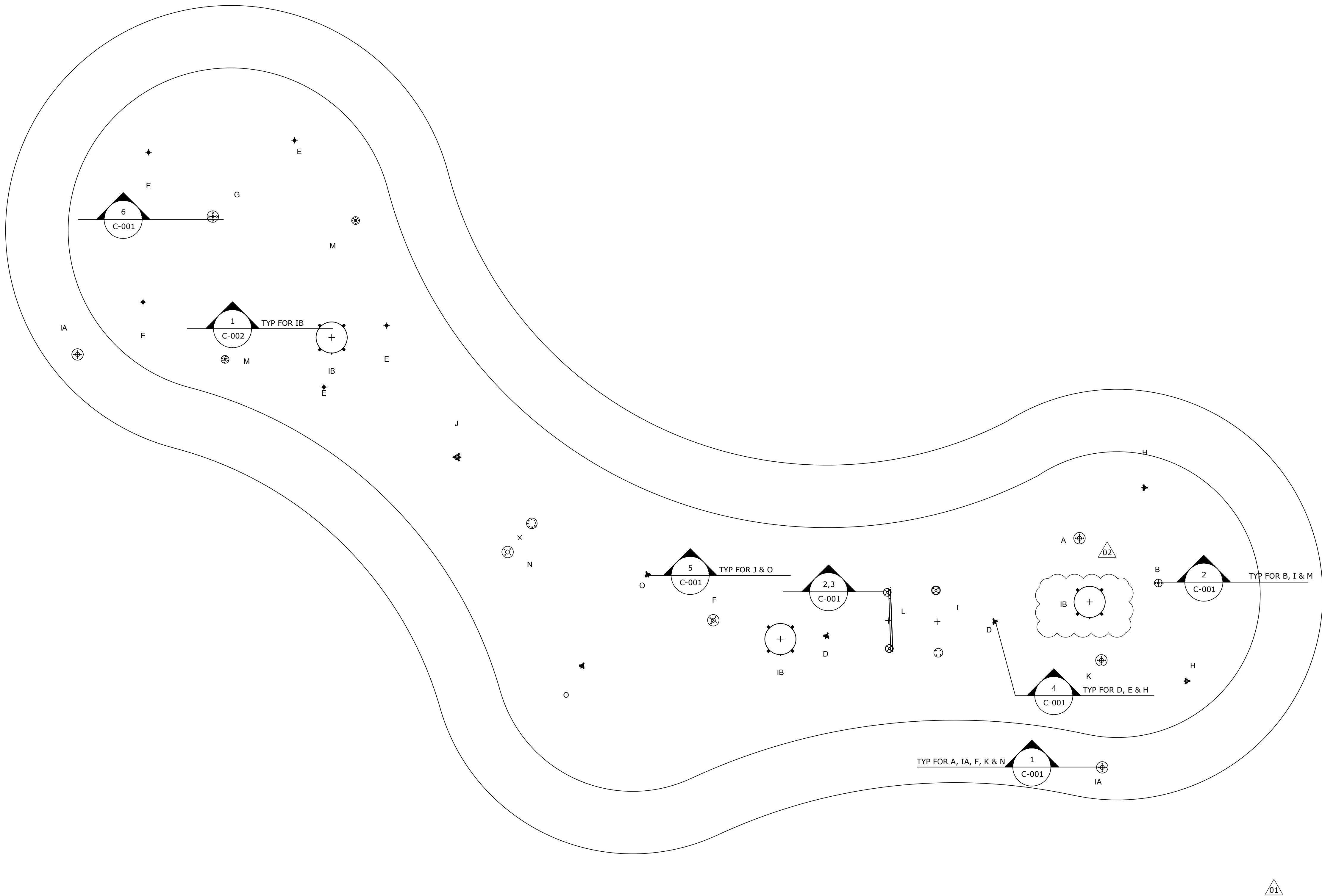


REF	PRODUCT	QTY
A	Aqua Dome N°1 VOR 0555	1
B	Bobble N°1 VOR 7232	1
IA	Bollard Activator N°3 VOR 0611	2
D	Directional Jet N°2 VOR 0321	2
E	Geyser VOR 0301	5
F	Helio N°5 VOR 7240	1
G	Helio N°6 VOR 7241	1
H	Jet Stream N°1 VOR 7512	2
I	Lune N°1 VOR 7230	1
J	Side Winder VOR 7518	1
K	Snail N°4 VOR 7217	1
L	Spray Loop VOR 0519	1
M	Tube N°1 * VOR 0220	2
N	Twinsplash VOR 7242	1
O	Water Bloom N°2 VOR 0329	2
IB	Playsafe Drain No. 1 VOR=1001.4000	3
	TOTAL	QTY
		27



