITIONS OR FOLDING DOORS, SHOULD BE PLACED WITH ADEQUATE ALLOWANCE FOR THESE VARIATIONS. CALCULATION OF TOPPING QUANTITIES SHOULD ALSO RECOGNIZE THE IMPRECISION OF CAMBER CALCULATIONS. WHERE COMPOSITE TOPPING IS PROVIDED, THE TOPPING THICKNESS SHOWN HEREON SHALL BE MAINTAINED AT MIDSPAN OF THE PLANK. THE COMPOSITE TOPPING CAN FOLLOW THE CURVATURE OF THE PLANK, OR THE THICKNESS CAN BE INCREASED AT THE BEARING ENDS TO MAINTAIN A FLAT FLOOR. BASED UPON EXPERIENCE, CAMBER AT THE TIME OF ERECTION MAY BE ESTIMATED AS FOLLOWS;

SPAN EQUALS 10 FEET TO 15 FEET ..... 5/8 INCH

SPAN EQUALS 15 FEET TO 20 FEET ..... 3/4 INCH

SPAN EQUALS 20 FEET TO 25 FEET ..... 1 INCH

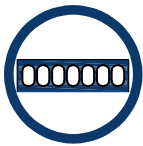
SPAN EQUALS 25 FEET TO 30 FEET ..... 1 1/4 INCH

SPAN EQUALS 30 FEET TO 35 FEET ..... 1 3/8 INCH

SPAN EQUALS 35 FEET TO 40 FEET ..... 1 3/8 INCH

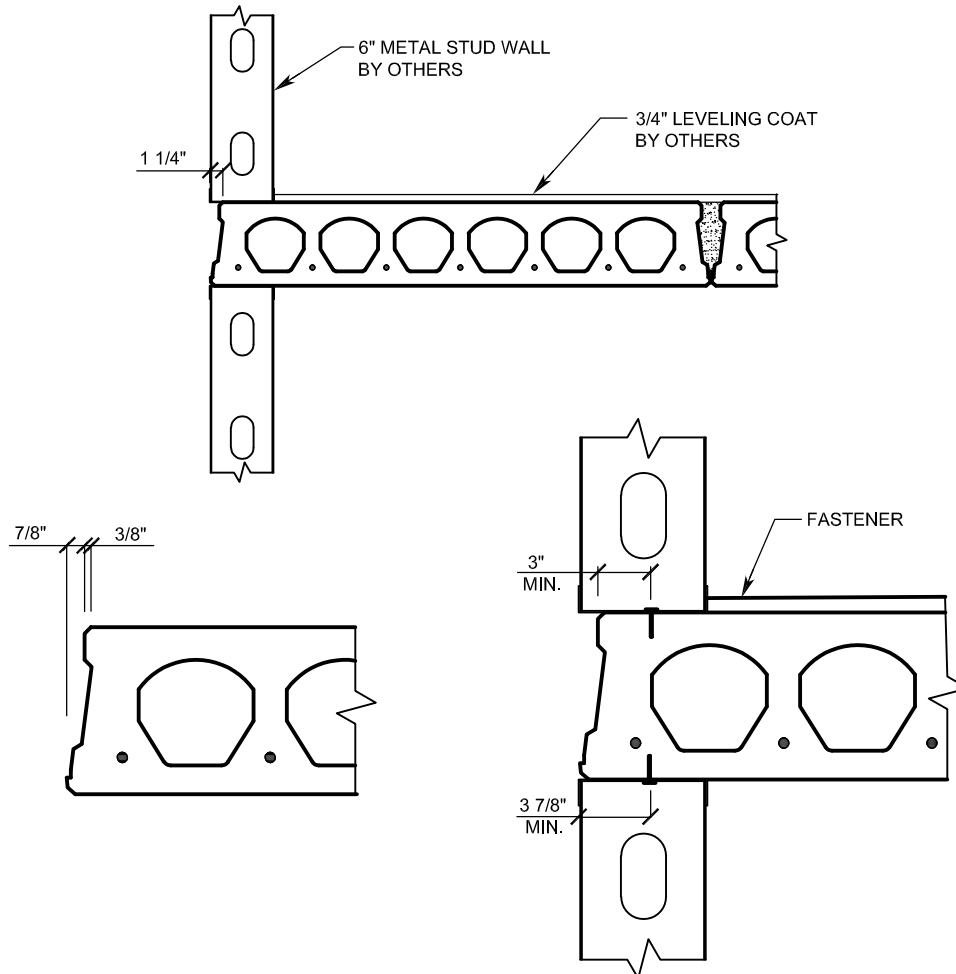
SPAN EQUALS 40 FEET TO 45 FEET ..... 1 1/2 INCH

8. VARIATIONS OF + OR - 3/8" BETWEEN TOPS AND BOTTOMS OF ADJACENT PLANK MUST BE ACCEPTABLE (FOR DELIVERED ONLY FLOOR PLANK WITHOUT TOPPING, ANY VARIATIONS FROM THIS MUST BE FEATHERED BY G.C. FOR INSTALLATION OF 55 LBS. MIN. PAD AND CARPET.)



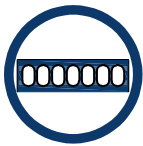
# NICORE CONNECTION DETAIL

## 4'-0" WIDE NICORE AT EXTERIOR 6" STUD CLADDING WALL



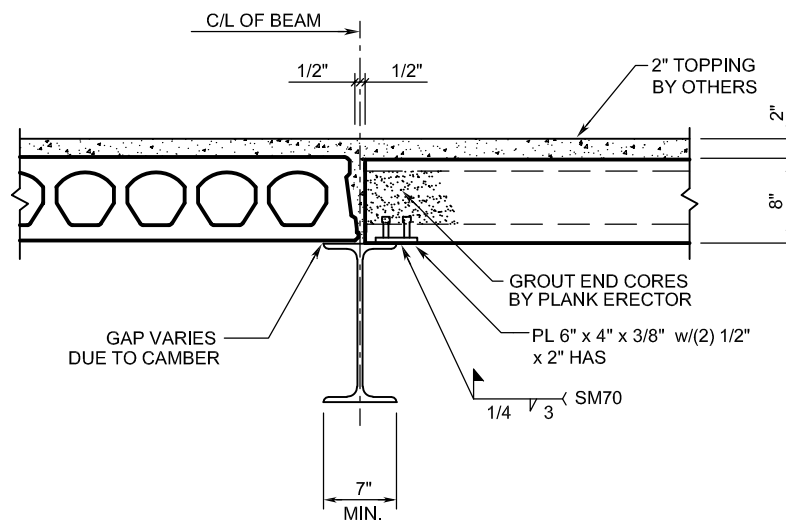
### NOTES:

1. NITTERHOUSE TESTING TO DETERMINE MINIMUM EDGE DISTANCE WAS DONE WITH A 22 CALIBER CARTRIDGE.
2. THE 3" EDGE DISTANCE SHOWN MUST NOT BE LESS THAN RECOMMENDED BY FASTENER MANUFACTURER.
3. DETAIL FOR A 4" NOMINAL STUD WALL IS SHOWN ELSEWHERE.



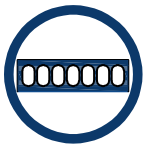
# NICORE CONNECTION DETAIL

## DETAIL OF BEARING ON STEEL BEAM



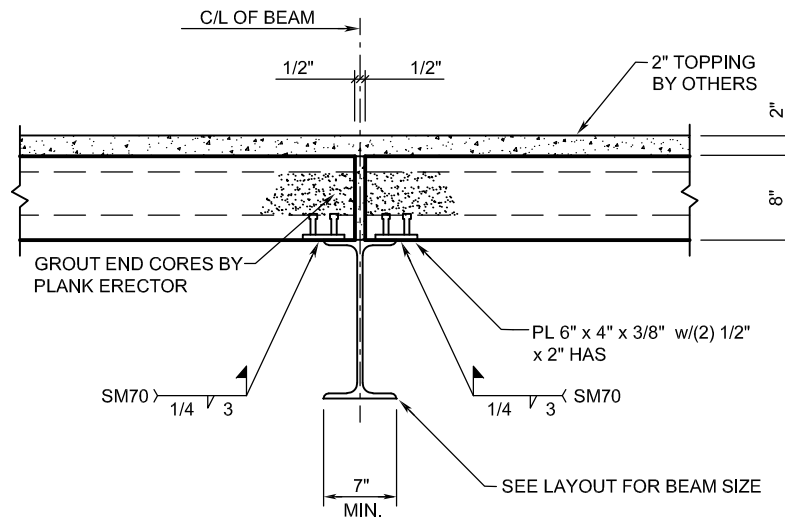
### NOTES:

1. NITTERHOUSE WILL PROVIDE A BROOMED FINISH IN ORDER TO CREATE A COMPOSITE TOPPING. C.I.P. TOPPING BY OTHERS IS TO BE 3,000 PSI. (NORMAL WEIGHT CONCRETE).
2. WELD PLATES ARE FOR BRACING THE COMPRESSION FLANGE OF THE STEEL BEAM AND FOR TRANSFERRING DIAPHRAGM FORCES. THEY ARE NOT TO HOLD THE PLANKS ON THE STEEL BEAMS. THE CONTRACT DRAWING SHALL INDICATE THE REQUIRED SPACING USING 4'-0" INCREMENTS.



