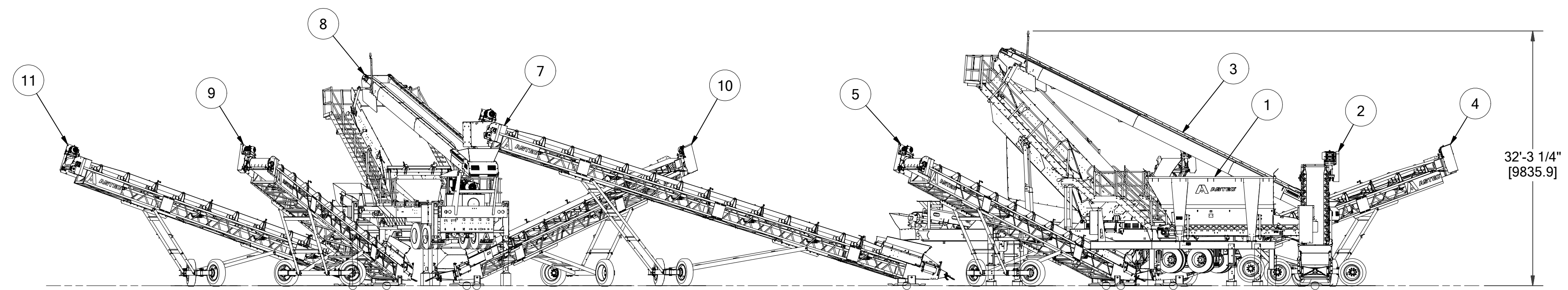
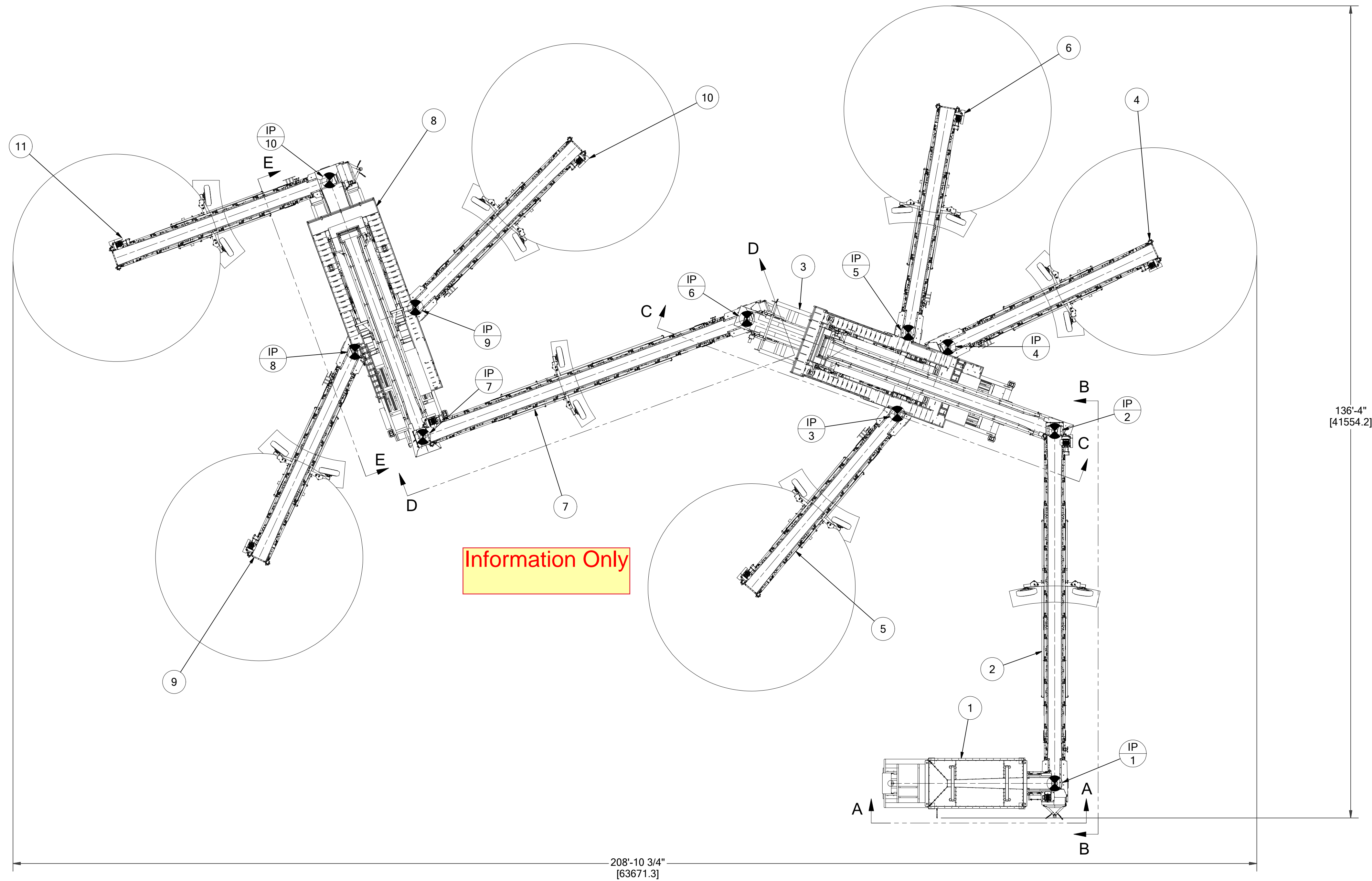
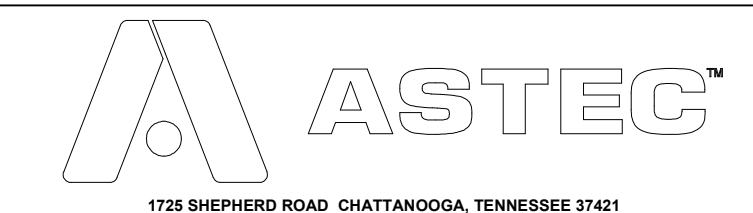


ITEM	PART NO.	DESCRIPTION
1	421186	PORTABLE HOPPER/FEEDER; 936-18-20
2	421187	CONVEYOR; KD11-3060
3	368-000-245681	PTSC 3618VM
4	421188	CONVEYOR; MODEL KD-3040
5	421189	CONVEYOR; MODEL KD-3040
6	421190	CONVEYOR; MODEL KD-3040
7	421191	CONVEYOR; KD11-3060
8	268-000-245682	PTSC 2618VM
9	421192	CONVEYOR; MODEL KD-3040
10	421193	CONVEYOR; MODEL KD-3040
11	421194	CONVEYOR; MODEL KD-3040

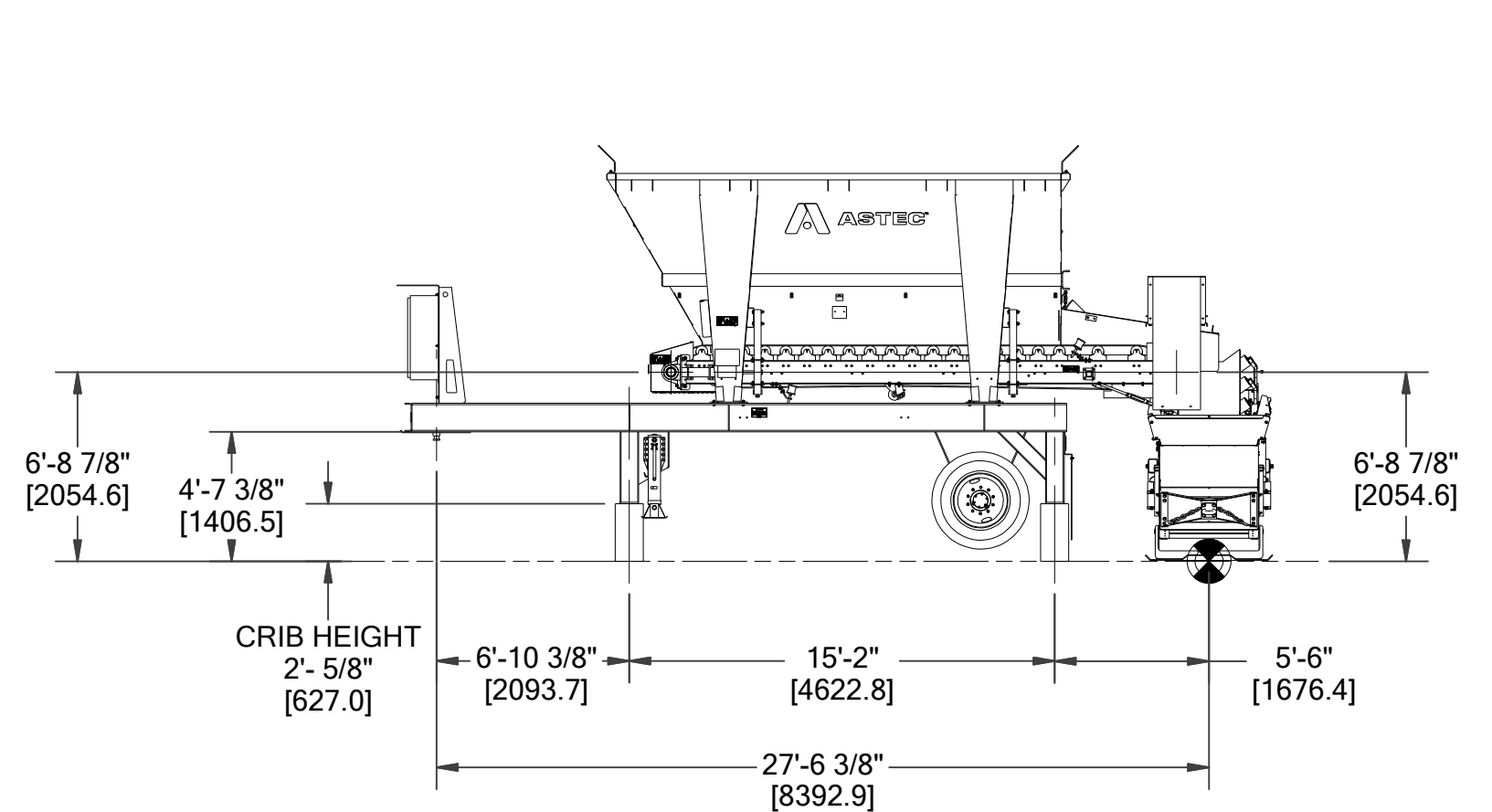


NOTICE: THIS PRINT IS THE PROPERTY OF ASTEC INDUSTRIES, INC. AND IS SUBJECT TO RECALL AT ANY TIME, AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THEIR INTEREST.

