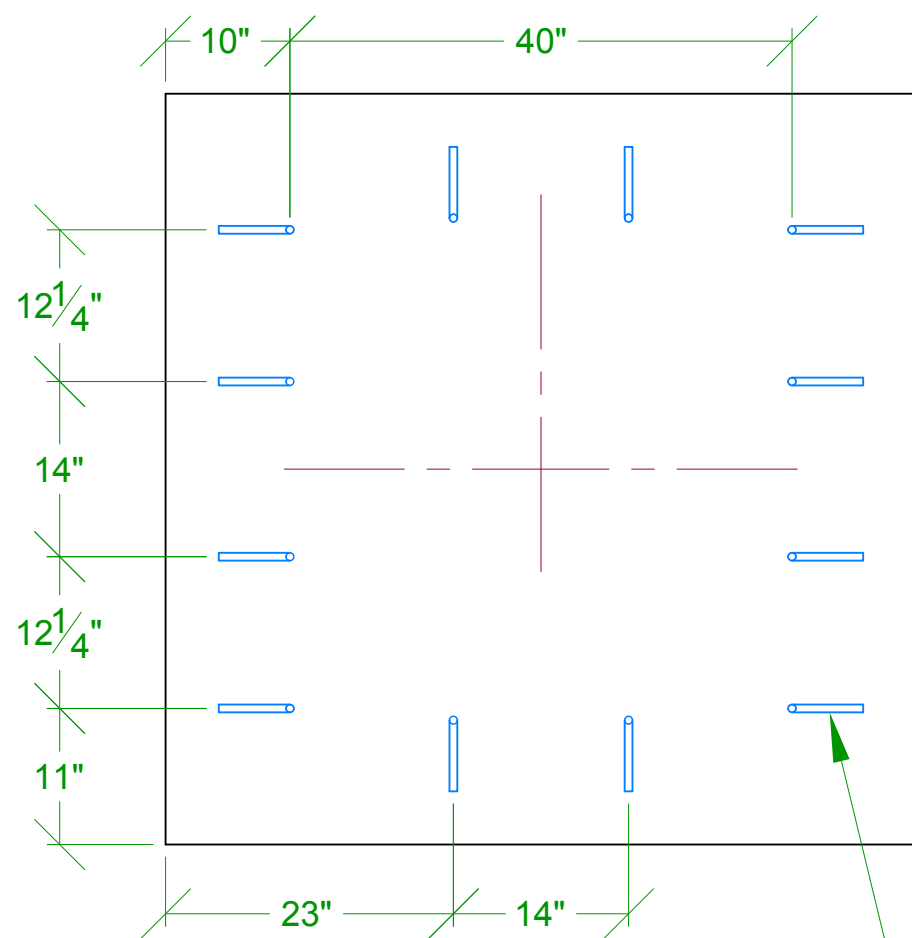


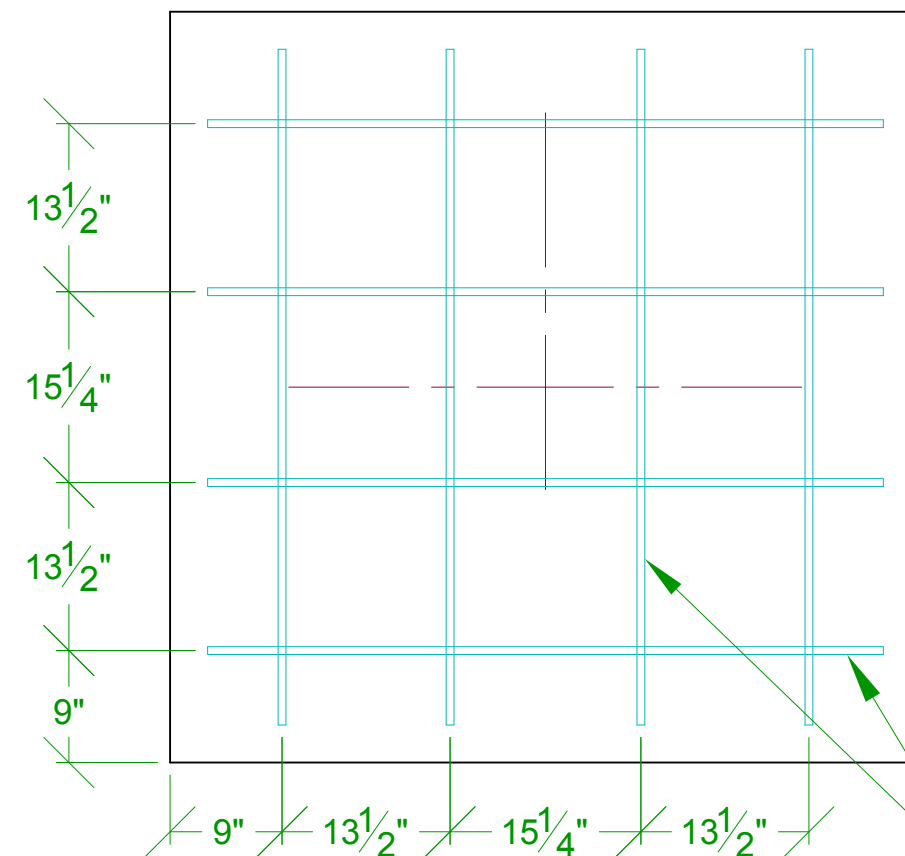
**REINFORCEMENT PLAN**

SCALE: NTS