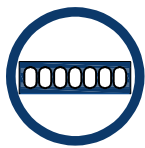
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## DETAIL OF BEARING ON STEEL BEAM



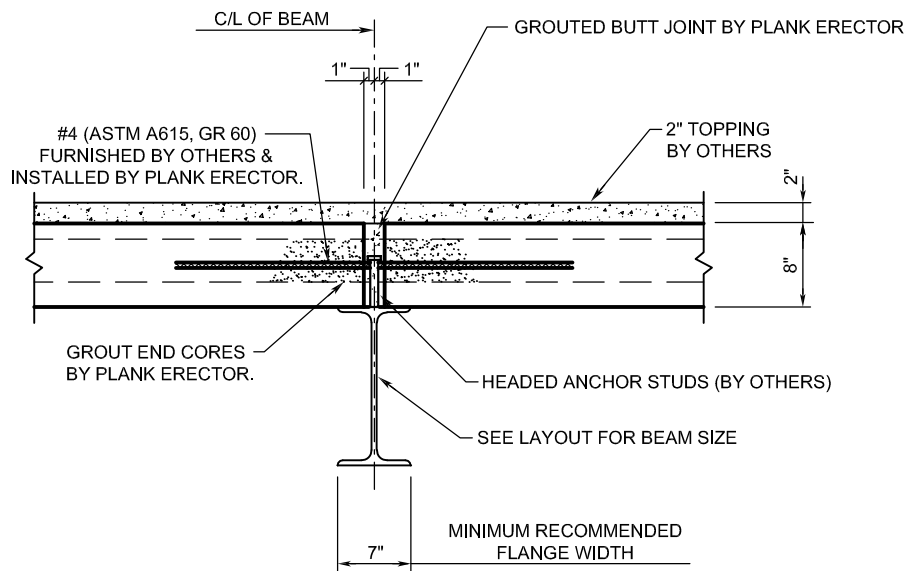
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3. NITTERHOUSE WILL PROVIDE A SMOOTH FINISH FOR INSTALLATION OF ROOFING MATERIALS BY OTHERS.
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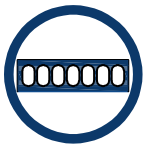
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## DETAIL OF BEARING ON STEEL BEAM



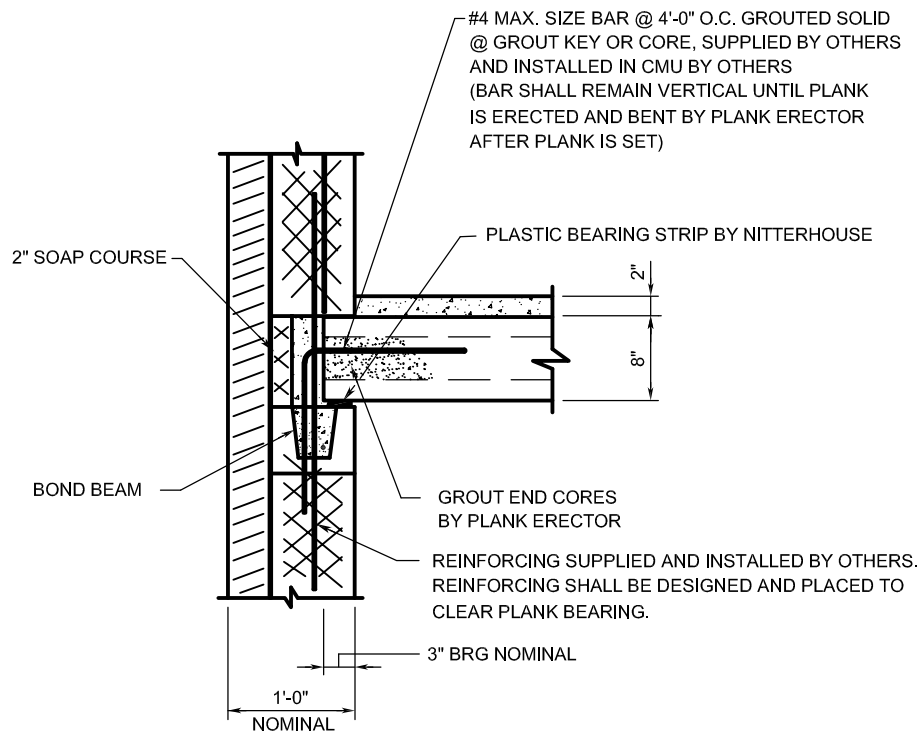
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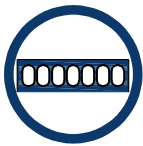
# NICORE CONNECTION DETAIL

## BEARING AT EXTERIOR WALL



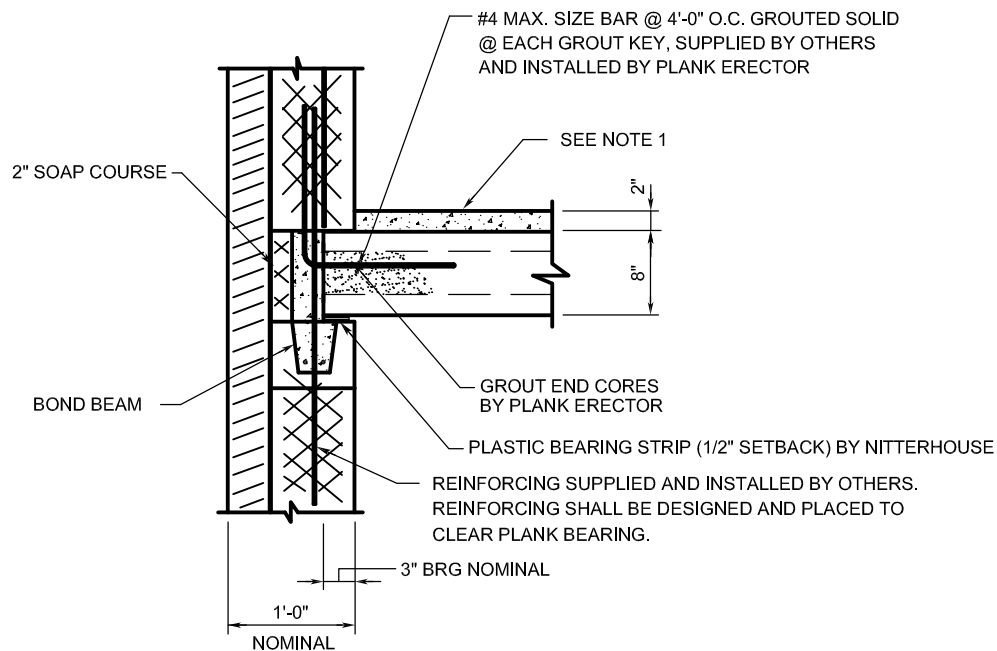
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3. IF GROUT KEYS DO NOT ALIGN, BREAK OUT TOP OF CORE IN PLANK AND GROUT REBAR IN CORE/GROUT KEY FOR FULL LENGTH OF REBAR. ALSO SEE GENERAL NOTE 26 FOR OSHA SILICA REGULATIONS.



# NICORE CONNECTION DETAIL

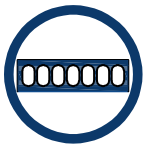
## BEARING AT EXTERIOR WALL



### NOTES:

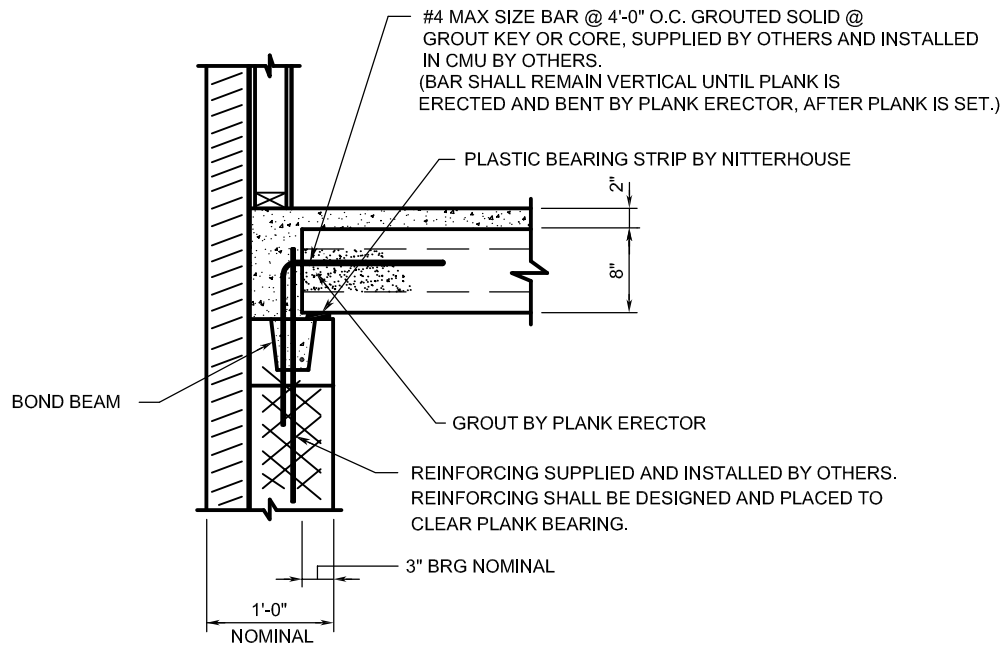
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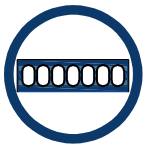
# NICORE CONNECTION DETAIL

