

ADDENDUM 2

December 17, 2024

To All Bidders:

This Addendum is to add preliminary installation drawings to the bid set. These drawings are **not final**. The bid opening date has changed from 12/20/24 to **12/23/24 at NOON**.

You must indicate receipt of Addendum 1, submitted with your proposal.

The Bidder hereby acknowledges that they have reviewed the following addenda:

Addendum No: 2 _____

Date: _____

Submitted by:

Name/Title

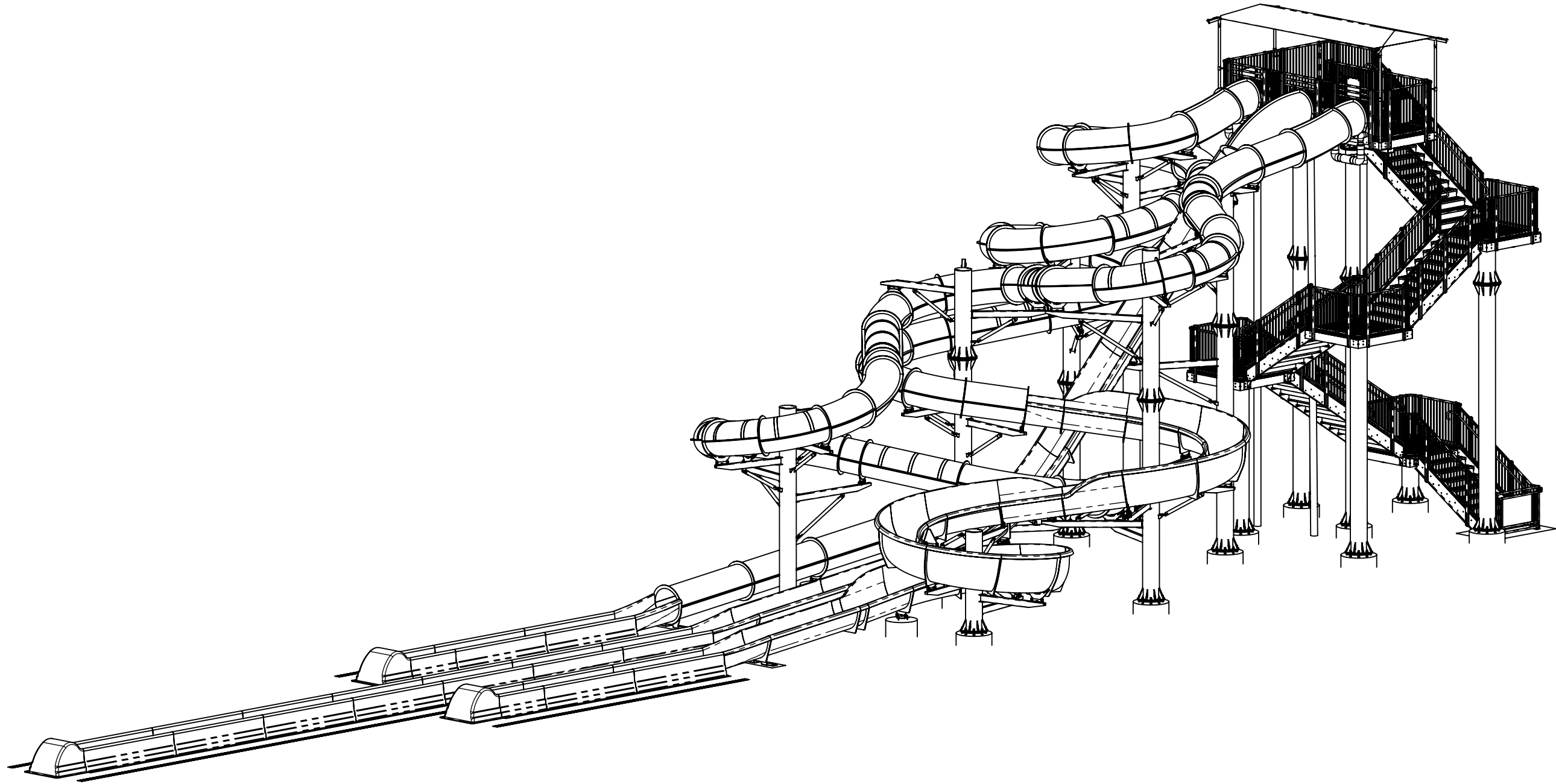
Company

END OF ADDENDUM 2



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City of Mentor

Seal / Sceau

Project Location / Lieu du Projet
 Mentor, OH

Project Number / Numero de Projet
 42612

Order Number / Numero d'Ordre

DATE	Revision Description	No.	By/Par

Drawing Title / Titre du Dessin

SITE VIEW

Drawn by/Dessine par JWH	Verified by/Verifie par
Scale/Echelle N/A	Date 12-11-2024
Page# WS-01	Rev. R00

SPECIFICATIONS FOR CONSTRUCTION

1 GENERAL NOTES

1.1 THESE DESIGN DOCUMENTS WERE PREPARED BY 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL'S BEST JUDGMENT IN LIGHT OF THE INFORMATION AVAILABLE AT THE TIME OF PREPARATION. FOR THE PURPOSE OF THESE DESIGN DOCUMENTS, 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' IS SYNONYMOUS WITH 'VORTEX'.

1.2 VORTEX ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS MADE OR ACTIONS BASED ON THESE DESIGN DOCUMENTS WITHOUT THE PREVIOUS CONSULTATION TO VORTEX.

1.3 ALL WORK, MATERIALS AND THEIR ASSEMBLIES SHALL CONFORM TO THE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE FOR ALL TRADES, AISC, ACNOR, EN, OR IBC.

1.4 THESE DESIGN DOCUMENTS DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. WHEN APPLICABLE, THE CONTRACTORS SHALL SUPERVISE AND DIRECT ALL THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES AND SEQUENCES AS PER STANDARD BEST PRACTICES.

1.5 DO NOT SCALE DRAWINGS.

1.6 USE ONLY THOSE MARKED "ISSUED FOR CONSTRUCTION".

1.7 THE CONTRACTOR SHALL REVIEW THESE DESIGN DOCUMENTS AND REPORT ANY CONFLICTS OR OMISSIONS TO THE VORTEX IMMEDIATELY.

1.8 TEMPORARY SUPPORTS, WHICH WILL BE REQUIRED DURING CONSTRUCTION, SUCH AS FORMWORK, BRACING, SHORING, ETC. ARE NOT SHOWN ON THESE DRAWINGS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SAFE CONSTRUCTION PROCEDURES ARE FOLLOWED.

1.9 THE FOLLOWING SPECIFICATIONS ARE VORTEX'S MINIMUM RECOMMENDATIONS TO OBTAIN A QUALITY PRODUCT. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE RESTRICTIVE.

2 EXCAVATION

2.1 ANY SHORING OR TEMPORARY SHORING NOT SHOWN ON DRAWINGS WILL BE EXECUTED, IN A SAFE MANNER, BY THE GENERAL CONTRACTOR.

2.2 IT IS THE RESPONSIBILITY OF OTHERS TO VERIFY THE EXISTENCE OF ANY UNDERGROUND SERVICES ETC.

2.3 IF AVAILABLE, REFER TO SOIL REPORT FOR BACKFILL REQUIREMENTS. ALL BACKFILL (FOR SLAB ON GRADE, ETC.) MUST BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED PROFESSIONAL. USE ONLY FREE DRAINING, GRANULAR, MINERAL, INERT AND NON- REACTIVE FILL.

3 FOUNDATIONS

3.1 REFER TO SOIL REPORT FOR RECOMMENDATIONS.

3.2 ALL FOOTINGS SHALL REST ON A HOMOGENEOUS LAYER OF UNDISTURBED SOIL OR ENGINEERED BACKFILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPA (2000 PSF) AND MAXIMUM DIFFERENTIAL SETTLEMENT OF 19 MM (0.75"). ALL ORGANIC MATERIAL SHALL BE REMOVED.

3.3 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE SOIL AT ALL FOOTING LOCATIONS BE VERIFIED BY A QUALIFIED SOILS EXPERT BEFORE POURING FOOTINGS TO ENSURE FOOTINGS REST ON APPROPRIATE STRATA.

3.4 WHEN APPLICABLE, FOLLOW GEOTECHNICAL EXPERT RECOMMENDATIONS FOR ALL EXTERIOR FOOTINGS TO ENSURE FROST PROTECTION.

4 CONCRETE

4.1 ALL CONCRETE MATERIALS, PROCEDURES, TOLERANCES & WORKMANSHIP SHALL CONFORM TO THE LATEST ISSUES OF ACI-318 OR ACNOR CAN3-A23.1 & A23.2, DEPENDING ON PROJECT LOCATION.

4.2 CONCRETE THAT HAS BEEN IN THE TRUCKS LONGER THAN 2 HOURS SHALL BE REJECTED. DO NOT ADD WATER TO THE CONCRETE IN THE TRUCKS OR ON THE SITE UNDER ANY CIRCUMSTANCES.

4.3 USE MAXIMUM 76 MM (3") SLUMP, 19 MM (3/4") AGGREGATE, UNLESS OTHERWISE-NOTED. USE 5-7% AIR ENTRAINMENT FOR CONCRETE EXPOSED TO WEATHER ONLY.

4.4 ALL GROUT SHALL BE NON-SHRINK TYPE WITH A MINIMUM 28 DAYS STRENGTH OF 35.0 MPA (5000 PSI). USE BETWEEN 25 MM (1") TO 50 MM (2") GROUT UNDER ALL STEEL COLUMN BASE PLATES. (REFER TO THE CONSTRUCTION DOCUMENTS).

4.5 CONCRETE STRENGTH @ 28 DAYS TO BE:
4.5.1 FOUNDATIONS (FOOTINGS): 25.0 MPA (3625 PSI), UNLESS OTHERWISE NOTED.
4.5.2 INTERIOR SLAB ON GRADE: 25.0 MPA (3625 PSI), UNLESS OTHERWISE NOTED.
4.5.3 EXTERIOR SLAB ON GRADE: 32.0 MPA (4640 PSI), UNLESS OTHERWISE NOTED.

4.6 MINIMAL RE-BAR COVER:
4.6.1 CONCRETE POURED ON-GRADE = 76MM (3") COVER
4.6.2 CONCRETE POURED INTO FORMWORK BUT EXPOSED TO SOIL AND WEATHER FOR REBAR 15M (#4) AND UNDER = 50MM (2") COVER

5 REINFORCING STEEL

5.1 DEPENDING ON PROJECT LOCATION, ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 (BARS 15M (#4) TO BE GRADE 60 WITH SUPPLEMENTARY REQUIREMENTS ON S1. BARS SMALLER THAN 15M (#4), TO BE GRADE 40); OR TO ACNOR GRADE G30.12 [FY = 400MPA (60,000 PSI), UNLESS OTHERWISE NOTED].

5.2 USE CONCRETE, PLASTIC OR STEEL SUPPORT BARS, AS PER ACI (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES). THE RE-BAR PLACER MUST REMAIN ON-SITE DURING POURS TO VERIFY CORRECT POSITIONING OF RE-BARS. SLANT UPPER REINFORCING STEEL IN LINE WITH THE SLOPE OF THE SLAB, IF APPLICABLE.

5.3 BARS SHALL BE SECURELY WIRED PER LATEST EDITION OF CRSI (RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS).

5.4 ALL REINFORCING STEEL IS TO BE KEPT CLEAN AND FREE OF MUD, SNOW, ICE, AND ANY CONTAMINANTS.

5.5 VERTICAL AND CONTINUOUS REBAR SHALL BE LAPPED TO DEVELOP FULL TENSILE CAPACITY OF THE BAR. FOR 15M (#4) BARS MINIMUM LAP OF 610 MM (24").

6 EXTERIOR / INTERIOR SLAB ON GRADE

6.1 FOLLOW THE GEOTECHNICAL EXPERT RECOMMENDATIONS FOR PREPARATION OF SOIL BEFORE POURING THE CONCRETE. ALL GRANULAR MATERIAL SHALL BE MOISTENED IMMEDIATELY BEFORE POURING THE CONCRETE. WATER AS NEEDED. DO NOT USE A VAPOR BARRIER.

6.2 NO TRUCKS ARE PERMITTED ON THE CONSTRUCTION SITE (OF THE SLAB) AFTER THE FINAL COMPACTION, EITHER BEFORE OR DURING, THE POUR.

6.3 SLAB TO BE MINIMUM 6 INCHES THICK, REINFORCED WITH #4 @ 457MM (18") C/C REBAR PLACED IN BOTH DIRECTIONS AT MID-HEIGHT OF THE SLAB, UNLESS OTHERWISE NOTED ON PLANS.

6.4 REFER TO CONCRETE SECTION FOR MINIMUM COMPRESSIVE STRENGTH AND AIR-ENTRAINMENT REQUIREMENTS.

6.5 FINISHING WILL BE MEDIUM BROOM.

6.6 CONTROL JOINTS (SAW-CUTS) TO BE LOCATED IN EACH DIRECTION, AT REGULAR INTERVALS, WITH A MAXIMUM DISTANCE OF 3 METERS (10 FEET). SHALL BE MINIMUM 3 MM (1/8") WIDE AND SHALL PENETRATE THE SLAB TO A MINIMUM DEPTH OF 1/3 OF THE THICKNESS OF THE SLAB. CONTROL JOINTS SHOULD BE DONE AS SOON AS POSSIBLE WITHOUT DAMAGING THE CONCRETE,BUT NO LATER THAN 18 HOURS AFTER POURING.

6.7 WHEN POSSIBLE AND TO AVOID SHRINKAGE CRACKING, HUMIDITY SHALL BE MAINTAINED FOR 7 DAYS DURING THE CURING PERIOD OF THE SLAB. WATER AND USE POLYETHYLENE CLOTH OR BAG. THE CONCRETE MUST DRY UNIFORMLY.

7 CONCRETE WORK IN COLD OR HOT WEATHER (MINIMUM REQUIREMENTS)

7.1 COLD WEATHER REQUIREMENTS APPLY WHEN THE MEAN AIR IS LESS THAN 5 DEGREES CELSIUS (40 DEGREES FAHRENHEIT).

7.2 GENERAL REQUIREMENTS FOR COLD WEATHER CONCRETE WORK SHALL BE AS PER ACI 306R-88; OR AS PER THE NBC'S LATEST REQUIREMENTS INCLUDING THE LATEST ISSUE OF CSA STANDARD CAN3-A23.1.

7.3 ALL SNOW AND ICE SHALL BE REMOVED FROM FORMS AND REBAR WITH STEAM AND COMPRESSED AIR BEFORE POURING. DO NOT USE DE-ICING SALT (CALCIUM CHLORIDE) OR ANY OTHER SALTS UNDER ANY CIRCUMSTANCES.

7.4 CONCRETE SHALL HAVE A MINIMUM TEMPERATURE OF 20 DEGREES CELSIUS (68 DEGREES FAHRENHEIT) AND A MAXIMUM TEMPERATURE OF 25 DEGREES CELSIUS (77 DEGREES FAHRENHEIT) WHILE POURING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS ARE SATISFIED. ANY CONCRETE THAT DOES NOT CONFORM MUST BE REJECTED.

7.5 THE SURFACE OF POURED CONCRETE SHALL BE PROTECTED BY MEANS OF SUITABLE COVERINGS AND INSULATION (TO BE DETERMINED BY TEMPERATURE) DURING THE CURING PROCESS.

7.6 GENERAL REQUIREMENTS FOR HOT WEATHER CONCRETE WORK SHALL BE AS PER ACI 305R-99; OR AS PER LOCAL CODE REQUIREMENTS.

8 BONDING

8.1 USE MINIMUM #8 AWG BARE COPPER BONDING SOLID WIRE BETWEEN COLUMN TO A GROUNDING ROD IN THE SOIL, TIED INTO REBAR GRID, OR AS PER LOCAL CODE.

9 LOADING INFO

9.1 DESIGN SPECIFICATIONS:
ACI 318, AISC 360, ASCE 7-16, ASTM 2376
GOV.BLDG.CODE: IBC 2019

SEISMIC DESIGN FACTORS:
Ss =0.000g SDs =0.000g
S1 =0.000g SD1 =0.000g
Site Class = D SDC = B

SNOW Load:
Pg = 00 psf

TOWER LOADS:
Dead = 15 psf (0.72 kPa)
Live = 100 psf (4.79 kPa)

WATERSLIDE LOADS:
Dead = 20 plf
Water = 6.75 plf @ 450 gpm [1704 lpm]
Rider = 300 lb [136 kg] (moving)

WIND LOADS:
Max. Operational Wind Vel. = 34 mph [15 m/s]
Design Wind Vel. = 00 mph (3-second gust)
Risk Cat. II, Exp. B



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City of Mentor

Seal / Sceau

Project Location / Lieu du Projet
Mentor,OH

Project Number / Numero de Projet
42612

Order Number / Numero d'Ordre

Table with 3 columns: DATE, Revision Description, No. By/Par

GENERAL NOTES

Table with 2 columns: Drawn by/Dessine par, Verified by/Verifie par

SPECIAL INSPECTIONS, TESTING & STRUCTURAL OBSERVATION

1. QUALITY CONTROL FOR STEEL CONSTRUCTION: STEEL FABRICATOR SHALL ESTABLISH AND MAINTAIN QUALITY CONTROL PROCEDURES AND PERFORM INSPECTIONS TO ENSURE THAT THEIR WORK IS PERFORMED IN ACCORDANCE WITH AISC OR EQUIVALENT SPECIFICATIONS AND THE CONSTRUCTION DOCUMENTS.
2. SPECIAL INSPECTIONS ARE NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION. ALTERNATIVELY, SPECIAL INSPECTION OF MATERIALS, WELDING, AND FABRICATION PROCEDURES SHALL BE REQUIRED.
3. NO FIELD WELDING SHALL BE PERMITTED.
4. THE FOLLOWING SPECIAL INSPECTIONS (WHERE APPLICABLE) SHALL BE REQUIRED PER CHAPTER 17 OF THE BUILDING CODE.
 - SPECIAL INSPECTION OF HIGH-STRENGTH BOLTING (WHEN APPLICABLE)
 - PERIODIC SPECIAL INSPECTION IF BOLTS ARE PRETENSIONED WITH MATCH-MARKING TECHNIQUES
 - CONTINUOUS SPECIAL INSPECTION OF ALL OTHER HIGH-STRENGTH BOLTING
 - PERIODIC SPECIAL INSPECTION OF PLACEMENT OF REINFORCING STEEL
 - CONTINUOUS SPECIAL INSPECTION OF ANCHOR BOLTS PRIOR TO AND DURING CONCRETE PLACEMENT
 - CONTINUOUS SPECIAL INSPECTION OF CONCRETE PLACEMENT
 - CONTINUOUS SPECIAL INSPECTION OF GROUT PLACEMENT
 - SAMPLING & TESTING OF CONCRETE PER CHAPTER 17 OF THE BUILDING CODE TO VERIFY STRENGTH AND SLUMP
5. SPECIAL INSPECTION IS NOT REQUIRED FOR WORK OF A MINOR NATURE OR AS WARRANTED BY CONDITIONS IN THE JURISDICTION AS APPROVED BY THE BUILDING OFFICIAL. THUS, SPECIAL INSPECTION ITEMS ABOVE MAY BE WAIVED AS DEEMED APPROPRIATE BY THE BUILDING OFFICIAL.
6. NO STRUCTURAL OBSERVATION IS REQUIRED.

STRUCTURAL STEEL

1. ALL RECTANGULAR TUBES SHALL CONFORM TO ASTM A500; FY=46ksi
2. ALL ROUND TUBES SHALL CONFORM TO ASTM A513 TYPE 5; FY=60ksi U.N.O.
3. ALL OTHER STRUCTURAL STEEL, SHAPES AND PLATES SHALL CONFORM TO ASTM A36, U.N.O. (16" COLUMN SPEC'D AS A500 GR B).
4. ALL BOLTS FOR STEEL-TO-STEEL CONNECTIONS SHALL CONFORM TO ASTM 3125 GRADE 325 SPECIFICATIONS, U.N.O. A325N AND 325X ALLOWED.
5. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE SPECIFICATIONS AND PROCEDURES OF THE AMERICAN WELDING SOCIETY (AWS) BY CERTIFIED WELDERS PER AWS D1.1. ALL WELDING SHALL BE PERFORMED IN A SHOP APPROVED BY THE BUILDING OFFICIAL. STEEL WELDS SHALL BE PERFORMED WITH MINIMUM E70XX LOW-HYDROGEN ELECTRODE EXCEPT WHERE HIGHER STRENGTH ELECTRODE IS REQUIRED BY AWS D1.1.
6. ALL STEEL SURFACES SHALL BE GALVANIZED IN ACCORDANCE w/ ASTM A123 OR SHALL OR SHALL BE THOROUGHLY COATED WITH ZINC-RICH PAINT.
7. ALL STEEL HARDWARE SHALL BE GALVANIZED IN ACCORDANCE w/ ASTM F2329.
8. ALL STRUCTURAL BOLTS SHALL BE TIGHTENED PER AN APPROVED PRETENSIONING METHOD AS DEFINED BY AISC. FOR EASE OF INSPECTION, THE "TURN-OF-NUT" METHOD AS DEFINED BY AISC WITH MATCH-MARKING TECHNIQUES IS RECOMMENDED.
9. ALL BOLT HOLES SHALL BE STANDARD SIZE PER TABLE J3.3 OF AISC U.N.O. WASHERS ARE REQUIRED FOR ANY CONNECTION THAT HAS LARGER THAN STANDARD SIZED BOLT HOLES.
10. ALL NUTS SHALL BE HEAVY HEX ASTM A563 GR. C OR DH OR EQUIVALENT.
11. ALL WASHERS SHALL BE ASTM F436 OR EQUIVALENT.

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DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
GENERAL NOTES

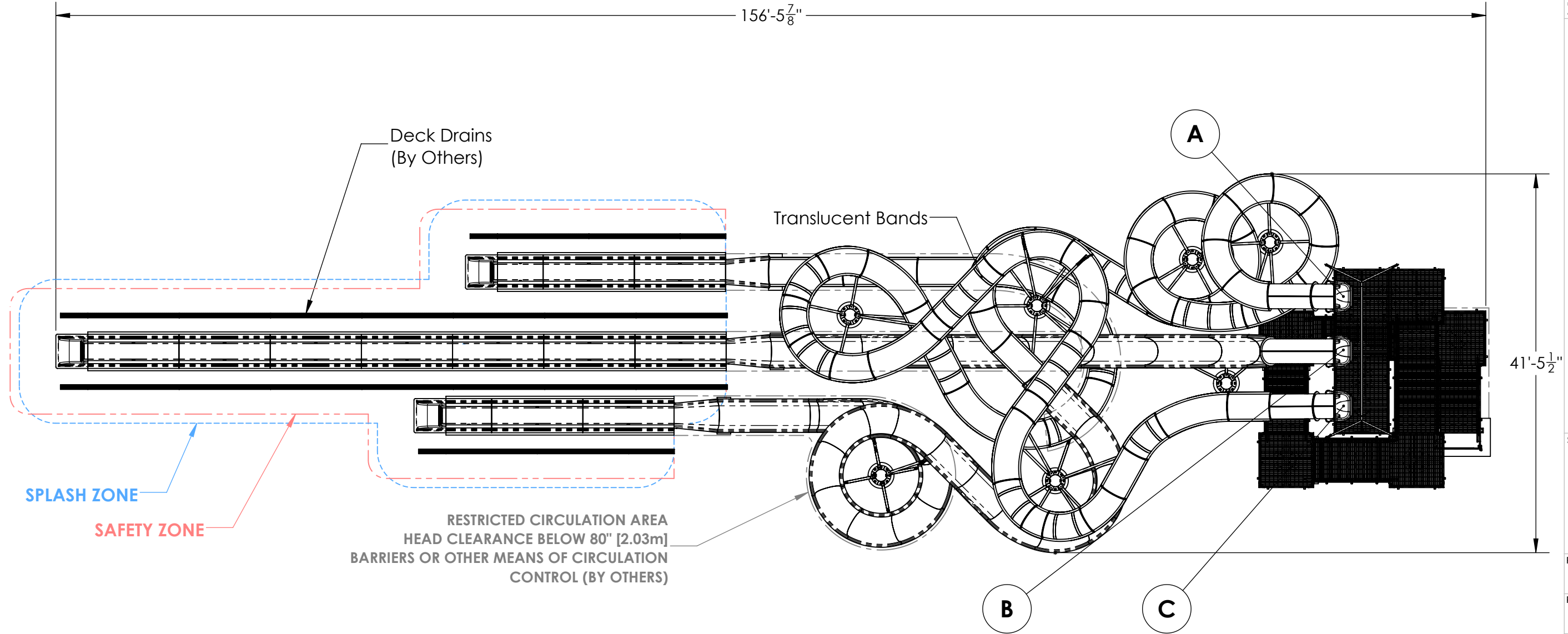
Drawn by/Dessine par JWH	Verified by/Verifie par
Scale/Echelle N/A	Date 12-11-2024
Page# WS-02B	Rev. R00

- * Slide height is from finished pool deck to finished tower platform.
- * Deck drains run parallel to runoff.
- * Vault Design NOT by Vortex.
- * Speed Slide Minimum User Height: 48" [1.22m]
- * All other waterslides Minimum User Height: 42" [1.07m]

Slide	Slide Type	Height	Length	Flow Rate
A	Closed to Open Flume PrecisionRide™ Body Slide	33'-3"	254'-6"	300 GPM
B	Closed to Open Flume PrecisionRide™ Speed Slide	33'-3"	194'-4"	300 GPM
C	Closed Flume PrecisionRide™ Body Slide	33'-3"	236'-10"	300 GPM

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City of Mentor

SPLASH ZONE

SAFETY ZONE

RESTRICTED CIRCULATION AREA
 HEAD CLEARANCE BELOW 80" [2.03m]
 BARRIERS OR OTHER MEANS OF CIRCULATION CONTROL (BY OTHERS)

IMPORTANT
 Client to provide Vortex with CAD and/or "As Built" drawings to establish the pool deck slope. If this is impossible, client will need to provide site dimensions that identify various depths at the tower-slide structure location.

Failure to provide this information will cause delays in completing the submittal documents, fabrications drawings and may delay product delivery. Inaccurate information may cause additional site work at client's expense.

