

MECHANICAL SHOP DRAWINGS

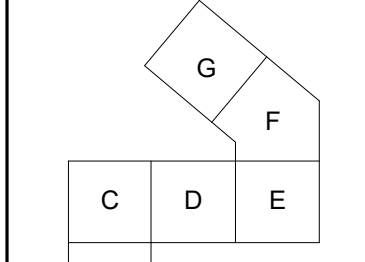


REVISIONS		SC
1	01-30-19	SC
2	03-18-19	SC
3	03-28-19	RSS
4	08-28-19	RSS
5	09-6-19	RSS
6	10-7-19	RSS
7	02-21-20	SC

PROJECT
SKY TRAIN - RCC STATION

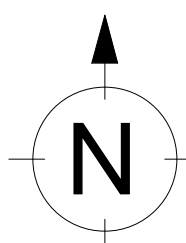
ISSUE DATE
12-19-2018
PROJECT MANAGER
J. KRHIN
DRAWN BY
MLP

SKY HARBOR AIRPORT
MECHANICAL DRAWINGS
LEVEL 1 AREA A
PLAN VIEW



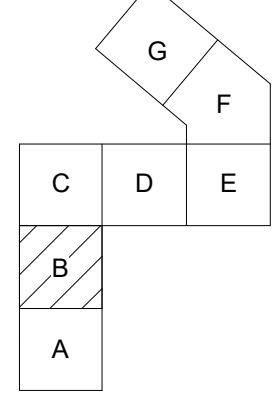
SHEET TITLE
A

SHEET NUMBER
MP-L1-A


$$1/4" = 1'-0"$$

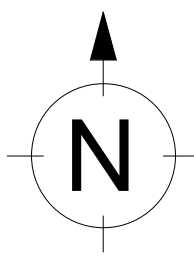
ALL COORDINATION TO BE DONE IN THE FIELD

SKY HARBOR AIRPORT
MECHANICAL DRAWINGS
LEVEL 1 AREA B
PLAN VIEW



MP-L1-B

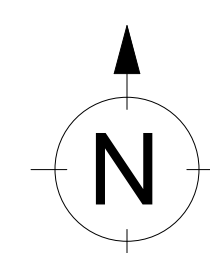




PLAN VIEW

ALL COORDINATION TO BE DONE IN THE FIELD

MP-L1-D



PLAN VIEW

ALL COORDINATION TO BE DONE IN THE FIELD

SKY HARBOR AIRPORT
MECHANICAL DRAWINGS
LEVEL 1 AREA E
PLAN VIEW



REVISIONS		
0	12-19-18	SC
1	01-30-19	SC
2	03-18-19	SC
3	03-28-19	RSS
4	08-28-19	SC
5	09-6-19	RSS
6	10-7-19	RSS

SKY TRAIN - RCC STATION

SKY TRAIN -
LOCATION
SKY HARBOR AIRPORT
PHOENIX AZ

ISSUE DATE
2 1 2 0 0 0

ISSUE DATE
2 1 2 0 0 0

PROJECT MANAGER
KRHIN

PROJECT MANAGER
KRHIN

MLP

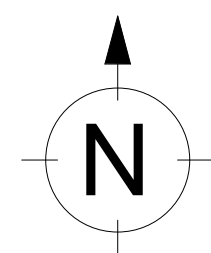
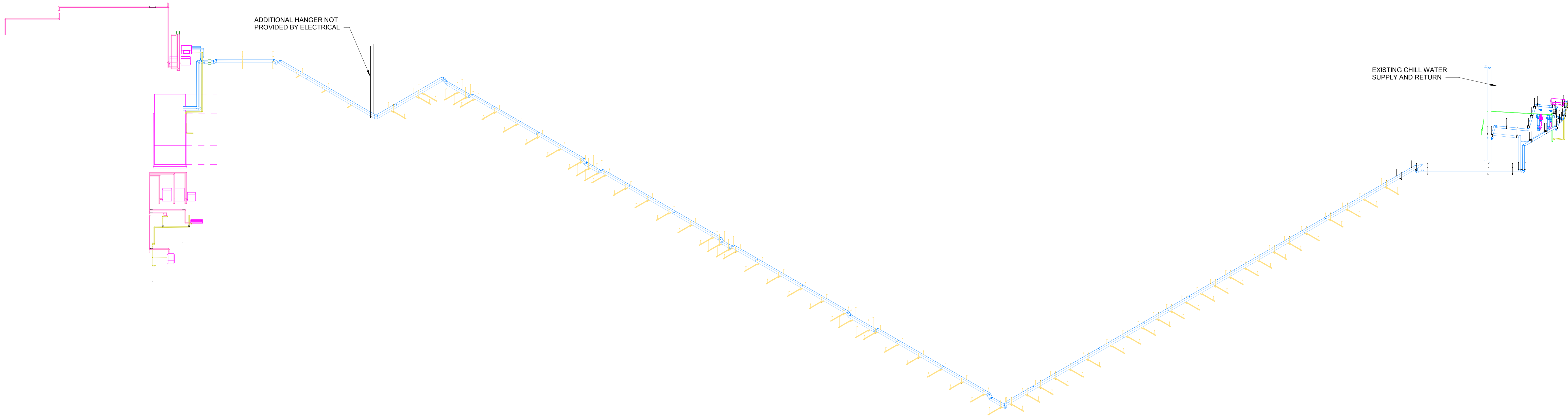
MLP

SKY HARBOR AIRPORT
MECHANICAL DRAWINGS
LEVEL 1 AREA F
PLAN VIEW

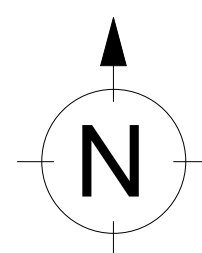
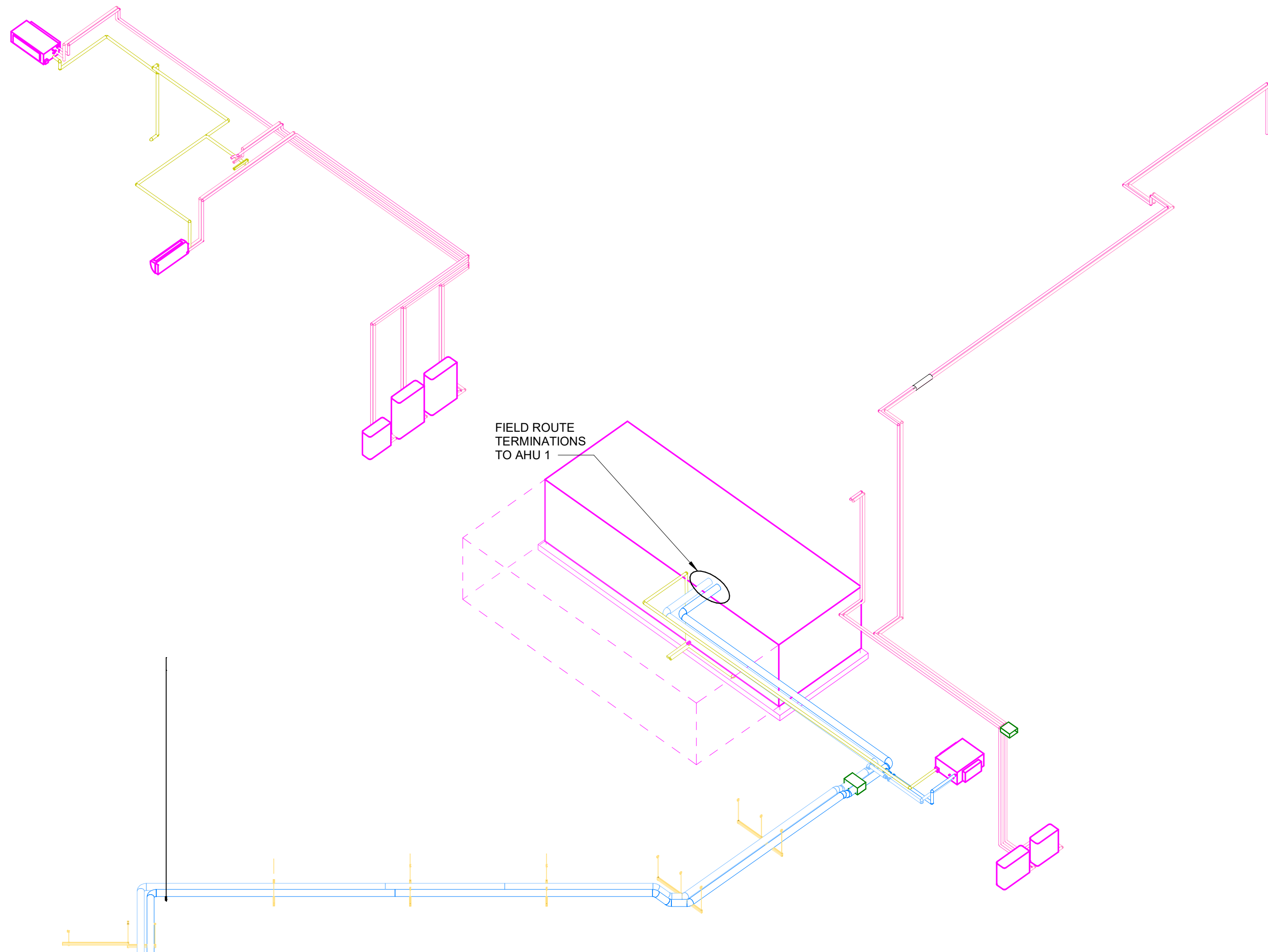
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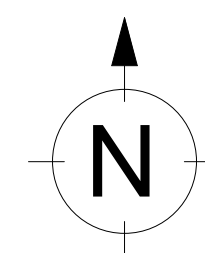
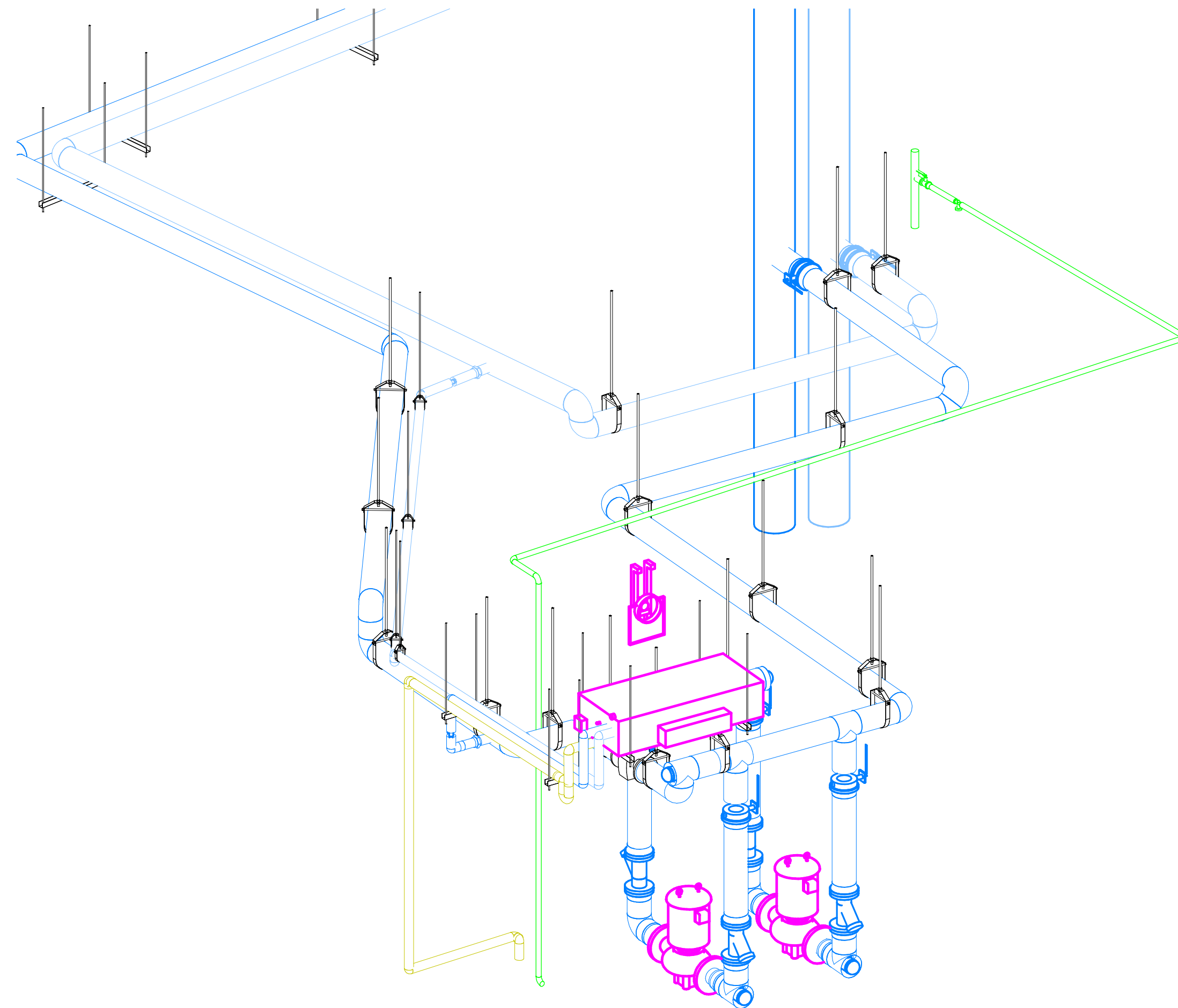
MP-L1-F



L1 - MP - OVERALL ISOMETRIC



MP- L1- MECHANICAL ROOM -ISO VIEW



MP - L1 - PUMP HOUSE - ISO VIEW

SHEET TITLE

SHEET NUMBER

MP-L1-ISO

SKY HARBOR AIRPORT
MECHANICAL DRAWINGS
LEVEL 1
ISO VIEW

ISSUE DATE
08-03-18
PROJECT MANAGER
J. KRHIN
DRAWN BY
MLP

PROJECT
SKY TRAIN - RCC STATION
LOCATION
SKY HARBOR AIRPORT
PHOENIX, AZ

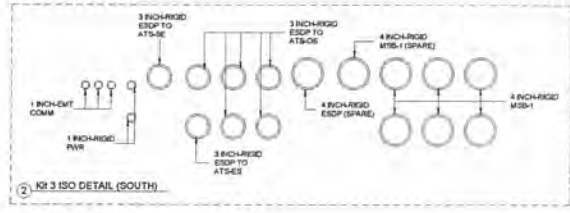
REVISIONS	ISSUE FOR APPROVAL		
	SC	PSS	RSS
	0	12-19-18	ISSUED FOR APPROVAL
	1	09-06-19	REVISED PER ENGINEERS COMMENTS
2	11-05-19	REVISED PER ENGINEERS COMMENTS	



24415 N. BIRN LAKE, SUITE 105
PHOENIX, ARIZONA 85028
P: 602.344.1498 F: 602.344.1520

ELECTRICAL SHOP DRAWINGS

Assembly - 1				
Conduit Quantity	Conduit Size	Weight per each conduit (100ft)	Wire configuration per conduit	Weight per each wire (1000 ft)
8	4" Aluminum	400 lbs	(5) - #750 KCMIL	815 lbs
7	3" Aluminum	280 lbs	(5) - #250 KCMIL	290 lbs
2	1" Aluminum	80 lbs	-	-
3	1" EMT	100 lbs	-	-

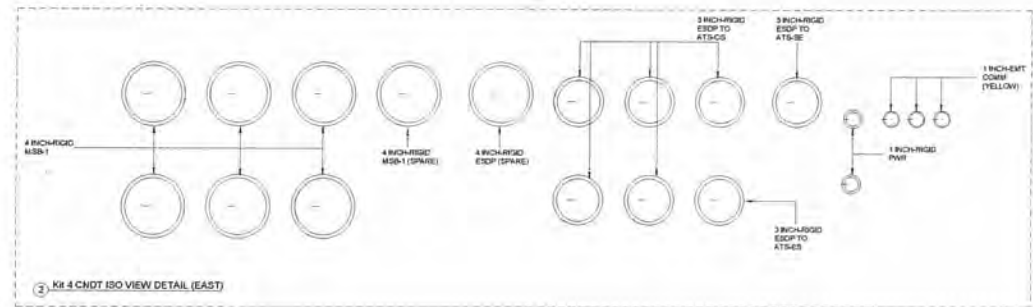
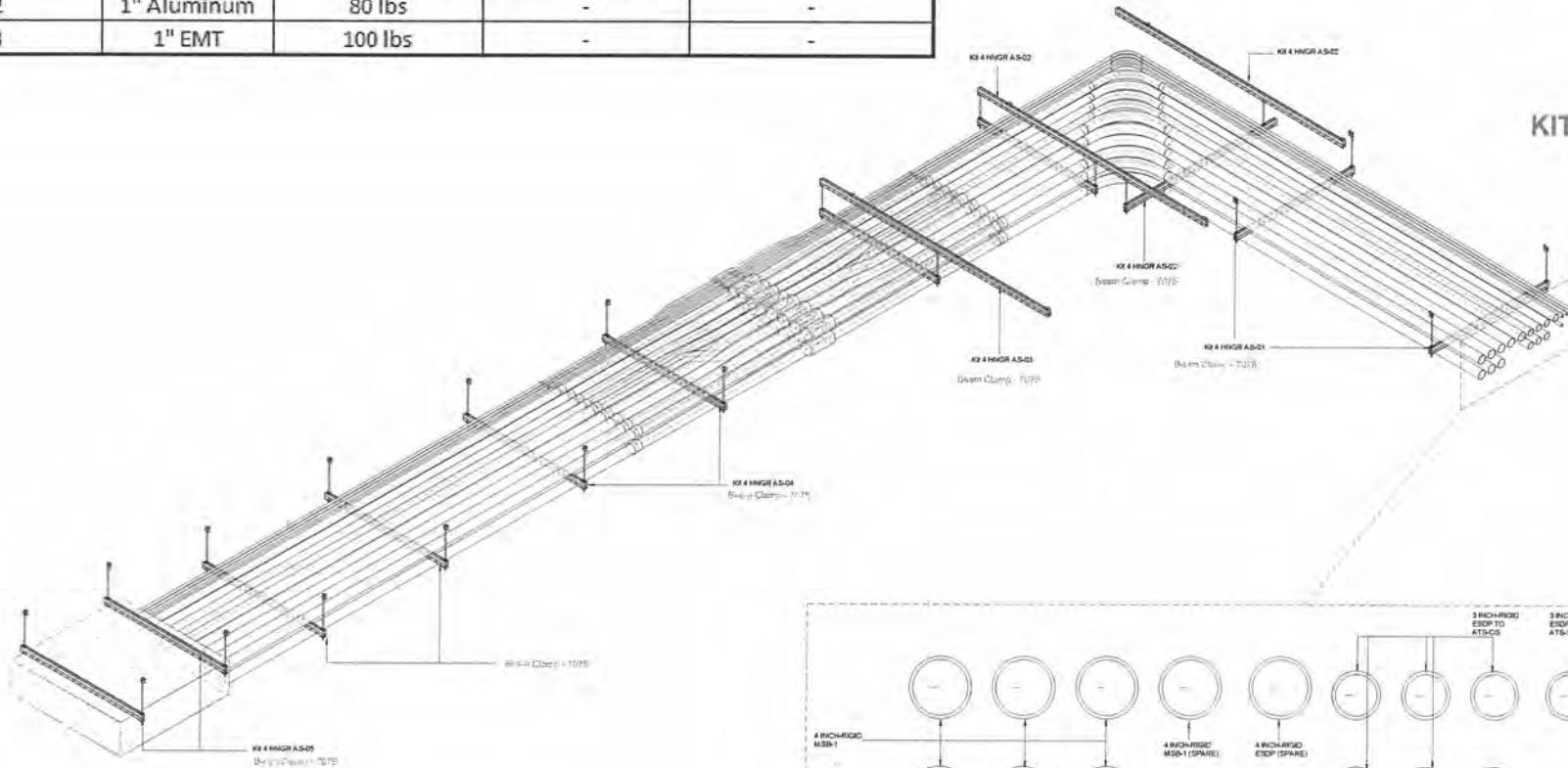


Assembly - 1

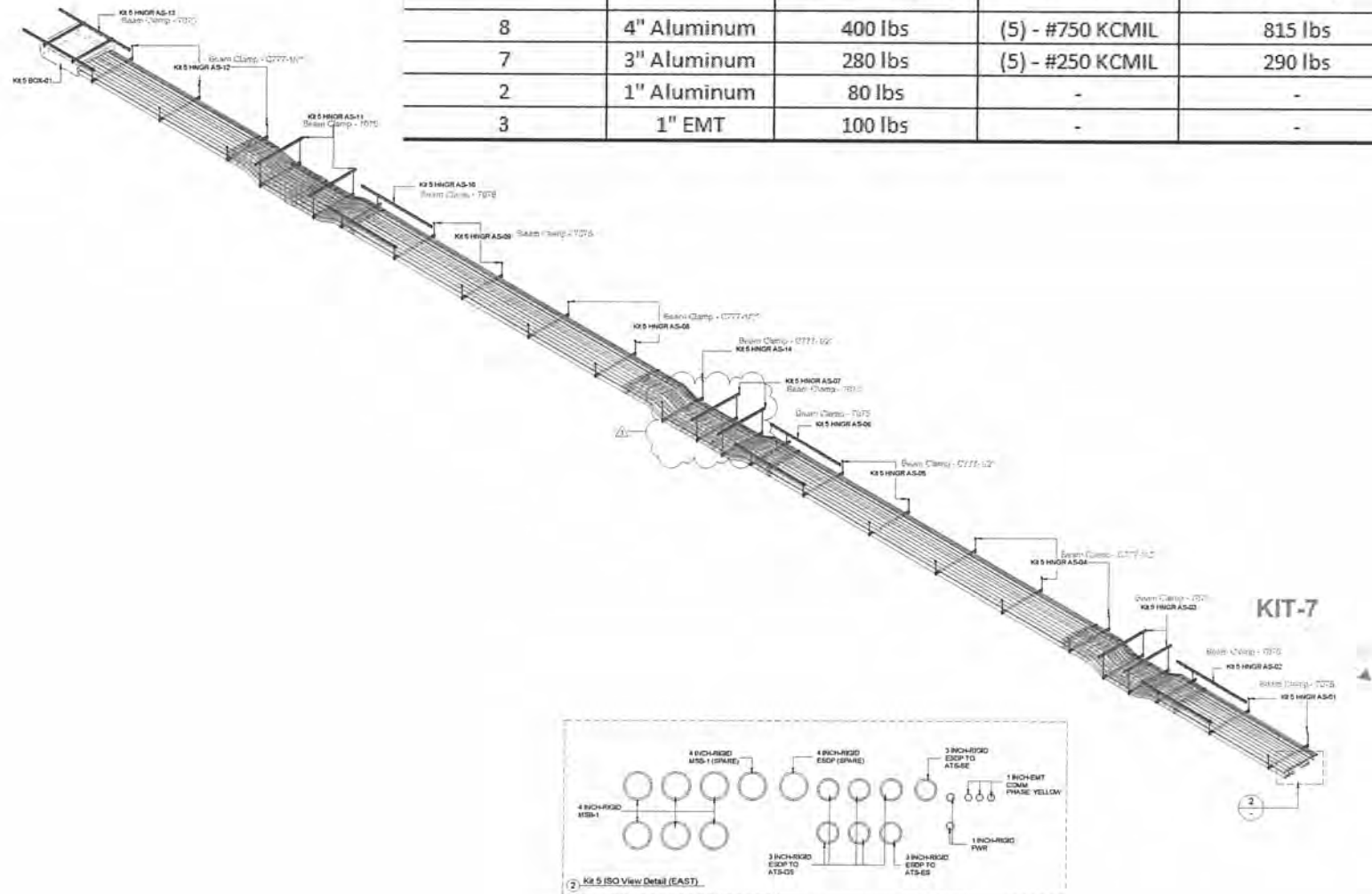
Conduit Quantity	Conduit Size	Weight per each conduit (100ft)	Wire configuration per conduit	Weight per each wire (1000 ft)
8	4" Aluminum	400 lbs	(5) - #750 KCMIL	815 lbs
7	3" Aluminum	280 lbs	(5) - #250 KCMIL	290 lbs
2	1" Aluminum	80 lbs	-	-
3	1" EMT	100 lbs	-	-



KIT-5

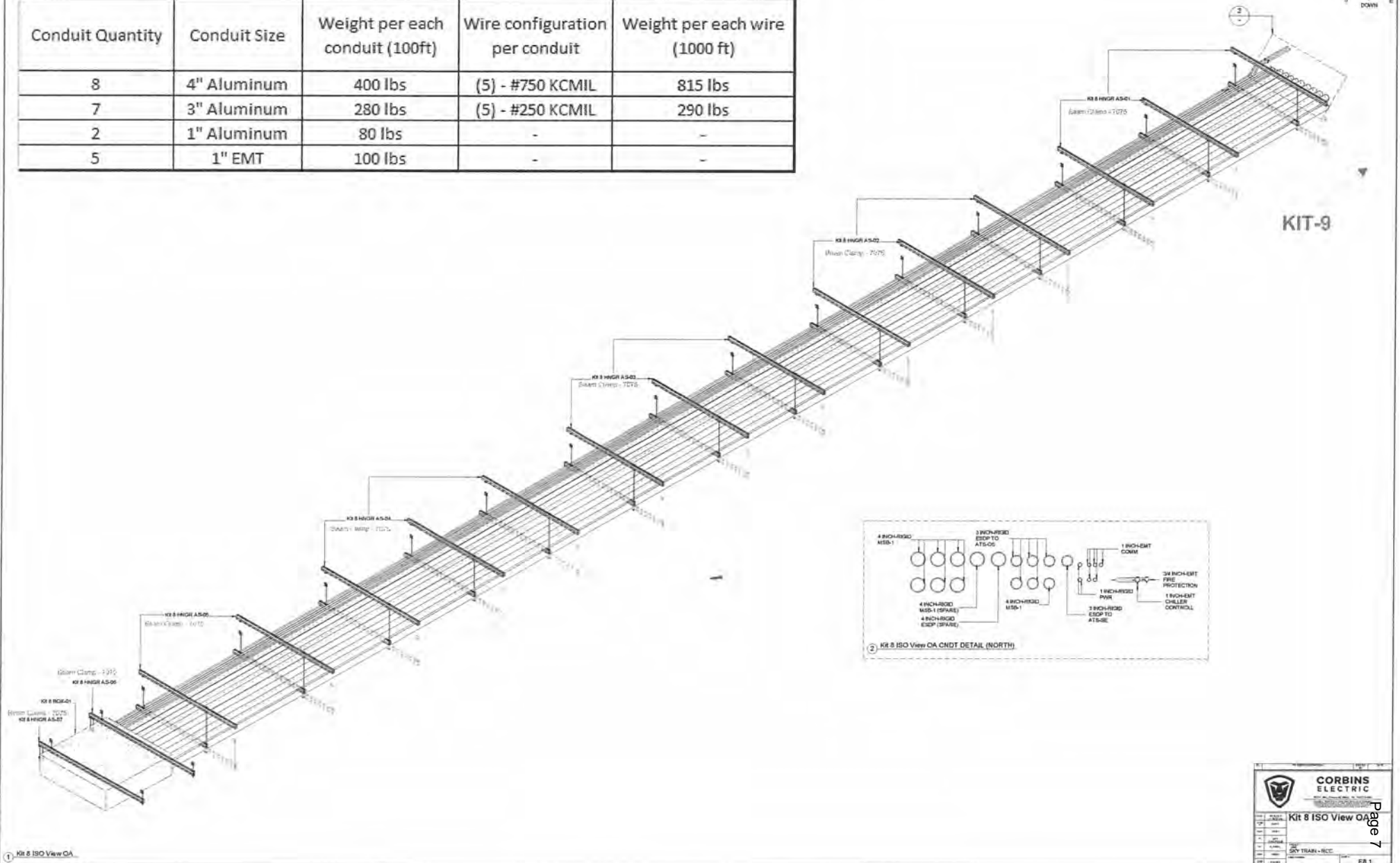


Conduit Quantity	Conduit Size	Weight per each conduit (100ft)	Wire configuration per conduit	Weight per each wire (1000 ft)
8	4" Aluminum	400 lbs	(5) - #750 KCMIL	815 lbs
7	3" Aluminum	280 lbs	(5) - #250 KCMIL	290 lbs
2	1" Aluminum	80 lbs	-	-
3	1" EMT	100 lbs	-	-



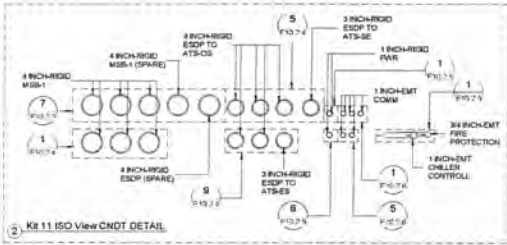
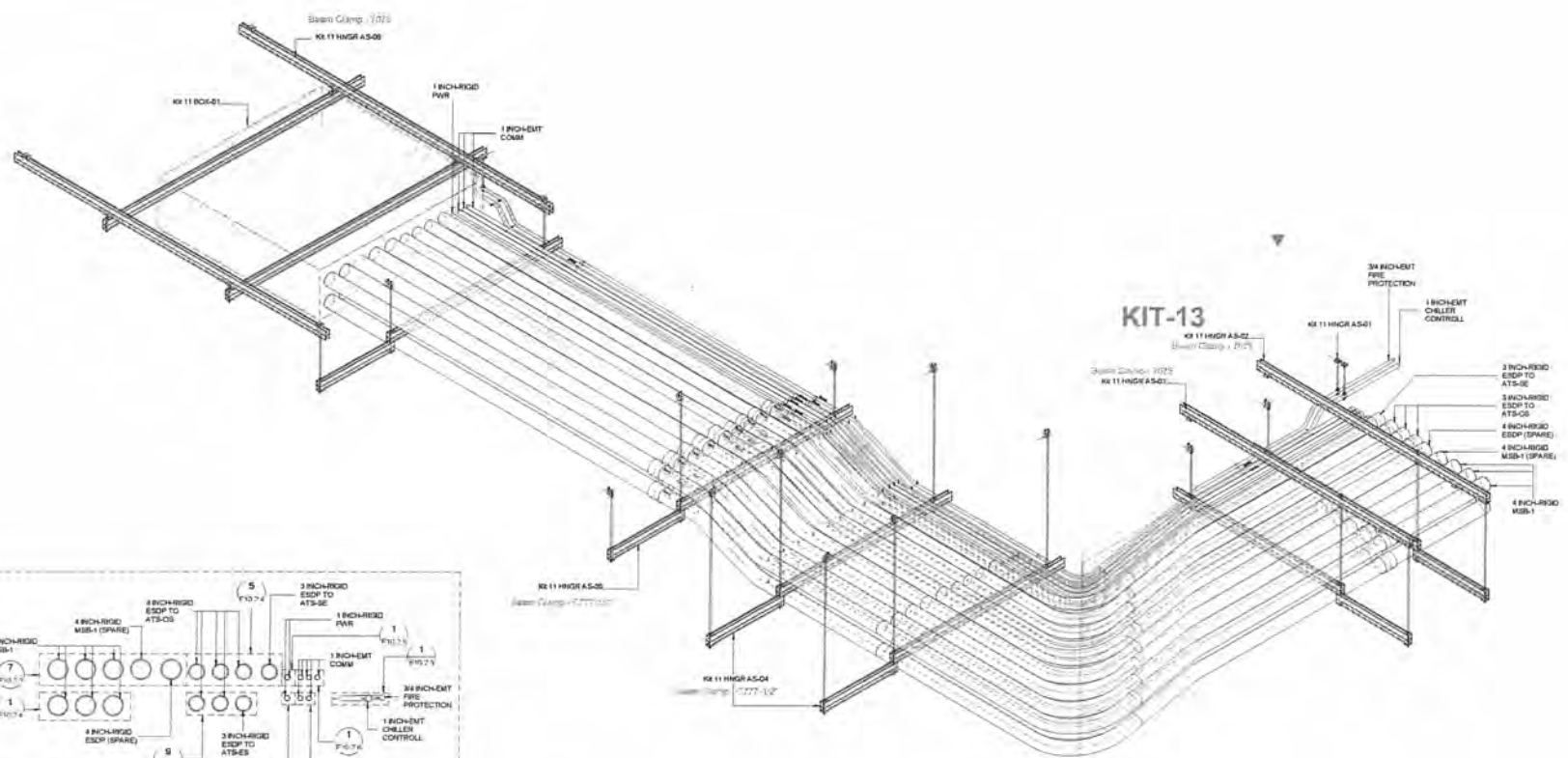
Assembly - 2

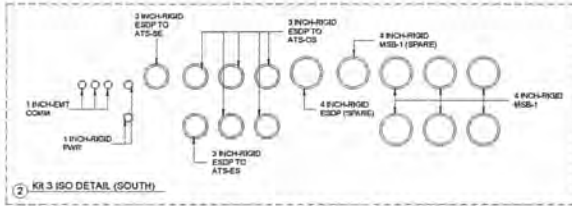
Conduit Quantity	Conduit Size	Weight per each conduit (100ft)	Wire configuration per conduit	Weight per each wire (1000 ft)
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7	3" Aluminum	280 lbs	(5) - #250 KCMIL	290 lbs
2	1" Aluminum	80 lbs	-	-
5	1" EMT	100 lbs	-	-



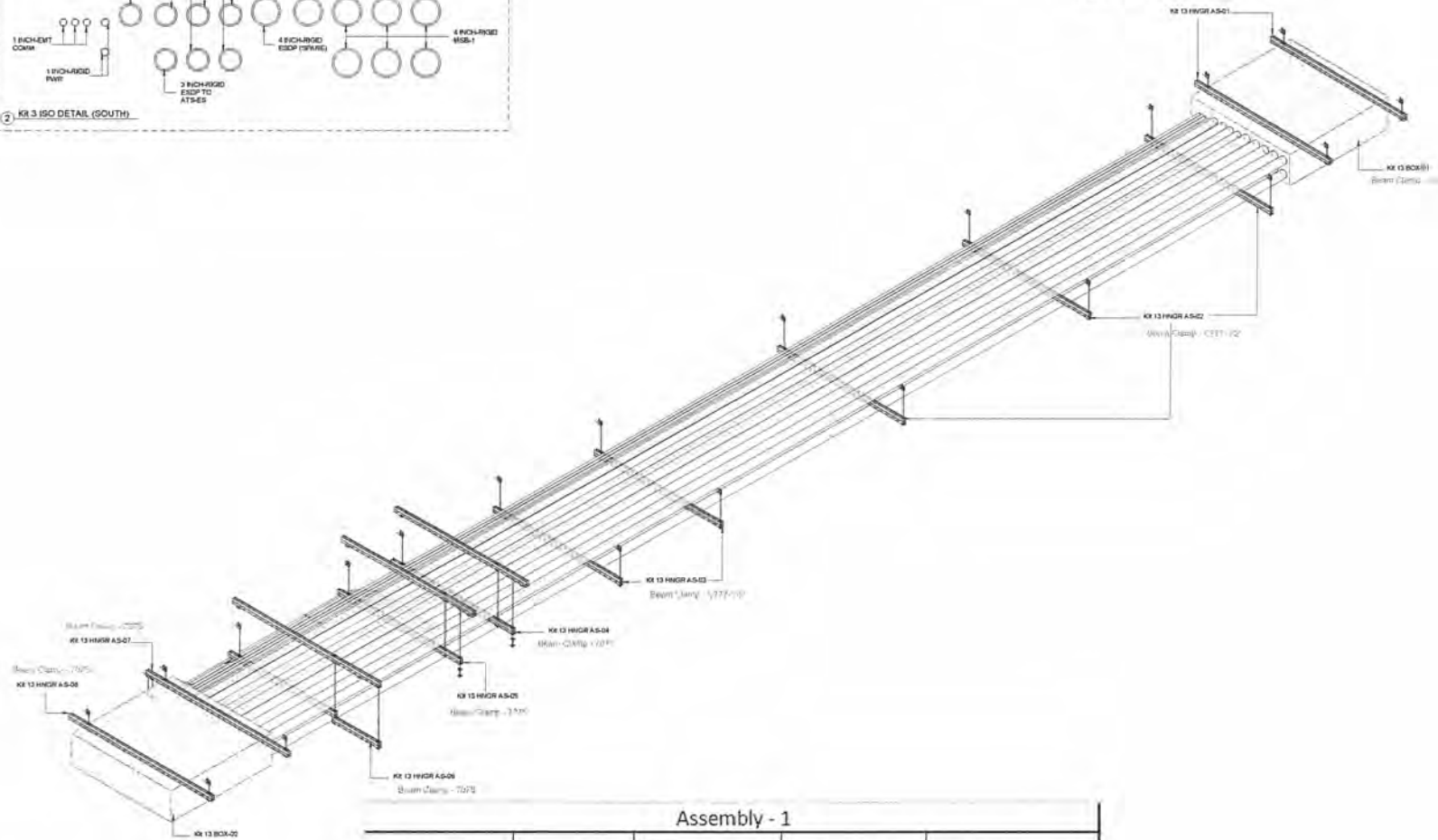
Assembly - 2				
Conduit Quantity	Conduit Size	Weight per each conduit (100ft)	Wire configuration per conduit	Weight per each wire (1000 ft)
8	4" Aluminum	400 lbs	(5) - #750 KCMIL	815 lbs
7	3" Aluminum	280 lbs	(5) - #250 KCMIL	290 lbs
2	1" Aluminum	80 lbs	-	-
5	1" EMT	100 lbs	-	-