## BEARING AT EXTERIOR WALL



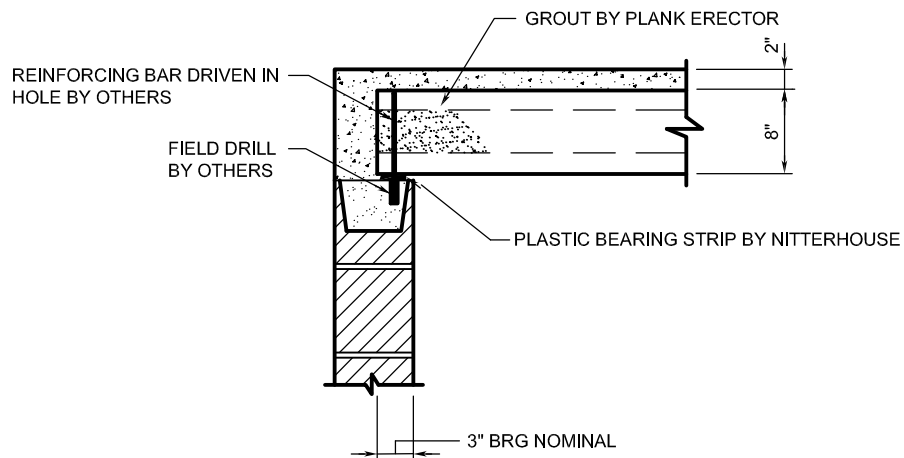
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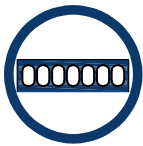
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## BEARING AT EXTERIOR WALL



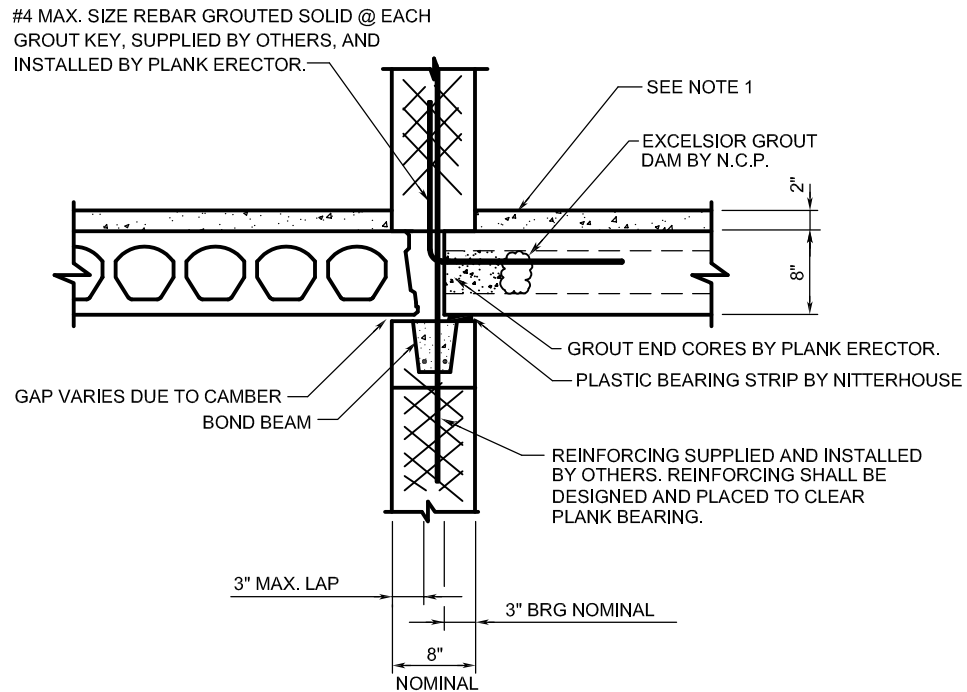
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2. THE DESIGN OF CONNECTIONS FOR PLANK TO OTHER BUILDING COMPONENTS IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD, SINCE THEY ARE PART OF THE GLOBAL DESIGN OF THE STRUCTURE.
3. GROUT FORM WORK IS BY OTHERS



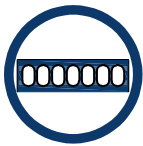
# NICORE CONNECTION DETAIL

## BEARING AT INTERIOR WALL



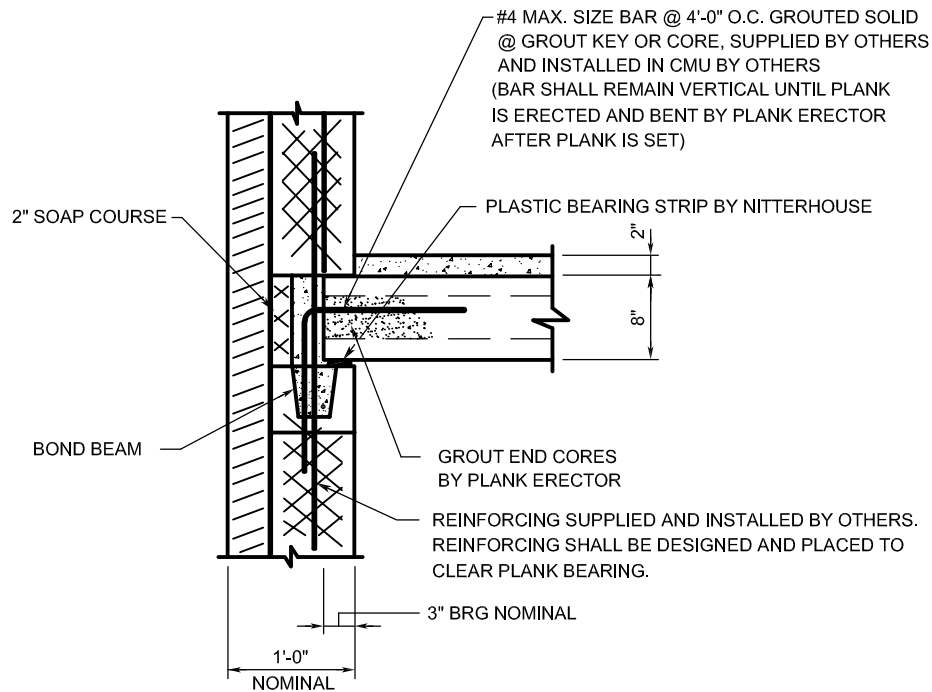
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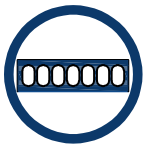
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## BEARING AT EXTERIOR WALL



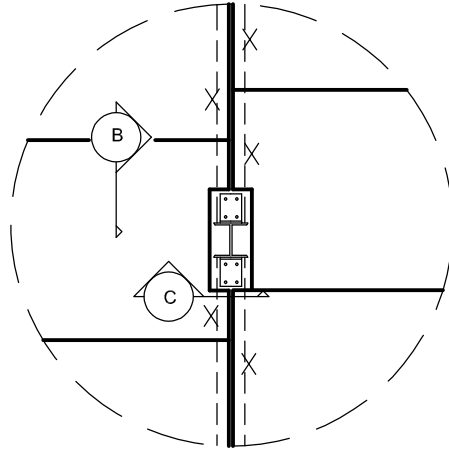
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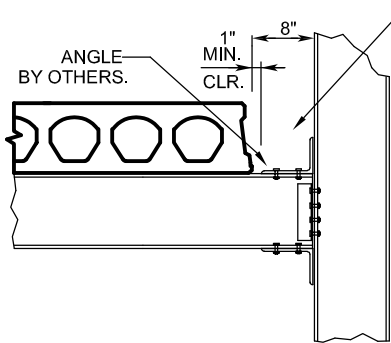