<div style="border: 1px solid black; border-radius: 50%; width: 60px; height: 60px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="text-align: center;"> 1 A-002 </div> </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 35%;"> <h2 style="margin: 0;">ANCHOR PLAN</h2> </div> <div style="width: 60%; border-bottom: 1px solid black; margin-top: 10px;"></div> </div> <div style="margin-top: 10px;"> <ol style="list-style-type: none"> 1. REFER TO SPECIFICATIONS ON A-001 2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS. </div>
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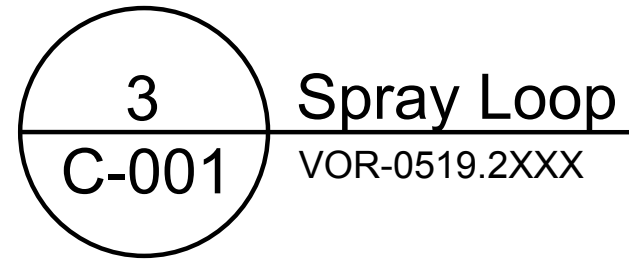
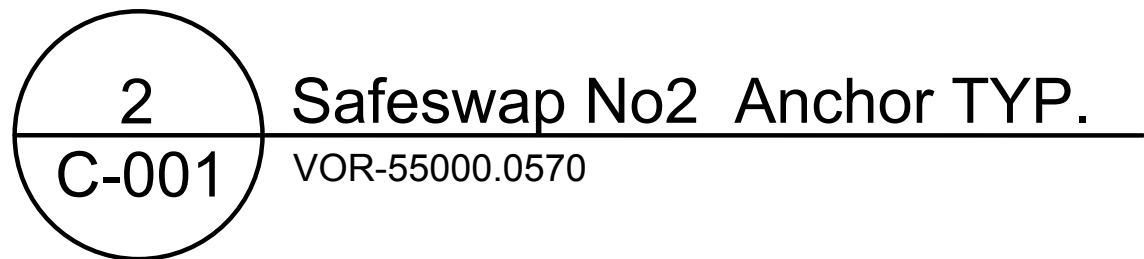
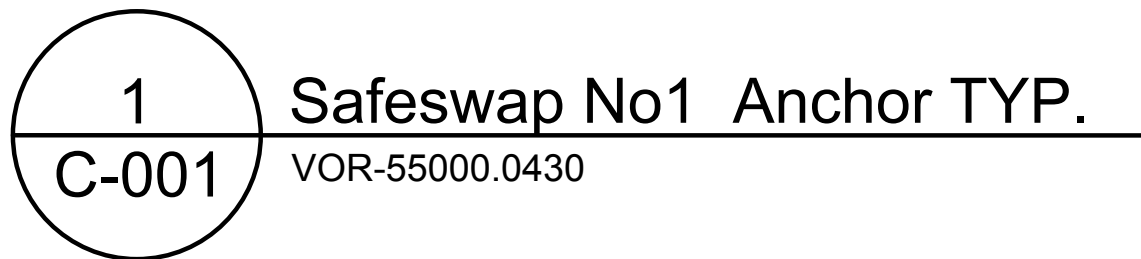
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South Ridge Splashpad

Project Location			
Hoffman Estates, IL			
Project Number			
24812			
Order Number			
18/Feb/2020	Re-issued for Bid	02	MM
30/Jan/2020	Re-issued for Bid	01	MM
20/Jan/2010	Issued for Bid	00	SR
Date	Revision Description	No.	By/Par
Drawing Title			
Anchor Plan			
Drawn by MM		Verified by MAB	
Scale 7/32":=1'		Date 18/Feb/2020	
Sheet # A-002			