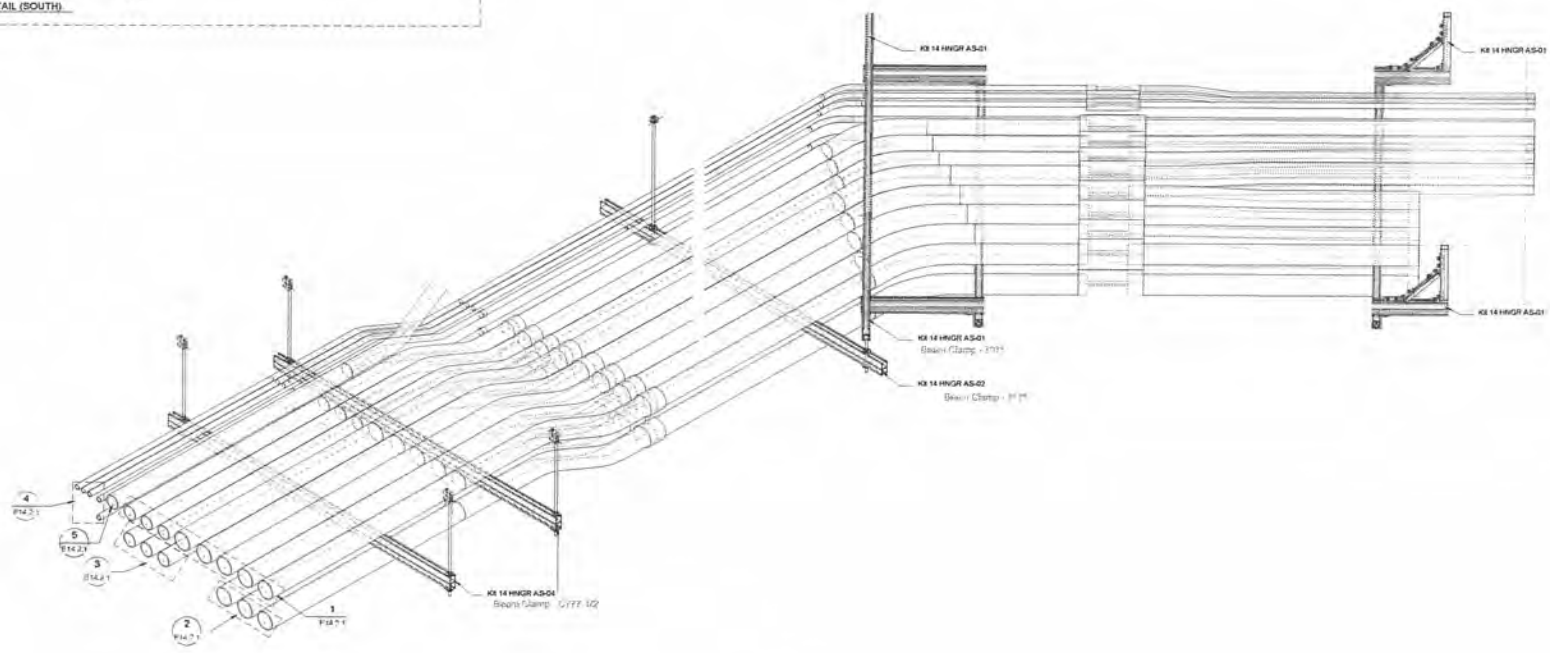
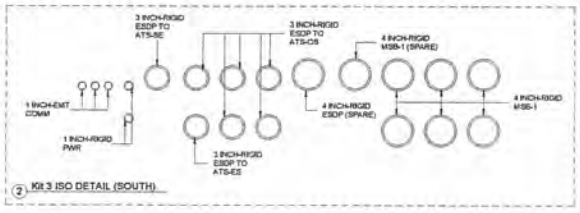


KIT-14



Assembly - 1

Conduit Quantity	Conduit Size	Weight per each conduit (100ft)	Wire configuration per conduit	Weight per each wire (1000 ft)
8	4" Aluminum	400 lbs	(5) - #750 KCMIL	815 lbs
7	3" Aluminum	280 lbs	(5) - #250 KCMIL	290 lbs
2	1" Aluminum	80 lbs	-	-
3	1" EMT	100 lbs	-	-



Assembly - 1

Conduit Quantity	Conduit Size	Weight per each conduit (100ft)	Wire configuration per conduit	Weight per each wire (1000 ft)
8	4" Aluminum	400 lbs	(5) - #750 KCMIL	815 lbs
7	3" Aluminum	280 lbs	(5) - #250 KCMIL	290 lbs
2	1" Aluminum	80 lbs	-	-
3	1" EMT	100 lbs	-	-



Representative

Project: RCC Station Pipe Rack
Location: AZ

Catalog Number: C777 1/2
Product ID: 7TAA005140R0012
UPC Number: 61601301930
Status: On Hold

C-Clamp, Steel Top Beam, Rod Size 1/2 Inch, Pipe Size 5-8, Steel

North American Specifications (UNSPSC)

UNSPSC	31162905 Beam clamps
IGCC	3063 Beam clamps
Type	Beam Clamps (Series 500)
Application	For use with hanging rod.
Material	Steel
Maximum Load	2430 pounds
Maximum Jaw Opening	3/4 in
Size	5-8
Finish	GoldGalv/Standard
Rod Size	1/2 in

European Specifications (ETIM)

ETIM	EC000474 Screw clamp
Material	Steel
Material quality	Other
Surface protection	Other

Packaging

Outer Quantity	100
Outer Dimensions (inches)	12.5x9.5x4.3
Weight Uom	27.5 lbs. per 100

Documents / Support Tools

Technical Drawing / Data Sheet US	Available on Website
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For further technical assistance, please contact us...

ABB Installation Products - USA
 860 Ridge Lake Blvd.
 Memphis, TN 38120
www.tnb.com

ABB Installation Products Technical Support
 MS 3B-50
 860 Ridge Lake Blvd.
 Memphis, TN 38120

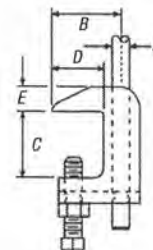
Hours: 7AM - 6PM CDT
 Monday-Friday
 Phone: (888) 862-3289
 Fax: (901) 252-1321
 Email: techsupport@tnb.com

Beam Clamps

C-777 — Steel Top Beam Clamp & C-778 — Steel Wide Jaw Top Beam Clamp

CAT. NO.	ROD SIZE A (IN.)	PIPE SIZE	DIMENSIONS (IN.)					DESIGN LOAD LBS.	STD. CTN.
			B	C	D	E	F		
C-777 3/8	3/8	1/2-4	1 3/16	3/4	1	7/16	1	900	100
C-777-1/2	1/2	5-8	1 1/2	3/4	1	9/16	1 1/4	2,430	50
C-778-3/8	3/8	1/2-4	1 3/16	1 1/4	1	7/16	1	900	100
C-778-1/2	1/2	5-8	1 1/2	1 1/4	1	9/16	1 1/4	2,430	50

Standard Finish — GoldGalv[®], Black (B) and Electro-Galvanized (EG).

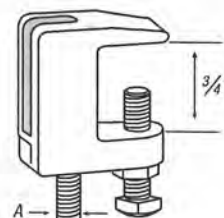


C-777, C-778

M-777 — Steel Top Beam Clamp

- Junior Top Beam C-Clamp
- Standard finish is Gold-Galv[®]
- Available in Electro-Galvanized (EG) or Black (B) Malleable Iron
- Provides clamping under roof installations with bar joist construction (max. joist thickness 3/8")
- Order by Cat. No., rod size

ROD SIZE A (IN.)	DESIGN LOAD LBS.
3/8	350
1/2	470
5/8	550
3/4	700
1	1,000



M-777

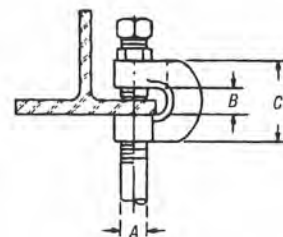
M-775L — Clamp with Lock Nut

CAT. NO.	ROD SIZE A (IN.)	B (IN.)	C (IN.)	DESIGN LOAD LBS.	STD. CTN.
M-775L-3/8	3/8	3/4	1 1/4	400	100
M-775L-1/2	1/2	3/4	1 1/4	400	100
M-775L-5/8	5/8	3/4	2	440	50
M-775L-3/4	3/4	3/4	2	500	50

Available in Electro-Galvanized (EG) or Black (B).



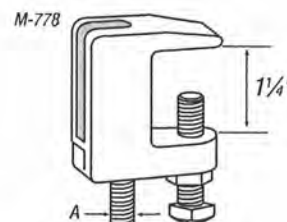
M-775L



M-778 — Steel Wide Jaw Top Clamp

- Top Beam C-Clamp
- Rod Size: 3/8", 1/2", 5/8" and 3/4"
- Available in Electro-Galvanized (EG) or Black (B) Malleable Iron
- Provides clamping under roof installations with bar joist type construction
- Order by Cat. No. and rod size

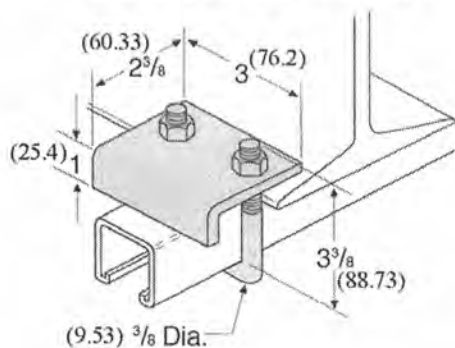
ROD SIZE A (IN.)	DESIGN LOAD LBS.
3/8	400
1/2	500
5/8	850
3/4	900



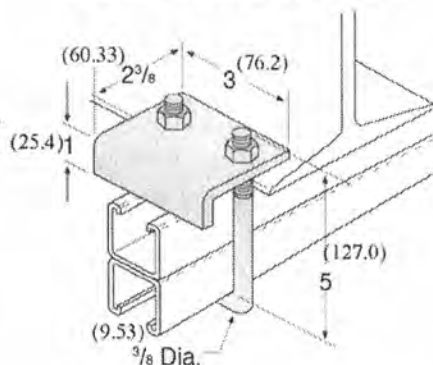
7070 - 7076 Beam Clamp

7070

For use with 1 5/8" Strut


7075

For use with 3 1/4" Strut


7076

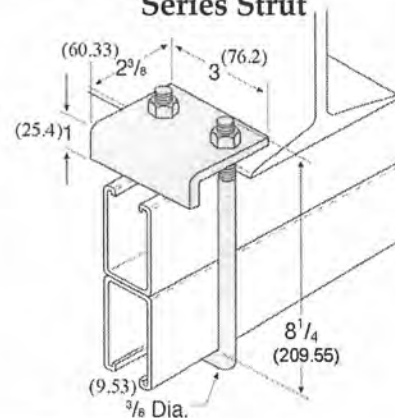
For Use with 1500A or 1600A
Series Strut


Fig. Number	Std. Package	Max. Rec. Load		Wt. Each	
		lbs.	kN	lbs.	kg
7070	25	1200*	(5.34)	.80	(.36)
7075	25	1200*	(5.34)	.88	(.40)
7076	25	1200*	(5.34)	1.12	(.51)

*Max. load when used in pairs. 3/4" (19.05) Max. Flange Thickness

Available in stainless steel. To order, specify 304 or 316 and add suffix SS to fig. number. Price on request.

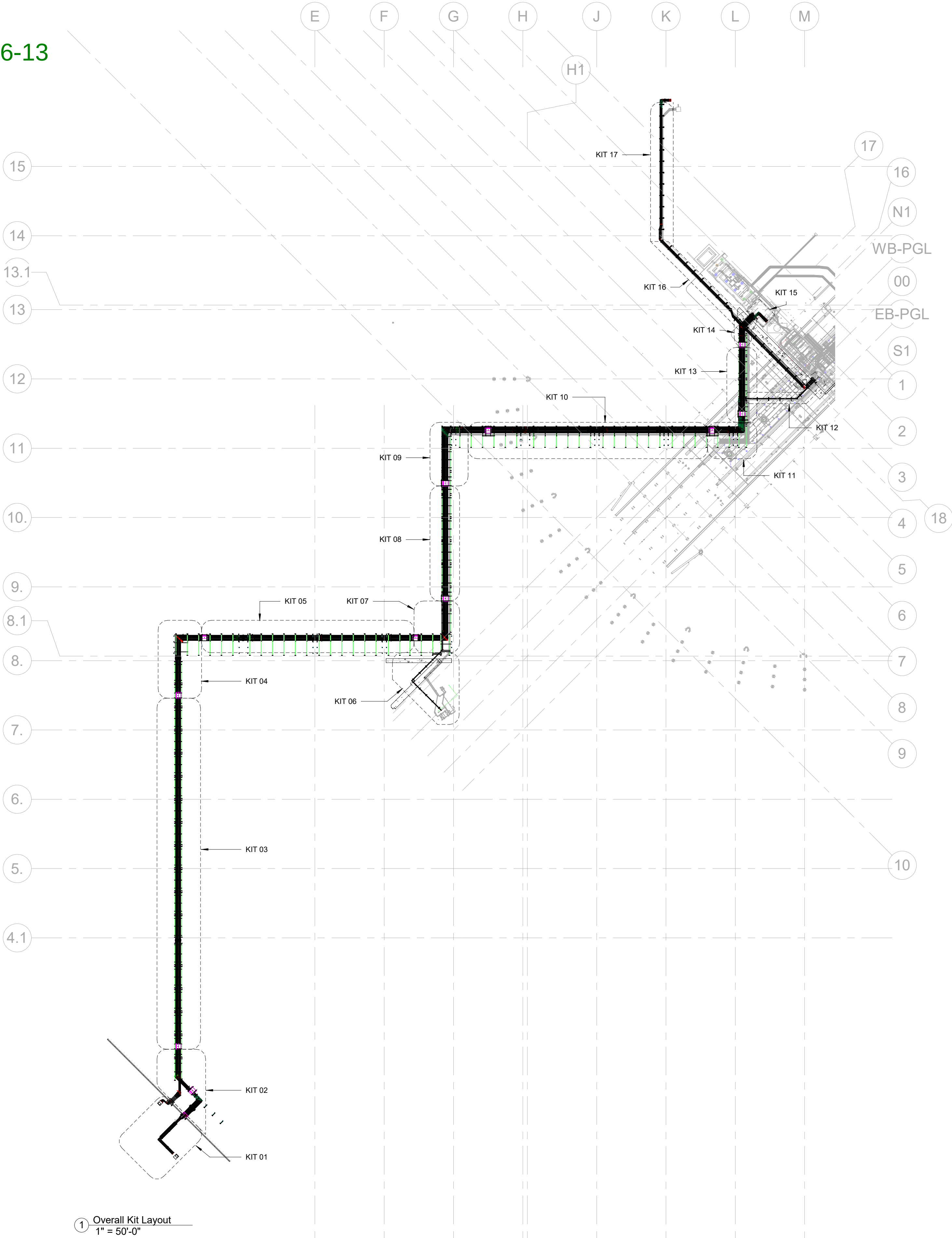
MATERIAL: 1/4 (6.35)

FINISH: Electro-galvanized

ORDERING: Specify figure number.

1200 LBS > 680 LBS => OK

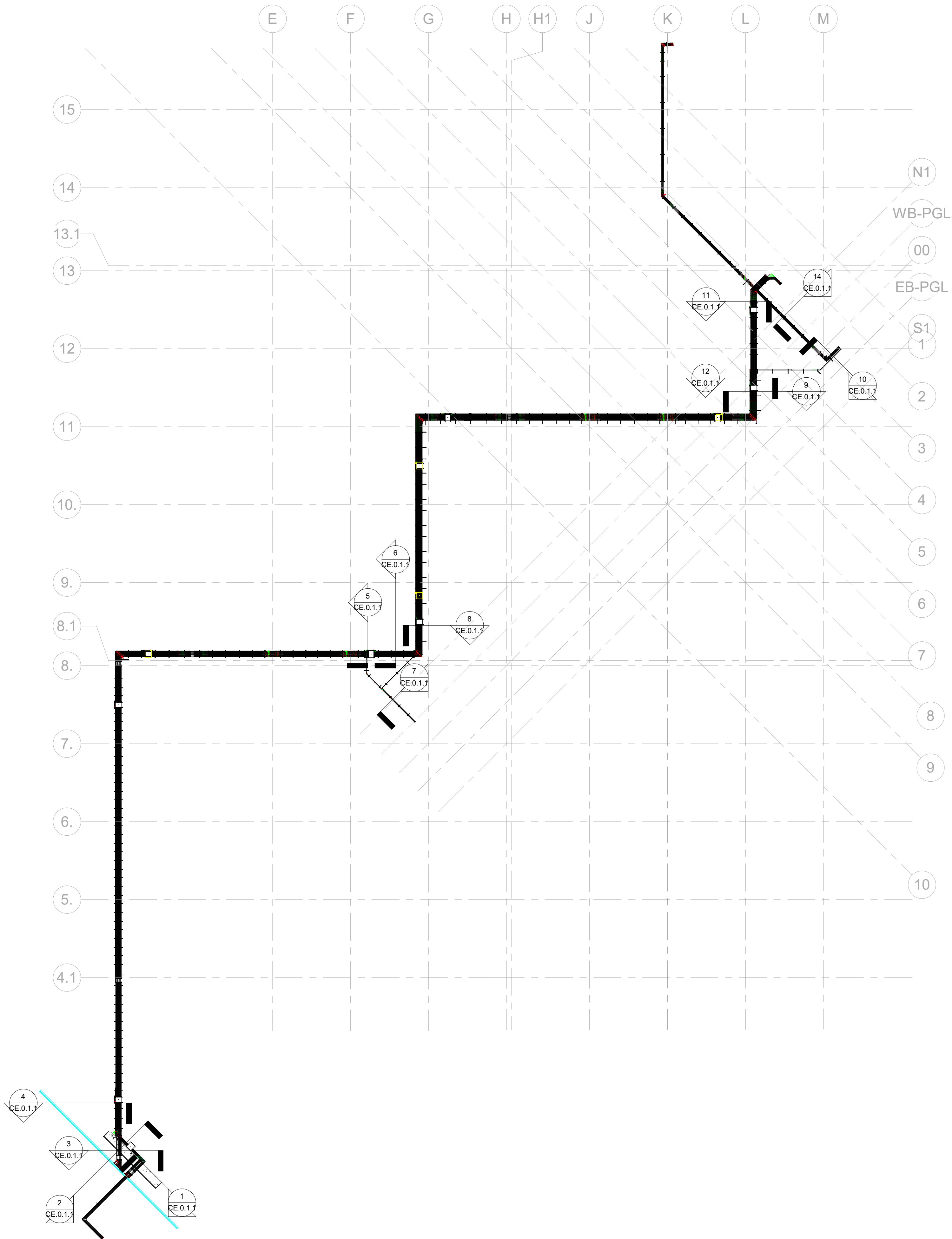
Included in this submittal: Kits 1-5
Previously submitted & approved: Kits 6-13
Forthcoming submittal: Kits 14-16



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DATE:	01/12/2019	LEVEL:	
FA:	12/20/17 PM	RACK KIT LAYOUT	
DETAIL BY:			
CHK:			
DESIGN:	CHANG	ENGINEER:	SKY TRAIN - RCC
DATE:	01/12/2019		
PROJECT:	PHASIS	QA BY:	CE.0.1.5

NOTES:
1. SEE SHEET 000000 FOR GENERAL NOTES.
2. SEE SHEET 000000 FOR GENERAL NOTES.
3. SEE SHEET 000000 FOR GENERAL NOTES.
4. SEE SHEET 000000 FOR GENERAL NOTES.

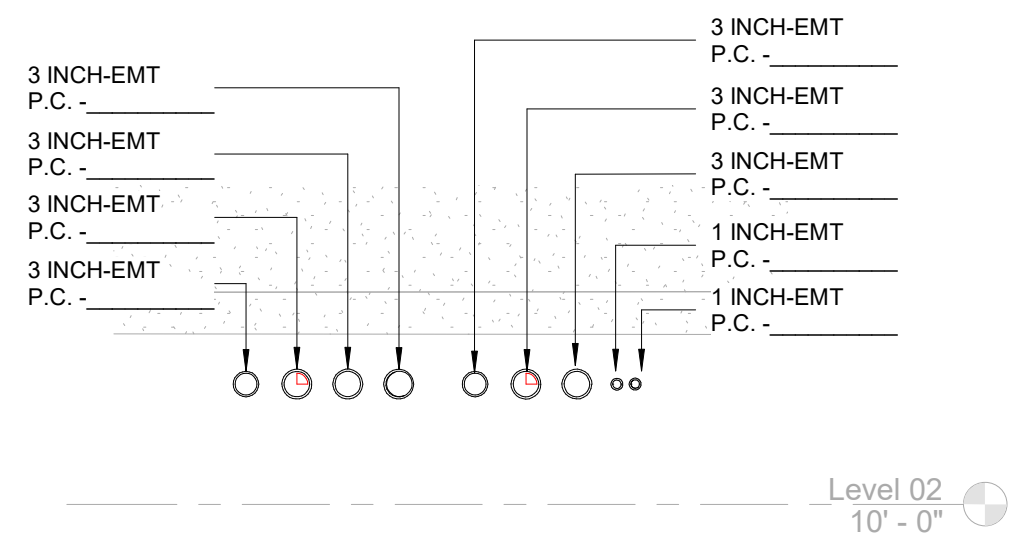
① Overall Rack Layout
1 : 520



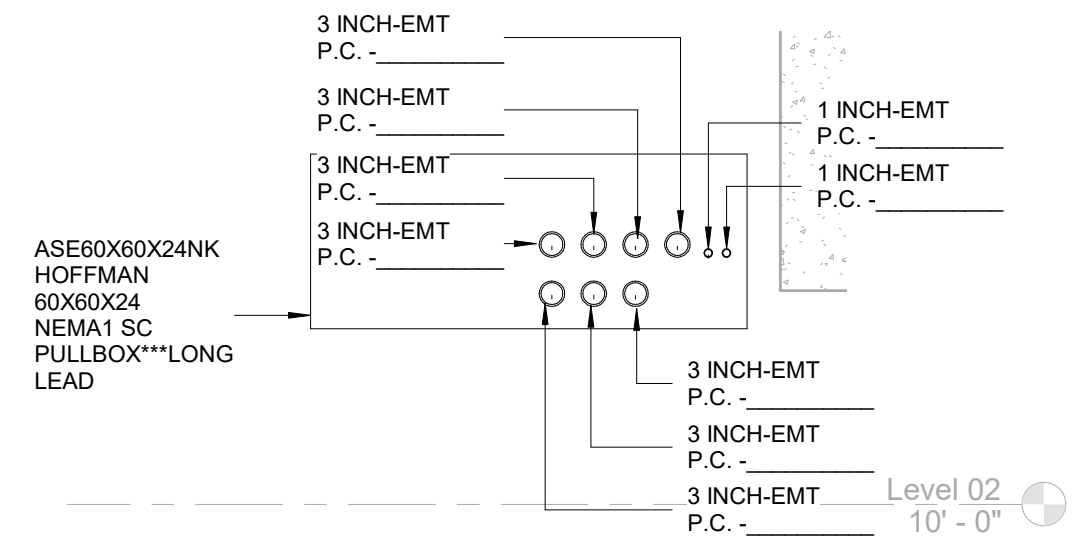


Corbins Electric
4829 S 38th, Phoenix, AZ
85040 PH: (602) 275-8500
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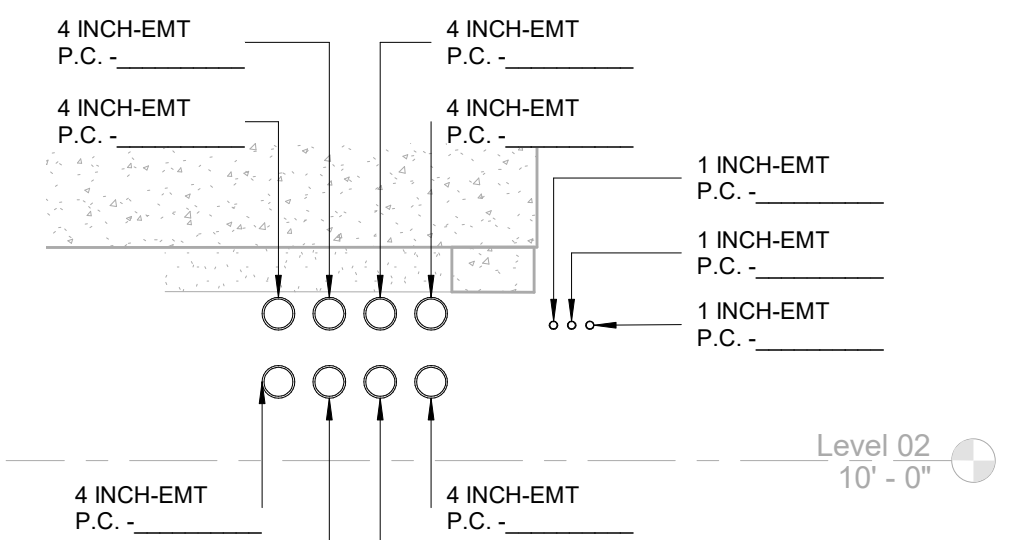
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DETAIL BY:			
OP:			
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DATE:	000000	SKY TRAIN - RCC	
POWER:	000000	OP BY:	000000
PHASE:	000000	QA BY:	CE.0.1



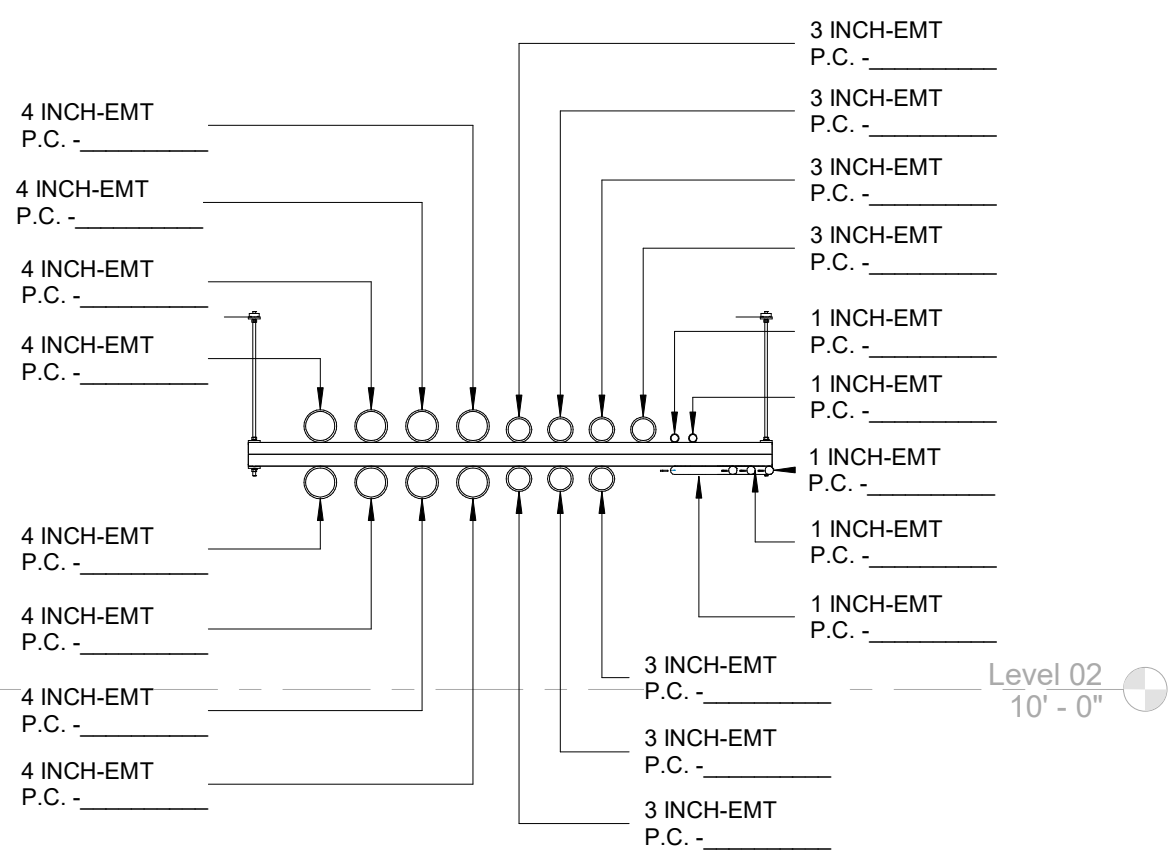
① Section CE-1
1/2" = 1'-0"



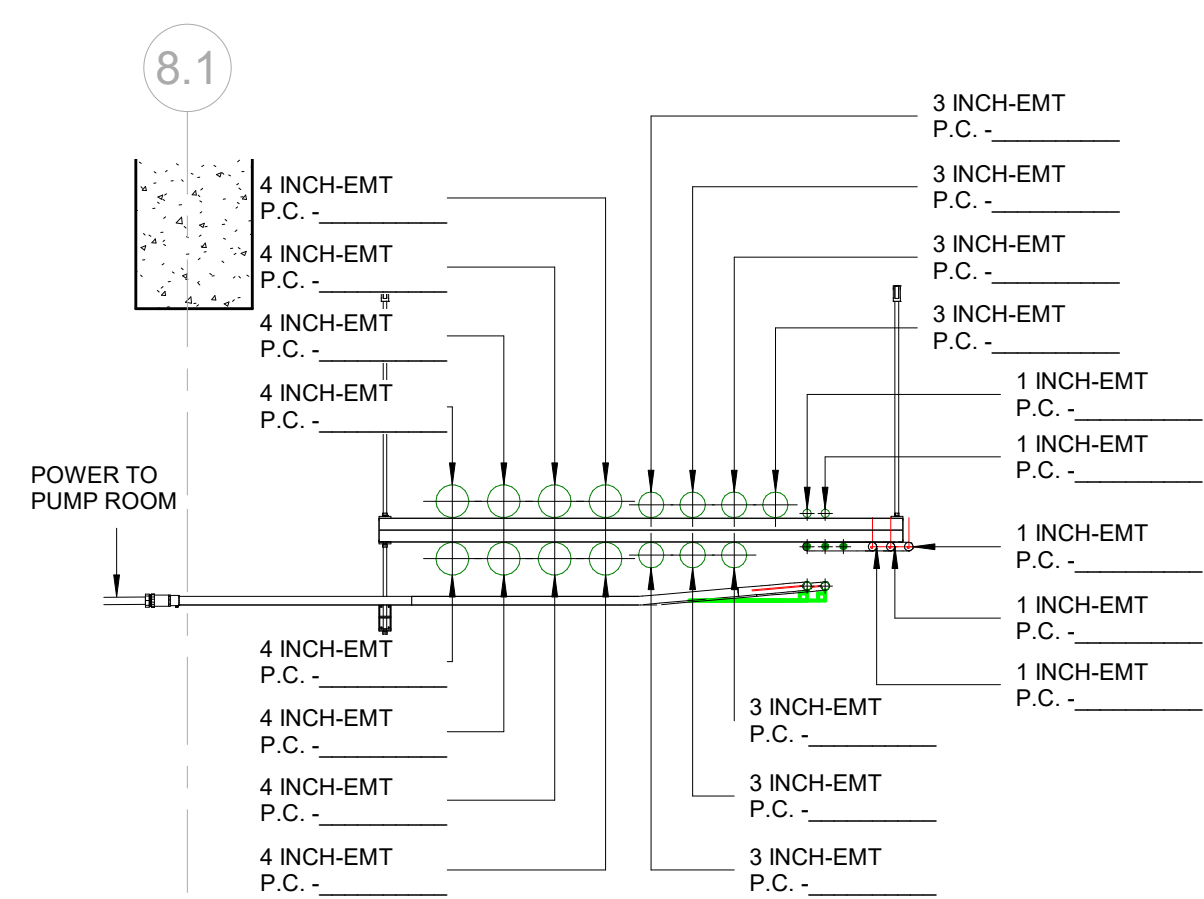
② Section CE-2
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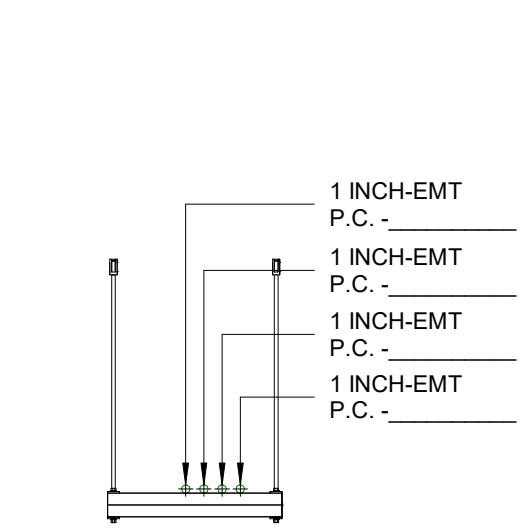
③ Section CE-3
1/2" = 1'-0"



