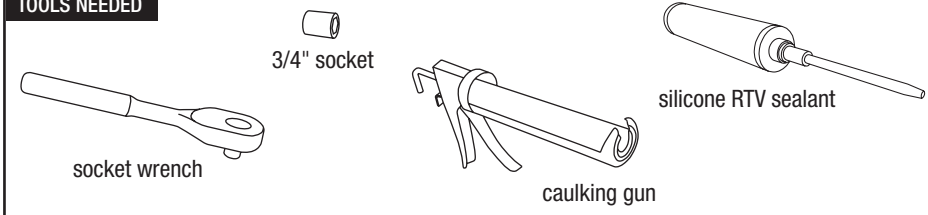
HELIO™ M40/M50-P1 SECURITY BOLLARD, SERIES 1200

SECURITY BOLLARD WIRING & INSTALLATION INSTRUCTIONS

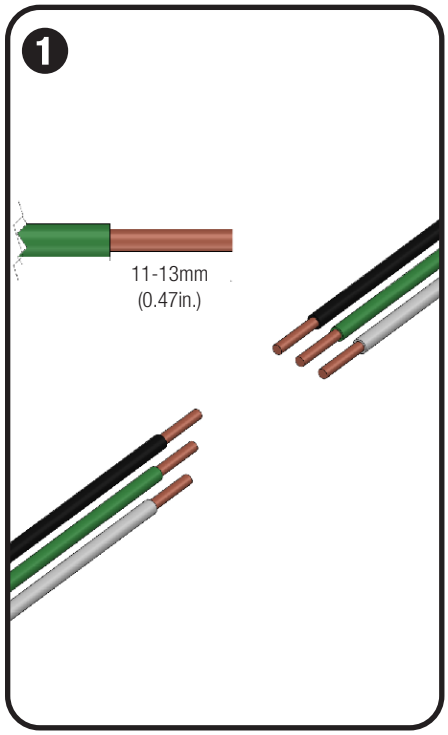
MATERIALS INCLUDED

TOOLS NEEDED



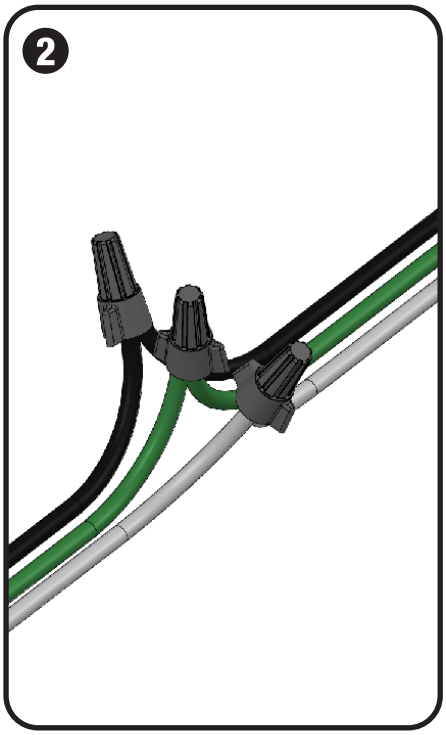
STEP BY STEP

WIRING INSTRUCTIONS FOR ALL ILLUMINATED HELIO BOLLARDS WITH EMBEDDED SECURITY CORES



Locate and prepare wires

- Before proceeding with wiring of luminary, check to ensure that all applicable site wiring and safety codes have been followed.
- Locate wires at base of light fixture.
- Ensure power supply is shut off and circuit being used is isolated.
- Prepare wiring from site junction box and bollard by stripping and removing 11-13mm (.47") of insulation.



Connect wires

- Insert ground (green), neutral (white), and positive (black) wires into provided wire nuts, being sure to match wire color codes from junction box to bollard.
- Tighten wire nuts until exposed wire ends are below bottom of wire nut.
- Inspect all wiring and connections before.

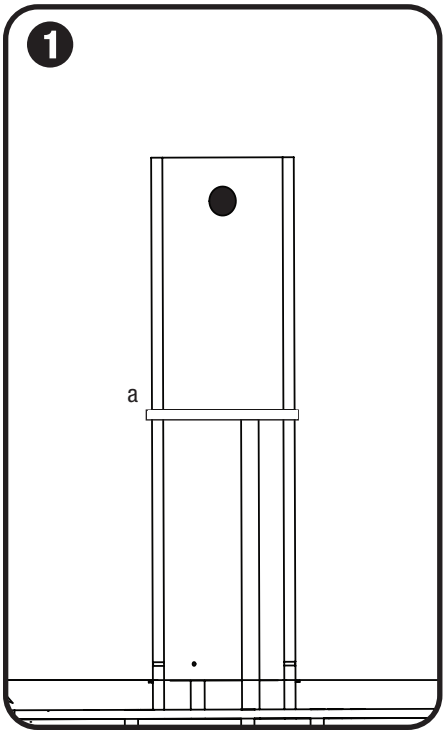
NOTES:

- Installation should be performed only by qualified individuals.
- Wire used should be 22-14 AWG copper conductors.
- Caution: Installation of a surge protector as part of each unit's wiring is recommended. Light fixture rated for 120-277 VAC power.

HELIO™ M40/M50-P1 SECURITY BOLLARD, SERIES 1200

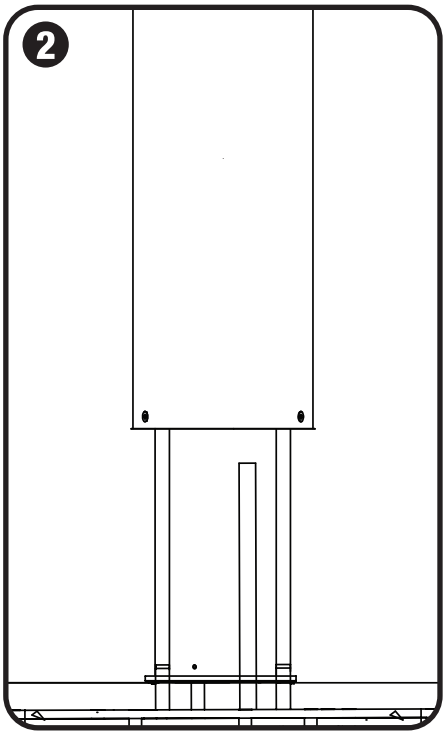
SECURITY BOLLARD WIRING & INSTALLATION INSTRUCTIONS

STEP BY STEP INSTALLATION INSTRUCTIONS FOR ALL HELIO BOLLARDS WITH EMBEDDED SECURITY CORES



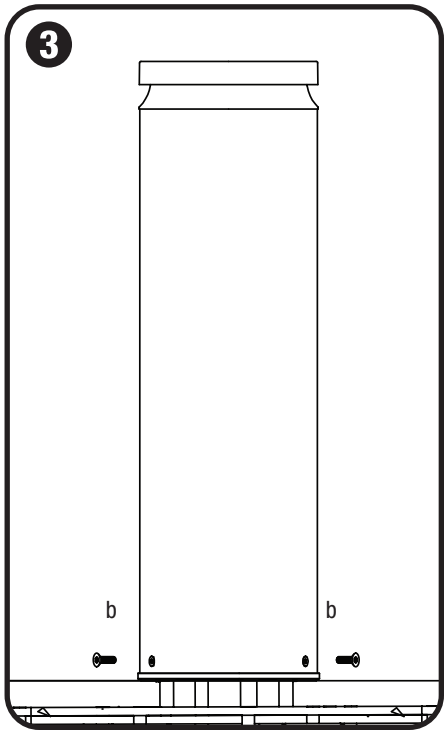
Install trim ring

- Apply a thin bead of waterproof clear silicone to the top of the flange on the security core. Take care not to over apply.
- Slide trim ring (a) over security core and drop down to flange on security core. Press down on trim ring to ensure it is fully seated on the flange.



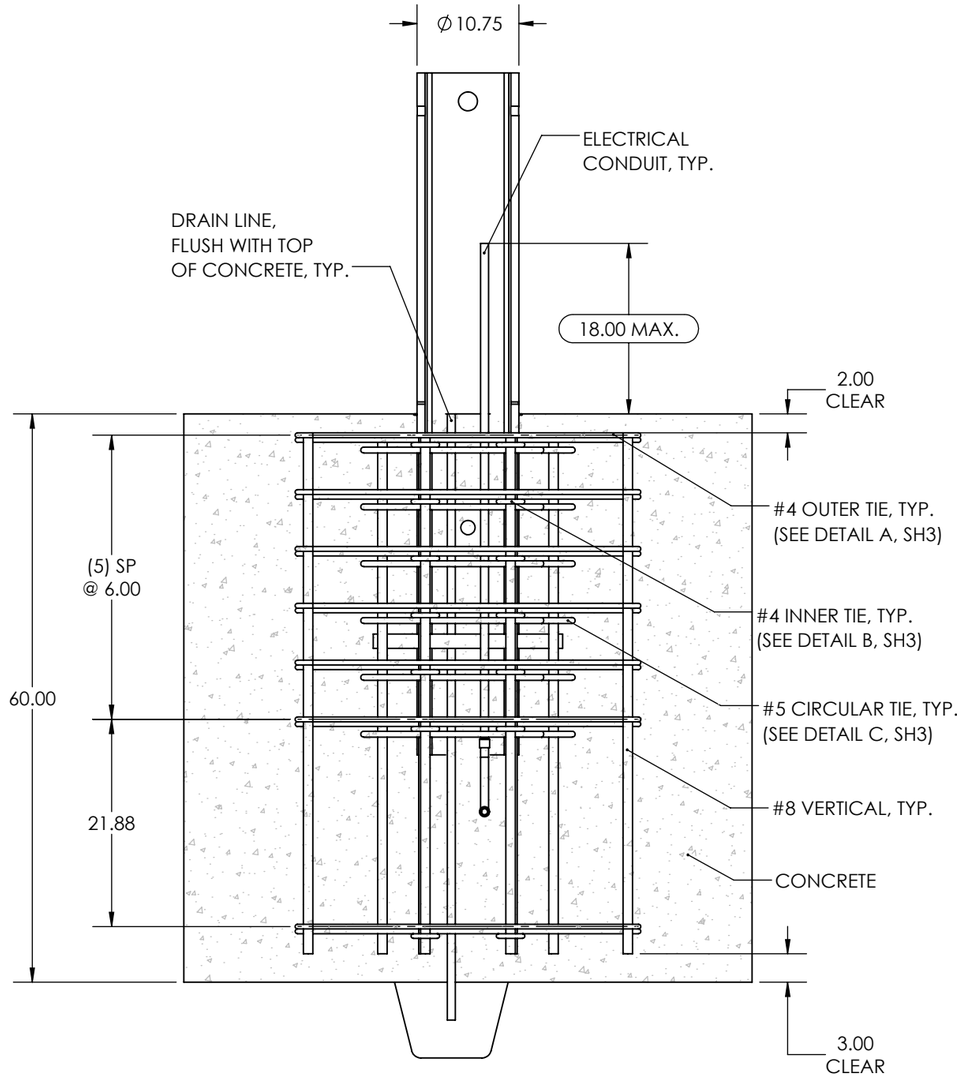
Position bollard over security core

- Inspect security core for moisture. If moisture is present allow to dry before installing bollard. Do not install bollard unless security core is completely dry.
- Slide bollard over security core so that mounting holes in bollard body align with tapped holes in security core.

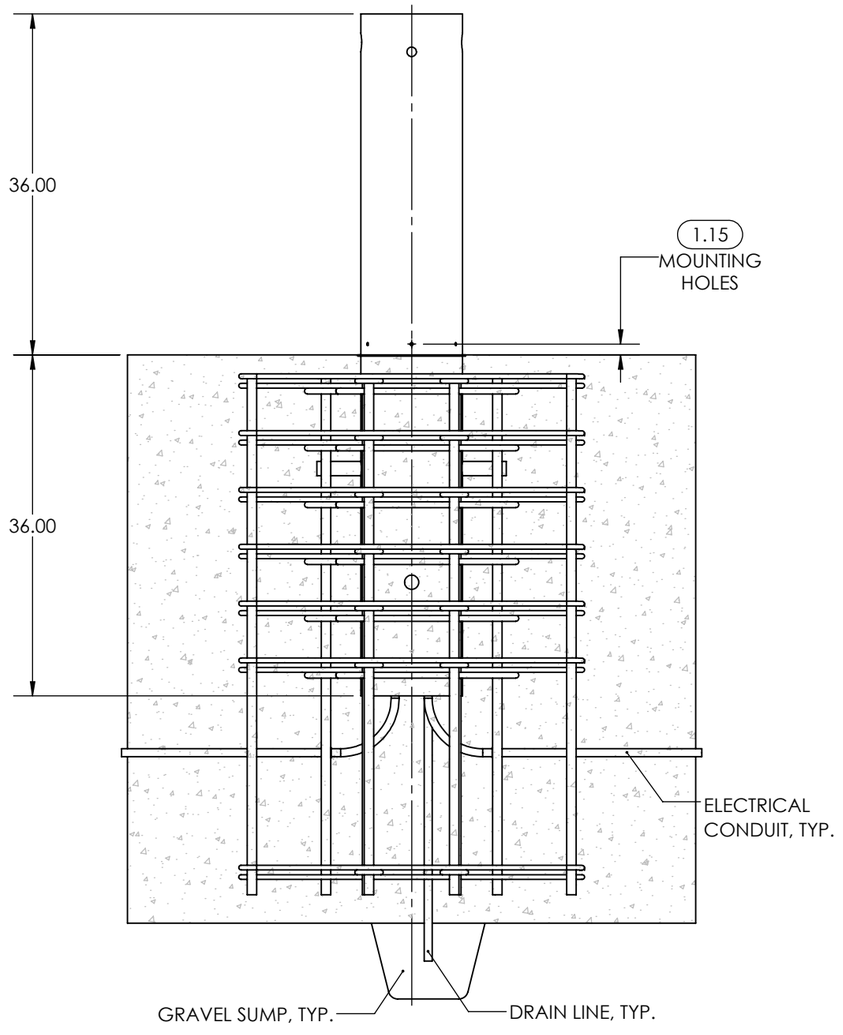


Attach bollard to security core

- Thread 5/16"-18x1" tamper-resistant flat head bolts (b) into each hole.
- Use provided T40 Torx bit for tamper-resistant bolts to tighten all bolts until snug.



END VIEW (PARTIAL SECTION)
SCALE 1 : 16



SIDE VIEW (PARTIAL SECTION)
SCALE 1 : 16

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

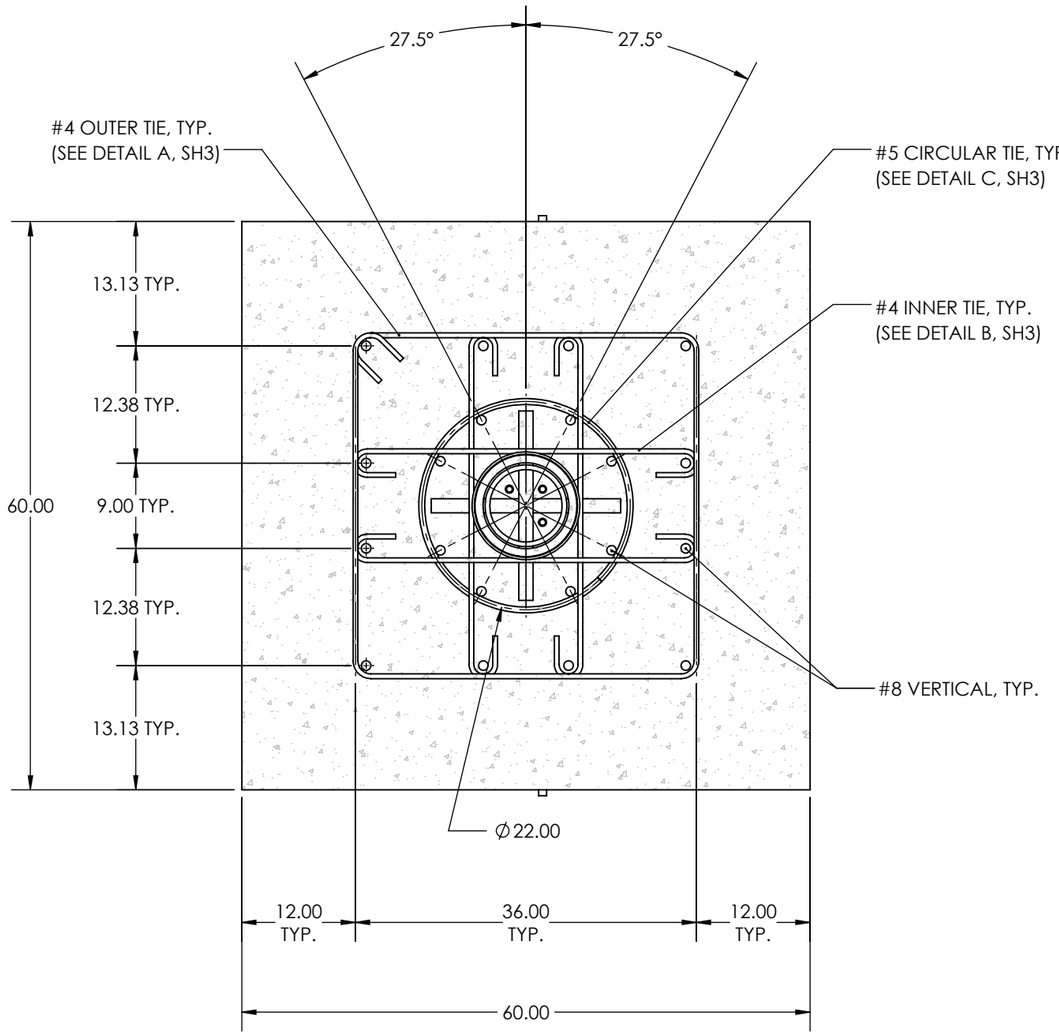
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	RTS	10/27/20
CHK		

DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M40-P1 DEEP SECURITY CORE
INDIVIDUAL FOUNDATION, NO PAVER

SIZE	DWG. NO.	REV	SHEET
B	M40-DP-IND-NP-INSTALL	0	1 OF 3



PLAN VIEW (PARTIAL SECTION)

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

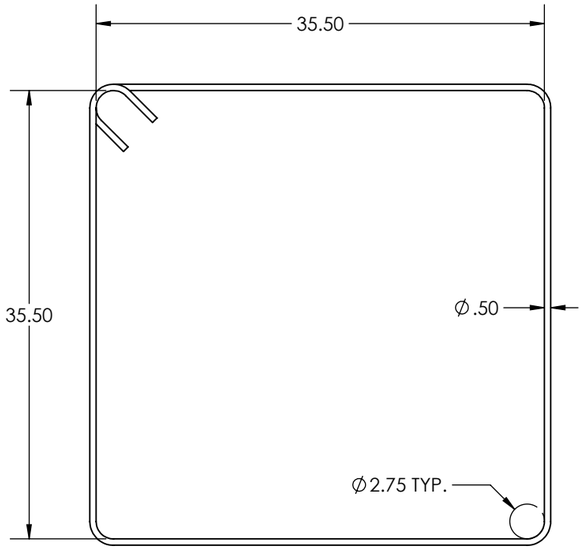
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	RTS	10/27/20
CHK		

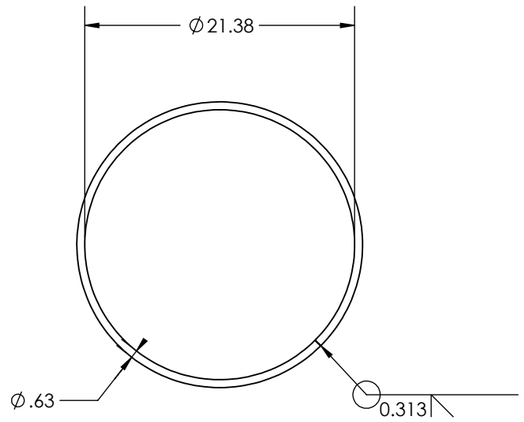
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M40-P1 DEEP SECURITY CORE
INDIVIDUAL FOUNDATION, NO PAVER

SIZE	DWG. NO.	REV	SHEET
B	M40-DP-IND-NP-INSTALL	0	2 OF 3



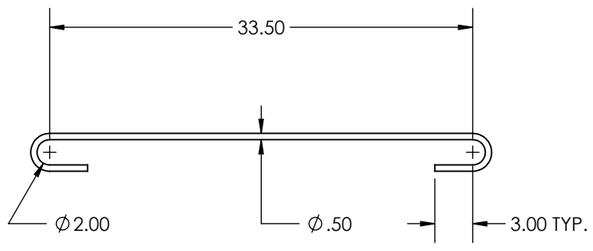
DETAIL A
#4 OUTER TIE, TYP.



DETAIL C
#5 CIRCULAR TIE, TYP.

NOTES:

1. FOOTINGS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOIL OR PROPERLY COMPACTED ENGINEERED FILL ASSUMING A NET BEARING CAPACITY OF 2000 PSF.
2. REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) OF THE AMERICAN CONCRETE INSTITUTE (EDITIONS AS REQUIRED BY GOVERNING CODE).
3. CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH (F'C) OF 5000 PSI UNO.
4. PROVIDE 6% (+/-1.5%) AIR ENTRAINMENT IN CONCRETE EXPOSED TO FREEZE/THAW.
5. DEFORMED BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60; SEE CHART FOR SIZING.
6. REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, OR CHAIRS SHALL BE PROVIDED TO FURNISH SUPPORT FOR SPECIFIED BARS.



DETAIL B
#4 INNER TIE, TYP.

REBAR CHART	
BAR SIZE	**DIAMETER**
#4	Ø 0.500
#5	Ø 0.625
#8	Ø 1.000

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES
THIRD ANGLE PROJECTION

MATERIAL: N/A
FINISH: N/A
WEIGHT: N/A
SCALE: NOT TO SCALE

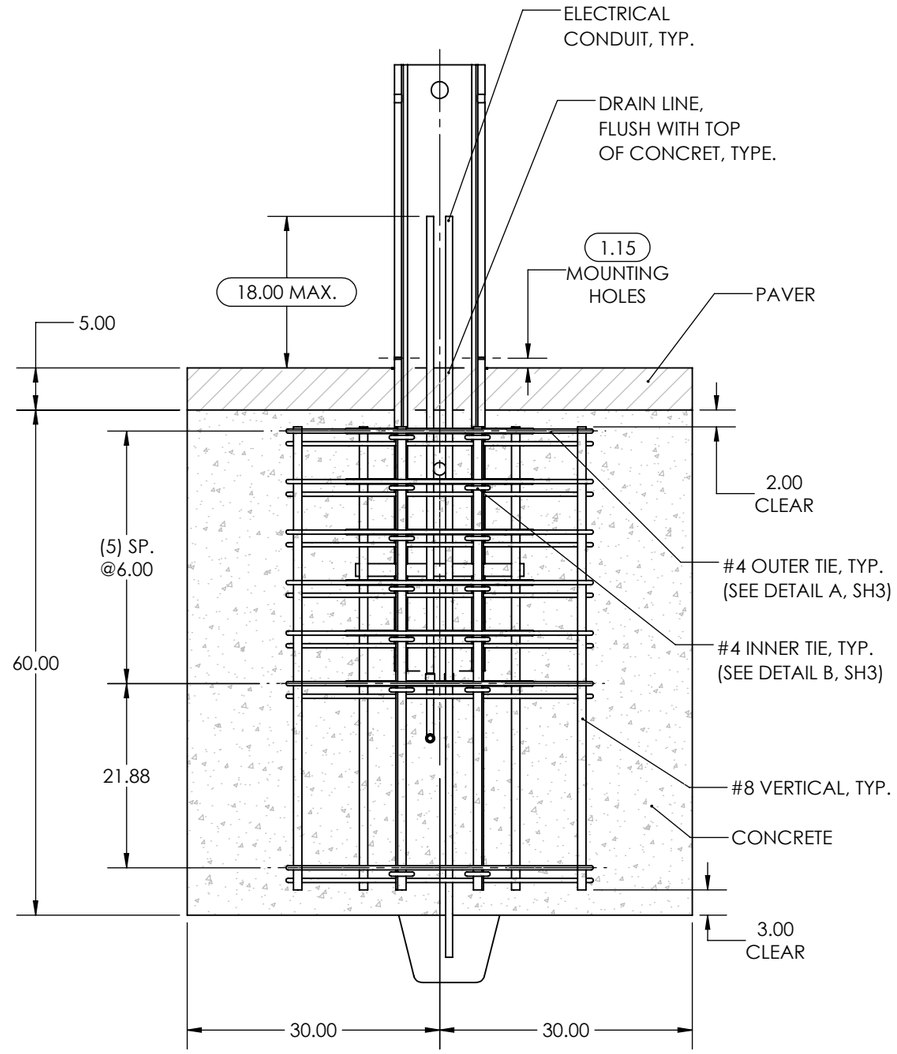
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	RTS	10/27/20
CHK		

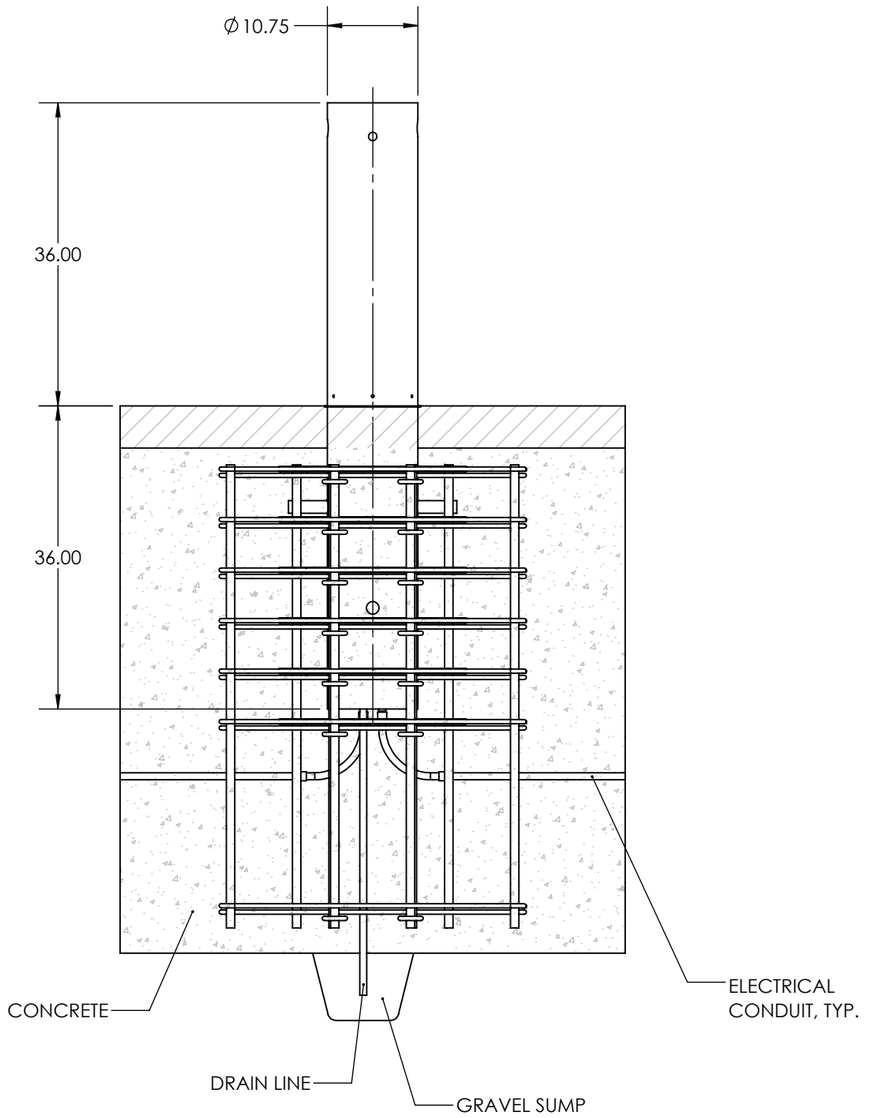
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M40-P1 DEEP SECURITY CORE
INDIVIDUAL FOUNDATION, NO PAVER

SIZE	DWG. NO.	REV	SHEET
B	M40-DP-IND-NP-INSTALL	0	3 OF 3



END VIEW (PARTIAL SECTION)



SIDE VIEW (PARTIAL SECTION)

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 385-4715

	NAME	DATE
DWN	YAF	07/11/2023
CHK		

DO NOT SCALE DRAWING

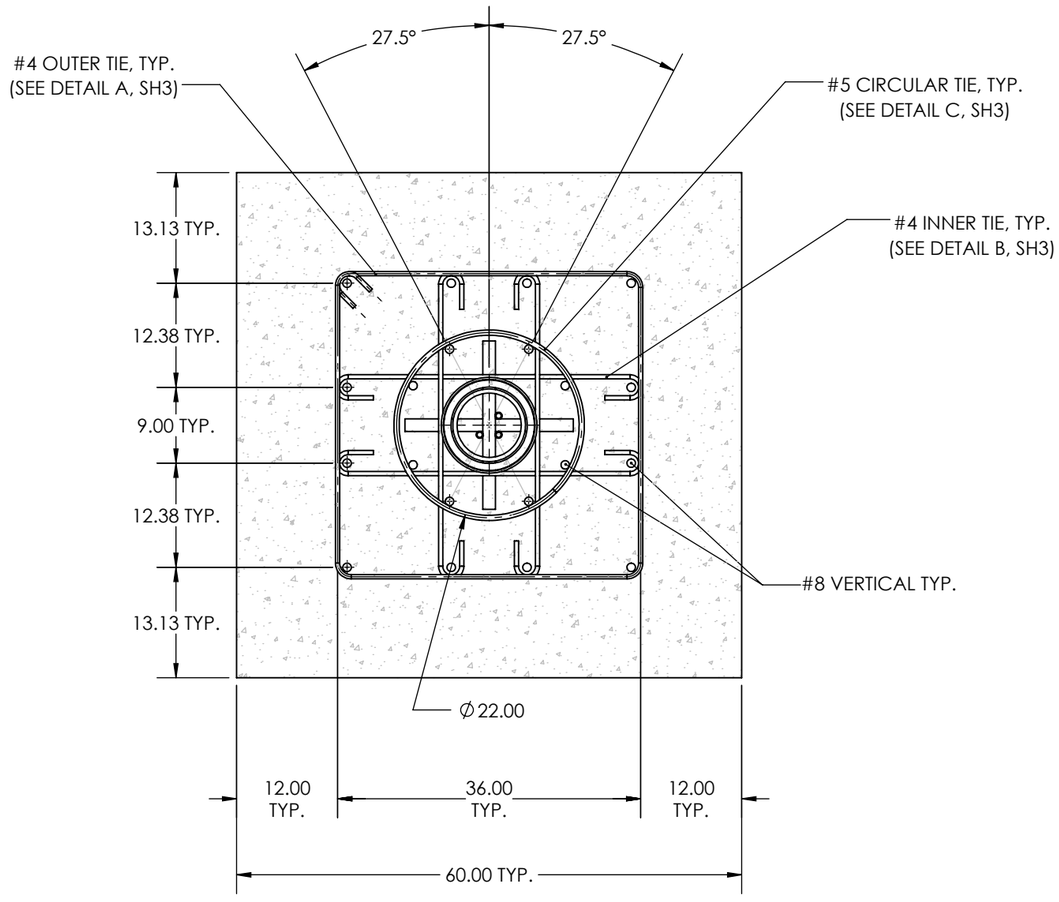
DESCRIPTION:

FORMS+SURFACES

M40-P1 DEEP SECURITY CORE

INDIVIDUAL FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M40-DP-IND-PV-INSTALL	0	1 OF 3



PLAN VIEW (PARTIAL SECTION)

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
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2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES
THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

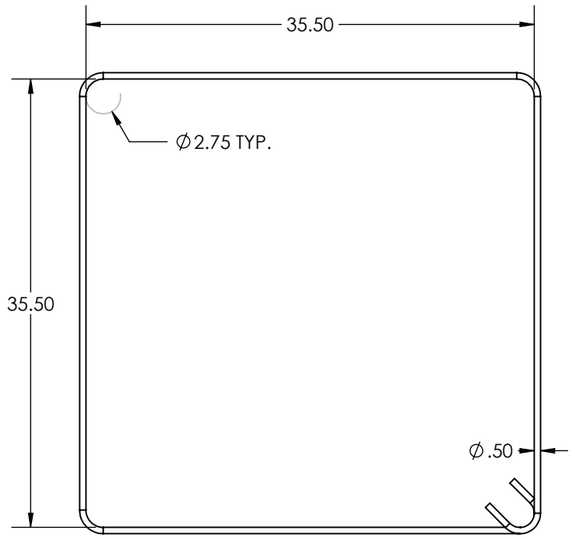
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 385-4715

	NAME	DATE
DWN	YAF	07/11/2023
CHK		

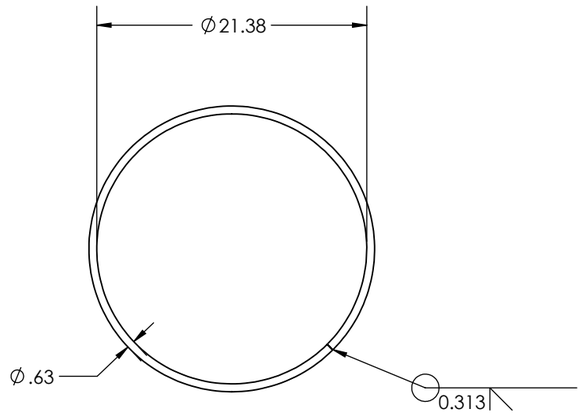
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M40-P1 DEEP SECURITY CORE
INDIVIDUAL FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M40-DP-IND-PV-INSTALL	0	2 OF 3



DETAIL A
#4 OUTER TIE, TYP.