# NICORE CONNECTION DETAIL

## STEEL COLUMN/BEAM CONNECTION

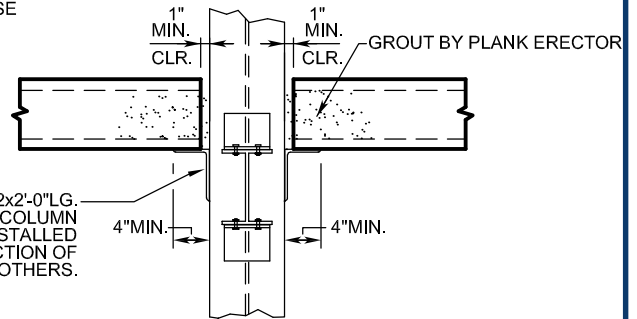


**DETAIL A**  
PLAN VIEW



**SECTION B**  
NOT TO SCALE

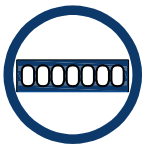
FILL AS REQ'D  
NOT BY NITTERHOUSE



**SECTION C**  
NOT TO SCALE

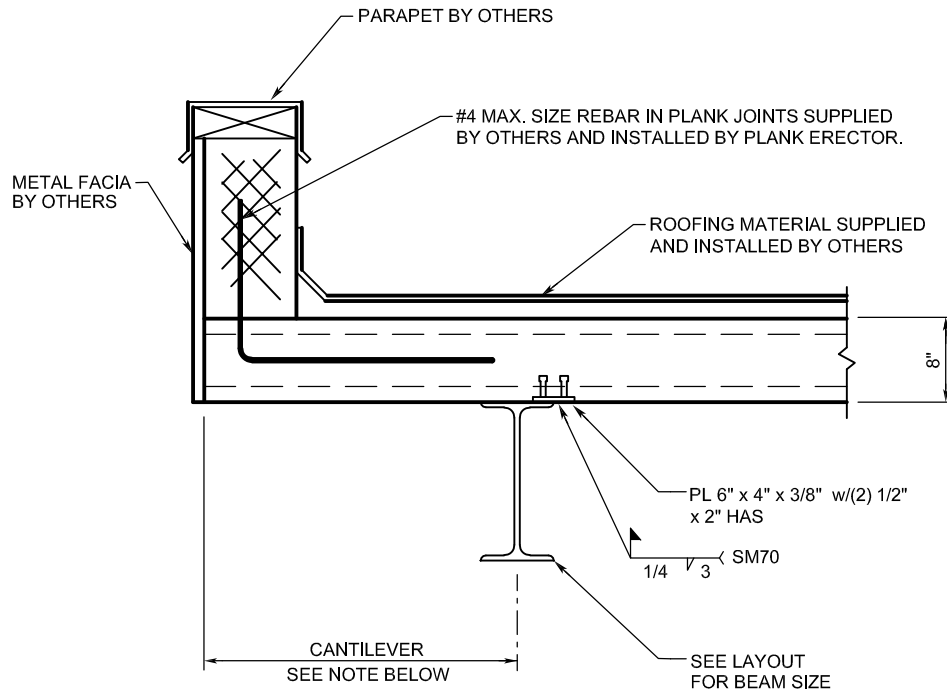
### NOTES:

1. THE E.O.R. AND THE GENERAL CONTRACTOR ARE RESPONSIBLE FOR DESIGNING, SUPPLYING AND INSTALLATION OF PLANK BEARING SUPPORT AT STEEL COLUMN/ BEAM CONNECTION.



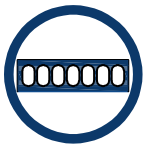
# NICORE CONNECTION DETAIL

## DETAIL OF CANTILEVER BEARING ON STEEL BEAM AT ROOF LEVEL



### NOTES:

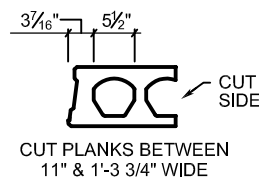
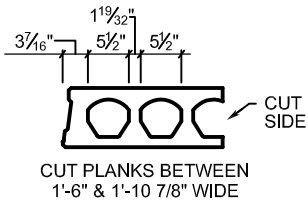
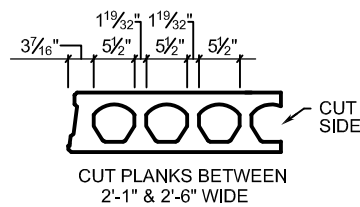
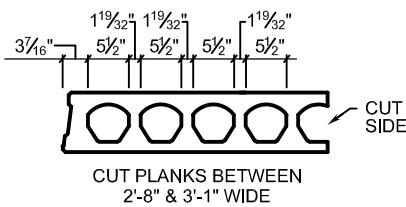
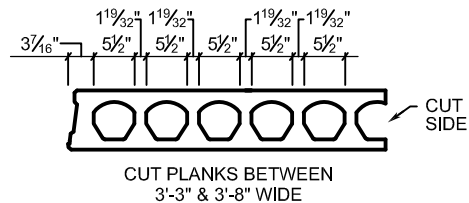
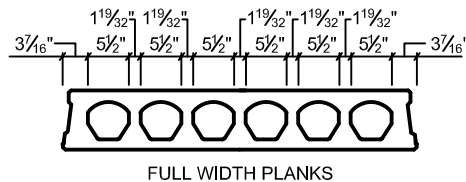
1. NITTERHOUSE WILL PROVIDE A BROOMED FINISH IN ORDER TO CREATE A COMPOSITE TOPPING. C.I.P. TOPPING BY OTHERS IS TO BE 3,000 PSI. (NORMAL WEIGHT CONCRETE).
2. THE DESIGN OF CONNECTIONS FOR HOLLOW CORE PLANK TO OTHER BUILDING COMPONENTS IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD, SINCE THEY ARE PART OF THE GLOBAL DESIGN OF THE STRUCTURE.
3. CONSULT NITTERHOUSE'S ENGINEERING DEPARTMENT FOR CANTILEVER RECOMMENDATIONS
4. NITTERHOUSE WILL PROVIDE A SMOOTH FINISH FOR INSTALLATION OF ROOFING MATERIALS BY OTHERS.
5. WELD PLATES ARE FOR BRACING THE COMPRESSION FLANGE OF THE STEEL BEAM AND FOR TRANSFERRING DIAPHRAGM FORCES. THEY ARE NOT TO HOLD THE PLANKS ON THE STEEL BEAMS. THE CONTRACT DRAWINGS SHALL INDICATE THE REQUIRED SPACING USING 4'-0" INCREMENTS.



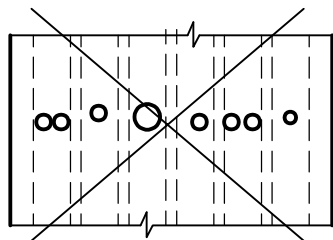
# NICORE CONNECTION DETAIL

## GENERAL INSTRUCTIONS FOR DRILLING HOLES IN HOLLOW-CORE PLANKS

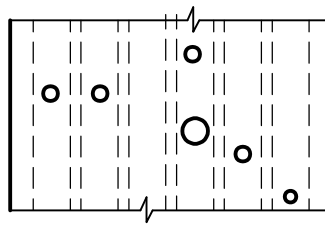
1. HOLES SHOULD BE DRILLED IN CORES WHEREVER POSSIBLE.  
(NOTE CUT SIDES OF PLANKS ARE MOST VISIBLE FROM THE UNDERSIDE)