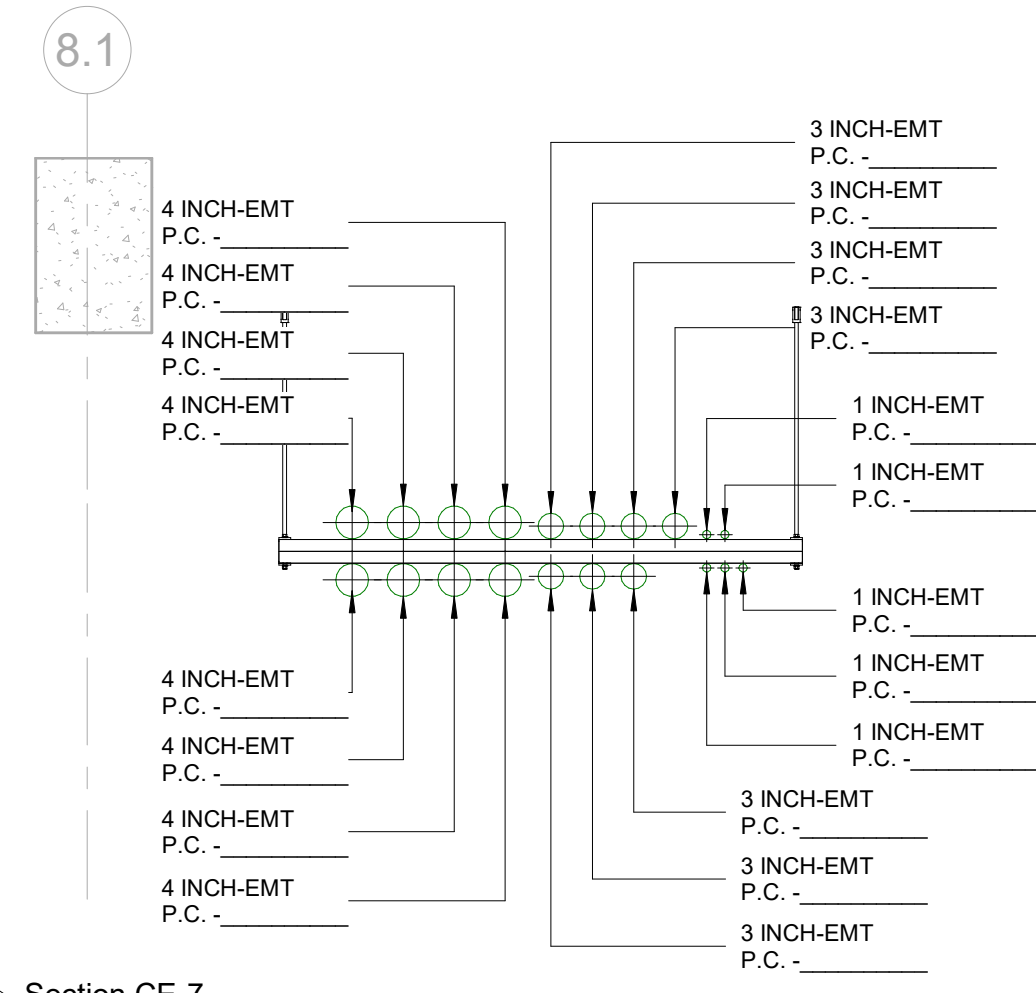
④ Section CE-4
1/2" = 1'-0"



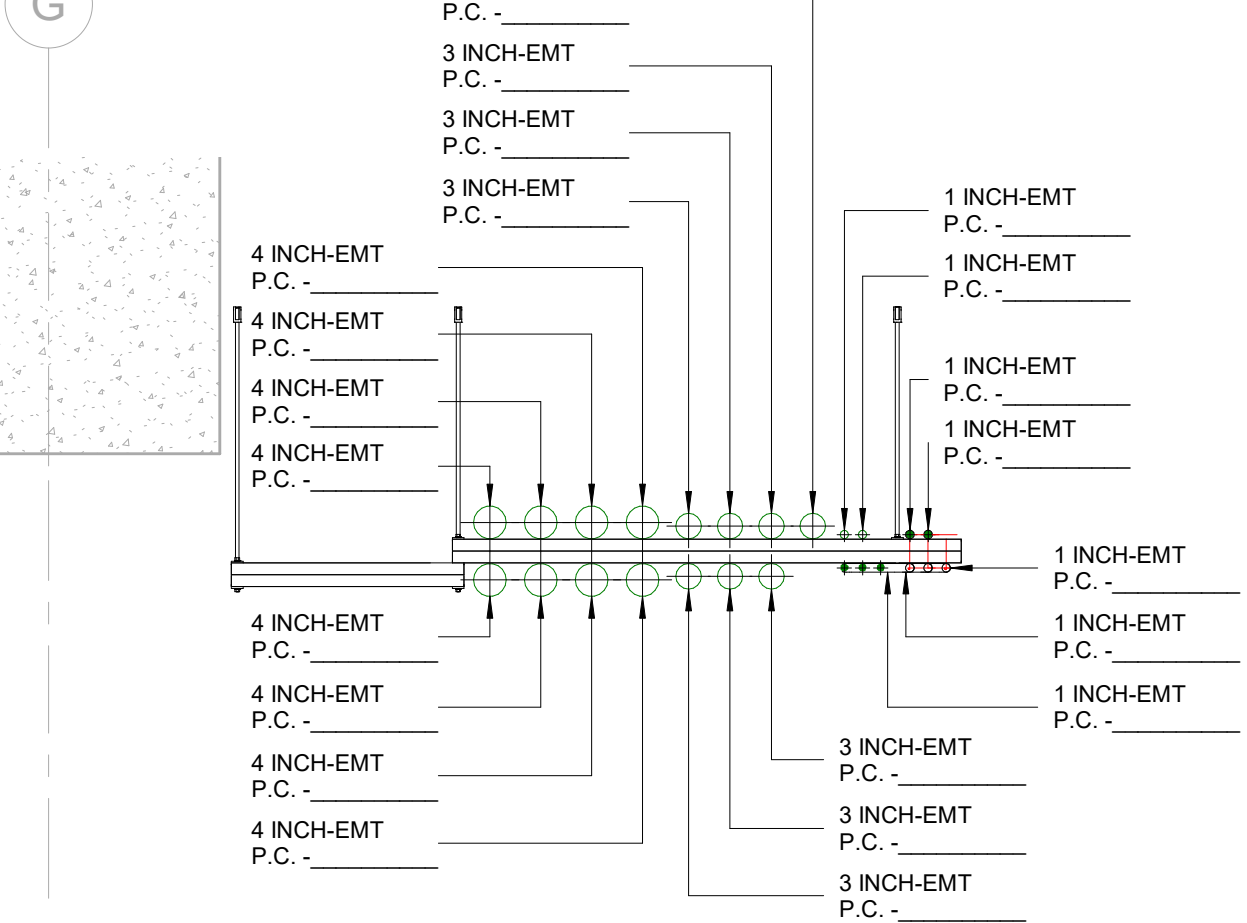
⑤ Section CE-5
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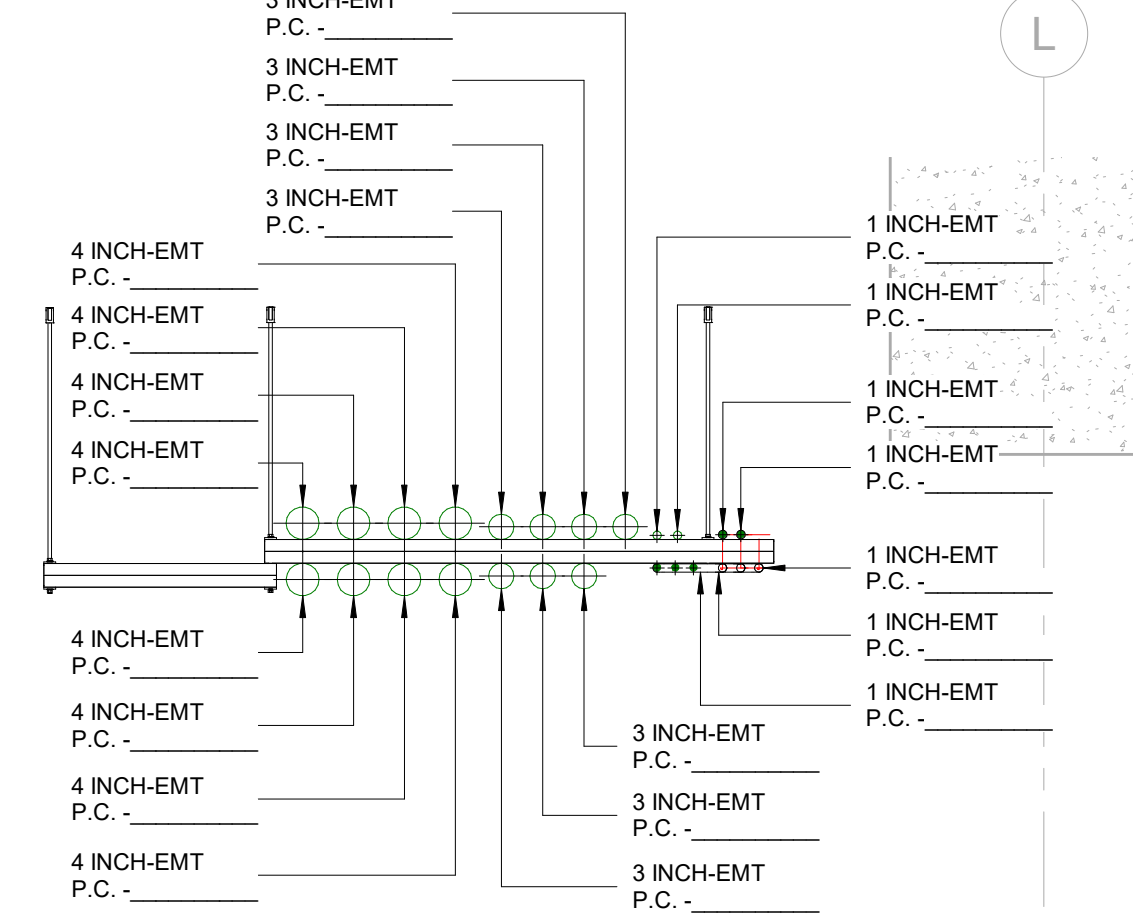
⑦ Section CE-6
1/2" = 1'-0"



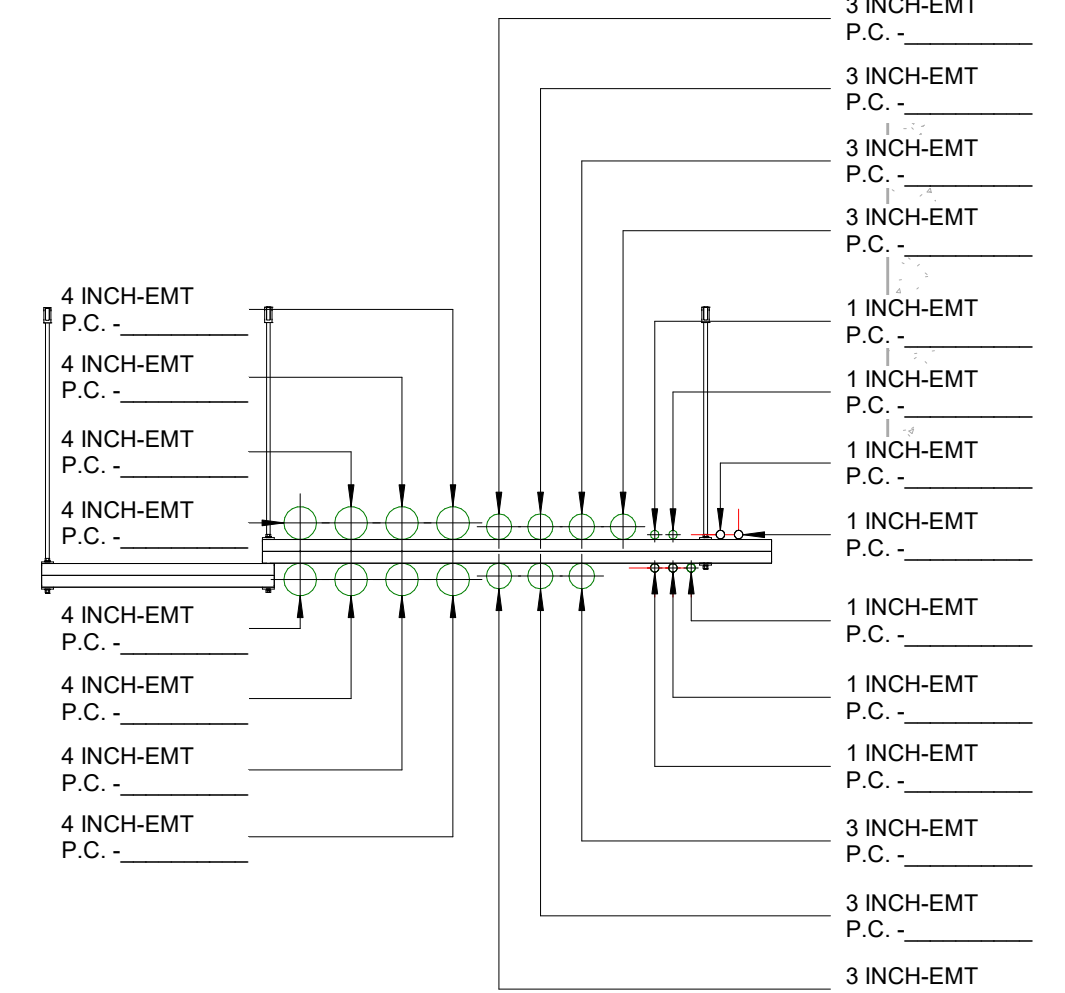
⑥ Section CE-7
1/2" = 1'-0"



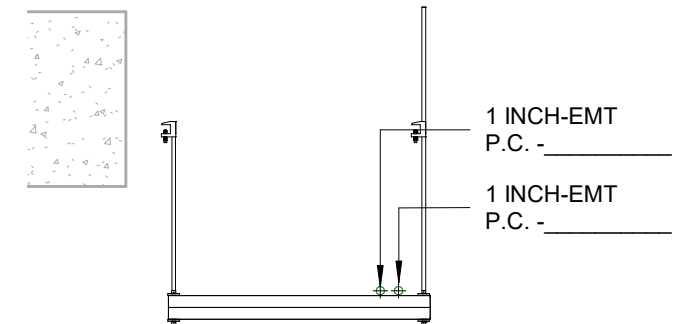
⑧ Section CE-8
1/2" = 1'-0"



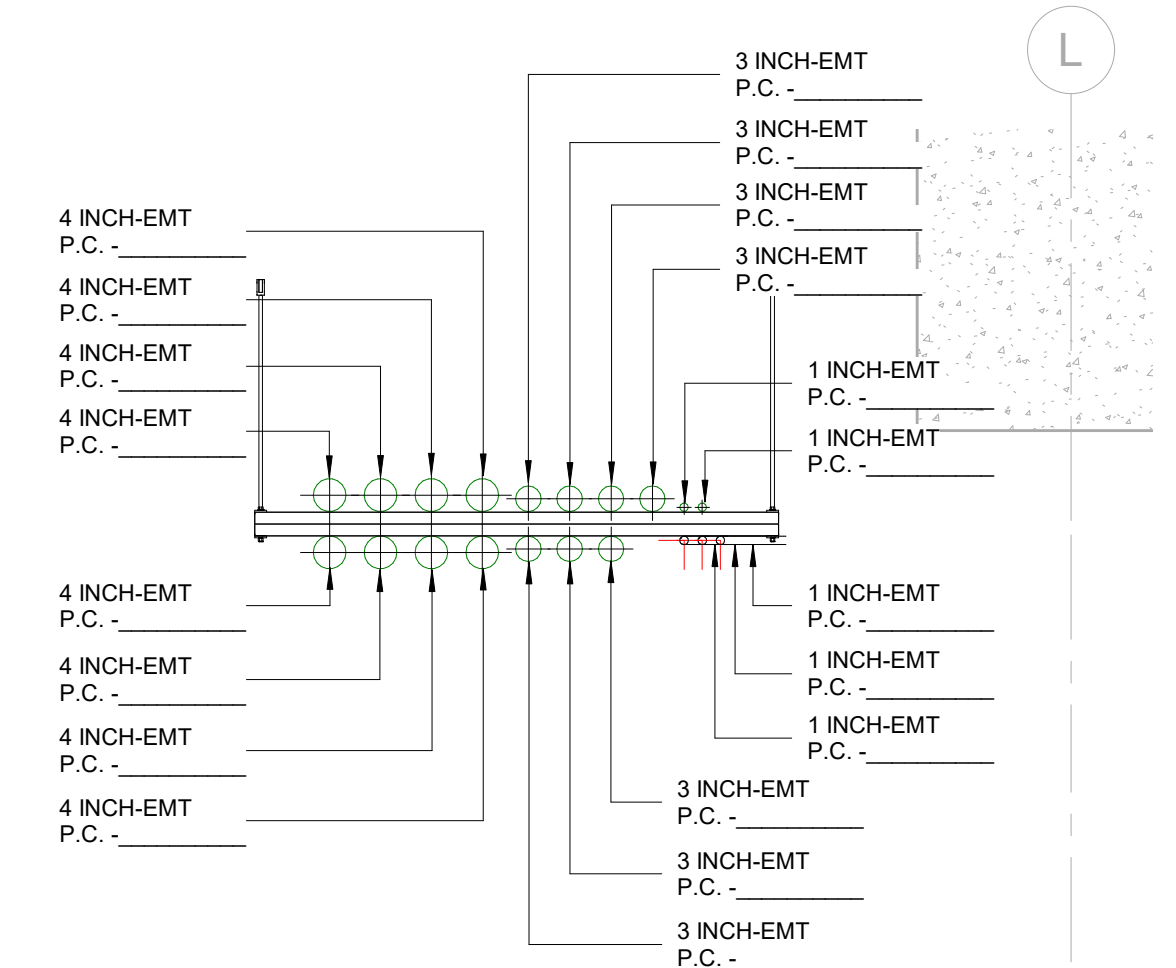
⑨ Section CE-9
1/2" = 1'-0"



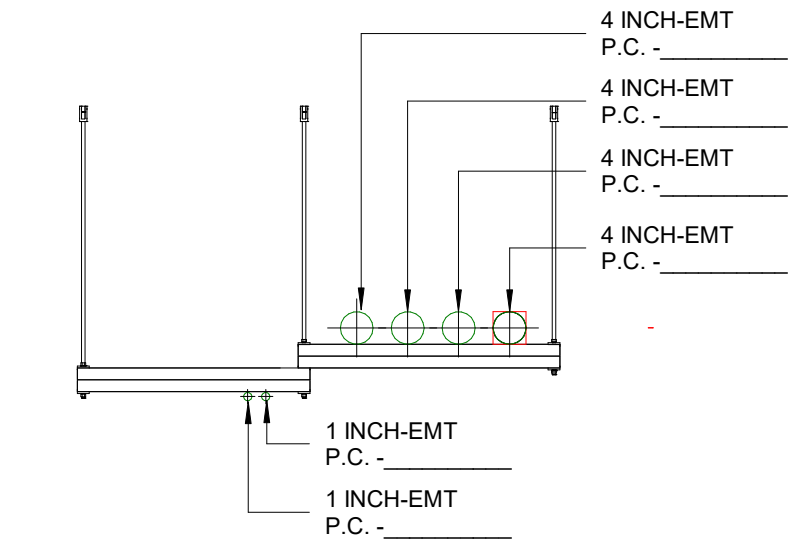
⑫ Section CE-10
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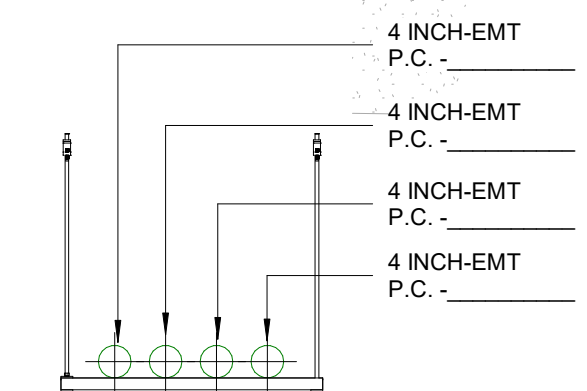
⑬ Section CE-11
1/2" = 1'-0"



⑪ Section CE-12
1/2" = 1'-0"



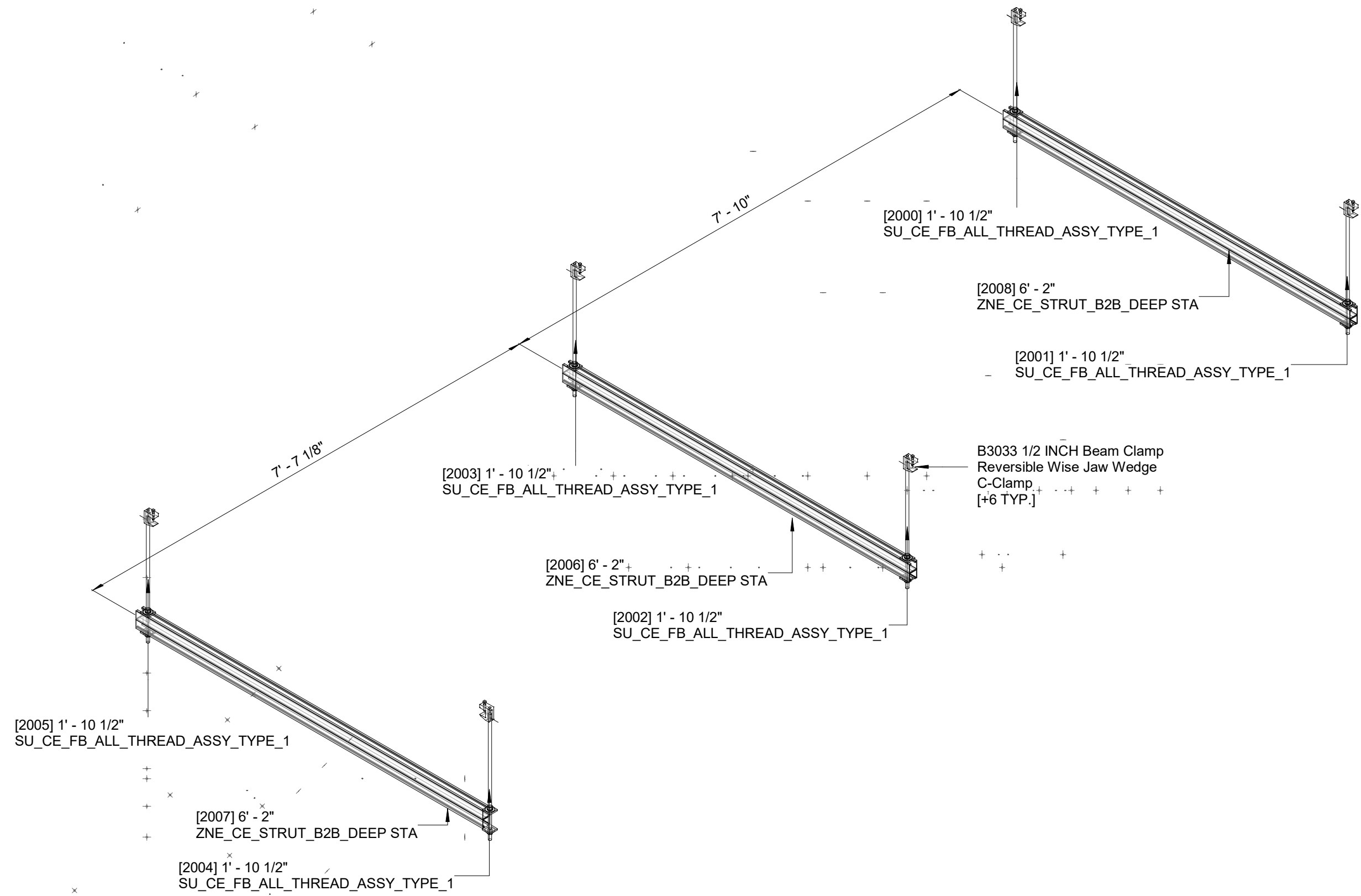
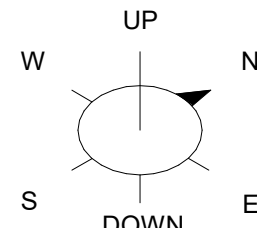
⑩ Section CE-13
1/2" = 1'-0"



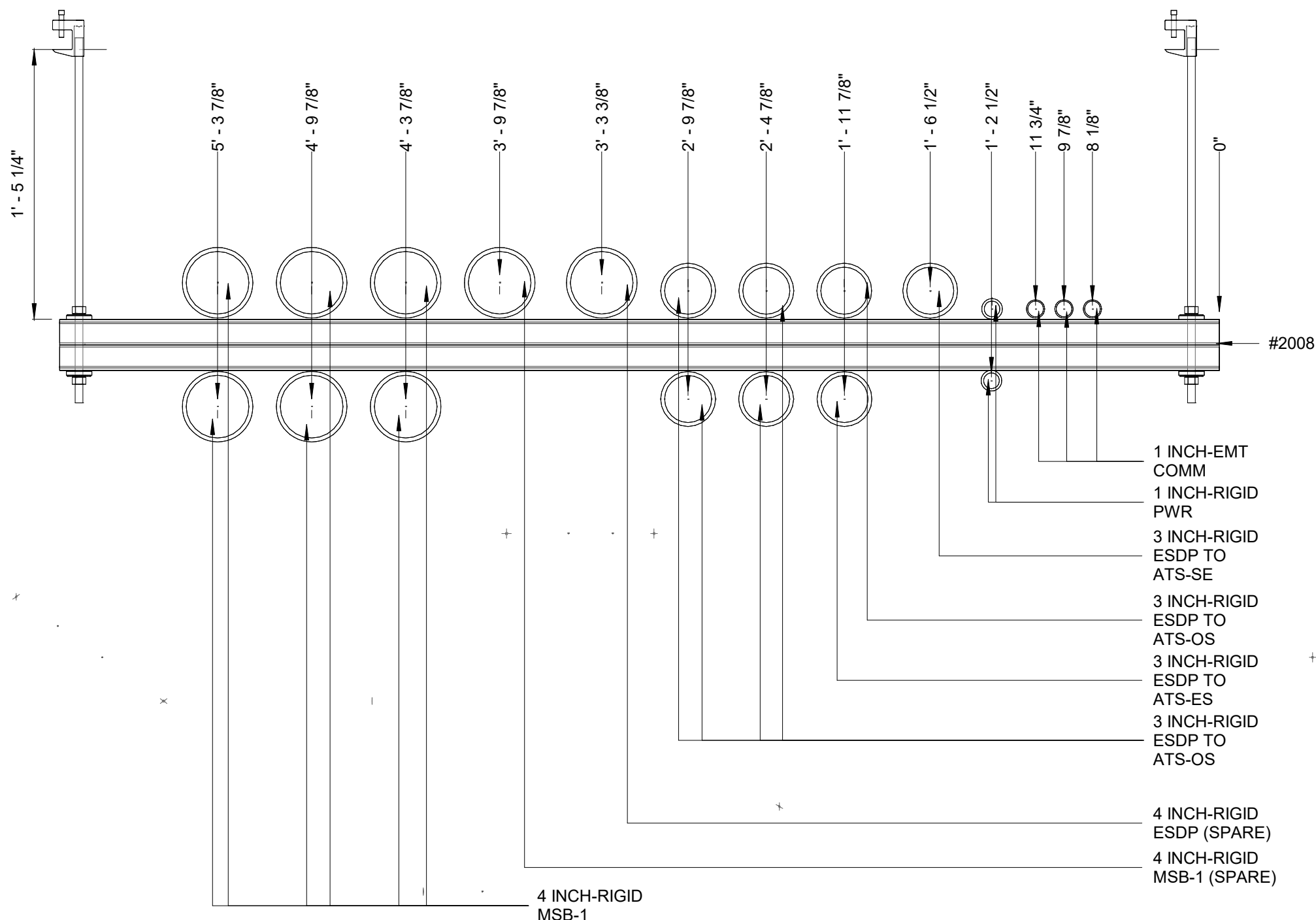
⑭ Section CE-14
1/2" = 1'-0"

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DATE:	7/22/2010	LEVEL:	
FA:	3/2/10 AM	RACK SECTION DETAIL	
DETAIL BY:			
CHK:			
DESIGN:	CHANG	ENGINEER:	SKY TRAIN - RCC
DATE:	7/22/10	PROJECT:	
PROJECT:	PHASED	QA BY:	CE.0.1.1

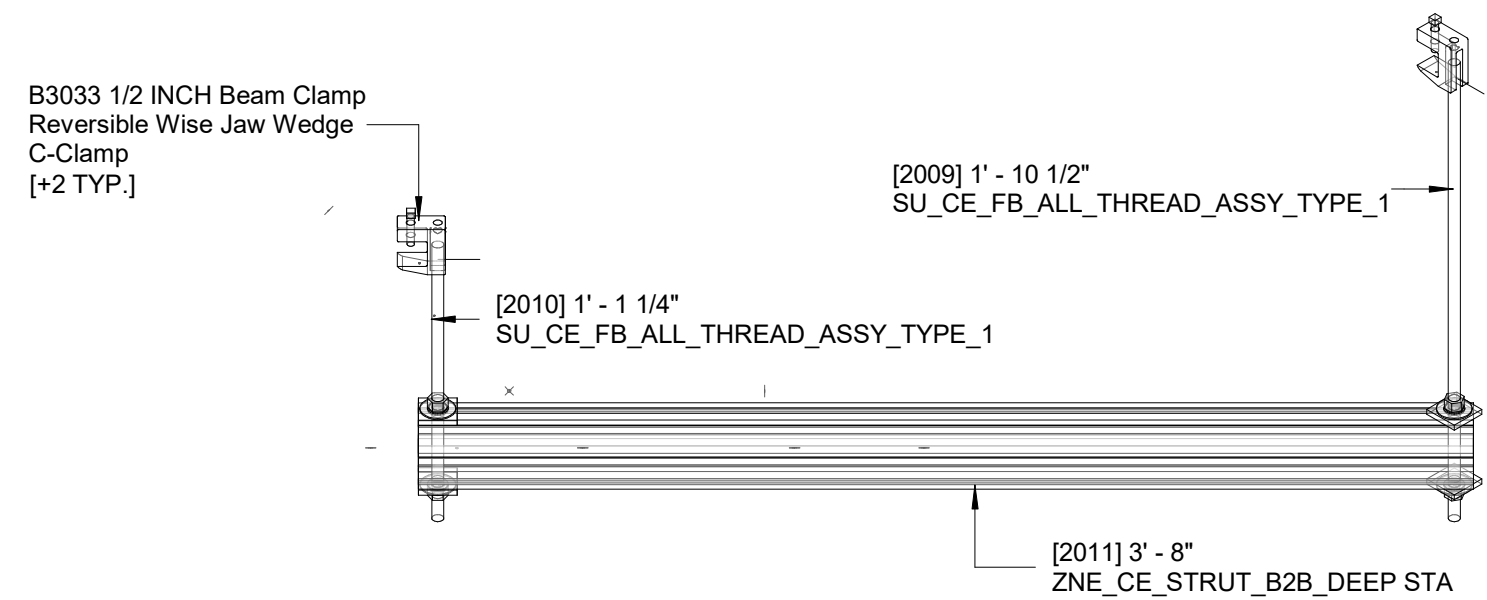
Kit 2



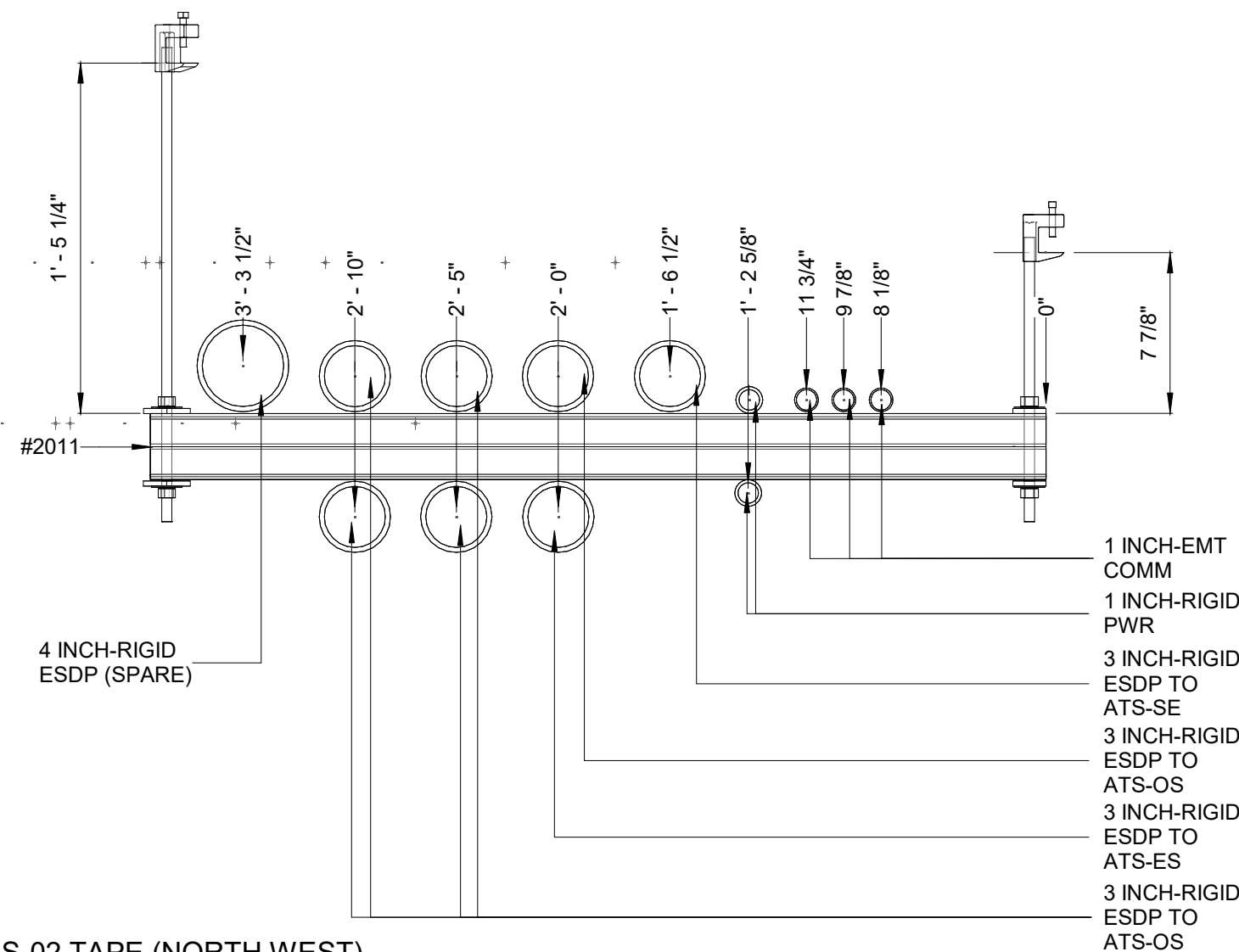
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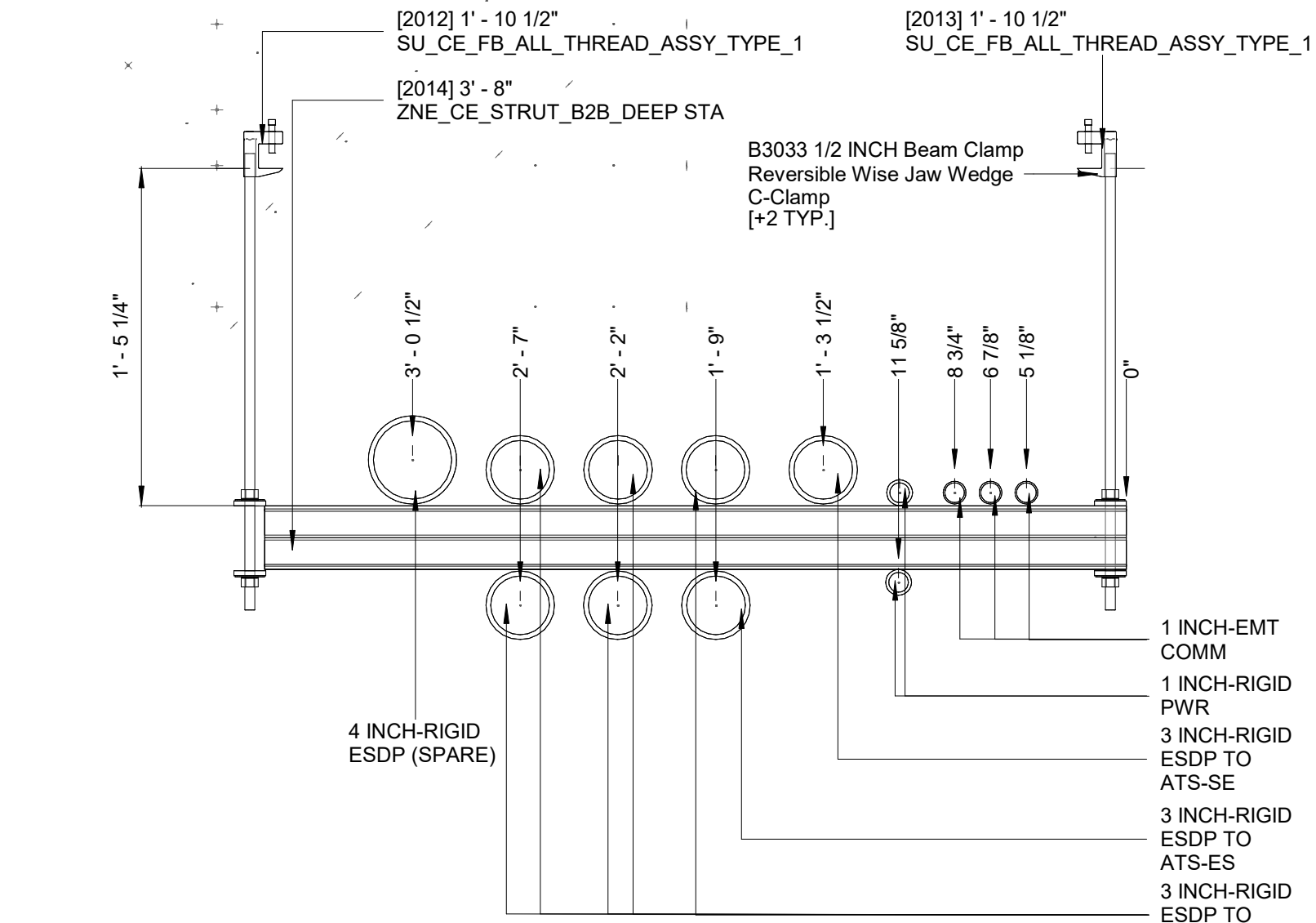
2 KIT 02 HNGR AS-01 TAPE (NORTH)