South Ridge Splashpad



4 Ground Feature Anchor (3/4" Inlet)
C-001

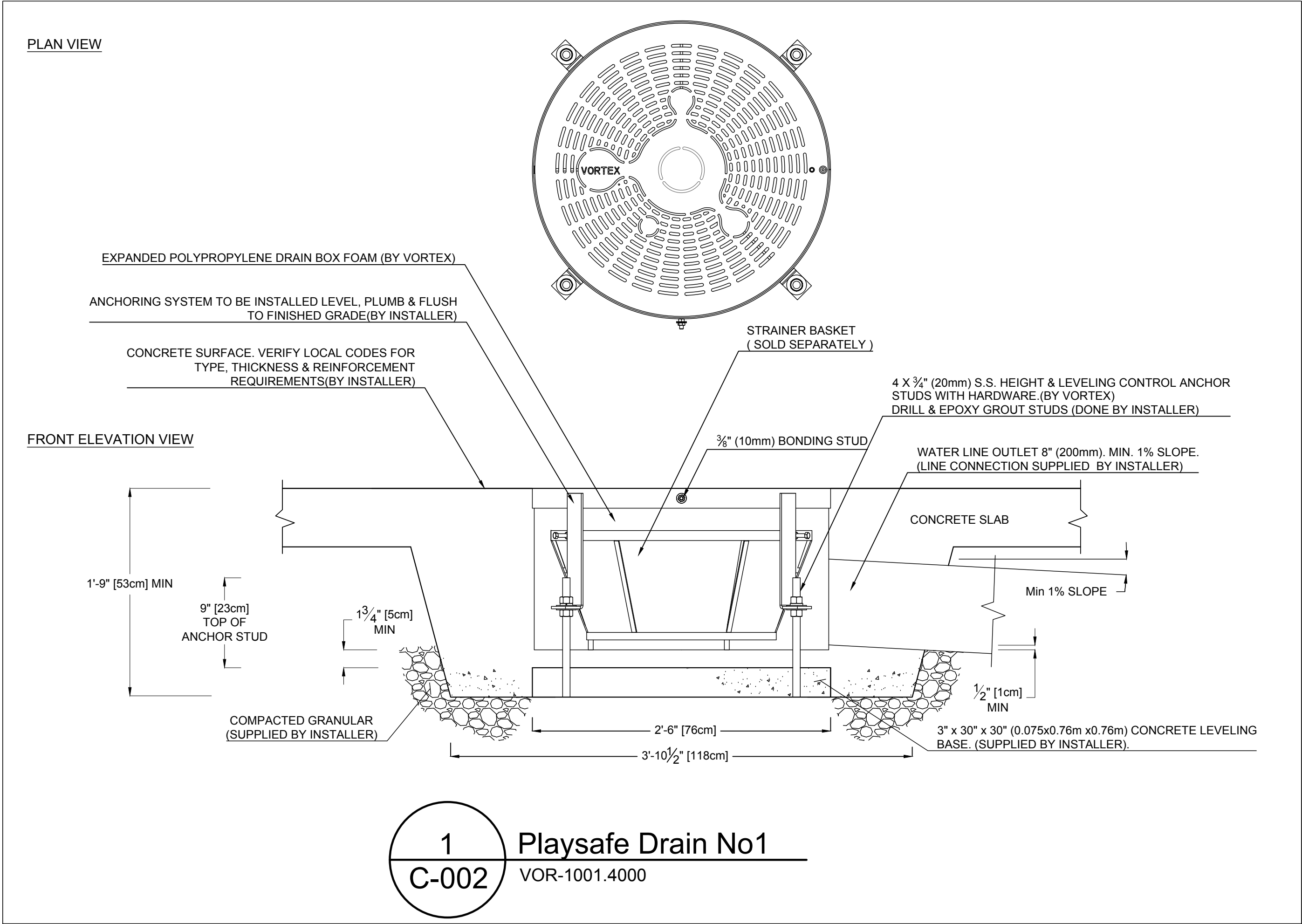
5 Ground Feature Anchor TYP (Inlet 1 1/2")
C-001