DETAIL C
#5 INNER TIE, TYP.

NOTES:

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5. DEFORMED BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60; SEE CHART FOR SIZING.
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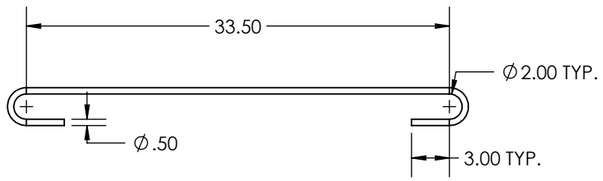

DETAIL B
#4 INNER TIE, TYP.

REBAR CHART	
BAR SIZE	**DIAMETER**
#4	Ø 0.500
#5	Ø 0.625
#8	Ø 1.000

UNLESS OTHERWISE SPECIFIED:
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2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES
THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

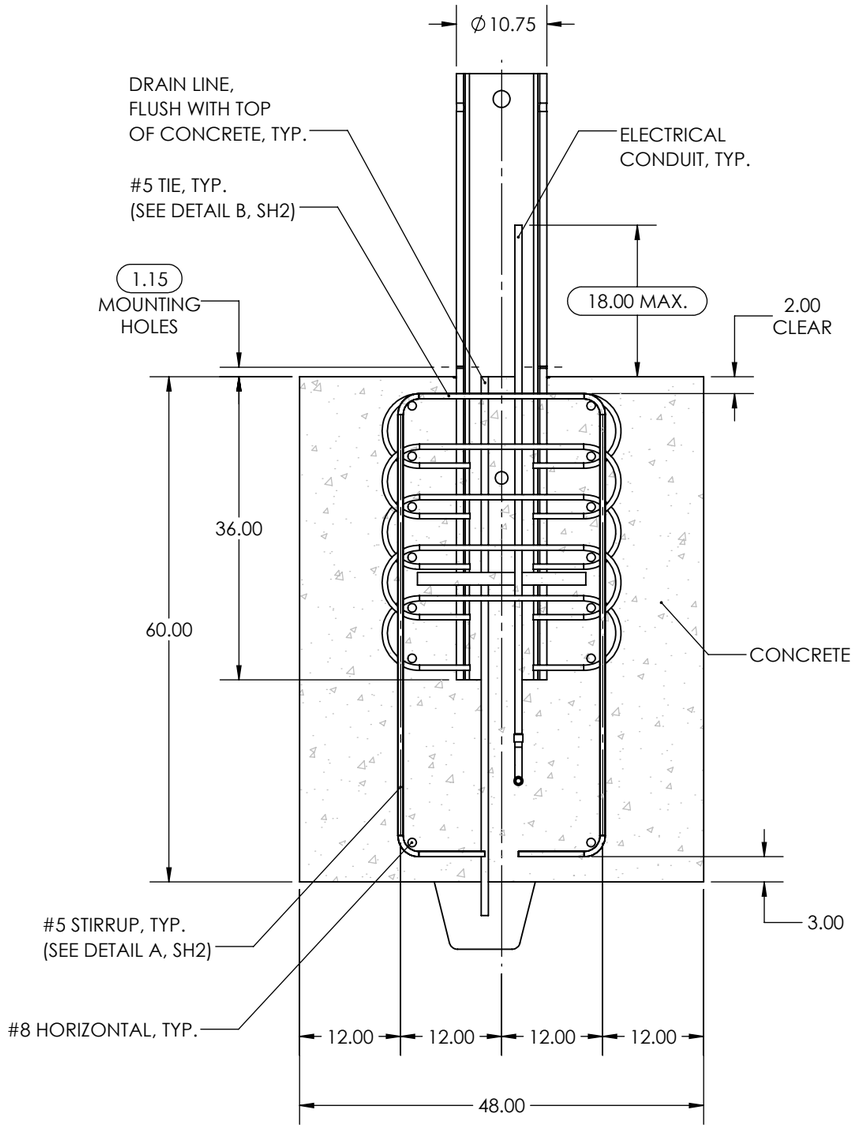
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	YAF	07/11/2023
CHK		

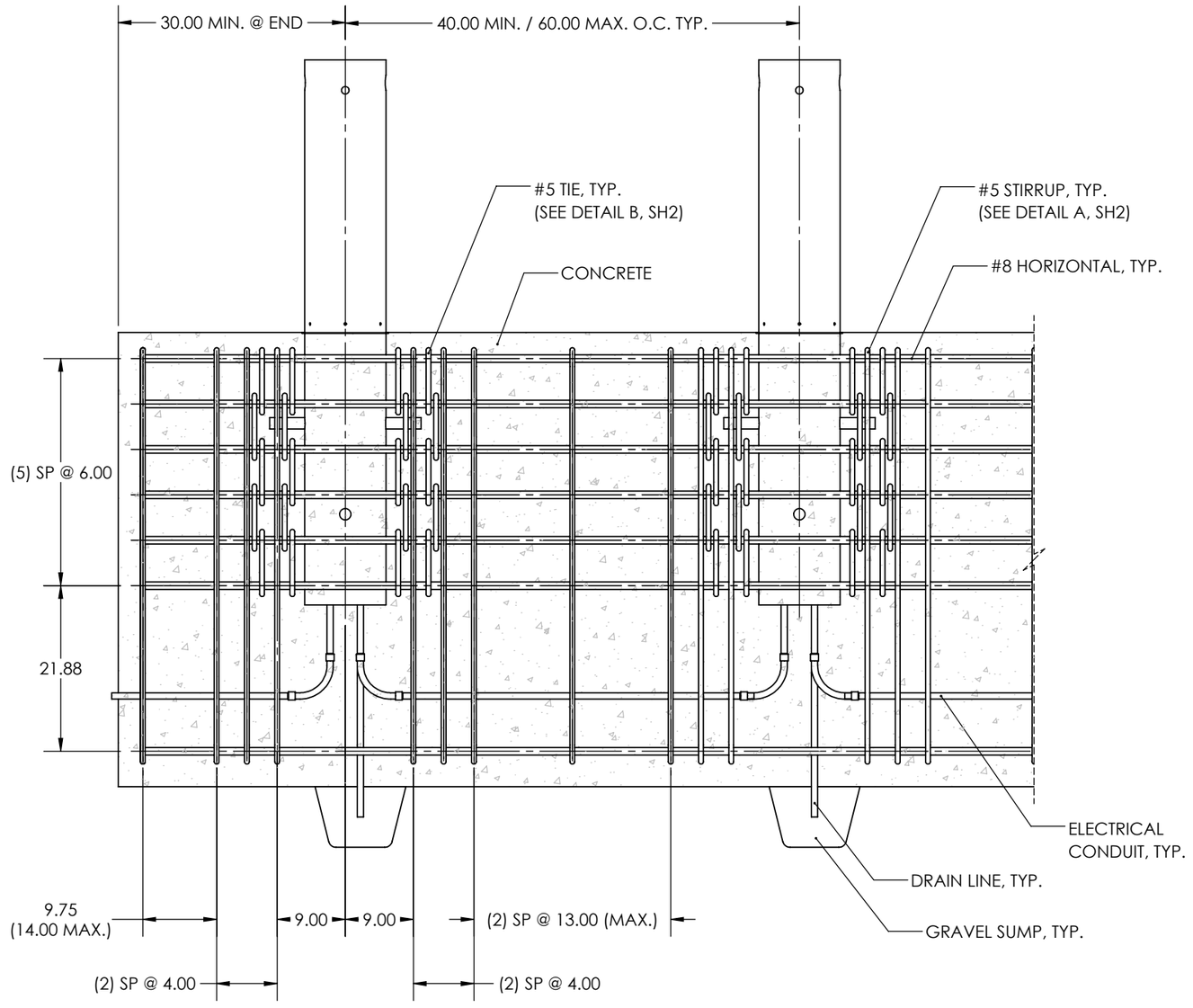
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M40-P1 DEEP SECURITY CORE
INDIVIDUAL FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M40-DP-IND-PV-INSTALL	0	3 OF 3



END VIEW (PARTIAL SECTION)



SIDE VIEW (PARTIAL SECTION)

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

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TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	RTS	10/27/20
CHK		

DO NOT SCALE DRAWING

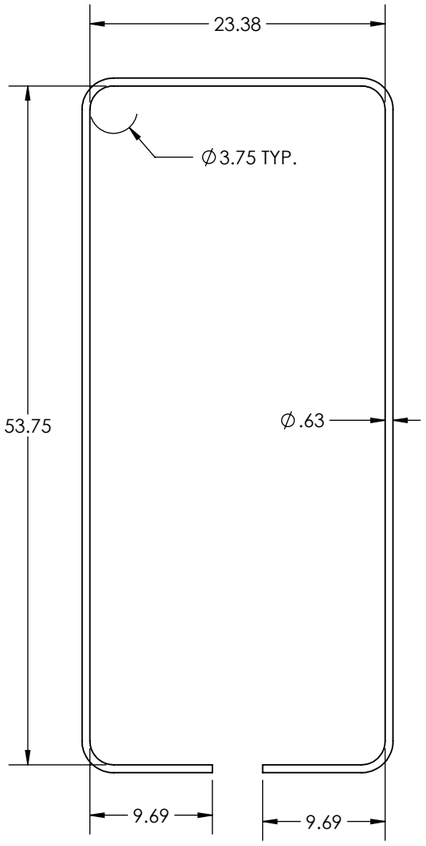
DESCRIPTION:

FORMS+SURFACES

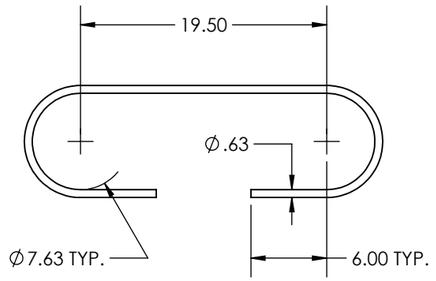
M40-P1 DEEP SECURITY CORE

STRIP FOUNDATION, NO PAVER

SIZE	DWG. NO.	REV	SHEET
B	M40-DP-STR-NP-INSTALL	0	1 OF 2



DETAIL A
#5 STIRRUP, TYP.



DETAIL B
#5 TIE, TYP.

REBAR CHART	
BAR SIZE	**DIAMETER**
#5	Ø 0.625
#8	Ø 1.000

NOTES:

1. FOOTINGS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOIL OR PROPERLY COMPACTED ENGINEERED FILL ASSUMING A NET BEARING CAPACITY OF 2000 PSF.
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REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
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2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES
THIRD ANGLE PROJECTION

MATERIAL: N/A
FINISH: N/A
WEIGHT: N/A
SCALE: NOT TO SCALE

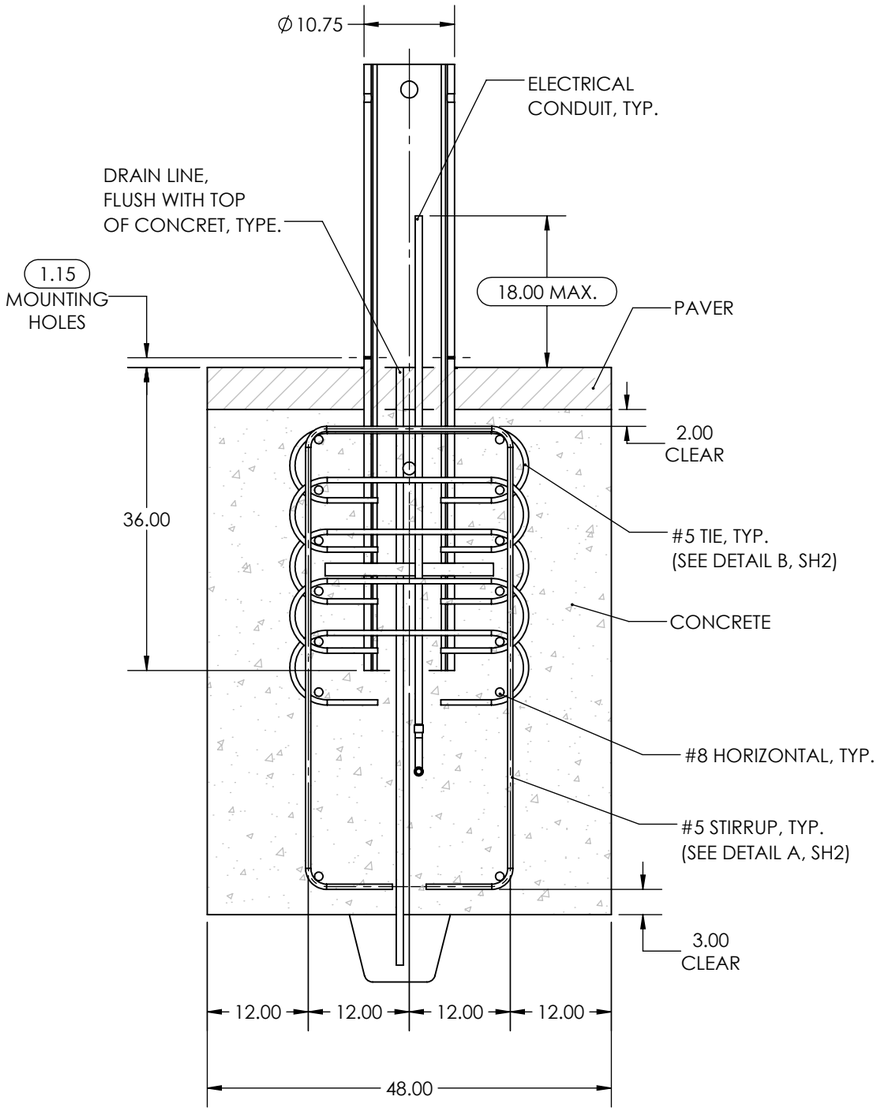
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	RTS	10/27/20
CHK		

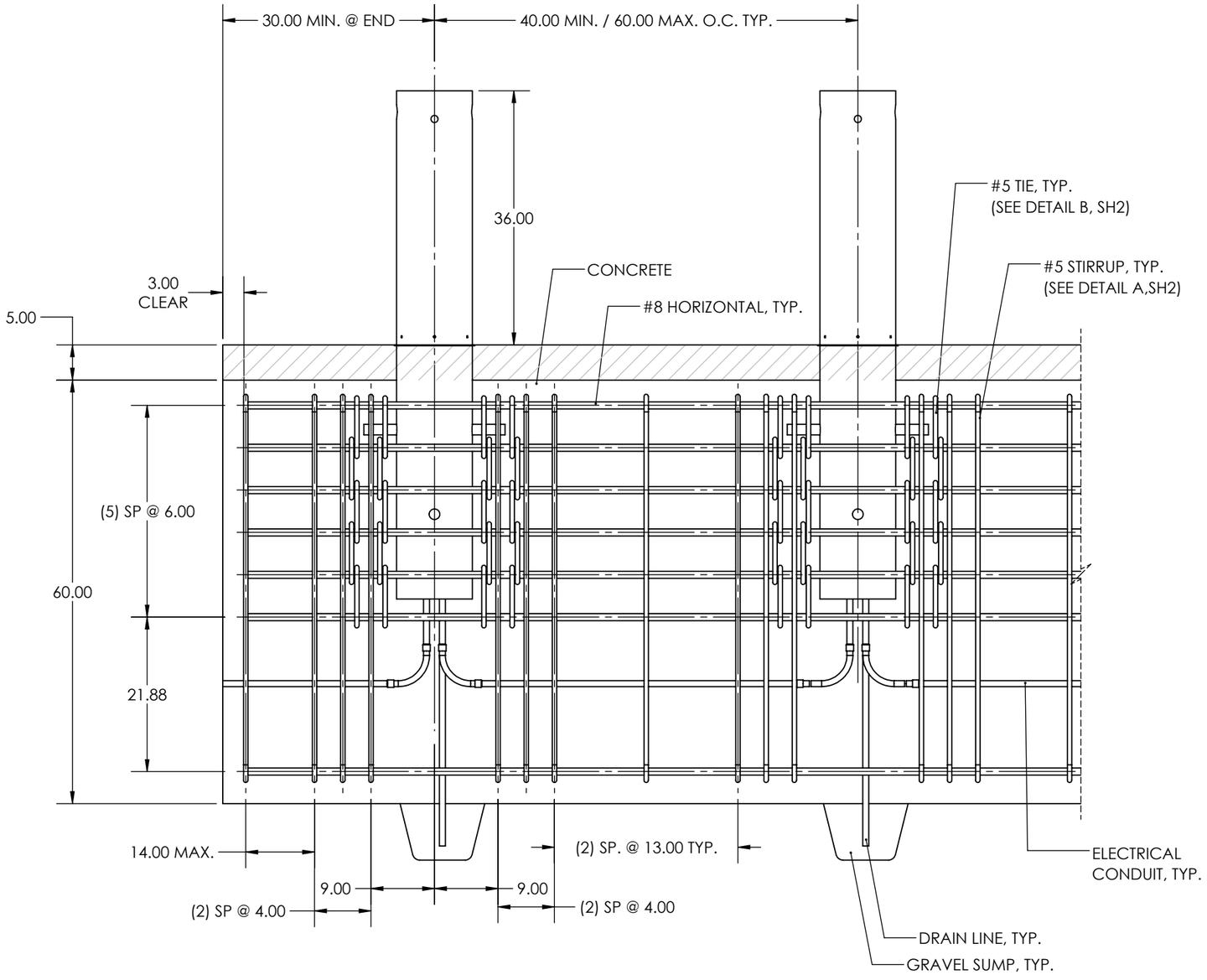
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M40-P1 DEEP SECURITY CORE
STRIP FOUNDATION, NO PAVER

SIZE	DWG. NO.	REV	SHEET
B	M40-DP-STR-NP-INSTALL	0	2 OF 2



END VIEW (PARTIAL SECTION)



SIDE VIEW (PARTIAL SECTION)

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 385-4715

	NAME	DATE
DWN	YAF	07/10/2023
CHK		

DO NOT SCALE DRAWING

DESCRIPTION:

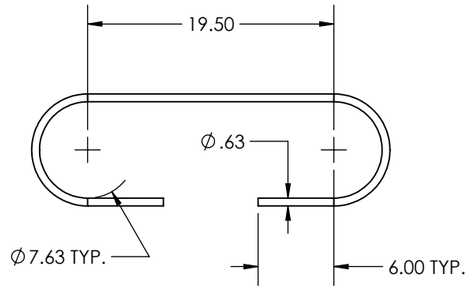
FORMS+SURFACES

M40-P1 DEEP SECURITY CORE

STRIP FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M40-DP-STR-PV-INSTALL	0	1 OF 2

DETAIL A
#5 STIRRUP, TYP.