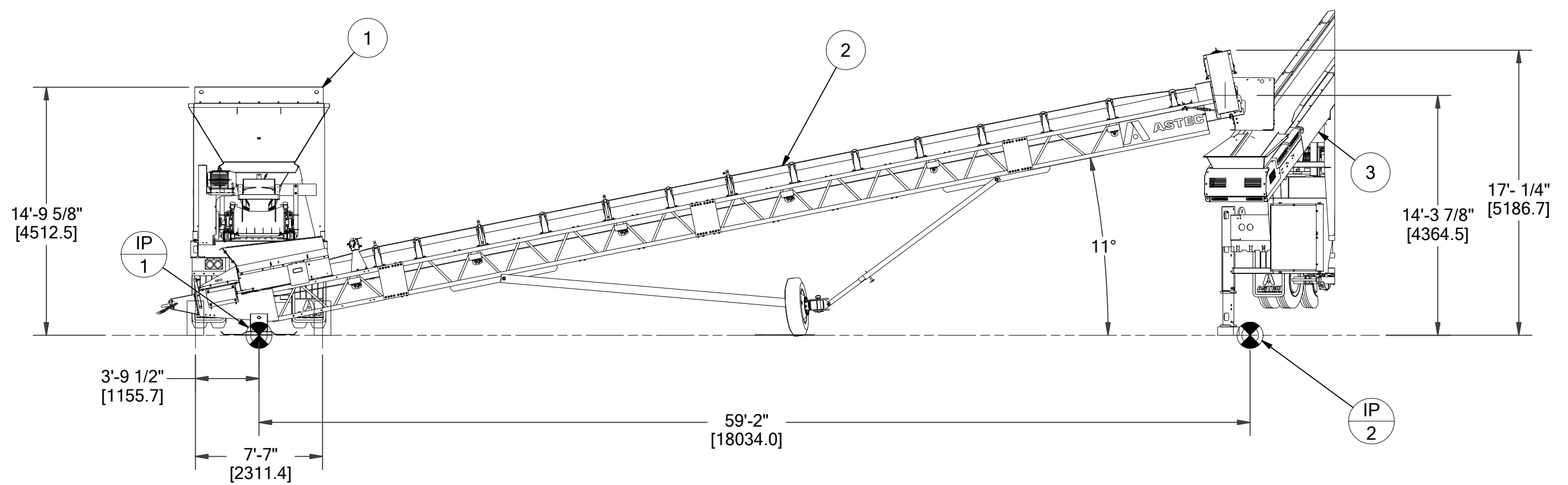


WEIGHT		UNLESS NOTED OTHERWISE, TOLERANCES ARE TO BE PER DESIGN ENGINEERING STANDARD DE 455.	
MATERIAL		TITLE BERMUDA MINISTRY OF PUBLIC WORKS	
MODELED		PLAN VIEW	
STO	DATE 7/8/2024	SCALE	DRAWING NUMBER 61102255
DRAWN	DATE 7/8/2024	1 / 125	SHEET 1 / 3