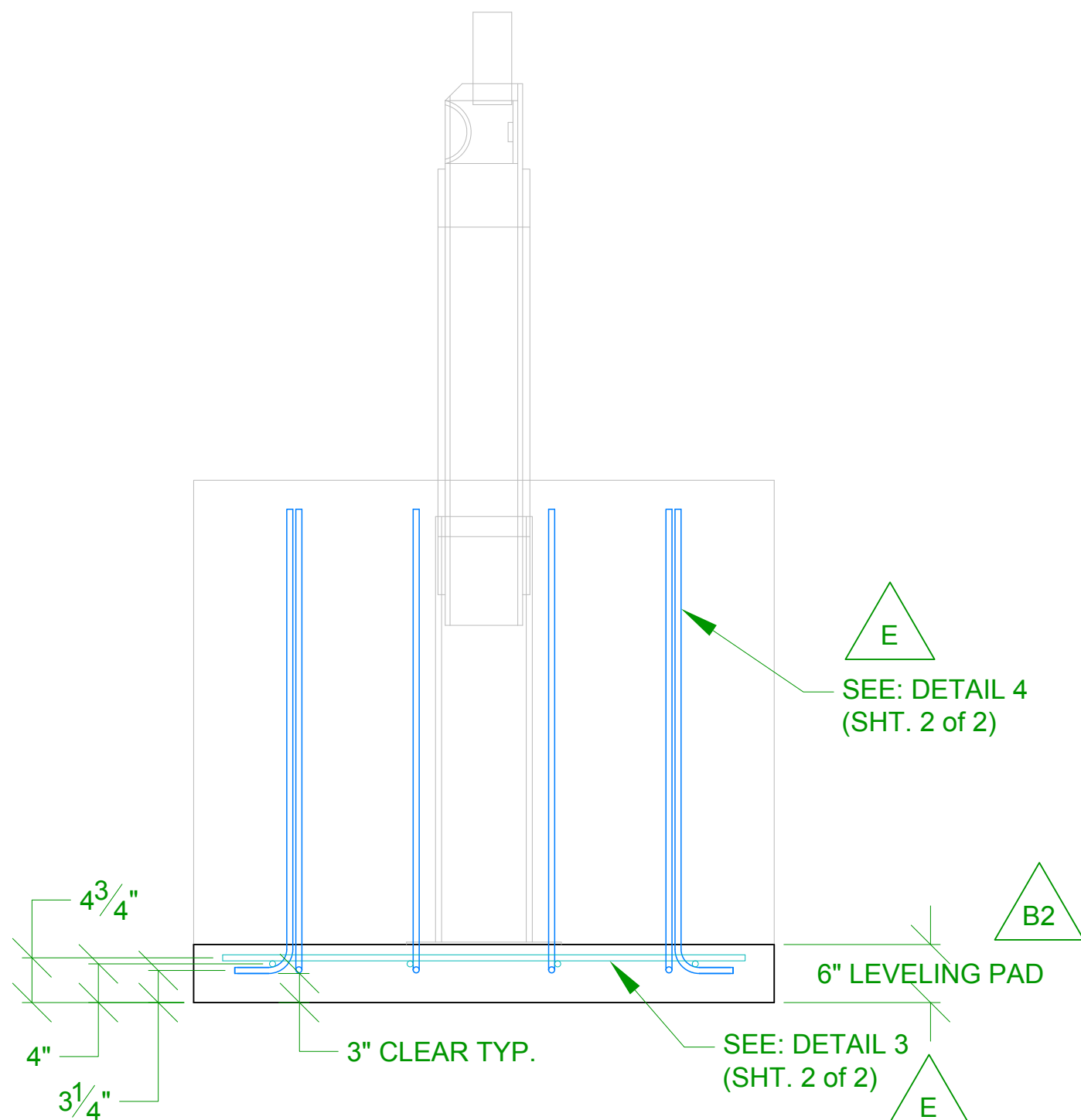
**LEVELING PAD - 90° LEGS**

SCALE: NTS  
(PLACEMENT OF 90° LEGS)