Drawing Title

Embed Details

Drawn by MM	Verified by MAB
Scale ---	Date 18/Feb/2020

Sheet #
C-001



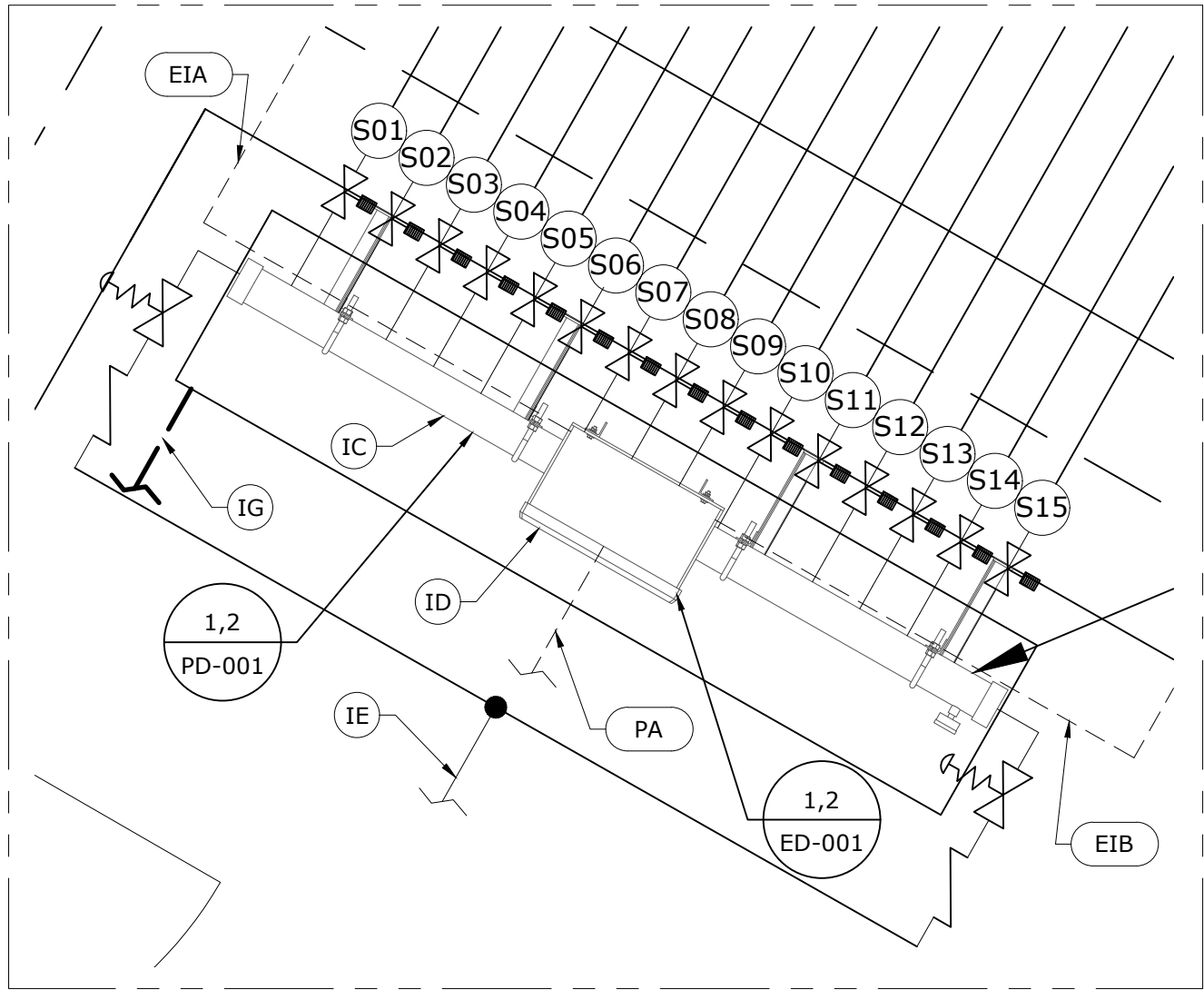
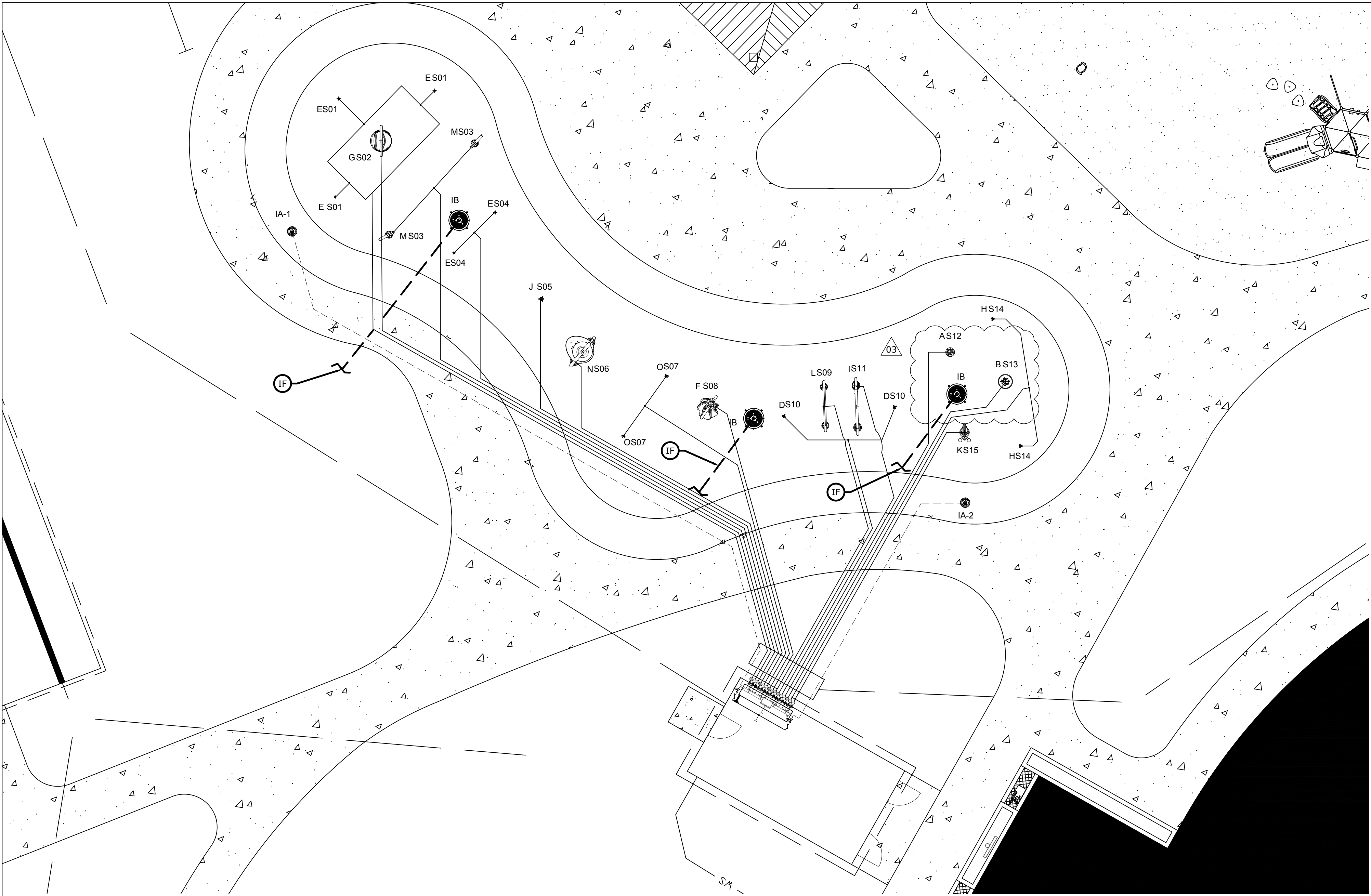
VORTEX