NO	REVISION	DATE	BY	EDW
REVISIONS AND PATTERN CHANGES				

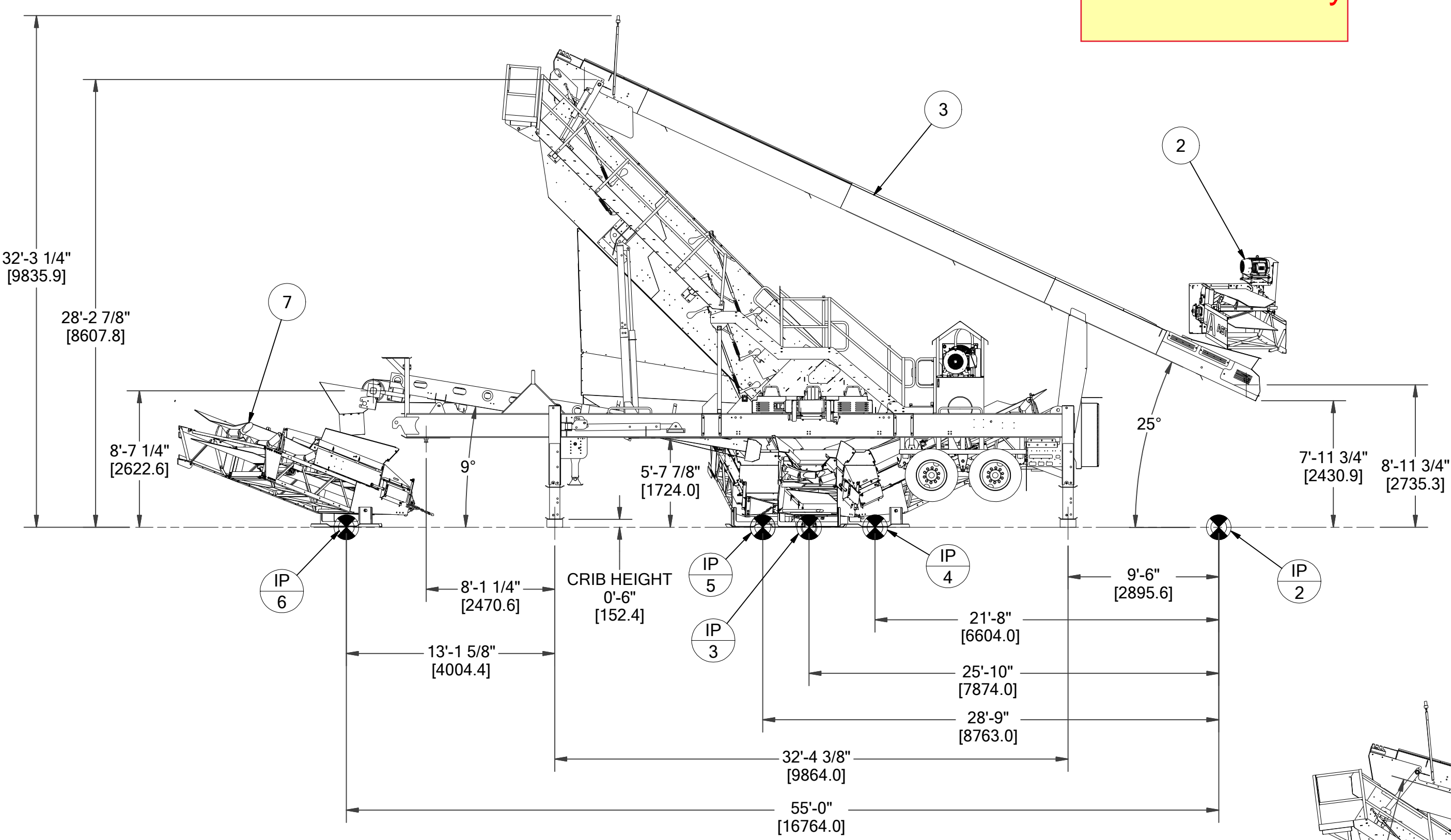


VIEW A-A
SCALE 1 / 75

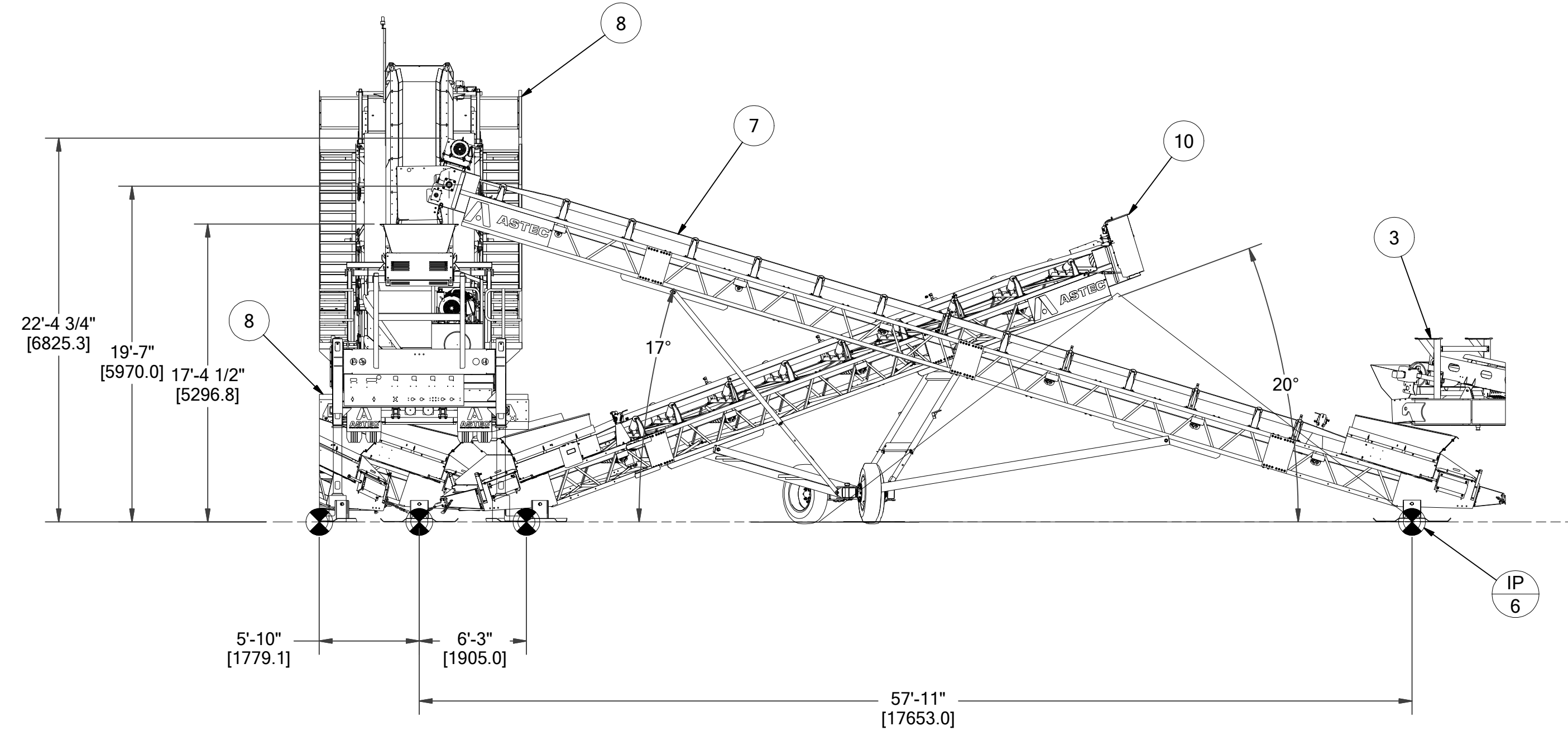


SECTION B-B
SCALE 1 / 75

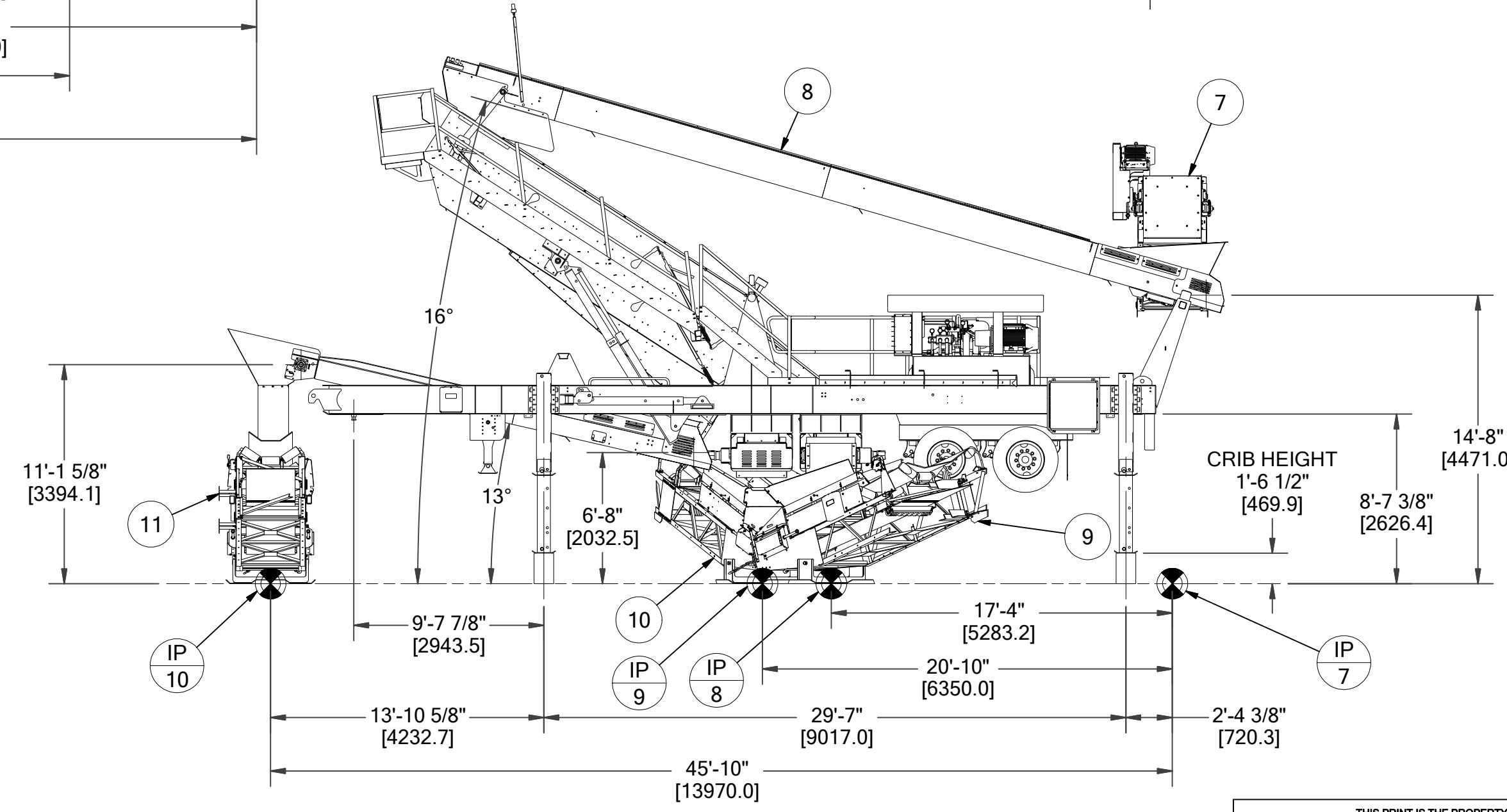
Information Only



SECTION C-C
SCALE 1 / 75

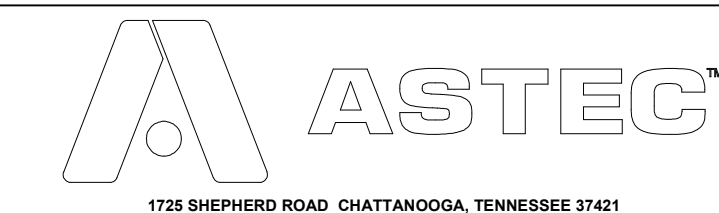


SECTION D-D
SCALE 1 / 75



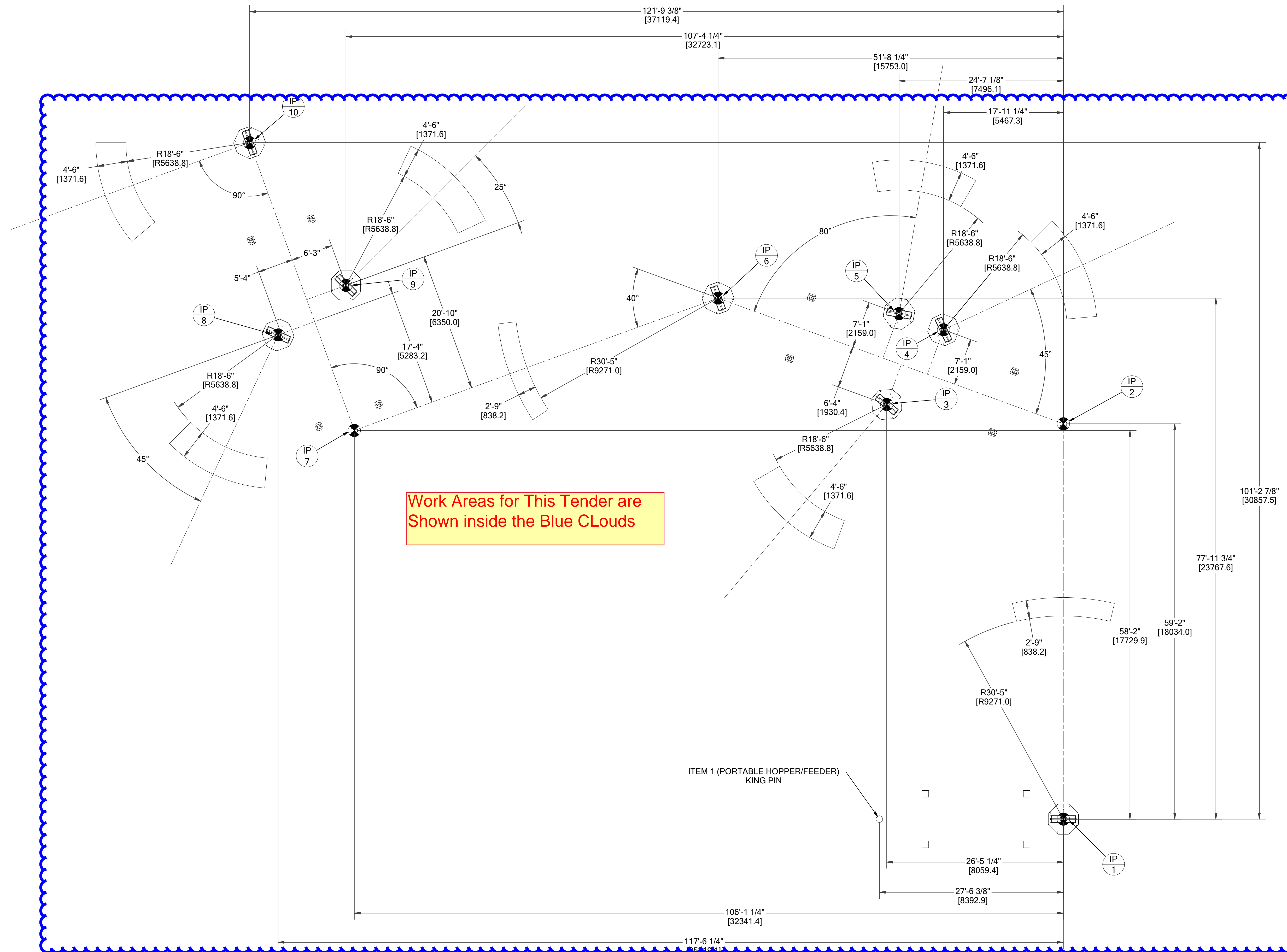
SECTION E-E
SCALE 1 / 75

NOTICE: THIS PRINT IS THE PROPERTY OF ASTEC INDUSTRIES, INC. AND IS SUBJECT TO RECALL AT ANY TIME, AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THEIR INTEREST.



1725 SHEPHERD ROAD, CHATTANOOGA, TENNESSEE 37421

WEIGHT		UNLESS NOTED OTHERWISE, TOLERANCES ARE TO BE PER DESIGN ENGINEERING STANDARD DE 455.	
MATERIAL		TITLE BERMUDA MINISTRY OF PUBLIC WORKS	
MODELLED DATE 7/8/2024		ELEVATIONS	
DRAWN DATE 7/8/2024		SCALE 1 / 75	DRAWING NUMBER 61102255
			SHEET 2 / 3



Work Areas for This Tender are Shown inside the Blue Clouds

ITEM 1 (PORTABLE HOPPER/FEEDER)
KING PIN

NOTICE: THIS PRINT IS THE PROPERTY OF ASTEC INDUSTRIES, INC. AND IS SUBJECT TO RECALL AT ANY TIME, AND IS NOT TO BE USED IN ANY WAY DETRIMENTAL TO THEIR INTEREST.