DETAIL B
#5 TIE, TYP.

REBAR CHART	
BAR SIZE	**DIAMETER**
#5	Ø 0.625
#8	Ø 1.000

NOTES:

1. FOOTINGS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOIL OR PROPERLY COMPACTED ENGINEERED FILL ASSUMING A NET BEARING CAPACITY OF 2000 PSF.
2. REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) OF THE AMERICAN CONCRETE INSTITUTE (EDITIONS AS REQUIRED BY GOVERNING CODE).
3. CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH (F'C) OF 5000 PSI UNO.
4. PROVIDE 6% (+/-1.5%) AIR ENTRAINMENT IN CONCRETE EXPOSED TO FREEZE/THAW.
5. DEFORMED BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60; SEE CHART FOR SIZING.
6. REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, OR CHAIRS SHALL BE PROVIDED TO FURNISH SUPPORT FOR SPECIFIED BARS.

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

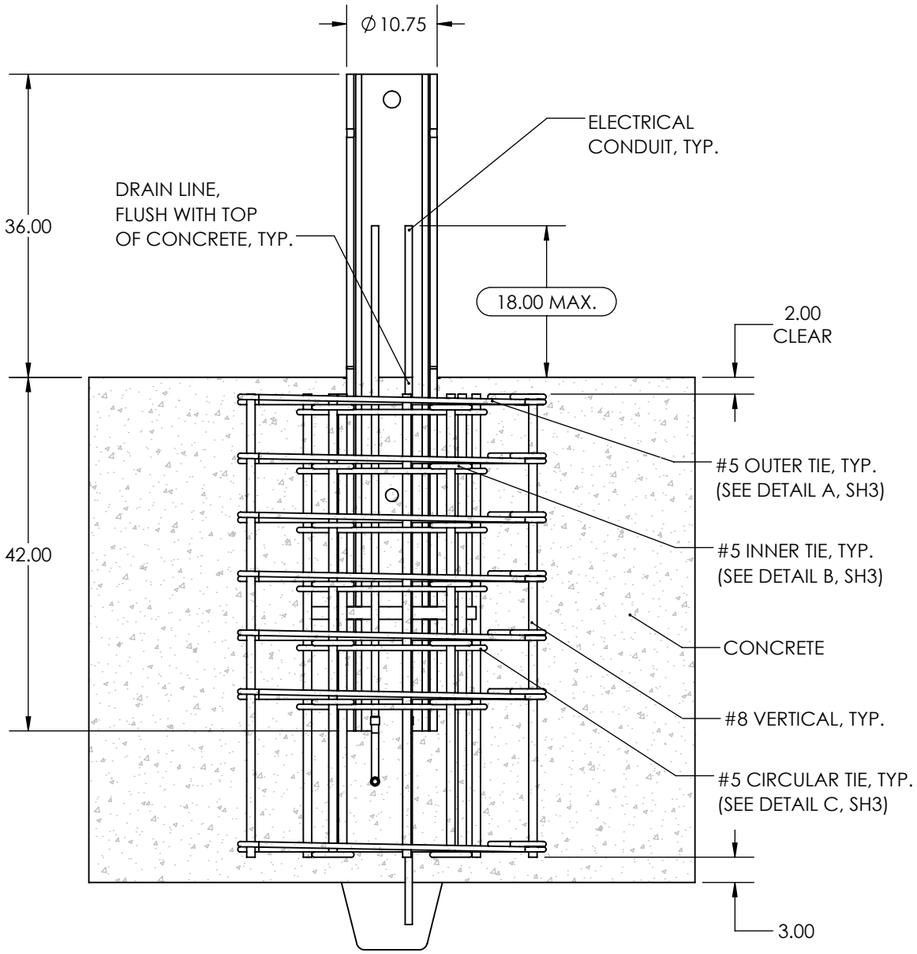
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	YAF	07/10/2023
CHK		

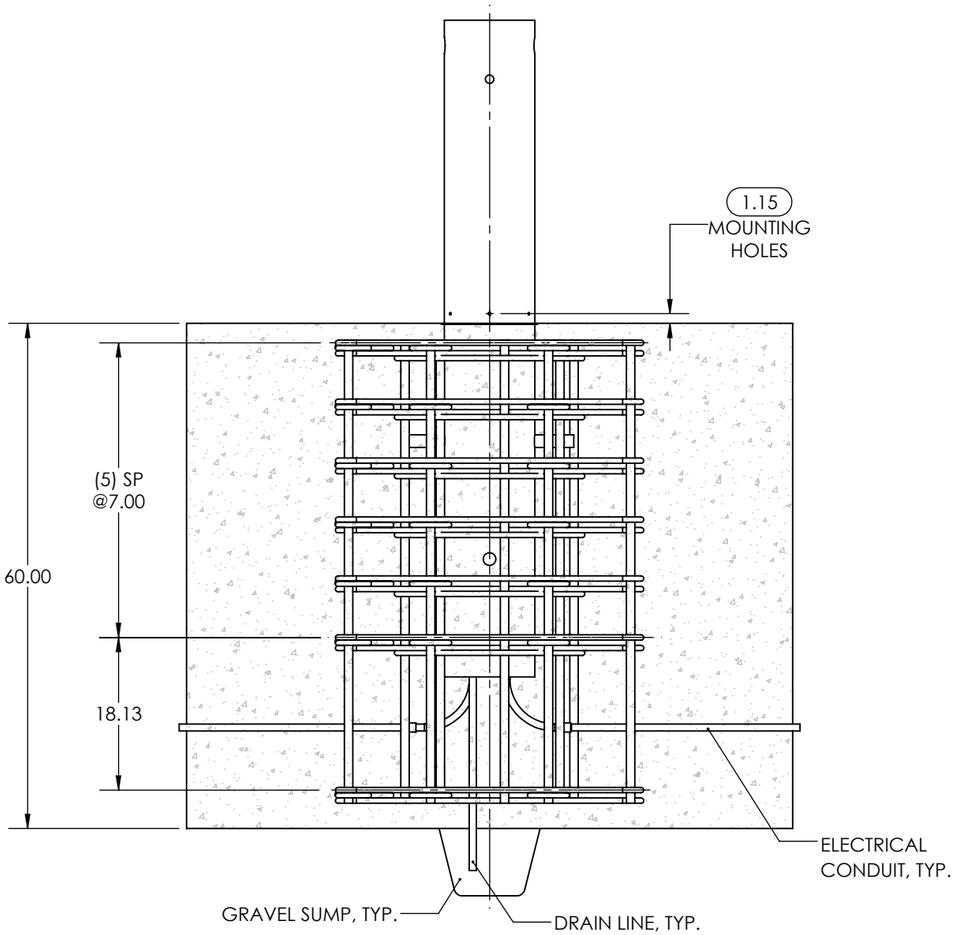
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M40-P1 DEEP SECURITY CORE
STRIP FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M40-DP-STR-PV-INSTALL	0	2 OF 2



END VIEW (PARTIAL SECTION)



SIDE VIEW (PARTIAL SECTION)

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

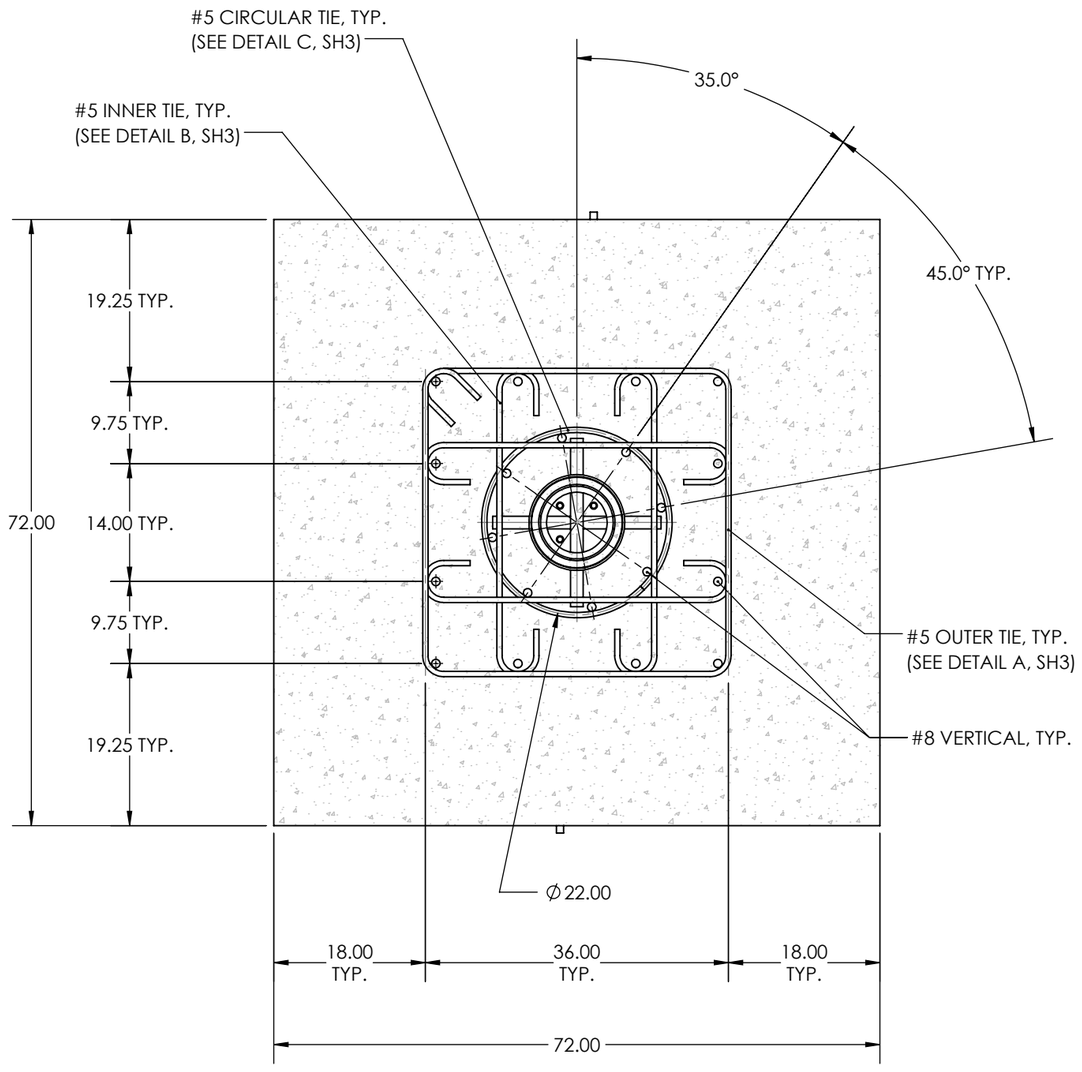
	NAME	DATE
DWN	RTS	08/03/20
CHK		

DO NOT SCALE DRAWING

DESCRIPTION:

FORMS+SURFACES
M50-P1 DEEP SECURITY CORE
INDIVIDUAL FOUNDATION, NO PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-DP-IND-NP-INSTALL	0	1 OF 3



PLAN VIEW (PARTIAL SECTION)

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

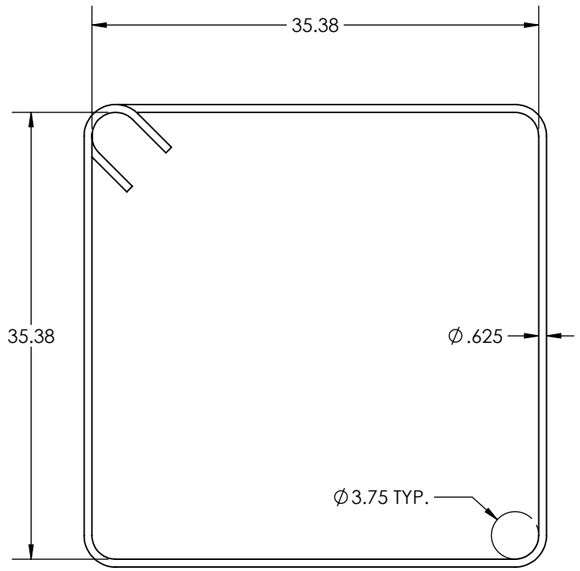
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	RTS	08/03/20
CHK		

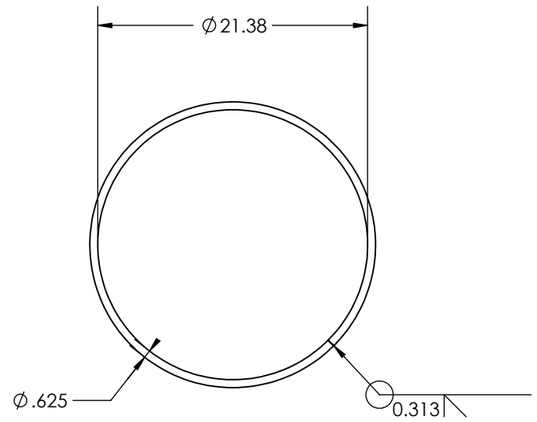
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M50-P1 DEEP SECURITY CORE
INDIVIDUAL FOUNDATION, NO PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-DP-IND-NP-INSTALL	0	2 OF 3



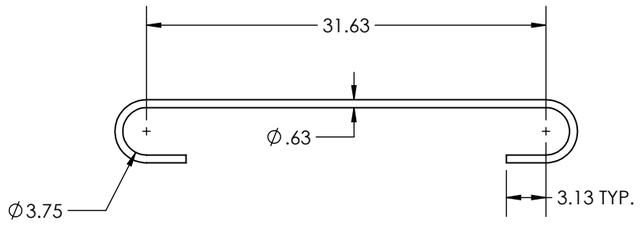
DETAIL A
#5 OUTER TIE, TYP.



DETAIL C
#5 CIRCULAR TIE, TYP.

NOTES:

1. FOOTINGS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOIL OR PROPERLY COMPACTED ENGINEERED FILL ASSUMING A NET BEARING CAPACITY OF 2000 PSF.
2. REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) OF THE AMERICAN CONCRETE INSTITUTE (EDITIONS AS REQUIRED BY GOVERNING CODE).
3. CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH (F'C) OF 5000 PSI UNO.
4. PROVIDE 6% (+/-1.5%) AIR ENTRAINMENT IN CONCRETE EXPOSED TO FREEZE/THAW.
5. DEFORMED BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60; SEE CHART FOR SIZING.
6. REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, OR CHAIRS SHALL BE PROVIDED TO FURNISH SUPPORT FOR SPECIFIED BARS.



DETAIL B
#5 INNER TIE, TYP.