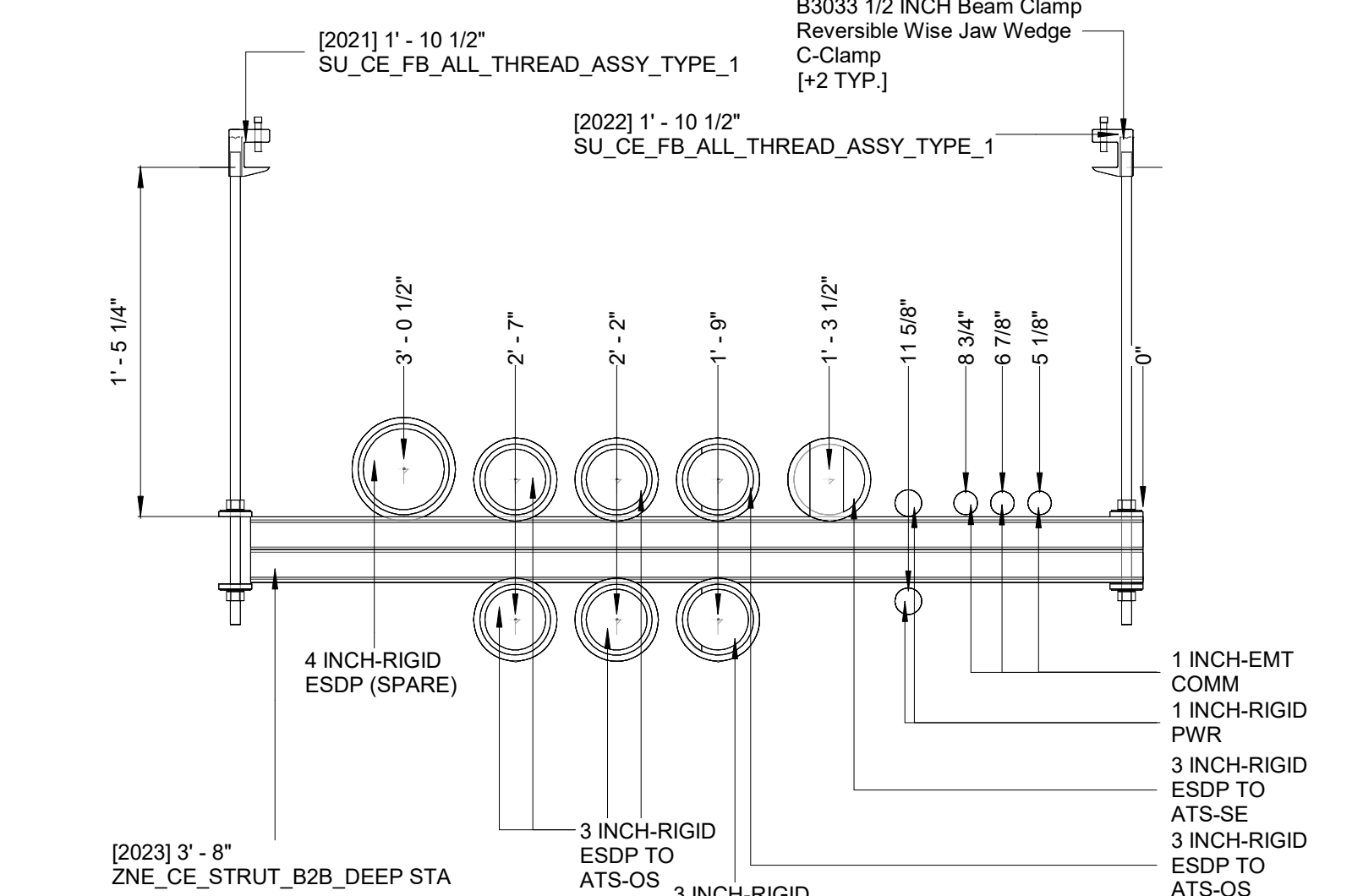
3 KIT 02 HNGR AS-02



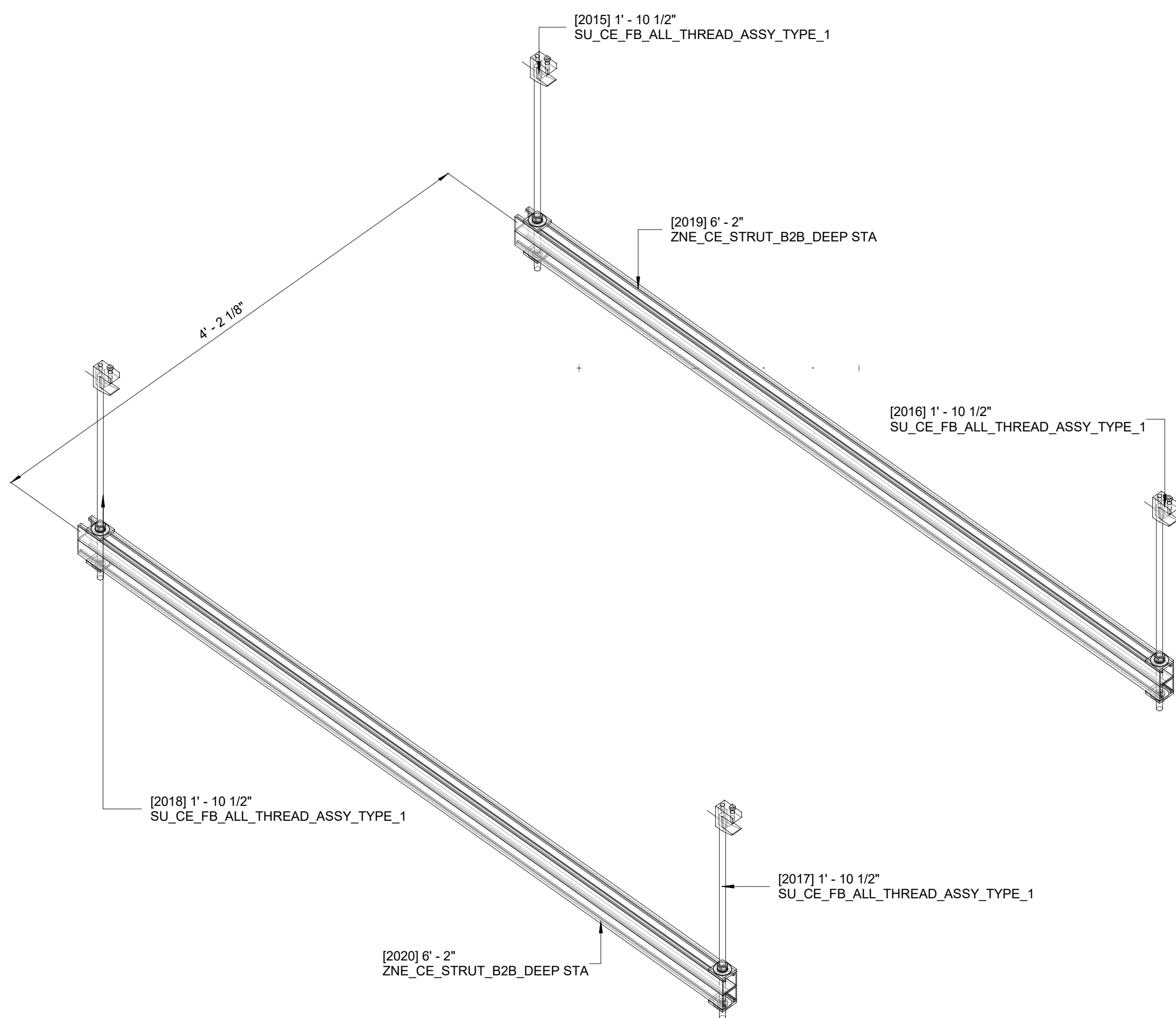
4 KIT 02 HNGR AS-02 TAPE (NORTH WEST)



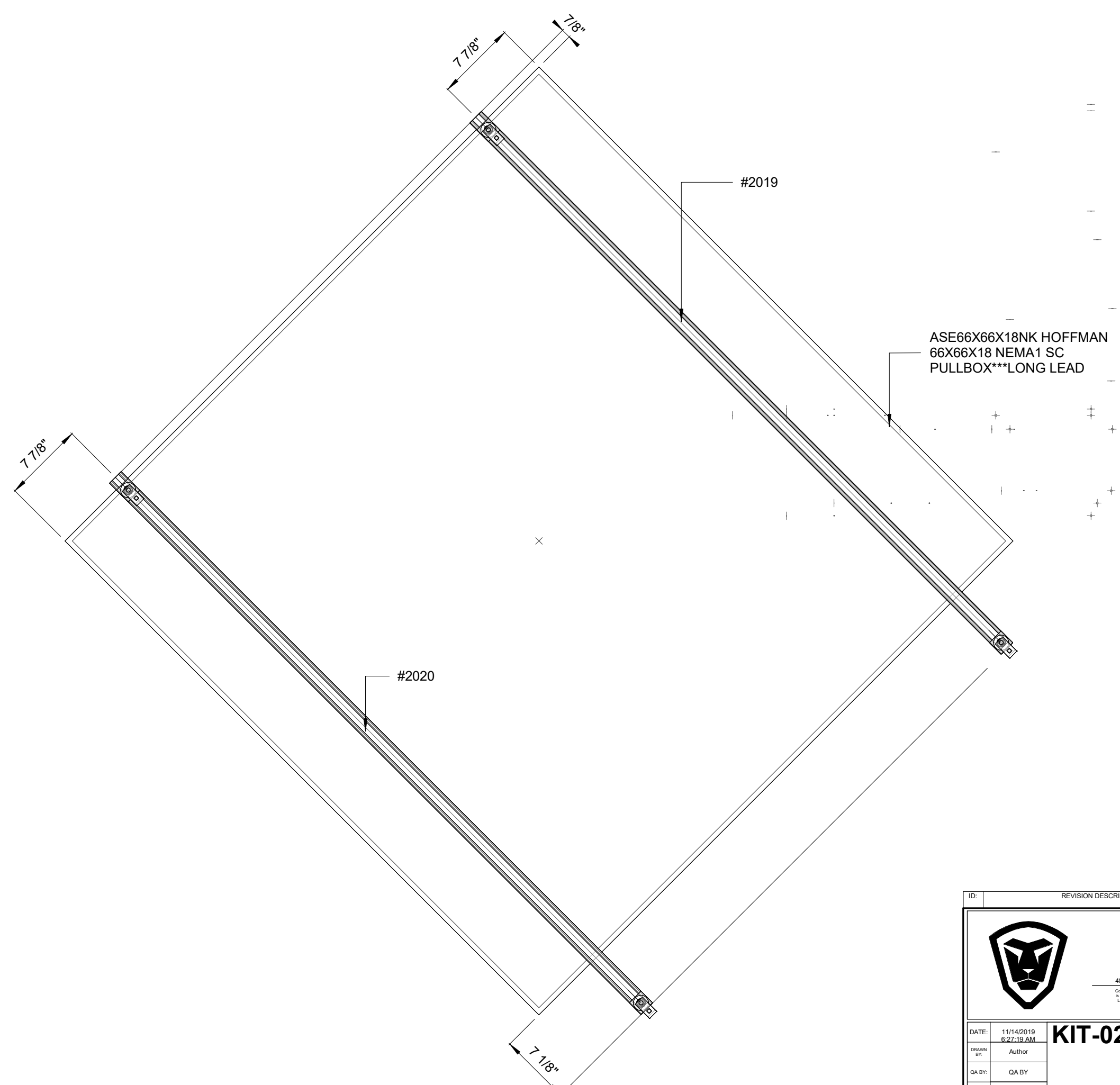
5 KIT 02 HNGR AS-03 TAPE (NORTH WEST)



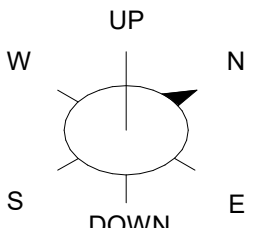
7 KIT 02 HNGR AS-05



6 KIT 02 HNGR AS-04 (EAST)

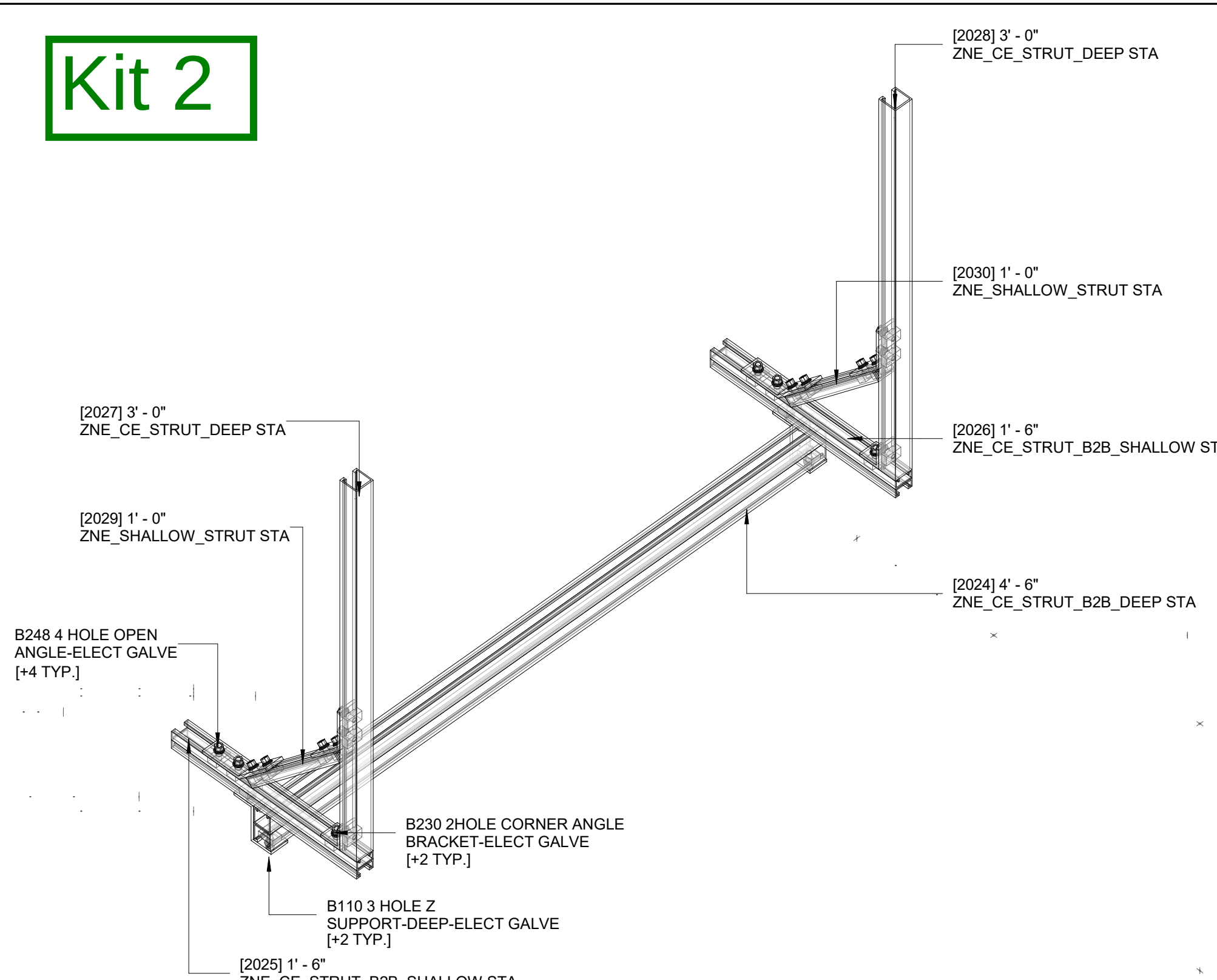


8 KIT 02 HNGR AS-04 (TOP)

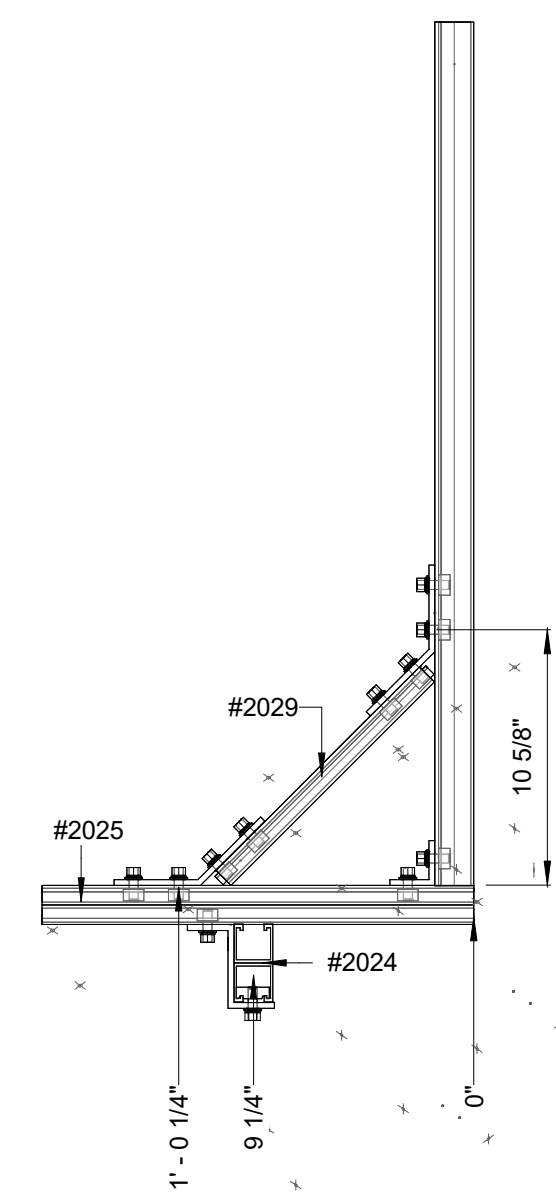


REVISION DESCRIPTION		REVISION	DATE
CORBINS ELECTRIC			
DATE	11/14/2019	DATE	11/14/2019
BY	JEFF QUIGLEY	BY	JEFF QUIGLEY
CHK BY	GARY	CHK BY	GARY
DR	JEFF QUIGLEY	DR	JEFF QUIGLEY
PR	11/14/2019	PR	11/14/2019
APP	11/14/2019	APP	11/14/2019
DESIGN	SKY TRAIN - RCC	DESIGN	SKY TRAIN - RCC
AREA	PORTION	AREA	PORTION
PROJECT	PHASE	PROJECT	PHASE
KIT-02 HNGR DETAIL		E2.1.1	

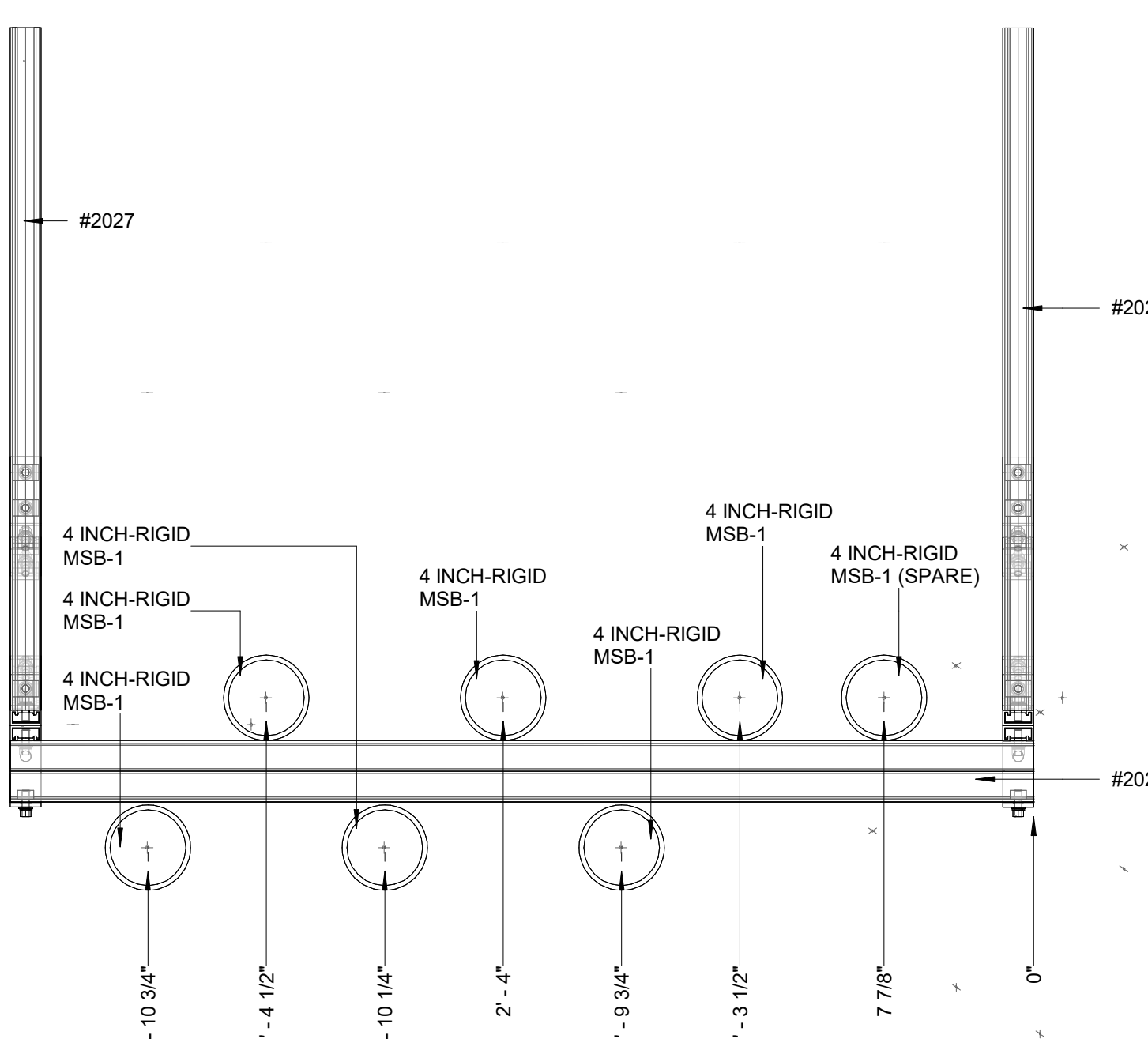
Kit 2



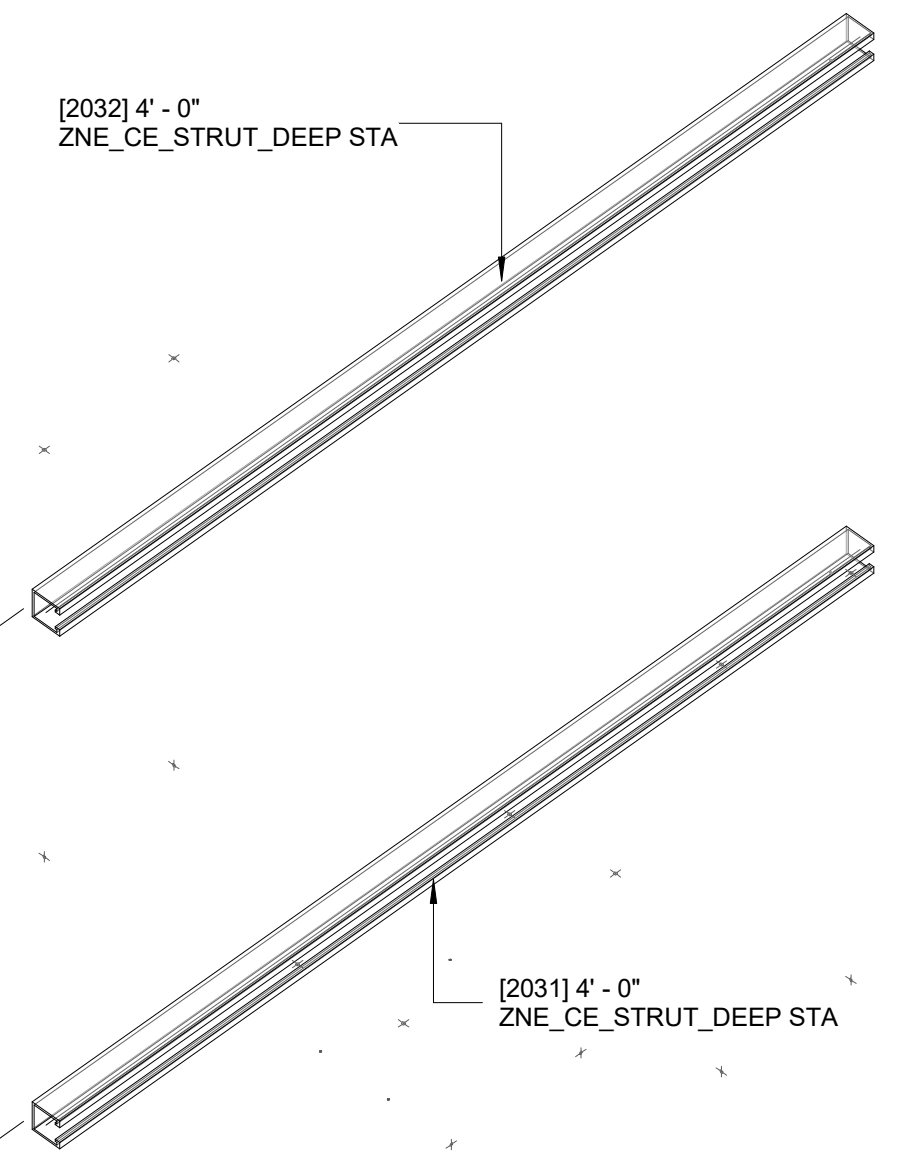
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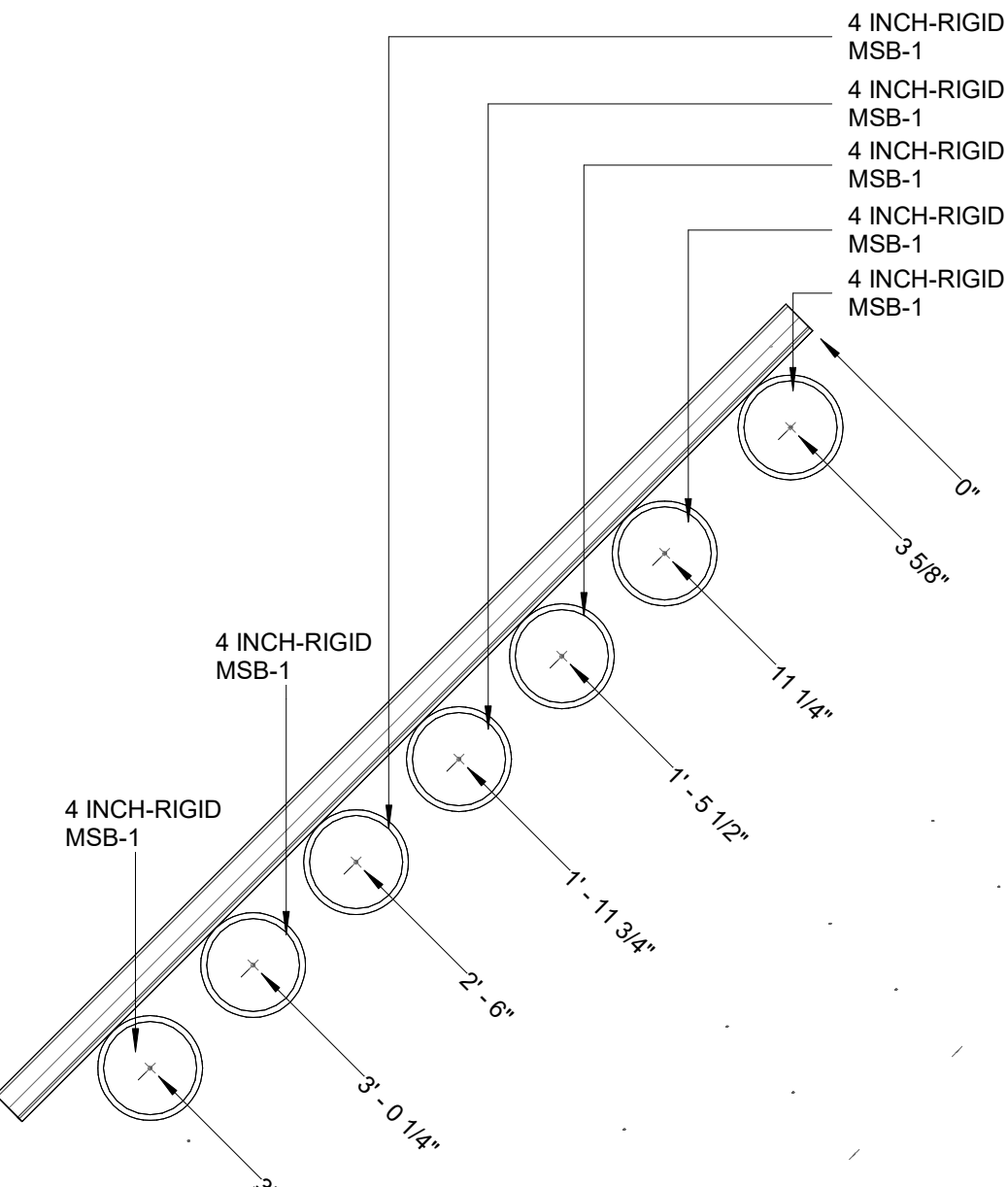
KIT 02 HNGR AS-06 DETAIL (SOUTH
EAST) +2 TYP.