2. DO NOT CONCENTRATE HOLES AT ONE PLACE IN PLANK

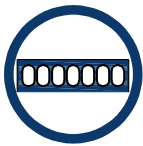


NO



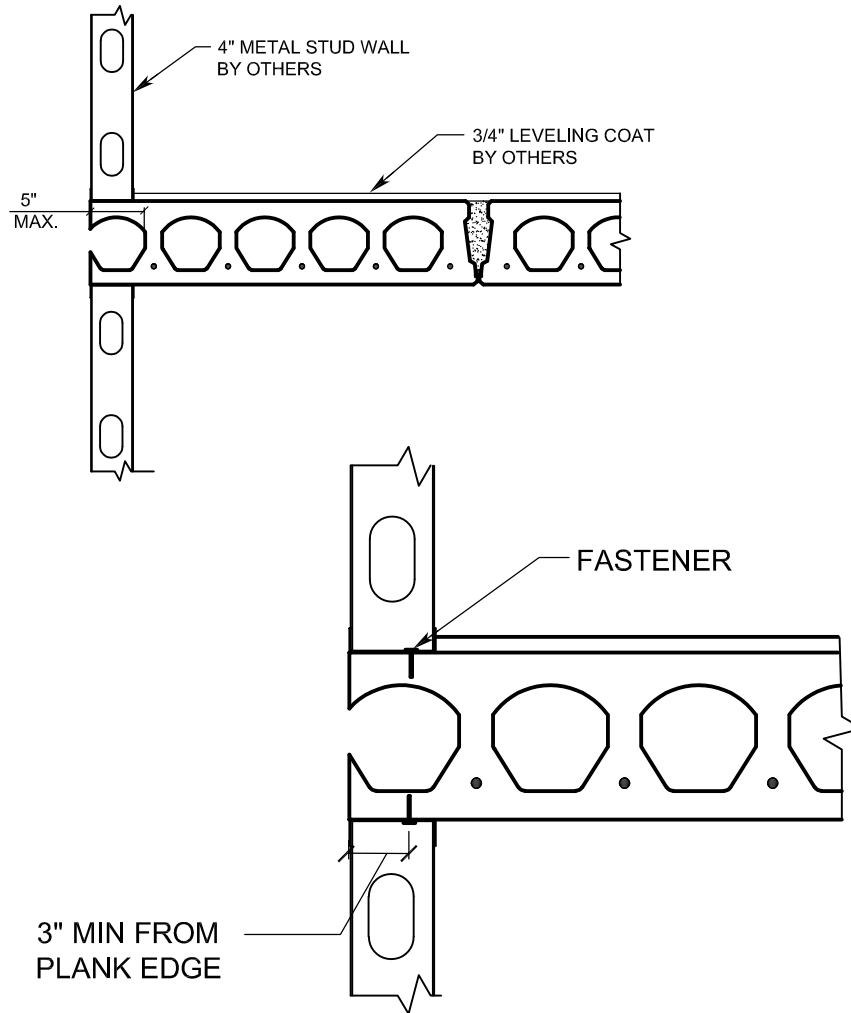
OK

3. OBVIOUSLY SOME CASES MIGHT INVOLVE CUTTING A WEB. IN GENERAL THIS MAY BE DONE IN PLANKS THAT MEET ALL OF THE FOLLOWING:
- a.) ONLY IN 4'-0" WIDE PLANKS
  - b.) ONLY CUT INTO TWO WEBS PER PLANK
  - c.) PLANKS WITH NO FACTORY CUT OPENINGS
  - d.) PLANKS NOT SUPPORTING OTHER PLANKS
  - e.) NO CLOSER THAN EVERY FOURTH PLANK
4. FOR SPECIFIC LOCATION QUESTIONS, EITHER MORE CRITICAL THAN ABOVE OR NOT MENTIONED ABOVE, PLEASE CONTACT THE ENGINEERING DEPARTMENT AT NITTERHOUSE @ (717-267-4505) OR FAX (717-267-4518) A DETAIL OF THE LOCATION FOR OUR APPROVAL



# NICORE CONNECTION DETAIL

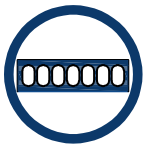
## NICORE RIP AT EXTERIOR 4" STUD CLADDING WALL



### NOTES:

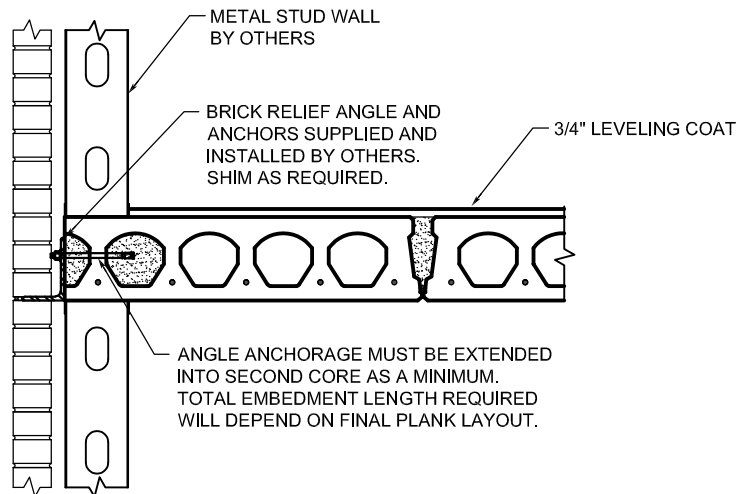
1. NITTERHOUSE TESTING TO DETERMINE MINIMUM EDGE DISTANCE WAS DONE WITH A 22 CALIBER CARTRIDGE.
2. THE 3" EDGE DISTANCE SHOWN MUST NOT BE LESS THAN RECOMMENDED BY FASTENER MANUFACTURER.
3. DETAIL FOR A 6" NOMINAL STUD WALL IS SHOWN ELSEWHERE.

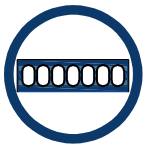




# NICORE CONNECTION DETAIL

## NICORE RIP AT BRICK RELIEF ANGLE

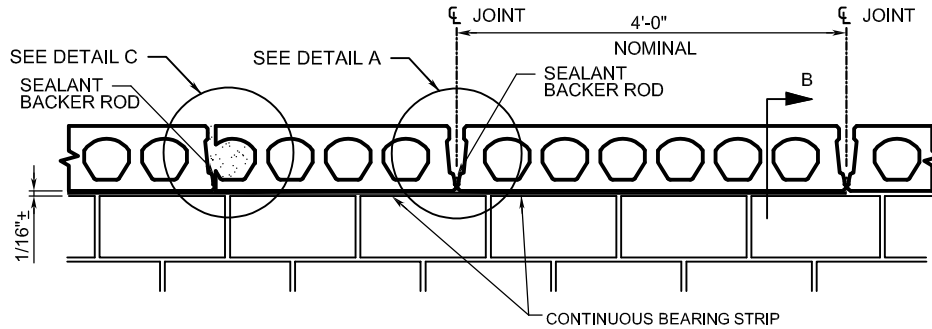




# NICORE CONNECTION DETAIL

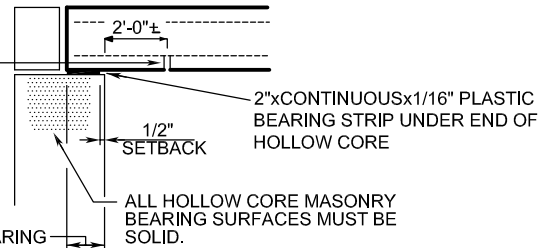
## TYPICAL ERECTION DETAILS

NOTE: IF TOPPING IS REQUIRED, JOINTS MUST BE GROUTED FIRST.  
3500 PSI SAND & CEMENT GROUT IN JOINTS



## TYPICAL ERECTION DETAILS FOR HOLLOW CORE PLANK

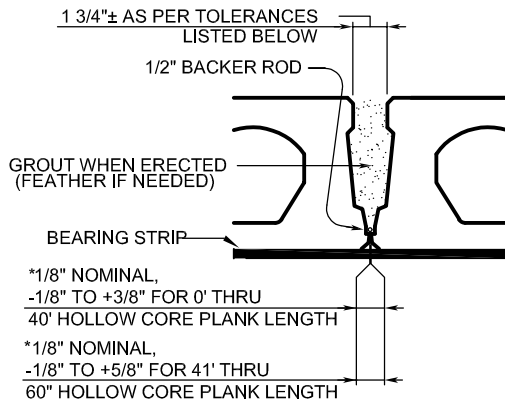
WHILE ERECTING HOLLOW CORE PLANK DURING COLDER WINTER MONTHS, IT MAY BE NECESSARY TO FIELD DRILL 3/8"Ø WEEP HOLES IN THE HOLLOW CORES OF UNPROTECTED HOLLOW CORE PLANK. THIS IS DONE TO PREVENT BREAKAGE OF THE FLANGES CAUSED BY EXPANSION OF FREEZING WATER TRAPPED IN THE HOLLOW CORES.



THE MASONRY DIMENSIONS SHOWN ON THESE DRAWINGS ARE NOMINAL. THEREFORE, THE BEARING DIMENSIONS ARE ALSO NOMINAL. ACTUAL BEARING DIMENSIONS WILL BE LESS THAN SHOWN ON SPECIFIC BEARING SECTIONS.

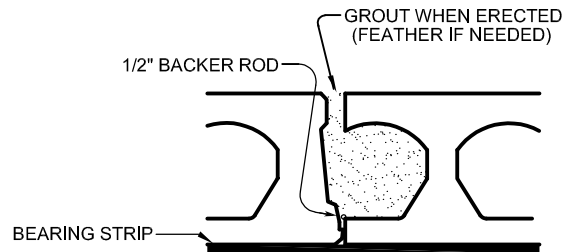
### SECTION B

(REFER TO CONTRACT FOR WEEP HOLE INCLUSION OR EXCLUSION FROM (NORMAL WEIGHT SCOPE OF WORK))



### DETAIL A

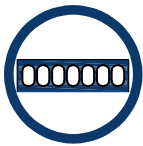
\* ADJUST AS REQUIRED TO ACCOMMODATE CONSTRUCTED BUILDING DIMENSIONS.



### DETAIL C

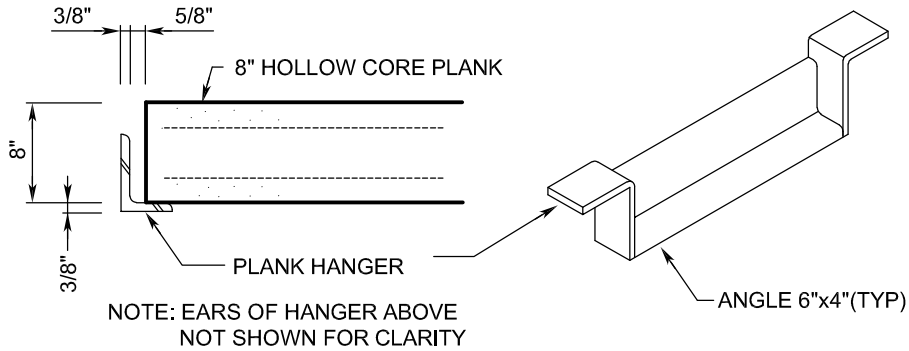
FACTORY CUT SIDE OF PLANK DENOTED BY "''' ON LAYOUT

NOTE: HARDBOARD STRIPS MAY BE SUBSTITUTED, IF REQUESTED AND AGREED TO BY CONTRACT.