REBAR CHART	
BAR SIZE	**DIAMETER**
#5	Ø 0.625
#8	Ø 1.000

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

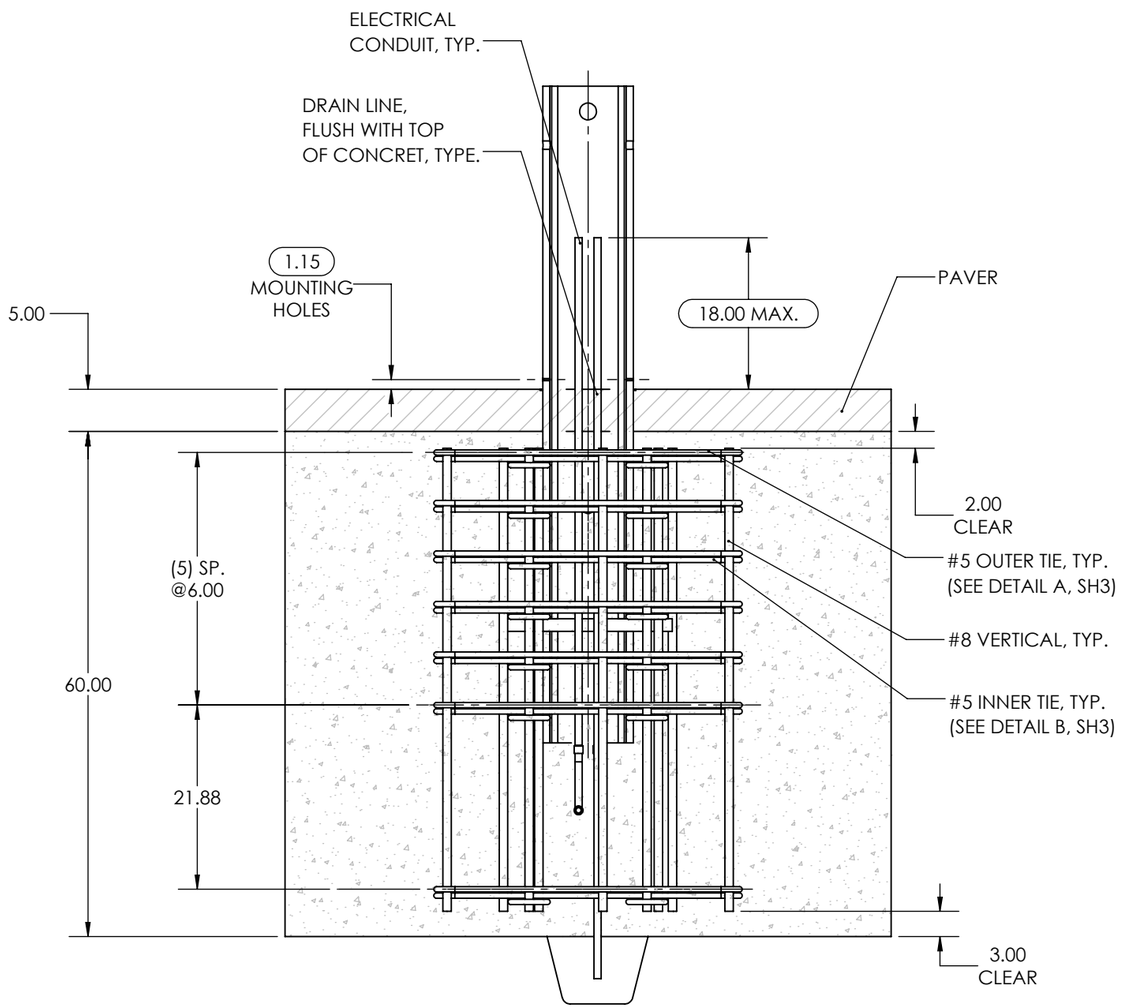
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	RTS	08/03/20
CHK		

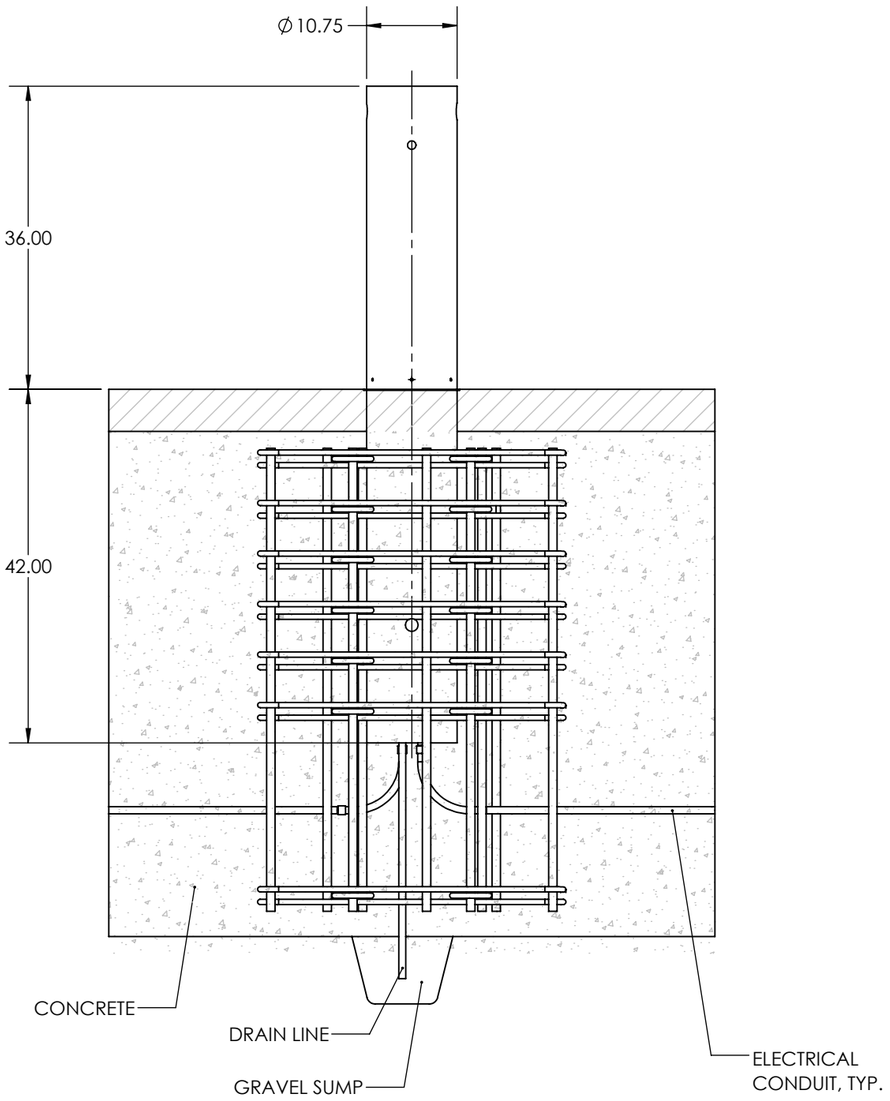
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M50-P1 DEEP SECURITY CORE
INDIVIDUAL FOUNDATION, NO PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-DP-IND-NP-INSTALL	0	3 OF 3



END VIEW (PARTIAL SECTION)



SIDE VIEW (PARTIAL SECTION)

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND:±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 385-4715

	NAME	DATE
DWN	YAF	07/11/2023
CHK		

DO NOT SCALE DRAWING

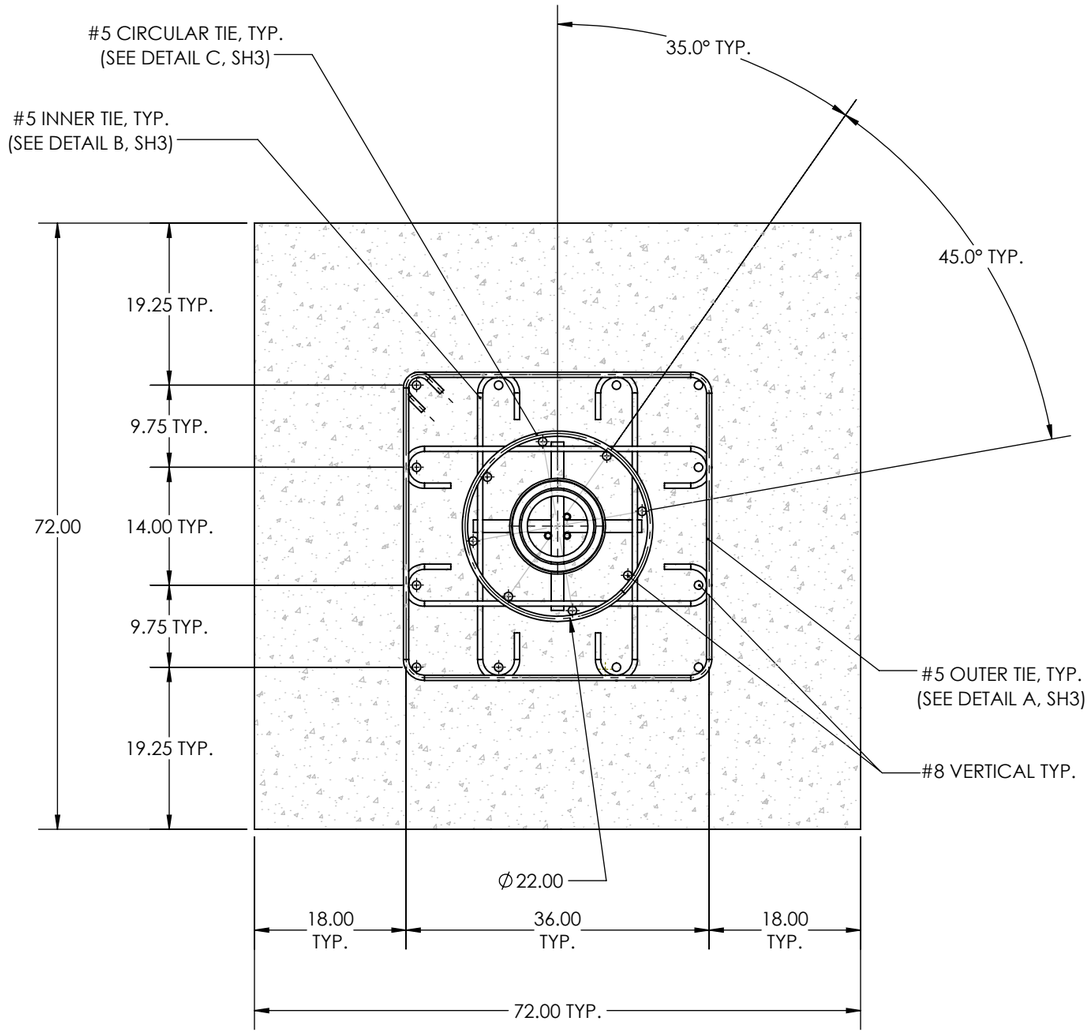
DESCRIPTION:

FORMS+SURFACES

M50-P1 DEEP SECURITY CORE

INDIVIDUAL FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-DP-IND-PV-INSTALL	0	1 OF 3



PLAN VIEW (PARTIAL SECTION)

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

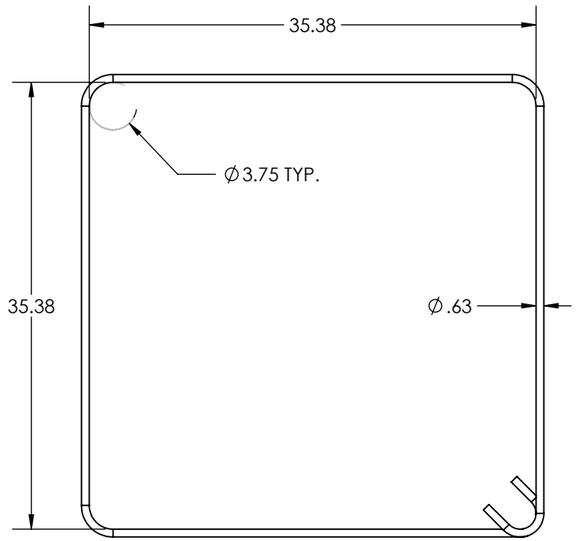
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	YAF	07/11/2023
CHK		

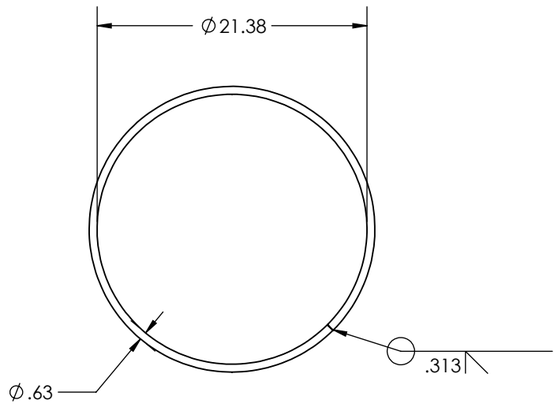
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M50-P1 DEEP SECURITY CORE
INDIVIDUAL FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-DP-IND-PV-INSTALL	0	2 OF 3



DETAIL A
#5 OUTER TIE, TYP.



DETAIL C
#5 INNER TIE, TYP.

NOTES:

1. FOOTINGS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOIL OR PROPERLY COMPACTED ENGINEERED FILL ASSUMING A NET BEARING CAPACITY OF 2000 PSF.
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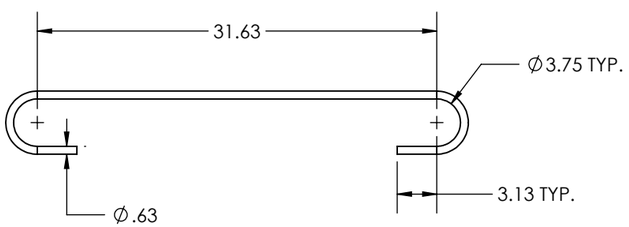
4. PROVIDE 6% (+/-1.5%) AIR ENTRAINMENT IN CONCRETE EXPOSED TO FREEZE/THAW.
5. DEFORMED BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60; SEE CHART FOR SIZING.
6. REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, OR CHAIRS SHALL BE PROVIDED TO FURNISH SUPPORT FOR SPECIFIED BARS.



DETAIL B
#5 INNER TIE, TYP.

REBAR CHART	
BAR SIZE	**DIAMETER**
#5	Ø 0.625
#8	Ø 1.000

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

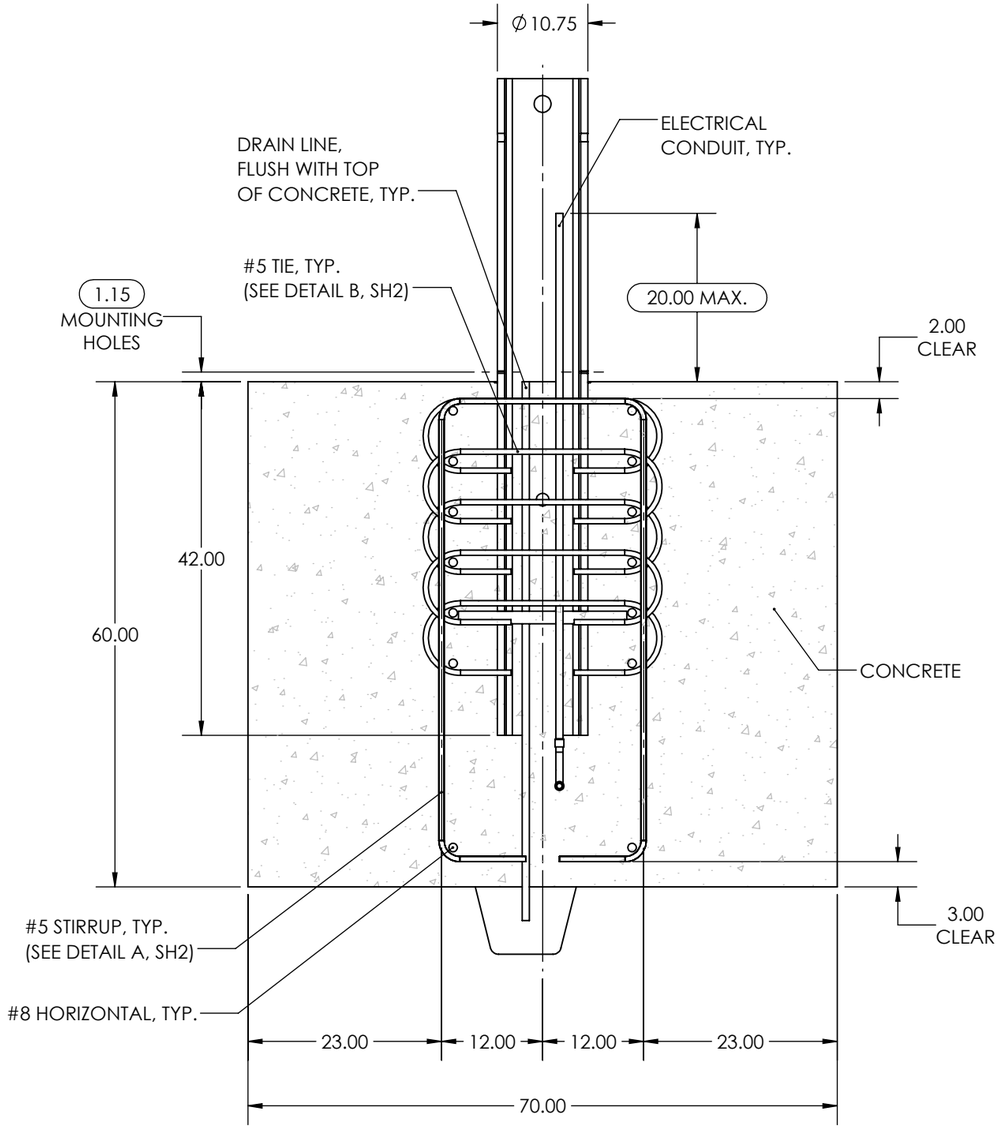
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	YAF	07/11/2023
CHK		