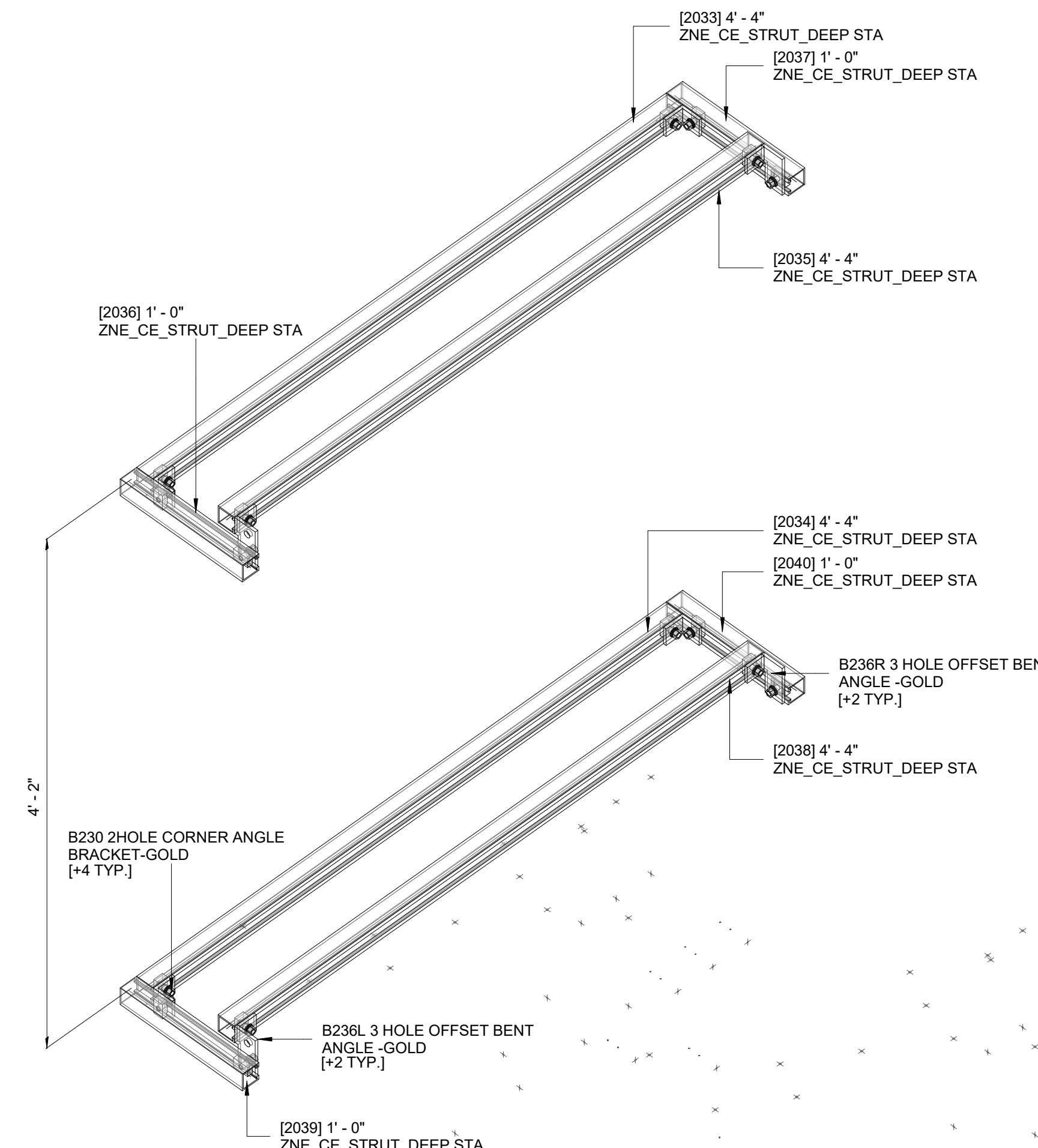
3 KIT 02 HNGR AS-06 TAPE (EAST NORTH)



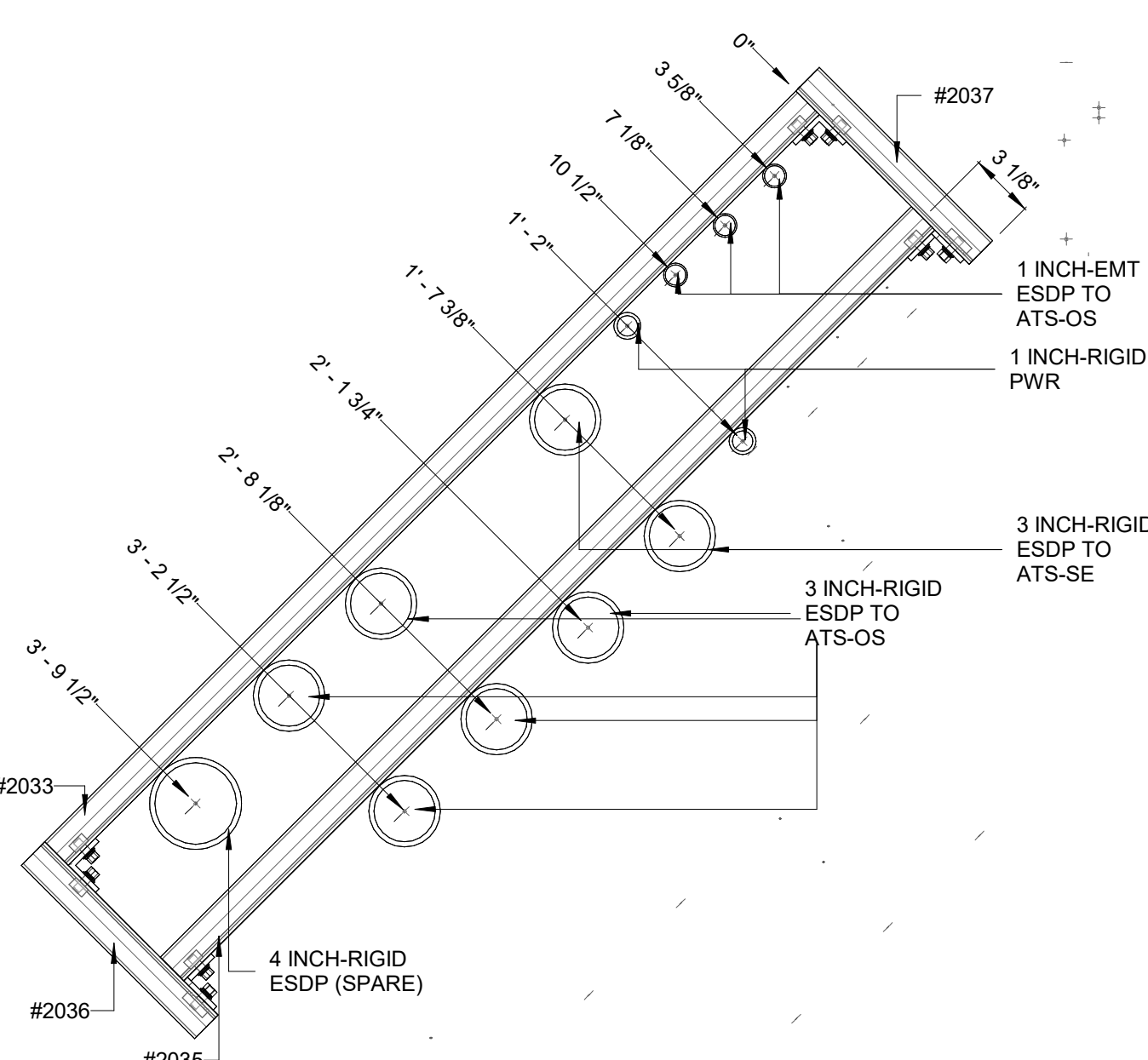
4 KIT 02 HNGR AS-07 (EAST)



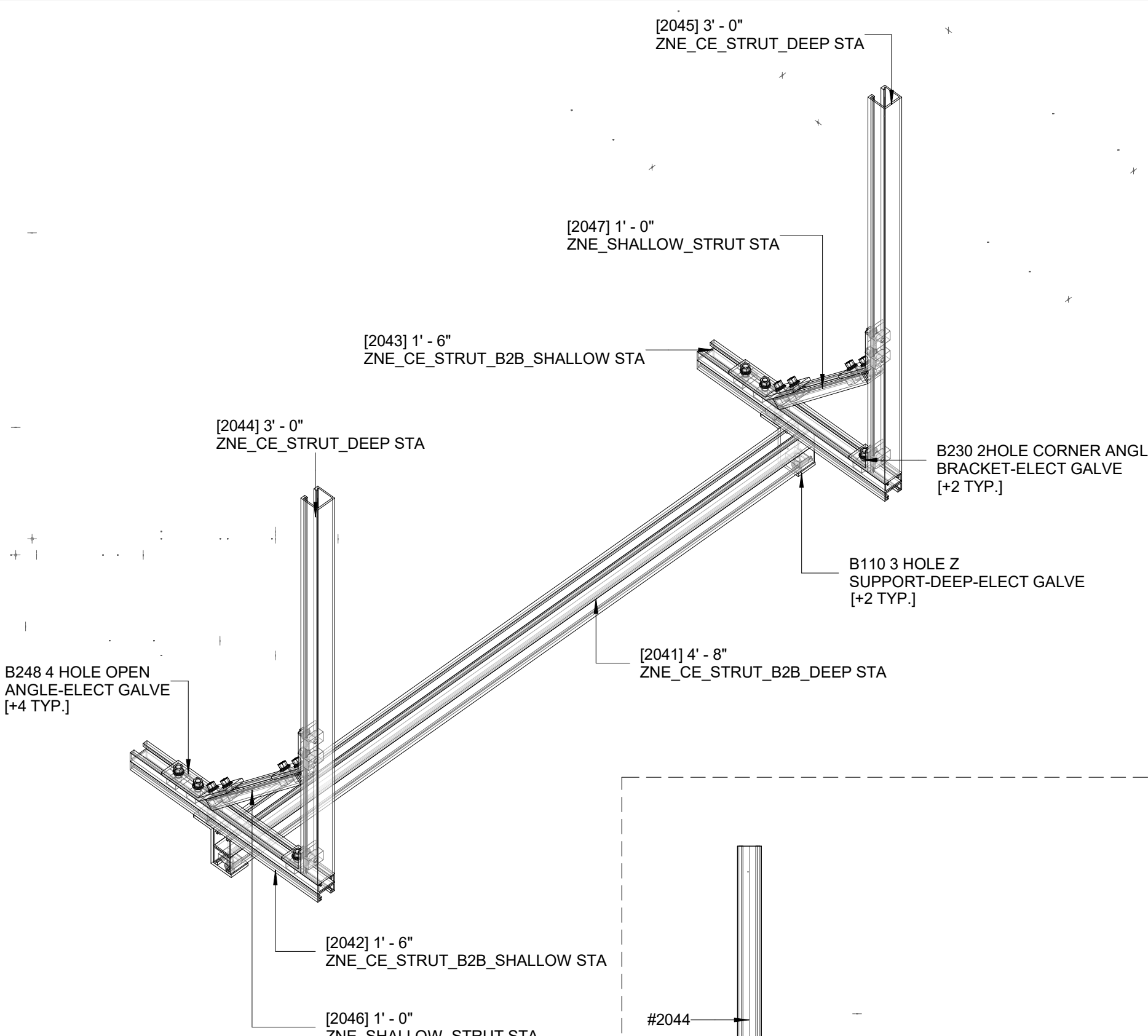
5 KIT 02 HNGR AS-07 TAPE (TOP) +2TYP.



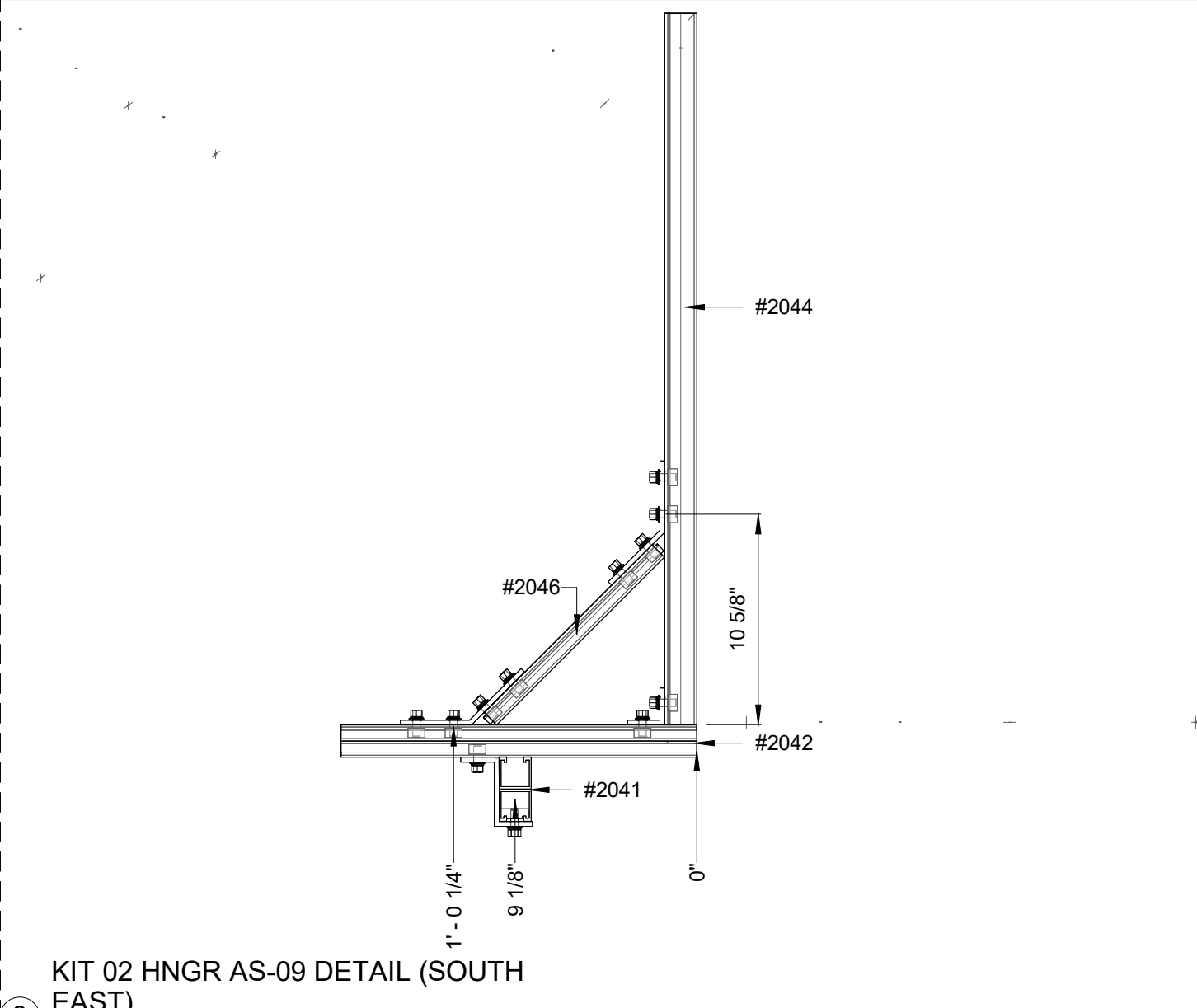
6 KIT 02 HNGR AS-08 (EAST)



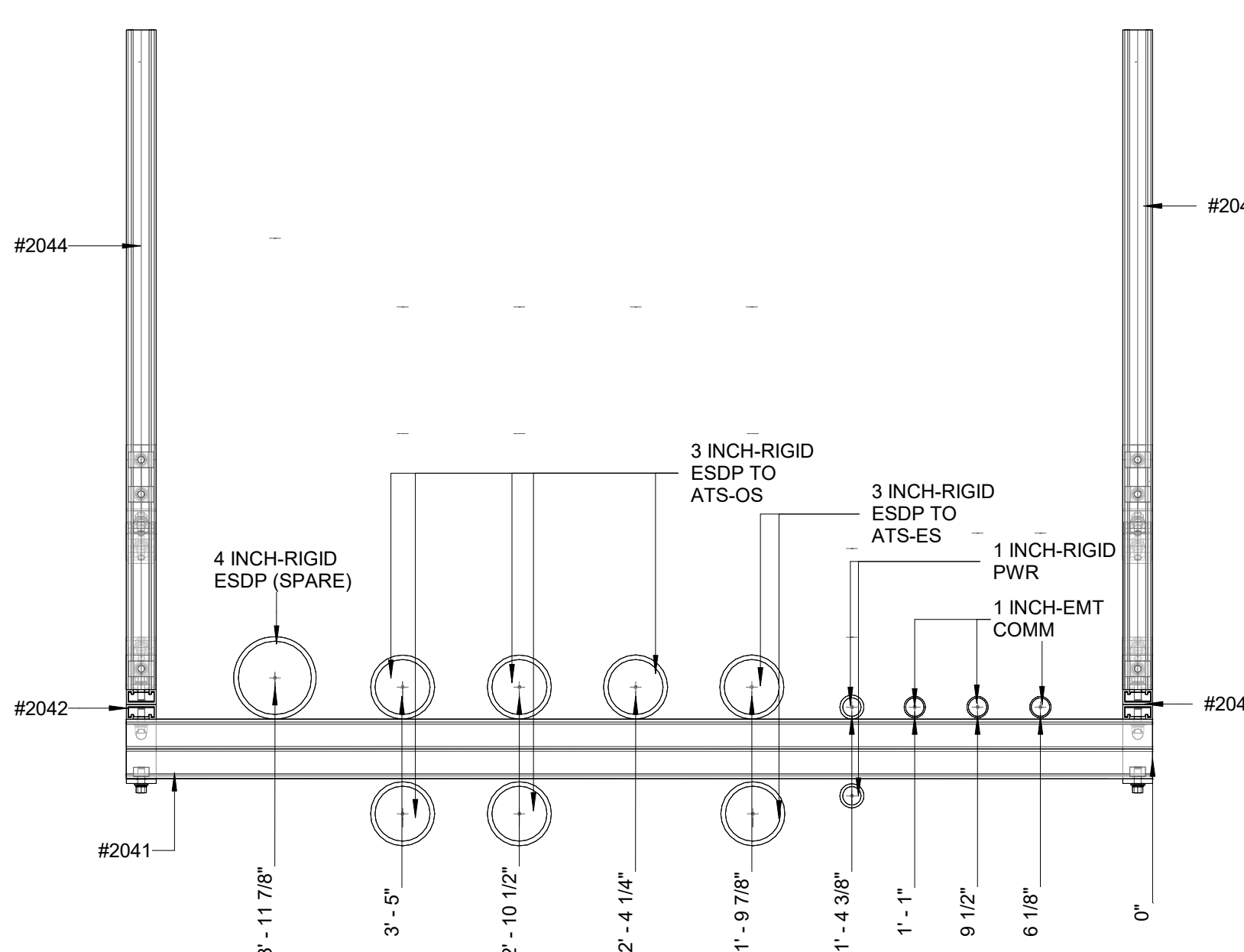
7 KIT 02 HNGR AS-08 TAPE (TOP) +2 TYP.



8 KIT 02 HNGR AS-09 (EAST)

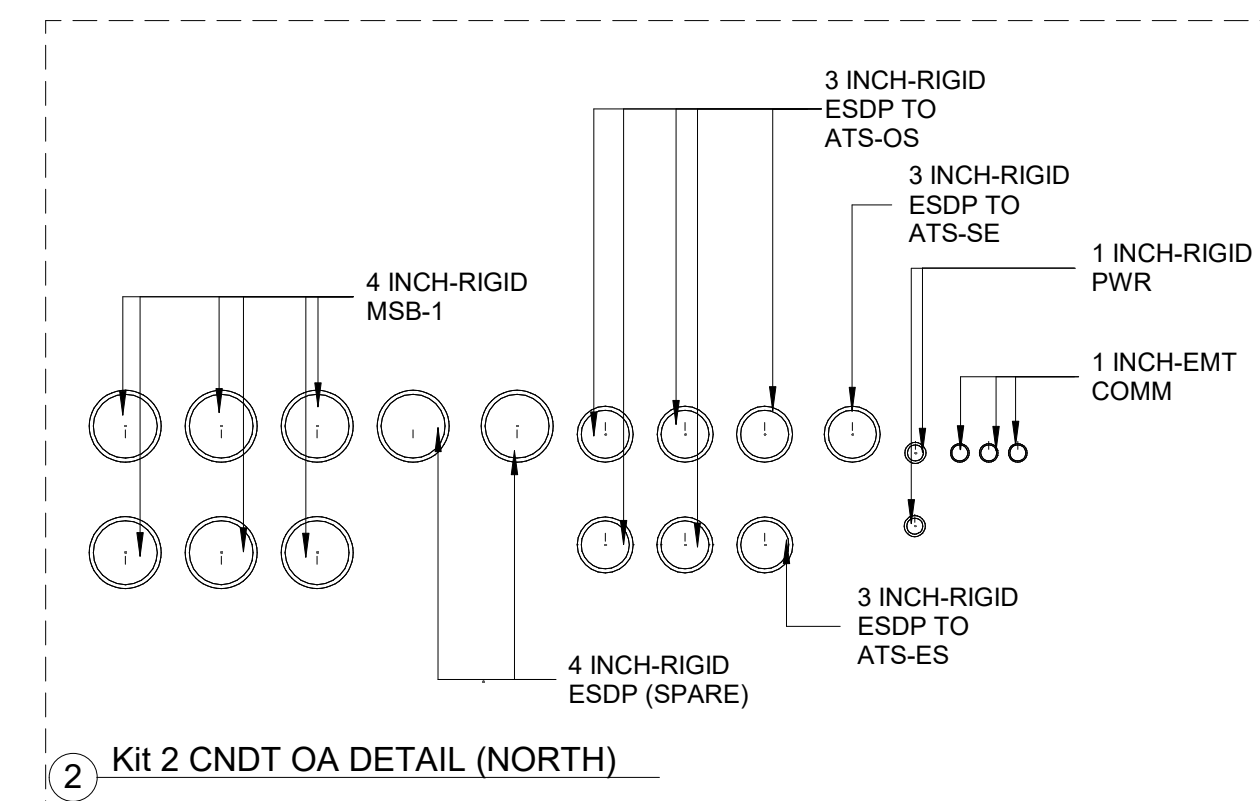
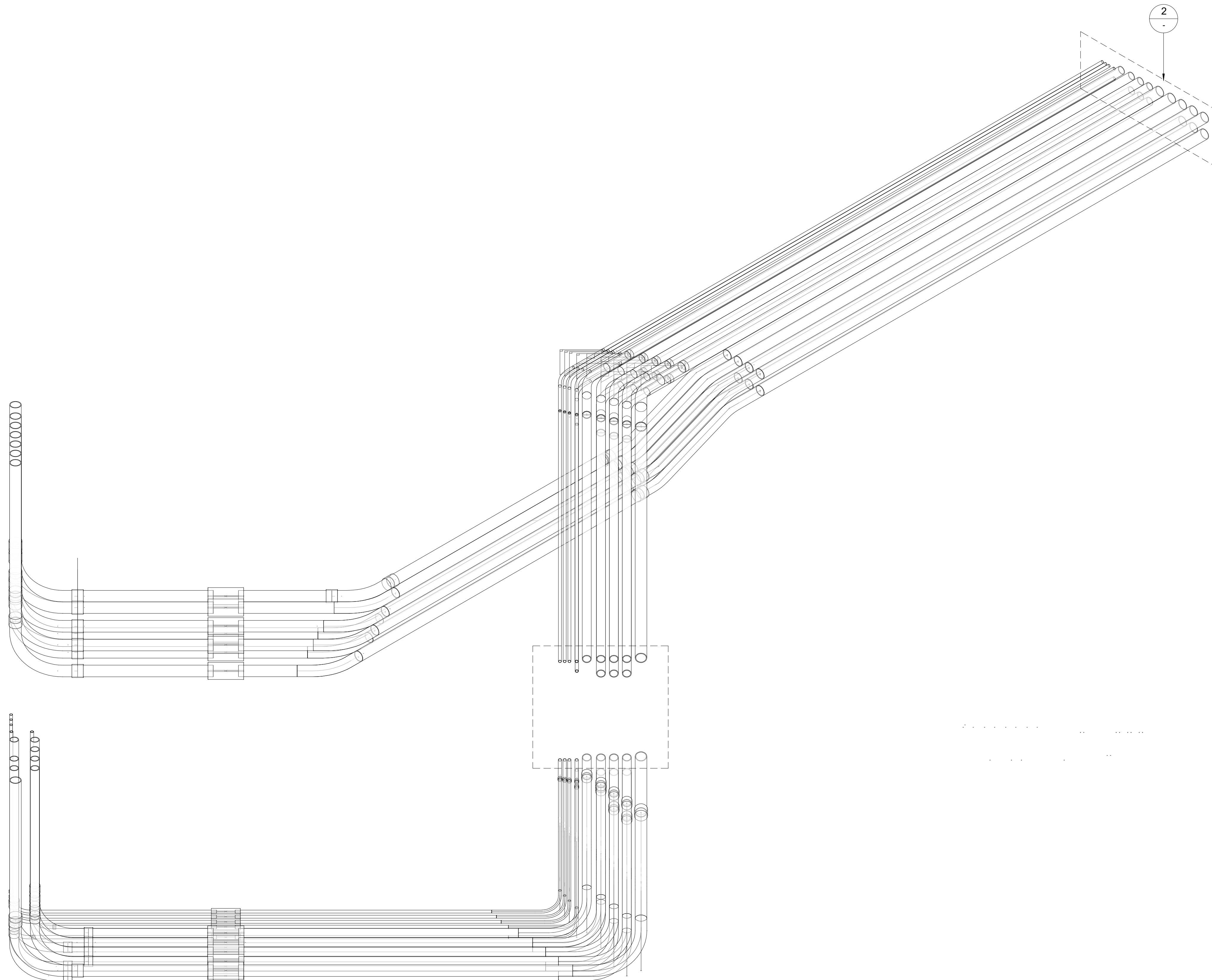


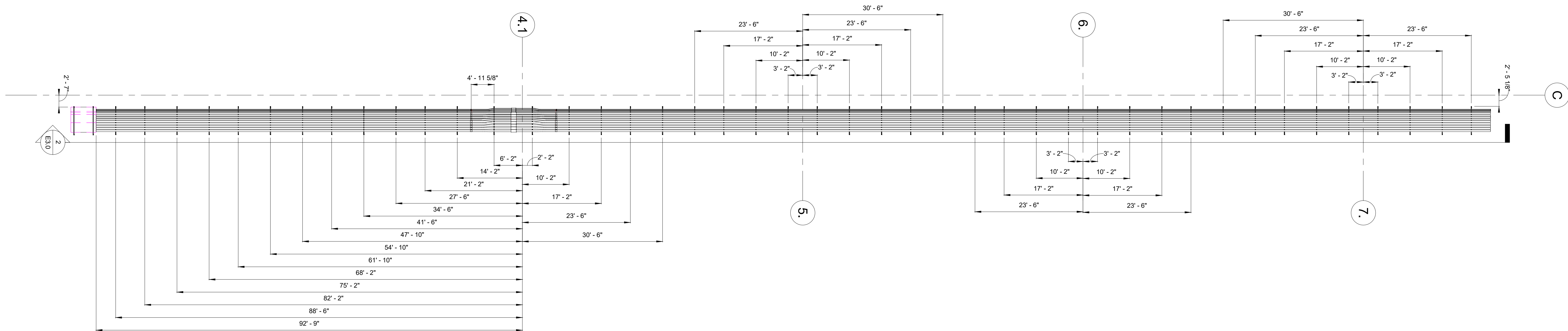
KIT 02 HNCR AS-09 DETAIL (SOUTH EAST)



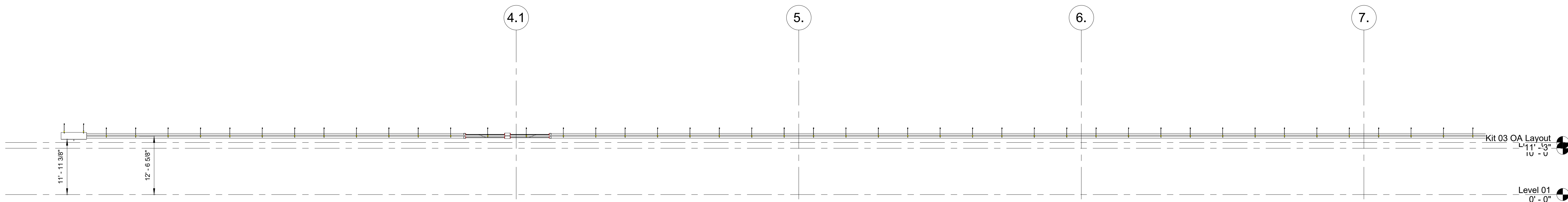
10 KIT 02 HNGR AS-09 TAPE (EAST NORTH)

81	REVISION DESCRIPTION	ISSUED BY	DATE
 CORBINS ELECTRIC 4525 S 38th, Phoenix, AZ 85041, PH: (602)737-6000 CORBINS ELECTRIC, A PROFESSIONAL CORPORATION, IS AN EQUAL OPPORTUNITY/ AFFIRMATIVE ACTION EMPLOYER. WE DO NOT DISCRIMINATE ON THE BASIS OF RACE, SEX, RELIGION, NATIONAL ORIGIN, ANCESTRY, COLOR, AGE, SEXUAL ORIENTATION, OR ANY OTHER ILLEGAL BASIS. WE ARE AN A/E/C/F FIRM.			
DATE	1/11/2012	KIT-02 HNGR DETAIL	
PROJECT	8-02-02 (R)		
BY	Author		
DATE BY	QA BY		
NO.	JEFF QUINTERO		
10	U PAPER	PROJECT SKY TRAIN - RCC AREA: PORTION SHEET 1	
20	120407		
2000	120407		





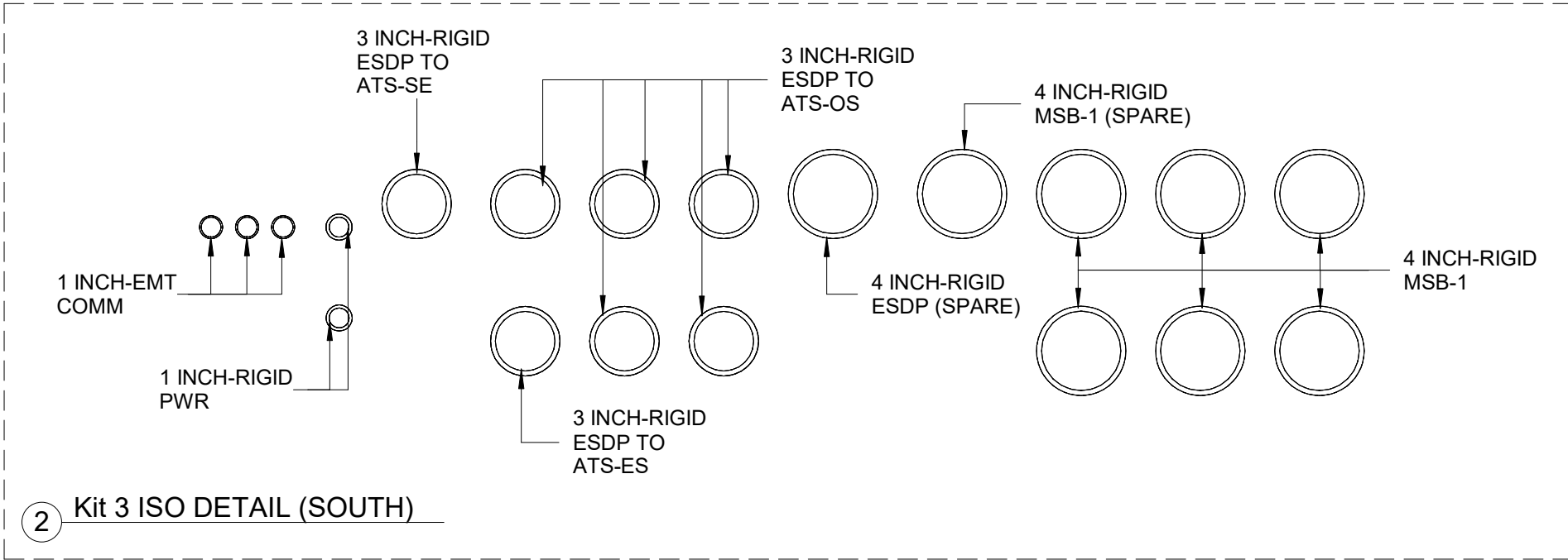
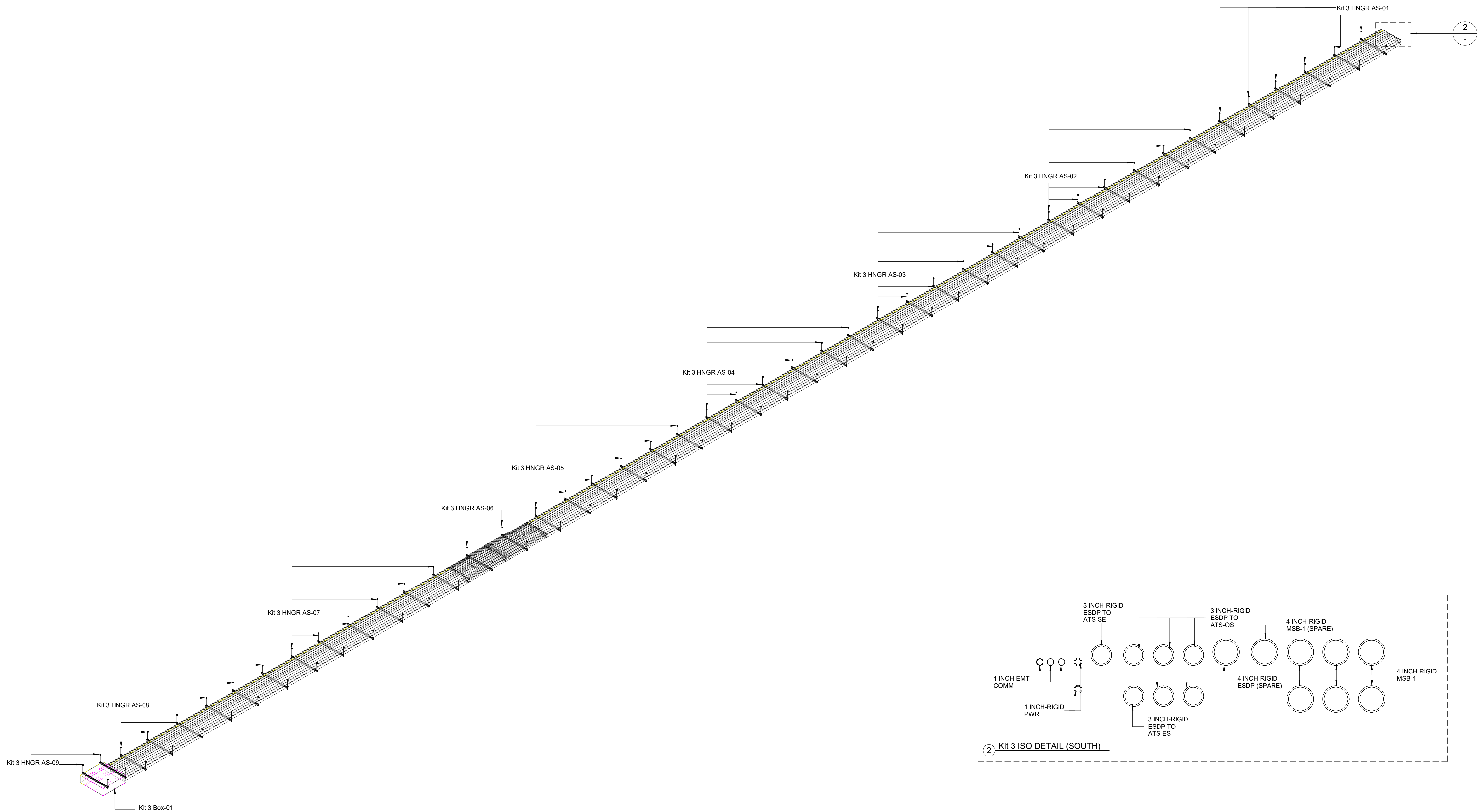
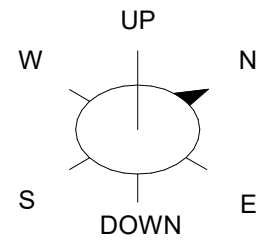
3/32" = 1'-0"
Kit 03 OA Layout



Kit 3 OA Elevation (EAST)
3/32" = 1'-0"

REVISION DESCRIPTION		REVISION	DATE
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DATE: 10/20/2010		10/20/2010	
BY: JEFF		J.E.	
CHECKED: JEFF		J.E.	
PROJECT: SKY TRAIN - RCC		PROJECT: SKY TRAIN - RCC	
AREA: PORTION		SHEET: E3.0	