**LEVELING PAD - # REBAR**

SCALE: NTS  
APPROXIMATE LOCATION OF #5 REBAR  
IN BOTH DIRECTIONS



**LEVELING PAD  
REINFORCEMENT PLAN SECTION**

SCALE: NTS

PER: ASTM 2656-07, SPECIFICALLY 7.2.2;  
THE FOUNDATION SHALL BE POURED ON UNDISTURBED SOIL, OR CONTROLLED AND COMPACTED FILL TO A DENSITY OF NOT LESS THAN 90% MAXIMUM DRY DENSITY IN ACCORDANCE WITH TEST METHODS D1556 AND D2922 AND AASHTO METHOD OF TEST T099.

SIDES OF FOUNDATION SHALL BE FORMED IN EXCAVATED MAT'L., IF POSSIBLE. OTHERWISE, SIDEWALLS SHALL BE FORMED WITH INDICATED DIMENSIONS. ALL BACKFILL MATERIAL AND REPLACEMENT METHODS MUST COMPLY WITH STATED CODES LISTED ABOVE.

INSTALL REBAR ITEMS 3 AND 4 WITH FIRST 6" CONC. LEVELING PAD POUR, BEFORE INSERTING THE STEEL BOLSTER ASSEMBLY AND FINAL REBAR.

ALL CONCRETE SHALL BE A CONTROLLED STONE GRAVEL MIX PRODUCED, TESTED, TRANSPORTED, PROTECTED, AND PLACED IN ACCORDANCE WITH THE LATEST AMERICAN CONCRETE INSTITUTE RECOMMENDATIONS. FOLLOW ACI RECOMMENDATIONS FOR CURING AND MIX DESIGN WITH CONSIDERATION FOR CLIMATE AND CONDITIONS.

OPTIMUM CONCRETE MIX: 4000 PSI COMPRESSIVE STRENGTH.  
MINIMUM 600 LB./CU.YD. CEMENT CONTENT  
MAXIMUM 0.50 WATER CONTENT.  
6% AIR CONTENT  
4" SLUMP

REINFORCING STEEL SHALL BE DEFORMED BARS (ASTM A-615) WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI.

CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".

Rev.:	Revisions:	Date:	Drn. By:	Ckd. By:	Rev.:	Revisions:	Date:	Drn. By:	Ckd. By:	<b>NOTICE</b> THE INFORMATION CONTAINED ON THIS DOCUMENT IS CONFIDENTIAL. ANY DISSEMINATION, UNAPPROVED DISCLOSURE OR COPYING OF THIS INFORMATION IS STRICTLY PROHIBITED.  UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES ANGLES ± 1° X/X ± 1/32, .XX ± .01, .XXX ± .005	Date:	12/27/12
					B3	Changed the rebar style	12/27/12	SLD	KLL		<b>DO NOT SCALE</b> THE INFORMATION CONTAINED ON THIS DOCUMENT IS CONFIDENTIAL. ANY DISSEMINATION, UNAPPROVED DISCLOSURE OR COPYING OF THIS INFORMATION IS STRICTLY PROHIBITED.	Drn. By: SLD
D	ADDED NOTE THAT ALL REBAR IS TO BE #5	12/12/13	MKS	DMR	B2	Changed leveling pad from 3" to 6"	08/24/12	MKS	DMR		Ckd. By: KLL	
C1	Changed the rebar qty. from 8 to 4 per ECR 010-013	01/28/13	SLD	KLL	B1	Changed pad shape	08/24/12	MKS	DMR		Dwg.: M-30 Foundation / Pad Details - YokeEnd.dwg	
C	Changed the rebar qty from 4 to 3 per ECR 010-013	01/28/13	SLD	KLL	A	Revised - Engineered K4 Crash Foundation Details	12/22/08	MKS	DMR		Title: M-30 SHIELD Crash Gate Foundation	



PER: ASTM 2656-07, SPECIFICALLY 7.2.2;  
 THE FOUNDATION SHALL BE POURED ON UNDISTURBED SOIL, OR CONTROLLED AND COMPACTED FILL TO A DENSITY OF NOT LESS THAN 90% MAXIMUM DRY DENSITY IN ACCORDANCE WITH TEST METHODS D1556 AND D2922 AND AASHTO METHOD OF TEST T099.