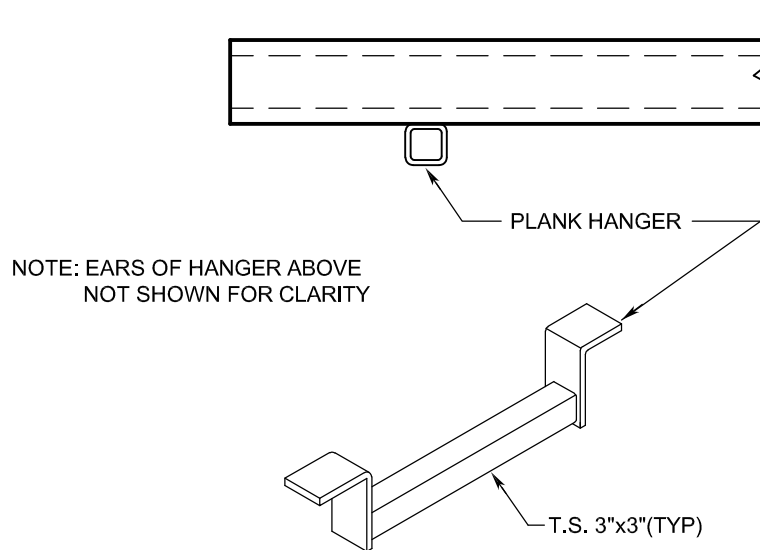


# NICORE CONNECTION DETAIL

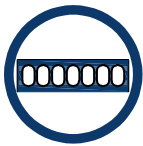
## HANGER DESIGN



## TYPICAL HANGER

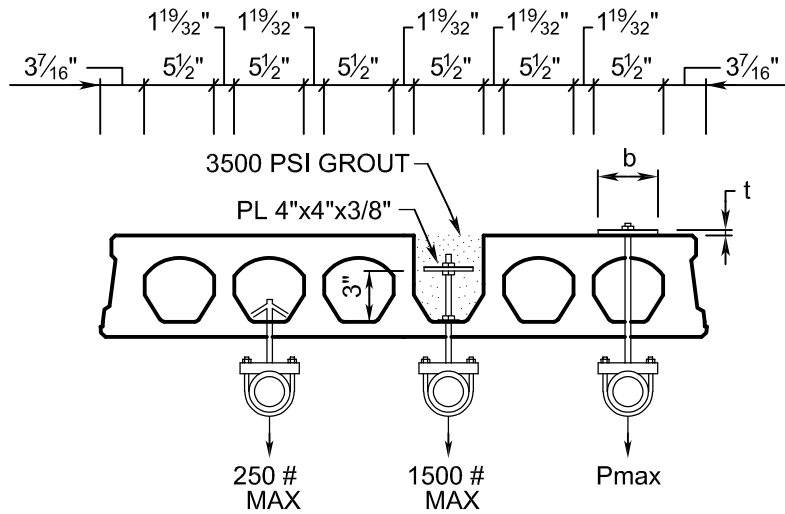


## SPECIAL UNDER-SLUNG HANGER FOR LARGE OPENINGS



# NICORE CONNECTION DETAIL

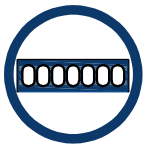
## CAPACITIES FOR MECHANICAL HANGERS



(HANGERS TO BE SPACED NO CLOSER THAN 7 1/8" O.C.)

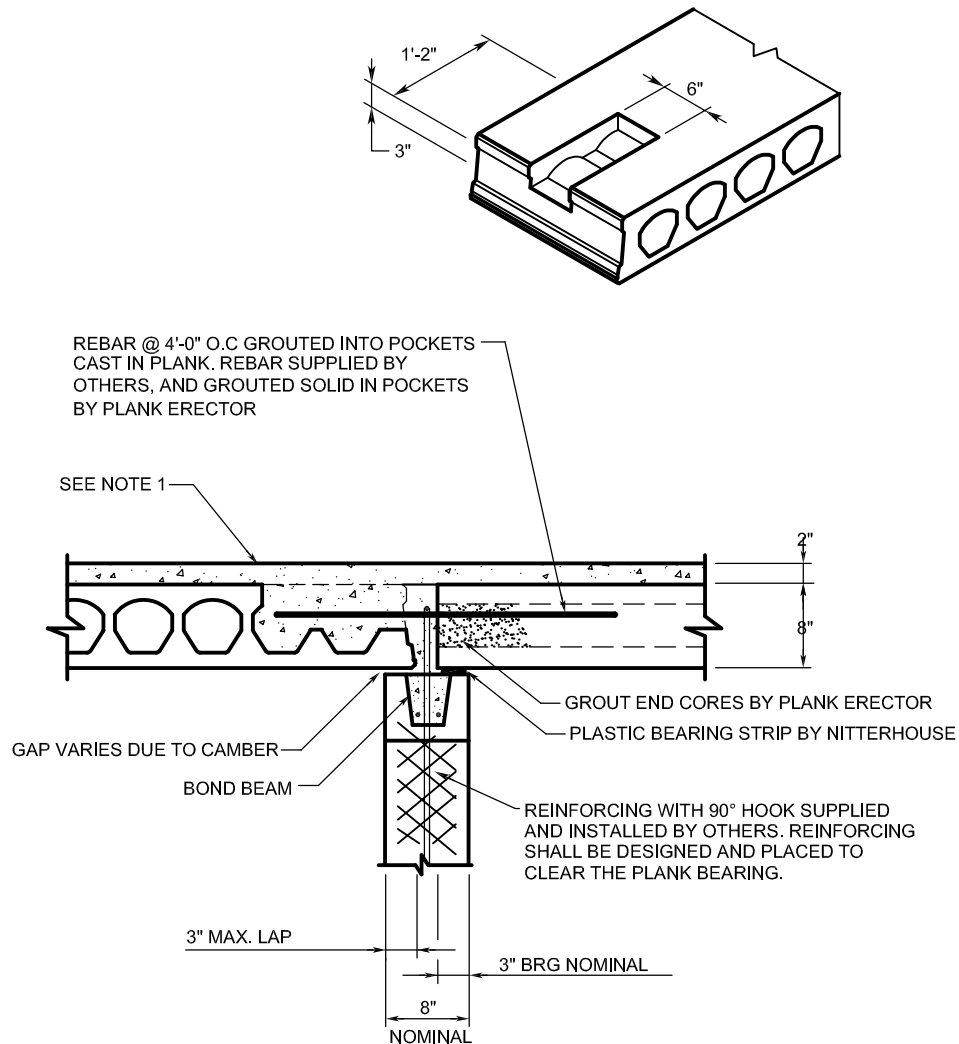
NOTE: FOR LIGHTER LOADS DRILL-INS AND POWDER ACTIVATED FASTENERS CAN BE USED WITH A MAXIMUM DEPTH OF 1".

b (in.)	t (in.)	Pmax
2"	3/8"	710#
3"	3/8"	890#
4"	3/8"	1130#
5"	3/8"	1500#



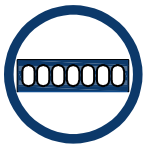
# NICORE CONNECTION DETAIL

## DETAIL OF INTERIOR MASONRY WALL



### NOTES:

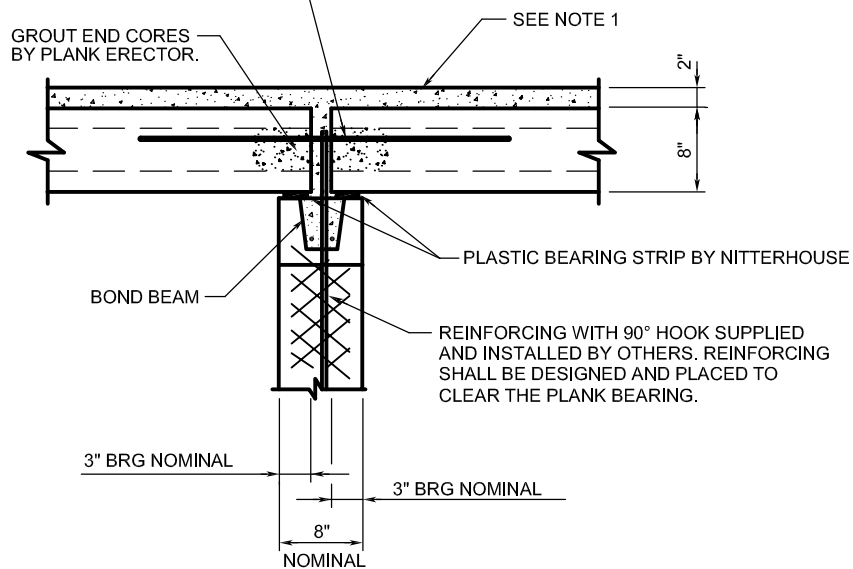
1. NITTERHOUSE WILL PROVIDE A BROOMED FINISH IN ORDER TO CREATE A COMPOSITE TOPPING. C.I.P. TOPPING BY OTHERS IS TO BE 3,000 PSI. (NORMAL WEIGHT CONCRETE).
2. THE DESIGN OF CONNECTIONS FOR HOLLOW CORE PLANK TO OTHER BUILDING COMPONENTS IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD, SINCE THEY ARE PART OF THE GLOBAL DESIGN OF THE STRUCTURE.