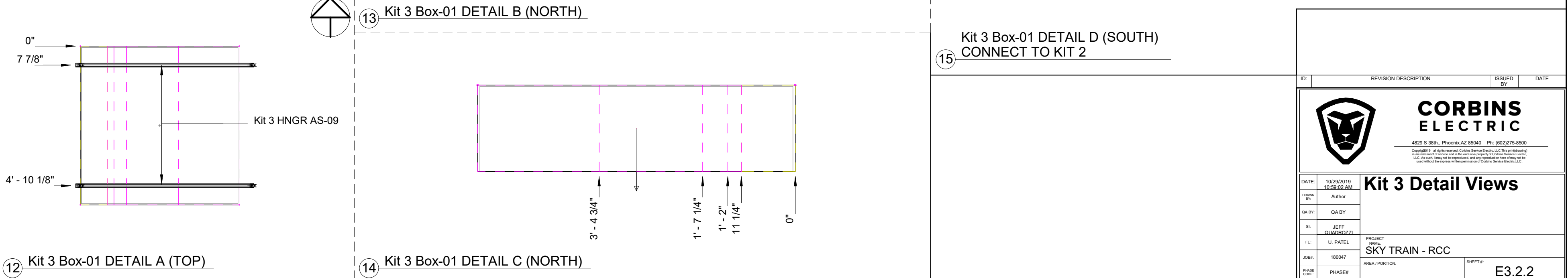
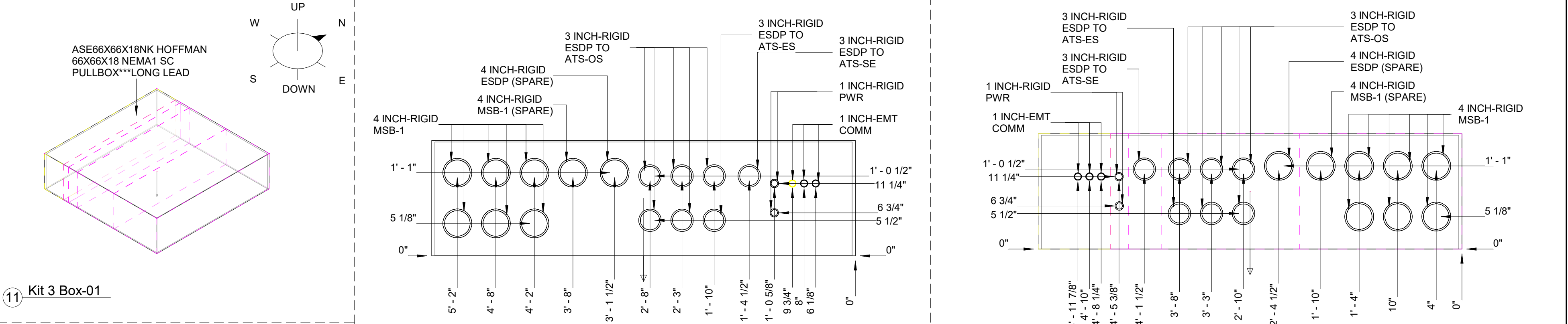
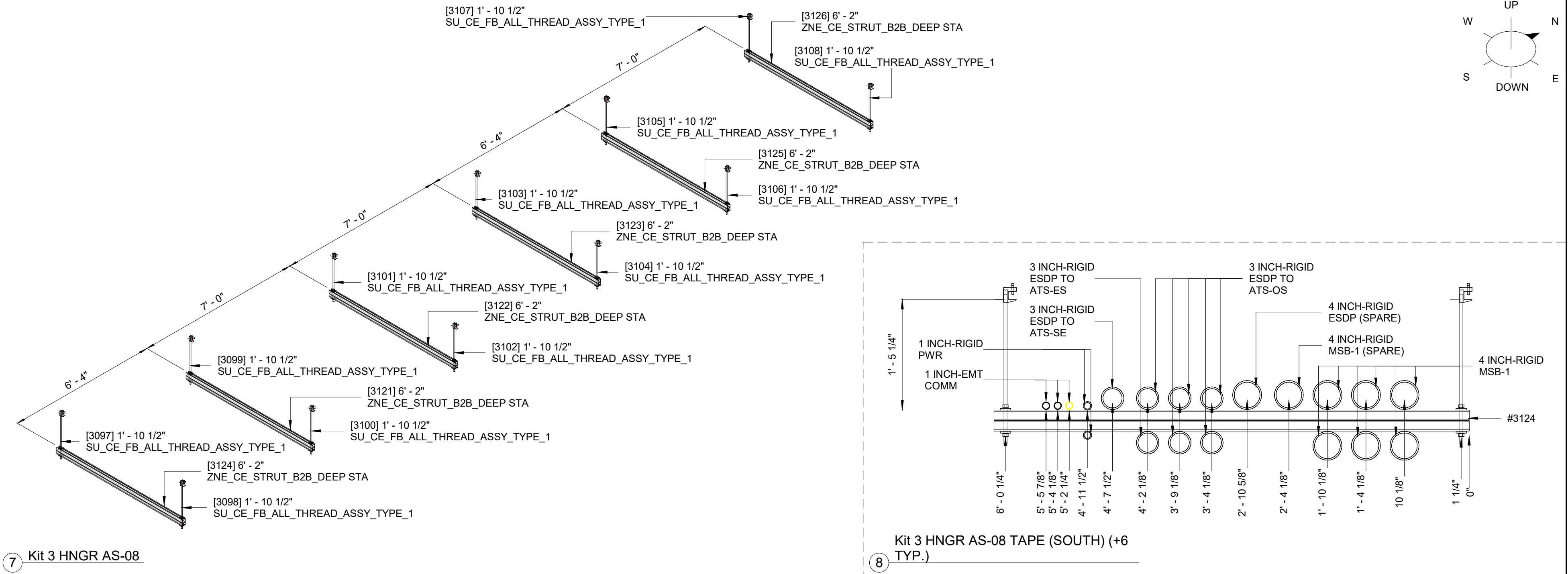
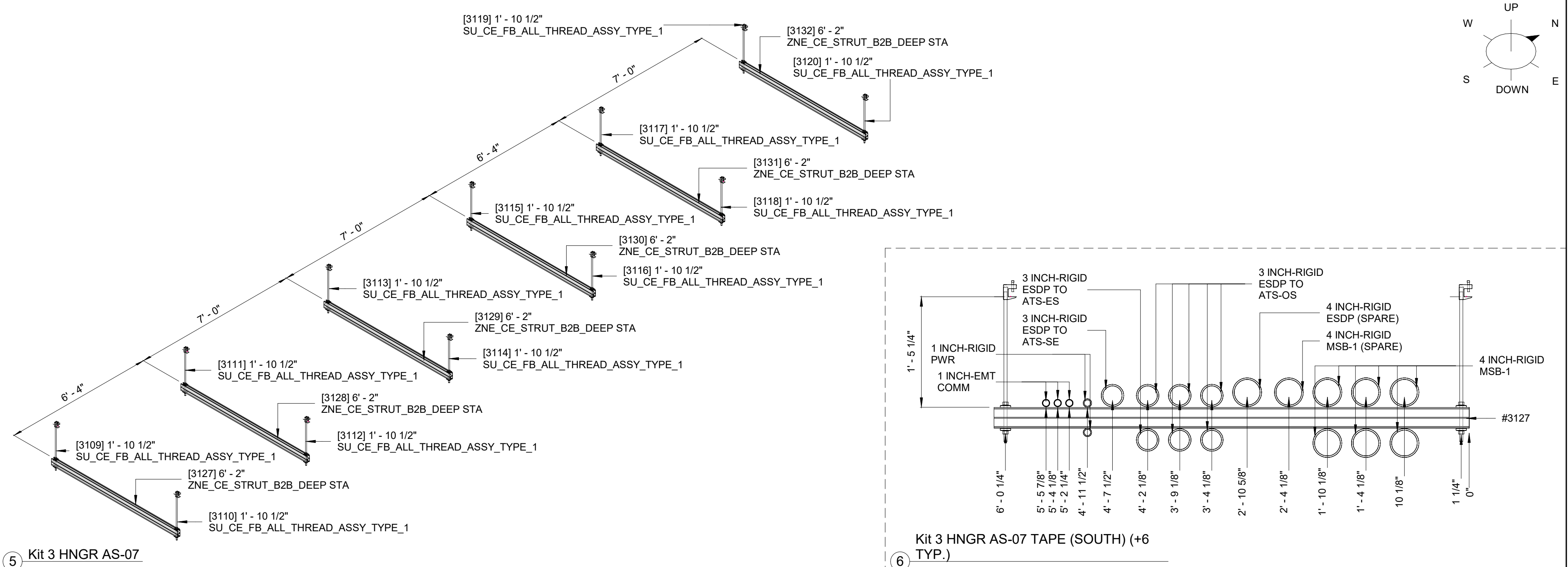
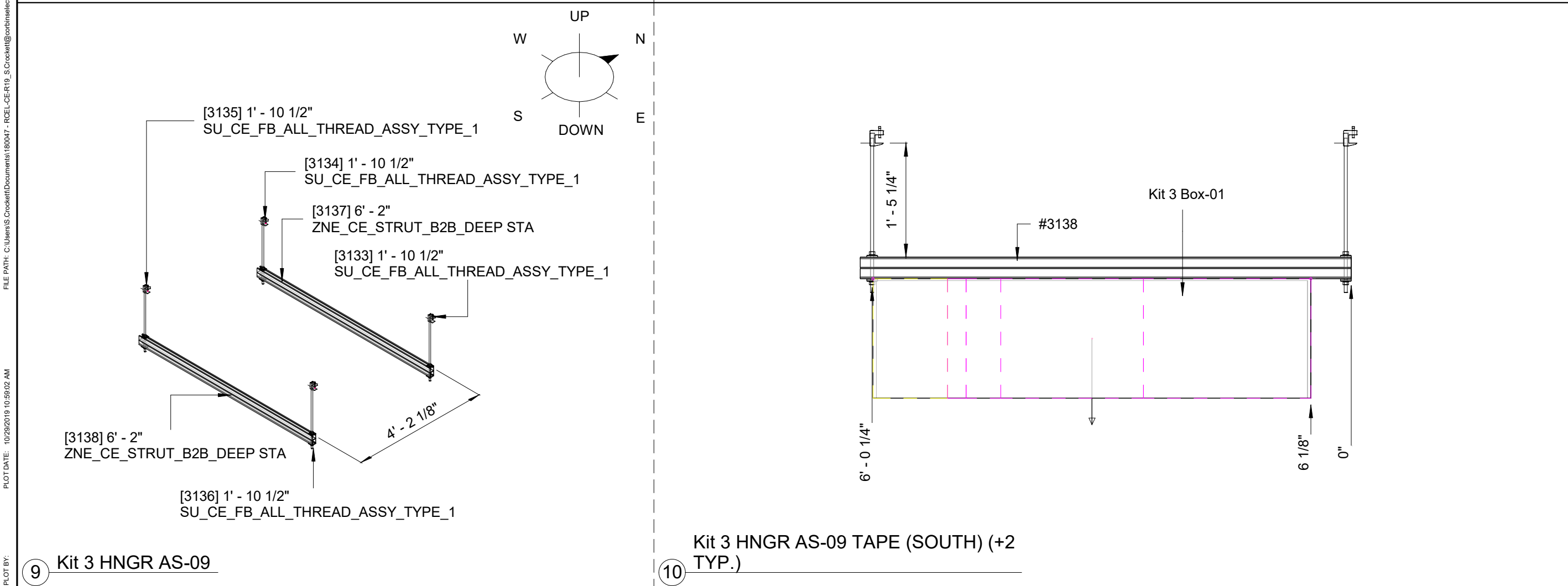
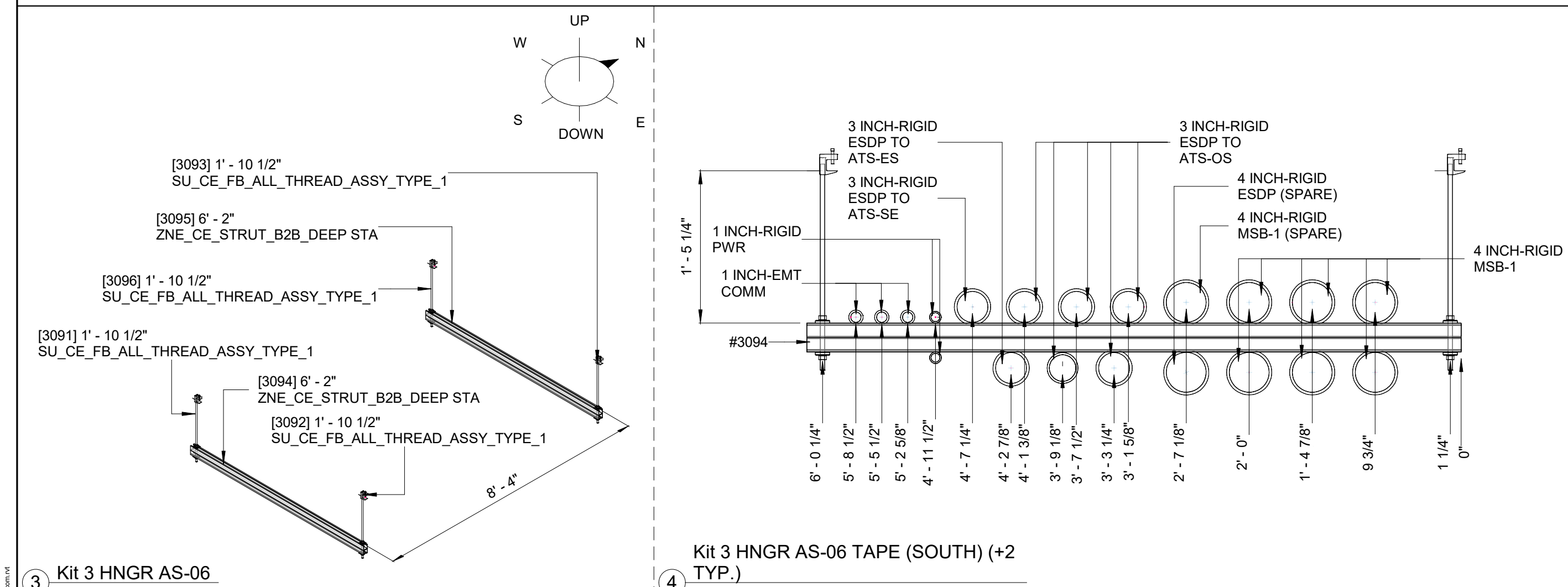
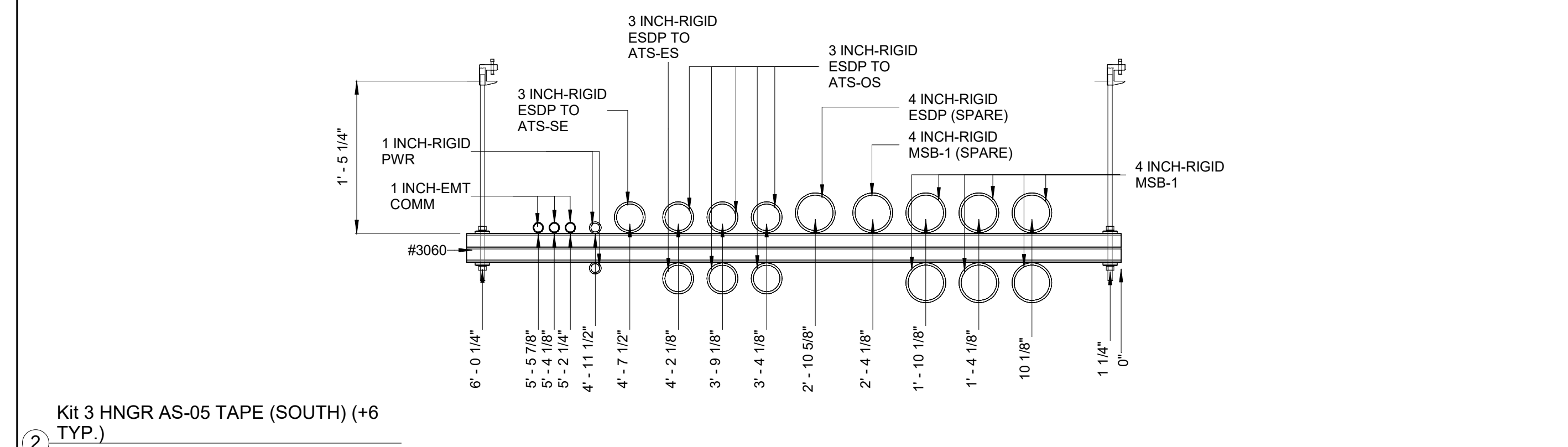
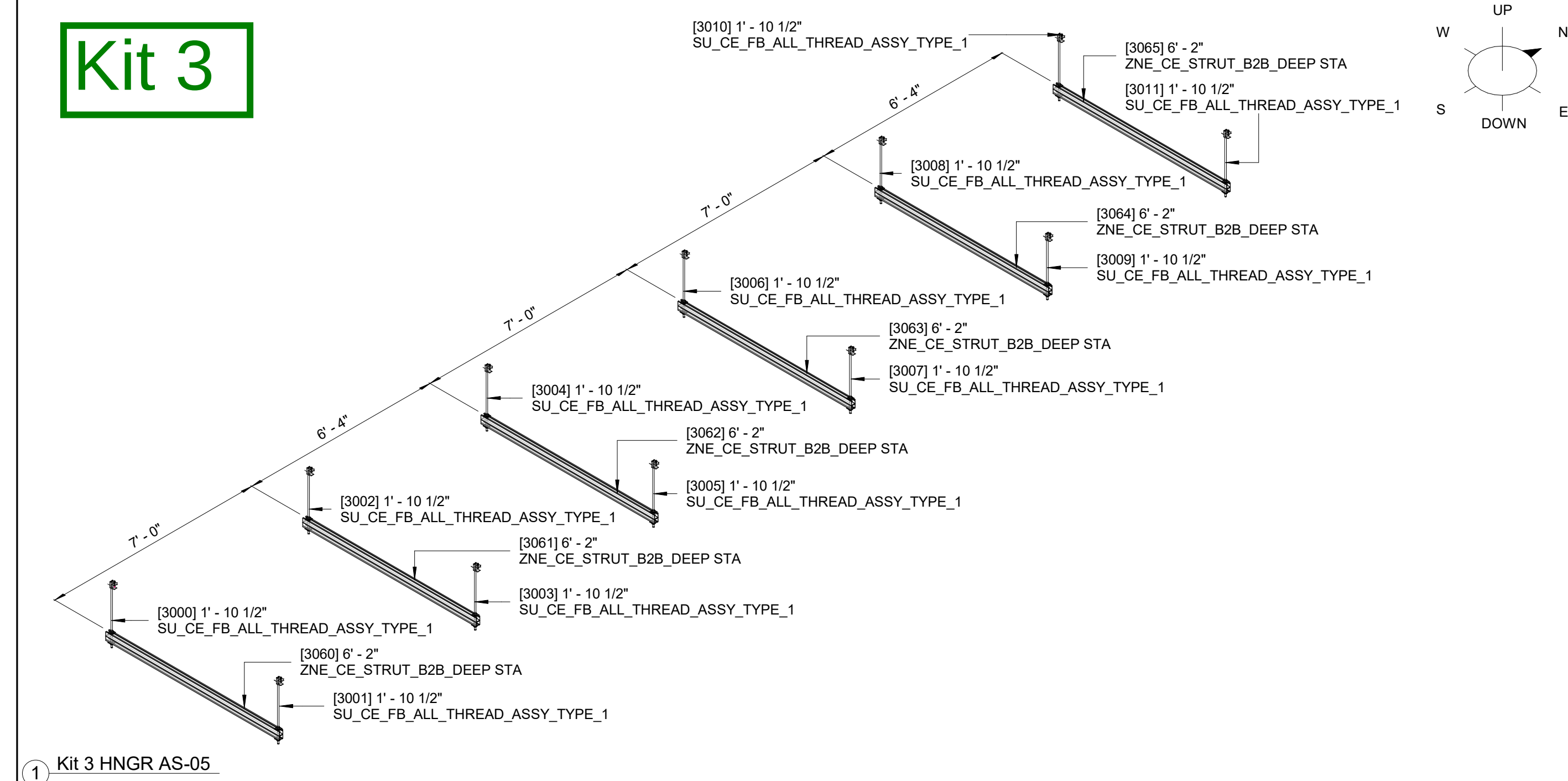
Kit 3



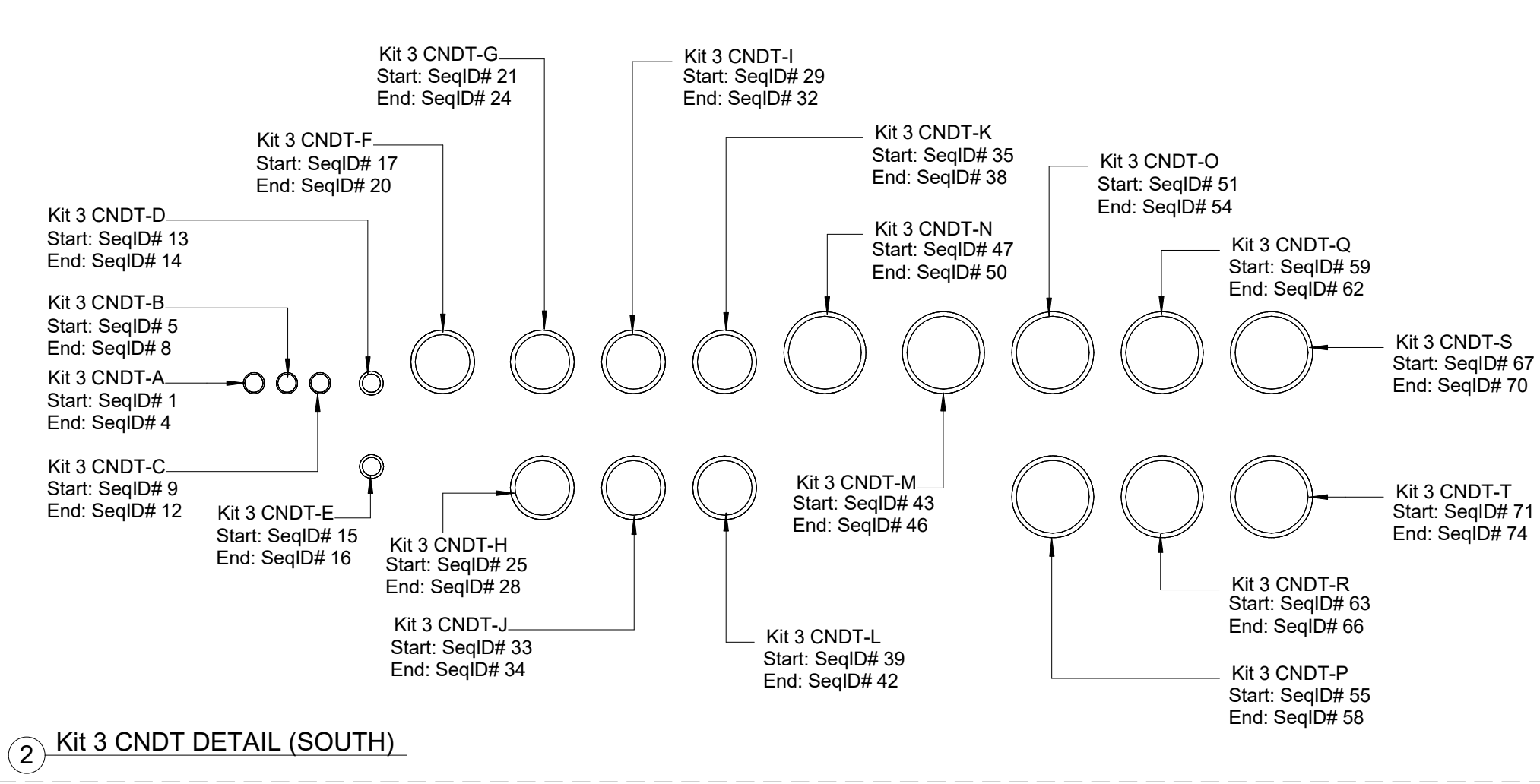
1 Kit 3 OA ISO View

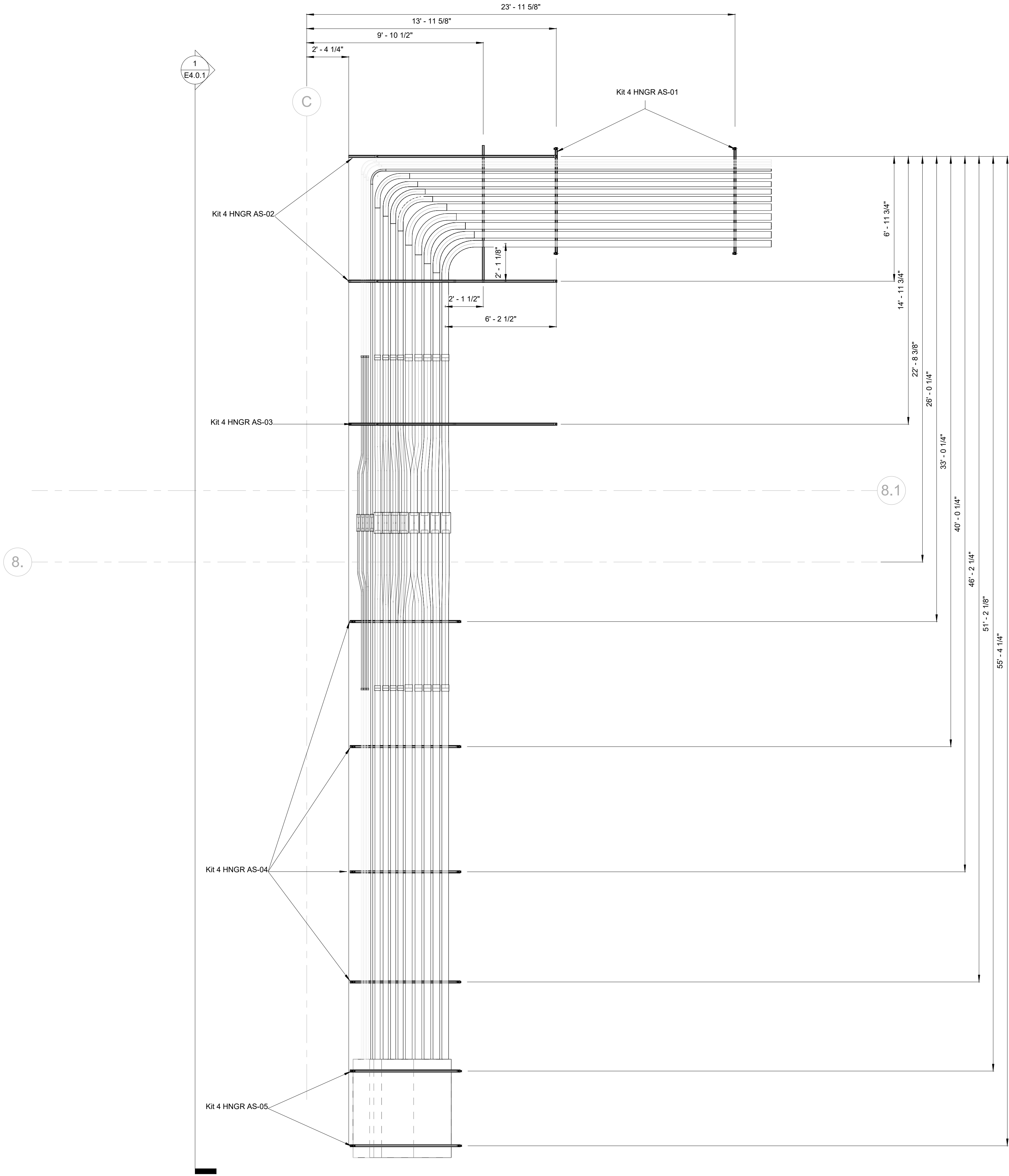
REVISION DESCRIPTION		ISSUED BY	DATE
CORBINS ELECTRIC			
4870 S 3000th, Phoenix, AZ 85040 PH: 602.773.8900			
DATE: 10/20/2010		Kit 3 OA ISO View	
DRAWN: A. BRY			
CHK BY: GARY			
BY: JEFF			
QUANTITY:			
BY: J. H. H. H.			
DATE: 10/20/2010		SKY TRAIN - RCC	
AREA: PORTION		SHEET: 9	
PHASE:		E3.1	

Kit 3



PLOT 89: PLOT DATE: 10/20/2019 10:59:05 AM FILE PATH: C:\Users\S_Crochett\Documents\160047 - RCCL-CF-R19_S_Crochett\cobiased160047.com.net

PLOT BY: PLOT DATE: 10/29/2019 10:29:06 AM



P:\2 P&H\ C:\Users\CS\Documents\Work\2025\CE\Kit 4\Kit 4 Plan View OA.dwg
PLOT DATE: 11/20/25 2:25:29 AM
PLOT BY:

REVISION DESCRIPTION		REVISION	DATE

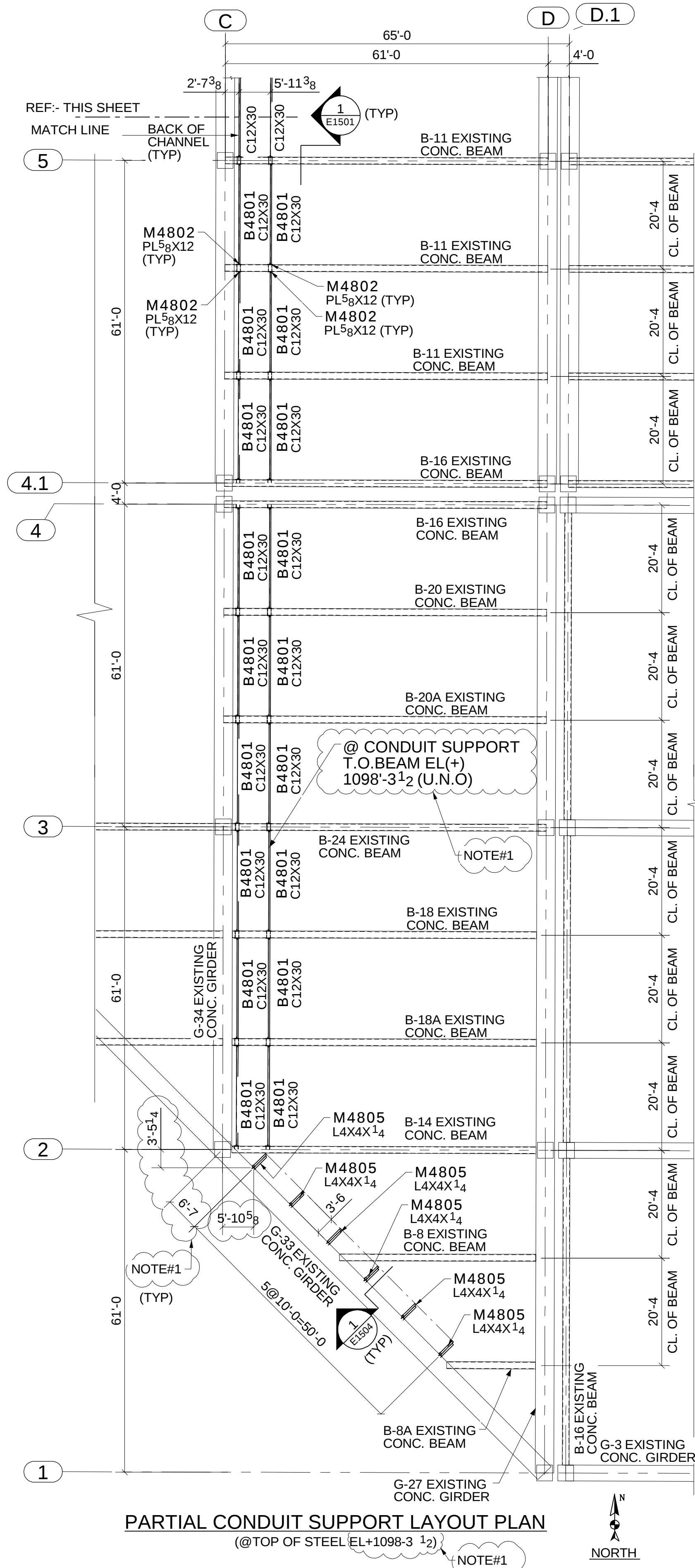
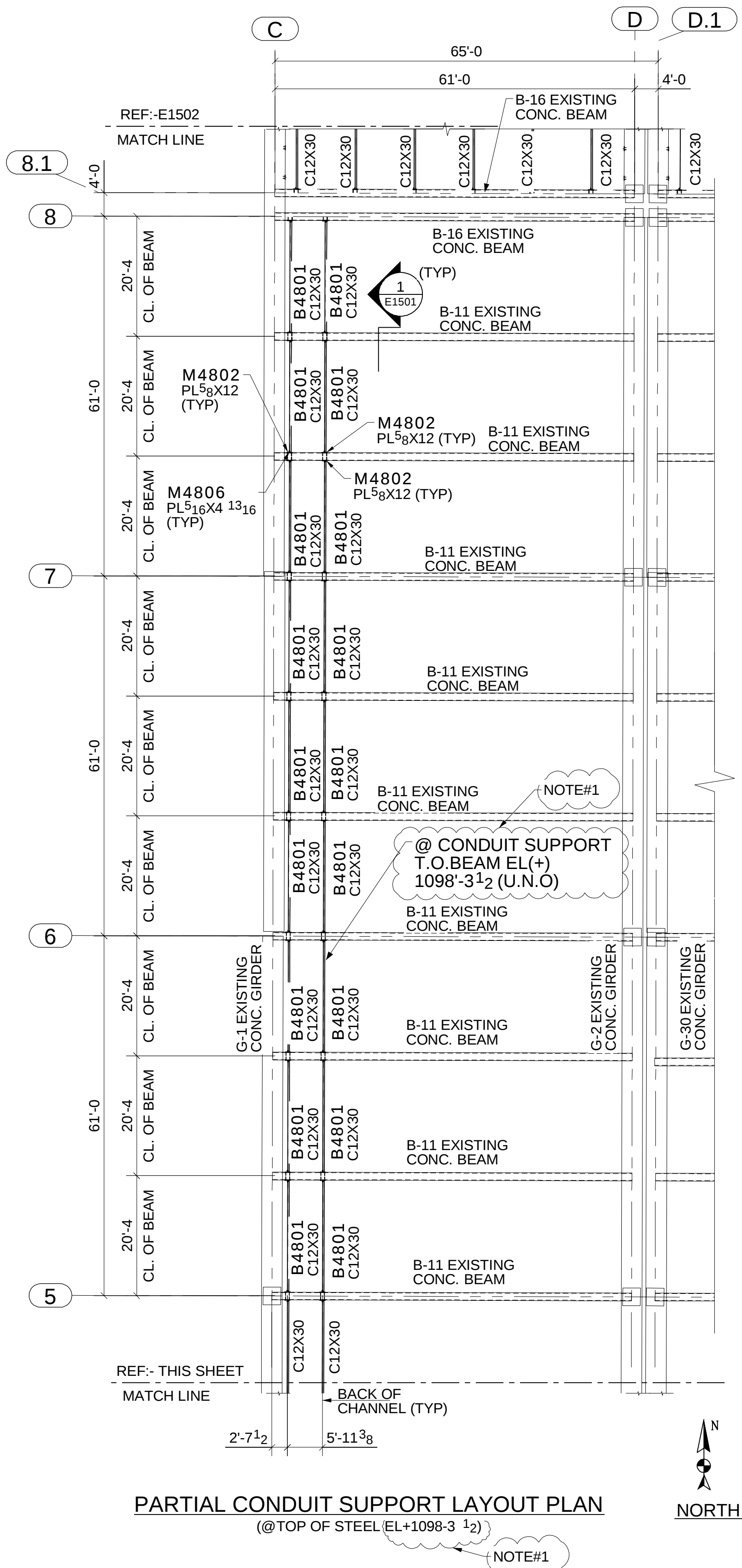


**CORBINS
ELECTRIC**
4870 S. 30th, Phoenix, AZ 85008 PH: 602.773.8900
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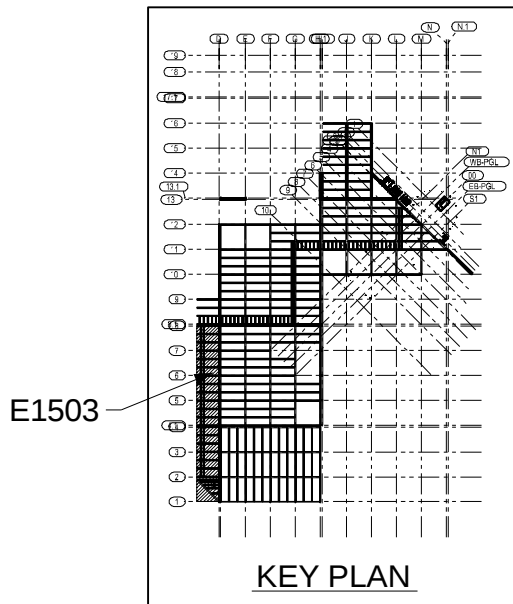
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DESIGNED BY	PAUL	AREA PORTION	
CHECKED BY	GAARY	SHEET #	E4.0
DATE	11/20/25	PROJECT	SKY TRAIN - RCC
DESIGNED BY	PAUL	AREA PORTION	
CHECKED BY	GAARY	SHEET #	E4.0

STRUCTURAL STEEL SHOP DRAWINGS

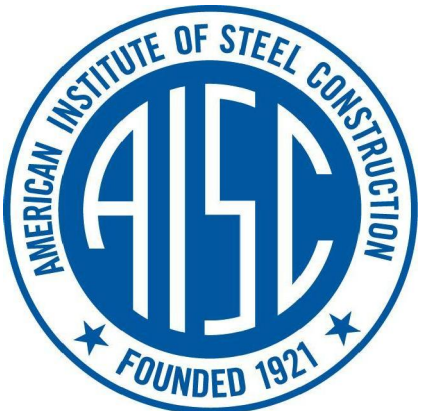
ERECTION DRAWING
FOR PILE 506



G.C. NOTE:-
NOTE#1:- GC PLEASE COORDINATE ALL DIMENSIONS
& ELEVATIONS PRIOR TO INSTALLATION.