This drawing set was made using CAD file: NONE PROVIDED

Seal / Sceau

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 Mentor, OH

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DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
SITE LAYOUT

Drawn by/Dessine par
 JWH

Scale/Echelle
 1:140

Page#
 WS-03

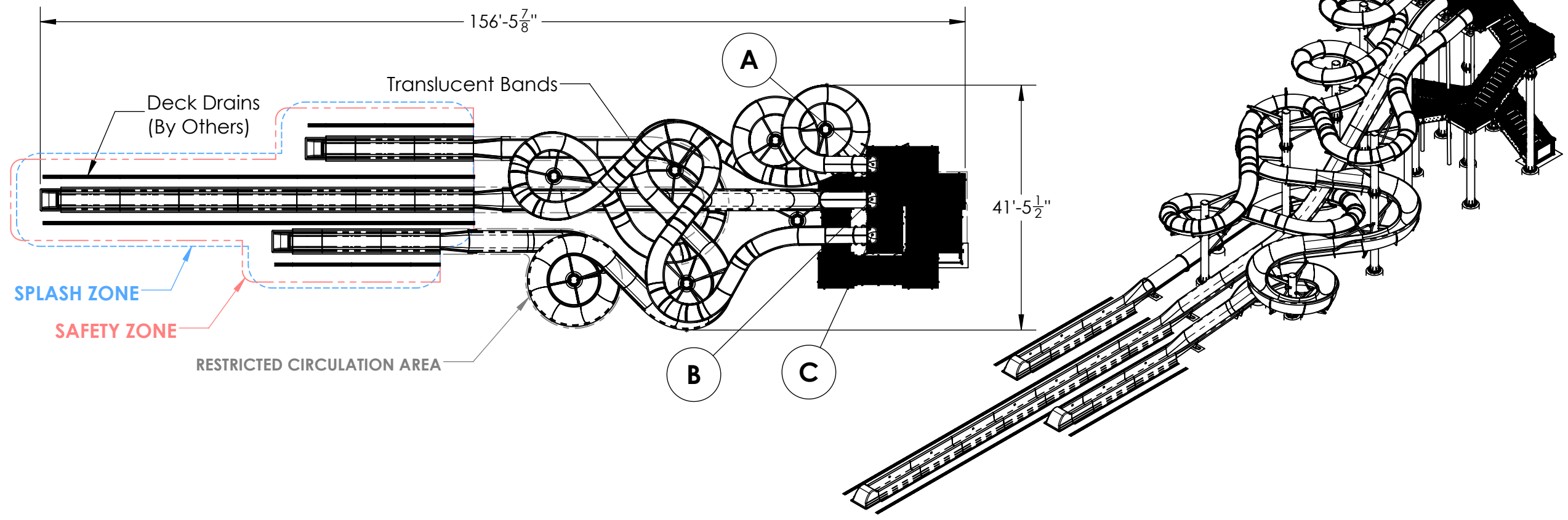
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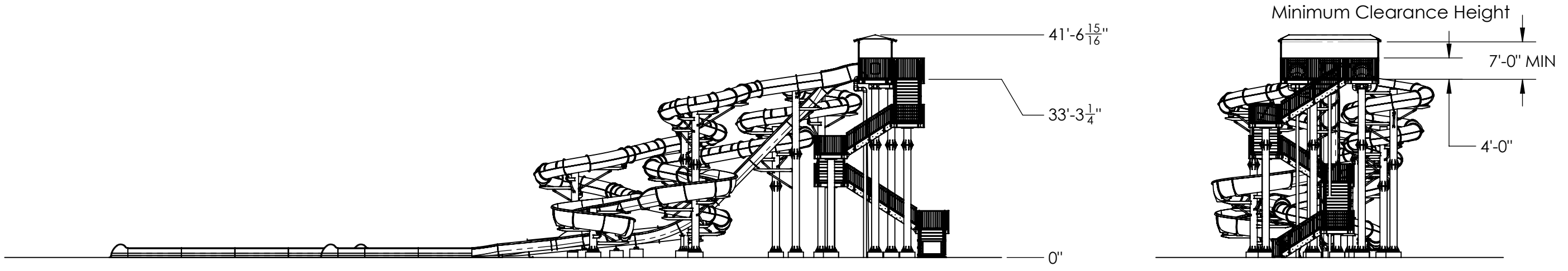
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DATE	Revision Description	No. By/Par

SLIDE ELEVATIONS

Drawn by/Dessine par JWH	Verified by/Verifie par
Scale/Echelle 1:240	Date 12-11-2024
Page# WS-04	Rev. R00



FOOTING SCHEDULE



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COLUMN MARK	DIMENSION A X B X THICKNESS	FOOTING REINFORCING	(F.B.E.) ELEVATION	PEDESTAL DIAMETER	PEDESTAL REINFORCEMENT	T.O.C. ELEVATION	ANCHOR BOLT	ANCHOR EMBED DEPTH (MIN)	NOTE
SBE	4'-2" X 7'-0" X 8"	#5 @ 12" OC E.W. MID-DEPTH	-8.00"	N/A	N/A	+0.00"	(12) 1/2" Ø	3 5/8"	4,8
T1	6'-0" X 6'-0" X 18"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
T2	6'-0" X 6'-0" X 18"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5,11
T3	6'-0" X 6'-0" X 18"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
T4	7'-0" X 7'-0" X 18"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
T5	8'-0" X 8'-0" X 20"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
T6	8'-0" X 8'-0" X 20"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
S1	8'-0" X 8'-0" X 20"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
S2	8'-0" X 8'-0" X 20"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
S3	7'-0" X 7'-0" X 18"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5,11
S4	7'-0" X 7'-0" X 18"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
S5	8'-0" X 8'-0" X 20"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
S6	7'-0" X 7'-0" X 18"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
S7	7'-0" X 7'-0" X 18"	#6 @ 12", TYP FOR S & T NODES	-72.00"	34"	(8) #7 TYP. FOR S & T NODES	+12.00"	(8) 1" Ø	18"	5
P1	30" DIA PIER	N/A	-48.00"	30"	(6) #7 VERTICAL	+14.88"	(4) 1" Ø	8"	6
P2	30" DIA PIER	N/A	-48.00"	30"	(6) #7 VERTICAL	+15.44"	(3) 1/2" Ø	4"	7
P3	30" DIA PIER	N/A	-48.00"	30"	(6) #7 VERTICAL	+18.81"	(3) 1/2" Ø	4"	7
P4	30" DIA PIER	N/A	-48.00"	30"	(6) #7 VERTICAL	+16.75"	(3) 1/2" Ø	4"	7
DME	1'-6" X 4'-0" X 8"	#4 @ 6" OC E.W. MID-DEPTH	-8.00"	N/A	N/A	+0.00"	(4) 1/2" Ø	3 5/8"	4,9
RBE1	4'-3" X 69'-10.50" X 8"	#4 @ 6" OC E.W. MID-DEPTH	-8.00"	N/A	N/A	+0.00"	N/A	N/A	10
RBE2	4'-3" X 24'-11.50" X 8"	#4 @ 6" OC E.W. MID-DEPTH	-8.00"	N/A	N/A	+0.00"	N/A	N/A	10

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City of Mentor

Seal / Sceau

Project Location / Lieu du Projet
Mentor, OH

Project Number / Numero de Projet
42612

Order Number / Numero d'Ordre

FOUNDATION NOTES: (ALL ANCHORS TO BE SUPPLIED BY VORTEX)

- T.O.C.= TOP OF CONCRETE ELEVATION TAKEN FROM FINISHED POOL DECK WHICH IS ASSUMED TO BE 0.00" [0.00m]
- F.B.E. FOOTING BEARING ELEVATION (BELOW GRADE/DECK)
- GROUT IS NOT CONSIDERED AS EMBEDMENT DEPTH
- Ø 1/2" THREADED ROD ASTM F1554 GR55
- COLUMN ANCHORS, USE Ø 1" EMBEDDED ANCHORS ASTM F1554 GR55
- PIER ANCHORS, USE Ø 1" ANCHORS DRILL & EPOXY W/ HILTI HY200 [ESR 4868] OR EQUIV. ANCHOR GRADE ASTM F1554 GR55
- PIER ANCHORS, USE Ø 1/2" ANCHORS DRILL & EPOXY W/ HILTI HY200 [ESR 4868] OR EQUIV. ANCHOR GRADE ASTM F1554 GR55
- SBE: STAIR BEARING ELEVATION - THIS AREA MUST MAINTAIN 8" POOL DECK THICKNESS
- DME: DECK MOUNTING ELEVATION - THIS AREA MUST MAINTAIN 8" POOL DECK THICKNESS
- RBE: RUNOUT BEARING ELEVATION - THIS AREA MUST MAINTAIN 8" POOL DECK THICKNESS
- COMBINED FOOTINGS

NOTE: COLUMNS AND BRACKETS TO BE BONDED PER LOCAL AND NATIONAL CODE. BONDING NOT PROVIDED BY VORTEX AQUATIC STRUCTURES INTERNATIONAL.

DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
FOOTING SCHEDULE

Drawn by/Dessine par
JWH

Scale/Echelle
N/A

Page#
FD-01

Verified by/Verifie par

Date
12-11-2024

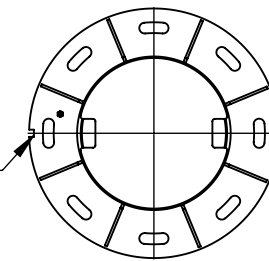
Rev.
R00

SEE FD-02 FOR FOUNDATION LAYOUT

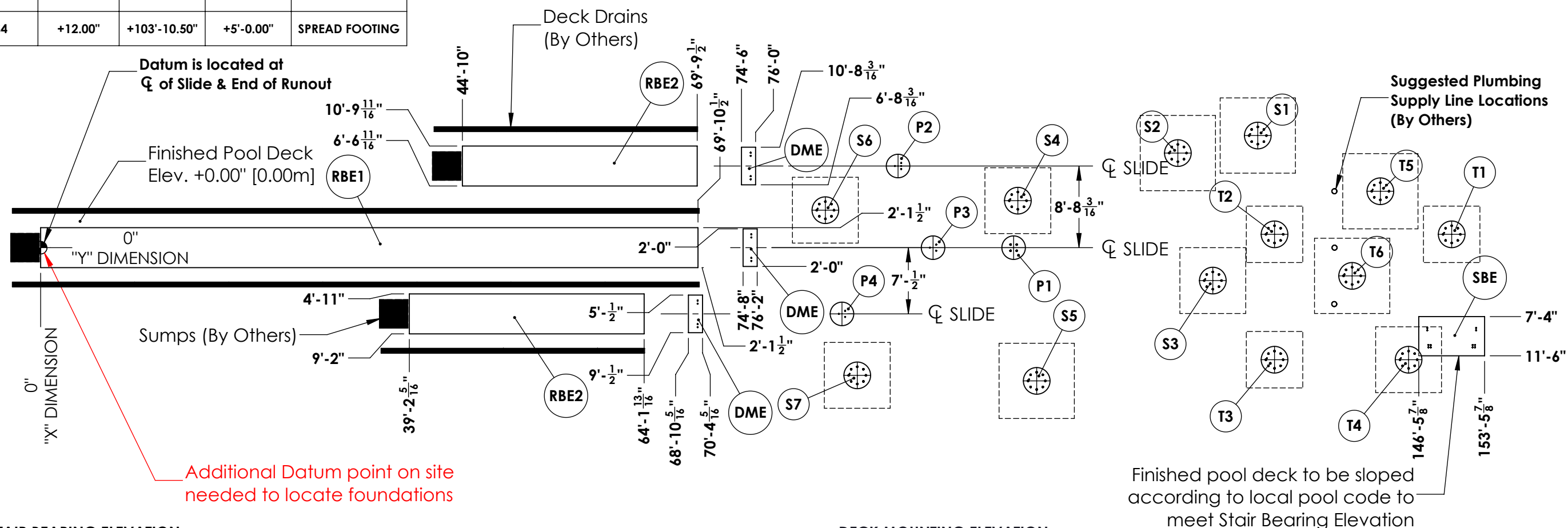
FOUNDATIONS (By Others)					FOUNDATIONS (By Others)				
COLUMN LOCATION	T.O.C. ELEVATION	"X" DIMENSION	"Y" DIMENSION	FOUNDATION TYPE	COLUMN LOCATION	T.O.C. ELEVATION	"X" DIMENSION	"Y" DIMENSION	FOUNDATION TYPE
SBE	+0.00"	SEE DWG	SEE DWG	THICKENED SLAB	S5	+12.00"	+105'-10.56"	-14'-2.00"	SPREAD FOOTING
T1	+12.00"	+149'-11.88"	+1'-5.00"	SPREAD FOOTING	S6	+12.00"	+83'-5.00"	+3'-11.81"	SPREAD FOOTING
T2	+12.00"	+131'-1.94"	+1'-5.00"	SPREAD FOOTING	S7	+12.00"	+86'-9.69"	-13'-6.94"	SPREAD FOOTING
T3	+12.00"	+131'-1.94"	-11'-11.00"	SPREAD FOOTING	P1	+14.88"	+103'-5.13"	+0.00"	PIER
T4	+12.00"	+145'-4.88"	-11'-11.00"	SPREAD FOOTING	P2	+15.44"	+91'-1.69"	+8'-8.19"	PIER
T5	+12.00"	+142'-4.94"	+6'-0.00"	SPREAD FOOTING	P3	+18.81"	+94'-10.38"	+0.00"	PIER
T6	+12.00"	+139'-4.94"	-3'-0.00"	SPREAD FOOTING	P4	+16.75"	-85'-2.19"	-7'-0.50"	PIER
S1	+12.00"	+129'-4.56"	+11'-11.06"	SPREAD FOOTING	DME	+0.00"	SEE DWG	SEE DWG	THICKENED SLAB
S2	+12.00"	+120'-10.63"	+10'-0.69"	SPREAD FOOTING	RBE 1 & 2	+0.00"	SEE DWG	SEE DWG	THICKENED SLAB
S3	+12.00"	+124'-7.19"	-3'-6.00"	SPREAD FOOTING					
S4	+12.00"	+103'-10.50"	+5'-0.00"	SPREAD FOOTING					

T.O.C. = TOP OF CONCRETE ELEVATION TAKEN FROM FINISHED POOL DECK WHICH IS ASSUMED TO BE "0.00" [0.00m].
 DME = DECK MOUNTING ELEVATION
 SBE = STAIR BEARING ELEVATION
 RBE - RUNOUT BEARING ELEVATION

UNLESS OTHERWISE NOTED, NOTCH IN COLUMN BASE PLATE TO FACE THIS DIRECTION TOWARDS END OF RUNOUTS



TYPICAL COLUMN ORIENTATION DETAIL



STAIR BEARING ELEVATION:

THIS AREA TO BE AT STAIR BEARING ELEVATION AND CONCRETE SHOULD BE LEVEL SO STAIR STRINGERS ARE LEVEL. POOL DECK SHOULD SLOPE TO MEET THE STAIR BEARING ELEVATION, THERE SHOULD NOT BE A STEP OR TRIP HAZARD BETWEEN THE STAIR BEARING ELEVATION AND THE POOL DECK.

TOWER COLUMN LOCATIONS:

THIS AREA REQUIRES A SPREAD FOUNDATION FOOTING. ELEVATION OF FOUNDATION AT COLUMN LOCATION, TO BE AT TOP OF CONCRETE ELEVATION PER FOOTING SCHEDULE AND CONCRETE SHOULD BE LEVEL IN THE CENTER OF THE AREA.

DECK MOUNTING ELEVATION:

THIS AREA TO BE AT FINISHED POOL DECK ELEVATION AND CONCRETE SHOULD BE LEVEL SO DECK MOUNTING BRACKETS ARE LEVEL. POOL DECK SHOULD SLOPE TO MEET THE DECK MOUNTING ELEVATION, THERE SHOULD NOT BE A STEP OR TRIP HAZARD BETWEEN THE DECK MOUNTING ELEVATION AND THE POOL DECK.

RUNOUT BEARING ELEVATION:

THIS AREA TO BE AT FINISHED POOL DECK ELEVATION AND CONCRETE SHOULD BE LEVEL SO RUNOUT BEARING ELEVATION IS LEVEL. POOL DECK SHOULD SLOPE TO MEET THE RUNOUT BEARING ELEVATION, THERE SHOULD NOT BE A STEP OR TRIP HAZARD BETWEEN THE RUNOUT BEARING ELEVATION AND THE POOL DECK.

CUSTOMER TO ADAPT SLOPE OF POOL DECK TO SBE ELEVATION NOTED IN THIS DRAWING.

SEE AD-01 THRU AD-03 FOR FOUNDATION TYPICAL DETAILS

Seal / Sceau

Project Location / Lieu du Projet

Mentor, OH

Project Number / Numero de Projet

42612

Order Number / Numero d'Ordre

DATE Revision Description No. By/Par

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FOUNDATION LAYOUT

Drawn by/Dessiné par Verified by/Verifié par

JWH

Scale/Echelle

1:140

Page#

FD-02

Date

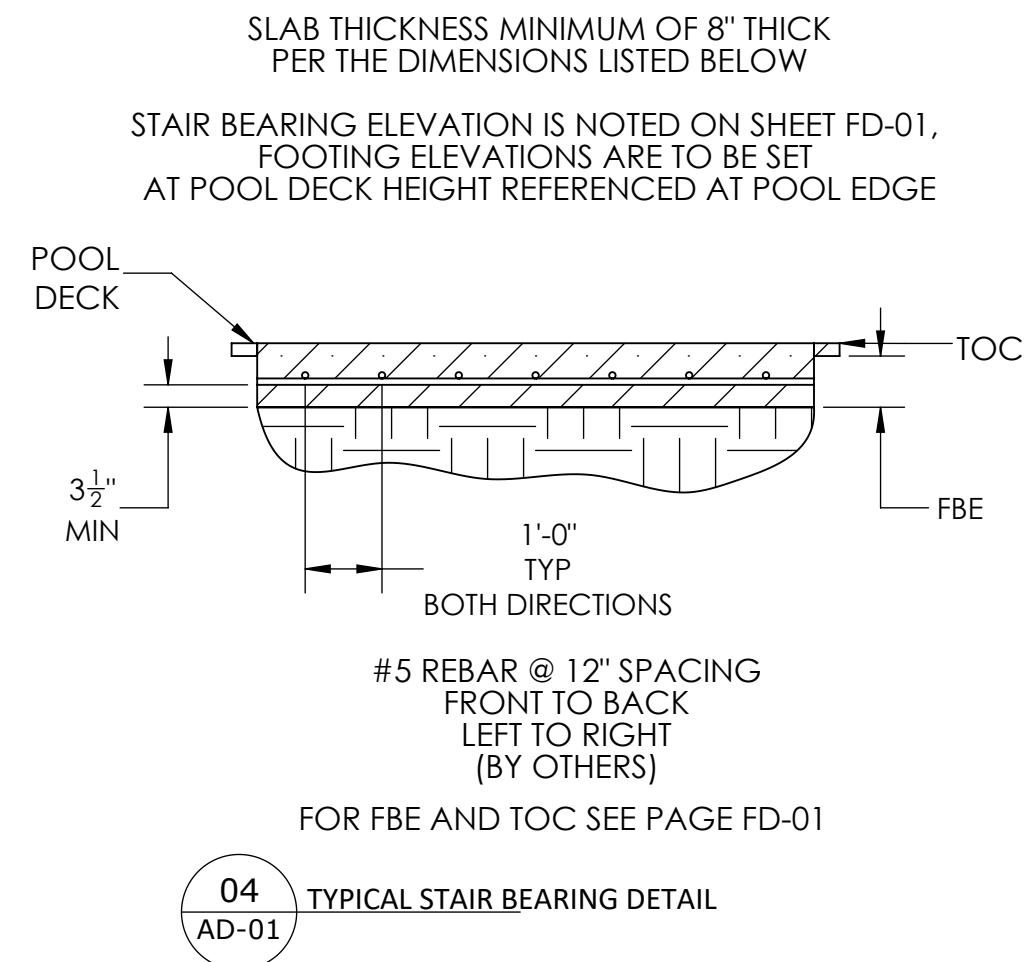
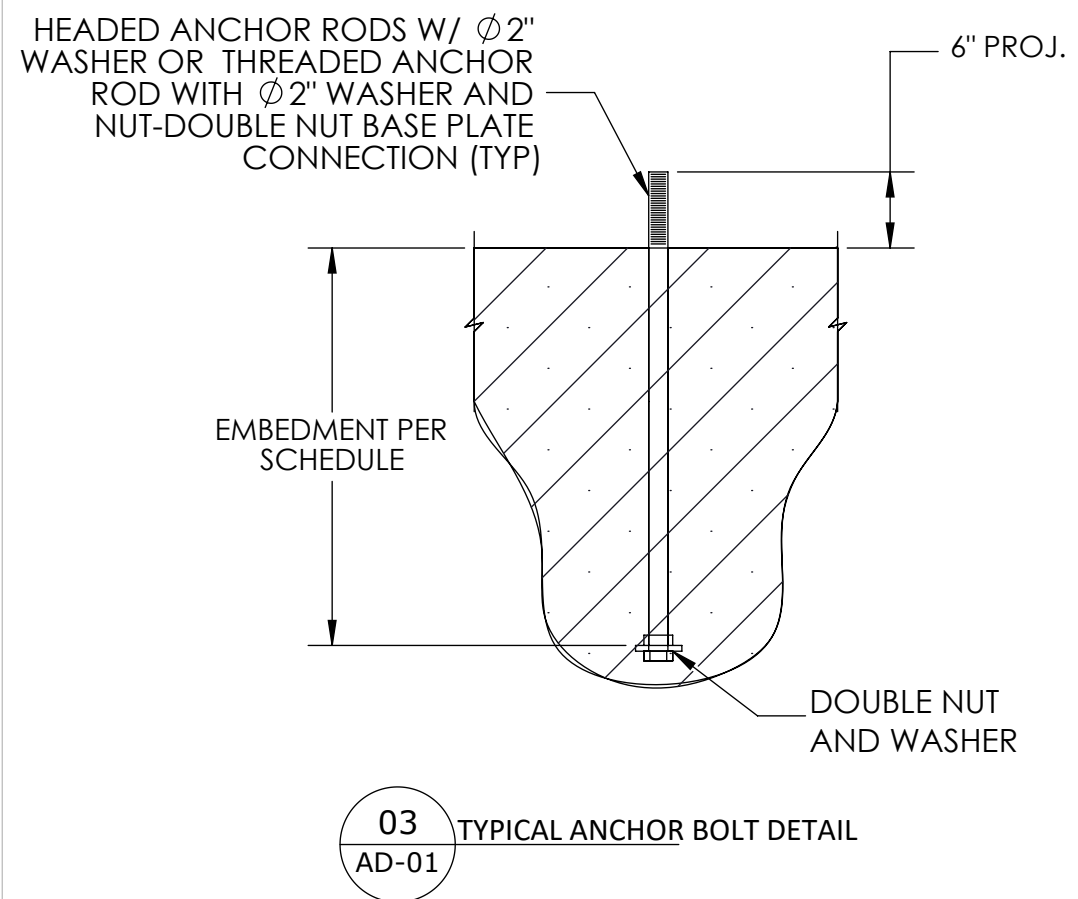
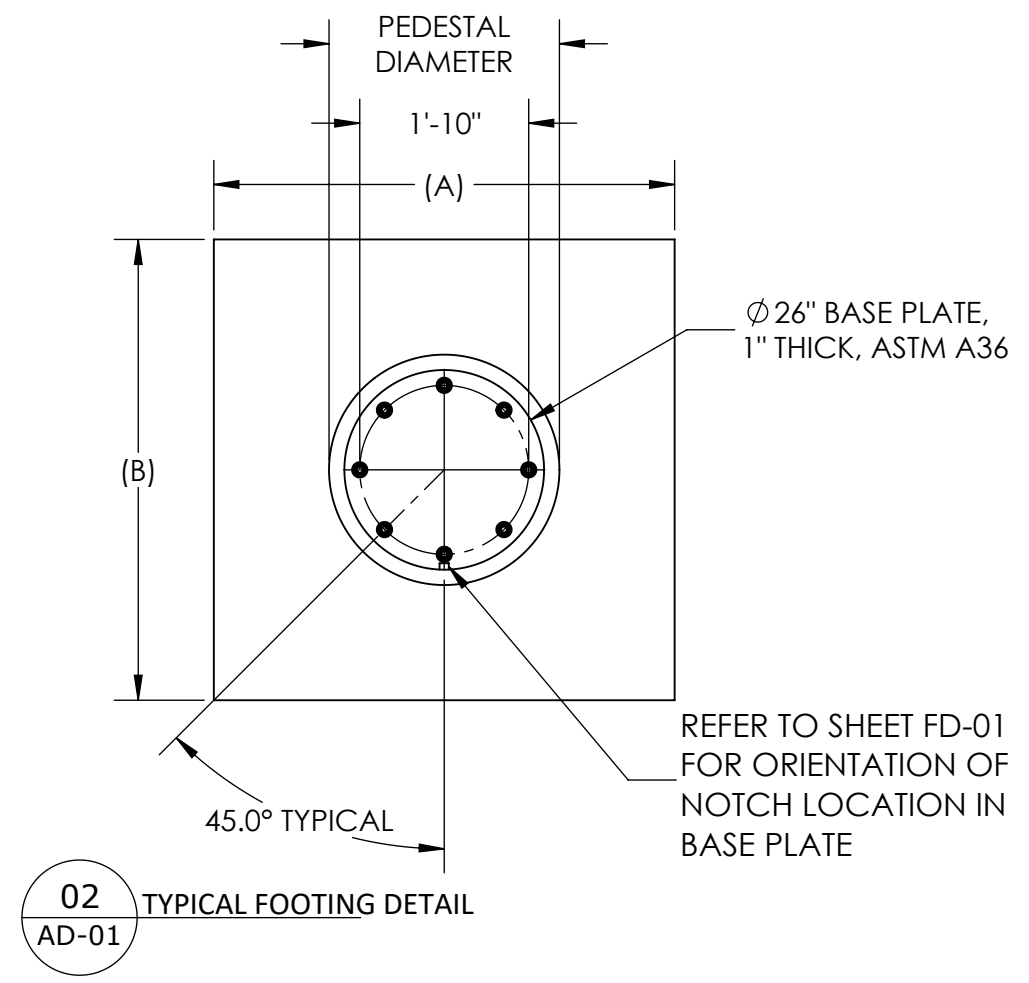
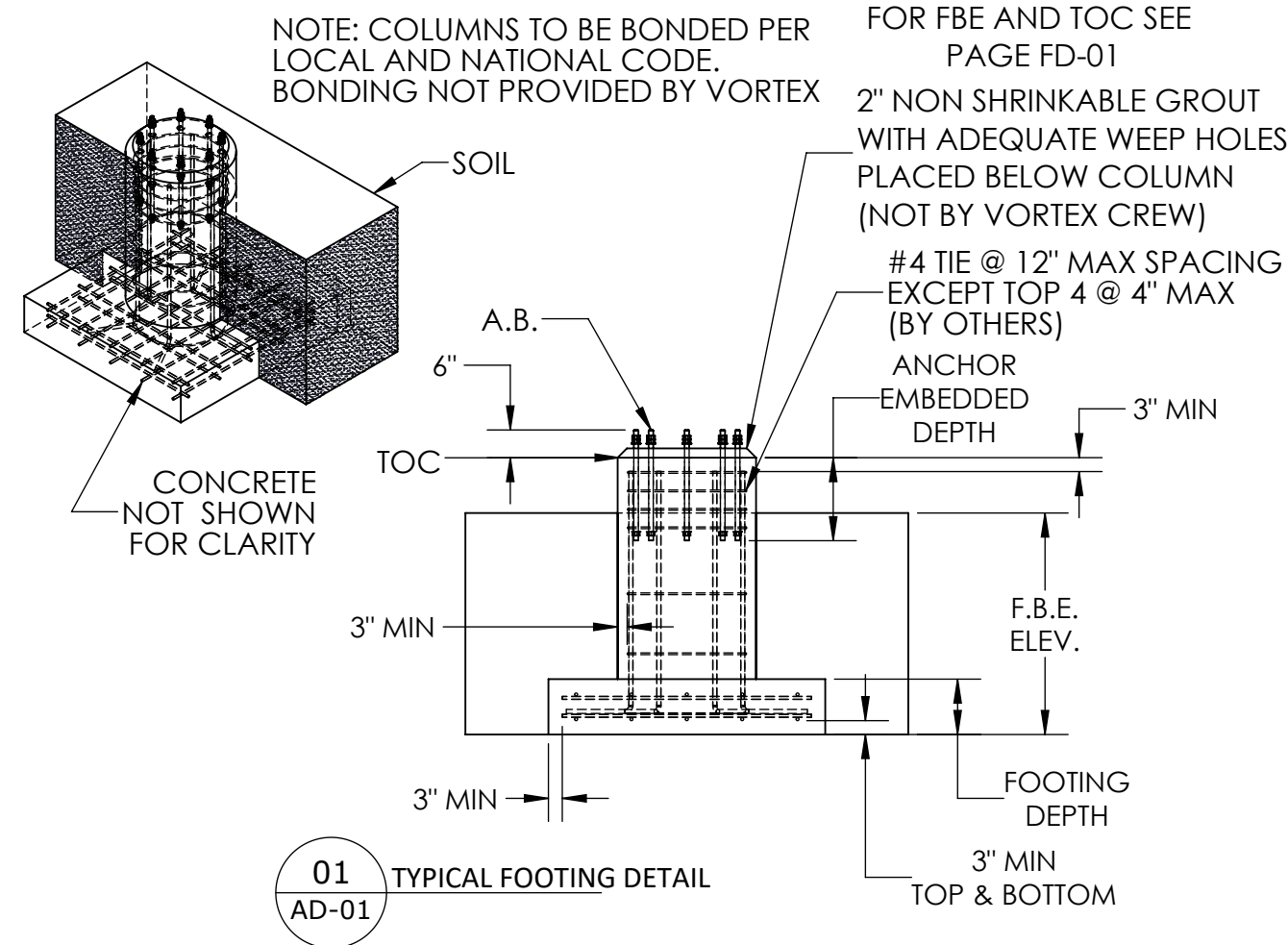
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City of Mentor



Seal / Sceau		
Project Location / Lieu du Projet Mentor, OH		
Project Number / Numero de Projet 42612		
Order Number / Numero d'Ordre		
DATE	Revision Description	No. By/Par
Drawing Title / Titre du Dessin FOUNDATION TYPICAL DETAILS		
Drawn by/Dessine par JWH	Verified by/Verifie par	
Scale/Echelle N/A	Date 12-11-2024	
Page# AD-01	Rev. R00	

ALL COLUMNS HAVE 3/8" BOLT TO MOUNT GROUNDING LUG. GROUNDING LUG IS ON GUSSET NEXT TO LOCATION NOTCH

HSS 16" X 0.25 A500 GR. B

BONDING RECOMMENDED

3/8"-16 HDG GROUNDING LUG

TYP 1/4

1/4

9 1/2" TALL X 4 1/4" WIDE X 1/2" THK GUSSET PLATE, TYP.

REFER TO SHEET FD-02 FOR ORIENTATION OF NOTCH LOCATION IN BASE PLATE

01 TYPICAL GROUNDING LUG LOCATION
AD-02

ANCHORS PER SCHEDULE.