SIDES OF FOUNDATION SHALL BE FORMED IN EXCAVATED MAT'L., IF POSSIBLE. OTHERWISE, SIDEWALLS SHALL BE FORMED WITH INDICATED DIMENSIONS. ALL BACKFILL MATERIAL AND REPLACEMENT METHODS MUST COMPLY WITH STATED CODES LISTED ABOVE.

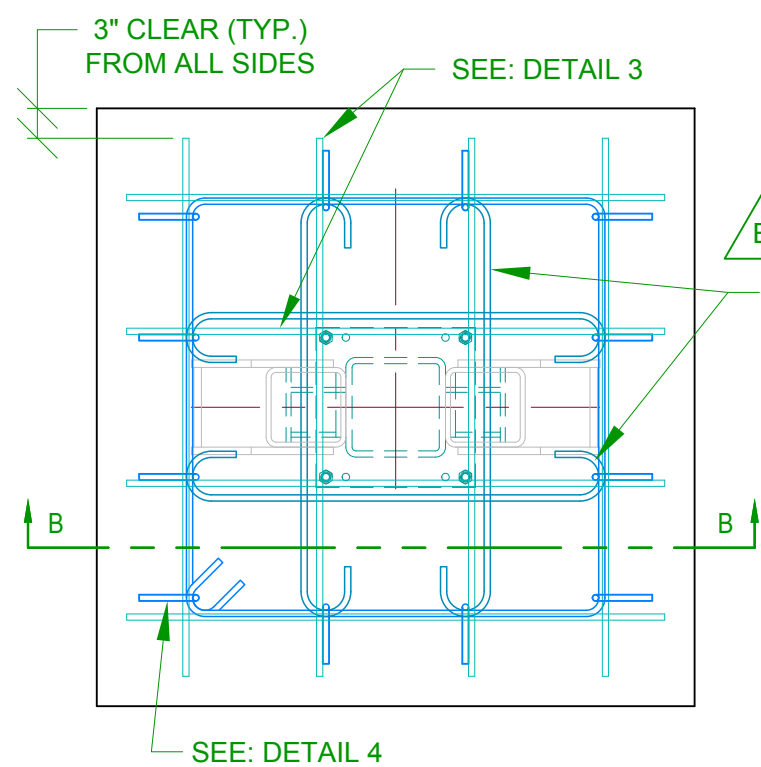
INSTALL REBAR ITEMS 5, 6, AND 7 WITH FIRST 6" CONC. LEVELING PAD POUR, BEFORE INSERTING THE STEEL BOLSTER ASSEMBLY AND FINAL REBAR.

ALL CONCRETE SHALL BE A CONTROLLED STONE GRAVEL MIX PRODUCED, TESTED, TRANSPORTED, PROTECTED, AND PLACED IN ACCORDANCE WITH THE LATEST AMERICAN CONCRETE INSTITUTE RECOMMENDATIONS. FOLLOW ACI RECOMMENDATIONS FOR CURING AND MIX DESIGN WITH CONSIDERATION FOR CLIMATE AND CONDITIONS.

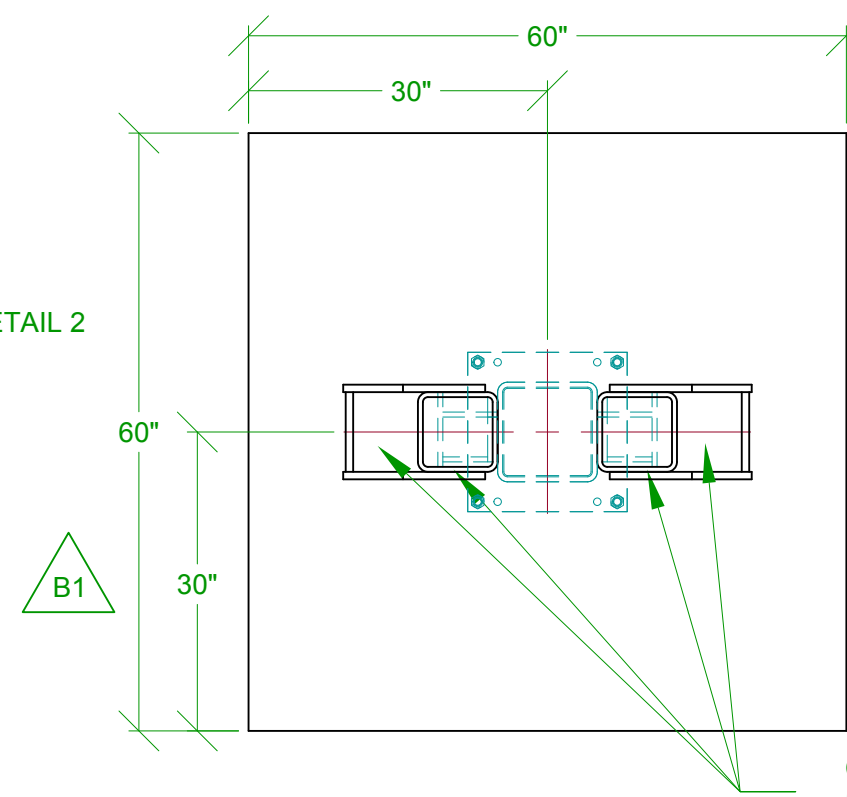
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 6% AIR CONTENT  
 4" SLUMP