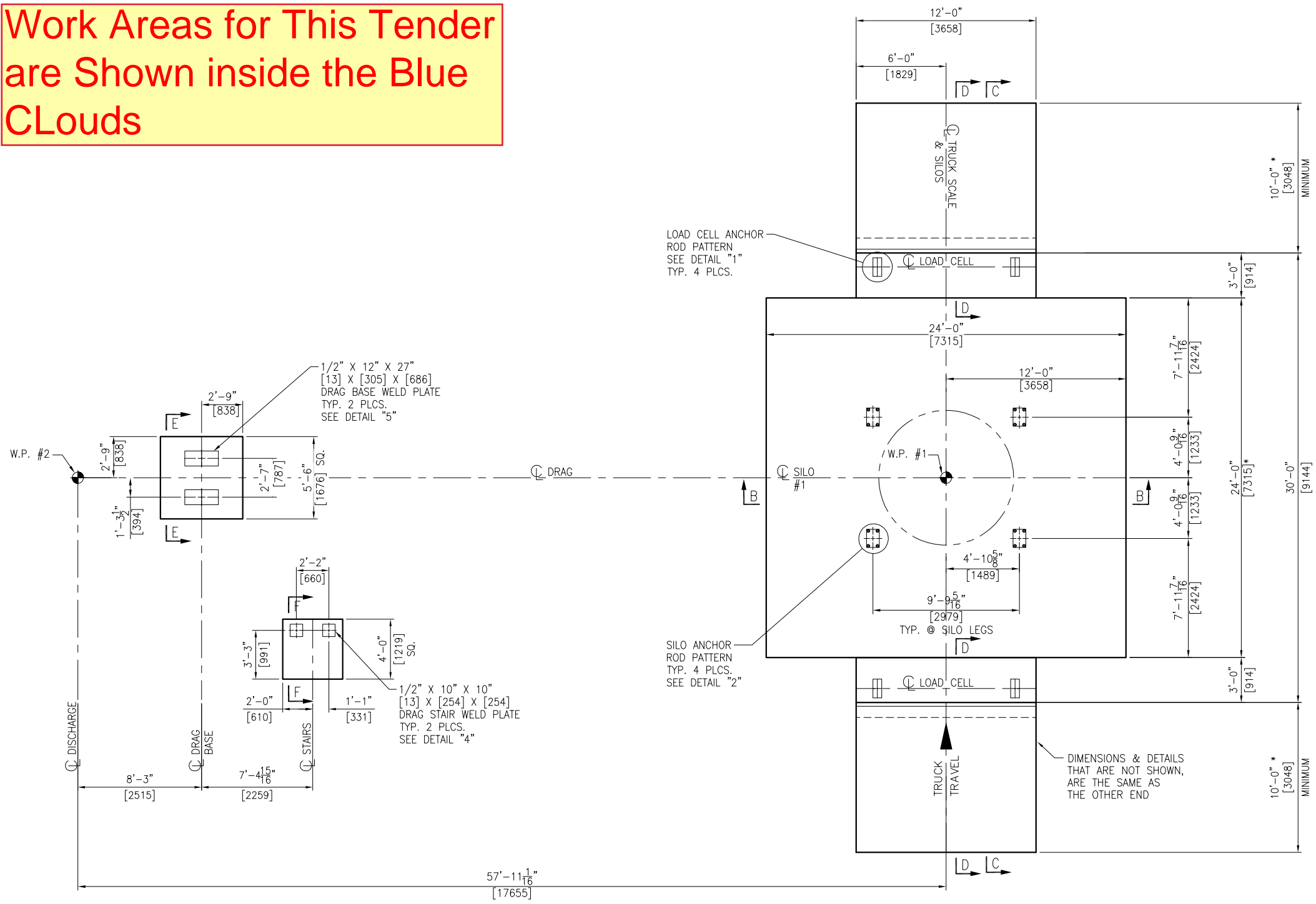
1725 SHEPHERD ROAD, CHATTANOOGA, TENNESSEE 37421

MATERIAL		TITLE	
STO		BERMUDA MINISTRY OF PUBLIC WORKS	
MODELED		DATE	
STO		7/8/2024	
DRAWN		SCALE	
STO		7/8/2024	
DRAWING NUMBER		SHEET	
61102255		3	

NO	REVISION	DATE	BY	EDN
REVISIONS AND PATTERN CHANGES				

Work Areas for This Tender are Shown inside the Blue Clouds

- NOTES:**
- FOUNDATIONS SHOWN HEREIN ARE DESIGNED FOR A MINIMUM SOIL BEARING PRESSURE OF 2,000 PSF. THE CUSTOMER IS RESPONSIBLE TO ENSURE THAT THE ALLOWABLE SOIL BEARING PRESSURE AT THE SITE EQUALS OR EXCEEDS THE DESIGN VALUE.
 - CONCRETE: F'C = 4,000 P.S.I. @ 28 DAYS UNLESS NOTED OTHERWISE
 - REINF. STEEL: ASTM-A615, GRADE 60
 - EMBEDDED BOLTS, EMBEDDED PLATES, HEX NUTS AND ANCHOR RODS FURNISHED BY CUSTOMER. BOLTS/RODS ARE TO BE A MINIMUM 58,000 PSI TENSILE STRENGTH. NELSON STUDS ARE NOT PERMITTED TO BE USED.
 - BENCHMARK ELEVATION 100'-0" [30480] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR DRAG BASE FOUNDATION.
 - A FLATNESS TOLERANCE OF $\pm 1/8"$ [3] OVER 10'-0" [3048] IS TO BE MAINTAINED FOR ALL CONCRETE SLAB SURFACES
 - PROVIDE 12" [305] MIN. OF A WELL DRAINING GRANULAR BASE BELOW CONCRETE FOOTING.
 - WORK THIS DRAWING WITH DWGS. F24-090-02.
 - CONTRACTOR MAY USE #4 REBAR @ ~ 12" [305] CTRS. EACH WAY IN LIEU OF 4 X 4-W6 X W6 WWF.
 - THE OWNER IS RESPONSIBLE FOR GRADING THE SURROUNDING AREA (DETERMINED BY LOCAL TOPOGRAPHY) TO PROVIDE FOR DRAINAGE AWAY FROM EQUIPMENT.
 - FOUNDATION DRAWINGS SHOWN HEREIN HAVE BEEN DESIGNED FOR THE HAMILTON, BERMUDA SITE (W.O. 24-090) AND SHALL BE VOIDED FOR USE AT ANY OTHER SITE.
 - DO NOT SCALE. THIS DRAWING MAY BE A REDUCED COPY.



REBAR CONVERSION CHART

	IMPERIAL BAR DIA.	METRIC BAR DIA.
#4	.500	12.7
#6	.75	19
#8	1"	25.4
#9	1.125"	28.5

* CUSTOMER MUST ENSURE TRUCK APPROACH LENGTH COMPLIES WITH STATE AND LOCAL REGULATIONS

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

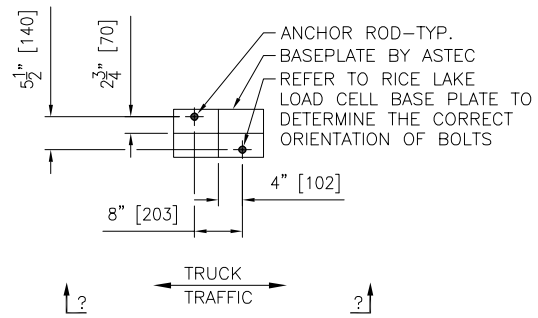
PLAN VIEW

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
MACHINING (+0.010") - STRUCTURAL ($\pm 1/8"$) - WELD SIZE (-0", +1/8").
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AND USE OR COPIES THEREOF CANNOT BE MADE WITHOUT WRITTEN CONSENT.

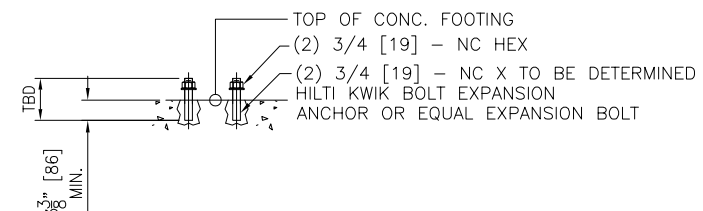
F24090-01.00

NO	REVISION	APPR	BY	DATE
4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION PLAN				
MACHINE NGW-150 (2) 150T 12'Ø NEW GENERATION STORAGE SILO				
DWN	GREG WILLIAMS	CHKD	APPR	DATE 06/07/24
JOB NO	24-090	SHEET	SCALE 1/4"=1'-0"	DWG NO F24-090-01
		SIMILAR TO DWG.	NONE	REV 0

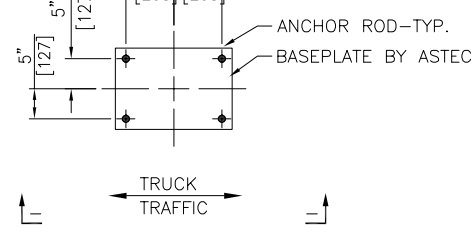
NOTES:
1. FOR NOTES SEE DWG. F24-090-01



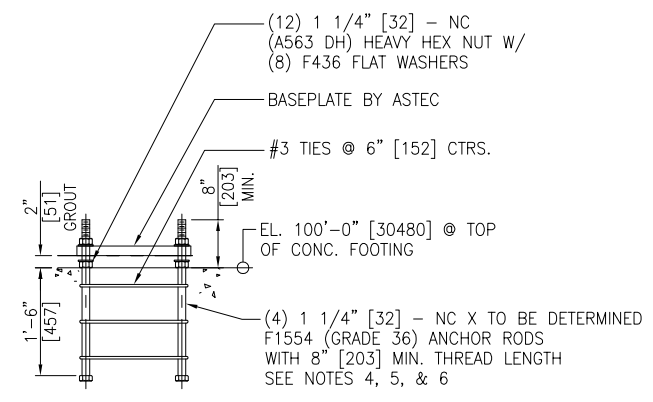
DETAIL "1"
(LOAD CELL ANCHOR ROD PATTERN)
TYP. AT EACH LOAD CELL
4 REQ'D. TOTAL
SCALED 3X