NON SHRINKABLE GROUT WITH ADEQUATE WEEP HOLES PLACED BELOW SUPPORT BRACKET (NOT BY VORTEX CREW)

2" MIN

2"

TOC

VERT. REINF. PER SCHEDULE

FBE

3" MIN

#3 TIES @ 12" SPACING EXCEPT TOP (4) #3 TIES @ 4" SPACING (BY OTHERS)

3" CLR

FOR FBE AND TOC SEE PAGE FD-01

02 TYPICAL PIER DETAIL
AD-02

Seal / Sceau

Project Location / Lieu du Projet
Mentor, OH

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42612

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FOUNDATION TYPICAL DETAILS

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Scale/Echelle
N/A

Date
12-11-2024

Page#
AD-02

Rev.
R00

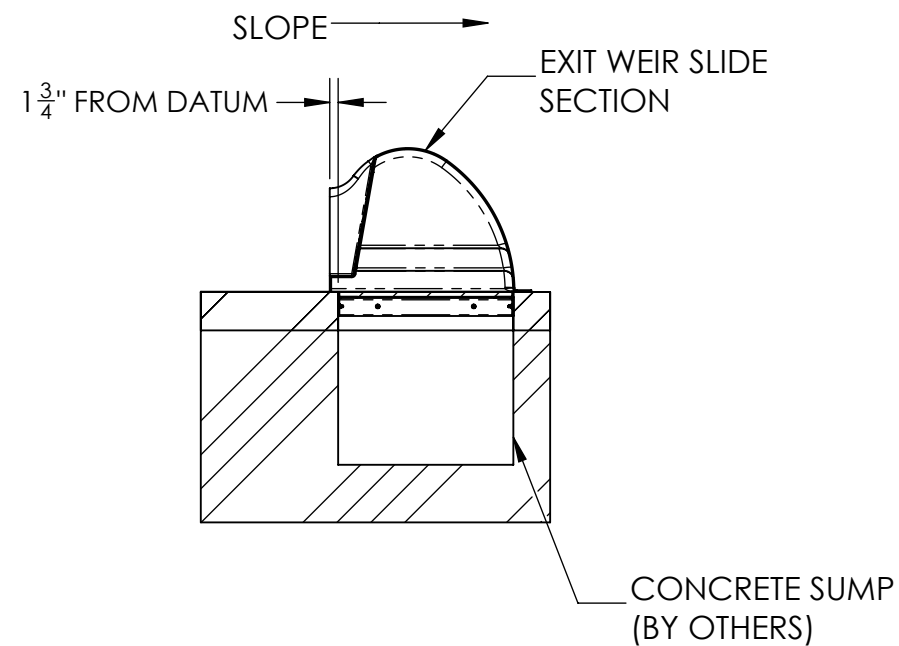
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MC12x10.6 A36,
BASE STAIR STRINGER

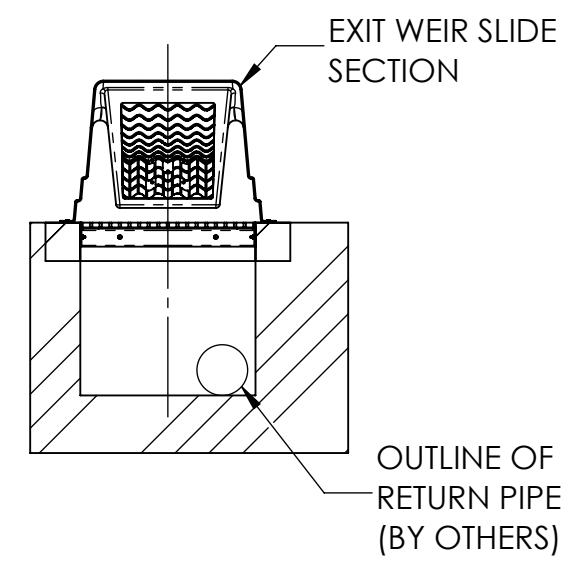
L1/2" x 3" x 5" A36,
BASE ANGLE

Ø 1/2" HDG THREADED RODS w/
HILTI-HY 200 V3 EPOXY & MIN.
EFFECTIVE EMBEDMENT OF 2 3/4".
INSTALLED PER MANUFACTURER
SPECIFICATION & ICC-ES ESR-4868

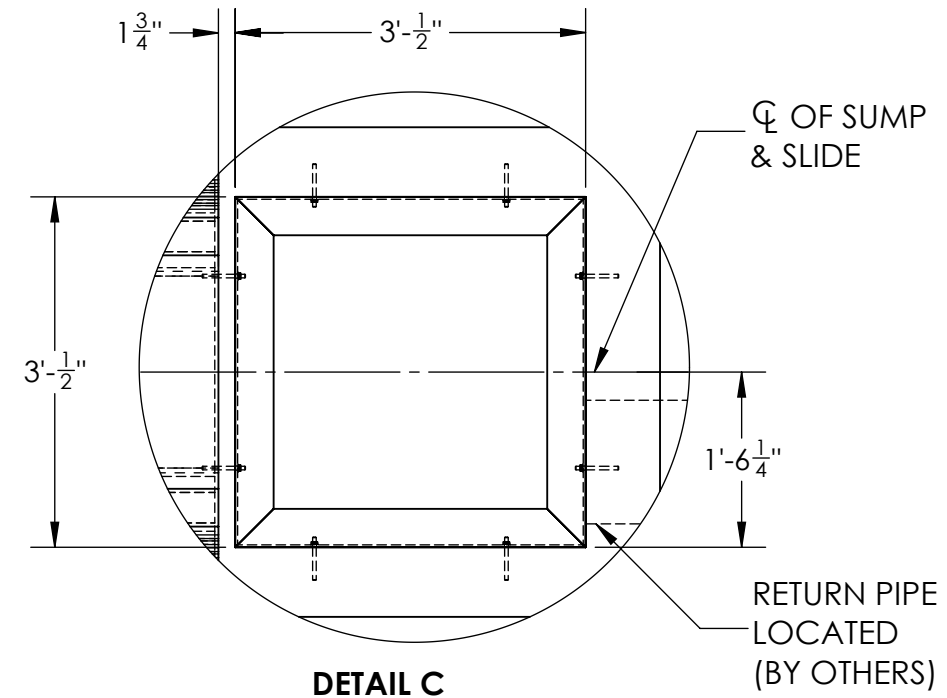
03 TYPICAL STAIR BASE ATTACHMENT DETAIL
AD-02



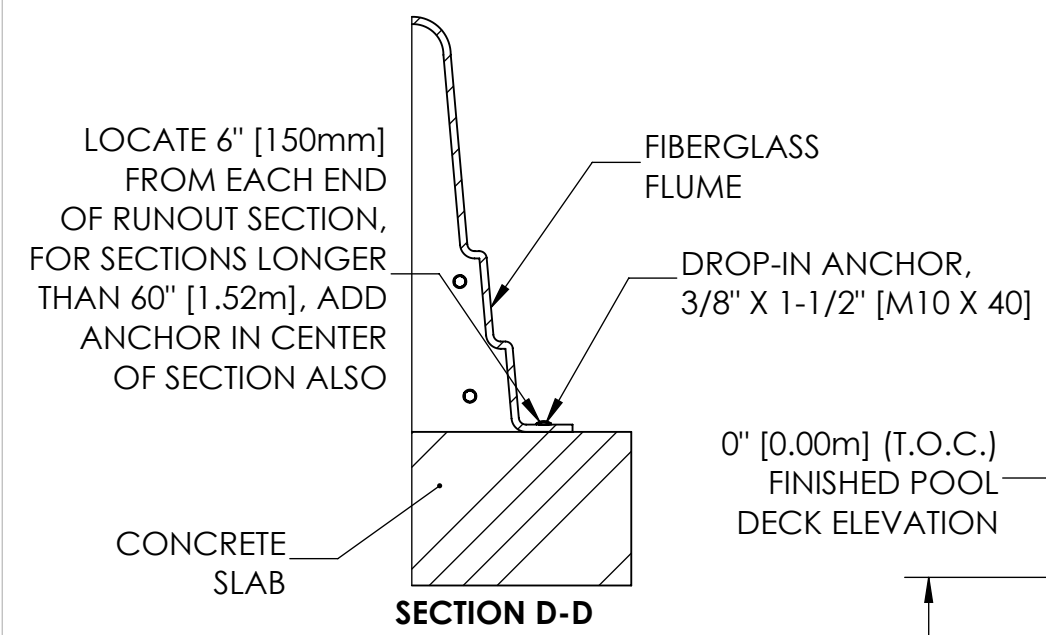
**SECTION A-A
SCALE 1 : 40**



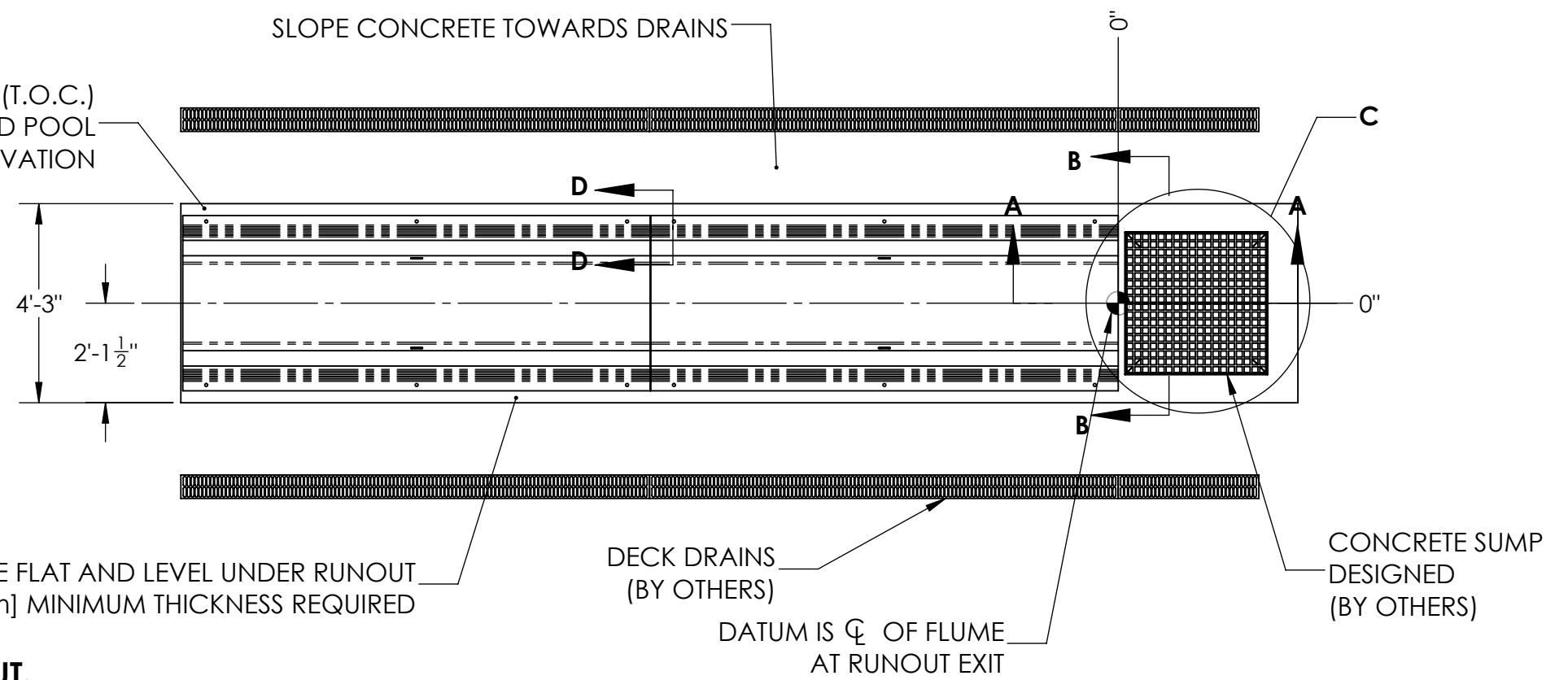
**SECTION B-B
SCALE 1 : 40**



**DETAIL C
SCALE 1 : 20**



SECTION D-D



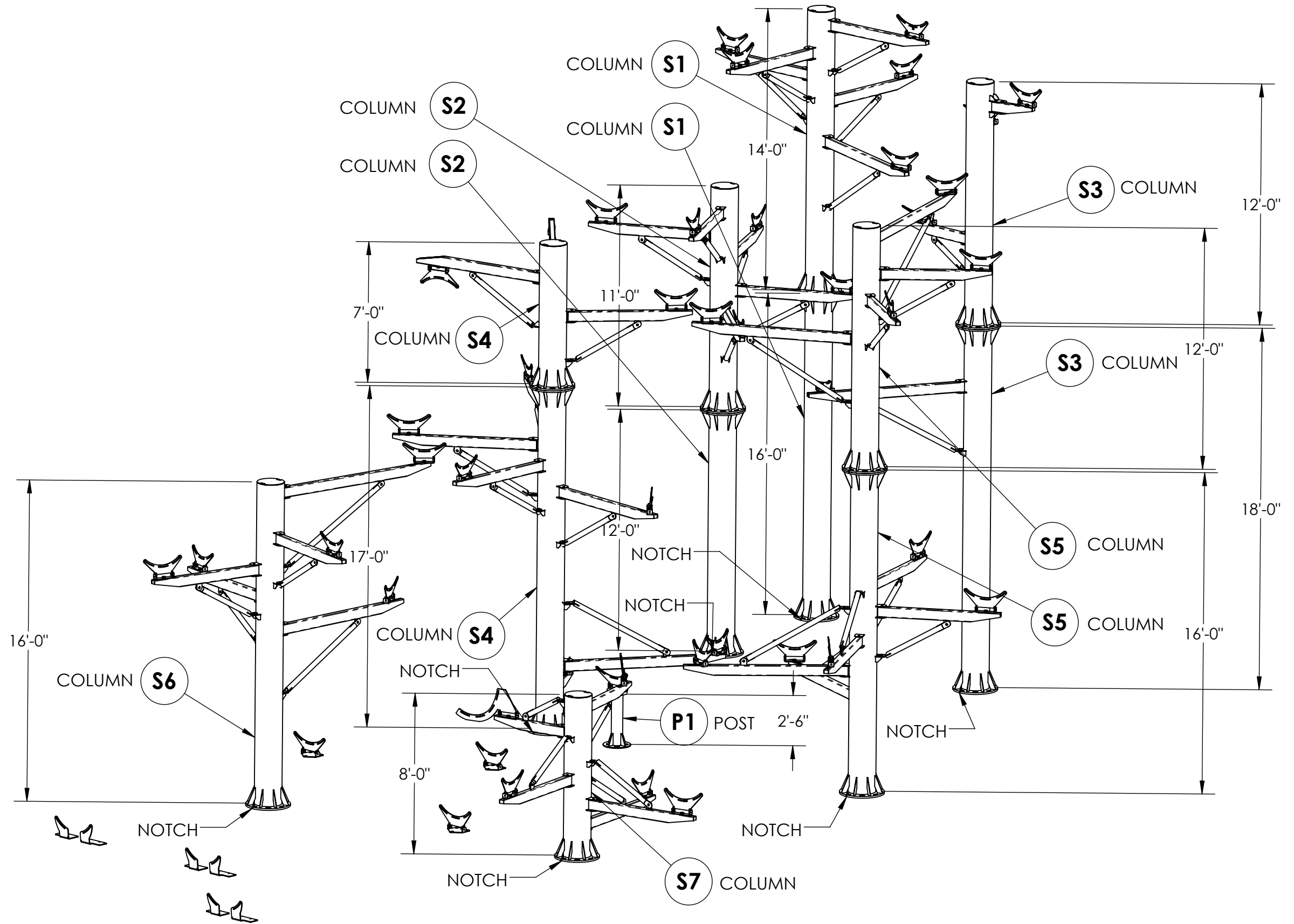
NOTE: DECK DRAINS RUN PARALLEL WITH RUNOUT.

Seal / Sceau		
Project Location / Lieu du Projet Mentor, OH		
Project Number / Numero de Projet 42612		
Order Number / Numero d'Ordre		
DATE	Revision Description	No. By/Par
Drawing Title / Titre du Dessin RUNOUT DETAILS		
Drawn by/Dessine par JWH	Verified by/Verifie par	
Scale/Echelle 1:10	Date 12-11-2024	
Page# AD-03R	Rev. R00	

* ALL COLUMNS TO BE HSS 16"x0.25" A500 GR. B STEEL
 * POST P1 TO BE 6" SCH 40 A53 GR. B STEEL

SEE ST-02 THRU ST-05 FOR FLUME SUPPORT TYPICAL DETAILS

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City of Mentor

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Project Location / Lieu du Projet

Mentor, OH

Project Number / Numero de Projet

42612

Order Number / Numero d'Ordre

DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin

FLUME SUPPORTS

Drawn by/Dessine par

JWH

Verified by/Verifie par

Scale/Echelle

N/A

Date

12-11-2024

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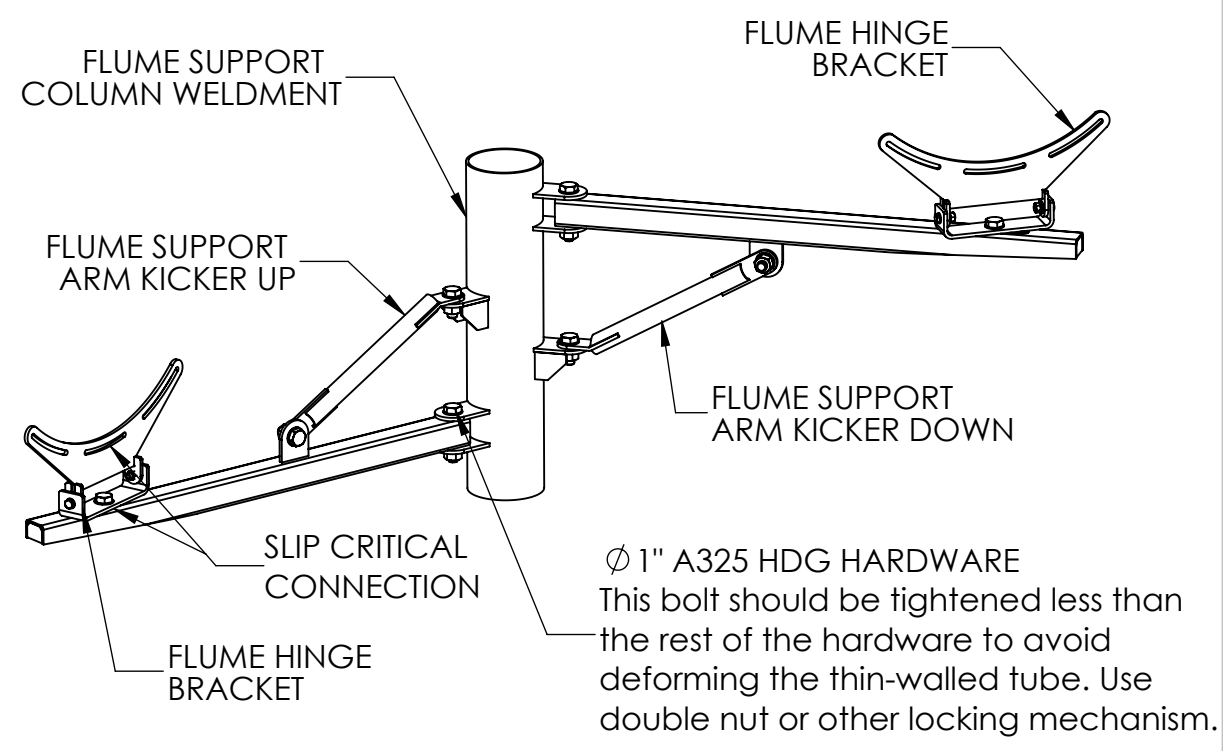
ST-01

Rev.

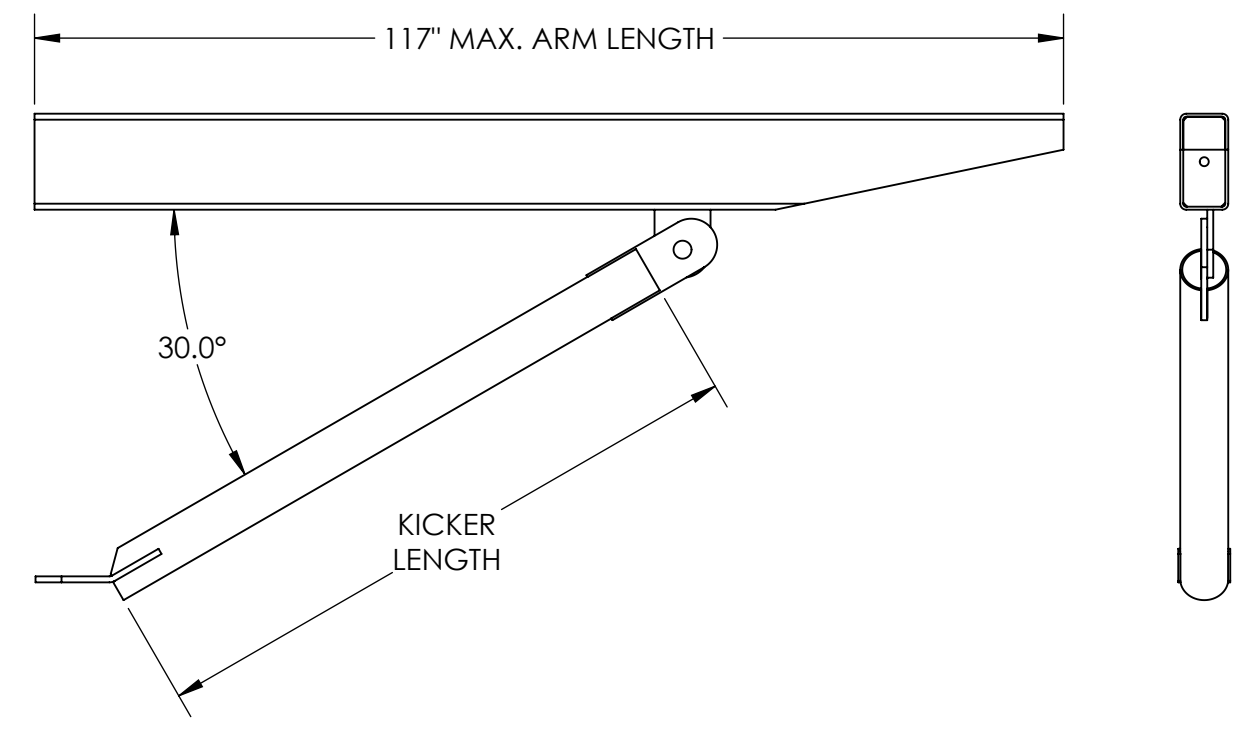
R00

Waterside steel support structure shall be hot-dip galvanized steel standard (according to ASTM A123) for weathering resistance of architectural exterior applications.

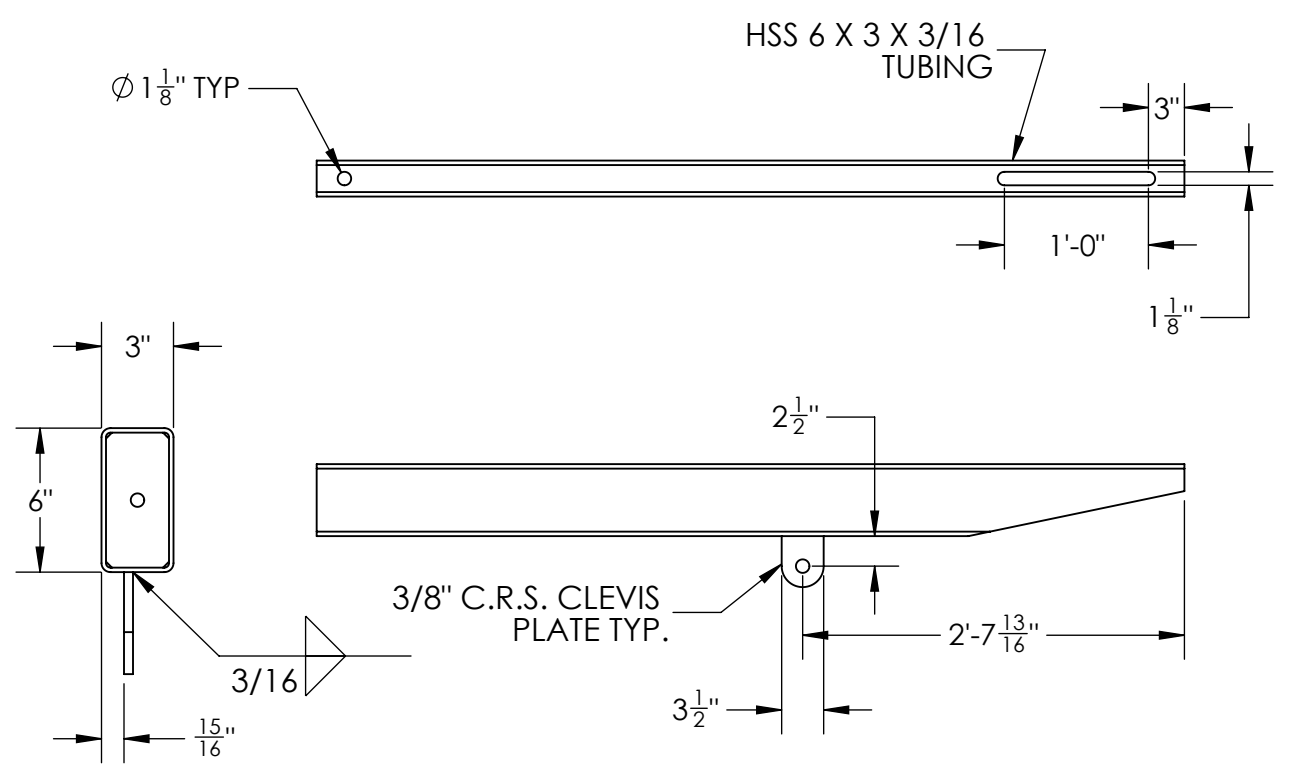
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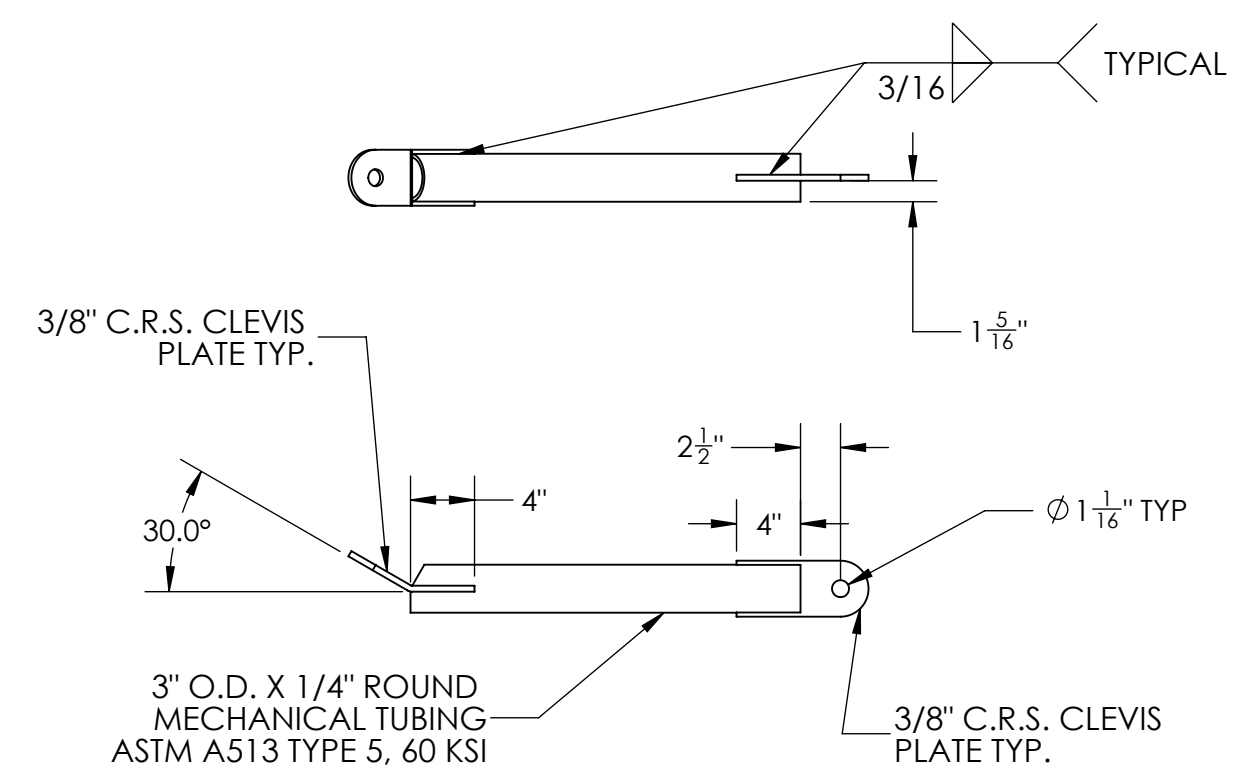
01 FLUME SUPPORT ARMS ATTACHMENT TYPICAL DETAIL
 ST-02



02 FLUME SUPPORT ARM TYPICAL DETAIL
 ST-02



03 FLUME SUPPORT ARM TYPICAL DETAIL
 ST-02



04 FLUME ARM KICKER TYPICAL DETAIL
 ST-02

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Project Location / Lieu du Projet
 Mentor, OH

Project Number / Numero de Projet
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DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
FLUME SUPPORT TYPICAL DETAILS

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 JWH

Scale/Echelle
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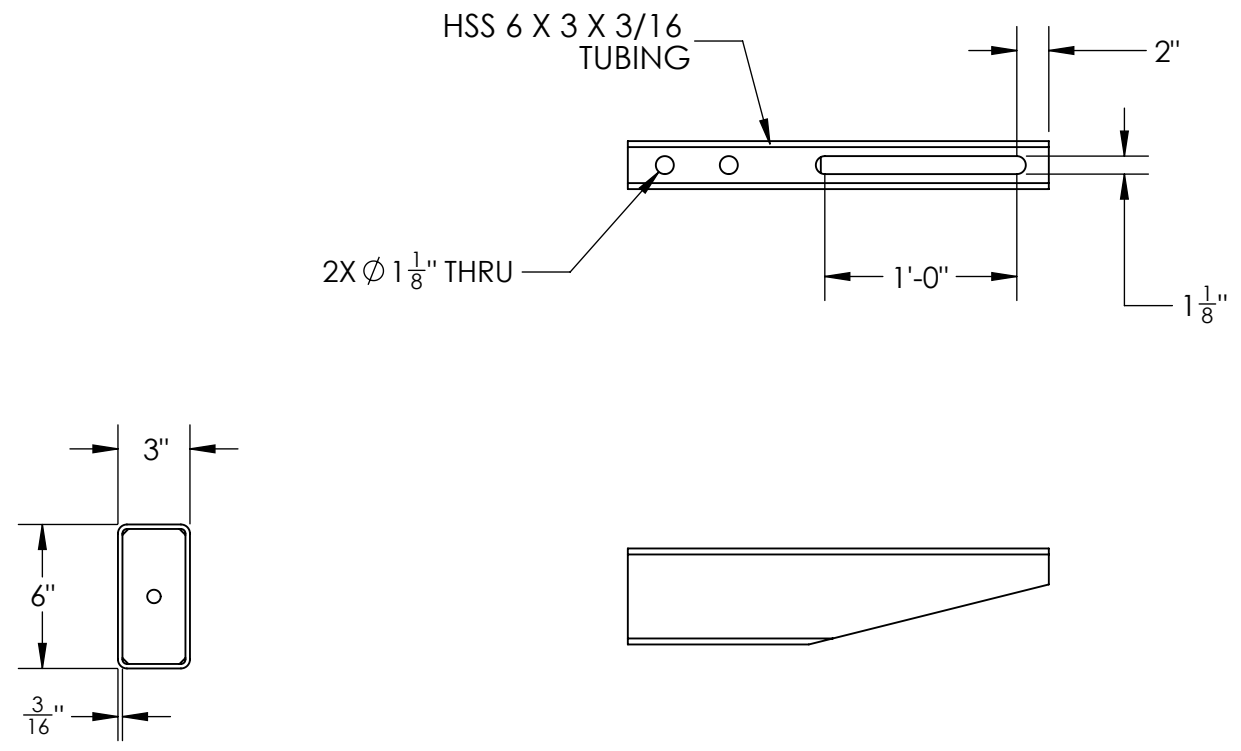
Page#
 ST-02