REINFORCING STEEL SHALL BE DEFORMED BARS (ASTM A-615) WITH A MINIMUM YIELD STRENGTH OF 60,000 PSI.

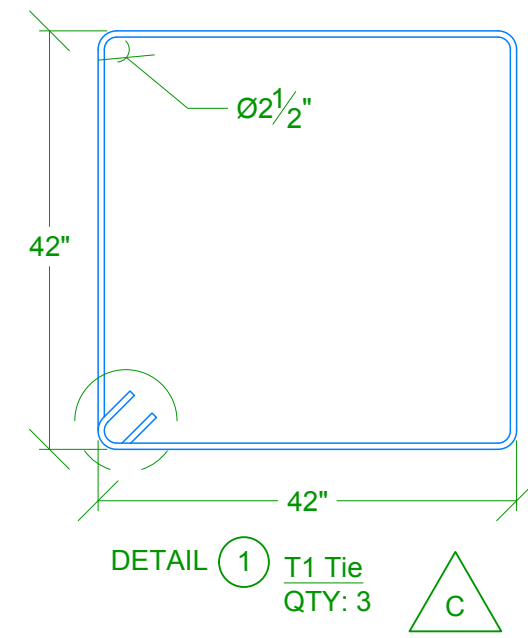
CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".



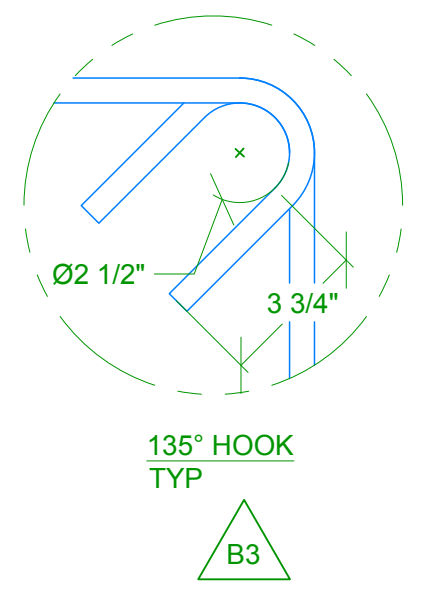
**REINFORCEMENT PLAN**  
 SCALE: NTS



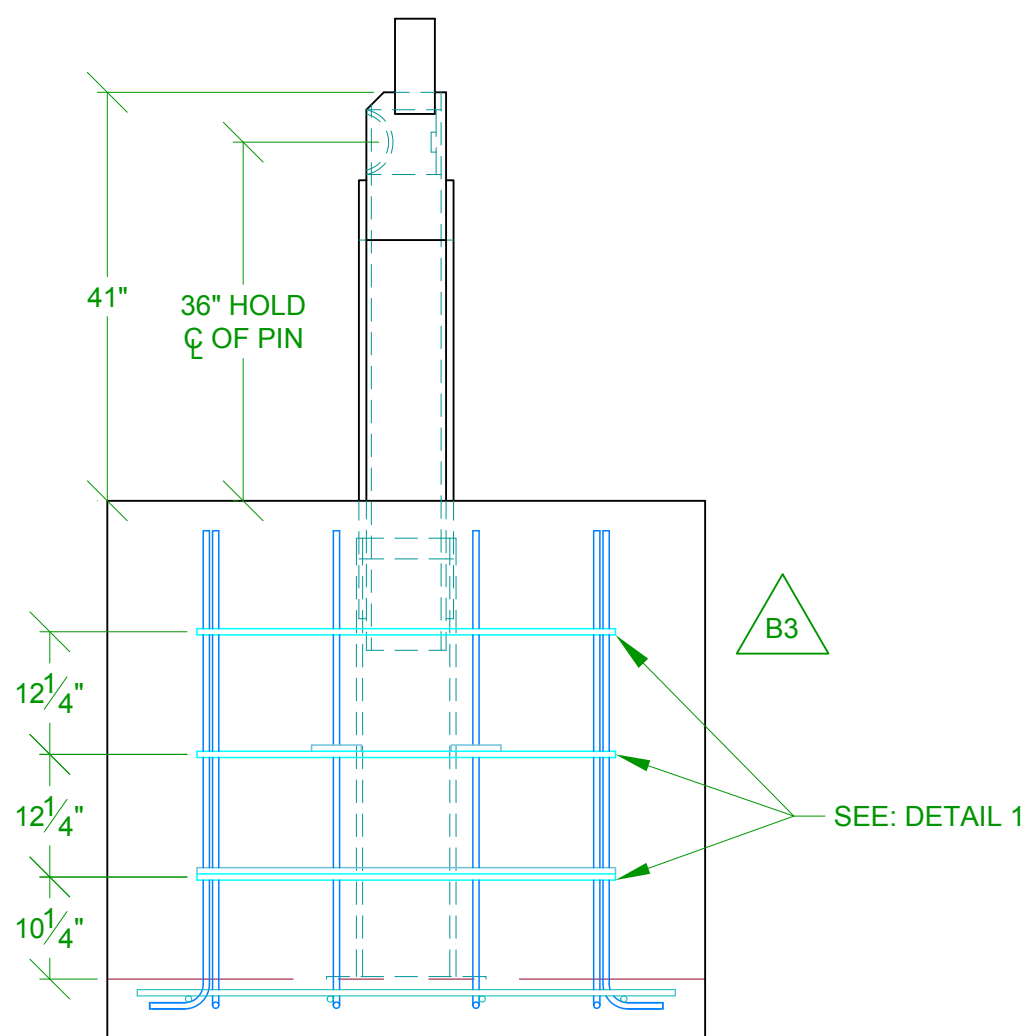
**PLAN VIEW**  
 SCALE: NTS