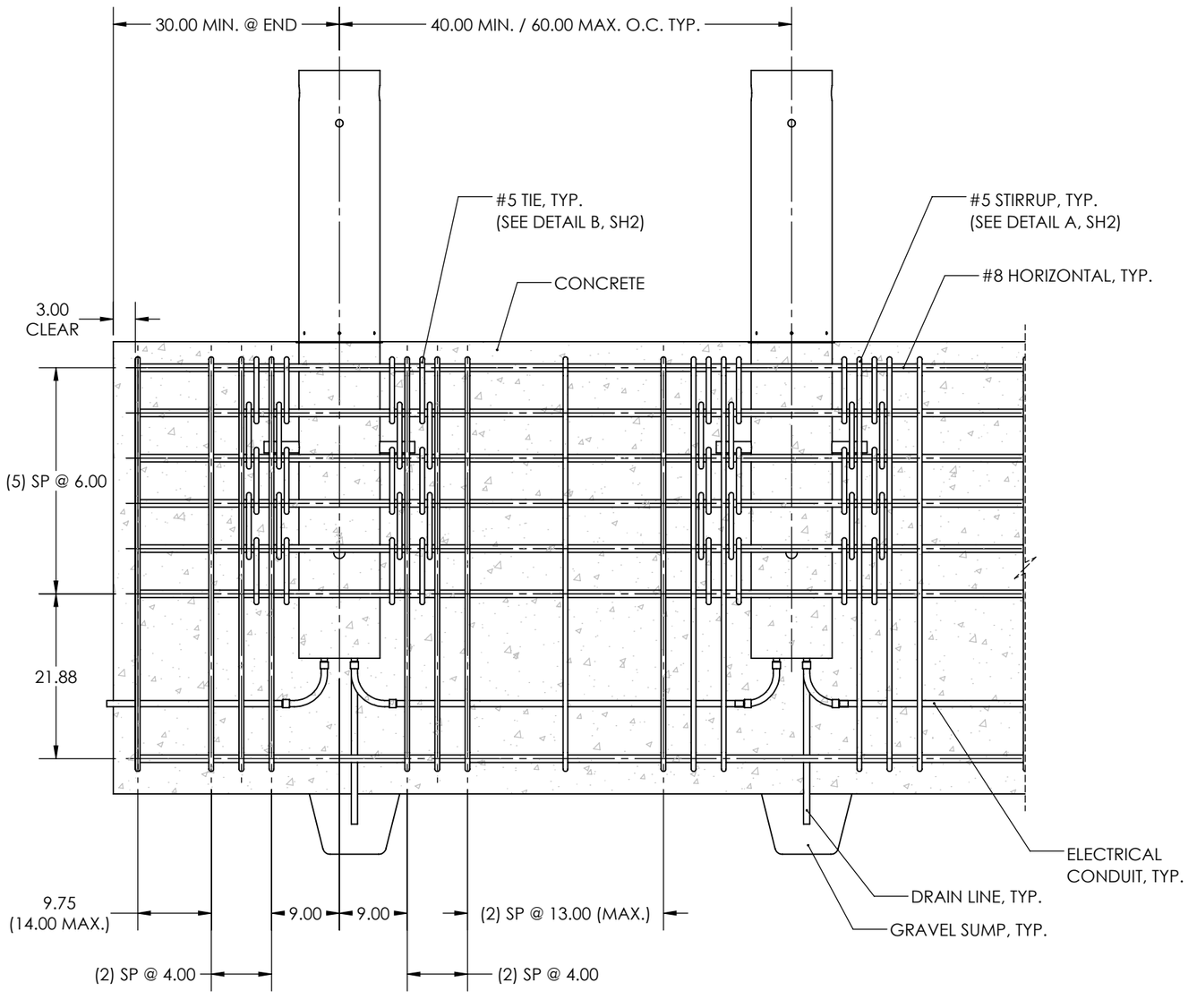
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M50-P1 DEEP SECURITY CORE
INDIVIDUAL FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-DP-IND-PV-INSTALL	0	3 OF 3



END VIEW (PARTIAL SECTION)



SIDE VIEW (PARTIAL SECTION)

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ± 1/32 ; ANGULAR/BEND: ± 1°
TWO PLACE DECIMAL ± .030
THREE PLACE DECIMAL ± .020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	RTS	08/17/20
CHK		

DO NOT SCALE DRAWING

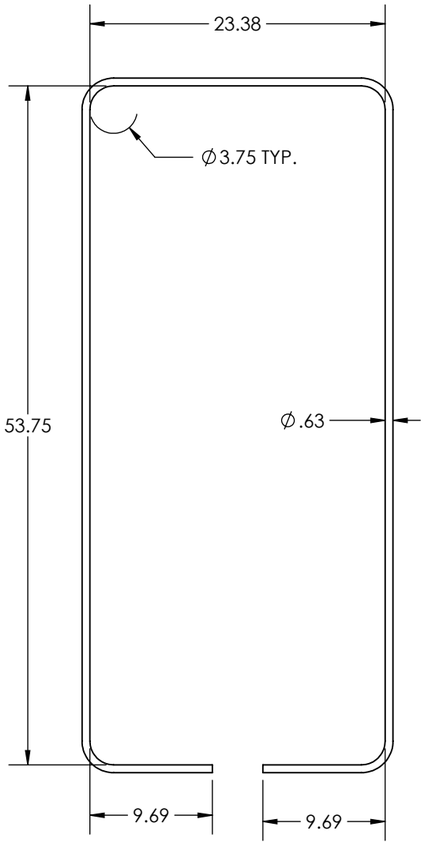
DESCRIPTION:

FORMS+SURFACES

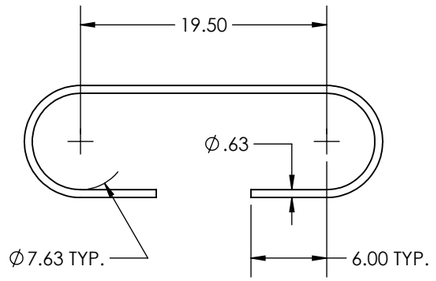
M50-P1 DEEP SECURITY CORE

STRIP FOUNDATION, NO PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-DP-STR-NP-INSTALL	0	1 OF 2



DETAIL A
#5 STIRRUP, TYP.



DETAIL B
#5 TIE, TYP.

REBAR CHART	
BAR SIZE	**DIAMETER**
#5	Ø 0.625
#8	Ø 1.000

NOTES:

1. FOOTINGS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOIL OR PROPERLY COMPACTED ENGINEERED FILL ASSUMING A NET BEARING CAPACITY OF 2000 PSF.
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4. PROVIDE 6% (+/-1.5%) AIR ENTRAINMENT IN CONCRETE EXPOSED TO FREEZE/THAW.
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REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

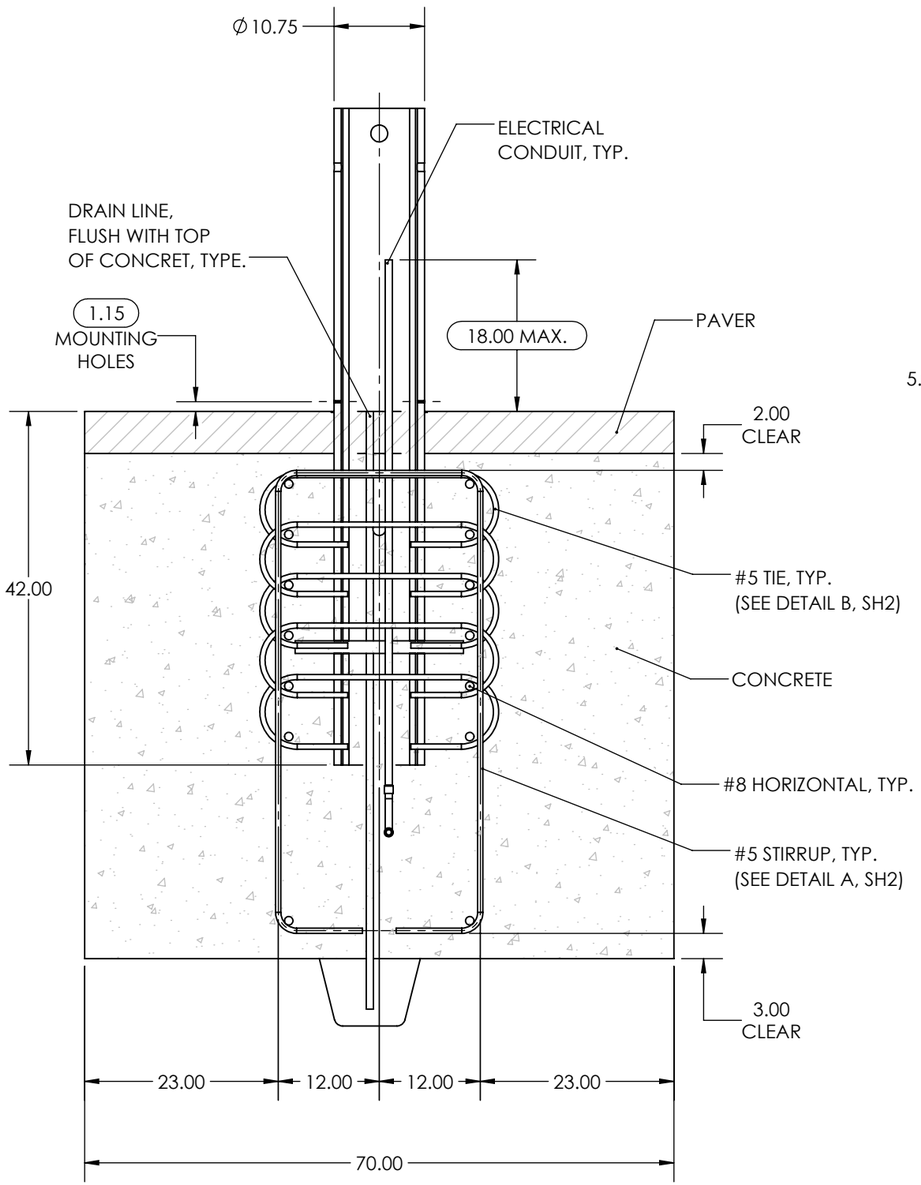
FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	RTS	08/17/20
CHK		

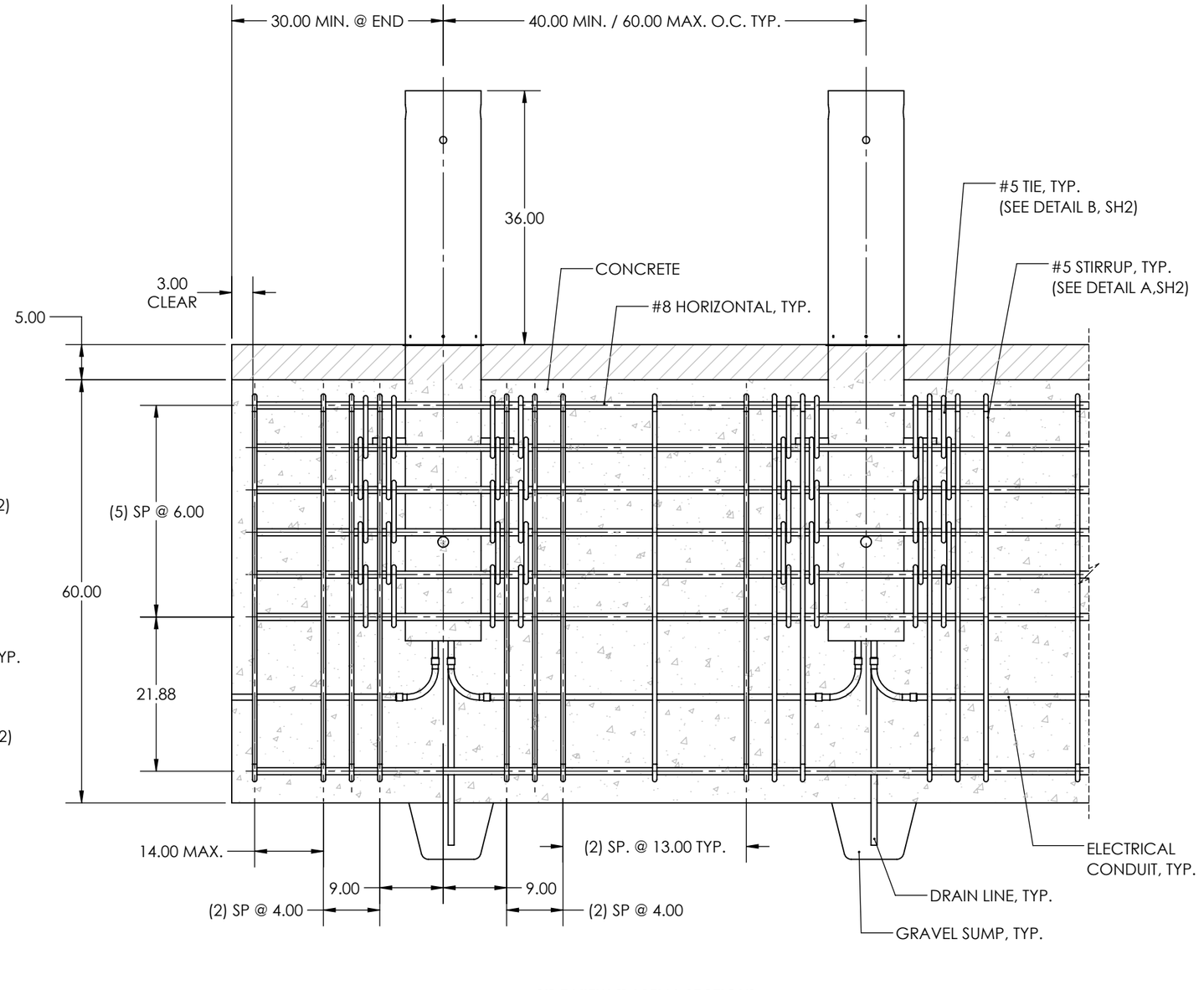
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M50-P1 DEEP SECURITY CORE
STRIP FOUNDATION, NO PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-DP-STR-NP-INSTALL	0	2 OF 2



END VIEW (PARTIAL SECTION)



SIDE VIEW (PARTIAL SECTION)

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 385-4715

	NAME	DATE
DWN	YAF	07/10/2023
CHK		

DO NOT SCALE DRAWING

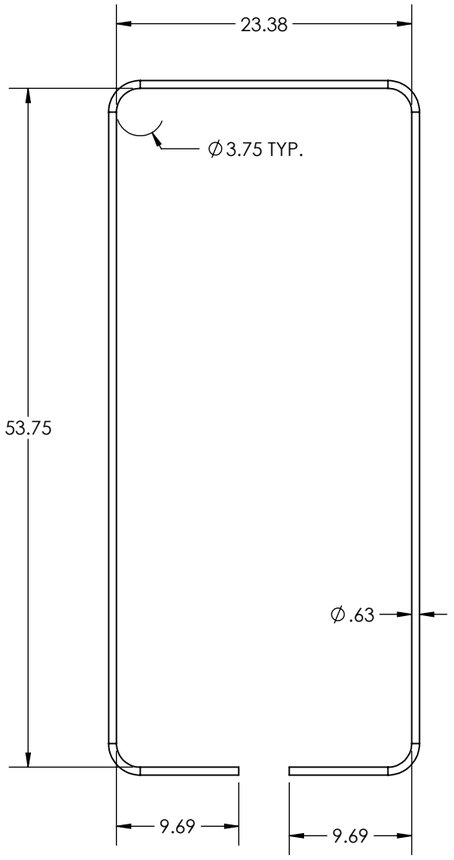
DESCRIPTION:

FORMS+SURFACES

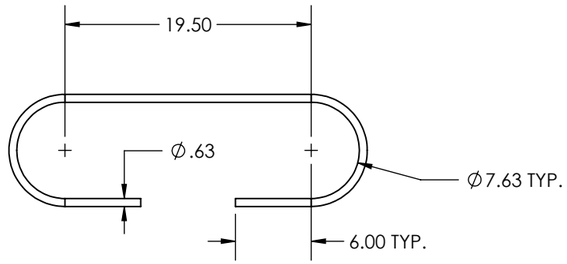
M50-P1 DEEP SECURITY CORE

STRIP FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-DP-STR-PV-INSTALL	0	1 OF 2



DETAIL A
#5 STIRRUP, TYP.