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 12-11-2024

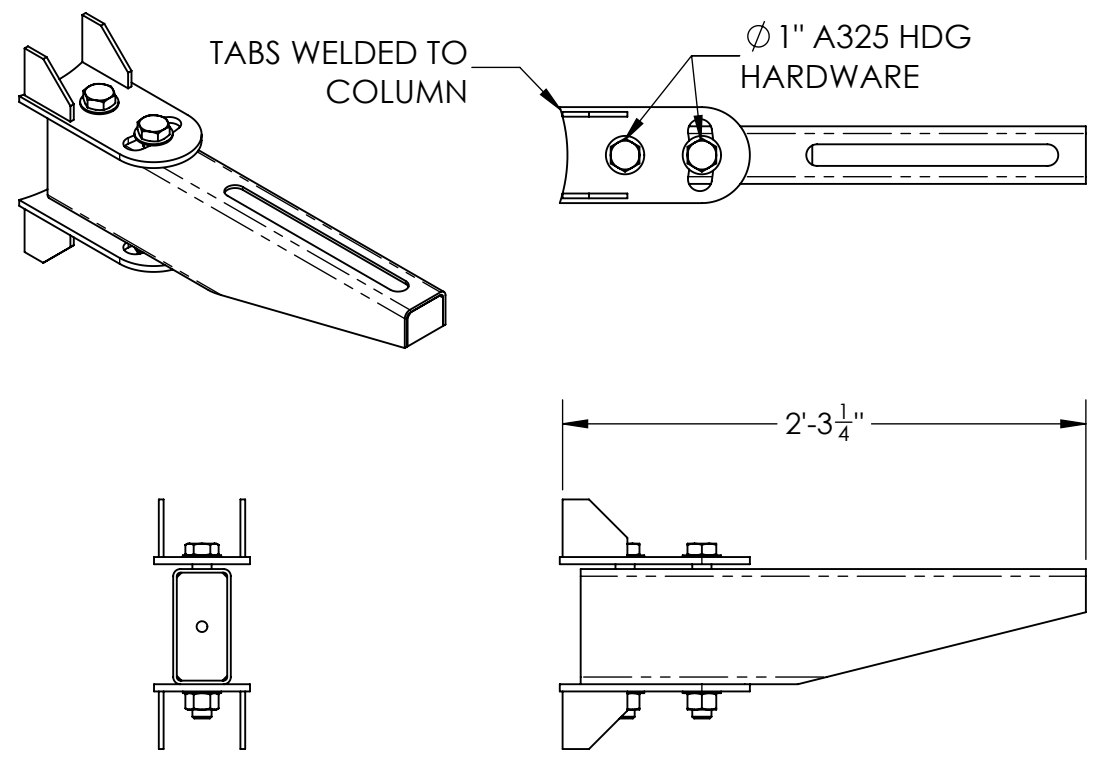
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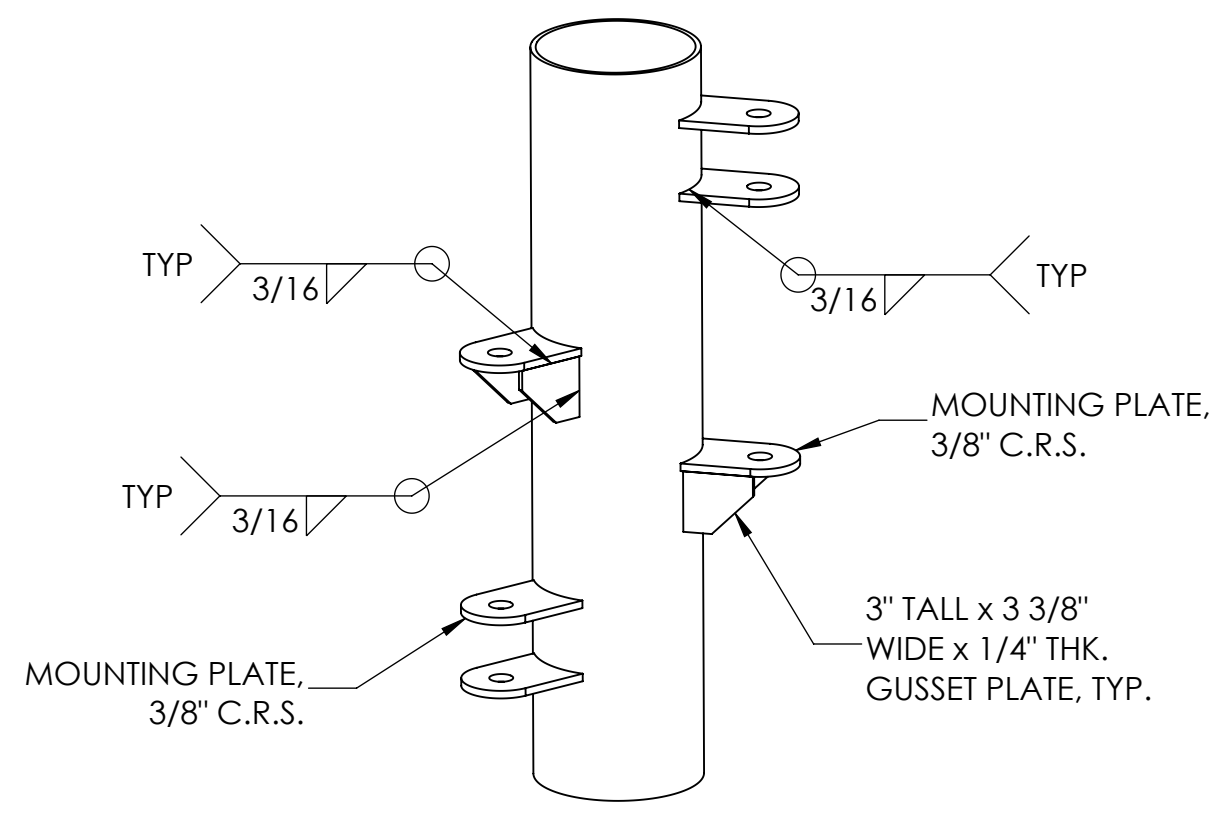
City of Mentor



01 FLUME SHORT SUPPORT ARM TYPICAL DETAIL
 ST-03



02 FLUME SHORT SUPPORT ARM TYPICAL DETAIL
 ST-03



03 FLUME SUPPORT ARMS ATTACHMENT TYPICAL DETAIL
 ST-03

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Seal / Sceau

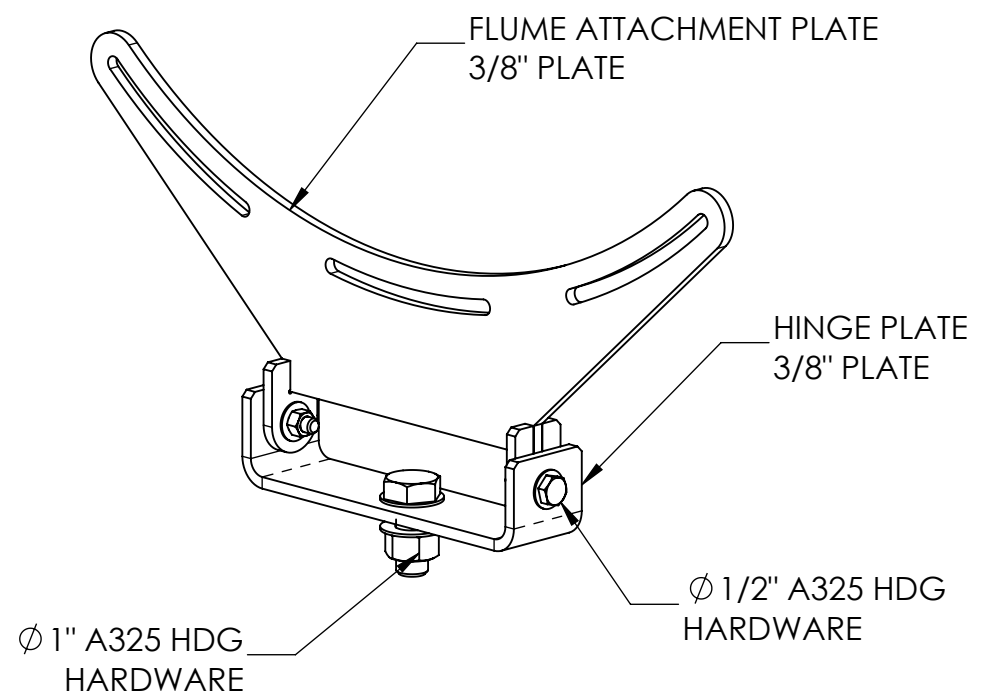
Project Location / Lieu du Projet
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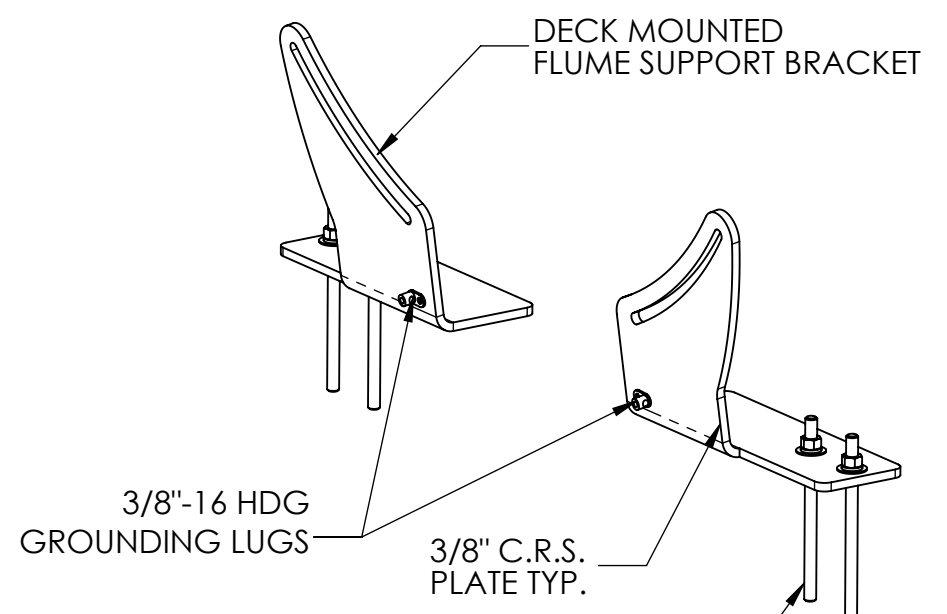
Order Number / Numero d'Ordre

DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin	
FLUME SUPPORT TYPICAL DETAILS	
Drawn by/Dessine par JWH	Verified by/Verifie par
Scale/Echelle N/A	Date 12-11-2024
Page# ST-03	Rev. R00

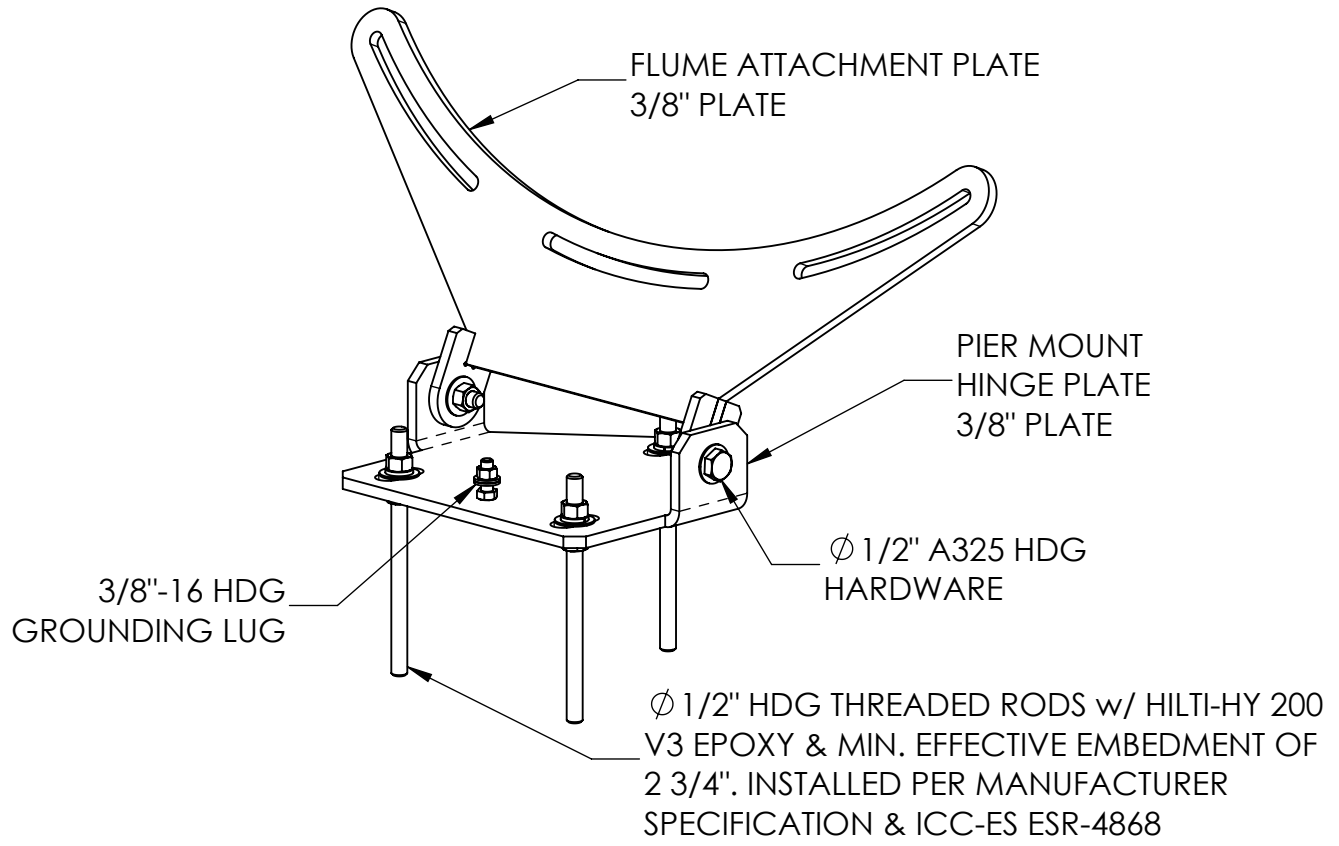


01 TYPICAL FLUME SUPPORT BRACKET DETAIL
 ST-04

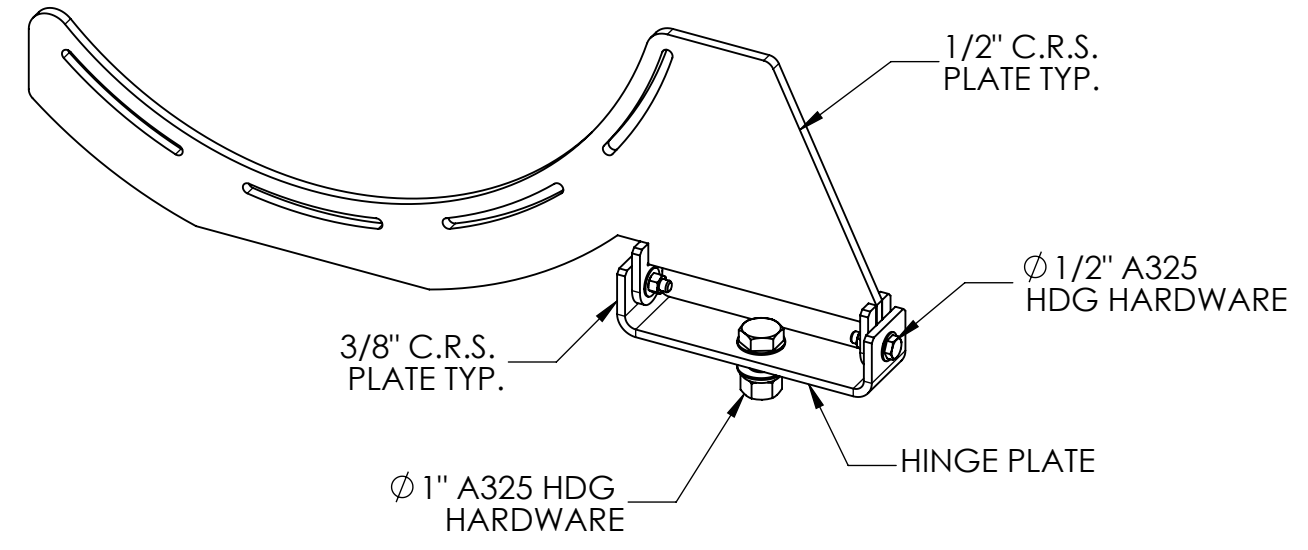


3/8"-16 HDG GROUNDING LUGS
 3/8" C.R.S. PLATE TYP.
 Ø 1/2" HDG THREADED RODS w/ HILTI-HY 200 V3 EPOXY & MIN. EFFECTIVE EMBEDMENT OF 2 3/4". INSTALLED PER MANUFACTURER SPECIFICATION & ICC-ES ESR-4868

02 TYPICAL DECK MOUNTING BRACKETS DETAIL
 ST-04



03 TYPICAL FLUME PIER SUPPORT BRACKET DETAIL
 ST-04

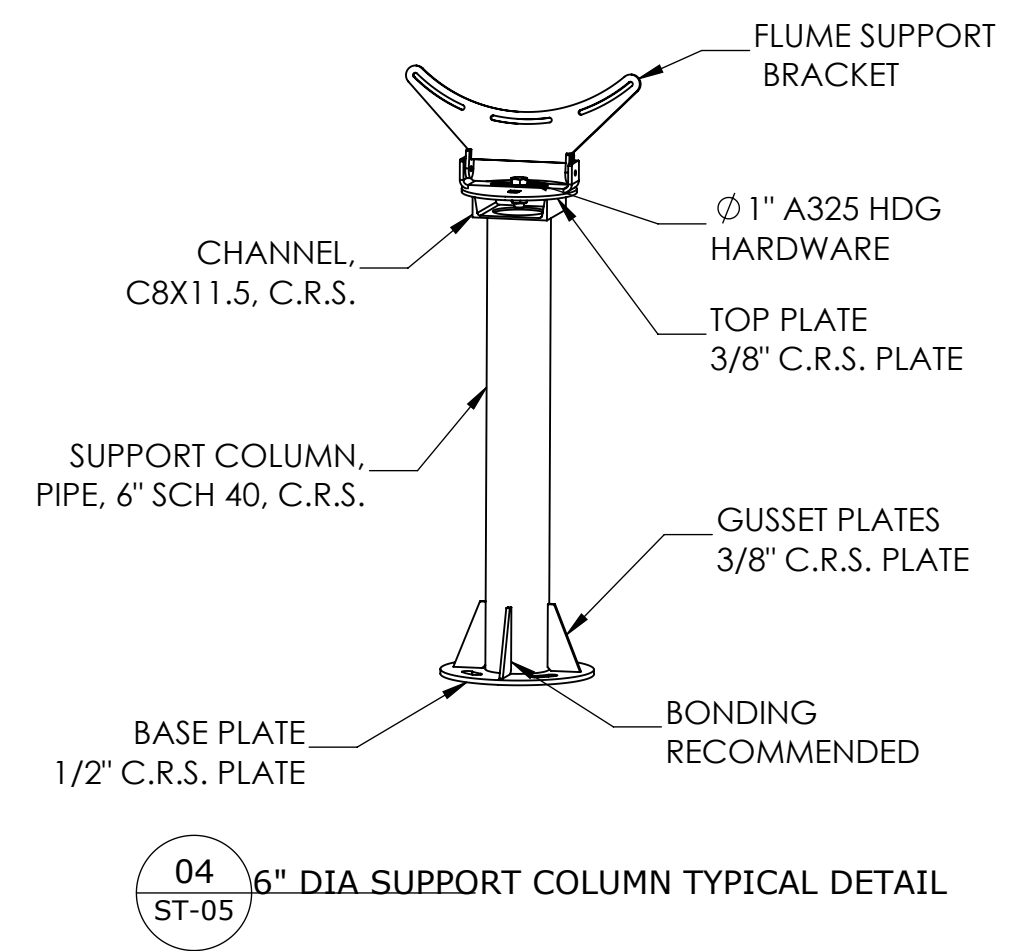
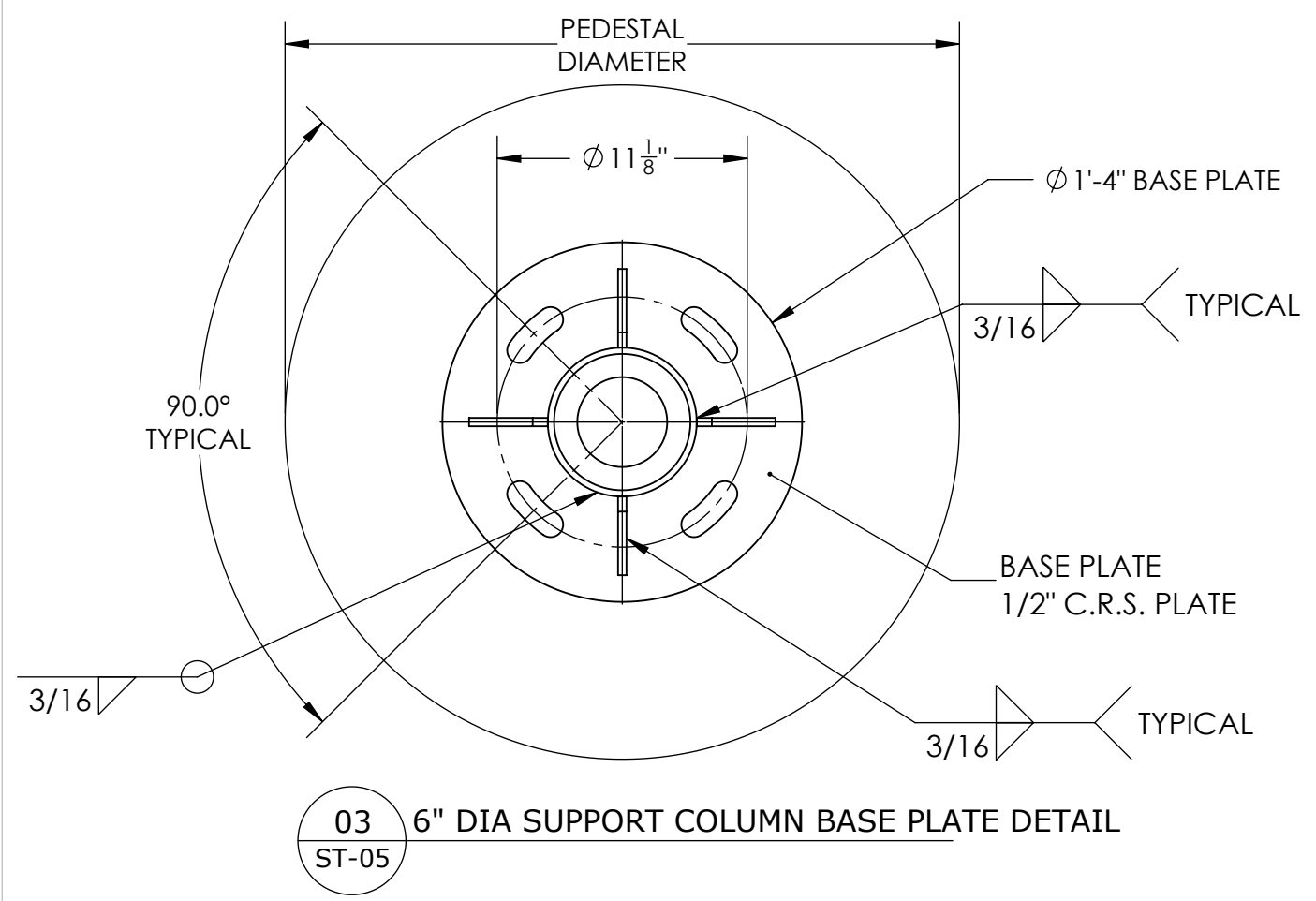


04 TYPICAL FLUME SUPPORT SIDE MOUNT BRACKET DETAIL
 ST-04

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Project Number / Numero de Projet 42612		
Order Number / Numero d'Ordre		
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Drawn by/Dessine par JWH	Verified by/Verifie par	
Scale/Echelle N/A	Date 12-11-2024	
Page# ST-04	Rev. R00	

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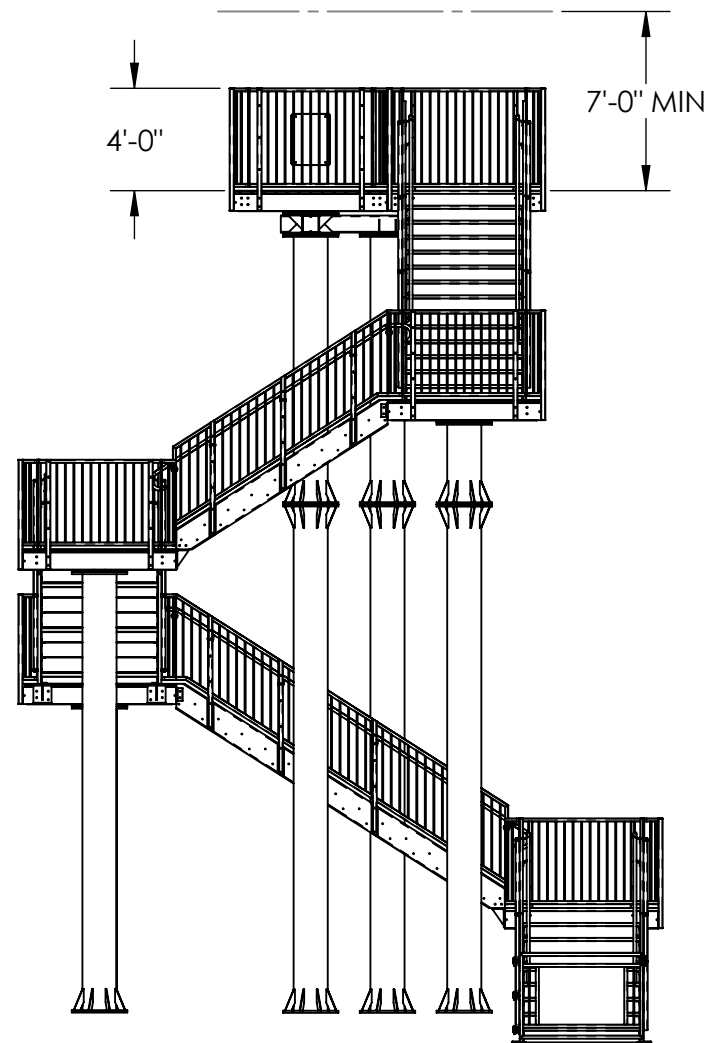
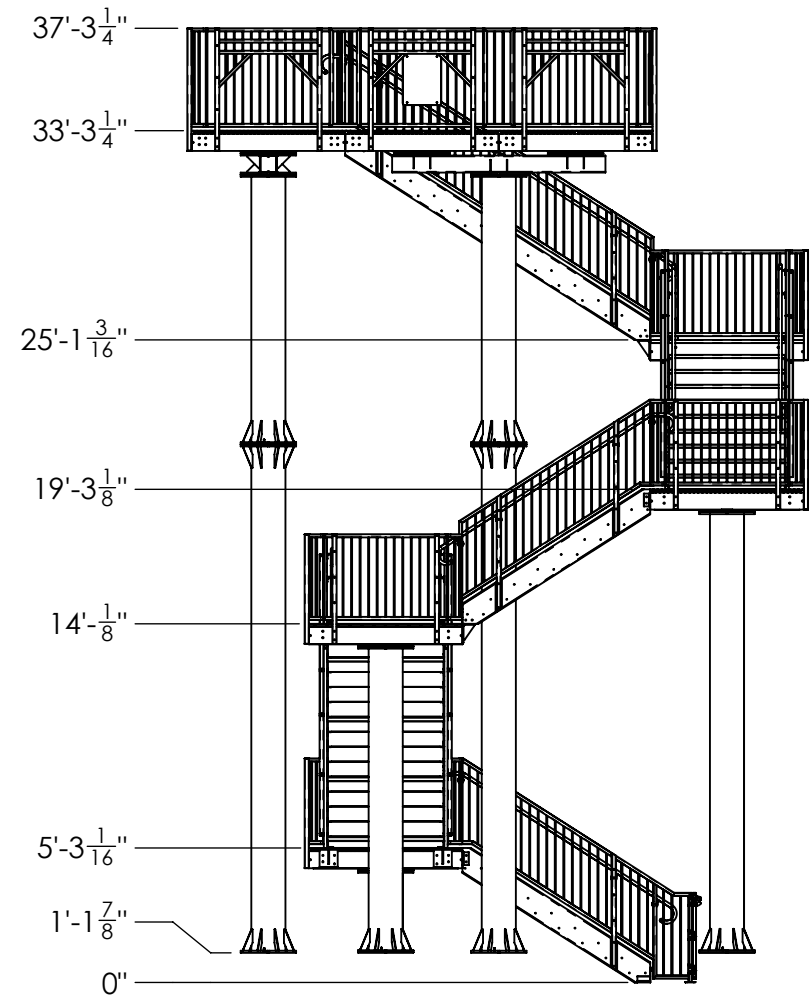
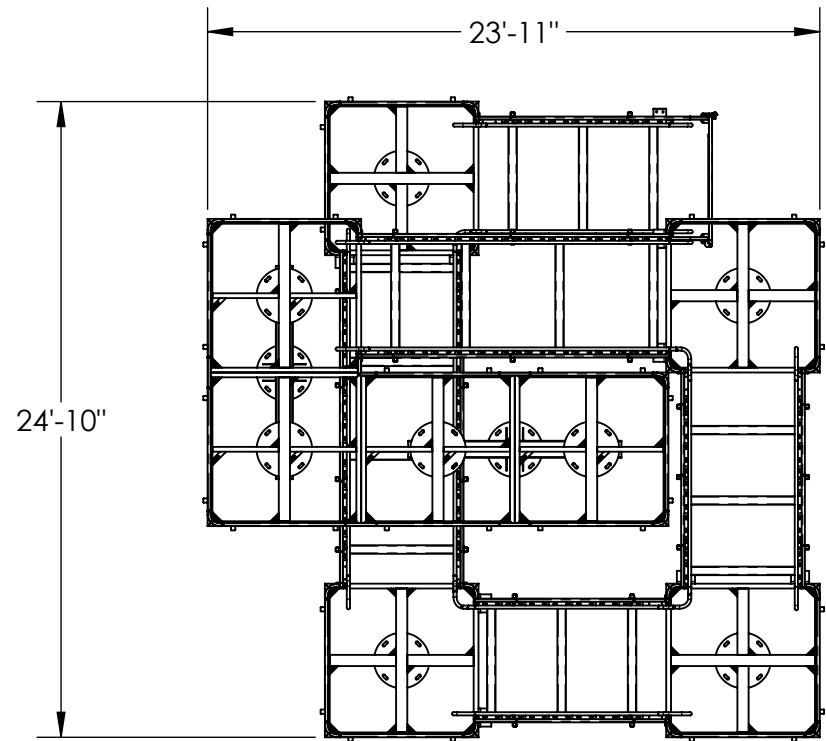