# NICORE CONNECTION DETAIL

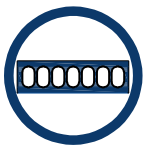
## DETAIL OF BEARING ON INTERIOR WALL

#4 MAX. SIZE REBAR GROUDED SOLID @ GROUT KEY OR CORE (I.E. 4'-0" O.C. MAX), SUPPLIED BY OTHERS, AND INSTALLED BY PLANK ERECTOR (SEE NOTE 3)



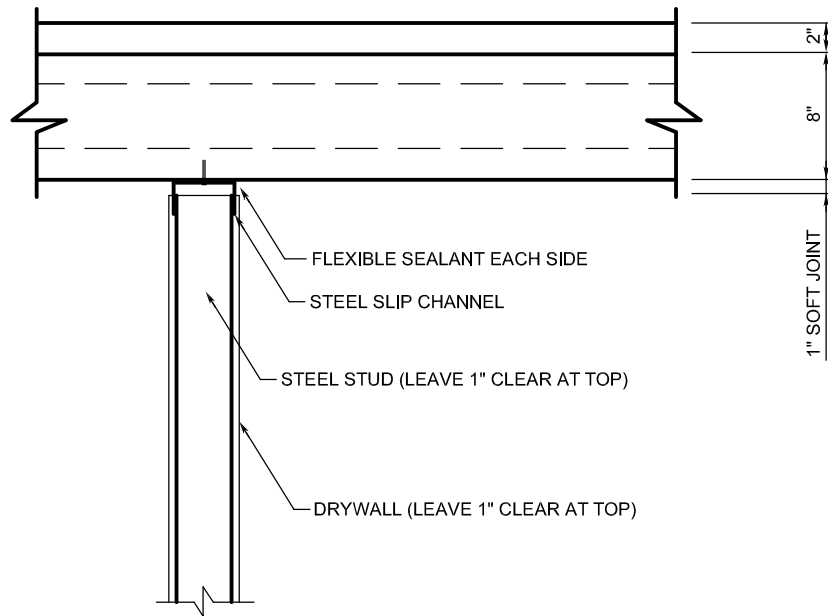
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3. IF GROUT KEYS DO NOT ALIGN, BREAK OUT TOP OF CORE IN PLANK AND GROUT REBAR IN CORE/GROUT KEY FOR FULL LENGTH OF REBAR. ALSO SEE GENERAL NOTE 26 FOR OSHA SILICA REGULATIONS.



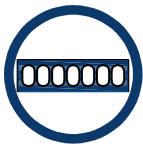
# NICORE CONNECTION DETAIL

## SOFT JOINT AT NON-BEARING PARTITION WALL



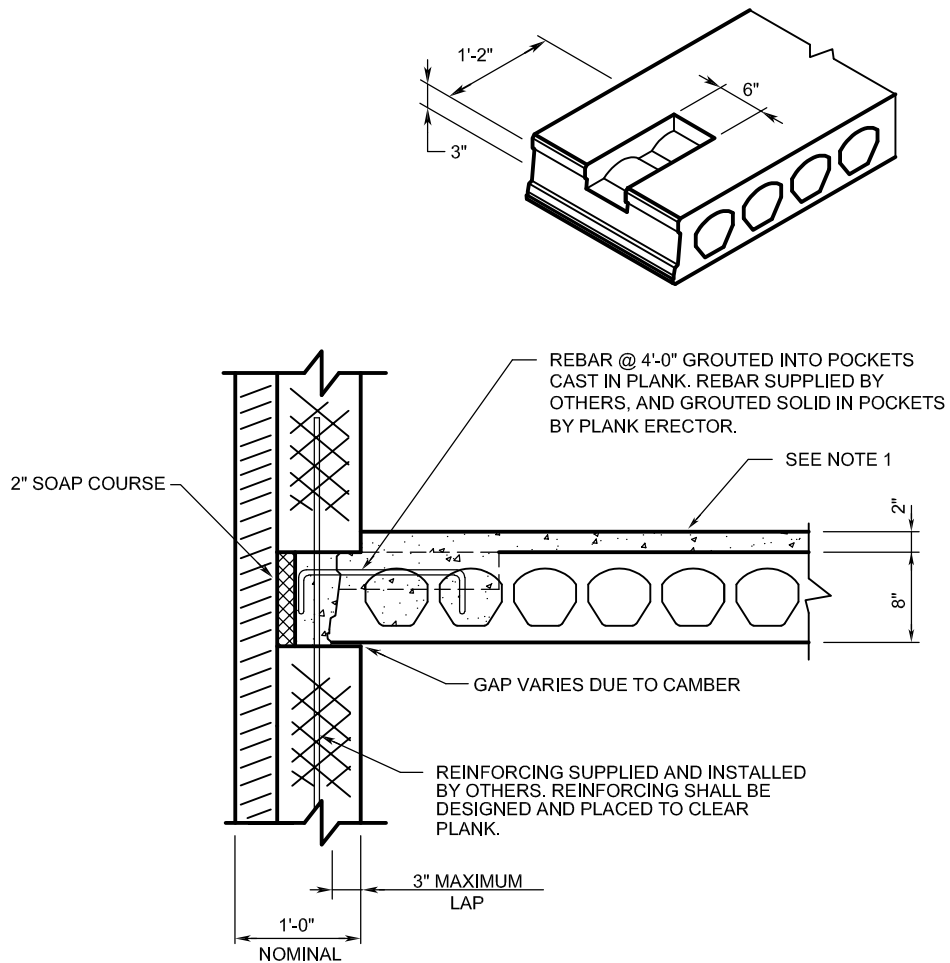
### NOTES:

1. 1" CLEARANCE (SOFT JOINT) SHALL BE PROVIDED ABOVE NON-LOADBEARING PARTITIONS TO ALLOW FOR DEFLECTION OF THE HOLLOW CORE PLANK.



# NICORE CONNECTION DETAIL

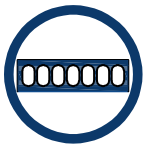
## DETAIL OF SIDE LAP AT EXTERIOR WALL



### NOTES:

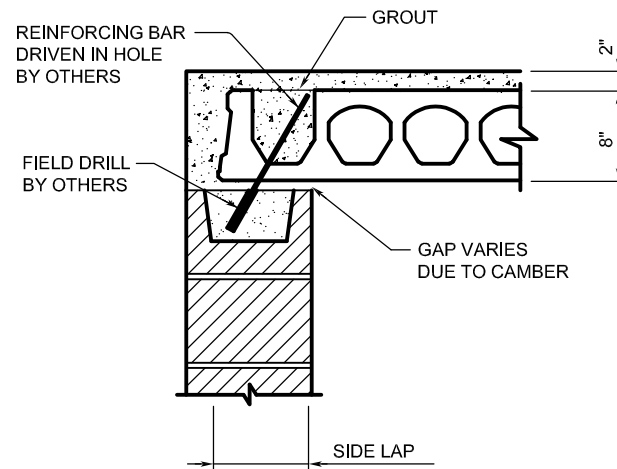
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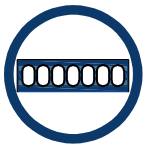
# NICORE CONNECTION DETAIL