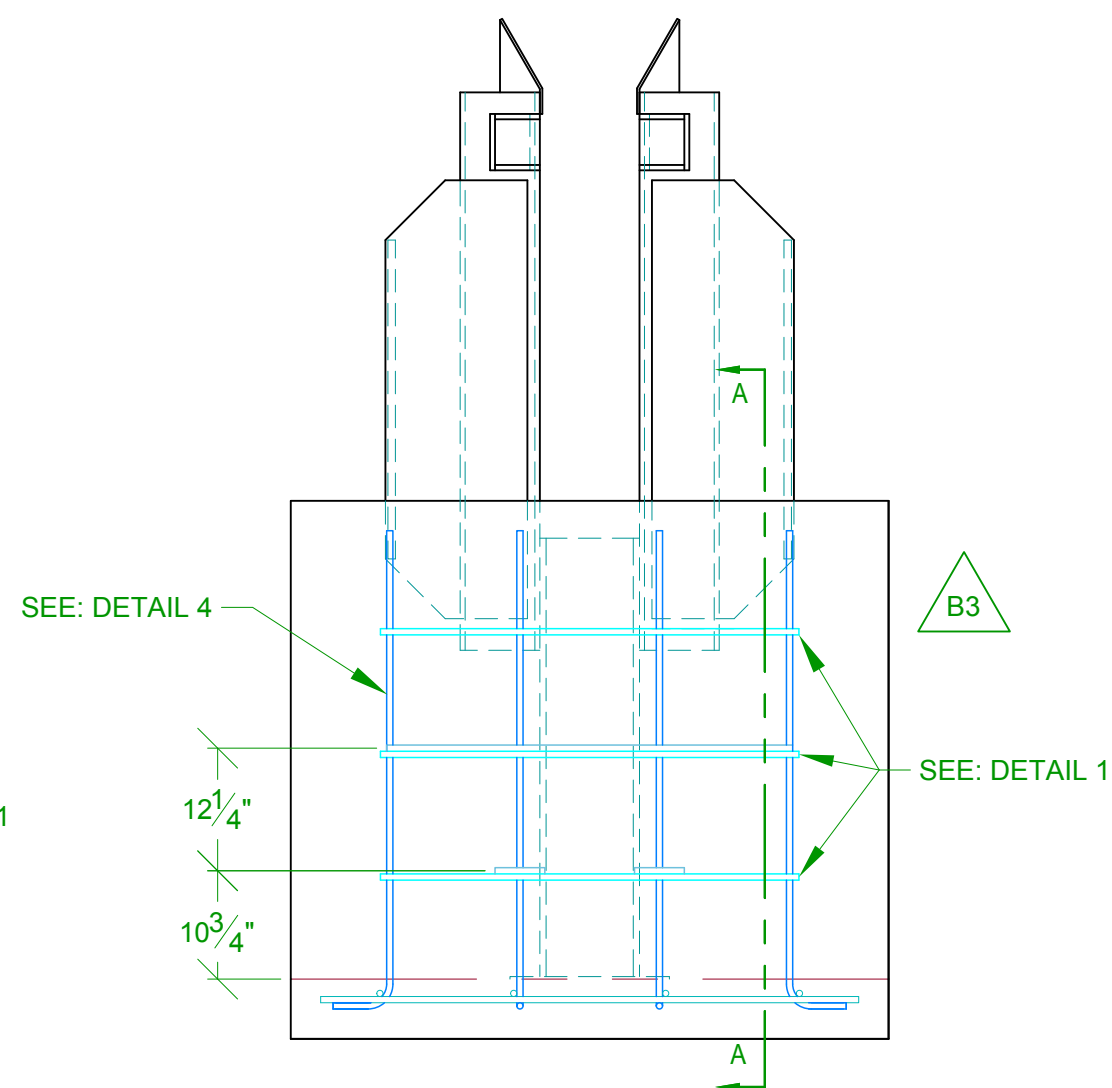
DETAIL 1 T1 Tie QTY: 3



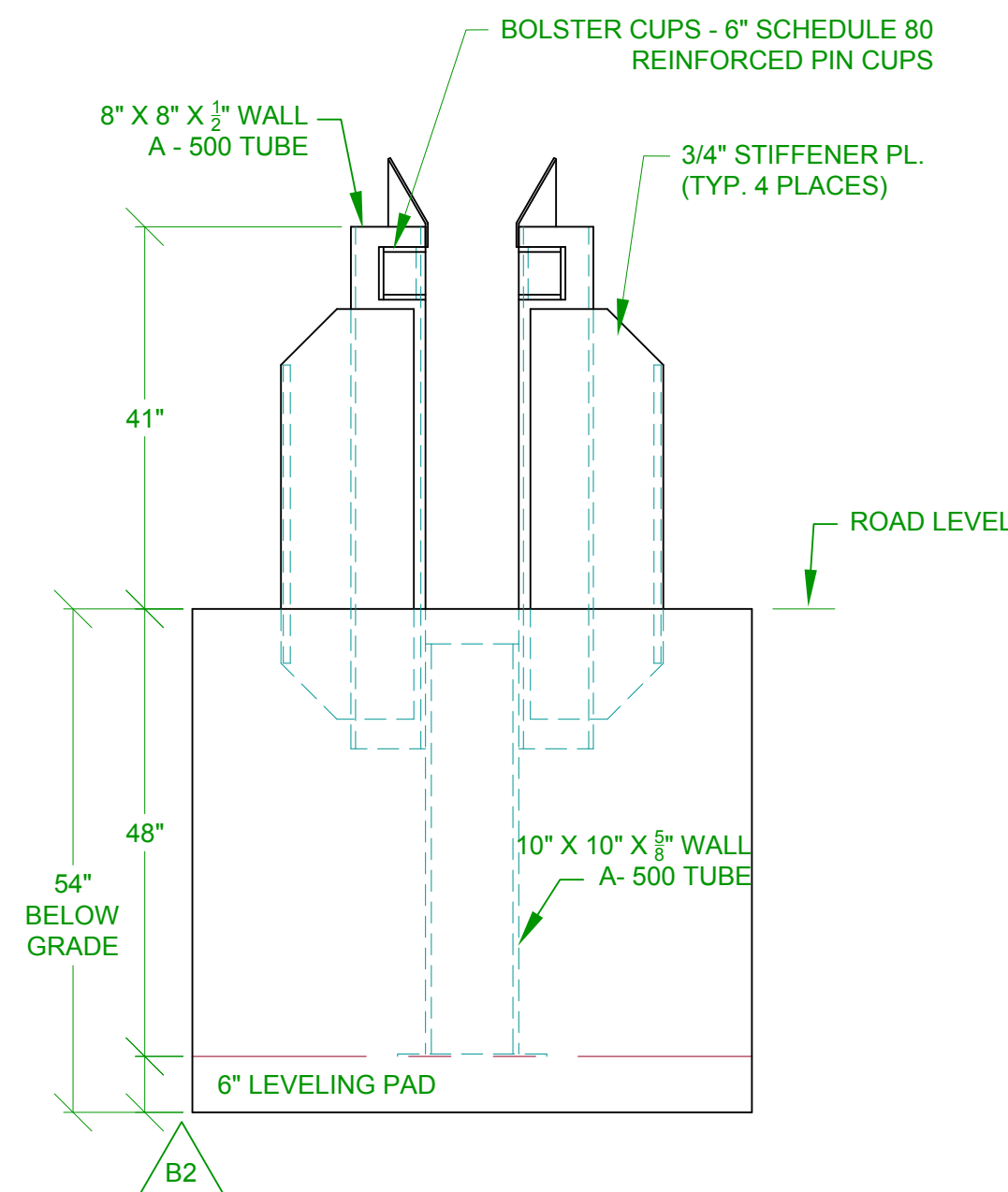
135° HOOK TYP



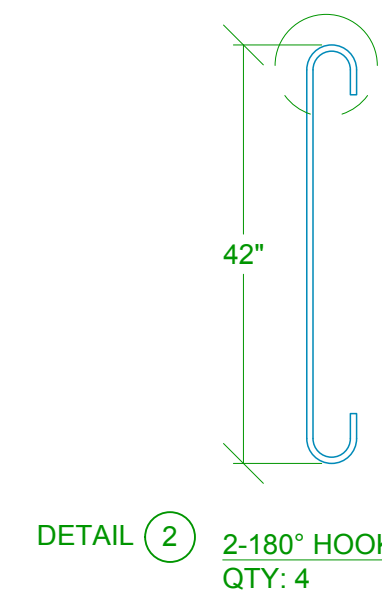
**REINFORCEMENT SECTION "A-A"**  
 SCALE: NTS



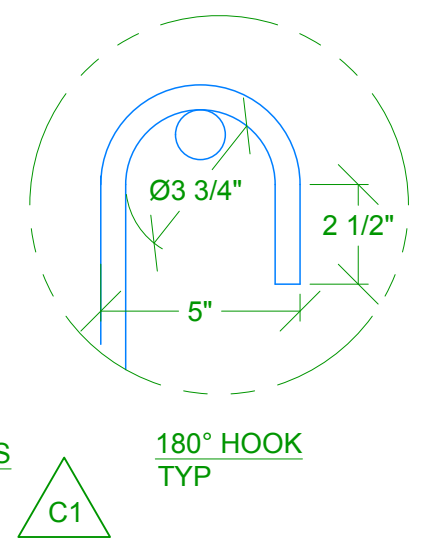
**REINFORCEMENT SECTION "B-B"**  
 SCALE: NTS



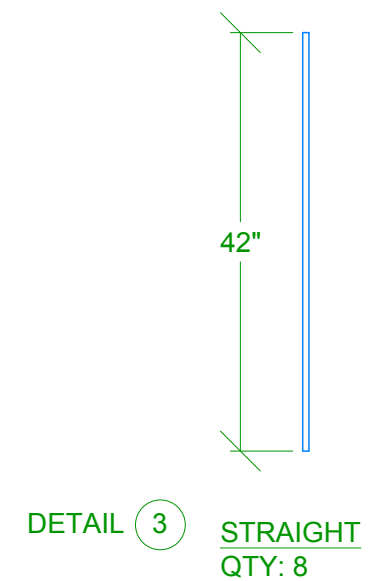