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Order Number / Numero d'Ordre		
DATE	Revision Description	No. By/Par
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Page# ST-05	Rev. R00	

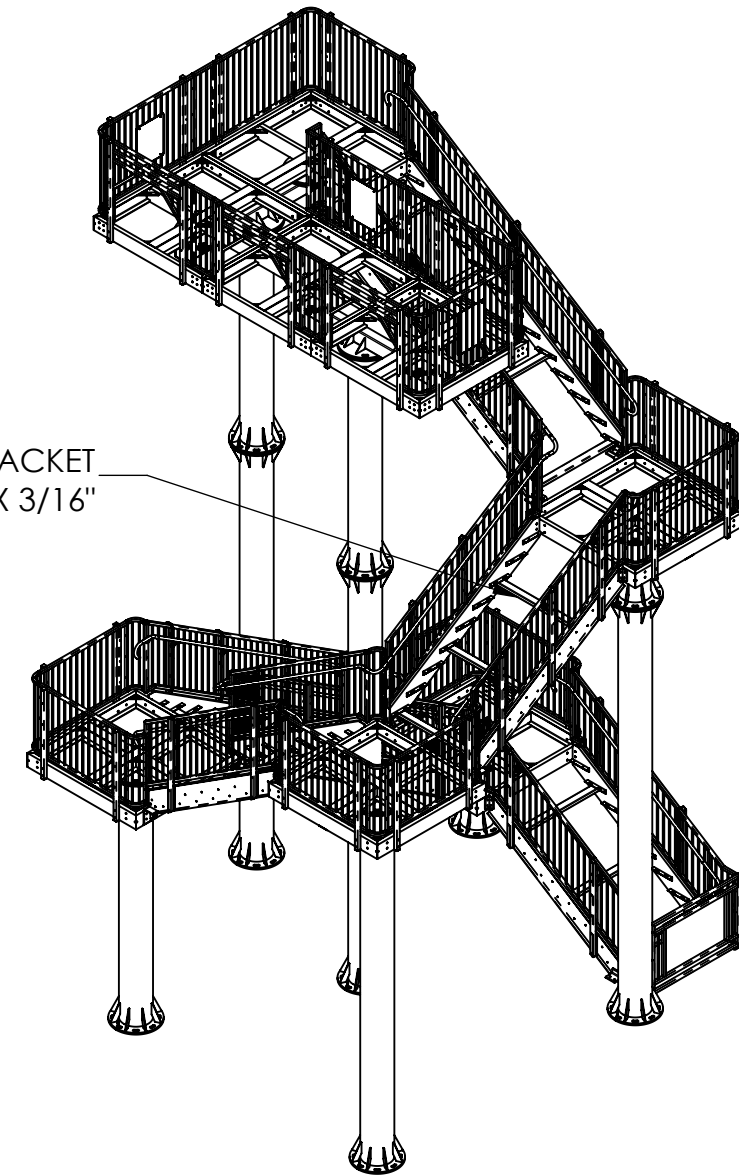
SEE PT-02 THRU PT-05 FOR PLATFORM & STAIRWAY TYPICAL DETAILS
SEE CT-01 FOR CANOPY ASSEMBLY

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City of Mentor



STAIR SPACER BRACKET
 HSS 4" X 2" X 3/16"



Waterslide steel support structure shall be hot-dip galvanized steel standard (according to ASTM A123) for weathering resistance of architectural exterior applications.

Seal / Sceau

Project Location / Lieu du Projet
 Mentor, OH

Project Number / Numero de Projet
 42612

Order Number / Numero d'Ordre

DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
PLATFORM & STAIRWAY LAYOUT

Drawn by/Dessine par
 JWH

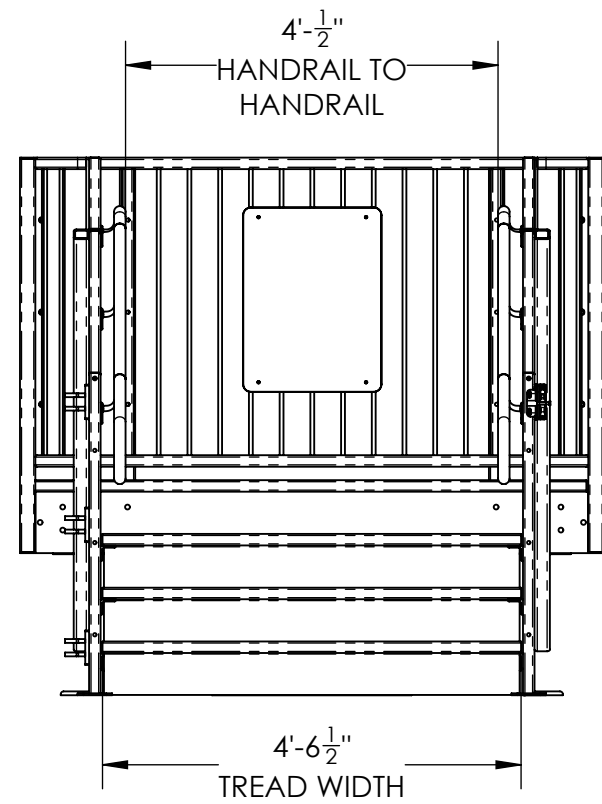
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Scale/Echelle
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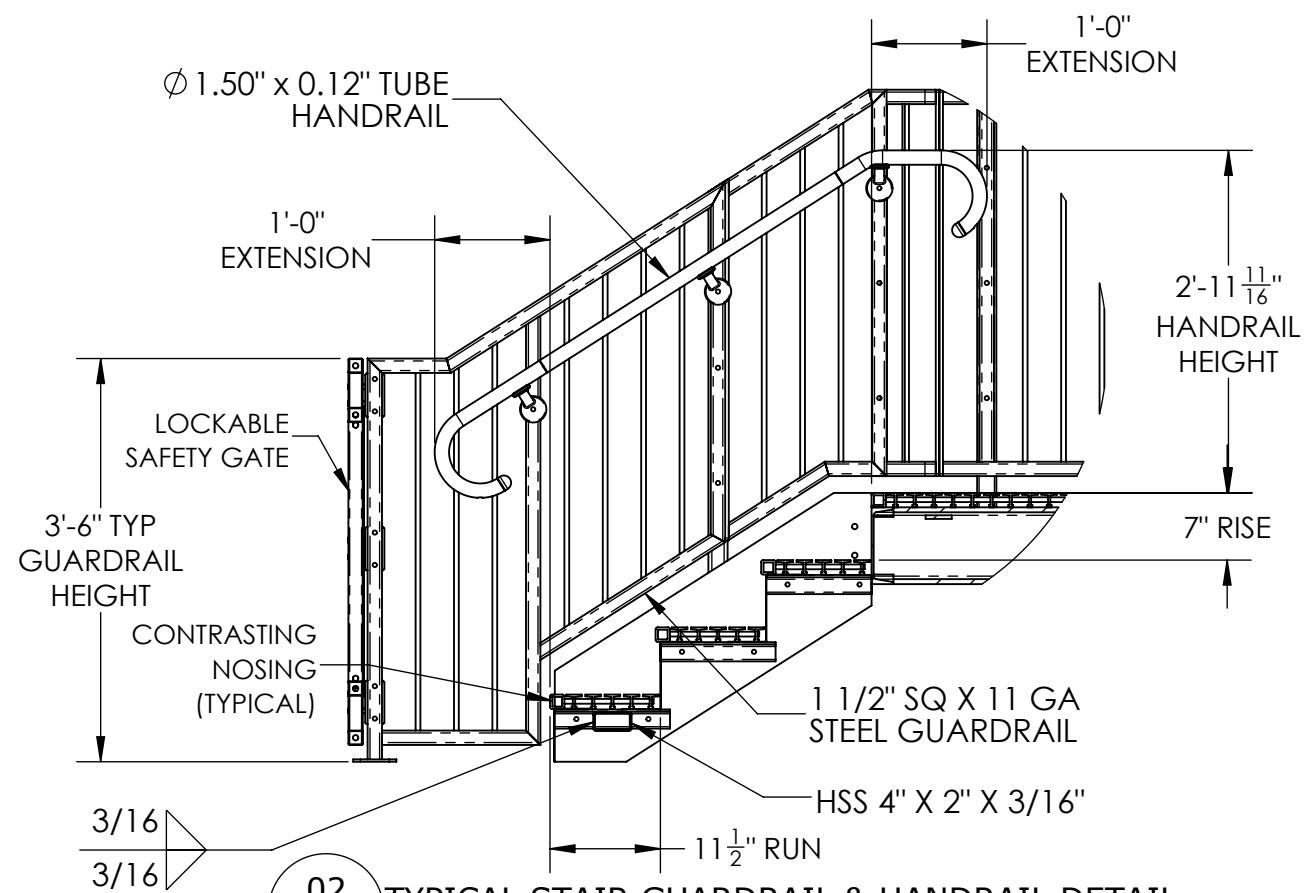
Date
 12-11-2024

Page#
 PT-01

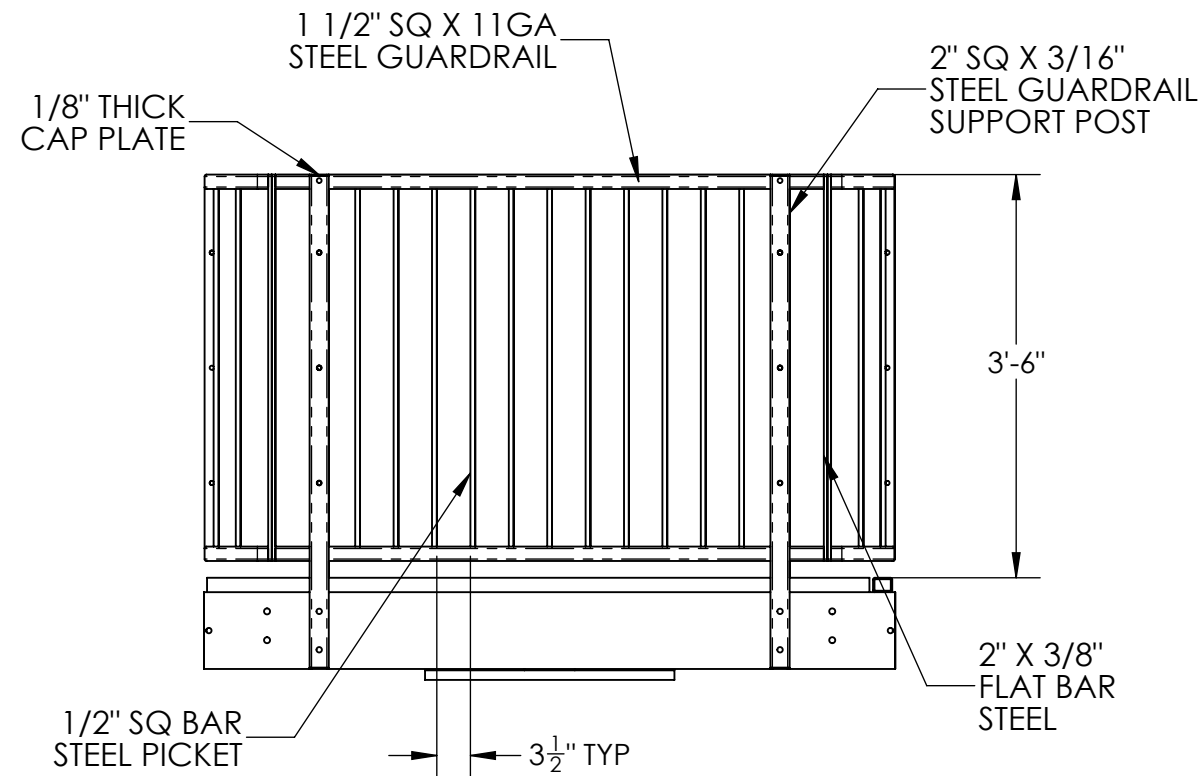
Rev.
 R00



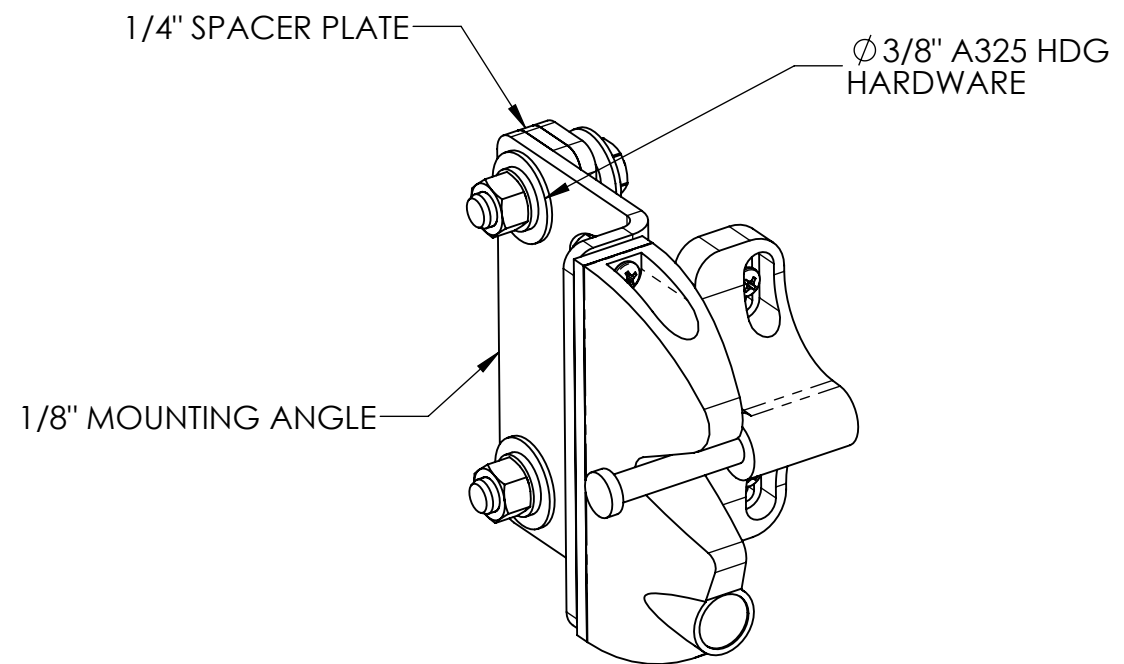
01 TYPICAL STAIR WIDTH DETAIL
PT-02



02 TYPICAL STAIR GUARDRAIL & HANDRAIL DETAIL
PT-02



03 TYPICAL PLATFORM GUARDRAIL DETAIL
PT-02



04 TYPICAL STAIR GATE LOCK ASSEMBLY DETAIL
PT-02

Seal / Sceau

Project Location / Lieu du Projet
Mentor, OH

Project Number / Numero de Projet
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Order Number / Numero d'Ordre

DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
PLATFORM & STAIRWAY
TYPICAL DETAILS

Drawn by/Dessine par
JWH

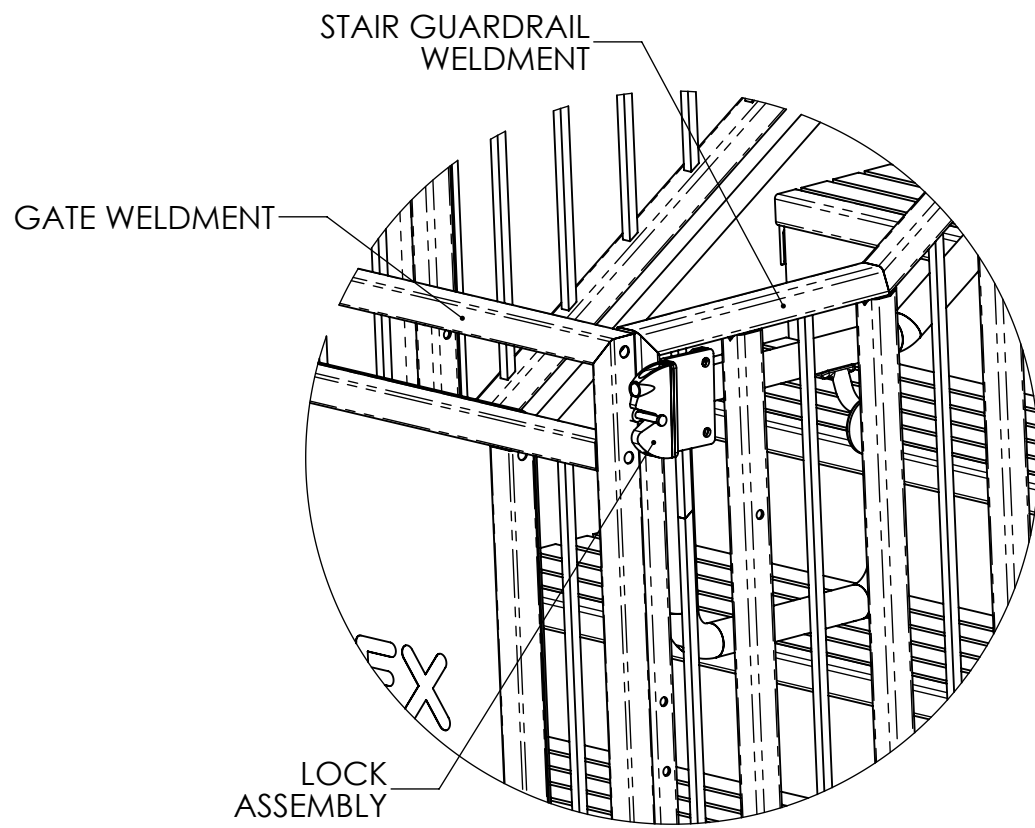
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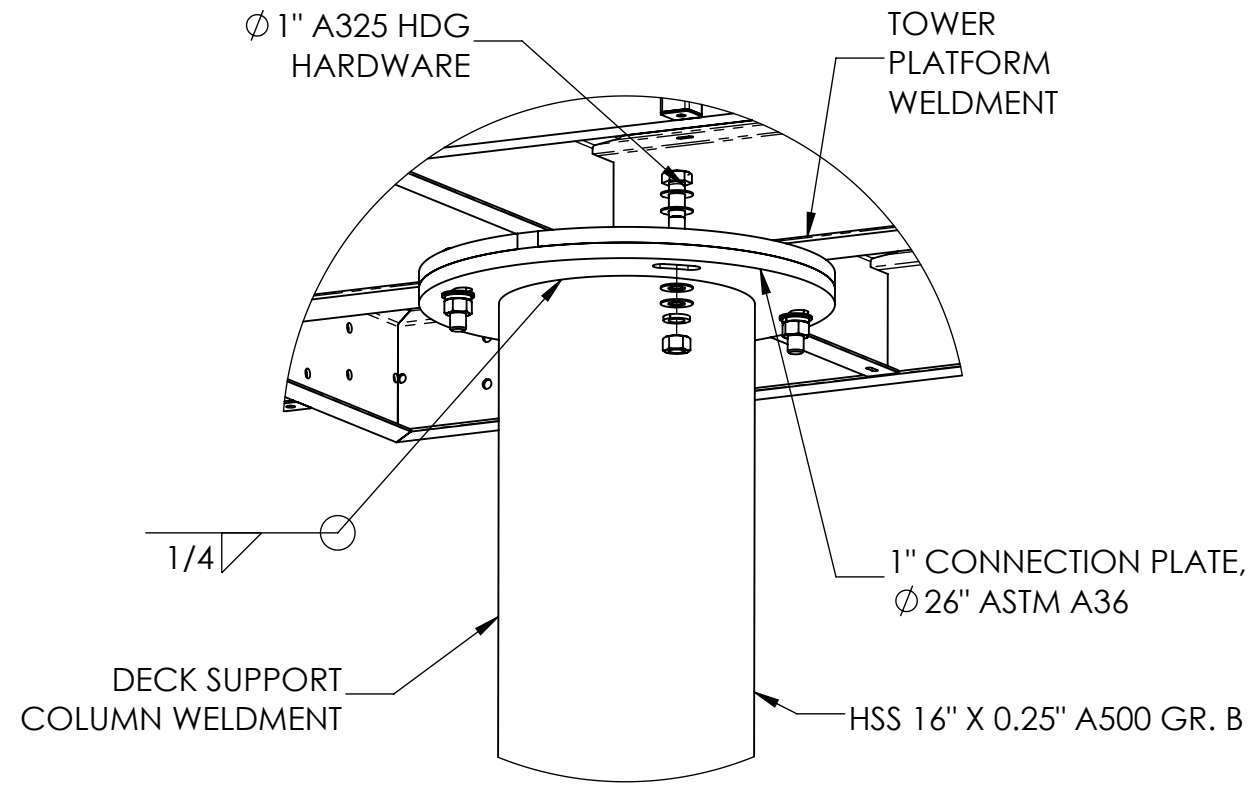
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Page#
PT-02

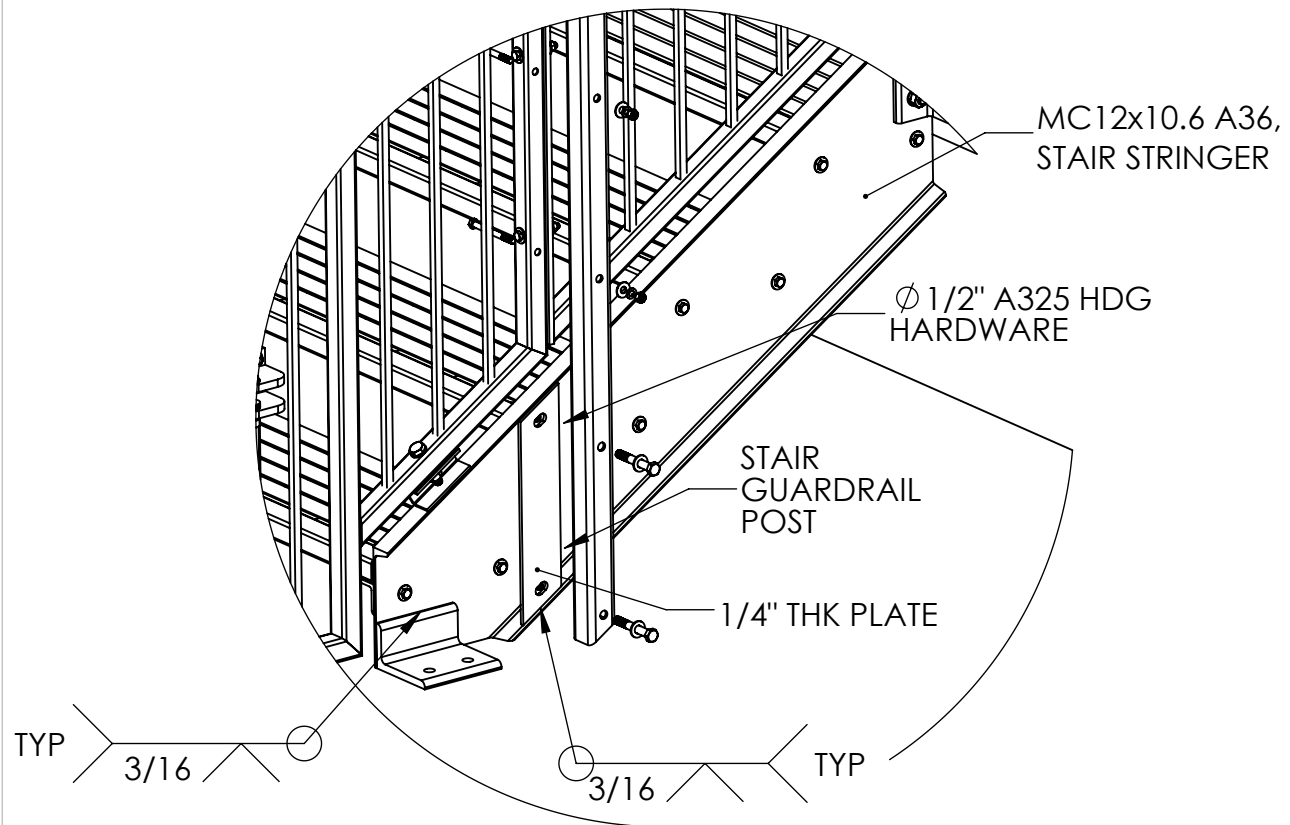
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R00



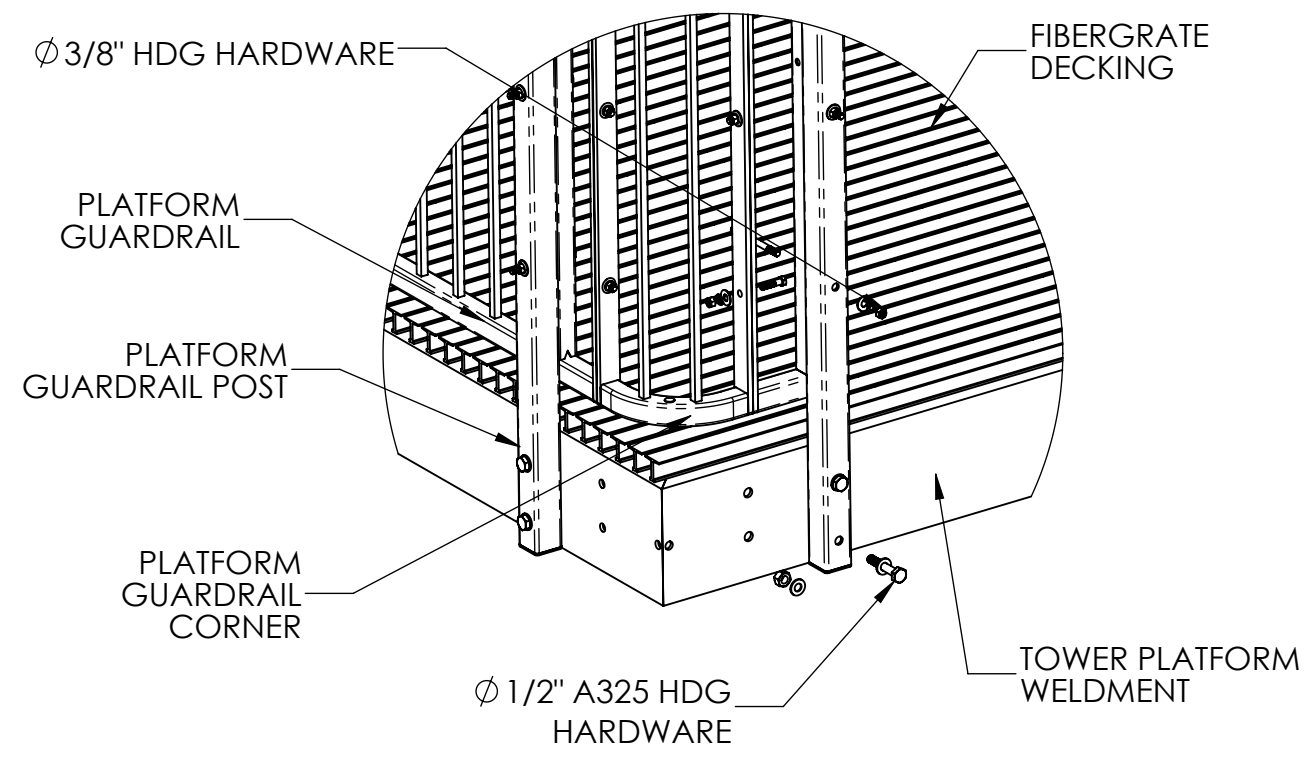
01 TYPICAL STAIR GATE AND LOCK DETAIL
 PT-03