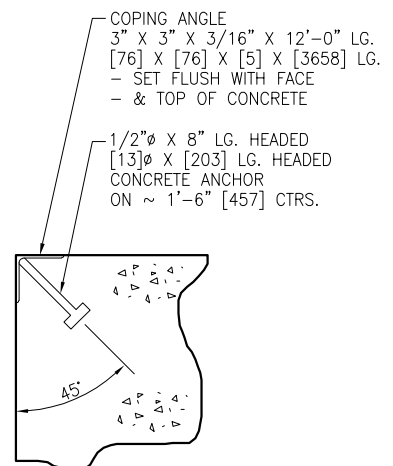
SECTION "A-A"
(TRUCK SCALE ANCHOR ROD)
TYP. AT EACH LOAD CELL
4 REQ'D. TOTAL
SCALED 3X



DETAIL "2"
(SILO LEG ANCHOR ROD PATTERN)
TYP. 4 PLCS. FOR EA. 12'Ø 100T SILO
4 REQ'D. TOTAL
SCALED 3X

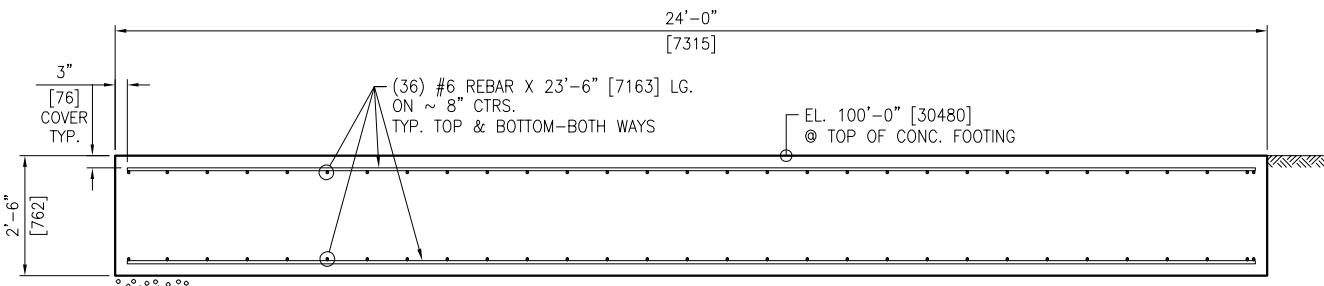


SECTION "A-A"
TYP. 4 PLCS. FOR EA. 12'Ø 100T SILO
TYP. 4 PLCS.
SCALED 3X



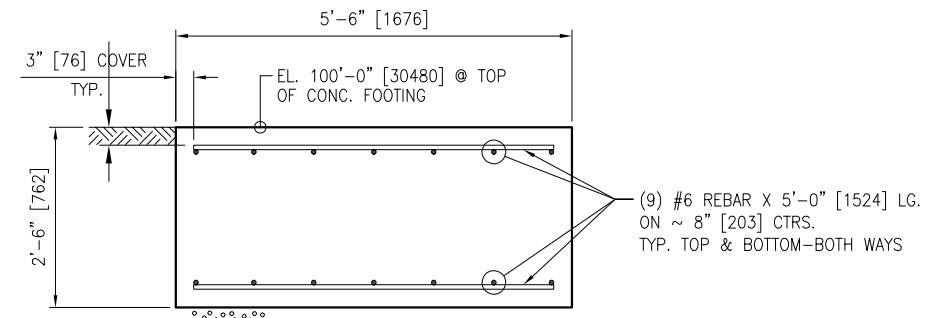
DETAIL "3"
SCALED 8X

Work Areas for This Tender
are Shown inside the Blue
Clouds

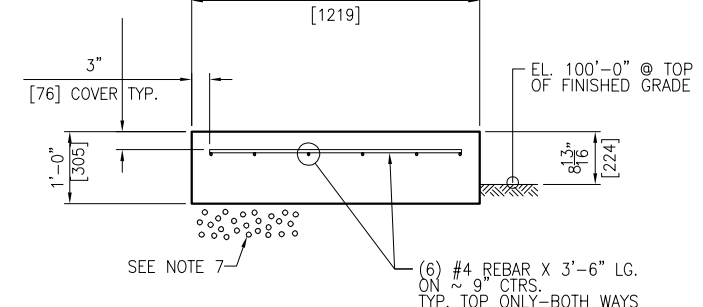


MIN. LAP SPLICE:
#8 REBAR = 36" [914] TOP
#8 REBAR = 28" [711] BOTTOM

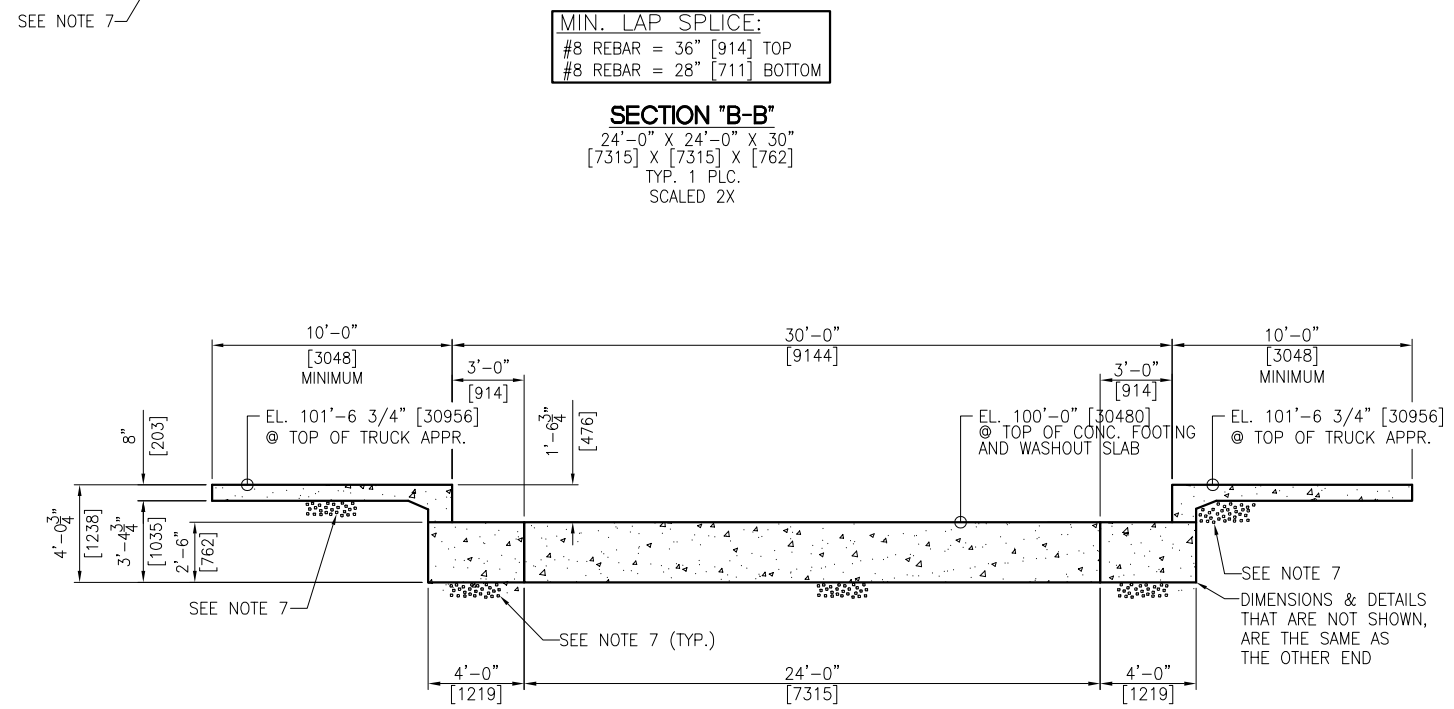
SECTION "B-B"
24'-0" X 24'-0" X 30"
[7315] X [7315] X [762]
TYP. 1 PLC.
SCALED 2X



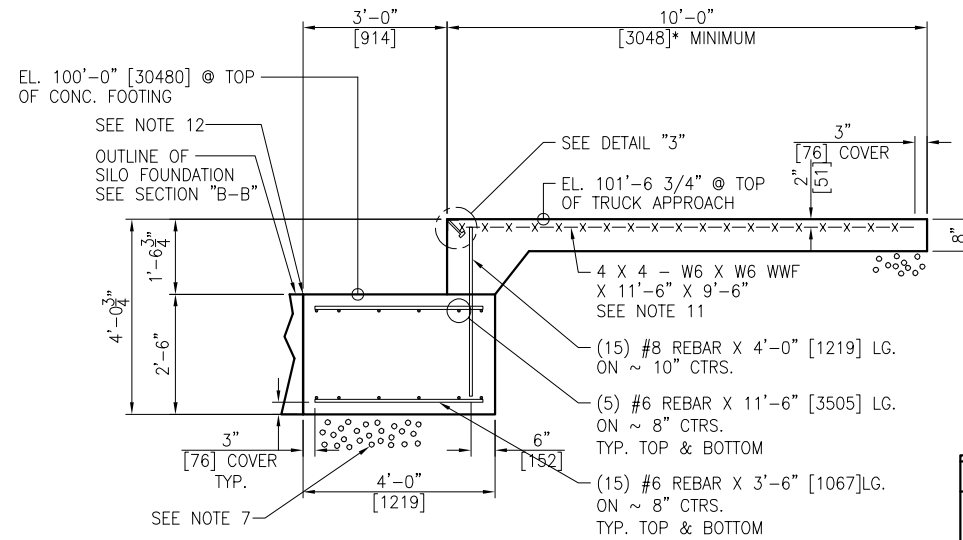
SECTION "E-E"
5'-6" X 5'-6" X 36"
[1676] X [1676] X [914]
TYP. 1 PLC.
SCALED 3X



SECTION "F-F"
4'-0" X 4'-0" X 12"
TYP. 1 PLC.
SCALED 3X



SECTION "C-C"
TYP. 1 PLC.