NOTES:-
1. ALL ELEVATIONS ARE TO GIVEN FROM FINISH FLOOR ELEVATION. 0'-0.
2. T.O.B EL INDICATES TOP OF BEAM ELEVATION.
3. CL.OF.BEAM INDICATES CENTER LINE OF BEAM.



PROJECT: PHX SKY TRAIN - RCC STATION
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034
CONTRACTOR:
ARCH/ENG: GENNETT FLEMING



4150 E. Quartz Circle
Mesa, Arizona 85215
(480) 830-2253
(480) 396-8732 FAX

AZ Lic #069414 A-11
CA Lic #505830 C-51
NV Lic #31339 C-14

"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED.
ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"

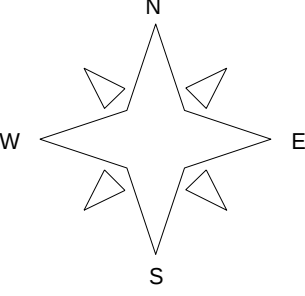
"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND
WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS

APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY
UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED
FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION
SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY.
SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED
AS CONTRACT CHANGES

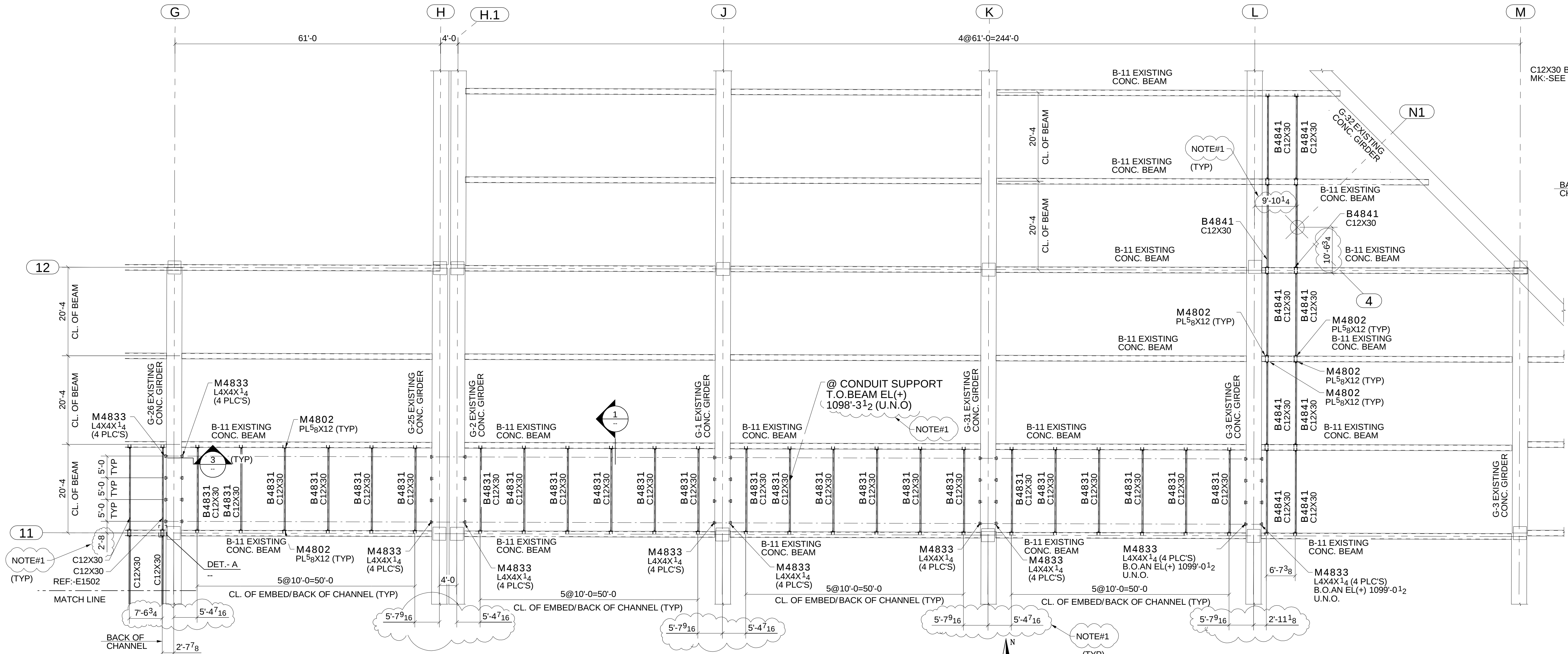
DESIGN REF. SHEET:
(REF:-1/SB2.2.7)

CONTRACTOR NOTE:

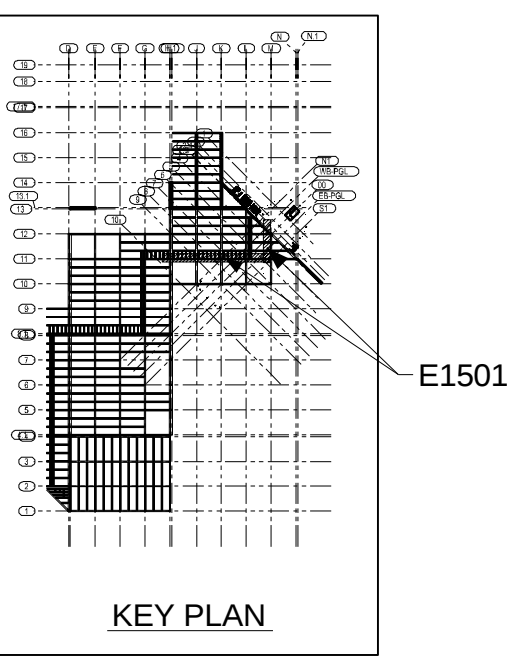
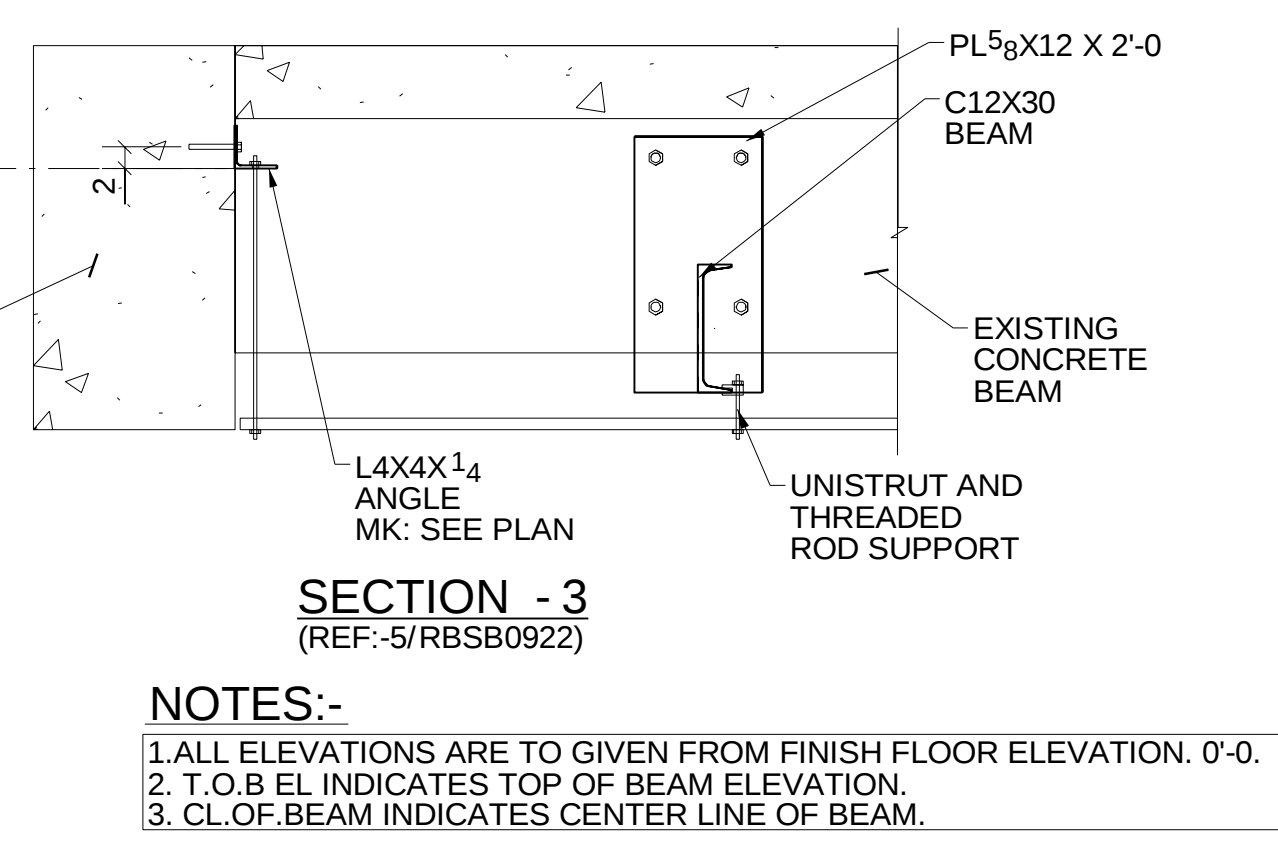
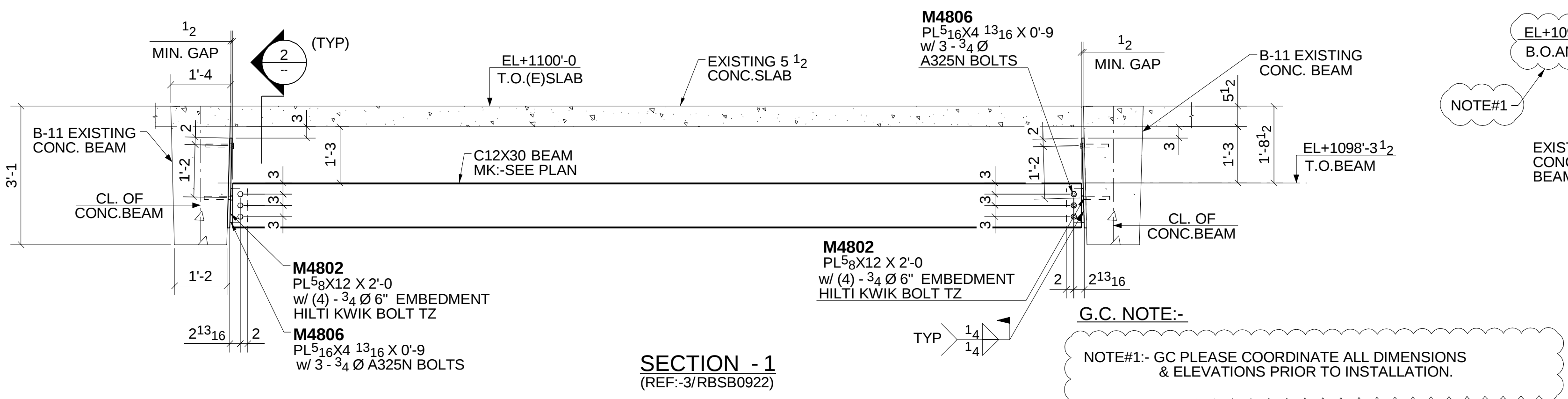
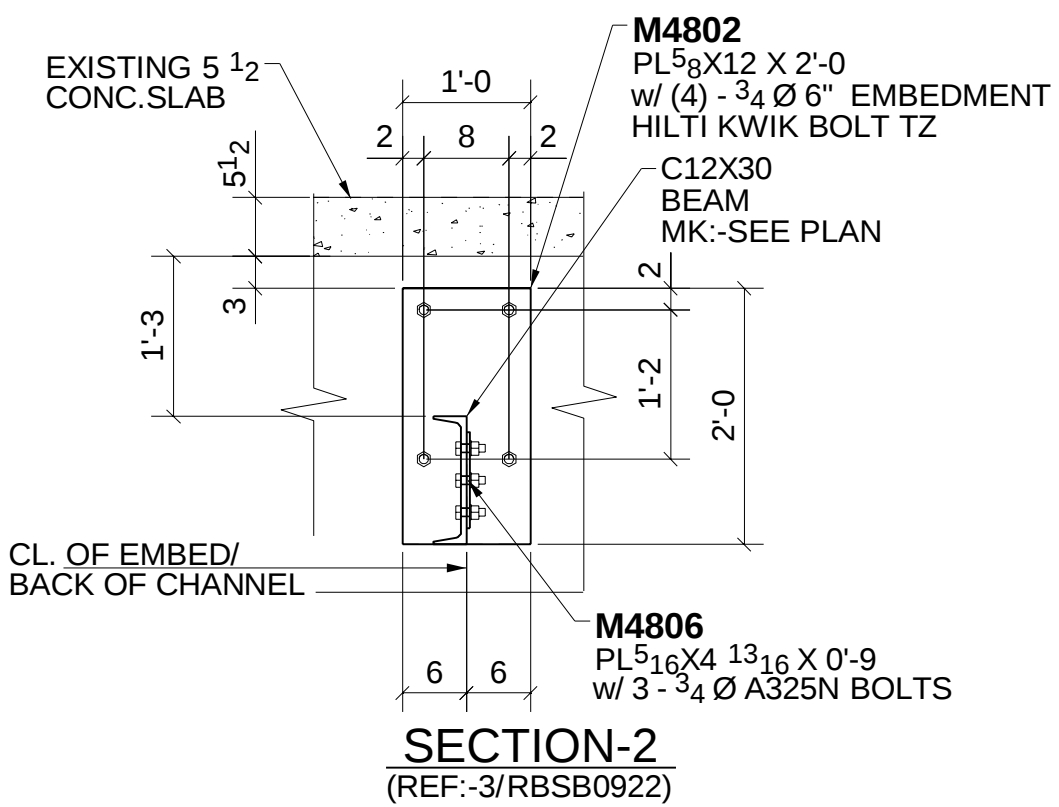
FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS
MAY RESULT IN ADDED COSTS AND/OR SCHEDULE
DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE

FOR FABRICATION					
					
DESCRIPTION CONDUIT SUPPORT					
DRAWING NO.					
0	07/24/19	For Fabrication	STT	JKS	YEAR
B	07/08/19	Revised And Resubmitted For Approval	STT	JKS	JOB
A	01/30/19	For Approval	STT	JKS	18
REV	DATE	ISSUE SCHEDULE & REVISIONS	DTL	CHKR	217
				E1503	0

ERECTION DRAWING FOR
PILE 509 & PILE 510



PARTIAL CONDUIT SUPPORT LAYOUT PLAN
(@TOP OF STEEL EL+1098-3 1/2)



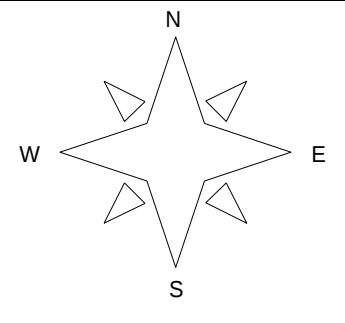
PROJECT: PHX SKY TRAIN - RCC STATION
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034
CONTRACTOR: Gennett Fleming
ARCH/ENG: Gennett Fleming
4150 E. Quartz Circle
Mesa, Arizona 85215
(480) 830-2253
(480) 396-8732 FAX
AZ Lic #069414 A-11
CA Lic #505830 C-51
NV Lic #31339 C-14

"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED. ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"
"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS
APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES

DESIGN REF. SHEET:
(REF:-1/SB2.2.4)
CONTRACTOR NOTE:
FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS MAY RESULT IN ADDED COSTS AND/OR SCHEDULE DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE

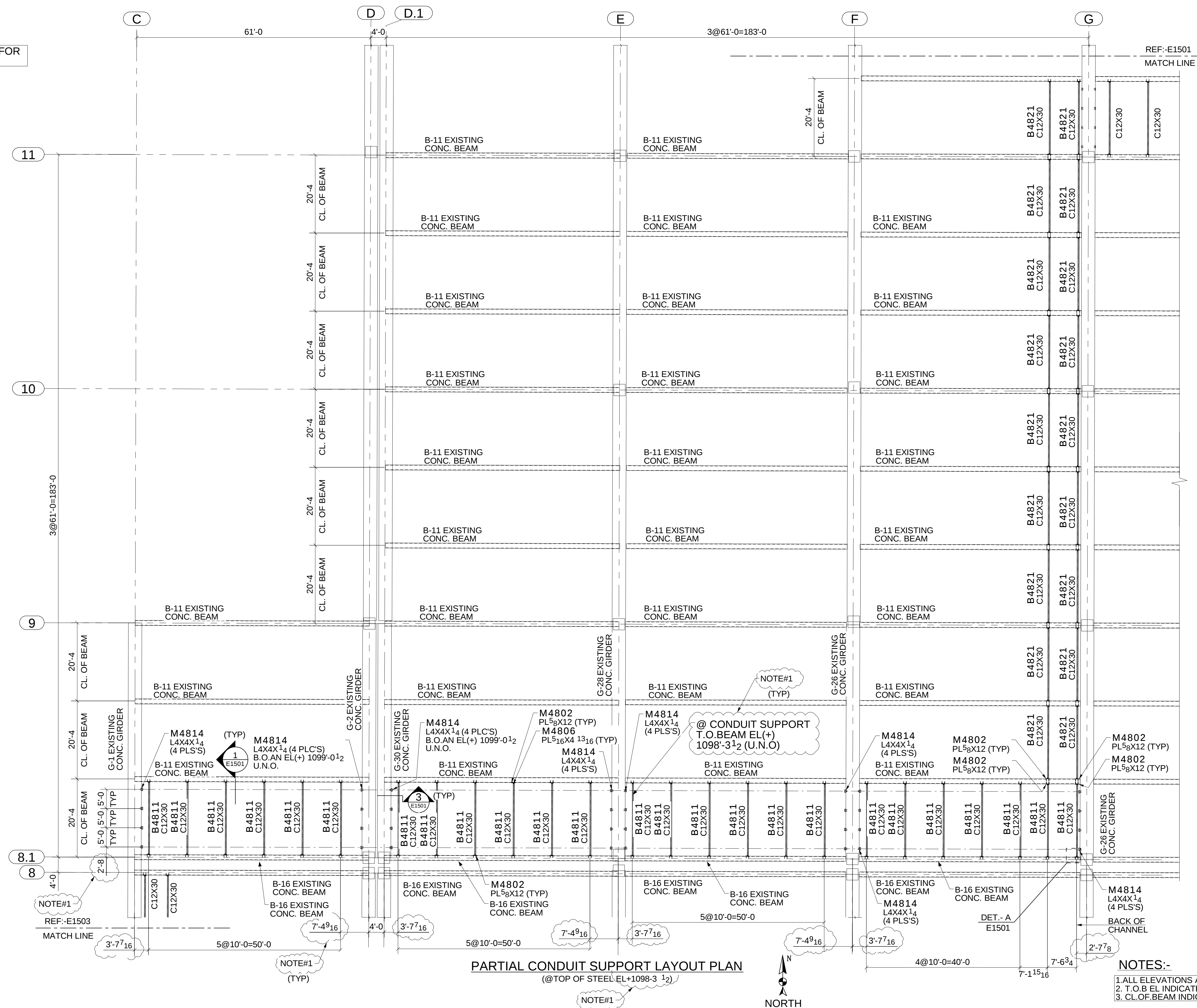
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B	07/08/19	Revised And Resubmitted For Approval	STT	JKS				
A	01/30/19	For Approval	STT	JKS				
REV	DATE	ISSUE SCHEDULE & REVISIONS	DTL	CHKR				

FOR FABRICATION



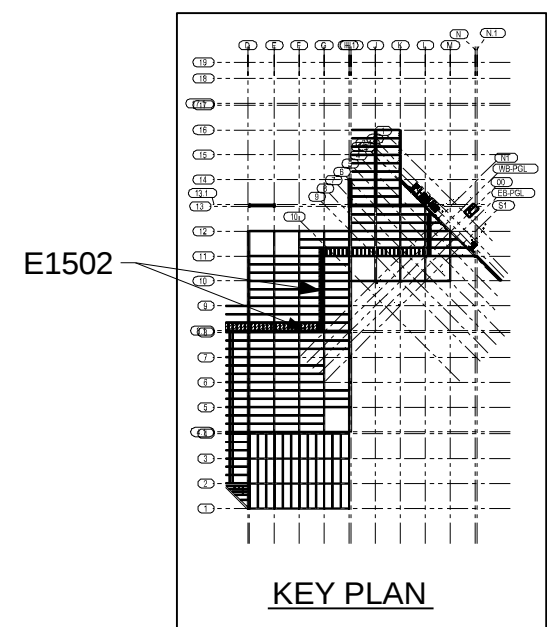
DESCRIPTION	CONDUIT SUPPORT
DRAWING NO.	
YEAR	
JOB	
SHEET	
REV.	

ERECTION DRAWING FOR
PILE 507 & PILE 508



G.C. NOTE:-

NOTE#1:- GC PLEASE COORDINATE ALL DIMENSIONS
& ELEVATIONS PRIOR TO INSTALLATION.



NOTES:-

1. ALL ELEVATIONS ARE TO GIVEN FROM FINISH FLOOR ELEVATION. 0'-0".
2. T.O.B EL INDICATES TOP OF BEAM ELEVATION.
3. CL.OF.BEAM INDICATES CENTER LINE OF BEAM.



PROJECT:	PHX SKY TRAIN - RCC STATION
LOCATION:	500 S 24TH STREET PHOENIX, AZ 85034
CONTRACTOR:	
ARCH/ENG:	GENNETT FLEMING



4150 E. Quartz Circle
Mesa, Arizona 85215
(480) 830-2253
(480) 396-8732 FAX

AZ Lic #069414 A-11
CA Lic #505830 C-51
NV Lic #31339 C-14

"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED.
ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"

"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND
WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS

APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY
UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED
FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION
SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY.
SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED
AS CONTRACT CHANGES

DESIGN REF. SHEET:

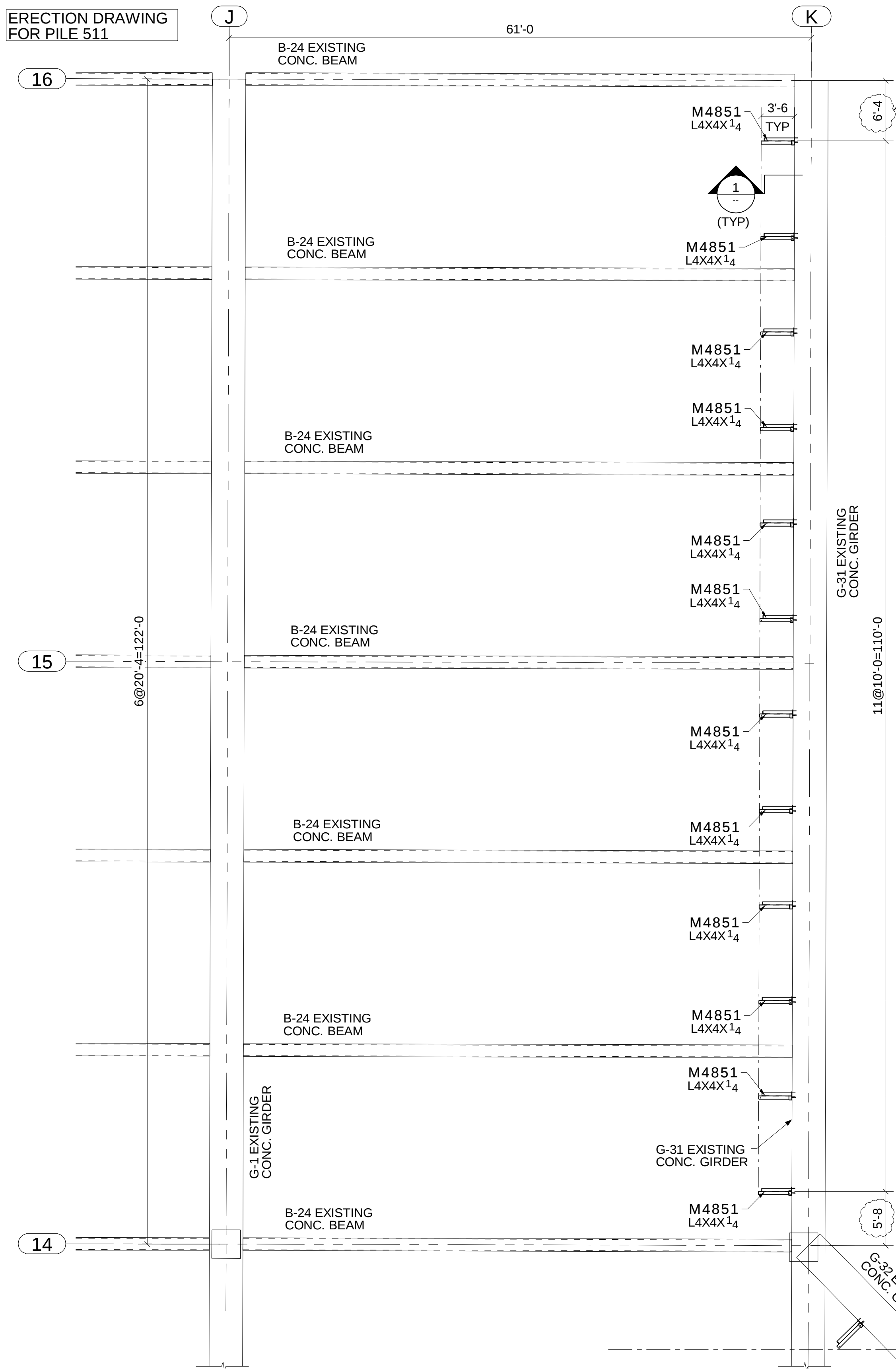
(REF:-1/SB2.2.5)

CONTRACTOR NOTE:

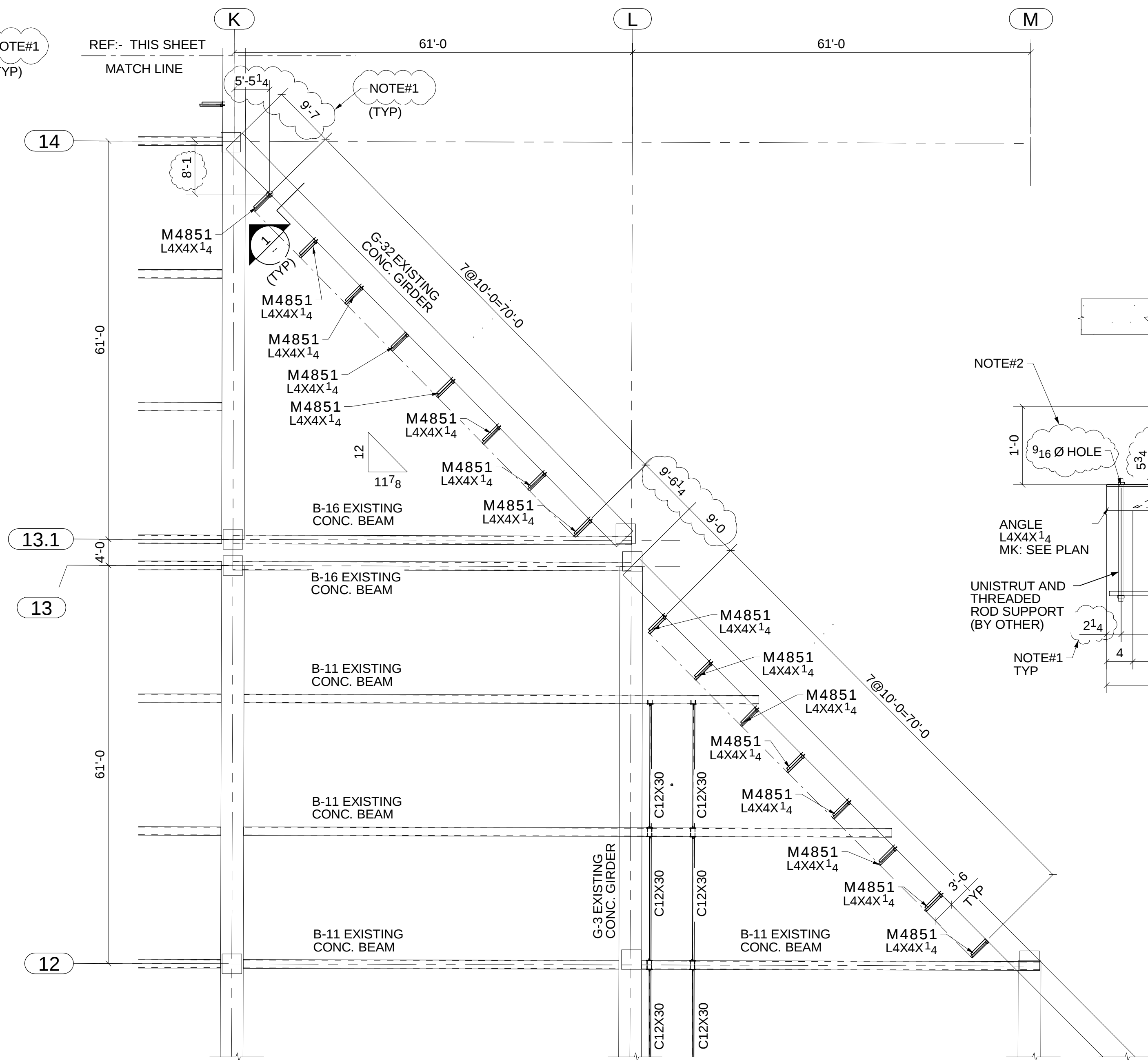
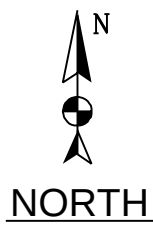
FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS
MAY RESULT IN ADDED COSTS AND/OR SCHEDULE
DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE

[illegible]

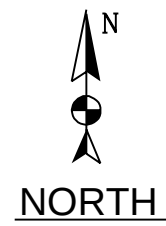
ERECTION DRAWING
FOR PILE 511



PARTIAL CONDUIT SUPPORT LAYOUT PLAN



PARTIAL CONDUIT SUPPORT LAYOUT PLAN

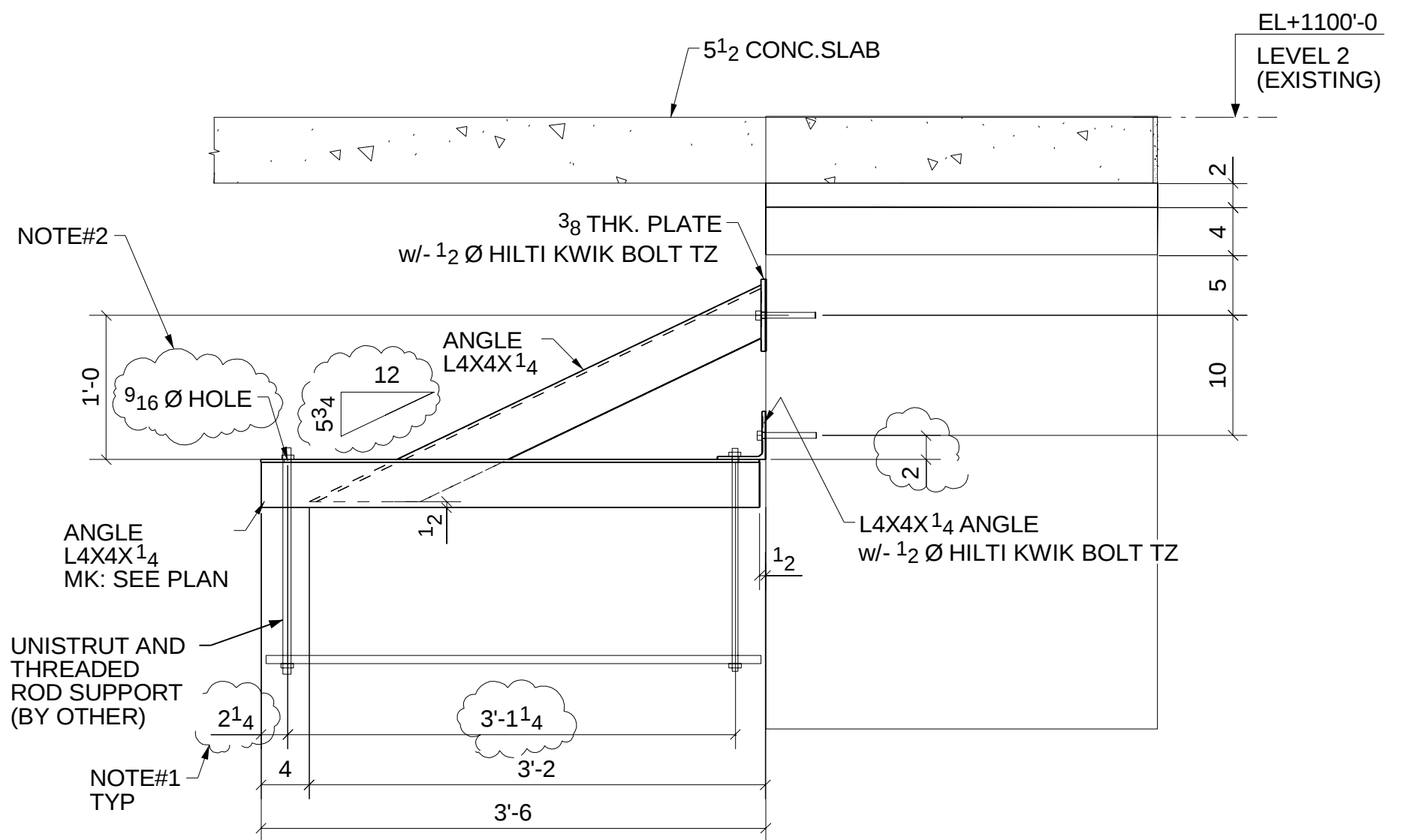


G.C. NOTE:-

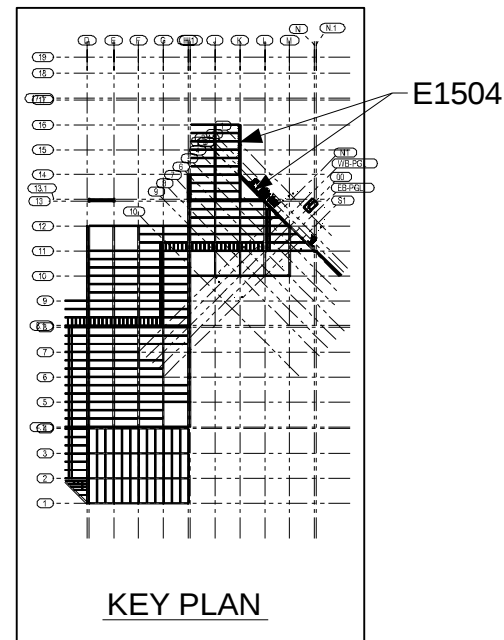
- NOTE#1:- PLEASE VERIFY ALL CLOUDED DIMENSIONS PRIOR TO INSTALLATION.
NOTE#2:- WE HAVE TAKEN 9/16" HOLE FOR THREADED ROD PLEASE VERIFY PRIOR TO INSTALLATION/ FABRICATION.