02 TYPICAL PLATFORM COLUMN CONNECTION PLATE DETAIL
 PT-03

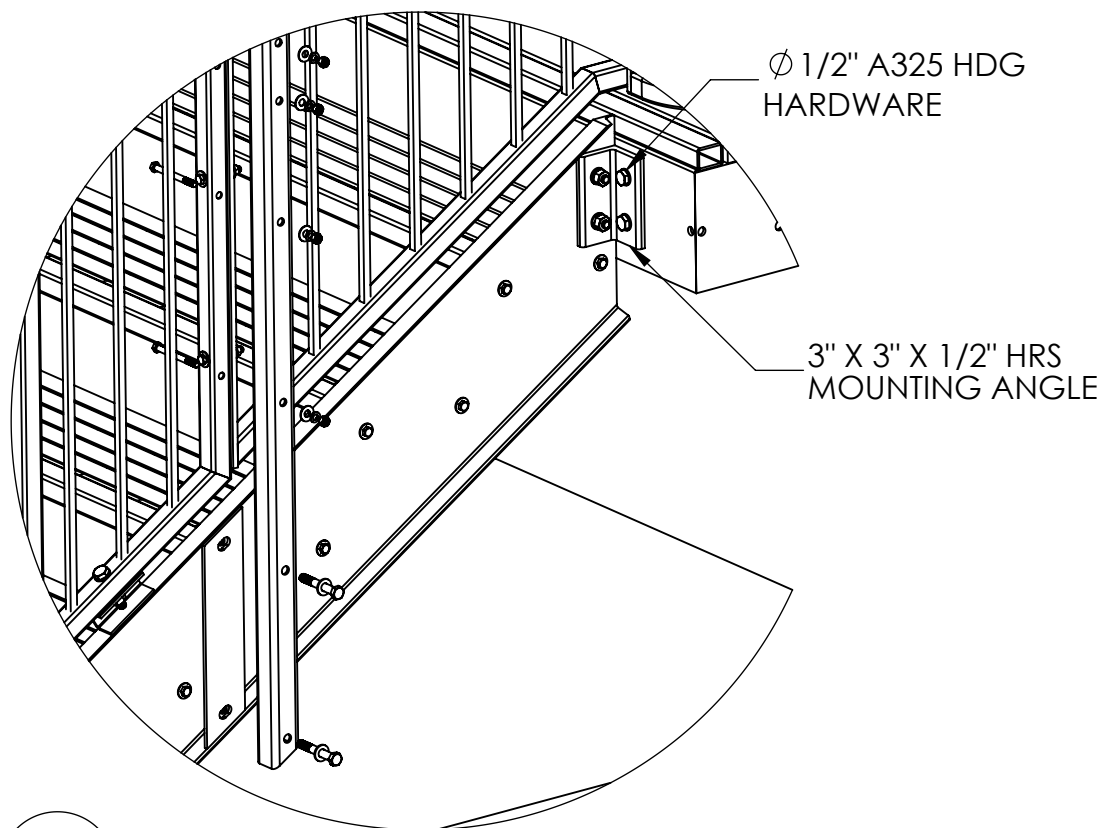


03 TYPICAL GUARDRAIL POST TO STAIR CONNECTION DETAIL
 PT-03

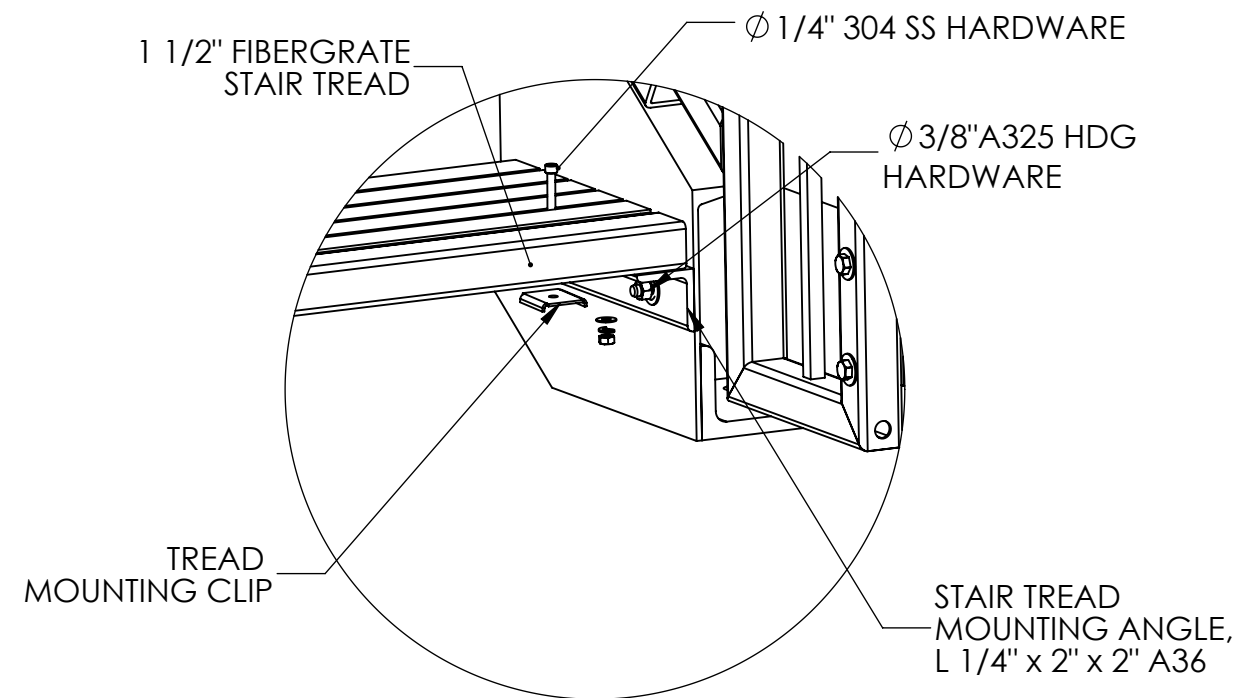


04 TYPICAL GUARDRAIL TO PLATFORM POST AND GUARDRAIL TO GUARDRAIL DETAIL
 PT-03

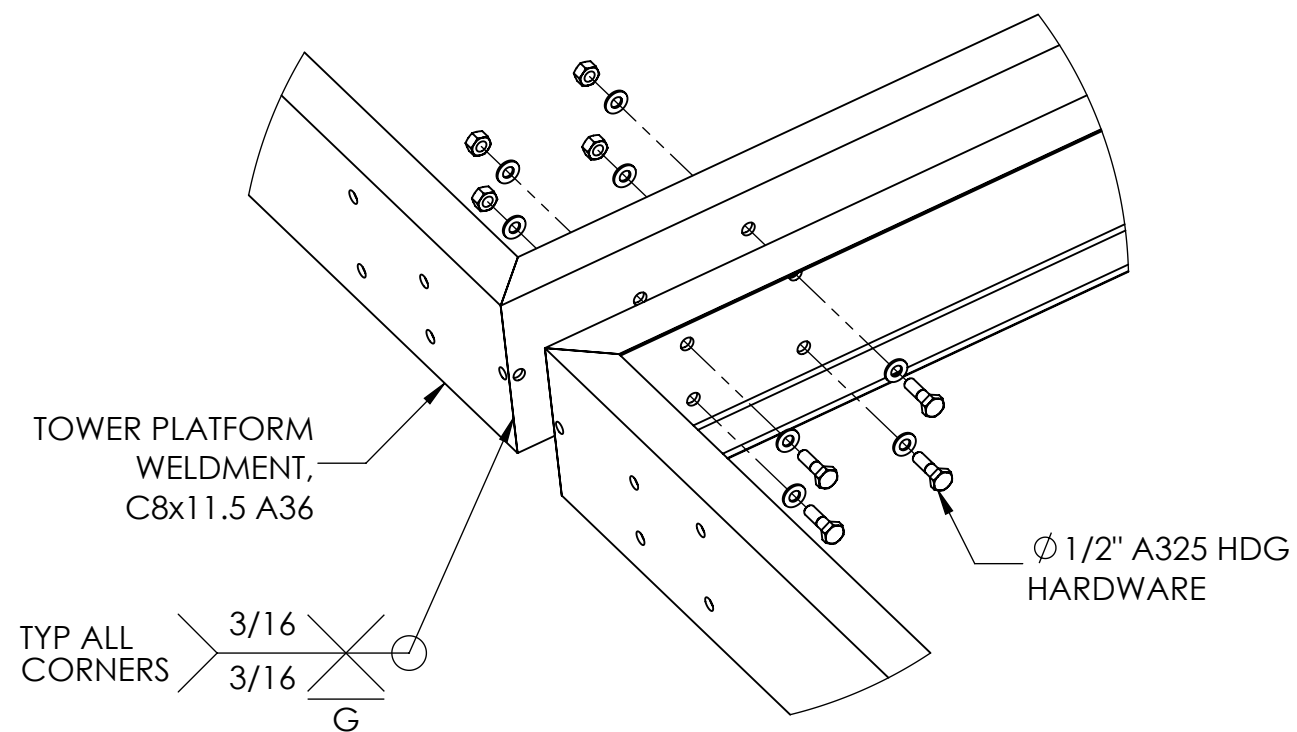
Seal / Sceau		
Project Location / Lieu du Projet Mentor, OH		
Project Number / Numero de Projet 42612		
Order Number / Numero d'Ordre		
DATE	Revision Description	No. By/Par
Drawing Title / Titre du Dessin PLATFORM & STAIRWAY TYPICAL DETAILS		
Drawn by/Dessiné par JWH	Verified by/Verifié par	
Scale/Echelle N/A	Date 12-11-2024	
Page# PT-03	Rev. R00	



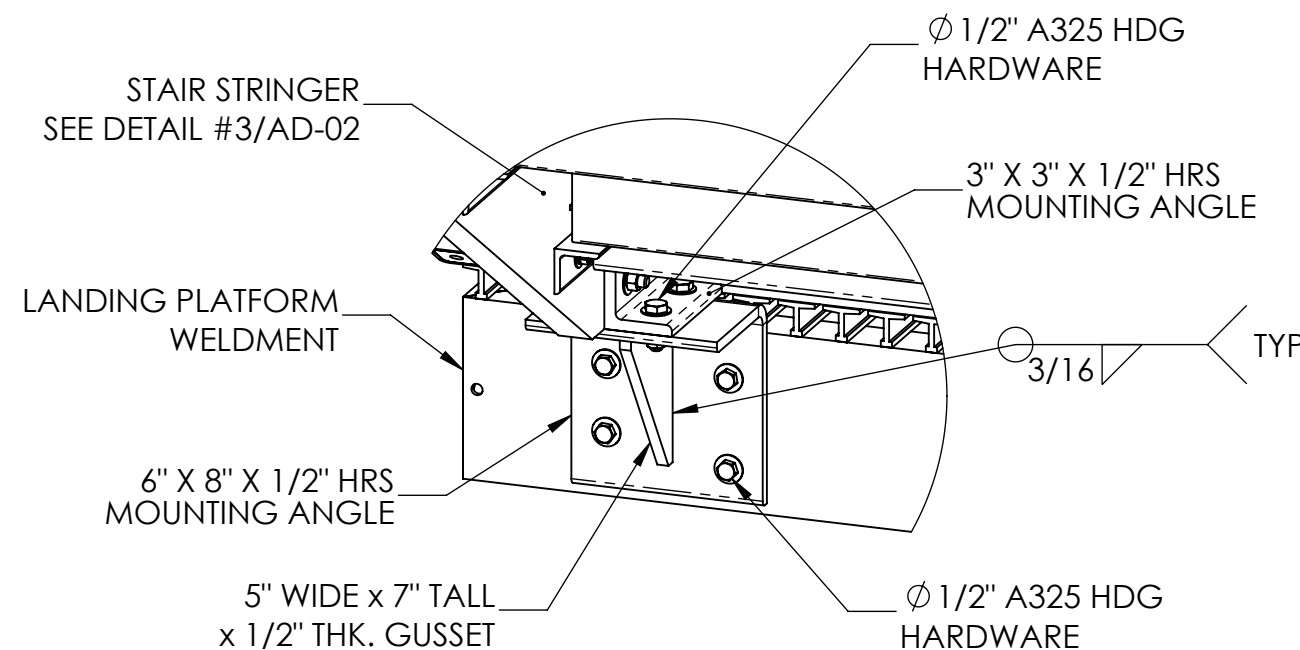
01 STAIR STRINGER TO PLATFORM DETAIL
PT-04



02 TYPICAL TREAD TO STAIR STRINGER DETAIL
PT-04



03 TYPICAL PLATFORM ASSEMBLY
PT-04



04 STAIR STRINGER TO LANDING DETAIL
PT-04

Seal / Sceau

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Project Number / Numero de Projet
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Order Number / Numero d'Ordre

DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
**PLATFORM & STAIRWAY
TYPICAL DETAILS**

Drawn by/Dessine par
JWH

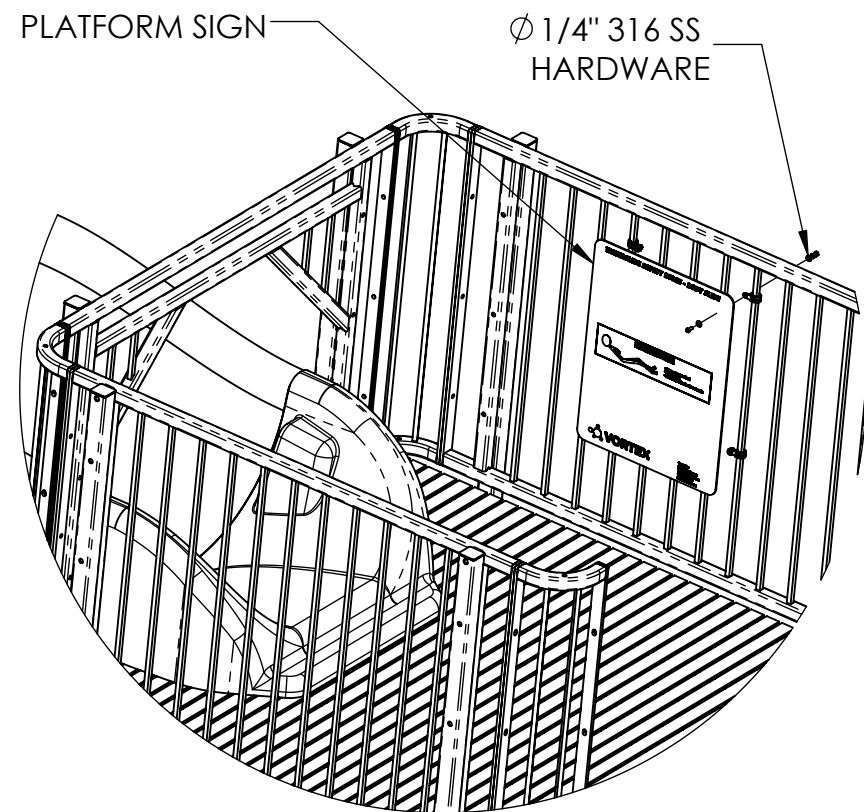
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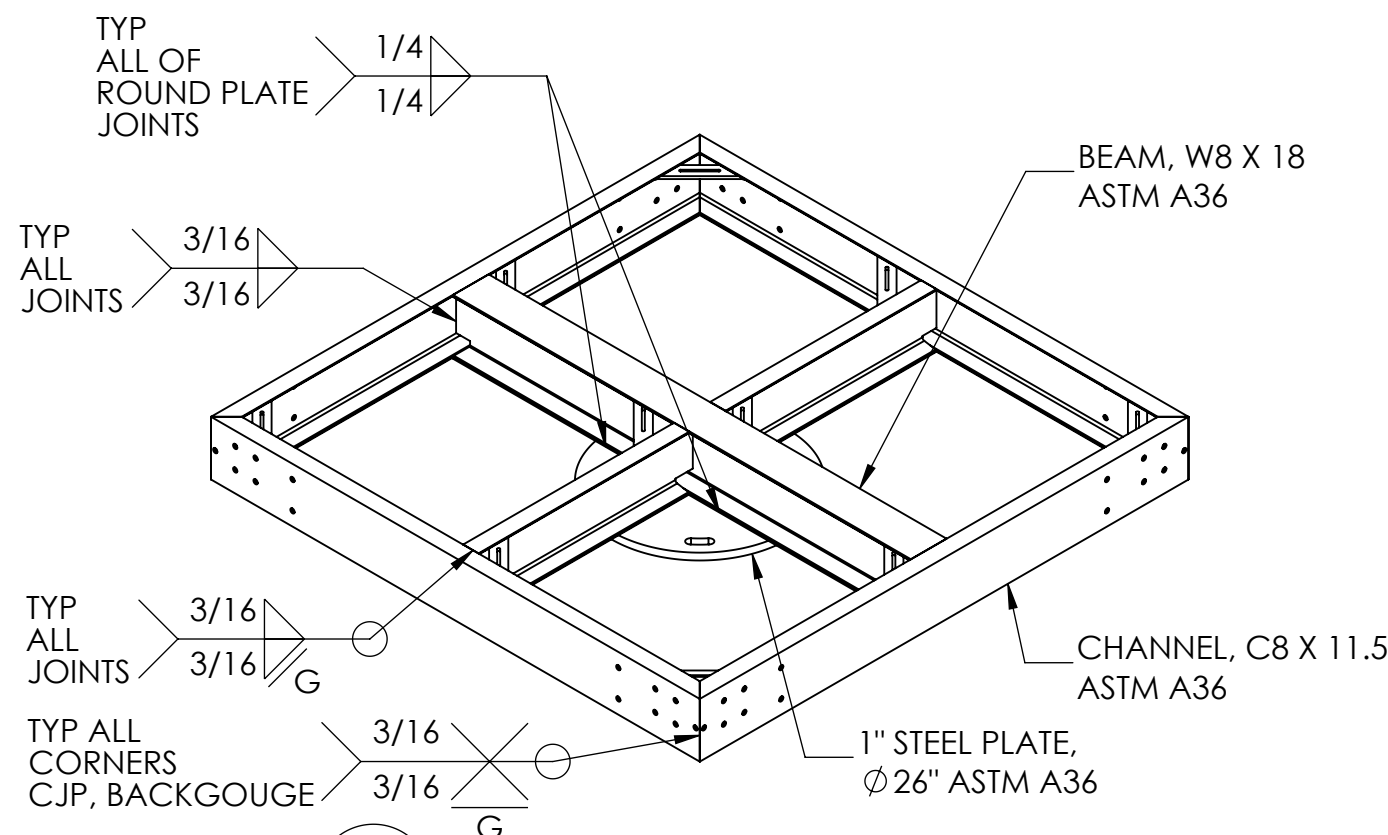
Date
12-11-2024

Page#
PT-04

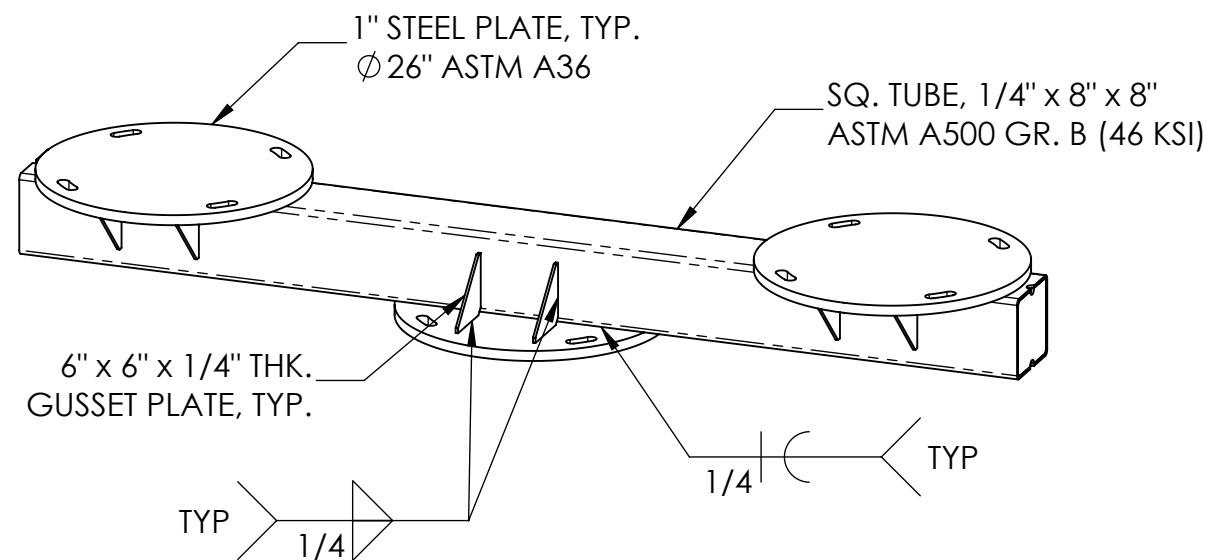
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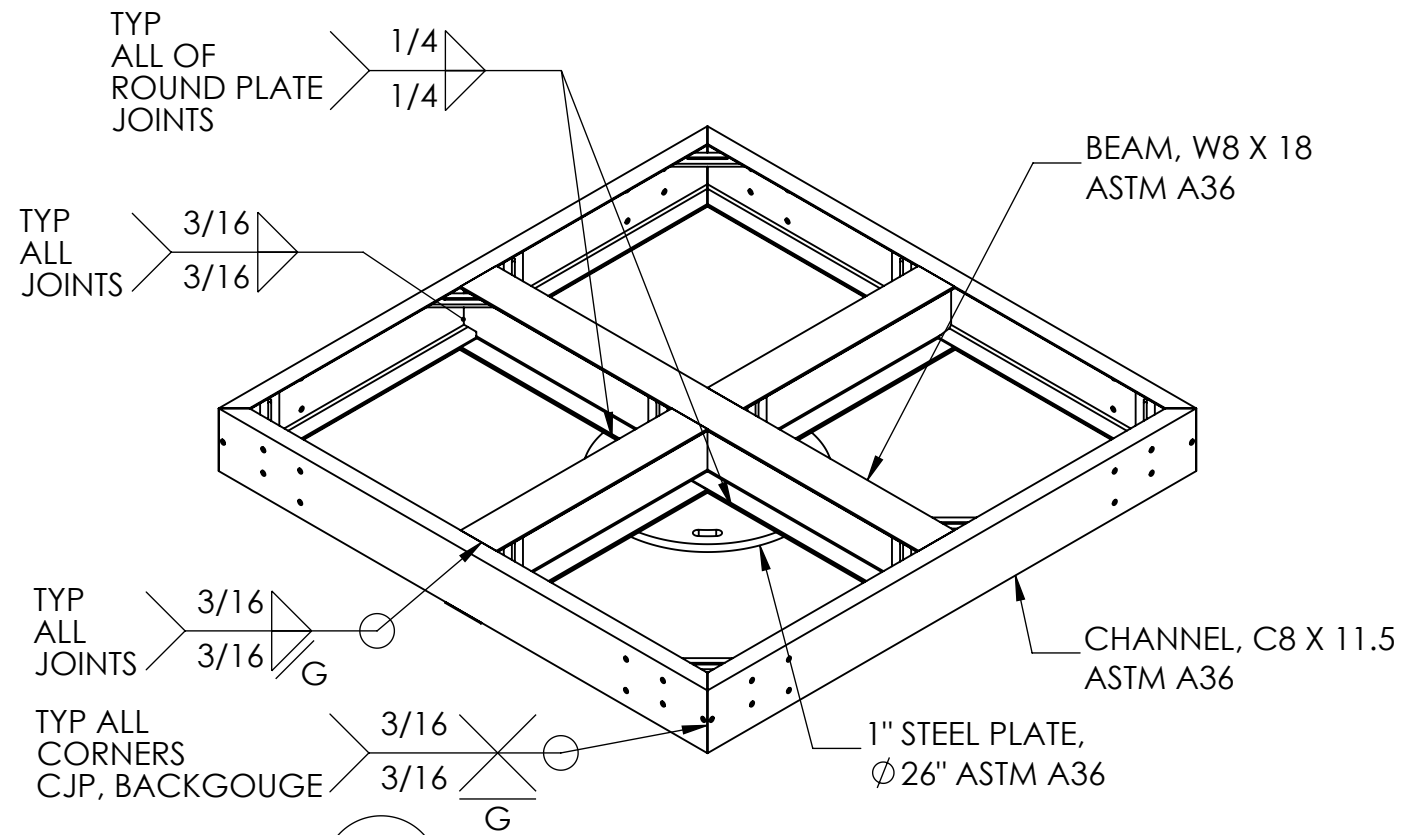
01 TYPICAL PLATFORM SAFETY SIGNAGE DETAIL
 PT-05



02 TYPICAL WELDED DECK FRAME DETAIL
 PT-05



03 TYPICAL WELDED PLATFORM BEAM DETAIL
 PT-05



04 TYPICAL WELDED LANDING DECK FRAME DETAIL
 PT-05

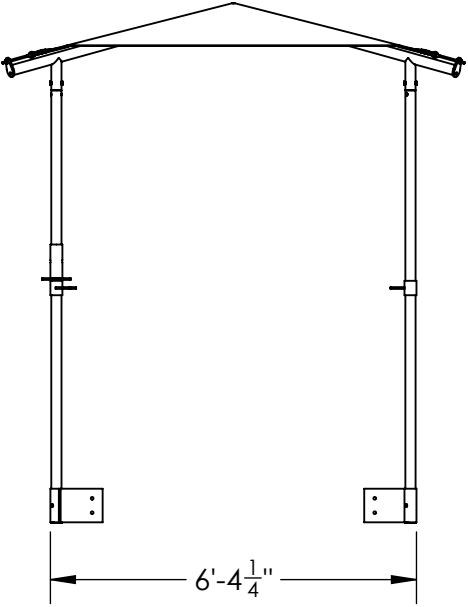
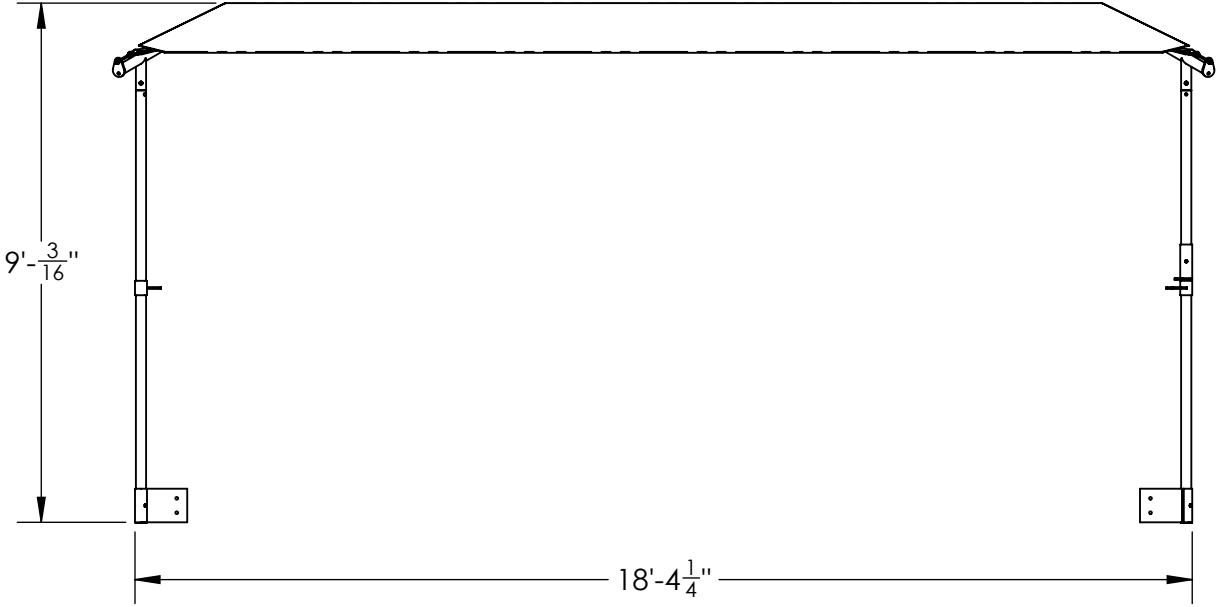
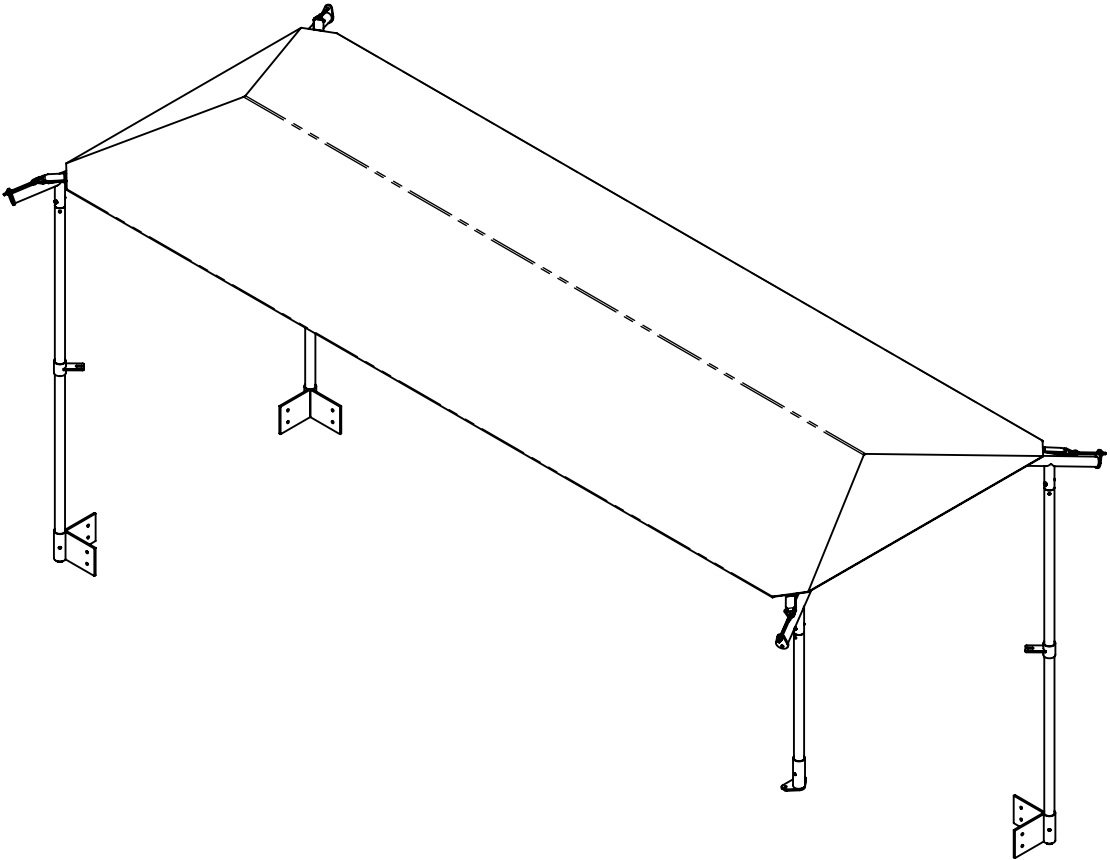
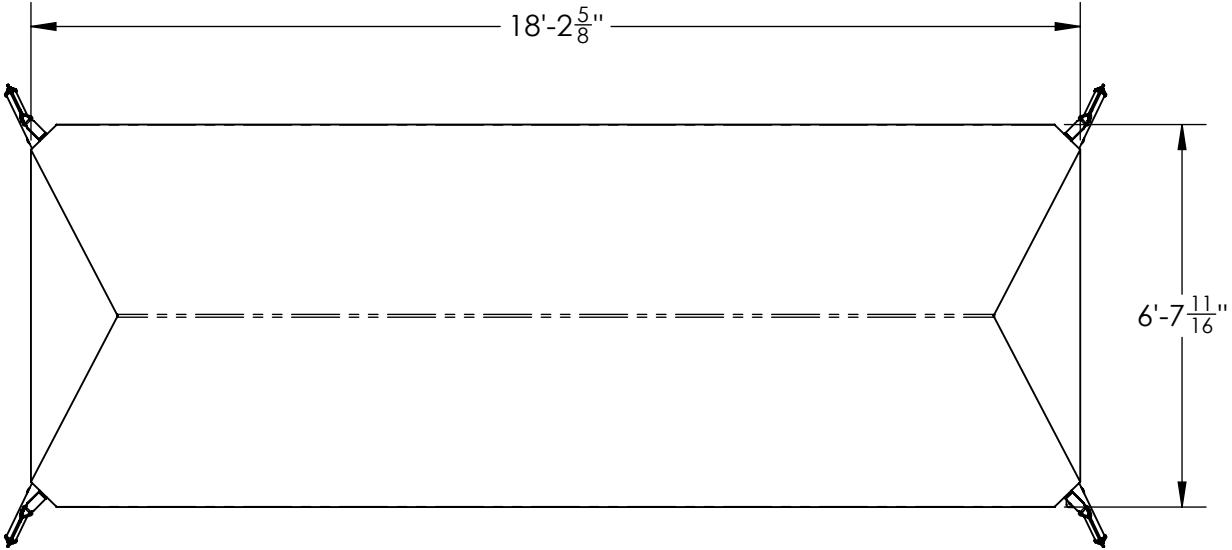
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Project Location / Lieu du Projet Mentor, OH		
Project Number / Numero de Projet 42612		
Order Number / Numero d'Ordre		
DATE	Revision Description	No. By/Par
Drawing Title / Titre du Dessin PLATFORM & STAIRWAY TYPICAL DETAILS		
Drawn by/Dessine par JWH	Verified by/Verifie par	
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Page# PT-05	Rev. R00	