SECTION "D-D"
TRUCK SCALE ENDS
TYP. 2 PLCS.
SCALED 2X

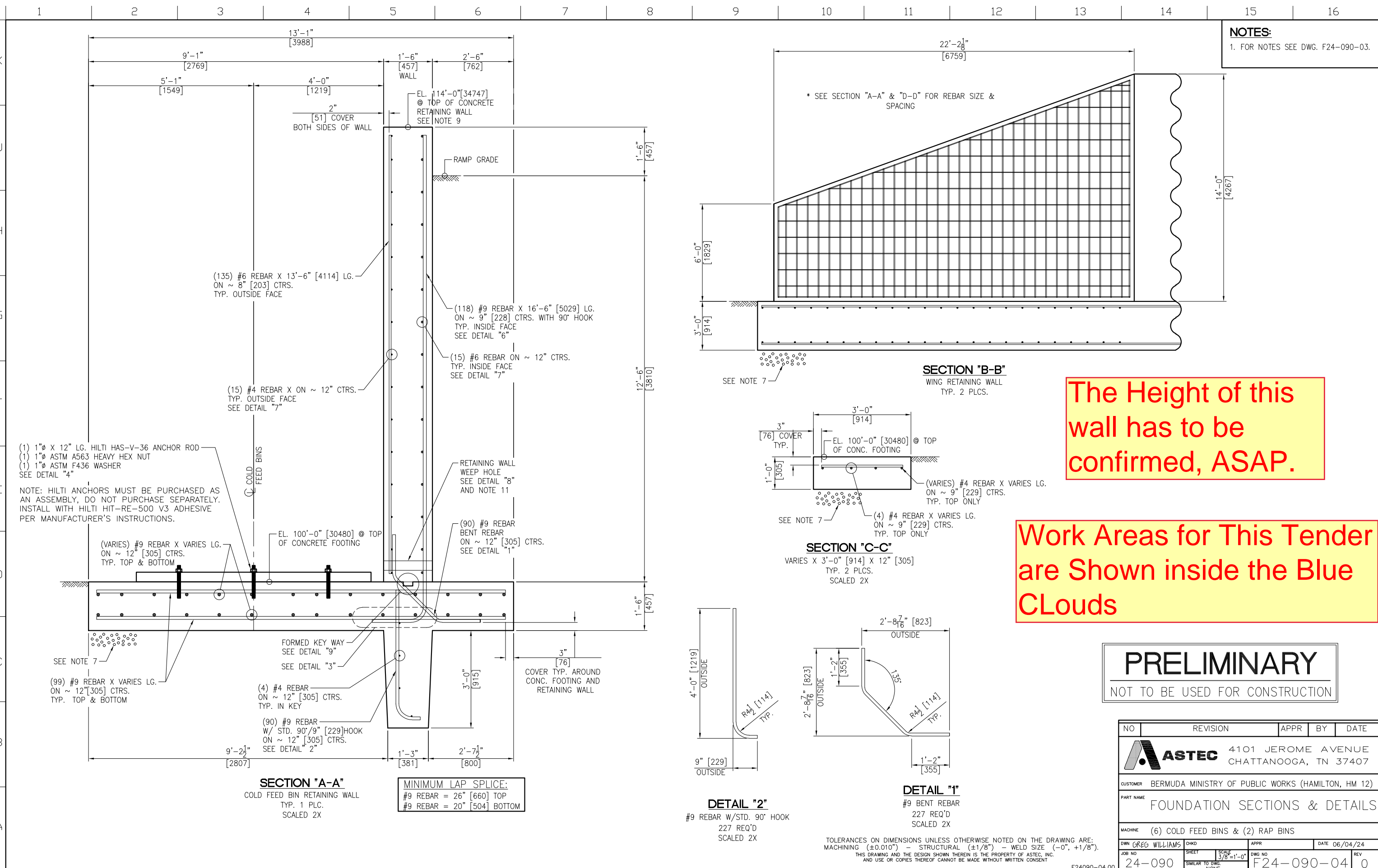
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

* CUSTOMER MUST ENSURE TRUCK APPROACH LENGTH COMPLIES WITH STATE & LOCAL REGULATIONS

NO	REVISION	APPR	BY	DATE
4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, BERMUDA)				
PART NAME FOUNDATION SECTIONS & DETAILS				
MACHINE NGW-150 (2) 150T 12'Ø NEW GENERATION STORAGE SILO				
DWN GREG WILLIAMS	CHKD	APPR	DATE 05/23/24	
JOB NO 24-090	SHEET 1/4 = 1'-0"	SCALE NONE	DWG NO F24-090-02	REV 0

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
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F24090-02.00



NOTES:
 1. FOR NOTES SEE DWG. F24-090-03.

The Height of this wall has to be confirmed, ASAP.

Work Areas for This Tender are Shown inside the Blue Clouds

PRELIMINARY
 NOT TO BE USED FOR CONSTRUCTION

NO	REVISION	APPR	BY	DATE
ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, HM 12)				
PART NAME FOUNDATION SECTIONS & DETAILS				
MACHINE (6) COLD FEED BINS & (2) RAP BINS				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/04/24	
JOB NO 24-090	SHEET 3/8 = 1'-0"	DWG NO F24-090-04	REV 0	

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
 MACHINING (+0.010") - STRUCTURAL (+1/8") - WELD SIZE (-0", +1/8").
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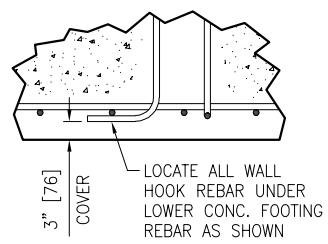
F24090-04.00

Work Areas for This Tender are Shown inside the Blue Clouds

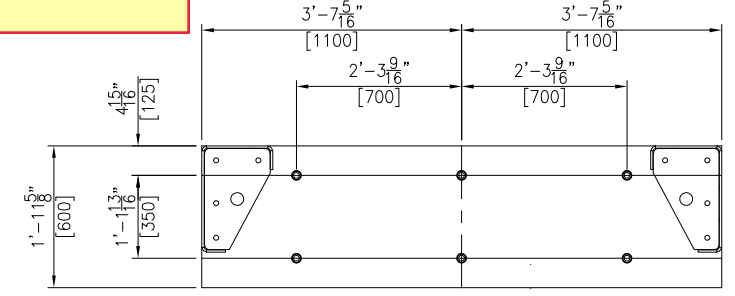
NOTES:
1. FOR NOTES SEE DWG. F24-090-03.

J
H
G
F
E
D
C
B
A

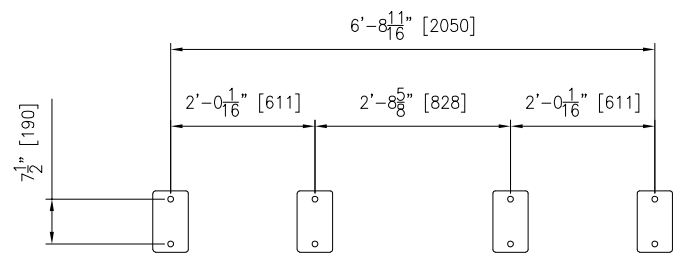
5 6 7 8 9 10 11 12 13 14 15 16



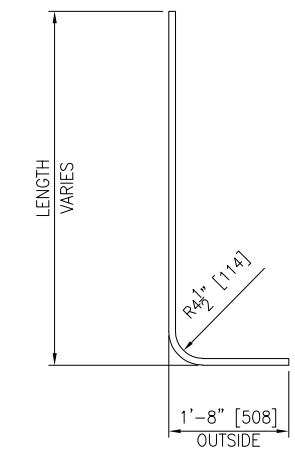
DETAIL "3"
SCALED 2X



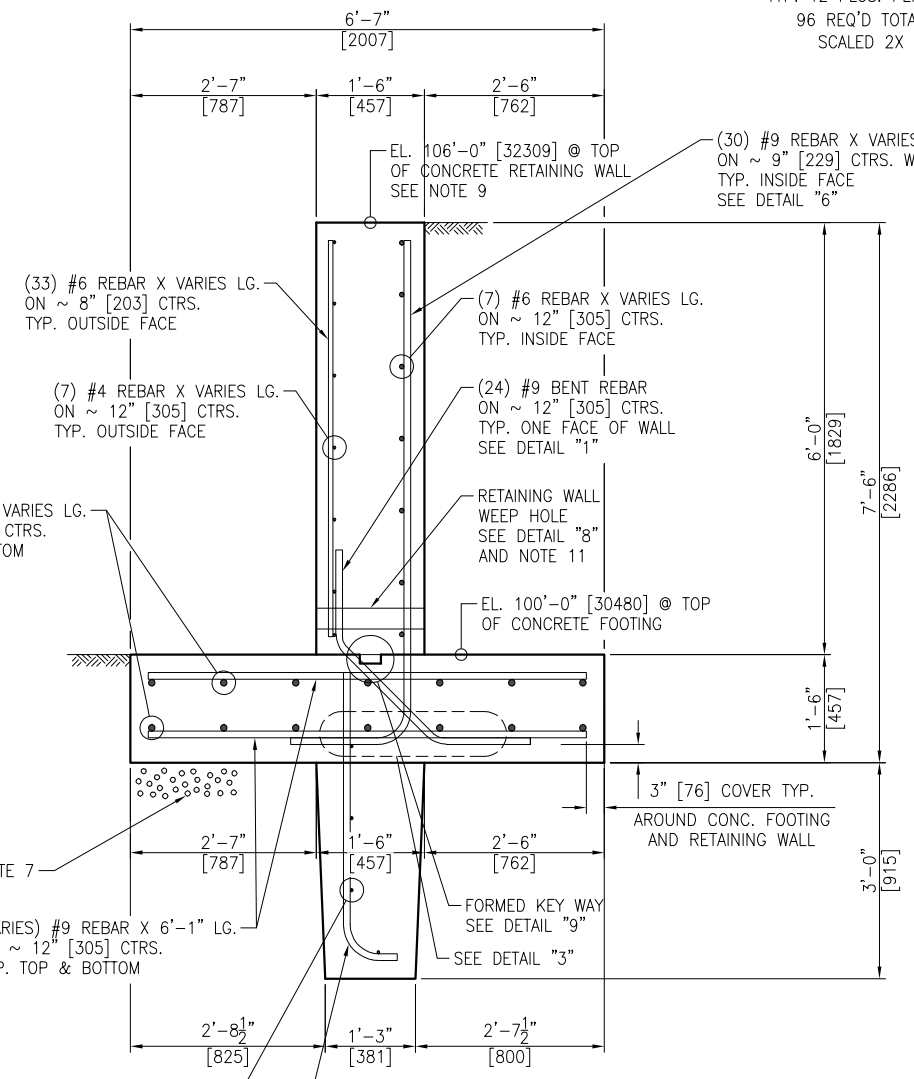
DETAIL "4"
BIN ANCHOR SPACING
TYP. 12 PLCS. PER BIN
96 REQ'D TOTAL
SCALED 2X