VORTEX USA Inc.
1420 Valwood Parkway Suite 205
Carrollton, Texas
United States 75006
Toll Free: +1 (877) 586-7839
Phone: +1 (972) 410-3619

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South Ridge Splashpad

Project Location			
Hoffman Estates, IL			
Project Number			
24812			
Order Number			

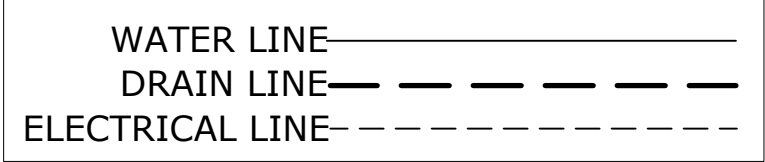


1 PLUMBING & ELECTRICAL LAYOUT

SCALE: 1/8"=1'-0"

1. RECOMMENDED SLOPE: 2% TOWARDS DRAIN.

2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL , CIVIL, PLUMBING & ELECTRICAL SECTIONS.



2 PLUMBING & ELECTRICAL LAYOUT

SCALE: 3/4"=1'-0"

Feature Connection Table							
Manifold Output Ref.	Solenoid Valve	Feature Ref.	Feature	Qty	Line Size	Gpm	Output (ID)
S01	1 1/2" Std	E	Geyser VOR 0301	3	1 1/2"	13.5	1
S02	1 1/2" Std	G	Helio N°6 VOR 7241	1	1 1/2"	13	2
S03	1 1/2" Std	M	Tube N°1 VOR 0220	2	1 1/2"	8	3
S04	1 1/2" Std	E	Geyser VOR 0301	2	1 1/2"	9	4
S05	1 1/2" Std	J	Side Winder VOR 7518	1	1 1/2"	6.5	5
S06	1 1/2" Std	N	Twinsplash VOR 7242	1	1 1/2"	12	6
S07	1 1/2" Std	O	Water Bloom N°2 VOR 0329	2	1 1/2"	18	7
S08	1 1/2" Std	F	Helio N°5 VOR 7240	1	1 1/2"	14	8
S09	1 1/2" Std	L	Spray Loop VOR 0519	1	1 1/2"	7.5	9
S10	1 1/2" Std	D	Directional Jet N°2 VOR 0321	2	1 1/2"	3	10
S11	1 1/2" Std	I	Luna N°1 VOR 7230	1	1 1/2"	13.5	11
S12	1 1/2" Std	A	Aqua Dome N°1 VOR 0555	1	1 1/2"	14	12
S13	1 1/2" Std	B	Bobble N°1 VOR 7232	1	1 1/2"	6	13
S14	1 1/2" Std	H	Jet Stream N°1 VOR 7512	2	1 1/2"	5	14
S15	1 1/2" Std	K	Snail N°4 VOR 7217	1	1 1/2"	6.5	15

Electrical Line Connections Power					
Product Code	From	To	# Conductors	Gauge/ Type	Note
PA	Main Power Line (by Owner)	ID-120VAC	3	N/A	120V, 1 Phase, 60Hz, 10Amps Breaker Recommended ± 10% Voltage Drop is Acceptable (by Installer)

Electrical Line Connections Controller Outputs					
Product Code	From	To	# Conductors	Gauge/ Type	Note
EIA	ID-Input 1	IA-1	5	22	Bollard Activator No. 1 24VAC, Max 250 mA, 164' Long Cable (by Vortex)
EIB	ID-Input 2	IA-2	5	22	Bollard Activator No. 1 24VAC, Max 250 mA, 164' Long Cable (by Vortex)

Product Legend		
Product Ref.	Product	Qty
IA	Bollard Activator No3 VOR-611	2
IB	Playsafe Drain No1 VOR-1001.4000 Water Distribution System;	3
IC	Wall Mounted Manifold 24812D2001R00	1
ID	Maestro Controller 16 out/ 8 in	1
IE	3" City Water Line @ 50PSI (by Installer)	1
IF	8" Line to Municipal Drain (by other)	3
IG	4" TYP Drain Line With Strainer Connected to Drainage System. Ensure P-Trap is Below Frost Line to Prevent Freezing. (by Installer)	1
Pressure Regulator (by Vortex)		2
Backflow Preventer (by Vortex)		2
Solenoid Valve 1 1/2"		15

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VORTEX USA Inc.
1420 Valwood Parkway Suite 205
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South Ridge Splashpad

Project Location
Hoffman Estates, IL

Project Number
24812

Order Number

18/Feb/2020	Re-issued for Bid	03	MM
30/Jan/2020	Re-issued for Bid	02	MM
20/Jan/2020	Issued for Bid	01	SR
17/Jan/2020	Issued for Approval	00	SR
Date	Revision Description	No.	By/Par