SEE CT-02 & CT-03 FOR CANOPY TYPICAL DETAILS



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City of Mentor

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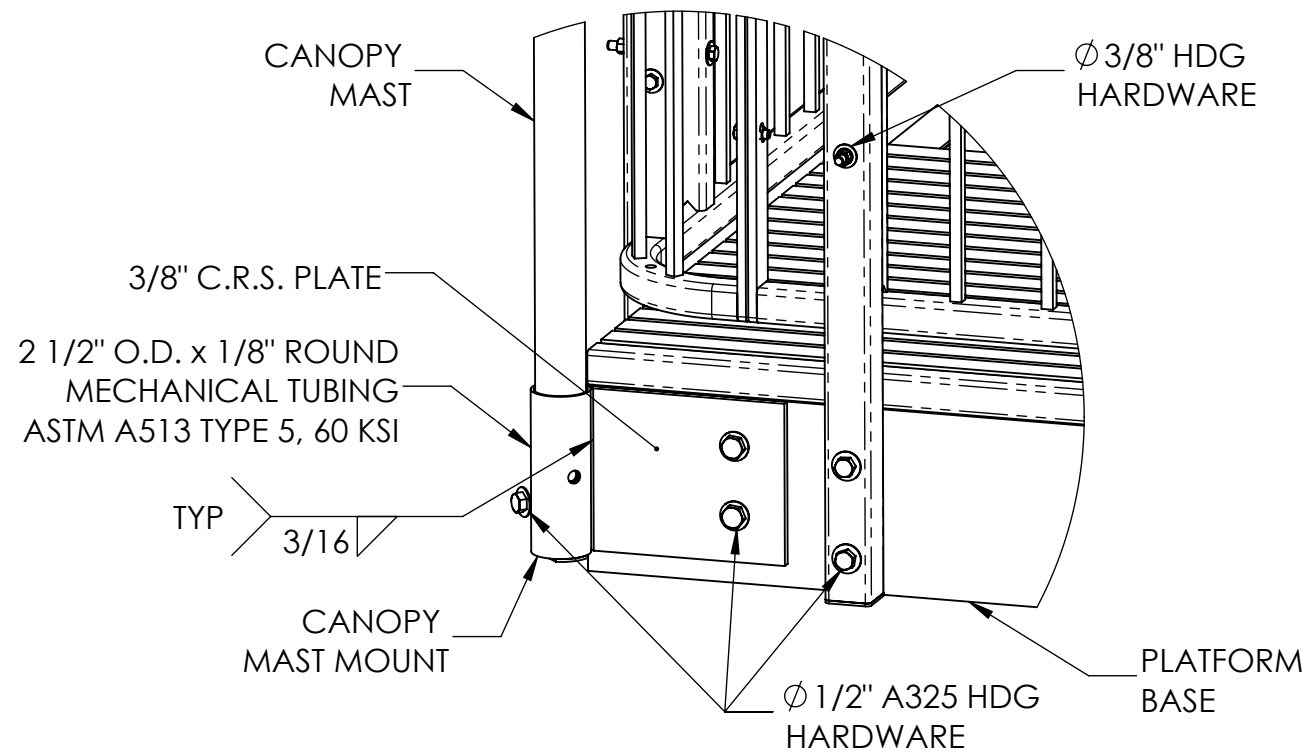
Project Number / Numero de Projet
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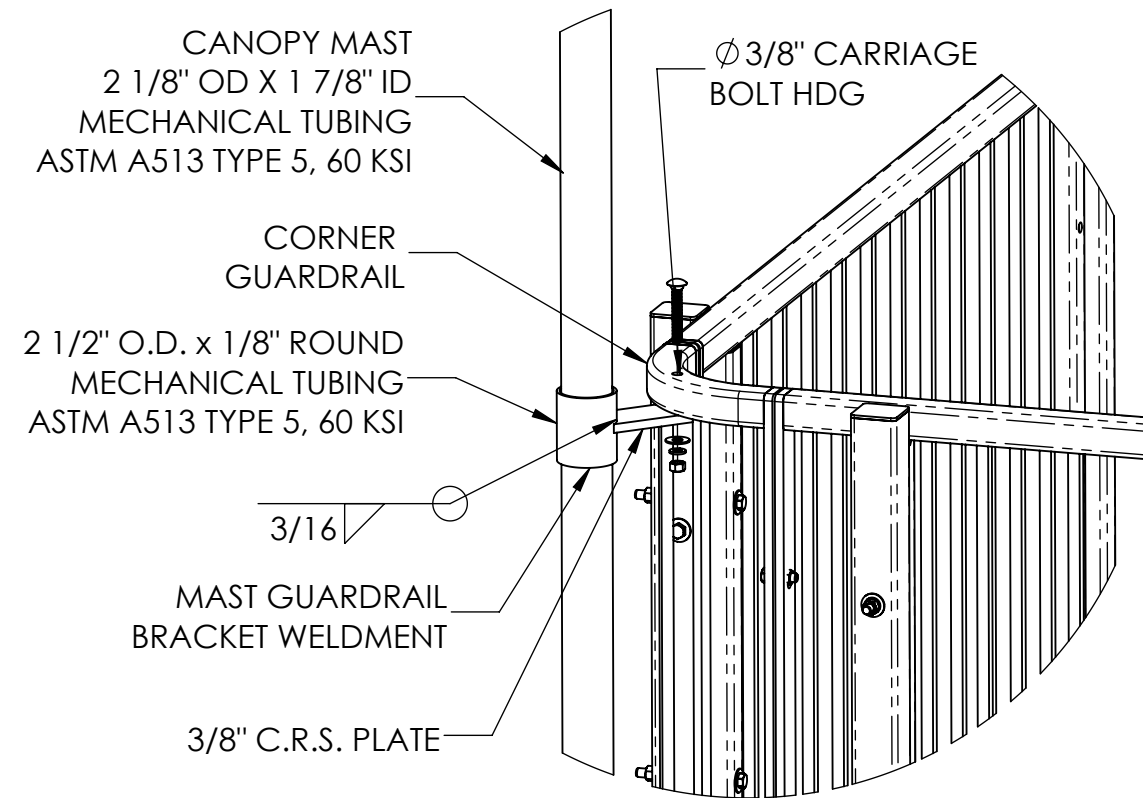
DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
CANOPY ASSEMBLY

Drawn by/Dessine par JWH	Verified by/Verifie par
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Page# CT-01	Rev. R00

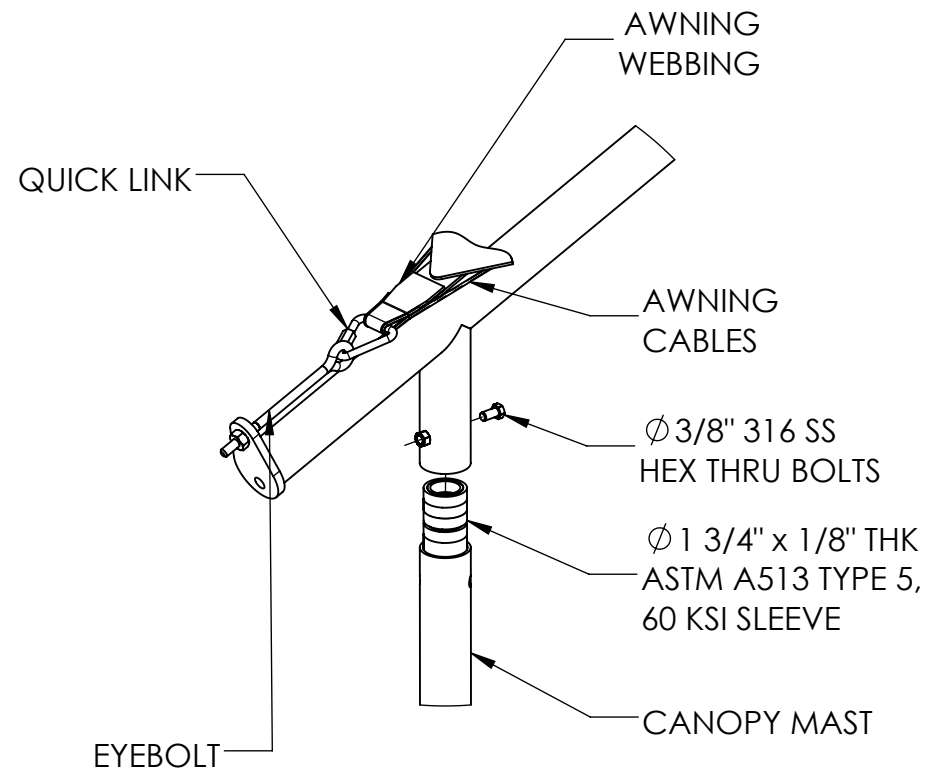


01
 CT-02
 TYPICAL CANOPY CORNER BASE TO PLATFORM ATTACHMENT DETAIL

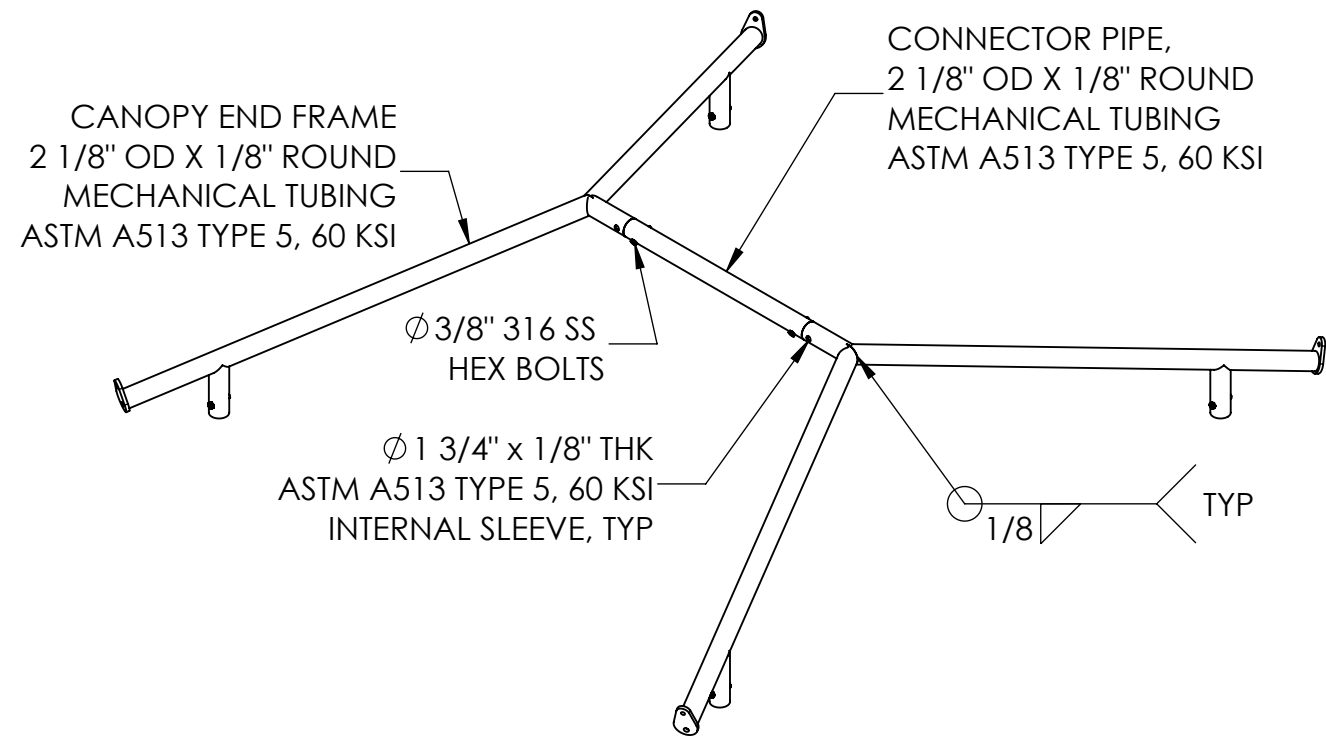


NOTE: VERIFY TIGHT FIT AT SLEEVE CONNECTION. SHIM AS REQUIRED

02
 CT-02
 TYPICAL CANOPY BRACKET TO GUARDRAIL ATTACHMENT DETAIL



03
 CT-02
 TYPICAL CANOPY FRAME TO MAST ATTACHMENT DETAIL



04
 CT-02
 TYPICAL CANOPY FRAME DETAIL

Seal / Sceau

Project Location / Lieu du Projet
 Mentor, OH

Project Number / Numero de Projet
 42612

Order Number / Numero d'Ordre

DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
CANOPY TYPICAL DETAILS

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Page# CT-02	Rev. R00



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City of Mentor

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42612

Order Number / Numero d'Ordre

DATE	Revision Description	No.	By/Par

Drawing Title / Titre du Dessin

CANOPY TYPICAL
DETAILS

Drawn by/Dessine par
JWH

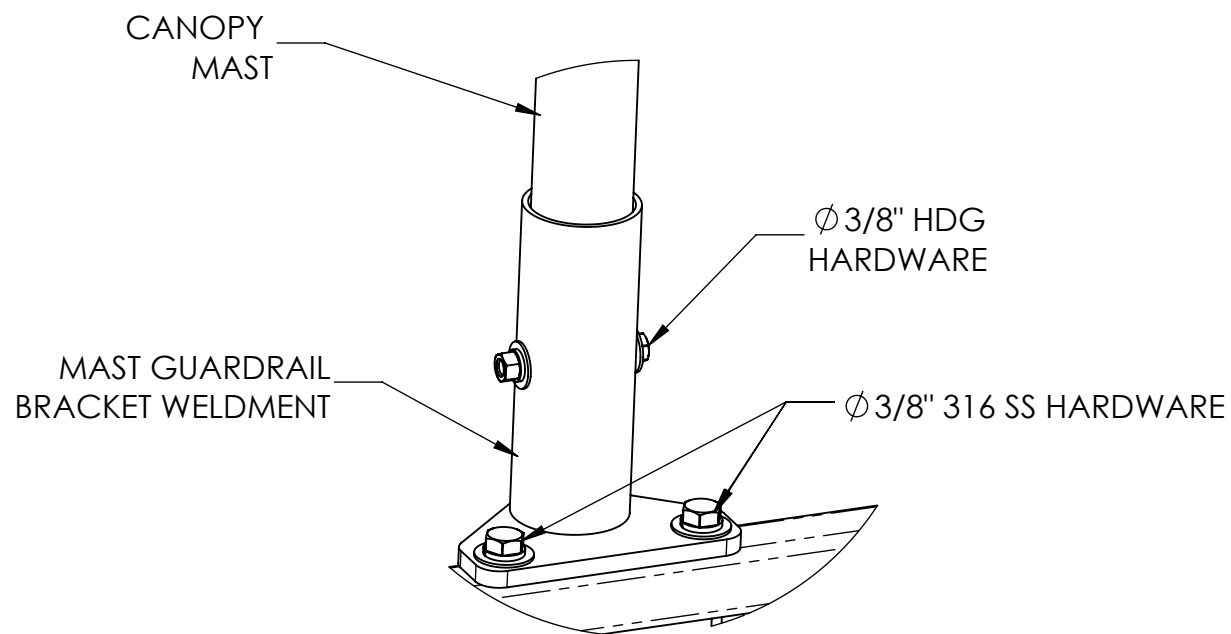
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Scale/Echelle
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Date
12-11-2024

Page#
CT-03

Rev.
R00



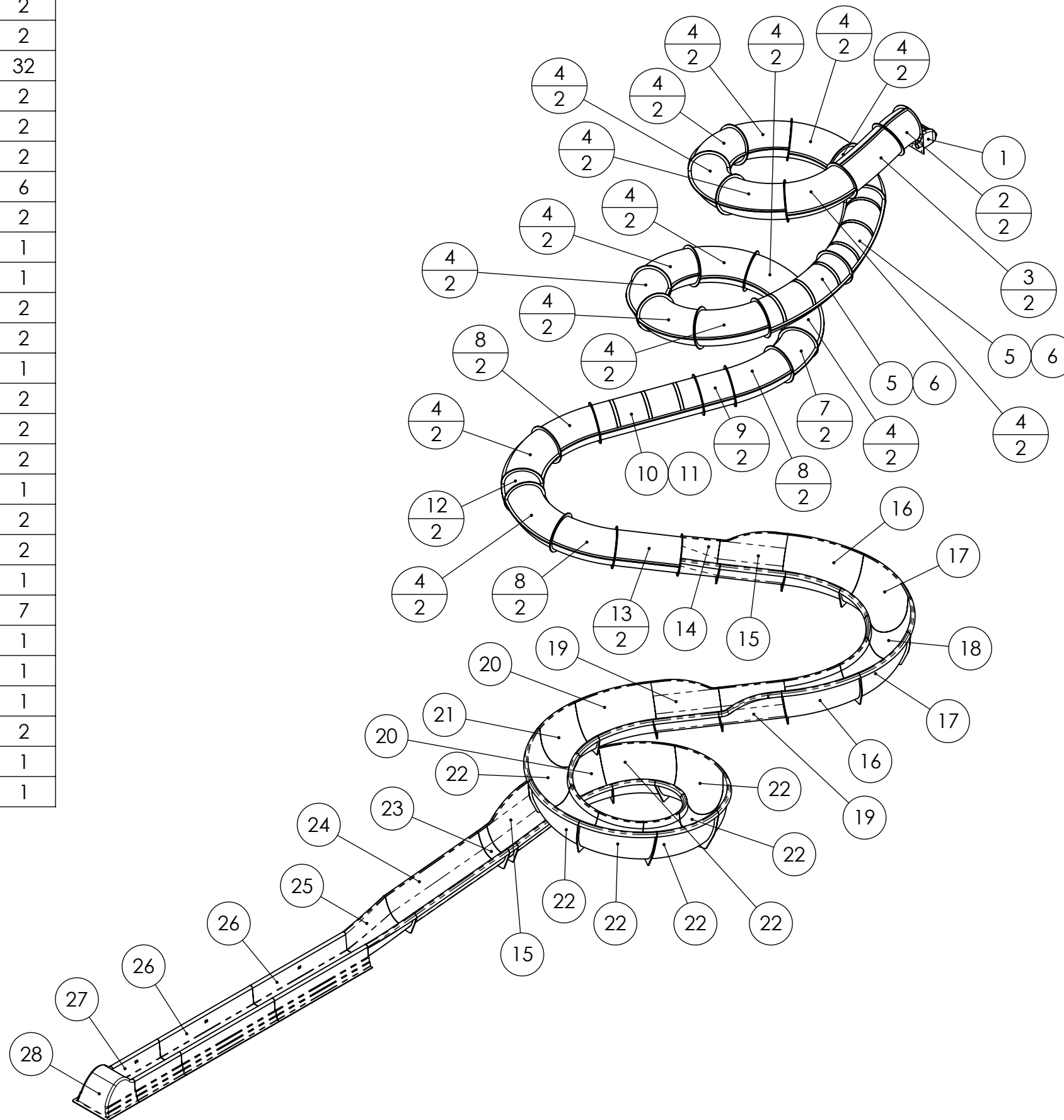
01 TYPICAL CANOPY MAST TO TOP OF
 CT-03 GUARDRAIL ATTACHMENT DETAIL

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ITEM NO.	DESCRIPTION	QTY.
1	UNIVERSAL ENTRY 32" SLIDE	1
2	CUSTOM 72 INR 20 DEG	2
3	CUSTOM 9 MR 10 DEG	2
4	72 INR 45 DEG	32
5	4.5 MR 30 DEG TRANSLUCENT BANDS	2
6	4.5 MR 30 DEG	2
7	CUSTOM 72 INR 26 DEG	2
8	2.5MR 30 DEG	6
9	CUSTOM 32" STRAIGHT 30"	2
10	STD 32" STRAIGHT 98" (TRANSLUCENT BANDS)	1
11	STD 32" STRAIGHT 98"	1
12	CUSTOM 72 INR 15 DEG	2
13	CUSTOM 32" STRAIGHT 60"	2
14	32 TO 36 TRANS 0 SLP	1
15	TRANSITION RH	2
16	CUSTOM 120 INR 30 DEG 14 SLP RH	2
17	72 INR 45 DEG 14 SLP RH	2
18	CUSTOM 72 INR 30 DEG 14 SLP RH	1
19	STANDARD, 36" DIA, TRANSITION, LH	2
20	CUSTOM 120 INR 30 DEG 14 SLP LH	2
21	CUSTOM 72 INR 30 DEG 14 SLP LH	1
22	72 INR 45 DEG 14 SLP LH	7
23	CUSTOM 25 FRT 2.3 DEG CONC	1
24	STRAIGHT 120" IN	1
25	TRANSITION TO RUNOUT	1
26	RUNOUT, STRAIGHT, 119.75"	2
27	CUSTOM, RUNOUT, STRAIGHT, 60"	1
28	STANDARD, 42" EXIT WEIR	1



Slide A - Closed to Open Flume PrecisionRide™ Body Slide

Seal / Sceau

Project Location / Lieu du Projet
Mentor, OH

Project Number / Numero de Projet
42612

Order Number / Numero d'Ordre

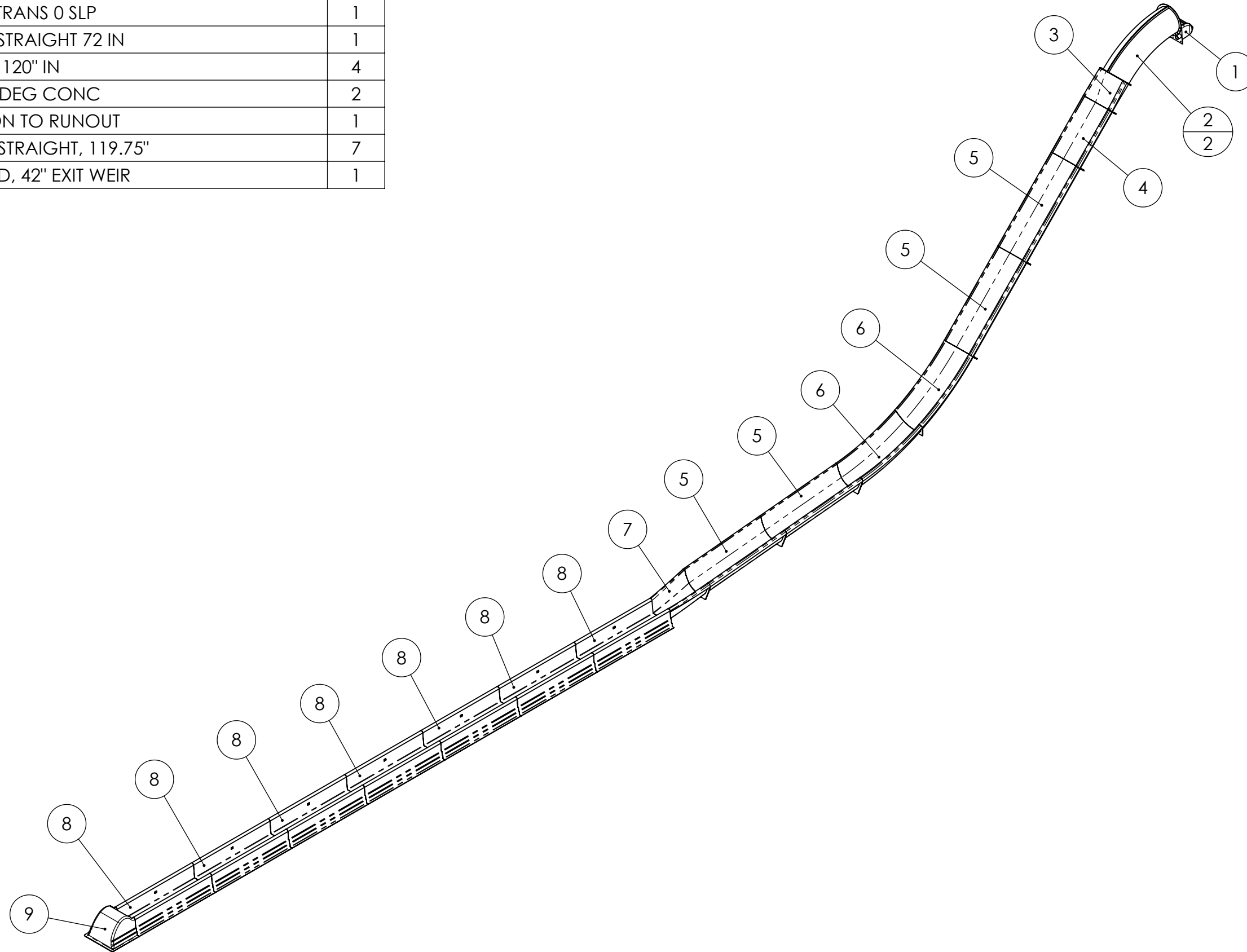
DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
FLUME LAYOUT

Drawn by/Dessine par JWH	Verified by/Verifie par
Scale/Echelle N/A	Date 12-11-2024
Page# FA-01A	Rev. R00

ITEM NO.	DESCRIPTION	QTY.
1	UNIVERSAL ENTRY 32" SLIDE	1
2	3 MR 45 DEG	2
3	32 TO 36 TRANS 0 SLP	1
4	CUSTOM STRAIGHT 72 IN	1
5	STRAIGHT 120" IN	4
6	25 FRT 20 DEG CONC	2
7	TRANSITION TO RUNOUT	1
8	RUNOUT, STRAIGHT, 119.75"	7
9	STANDARD, 42" EXIT WEIR	1