DETAIL B
#5 TIE, TYP.

REBAR CHART	
BAR SIZE	**DIAMETER**
#5	Ø 0.625
#8	Ø 1.000

NOTES:

1. FOOTINGS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOIL OR PROPERLY COMPACTED ENGINEERED FILL ASSUMING A NET BEARING CAPACITY OF 2000 PSF.
2. REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) OF THE AMERICAN CONCRETE INSTITUTE (EDITIONS AS REQUIRED BY GOVERNING CODE).
3. CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH (F'C) OF 5000 PSI UNO.
4. PROVIDE 6% (+/-1.5%) AIR ENTRAINMENT IN CONCRETE EXPOSED TO FREEZE/THAW.
5. DEFORMED BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60; SEE CHART FOR SIZING.
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UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES

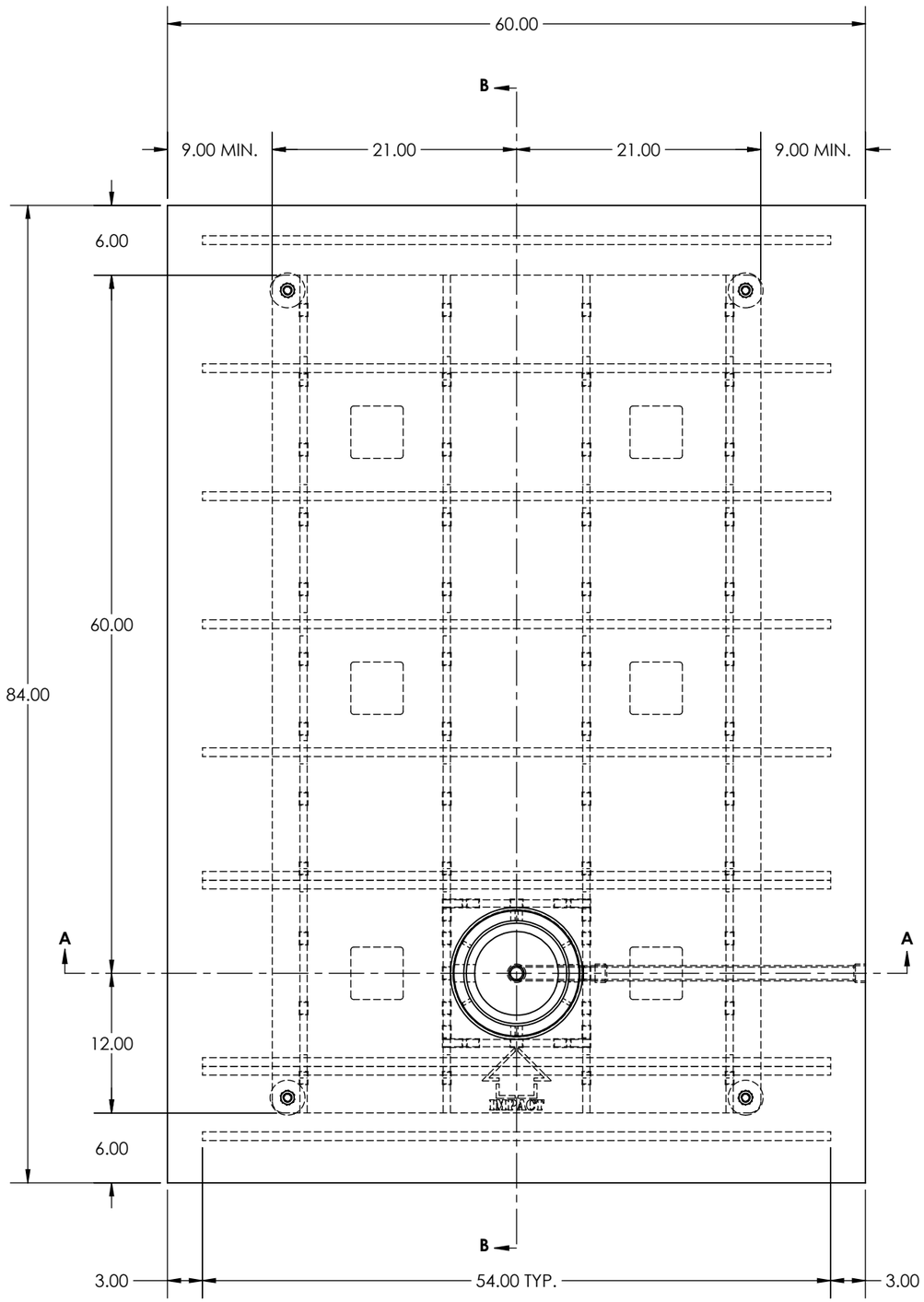
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	YAF	07/10/2023
CHK		

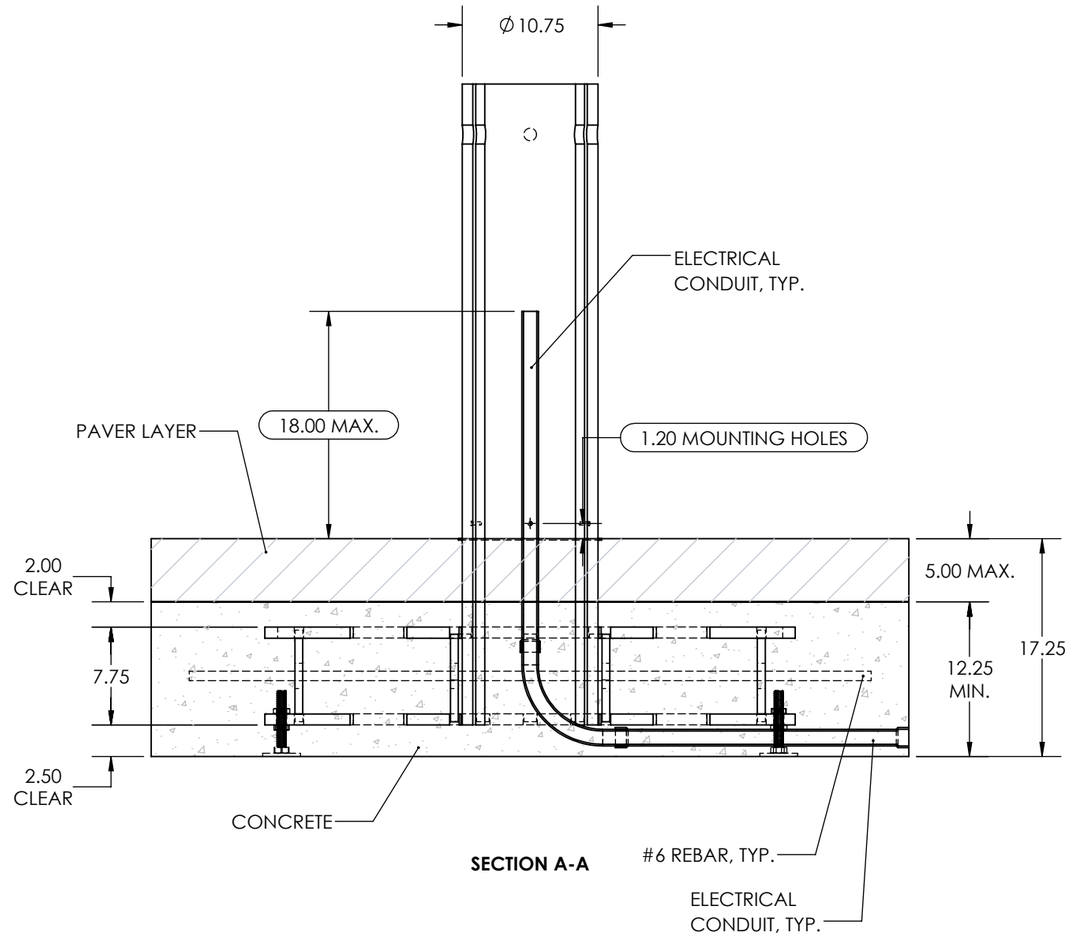
DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M50-P1 DEEP SECURITY CORE
STRIP FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-DP-STR-PV-INSTALL	0	2 OF 2



TOP VIEW



SECTION A-A

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	----------	----------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

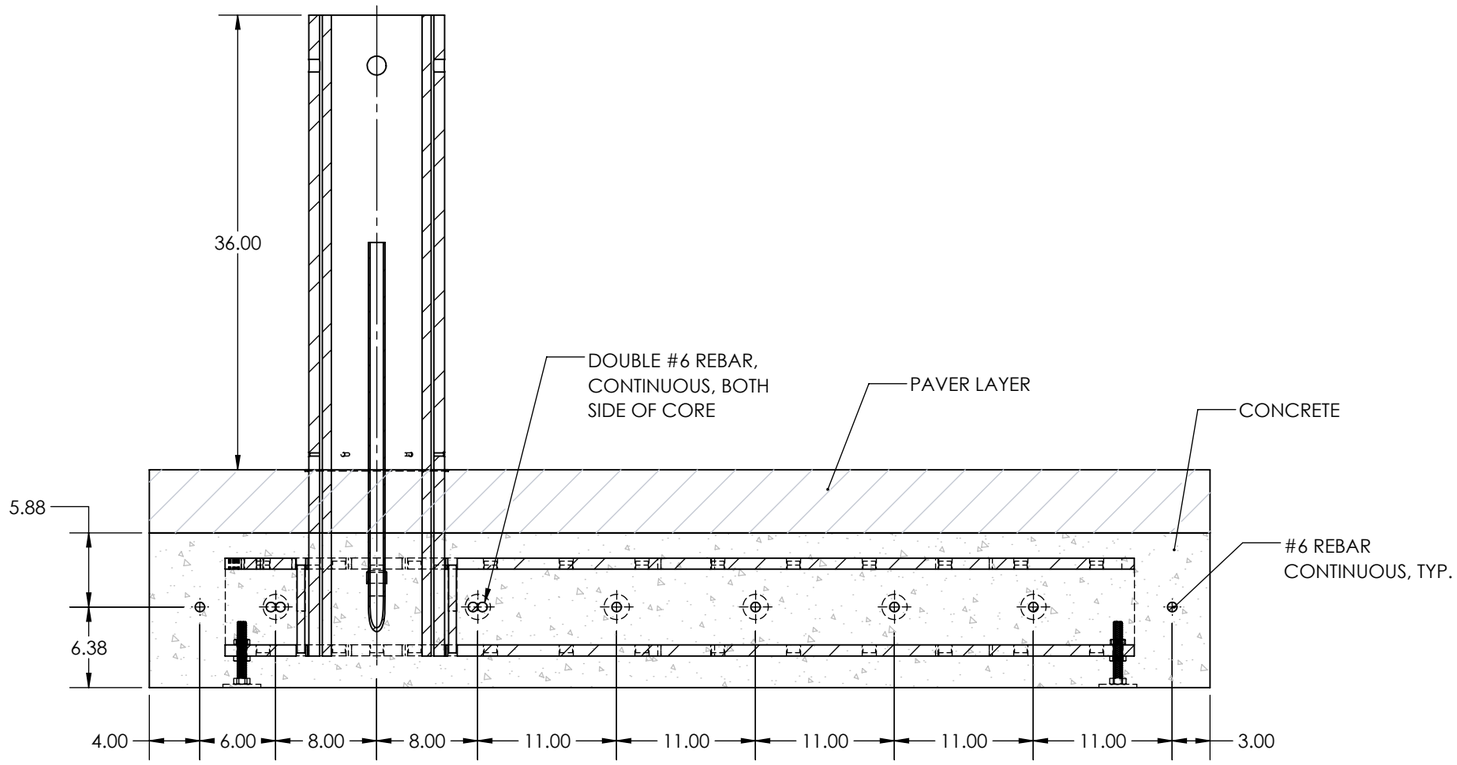
	NAME	DATE
DWN	RTS	05/22/2023
CHK		

DO NOT SCALE DRAWING

DESCRIPTION:

FORMS+SURFACES
M50-P1 SHALLOW SECURITY CORE
INDIVIDUAL FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-SH-IND-PV-INSTALL	0	1 OF 3



SECTION B-B

NOTES:

1. FOOTINGS HAVE BEEN DESIGNED TO BEAR ON UNDISTURBED SOIL OR PROPERLY COMPACTED ENGINEERED FILL ASSUMING A NET BEARING CAPACITY OF 2000 PSF.
2. REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND THE SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) OF THE AMERICAN CONCRETE INSTITUTE (EDITIONS AS REQUIRED BY GOVERNING CODE).
3. CAST-IN-PLACE CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH (F'C) OF 5000 PSI UNO.
4. PROVIDE 6% (+/-1.5%) AIR ENTRAINMENT IN CONCRETE EXPOSED TO FREEZE/THAW.
5. DEFORMED BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60; SEE CHART FOR SIZING.
6. REINFORCEMENT SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, STIRRUPS, OR CHAIRS SHALL BE PROVIDED TO FURNISH SUPPORT FOR SPECIFIED BARS.

REBAR CHART	
BAR SIZE	**DIAMETER**
#6	Ø 0.750

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

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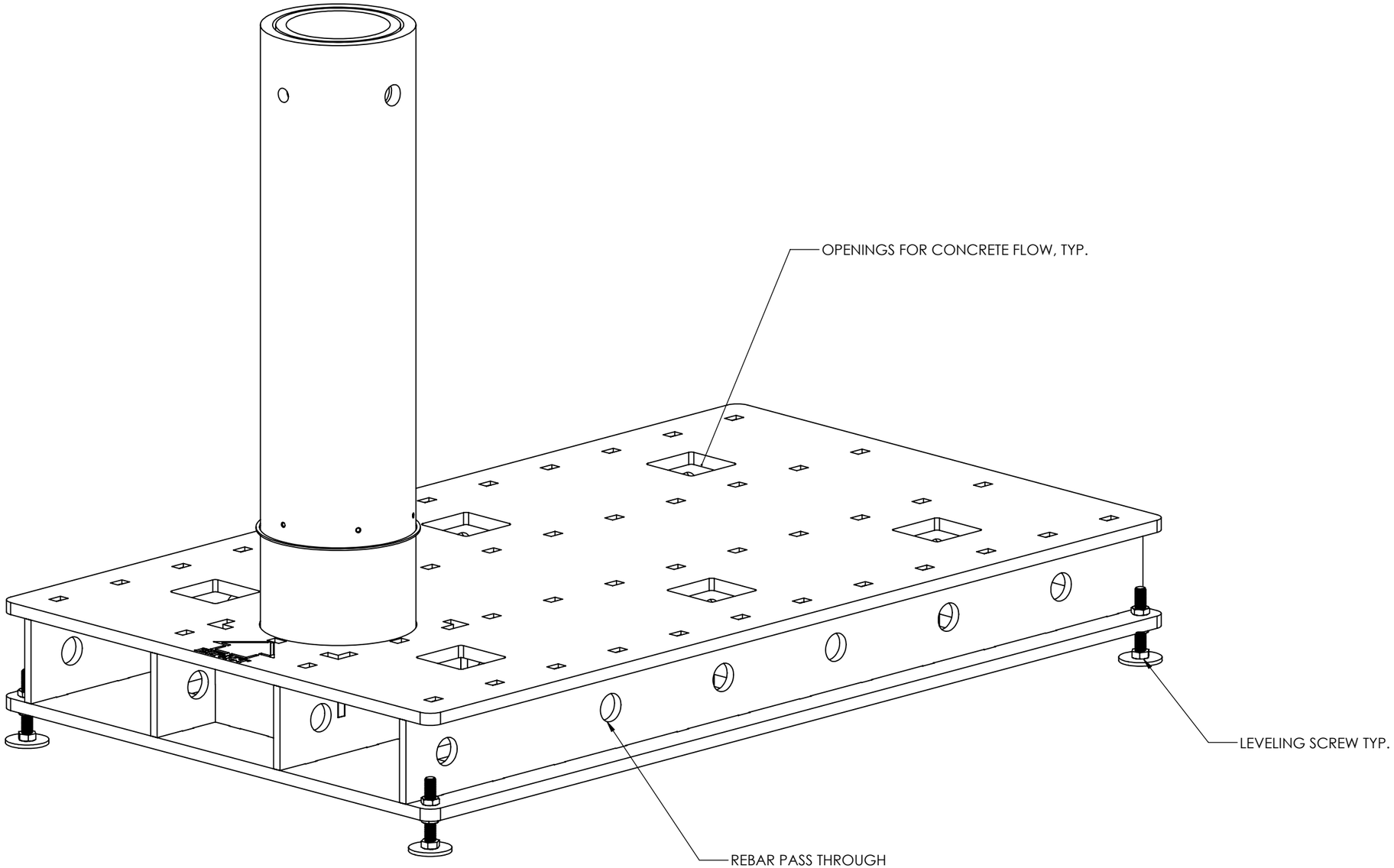
	NAME	DATE
DWN	RTS	05/22/2023
CHK		

DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M50-P1 SHALLOW SECURITY CORE
INDIVIDUAL FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-SH-IND-PV-INSTALL	0	2 OF 3



ISOMETRIC VIEW
SECURITY CORE WELDMENT

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
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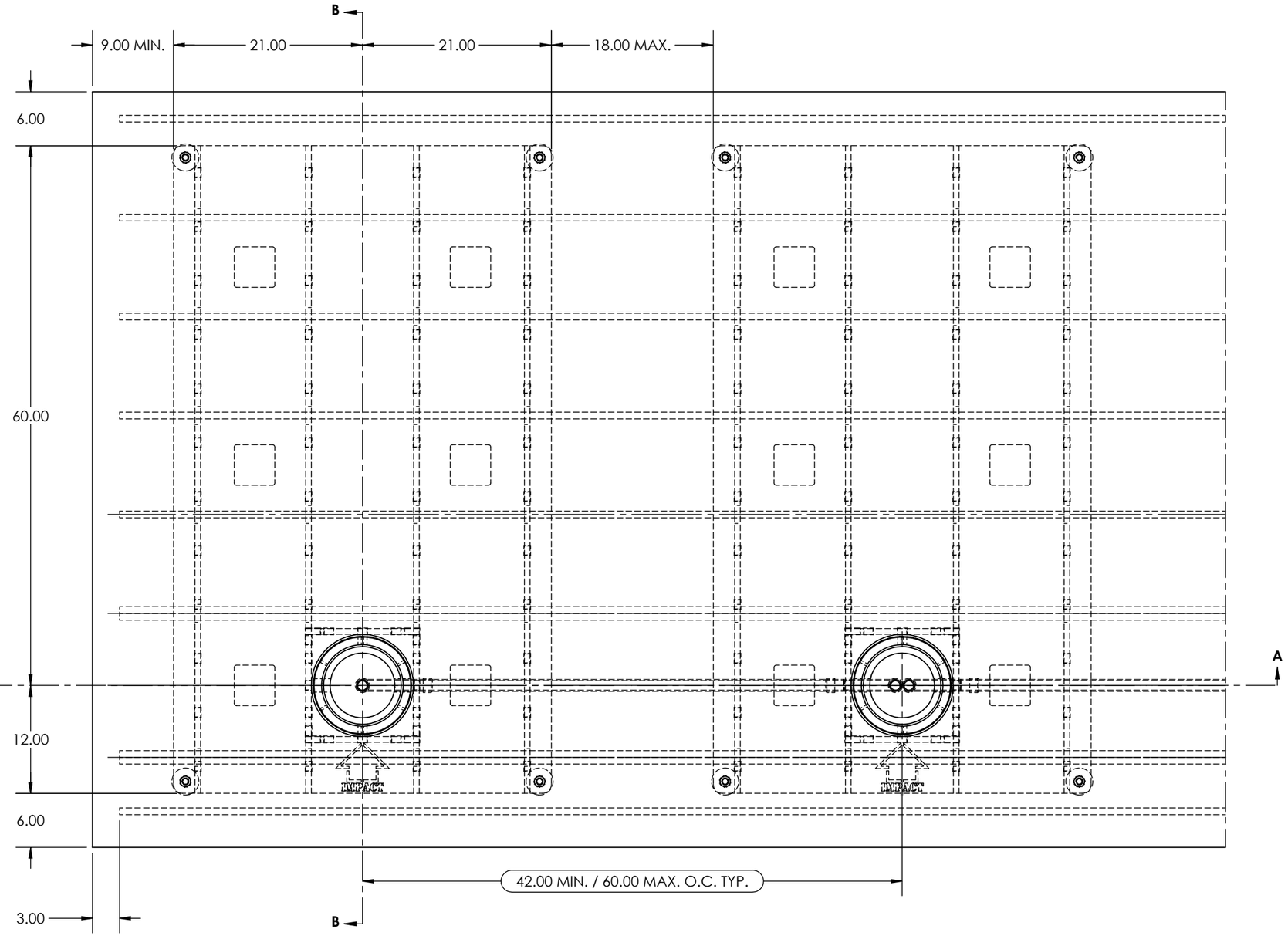
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	RTS	05/22/2023
CHK		

DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M50-P1 SHALLOW SECURITY CORE
INDIVIDUAL FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-SH-IND-PV-INSTALL	0	3 OF 3



TOP VIEW

REV.	DESCRIPTION	REVISED BY	DATE
0	INITIAL RELEASE	--------	--------

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
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TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
30 Pine Street, Pittsburgh, PA 15223
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	JRF	07/07/2022
CHK		

DO NOT SCALE DRAWING

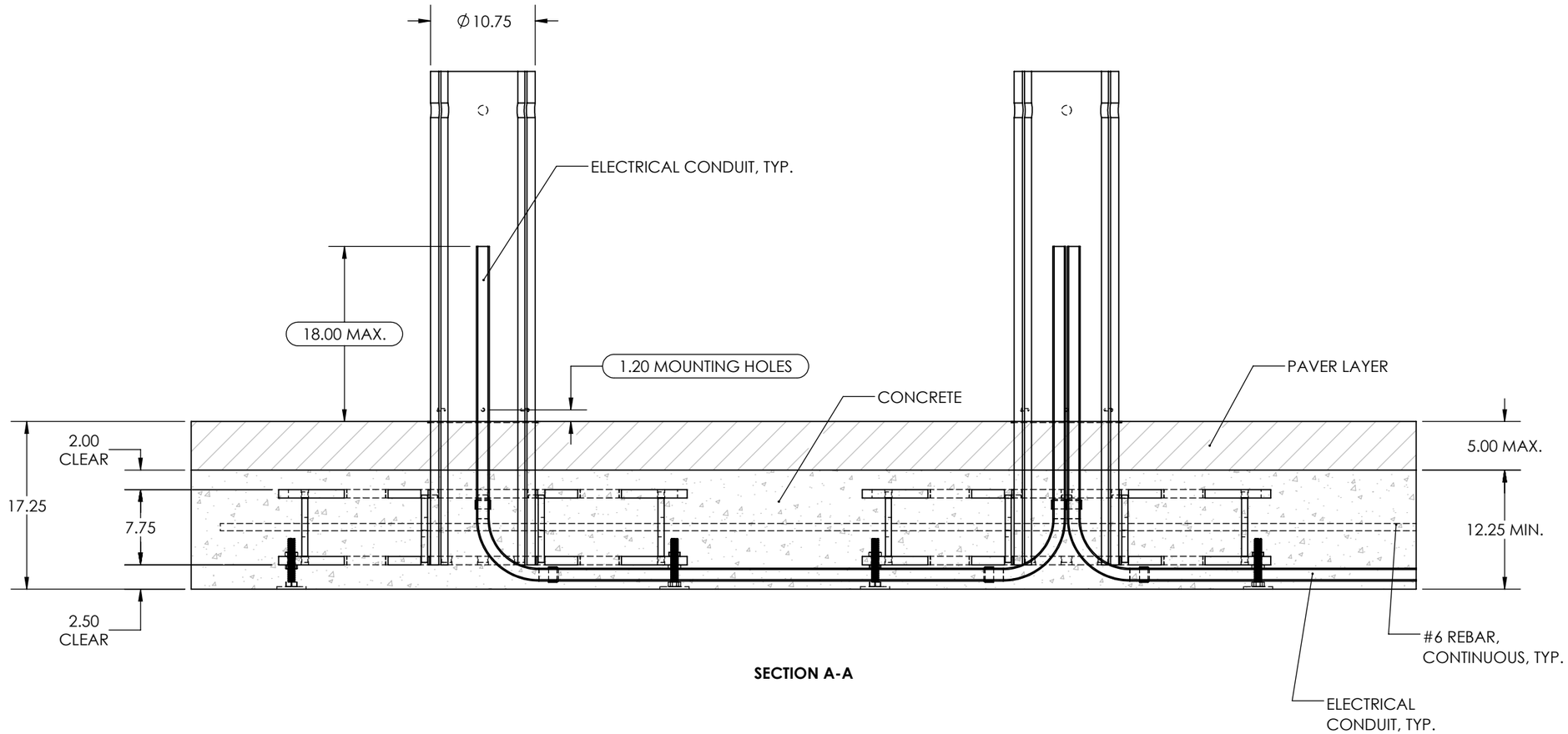
DESCRIPTION:

FORMS+SURFACES

M50-P1 SHALLOW SECURITY CORE

STRIP FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-SH-STR-PV-INSTALL	0	1 OF 4



SECTION A-A

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TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

FORMS+SURFACES
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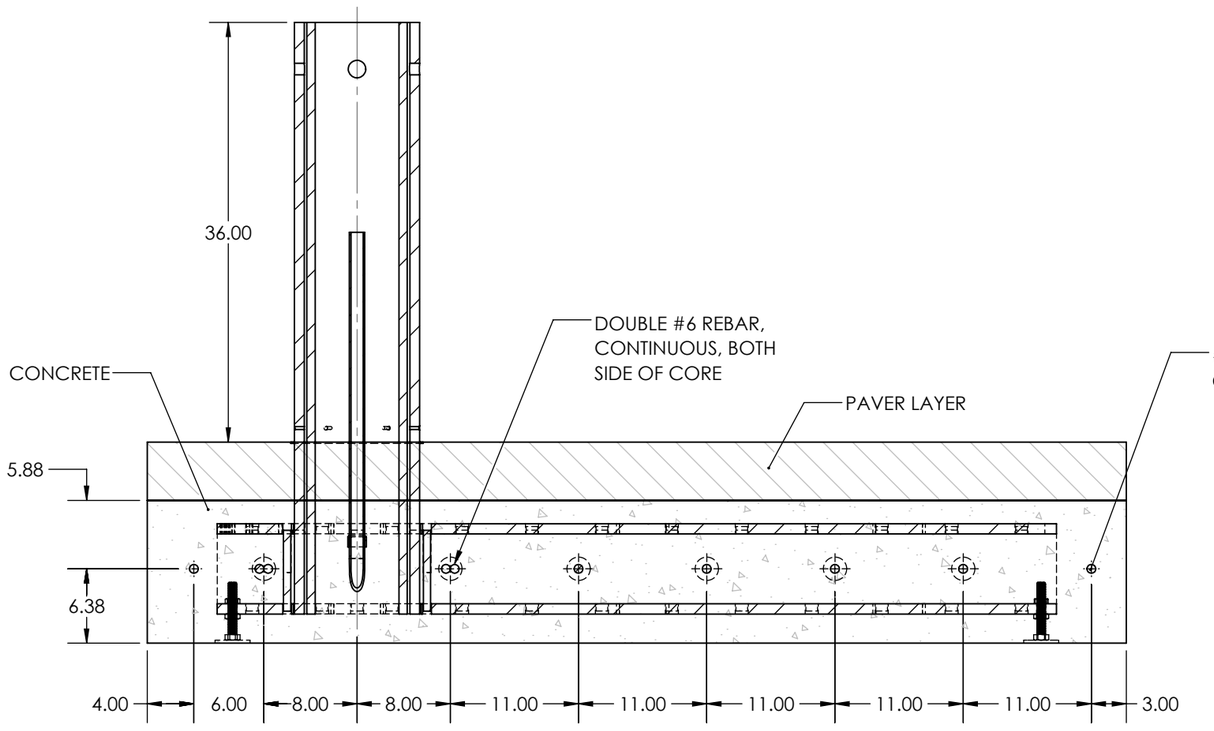
Tel (412) 781-9003 Fax (412) 781-7840

	NAME	DATE
DWN	JRF	07/07/2022
CHK		

DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M50-P1 SHALLOW SECURITY CORE
STRIP FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-SH-STR-PV-INSTALL	0	2 OF 4



SECTION B-B

NOTES:

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REBAR CHART	
BAR SIZE	**DIAMETER**
#6	Ø 0.750

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THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

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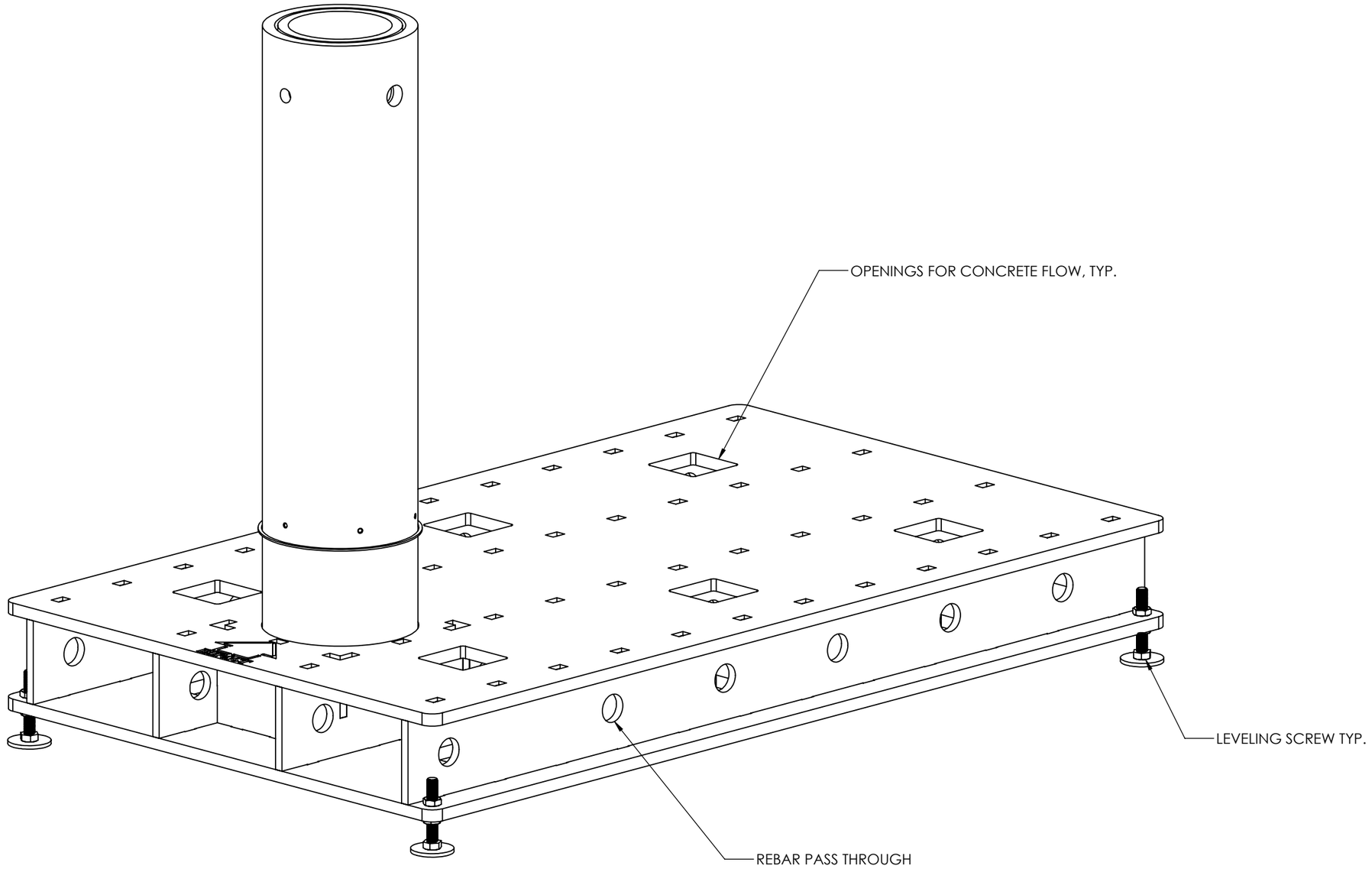
	NAME	DATE
DWN	JRF	07/07/2022
CHK		

DO NOT SCALE DRAWING

DESCRIPTION:
FORMS+SURFACES
M50-P1 SHALLOW SECURITY CORE STRIP FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-SH-STR-PV-INSTALL	0	3 OF 4



ISOMETRIC VIEW
SECURITY CORE WELDMENT

UNLESS OTHERWISE SPECIFIED:
1. PRIMARY DIM. ARE IN INCHES & SECONDARY [DIM] IN MM
2. TOLERANCES
FRACTIONAL: ±1/32 ; ANGULAR/BEND: ±1°
TWO PLACE DECIMAL ±.030
THREE PLACE DECIMAL ±.020
3.REMOVE ALL BURRS AND SHARP EDGES

THIRD ANGLE PROJECTION

MATERIAL: N/A

FINISH: N/A

WEIGHT: N/A

SCALE: NOT TO SCALE

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	NAME	DATE
DWN	JRF	07/07/2022
CHK		

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DESCRIPTION:
FORMS+SURFACES
M50-P1 SHALLOW SECURITY CORE
STRIP FOUNDATION, WITH PAVER

SIZE	DWG. NO.	REV	SHEET
B	M50-SH-STR-PV-INSTALL	0	4 OF 4