DETAIL "5"
SCALED 2X

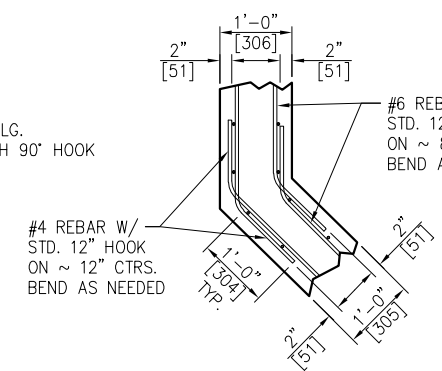


DETAIL "6"
#9 REBAR W/STD. 90° HOOK
214 REQ'D
SCALED 2X

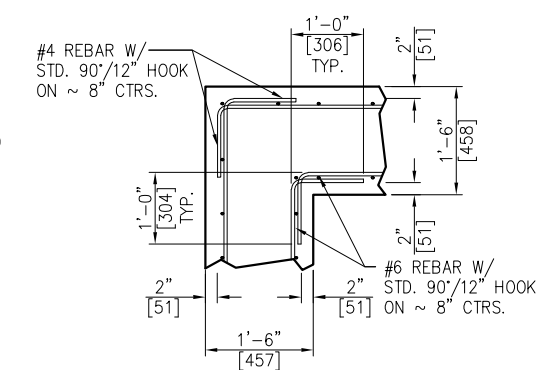


SECTION "D-D"
WING WALL
TYP. 2 PLCS.
SCALED 2X

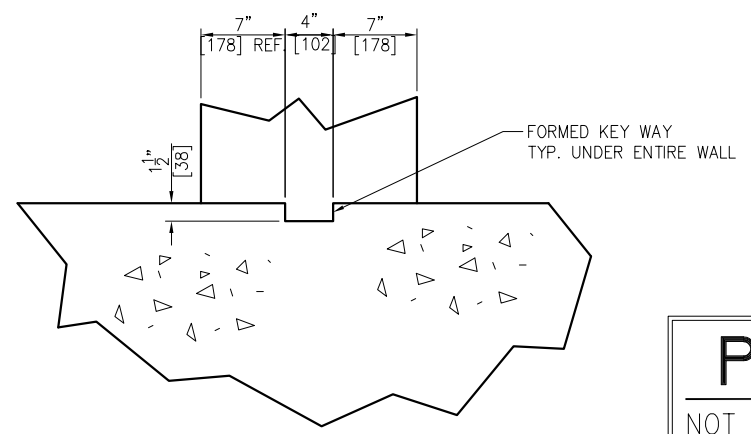
MINIMUM LAP SPLICE:
#9 REBAR = 26" [660] TOP
#9 REBAR = 20" [504] BOTTOM



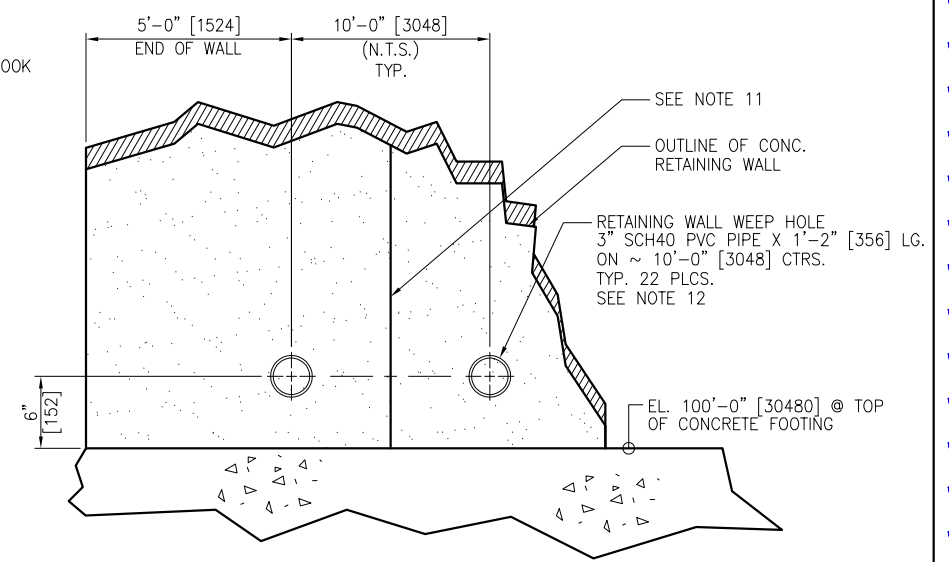
DETAIL "7"
TYP. WALL DETAIL @ CORNERS
TYP. 2 PLCS.
SCALED 2X



DETAIL "2"
TYP. WALL DETAIL @ 90° CORNER
TYP. 1 PLC.
SCALED 2X



DETAIL "9"
TYP. UNDER ENTIRE WALL
SCALED 4X



DETAIL "8"
COLD FEED BIN RETAINING WALL WEEP HOLE
TYP. 1 PLCS.
SCALED 4X

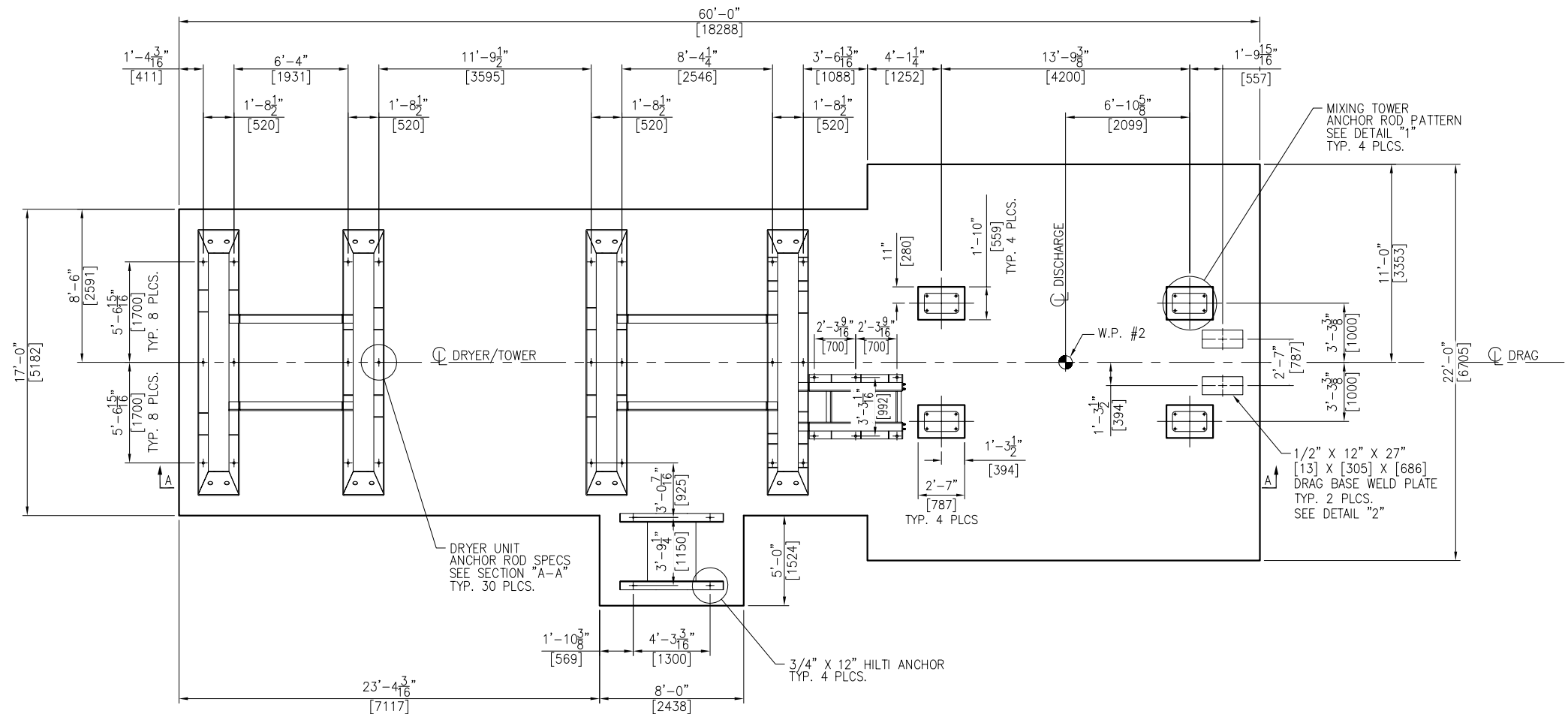
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
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AND USE OR COPIES THEREOF CANNOT BE MADE WITHOUT WRITTEN CONSENT.