NOTES:-

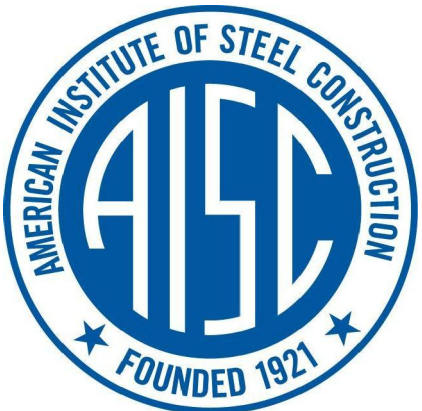
1. ALL ELEVATIONS ARE TO GIVEN FROM FINISH FLOOR ELEVATION. 0'-0".
2. T.O.B EL INDICATES TOP OF BEAM ELEVATION.
3. CL.OF.BEAM INDICATES CENTER LINE OF BEAM.



SECTION- 1
(REF:-2/RBSB0922)



KEY PLAN



PROJECT: PHX SKY TRAIN - RCC STATION
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034
CONTRACTOR:
ARCH/ENG: GENNETT FLEMING



4150 E. Quartz Circle
Mesa, Arizona 85215
(480) 830-2253
(480) 396-8732 FAX

AZ Lic #069414 A-11
CA Lic #505830 C-51
NV Lic #31339 C-14

"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED.
ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"

"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND
WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS

APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY
UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED
FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION
SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY.
SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED
AS CONTRACT CHANGES

DESIGN REF. SHEET:

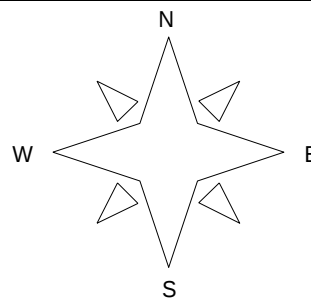
(REF:-1/SB2.2.2,1/SB2.2.3
& 1/SB2.2.4)

CONTRACTOR NOTE:

FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS
MAY RESULT IN ADDED COSTS AND/OR SCHEDULE
DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE

REV	DATE	ISSUE SCHEDULE & REVISIONS
0	07/24/19	For Fabrication
B	07/08/19	Revised And Resubmitted For Approval
A	01/30/19	For Approval

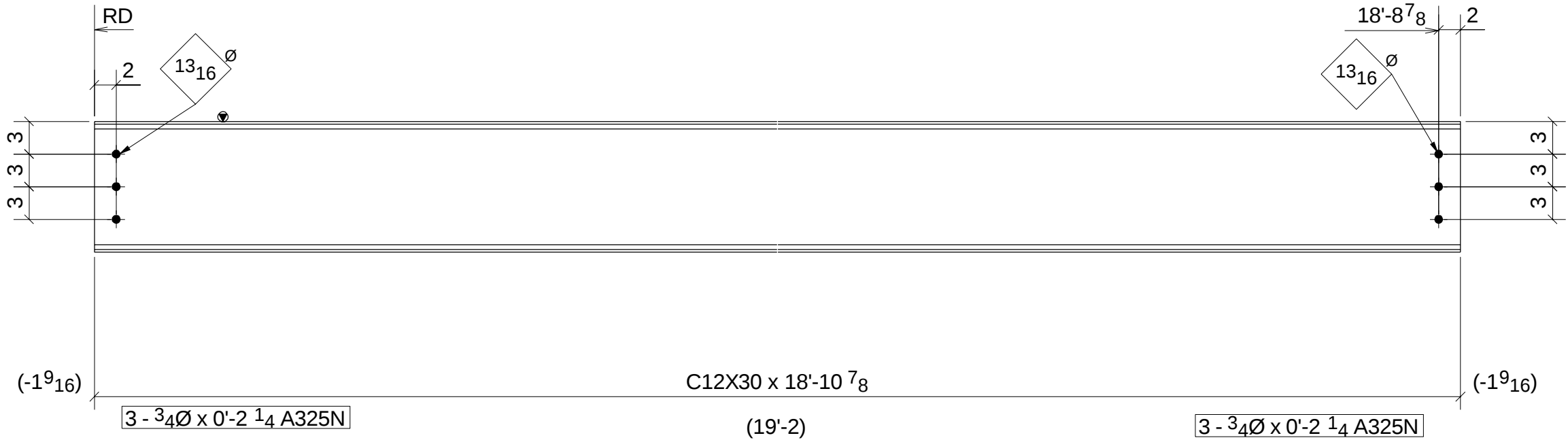
FOR FABRICATION



DESCRIPTION CONDUIT SUPPORT

STT	JKS	YEAR	JOB	SHEET	REV.
STT	JKS	18	217	E1504	0
DTL	CHKR				

BILL OF MATERIAL							
QTY. IN	PILE			MATERIAL			STEEL
PILE	NO	MARK	QTY	DESCRIPTION	LENGTH	REMARKS	GRADE
36	506	B4801	36	BEAM			
		B4801	36	C12X30	18'-10 7/8		A572-GR.50
				FIELD BOLTS			
			216	3/4 Ø A325N BOLTS	0'-2 1/4	w/N&W	
					Total weight :	540.8	

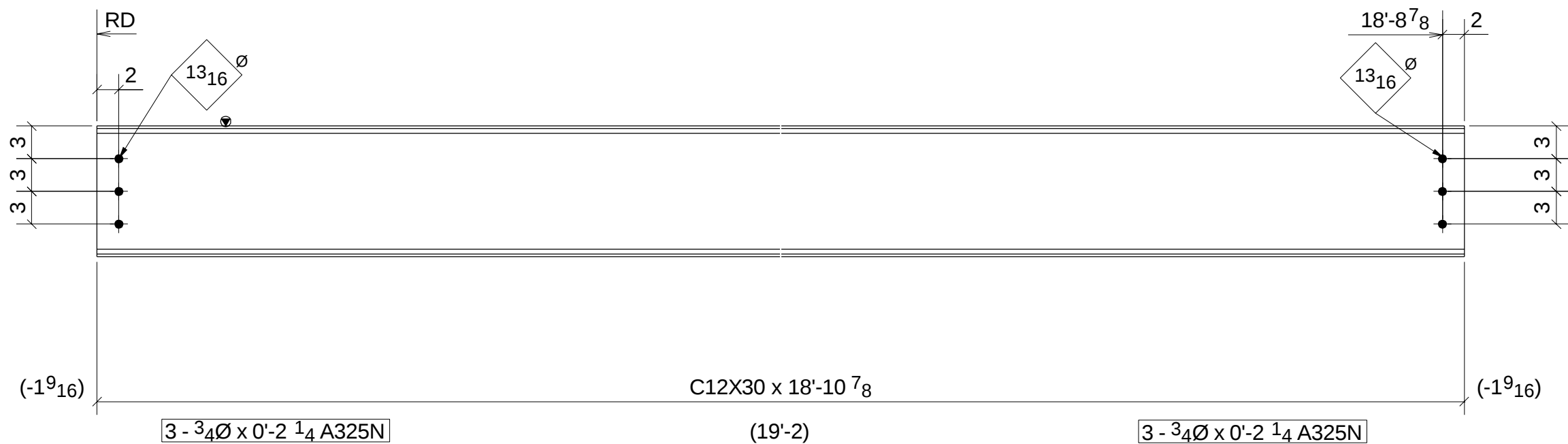


36 ~ BEAMS ~ B4801

COLUMN FACE LENGTH TOP VIEW	TOTAL WEIGHT:	540.8
	FOR FABRICATION	

PROJECT: PHX SKY TRAIN - RCC STATION		"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED. ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"	E-SHEET REFERENCE: (36 @ E1503)					Steel: A992/ASTM A36 UNO					
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034								Weld Wire: E70XX					
CONTRACTOR:		"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS	(36 @ E1503)					Steel Cleaning: SSPC-SP3					
ARCH/ENG: GENNETT FLEMING								Finish: 1 S/C PRIMER					
 4150 E. Quartz Circle Mesa, Arizona 85215 (480) 830-2253 (480) 396-8732 FAX AZ Lic #069414 A-11 CA Lic #505830 C-51 NV Lic #31339 C-14		APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES	CONTRACTOR NOTE: FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS MAY RESULT IN ADDED COSTS AND/OR SCHEDULE DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE	0	07/24/19	For Fabrication	STT	JKS	DETAILS OF :- BEAM				
				B	07/08/19	Revised And Resubmitted For Approval	STT	JKS	DRAWING NO.				
				A	01/30/19	For Approval	STT	JKS	Open Holes: 13/16 DIA				
				REV	DATE	ISSUE SCHEDULE & REVISIONS	DTL	CHKR	YEAR	JOB	SHEET	REV.	
										18	217	B4801	0

BILL OF MATERIAL							
QTY. IN	PILE			MATERIAL			STEEL
PILE	NO	MARK	QTY	DESCRIPTION	LENGTH	REMARKS	GRADE
24	509	B4831	24	BEAM			
		B4831	24	C12X30	18'-10 7/8		A572-GR.50
				FIELD BOLTS			
			144	3/4 Ø A325N BOLTS	0'-2 1/4	w/N&W	
					Total weight :	540.8	

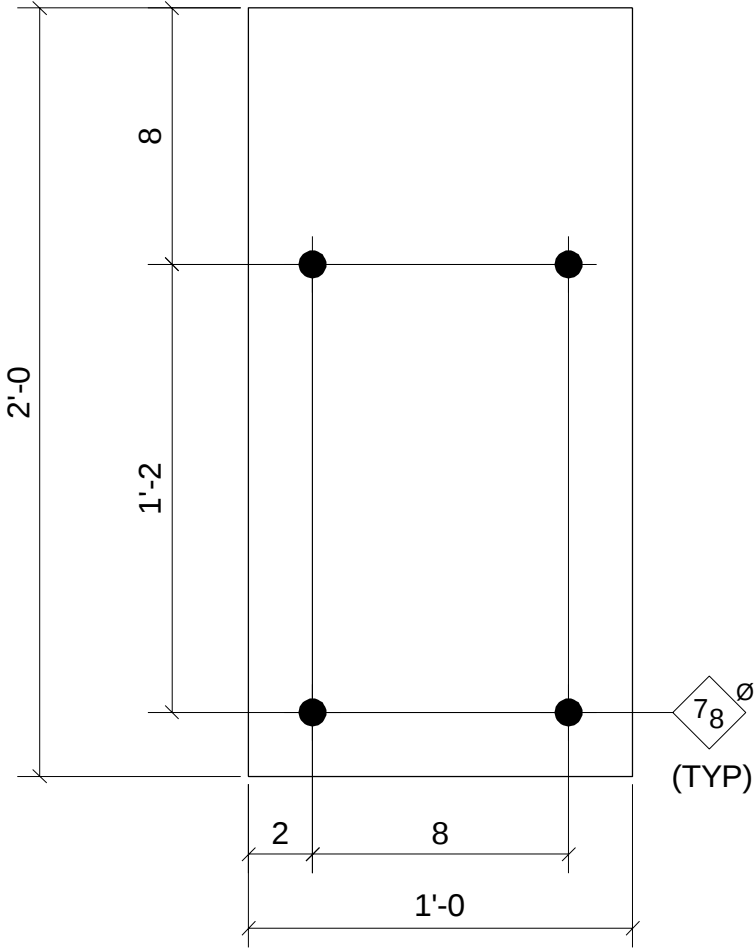


24 ~ BEAMS ~ B4831

COLUMN FACE LENGTH	TOTAL WEIGHT: 540.8
	FOR FABRICATION
TOP VIEW	

PROJECT: PHX SKY TRAIN - RCC STATION		"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED. ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"		E-SHEET REFERENCE: (24 @ E1501)								Steel: A992/ASTM A36 UNO		 DETAILS OF :- BEAM DRAWING NO. <table><tr><th>YEAR</th><th>JOB</th><th>SHEET</th><th>REV.</th></tr><tr><td>18</td><td>217</td><td>B4831</td><td>△</td></tr></table>				YEAR	JOB	SHEET	REV.	18	217	B4831	△
YEAR	JOB	SHEET	REV.																						
18	217	B4831	△																						
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034												Weld Wire: E70XX													
CONTRACTOR:		"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS										Steel Cleaning: SSPC-SP3													
ARCH/ENG: GENNETT FLEMING				CONTRACTOR NOTE:								Finish: 1 S/C PRIMER													
 4150 E. Quartz Circle Mesa, Arizona 85215 (480) 830-2253 (480) 396-8732 FAX AZ Lic #069414 A-11 CA Lic #506830 C-51 NV Lic #31339 C-14		APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES		FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS		O 07/24/19 For Fabrication		STT JKS		Open Holes: 13/16 DIA															
				MAY RESULT IN ADDED COSTS AND/OR SCHEDULE		B 07/08/19 Revised And Resubmitted For Approval		STT JKS																	
				DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE		A 01/30/19 For Approval		STT JKS																	
						REV DATE ISSUE SCHEDULE & REVISIONS		DTL CHKR																	

BILL OF MATERIAL							
QTY. IN	PILE			MATERIAL			STEEL
PILE	NO	MARK	QTY	DESCRIPTION	LENGTH	REMARKS	GRADE
72	506	M4802	226	PLATE			
50	507	M4802	226	PL5/8X12	2'-0		A572-GR.50
36	508			FIELD BOLTS			
48	509		904	3/4 Ø HILTI KWIK BOLT TZ	0'-7	w/N&W	
20	510						
					Total weight :	51.1	



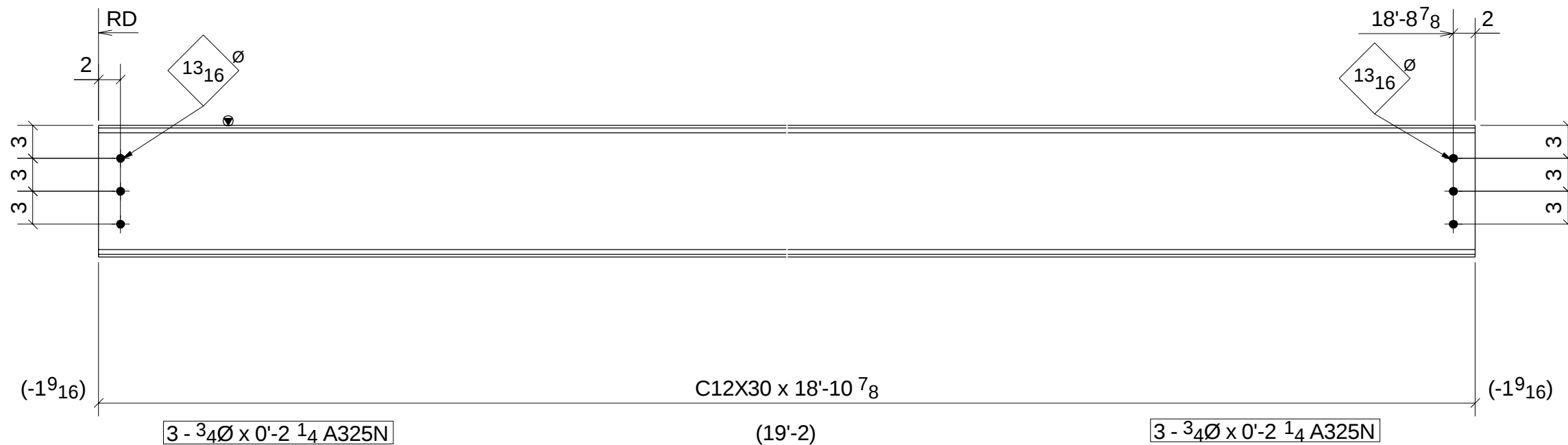
4 - 3/4Ø x 0'-7 HILTI KWIK BOLT TZ

226 ~ PLATES ~ M4802

COLUMN FACE LENGTH TOP VIEW	TOTAL WEIGHT:	51.1
	FOR FABRICATION	

PROJECT: PHX SKY TRAIN - RCC STATION												Steel: A992/ASTM A36 UNO									
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034				"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED. ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"								Weld Wire: E70XX									
CONTRACTOR:				"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS																	
ARCH/ENG: GENNETT FLEMING																Steel Cleaning: SSPC-SP3					
 4150 E. Quartz Circle Mesa, Arizona 85215 (480) 830-2253 (480) 396-8732 FAX AZ Lic #069414 A-11 CA Lic #505830 C-51 NV Lic #31339 C-14		APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES		CONTRACTOR NOTE: FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS MAY RESULT IN ADDED COSTS AND/OR SCHEDULE DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE												Finish: NO PAINT		DETAILS OF :- PLATE			
																		DRAWING NO.			
																		YEAR		JOB	
																		SHEET		REV.	
																				18	
																M4802		0			

BILL OF MATERIAL							
QTY. IN	PILE			MATERIAL			STEEL
PILE	NO	MARK	QTY	DESCRIPTION	LENGTH	REMARKS	GRADE
10	510	B4841	10	BEAM			
		B4841	10	C12X30	18'-10 7/8		A572-GR.50
				FIELD BOLTS			
			60	3/4 Ø A325N BOLTS	0'-2 1/4	w/N&W	
					Total weight :	540.8	

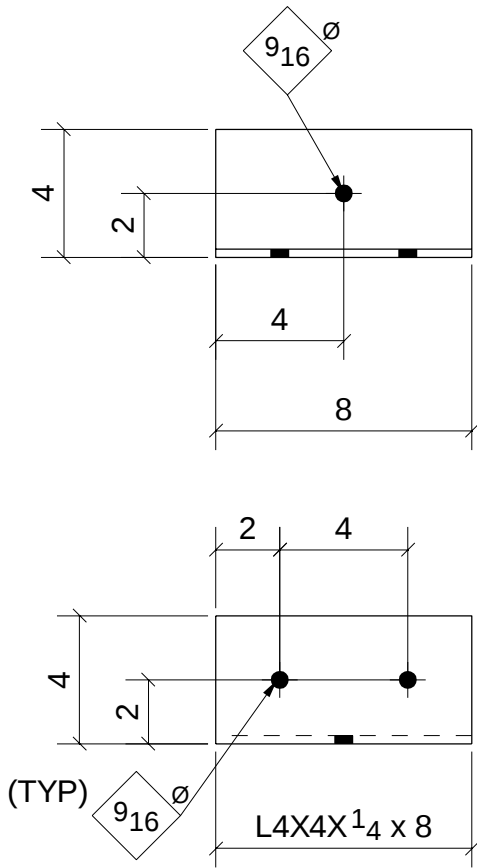


10 ~ BEAMS ~ B4841

COLUMN FACE LENGTH  TOP VIEW		TOTAL WEIGHT: 540.8		
		FOR FABRICATION		
Spec: A992/ASTM A36 UNO				
Grade: E70XX				
Paint: SSPC-SP3				
Coat: 1 S/C PRIMER		DETAILS OF :- BEAM		
		DRAWING NO.		
Size: 13/16 DIA	YEAR	JOB	SHEET	REV.
	18	217	B4841	0

[illegible]

BILL OF MATERIAL							
QTY. IN	PILE			MATERIAL			STEEL
PILE	NO	MARK	QTY	DESCRIPTION	LENGTH	REMARKS	GRADE
32	507	M4814	32	ANGLE			
		M4814	32	L4X4X1/4	0'-8		A36
				FIELD BOLTS			
			64	1/2 Ø HILTI KWIK BOLT TZ	0'-4 1/2	w/N&W	
					Total weight :	4.4	



32 ~ ANGLES ~ M4814

COLUMN FACE LENGTH TOP VIEW	TOTAL WEIGHT: 4.4	
	FOR FABRICATION	

Steel: A992/ASTM A36 UNO

Weld Wire: E70XX

Steel Cleaning: SSPC-SP3

Finish: 1 S/C PRIMER

Open Holes: 13/16 DIA

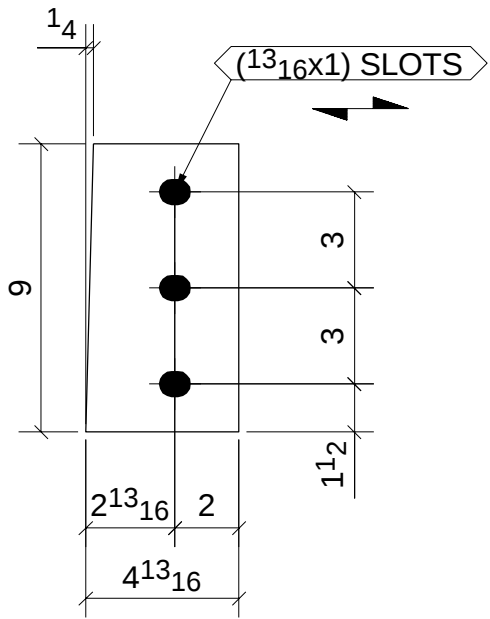
DETAILS OF :- ANGLE

DRAWING NO.

YEAR	JOB	SHEET	REV.
18	217	M4814	0

PROJECT: PHX SKY TRAIN - RCC STATION		"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED. ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"		E-SHEET REFERENCE: (32 @ E1502)								Steel: A992/ASTM A36 UNO		AMERICAN INSTITUTE OF STEEL CONSTRUCTION FOUNDED 1921									
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034																		Weld Wire: E70XX					
CONTRACTOR:		"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS		CONTRACTOR NOTE: _____								Steel Cleaning: SSPC-SP3						DETAILS OF :- ANGLE					
ARCH/ENG: GENNETT FLEMING												Finish: 1 S/C PRIMER						DRAWING NO.					
ABLE STEEL FABRICATORS, INC. 4150 E. Quartz Circle Mesa, Arizona 85215 (480) 830-2253 (480) 396-8732 FAX AZ Lic #069414 A-11 CA Lic #505830 C-51 NV Lic #31339 C-14		APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES		FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS MAY RESULT IN ADDED COSTS AND/OR SCHEDULE DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE		0		07/24/19		For Fabrication		STT		JKS		YEAR		JOB		SHEET		REV.	
						A		07/08/19		For Approval		STT		JKS		18		217		M4814		0	
						REV		DATE		ISSUE SCHEDULE & REVISIONS		DTL		CHKR									

BILL OF MATERIAL							
QTY. IN	PILE			MATERIAL			STEEL
PILE	NO	MARK	QTY	DESCRIPTION	LENGTH	REMARKS	GRADE
72	506	M4806	226	PLATE			
50	507	M4806	226	PL5/16X4 13/16	0'-9		A572-GR.50
36	508						
48	509				Total weight :	3.7	
20	510						

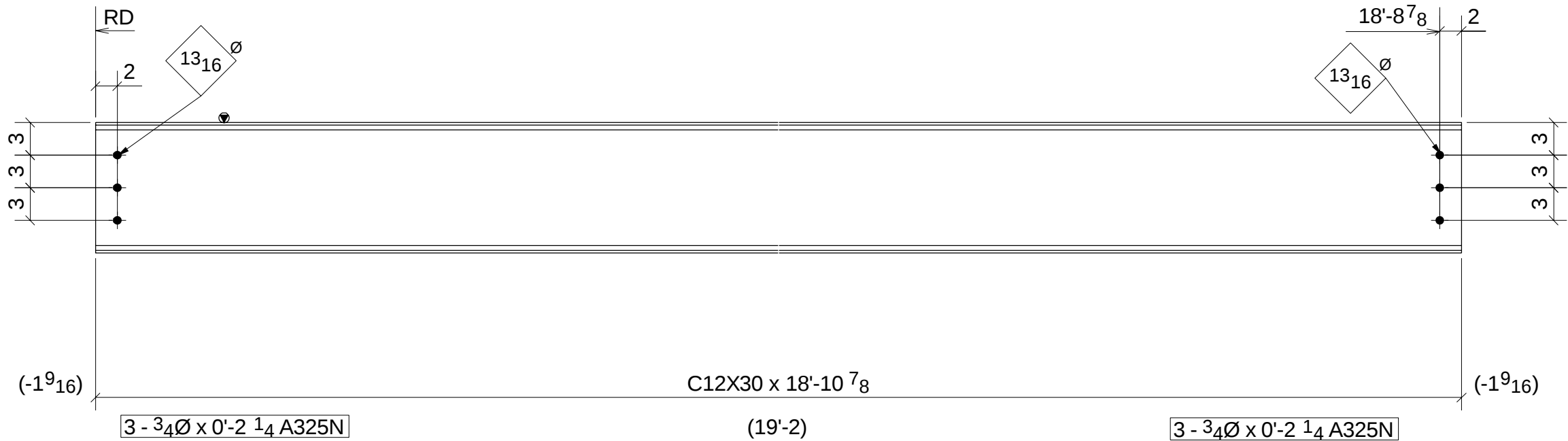


226 ~ PLATES ~ M4806

COLUMN FACE LENGTH TOP VIEW	TOTAL WEIGHT:	3.7
	FOR FABRICATION	

PROJECT: PHX SKY TRAIN - RCC STATION		"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED. ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"	E-SHEET REFERENCE: (68@E1501, 86@E1502, 72@E1503)							Steel: A992/ASTM A36 UNO							
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034													Weld Wire: E70XX				
CONTRACTOR:		"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS	CONTRACTOR NOTE: FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS MAY RESULT IN ADDED COSTS AND/OR SCHEDULE DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE								Steel Cleaning: SSPC-SP3						
ARCH/ENG: GENNETT FLEMING													Finish: NO PAINT				
 4150 E. Quartz Circle Mesa, Arizona 85215 (480) 830-2253 (480) 396-8732 FAX AZ Lic #069414 A-11 CA Lic #505830 C-51 NV Lic #31339 C-14	APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES									Open Holes: 13/16 DIA	DETAILS OF :- PLATE						
													DRAWING NO.				
														YEAR	JOB	SHEET	REV.
														18	217	M4806	0
						0	07/24/19	For Fabrication		STT	JKS						
				A	07/08/19	For Approval		STT	JKS								
				REV	DATE	ISSUE SCHEDULE & REVISIONS		DTL	CHKR								

BILL OF MATERIAL							
QTY. IN	PILE			MATERIAL			STEEL
PILE	NO	MARK	QTY	DESCRIPTION	LENGTH	REMARKS	GRADE
25	507	B4811	25	BEAM			
		B4811	25	C12X30	18'-10 7/8		A572-GR.50
				FIELD BOLTS			
			150	3/4 Ø A325N BOLTS	0'-2 1/4	w/N&W	
					Total weight :	540.8	

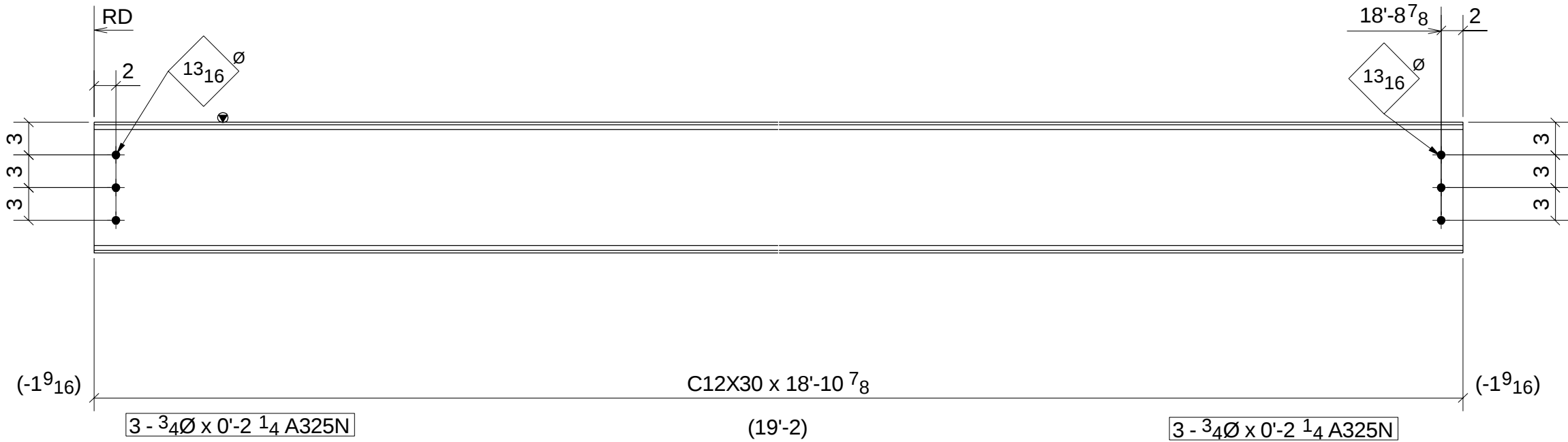


25 ~ BEAMS ~ B4811

COLUMN FACE LENGTH TOP VIEW	TOTAL WEIGHT:	540.8
	FOR FABRICATION	

PROJECT: PHX SKY TRAIN - RCC STATION		"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED. ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"	E-SHEET REFERENCE: (25 @ E1502)							Steel: A992/ASTM A36 UNO						
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034													Weld Wire: E70XX			
CONTRACTOR:													Steel Cleaning: SSPC-SP3			
ARCH/ENG: GENNETT FLEMING													Finish: 1 S/C PRIMER			
 4150 E. Quartz Circle Mesa, Arizona 85215 (480) 830-2253 (480) 396-8732 FAX AZ Lic #069414 A-11 CA Lic #505830 C-51 NV Lic #31339 C-14		"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS	APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES	CONTRACTOR NOTE: FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS MAY RESULT IN ADDED COSTS AND/OR SCHEDULE DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE							DETAILS OF :- BEAM					
													DRAWING NO.			
													YEAR	JOB	SHEET	REV.
													18	217	B4811	0
					0	07/24/19	For Fabrication		STT	JKS						
					B	07/08/19	Revised And Resubmitted For Approval		STT	JKS						
					A	01/30/19	For Approval		STT	JKS						
					REV	DATE	ISSUE SCHEDULE & REVISIONS		DTL	CHKR						

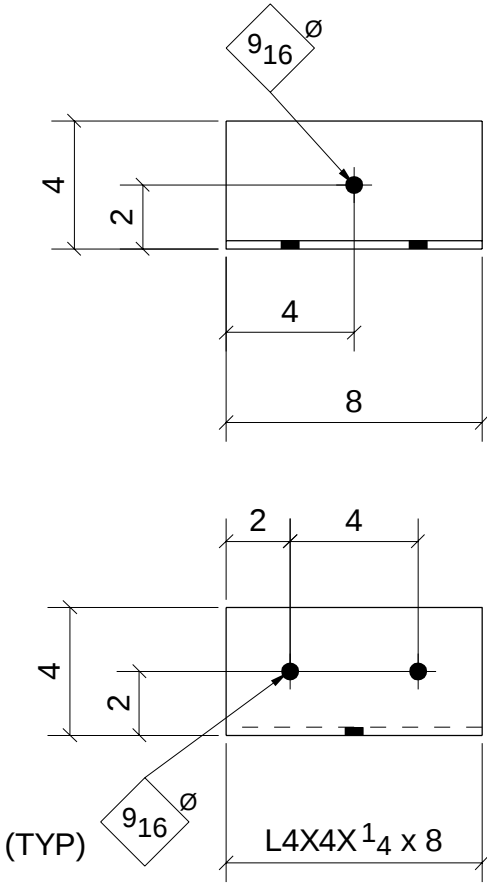
BILL OF MATERIAL							
QTY. IN	PILE			MATERIAL			STEEL
PILE	NO	MARK	QTY	DESCRIPTION	LENGTH	REMARKS	GRADE
18	508	B4821	18	BEAM			
		B4821	18	C12X30	18'-10 7/8		A572-GR.50
				FIELD BOLTS			
			108	3/4 Ø A325N BOLTS	0'-2 1/4	w/N&W	
					Total weight :	540.8	



COLUMN FACE LENGTH TOP VIEW	TOTAL WEIGHT:	540.8
	FOR FABRICATION	

PROJECT: PHX SKY TRAIN - RCC STATION		"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED. ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"	E-SHEET REFERENCE: (18 @ E1502)							Steel: A992/ASTM A36 UNO					
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034													Weld Wire: E70XX		
CONTRACTOR:													Steel Cleaning: SSPC-SP3		
ARCH/ENG: GENNETT FLEMING													Finish: 1 S/C PRIMER		
 4150 E. Quartz Circle Mesa, Arizona 85215 (480) 830-2253 (480) 396-8732 FAX AZ Lic #069414 A-11 CA Lic #505830 C-51 NV Lic #31339 C-14		"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS	APPROVAL / REVIEW AUTHORITY: PLEASE REVIEW THIS DRAWING CAREFULLY UNLESS NOTED TO THE CONTRARY, ON THIS DRAWING, WHEN IT IS RETURNED FROM APPROVAL TO ABLE STEEL IT WILL BE ASSUMED THAT ALL INFORMATION SHOWN, HAS THE AFFIRMATION OF THE APPROVAL / REVIEW AUTHORITY. SUBSEQUENT CHANGES AFTER THE FIRST SUBMISSION WILL BE CONSIDERED AS CONTRACT CHANGES	CONTRACTOR NOTE:								DETAILS OF :- BEAM			
				FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS MAY RESULT IN ADDED COSTS AND/OR SCHEDULE DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE								DRAWING NO.			
												YEAR	JOB	SHEET	REV.
												18	217	B4821	0
				0	07/24/19	For Fabrication			STT	JKS					
				B	07/08/19	Revised And Resubmitted For Approval			STT	JKS					
				A	01/30/19	For Approval			STT	JKS					
				REV	DATE	ISSUE SCHEDULE & REVISIONS			DTL	CHKR					

BILL OF MATERIAL							
QTY. IN	PILE			MATERIAL			STEEL
PILE	NO	MARK	QTY	DESCRIPTION	LENGTH	REMARKS	GRADE
40	509	M4833	40	ANGLE			
		M4833	40	L4X4X1/4	0'-8		A36
				FIELD BOLTS			
			80	1/2 Ø HILTI KWIK BOLT TZ	0'-4 1/2	w/N&W	
					Total weight :	4.4	



40 ~ ANGLES ~ M4833

COLUMN FACE LENGTH TOP VIEW	TOTAL WEIGHT: 4.4	
	FOR FABRICATION	

Steel: A992/ASTM A36 UNO

Weld Wire: E70XX

Steel Cleaning: SSPC-SP3

Finish: 1 S/C PRIMER

Open Holes: 13/16 DIA

DETAILS OF :- ANGLE

DRAWING NO.

YEAR	JOB	SHEET	REV.
18	217	M4833	0

PROJECT: PHX SKY TRAIN - RCC STATION	"NOTE TO FABRICATOR": MARK PIECE AT LEFT END AS DETAILED. ALL HOLES NOTED "A" ARE FOR H.S. BOLTS. DEBUT & NO PAINT WITHIN 3"	E-SHEET REFERENCE: (40 @ E1501)								Steel: A992/ASTM A36 UNO						
LOCATION: 500 S 24TH STREET PHOENIX, AZ 85034												Weld Wire: E70XX				
CONTRACTOR:												Steel Cleaning: SSPC-SP3				
ARCH/ENG: GENNETT FLEMING												Finish: 1 S/C PRIMER				
												Open Holes: 13/16 DIA				
 4150 E. Quartz Circle Mesa, Arizona 85215 (480) 830-2253 (480) 396-8732 FAX AZ Lic #069414 A-11 CA Lic #505830 C-51 NV Lic #31339 C-14	"NOTE TO ERECTOR": PLACE MARKED END OF PIECE TO CORRESPOND WITH LOCATION OF PIECE MARK ON STRUCTURAL ERECTION DRAWINGS	CONTRACTOR NOTE: _____ FAILURE TO RESPOND TO VERIFIES & CLOUDED AREAS MAY RESULT IN ADDED COSTS AND/OR SCHEDULE DELAYS FOR WHICH ASF WILL NOT BE RESPONSIBLE								DETAILS OF :- ANGLE						
												DRAWING NO.				
													YEAR	JOB	SHEET	REV.
													18	217	M4833	0
			0	07/24/19	For Fabrication			STT	JKS							
			A	07/08/19	For Approval			STT	JKS							
			REV	DATE	ISSUE SCHEDULE & REVISIONS			DTL	CHKR							