SEE FA-02 & FA-03 FOR FLUME TYPICAL DETAILS
REFER TO SLIDE SUB-ASSEMBLY DRAWING FOR CLOCKING



Slide B - Closed to Open Flume PrecisionRide™ Speed Slide

City of Mentor

Seal / Sceau

Project Location / Lieu du Projet
Mentor, OH

Project Number / Numero de Projet
42612

Order Number / Numero d'Ordre

DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
FLUME LAYOUT

Drawn by/Dessine par JWH	Verified by/Verifie par
Scale/Echelle N/A	Date 12-11-2024
Page# FA-01B	Rev. R00

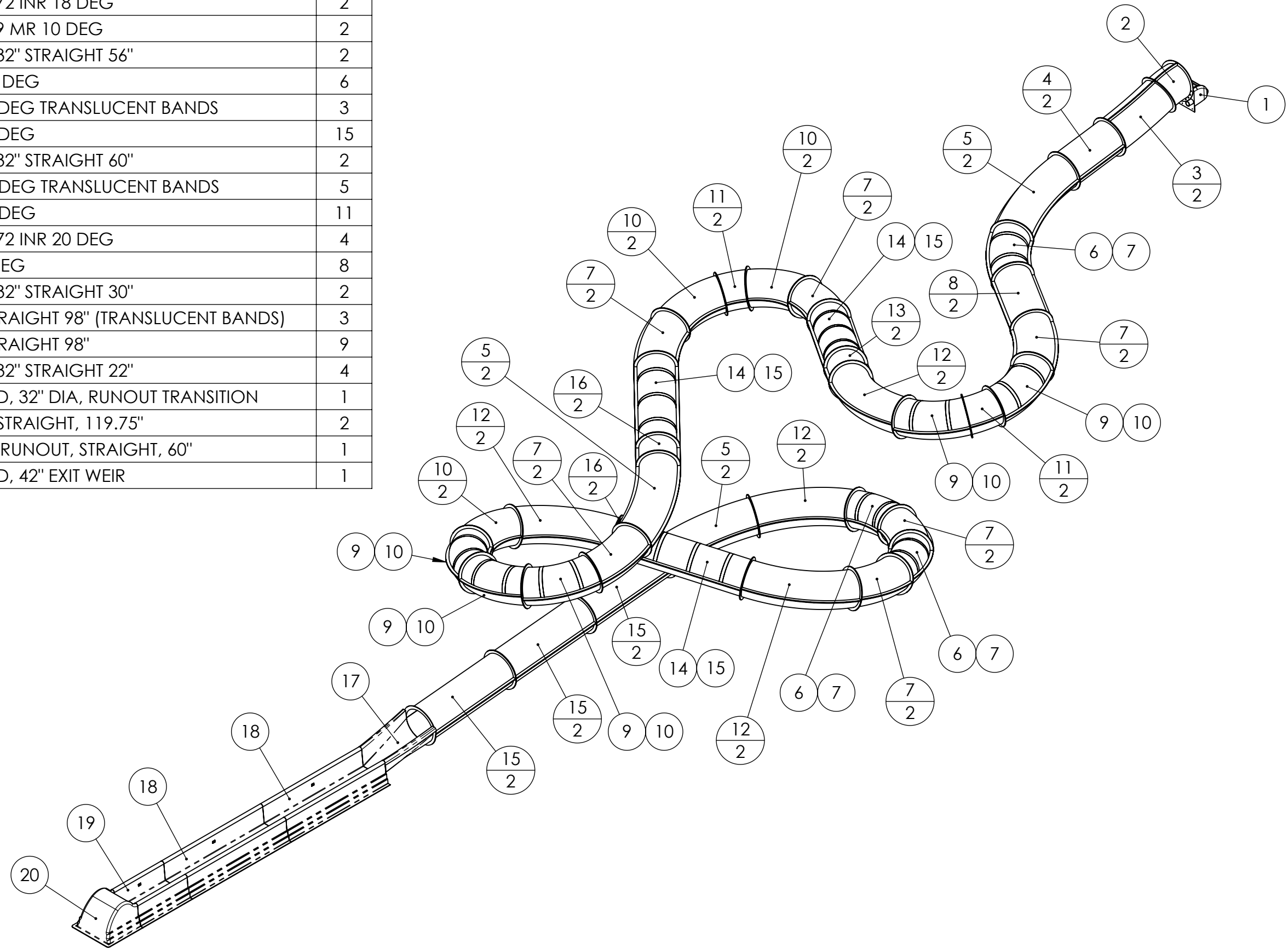
ITEM NO.	DESCRIPTION	QTY.
1	UNIVERSAL ENTRY 32" SLIDE	1
2	CUSTOM 72 INR 18 DEG	2
3	CUSTOM 9 MR 10 DEG	2
4	CUSTOM 32" STRAIGHT 56"	2
5	4.5 MR 30 DEG	6
6	2.5MR 30 DEG TRANSLUCENT BANDS	3
7	2.5MR 30 DEG	15
8	CUSTOM 32" STRAIGHT 60"	2
9	72 INR 45 DEG TRANSLUCENT BANDS	5
10	72 INR 45 DEG	11
11	CUSTOM 72 INR 20 DEG	4
12	3 MR 45 DEG	8
13	CUSTOM 32" STRAIGHT 30"	2
14	STD 32" STRAIGHT 98" (TRANSLUCENT BANDS)	3
15	STD 32" STRAIGHT 98"	9
16	CUSTOM 32" STRAIGHT 22"	4
17	STANDARD, 32" DIA, RUNOUT TRANSITION	1
18	RUNOUT, STRAIGHT, 119.75"	2
19	CUSTOM, RUNOUT, STRAIGHT, 60"	1
20	STANDARD, 42" EXIT WEIR	1

SEE FA-02 & FA-03 FOR FLUME TYPICAL DETAILS
REFER TO SLIDE SUB-ASSEMBLY DRAWING FOR CLOCKING

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VORTEX AQUATIC STRUCTURES INTERNATIONAL
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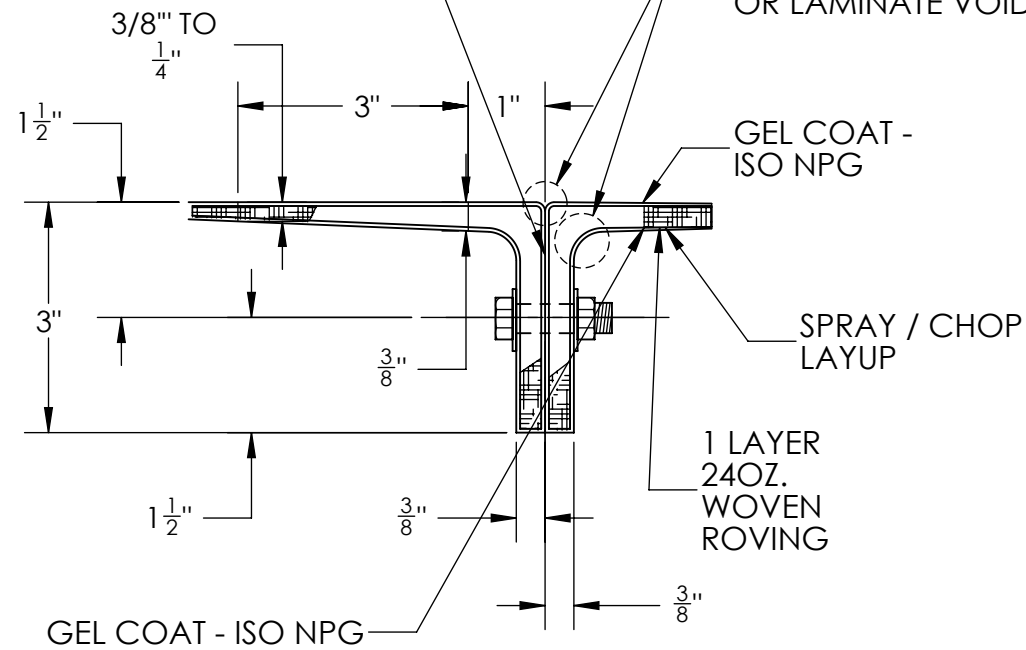
City of Mentor



Slide C - Closed Flume PrecisionRide™ Body Slide

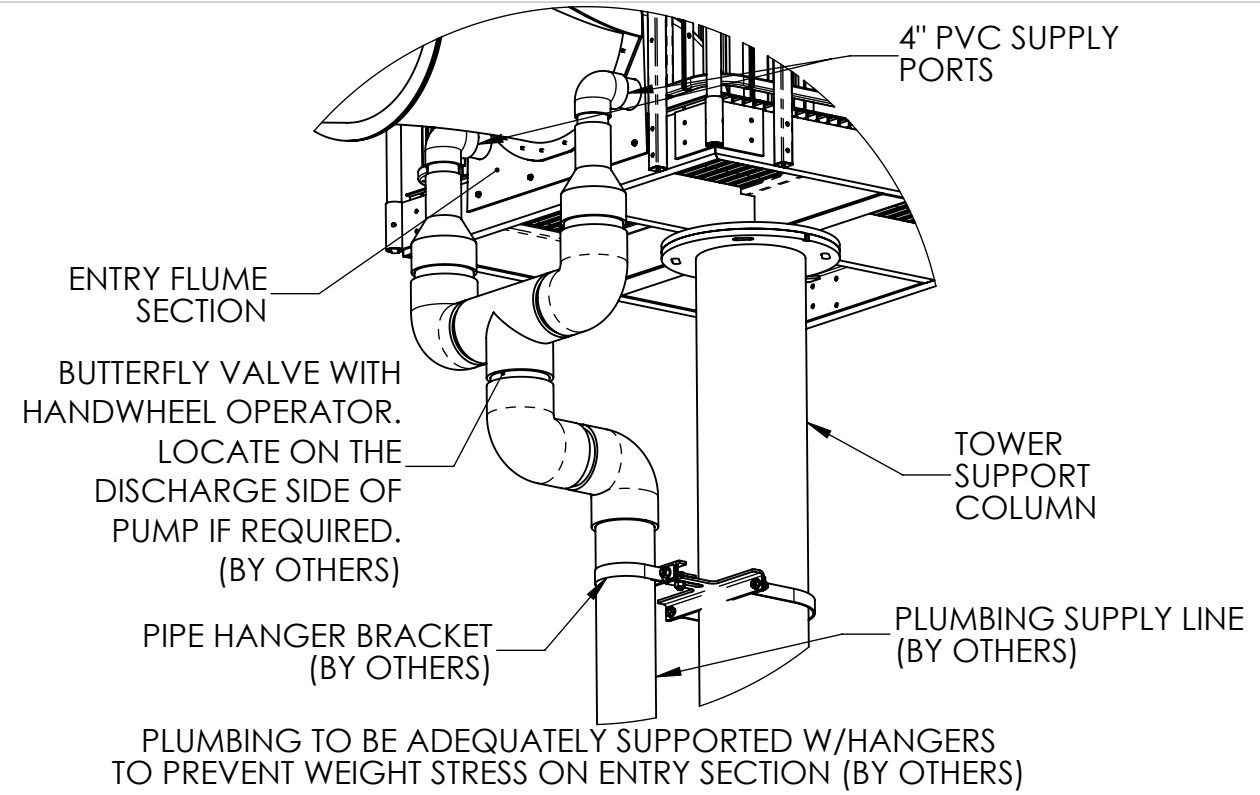
Seal / Sceau		
Project Location / Lieu du Projet Mentor, OH		
Project Number / Numero de Projet 42612		
Order Number / Numero d'Ordre		
DATE	Revision Description	No. By/Par
Drawing Title / Titre du Dessin FLUME LAYOUT		
Drawn by/Dessine par JWH	Verified by/Verifie par	
Scale/Echelle N/A	Date 12-11-2024	
Page# FA-01C	Rev. R00	

ADD BEAD OF SIKAFLEX IN BETWEEN ALL FLANGE JOINTS (BY INSTALLER)

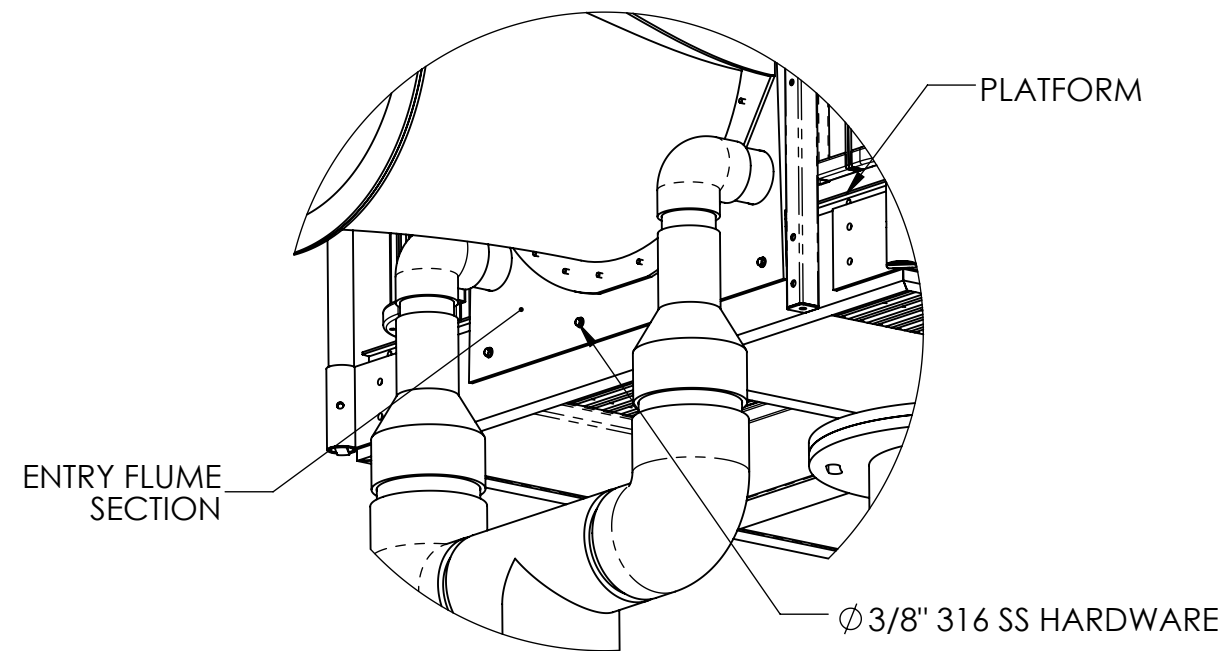


IT SHOULD BE RECOGNIZED THAT THESE AREAS ARE PARTICULARLY SUSCEPTIBLE TO GEL COAT BLISTERS AND OR LAMINATE VOIDS.

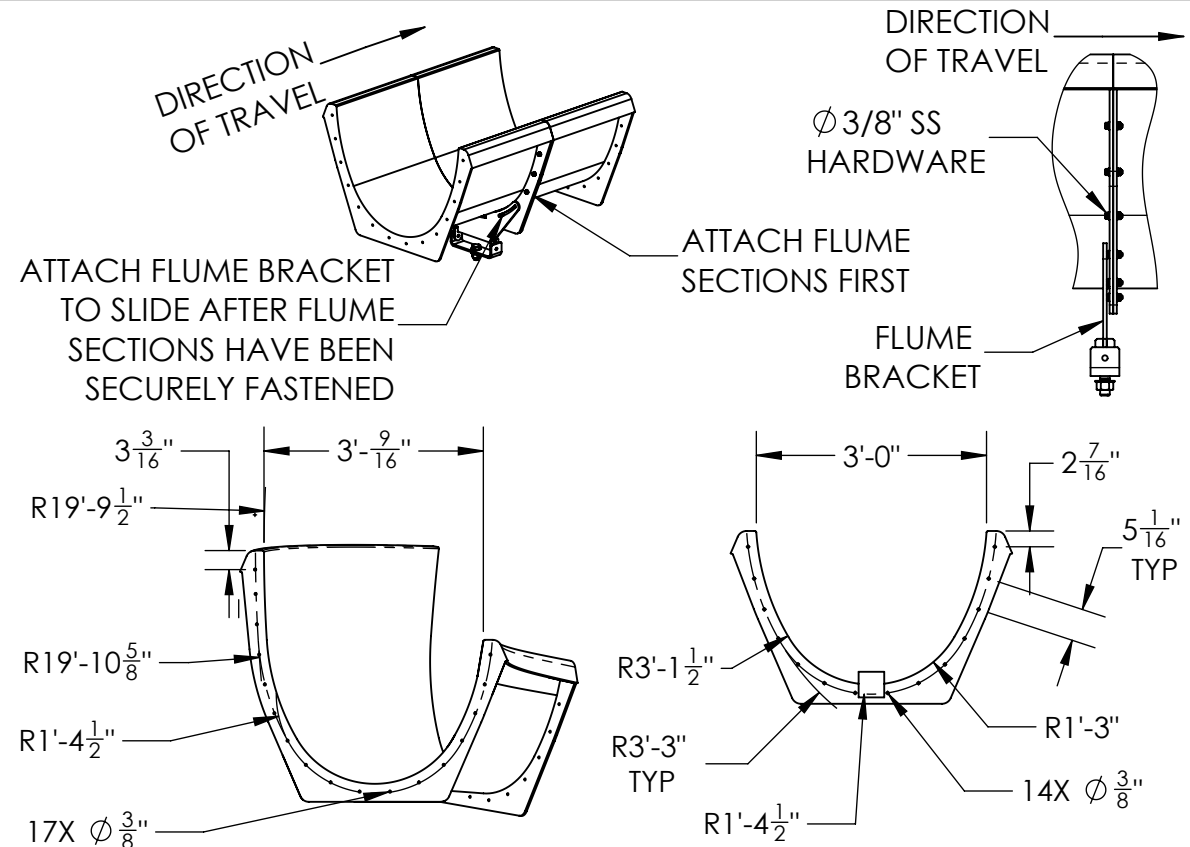
01 TYPICAL FLUME JOINT DETAIL
FA-02



02 TYPICAL FLUME PLUMBING CONNECTION DETAIL
FA-02



03 TYPICAL FLUME ENTRY TO DECK DETAIL
FA-02



04 TYPICAL OPEN FLUME PRECISIONRIDE DRILL & ATTACHMENT DETAIL
FA-02

Seal / Sceau

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DATE	Revision Description	No. By/Par

Drawing Title / Titre du Dessin
FLUME TYPICAL DETAILS

Drawn by/Dessine par
JWH

Verified by/Verifie par

Scale/Echelle
N/A

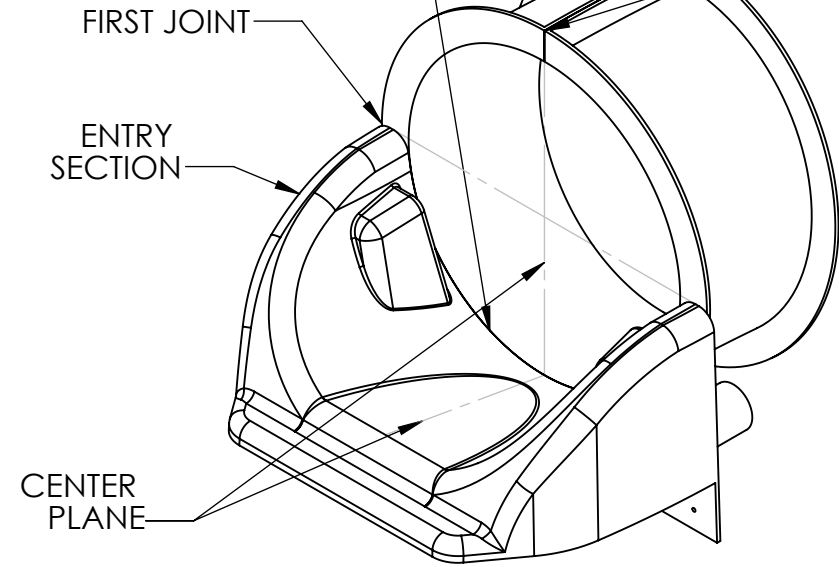
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12-11-2024

Page#
FA-02

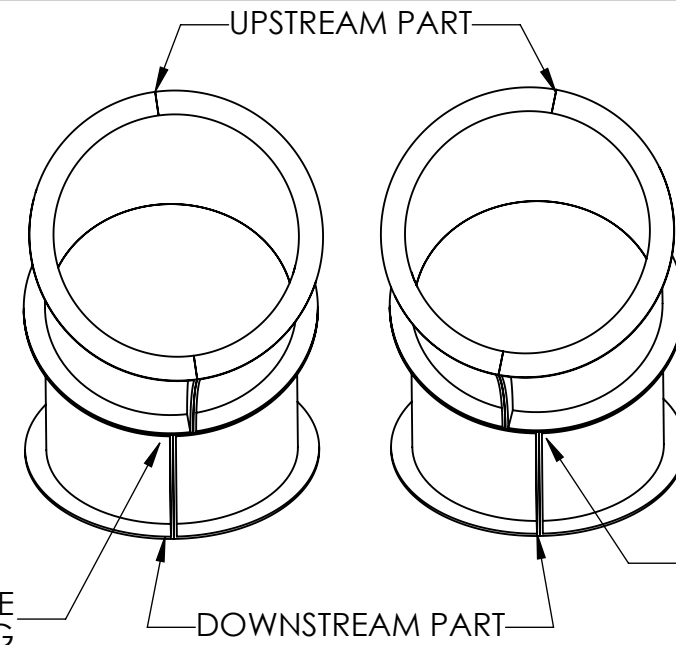
Rev.
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MEASURE INSIDE CIRCUMFERENCE OF ENTRY SECTION TO LOCATE CENTER PLATE

FLANGE PARALLEL TO CENTER ENTRY SECTION PLANE IS 0 DEG CLOCKING AS SHOWN HERE. (REFER TO SPECIFIED CLOCKING)

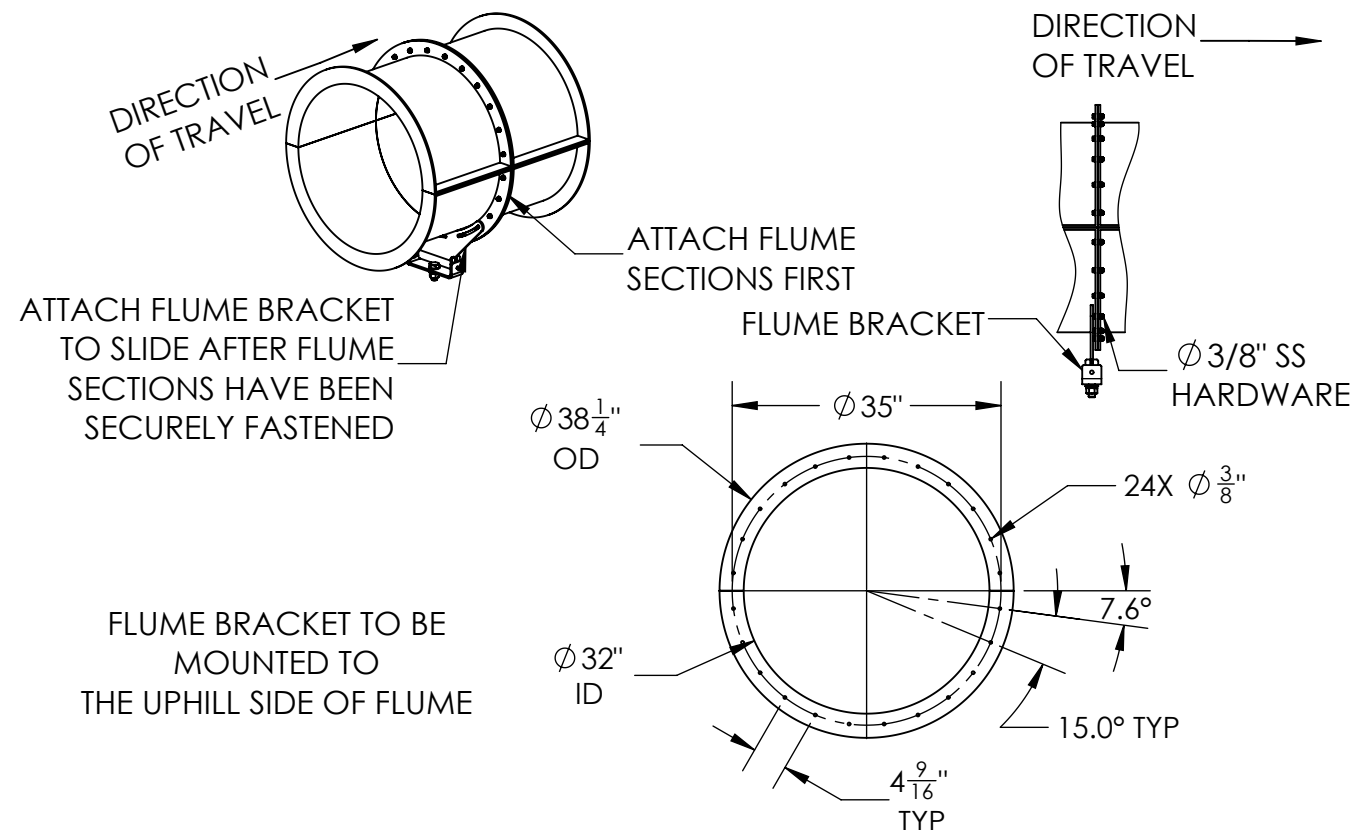


01 CLOCKING - TYPICAL FIRST JOINT LOCATION DETAIL
FA-03

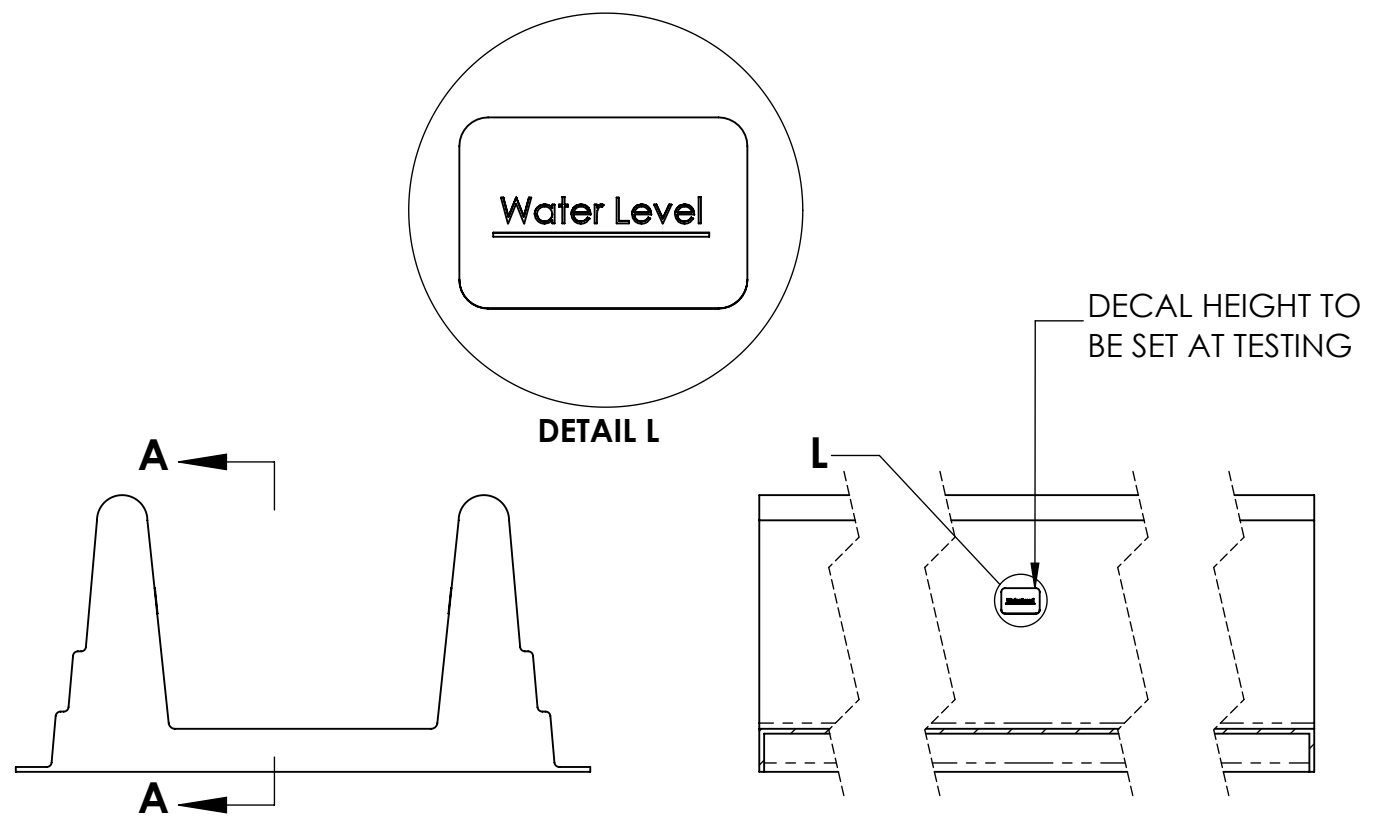


CLOCK ALL ADDITIONAL FLUME JOINTS BY ALIGNING INSIDE RADIUS FLANGE WITH THE PREVIOUS INSIDE RADIUS FLANGE IMMEDIATELY UPSTREAM. ARC LENGTH MEASUREMENTS TAKEN ALONG MAJOR DIAMETER (TRIMMED EDGE) OF UPHILL END FLANGE.

02 CLOCKING - SECOND THRU REMAINING JOINTS DETAIL
FA-03



03 TYPICAL CLOSED FLUME PRECISIONRIDE DRILL & ATTACHMENT DETAIL
FA-03



04 RUNOUT MINIMUM WATER LEVEL DETAIL
FA-03

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DATE	Revision Description	No.	By/Par

Drawing Title / Titre du Dessin
FLUME TYPICAL DETAILS

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JWH

Verified by/Verifie par

Scale/Echelle
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