NO	REVISION	APPR	BY	DATE
4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, HM 12)				
PART NAME FOUNDATION SECTIONS & DETAILS				
MACHINE (6) COLD FEED BINS & (2) RAP BINS				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/04/24	
JOB NO 24-090	SHEET 3/8 = 1'-0"	DWG NO F24-090-05	REV 0	

Work Areas for This Tender are Shown inside the Blue Clouds

- NOTES:**
- FOUNDATIONS SHOWN HEREIN ARE DESIGNED FOR A MINIMUM SOIL BEARING PRESSURE OF 2,000 PSF. THE CUSTOMER IS RESPONSIBLE TO ENSURE THAT THE ALLOWABLE SOIL BEARING PRESSURE AT THE SITE EQUALS OR EXCEEDS THE DESIGN VALUE.
 - CONCRETE: F'C = 4,000 P.S.I. @ 28 DAYS UNLESS NOTED OTHERWISE
 - REINF. STEEL: ASTM-A615, GRADE 60
 - EMBEDDED BOLTS, EMBEDDED PLATES, HEX NUTS AND ANCHOR RODS FURNISHED BY CUSTOMER. BOLTS/RODS ARE TO BE A MINIMUM 58,000 PSI TENSILE STRENGTH. NELSON STUDS ARE NOT PERMITTED TO BE USED.
 - BENCHMARK ELEVATION 100'-0" [30480] TO BE ESTABLISHED @ TOP OF FINISHED CONCRETE NEAR DRAG BASE FOUNDATION.
 - A FLATNESS TOLERANCE OF ±1/8" [3] OVER 10'-0" [3048] IS TO BE MAINTAINED FOR ALL CONCRETE SLAB SURFACES
 - PROVIDE 12" [305] MIN. OF A WELL DRAINING GRANULAR BASE BELOW CONCRETE FOOTING.
 - WORK THIS DRAWING WITH DWGS. F24-090-07.
 - REBAR LENGTHS MAY VARY DUE TO ANGLES AND OR NOTCHED OUT AREAS IN THE CONC. FOOTING. CUT REBAR AS NEEDED.
 - THE OWNER IS RESPONSIBLE FOR GRADING THE SURROUNDING AREA (DETERMINED BY LOCAL TOPOGRAPHY) TO PROVIDE FOR DRAINAGE AWAY FROM EQUIPMENT.
 - FOUNDATION DRAWINGS SHOWN HEREIN HAVE BEEN DESIGNED FOR THE HAMILTON, BERMUDA SITE (W.O. 24-090) AND SHALL BE VOIDED FOR USE AT ANY OTHER SITE.
 - DO NOT SCALE. THIS DRAWING MAY BE A REDUCED COPY.



PLAN VIEW

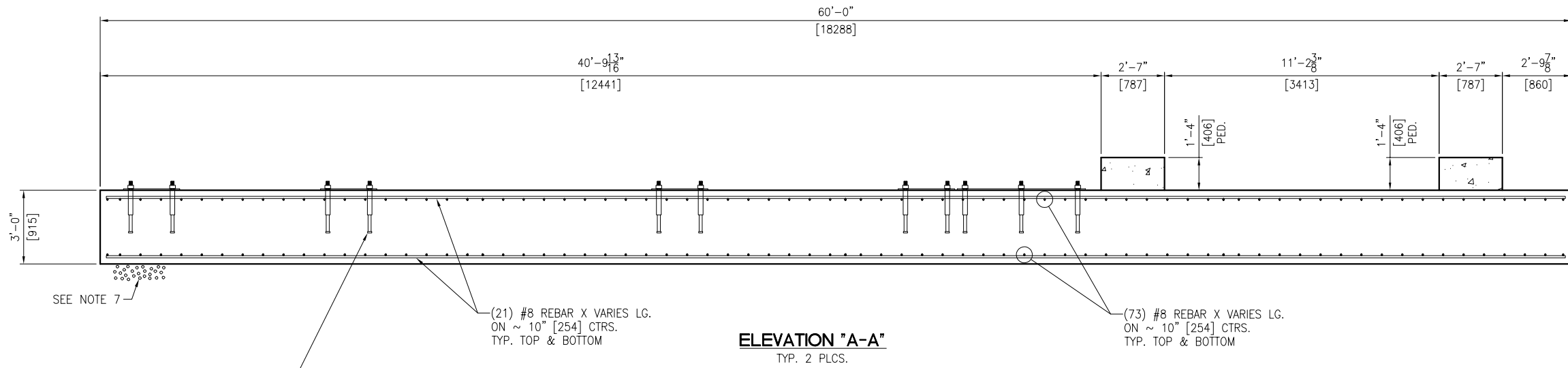
PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

REBAR CONVERSION CHART

	IMPERIAL BAR DIA.	METRIC BAR DIA
#4	.500	12.7
#6	.75	19
#8	1"	25.4
#9	1.125"	28.5

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
MACHINING (+0.010") - STRUCTURAL (±1/8") - WELD SIZE (-0", +1/8").
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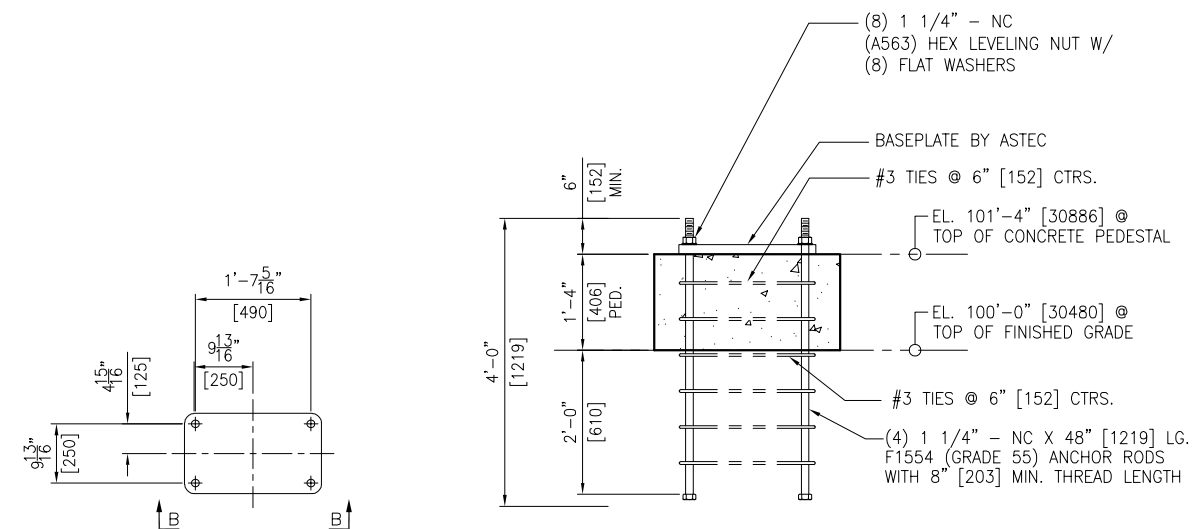
NO	REVISION	APPR	BY	DATE
4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, HM 12)				
PART NAME FOUNDATION PLAN				
MACHINE DRYER/TOWER				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/21/24	
JOB NO 24-090	SHEET 3/8 = 1'-0"	DWG NO F24-090-06	REV 0	



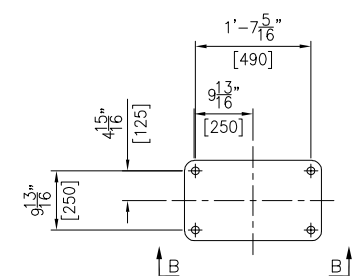
- (1) 1 1/2" Ø X 24" LG. ASTM F1554 HEADED ANCHOR WITH 6" THREAD LENGTH AT THE END
- (1) 1 1/2" Ø ASTM A563 HEAVY HEX NUT
- (1) 1 1/2" Ø ASTM F436 WASHER
- (24) PLACES FOR DRYER UNIT. 6 ANCHORS PER LEG.
- (6) PLACES FOR ELEVATOR. EMBED HEADED ANCHOR 8" [203] INTO CONCRETE. WILSON SLEEVE IS 12" [304] LG. (8D PER MANUFACTURER).

ELEVATION "A-A"
TYP. 2 PLCS.

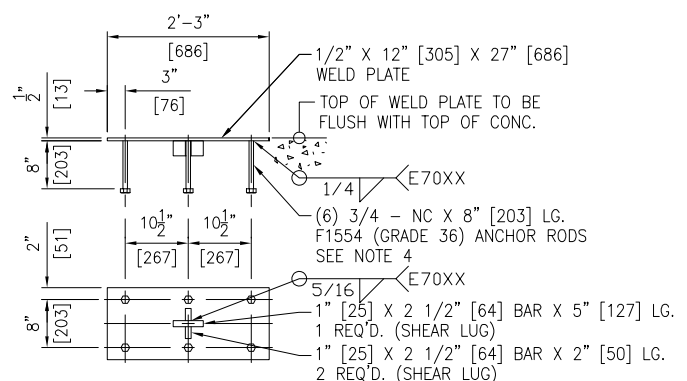
Work Areas for This Tender are Shown inside the Blue Clouds



SECTION "B-B"
TYP. 4 PLCS.
SCALED 2X



DETAIL "1"
TOWER LEG ANCHOR ROD PATTERN
TYP. 4 PLCS.
(BY CUSTOMER)
SCALED 2X



DETAIL "2"
2 REQ'D.
SCALED 2X

PRELIMINARY
NOT TO BE USED FOR CONSTRUCTION

TOLERANCES ON DIMENSIONS UNLESS OTHERWISE NOTED ON THE DRAWING ARE:
MACHINING (+0.010") - STRUCTURAL (+1/8") - WELD SIZE (-0", +1/8").
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AND USE OR COPIES THEREOF CANNOT BE MADE WITHOUT WRITTEN CONSENT.

NO	REVISION	APPR	BY	DATE
ASTEC 4101 JEROME AVENUE CHATTANOOGA, TN 37407				
CUSTOMER BERMUDA MINISTRY OF PUBLIC WORKS (HAMILTON, HM 12)				
PART NAME FOUNDATION SECTIONS & DETAILS				
MACHINE DRYER/TOWER				
DWN GREG WILLIAMS	CHKD	APPR	DATE 06/21/24	
JOB NO 24-090	SHEET 3/8=1'-0"	DWG NO F24-090-07	REV 0	