## DETAIL OF SIDE LAP AT EXTERIOR WALL



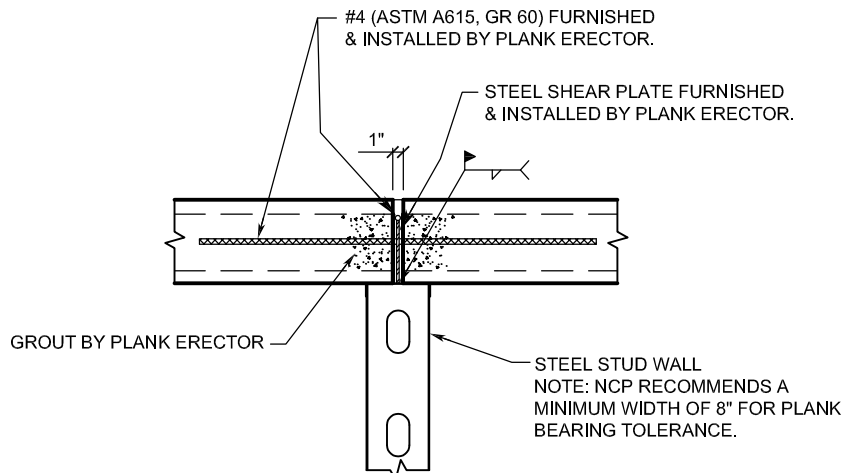
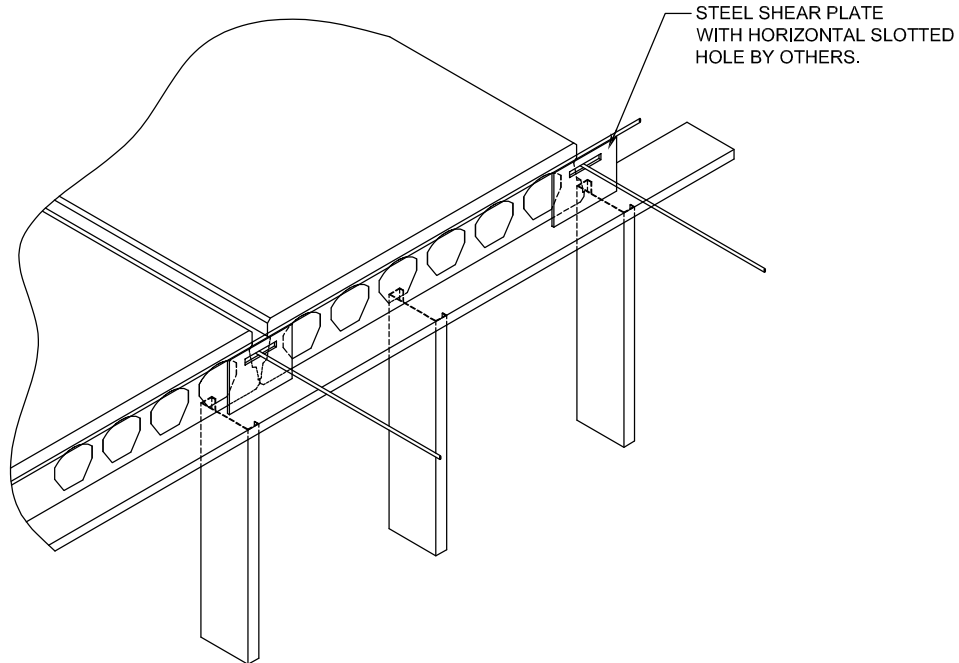
### NOTES:

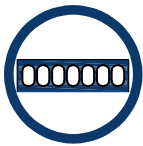
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# NICORE CONNECTION DETAIL

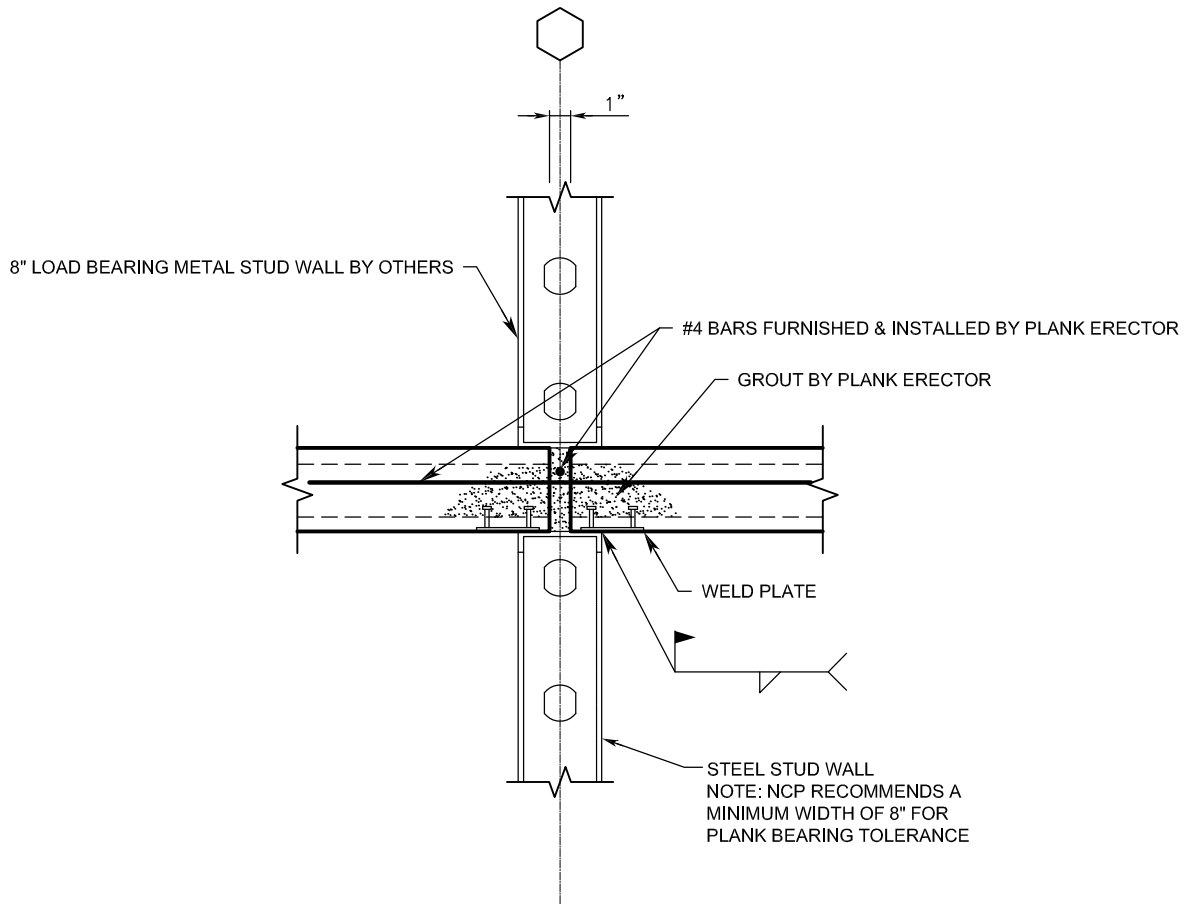
## BEARING ON STEEL STUD WALL





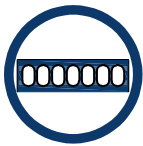
# NICORE CONNECTION DETAIL

## BEARING ON STEEL STUD WALL WITH WELD PLATE BRACING



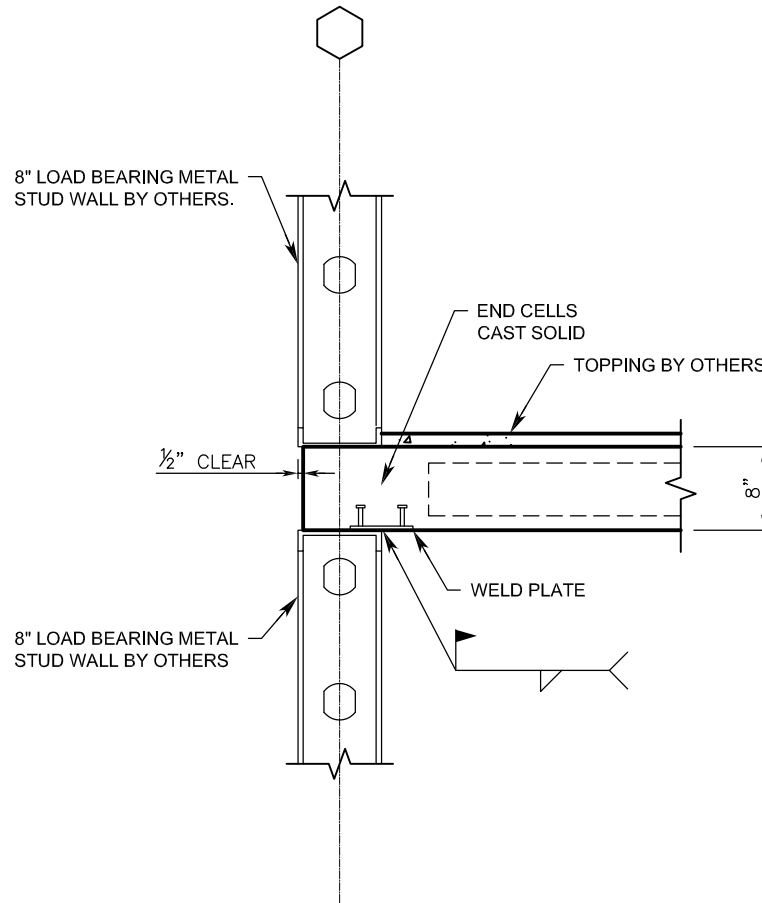
### NOTES:

1. WELD PLATES ARE FOR BRACING THE STEEL STUD WALLS AND FOR TRANSFERRING DIAPHRAGM FORCES. THEY ARE NOT TO HOLD THE PLANKS ON THE STUD WALLS. THE CONTRACT DRAWINGS SHALL INDICATE THE REQUIRED SPACING IN 4'-0" INCREMENTS.



# NICORE CONNECTION DETAIL

## BEARING ON STEEL STUD END WALL WITH WELD PLATE BRACING



### NOTES:

1. WELD PLATES ARE FOR BRACING THE STEEL STUD WALLS AND FOR TRANSFERRING DIAPHRAGM FORCES. THEY ARE NOT TO HOLD THE PLANKS ON THE STUD WALLS. THE CONTRACT DRAWINGS SHALL INDICATE THE REQUIRED SPACING IN 4'-0" INCREMENTS.