**ELEVATION VIEW**  
 SCALE: NTS



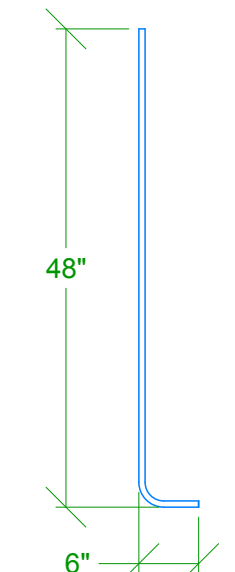
DETAIL 2 2-180° HOOKS QTY: 4



180° HOOK TYP



DETAIL 3 STRAIGHT QTY: 8




DETAIL 4 90° LEG QTY: 12

NOTE: ALL REBAR TO BE #5

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C1	Changed the rebar qty. from 8 to 4 per ECR 010-013	01/28/13	SLD	KLL	B1	Changed pad shape	08/24/12	MKS	DMR
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 X/X ± 1/32, XX ± .01, XXX ± .005

Date: 12/27/12  
 Drn. By: SLD  
 Ckd. By: KLL  
 Dwg.: M-30 FOUNDATION-YokeEnd.dwg  
 Title: M-30 SHIELD Crash Gate Foundation



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 Berlin Heights, Ohio  
 FAX (419) 588-3514