Plumbing & Electrical Layout

Drawn by
MM

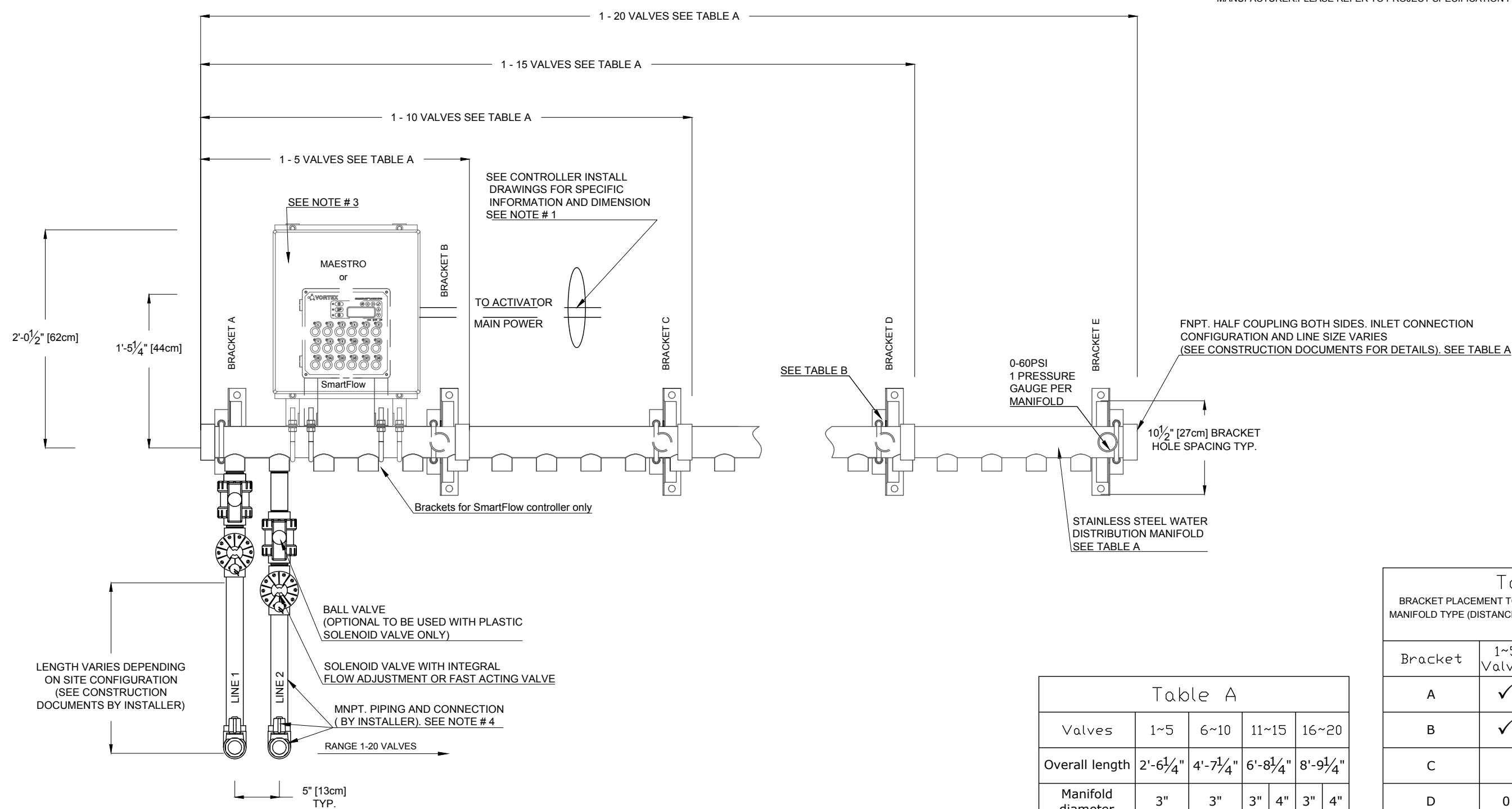
Verified by
MAB

Scale

Date
18/Feb/2020

Sheet #
PE-001

THIS SHEET COVERS ALL THE MANIFOLD RANGE
WITH INTERVAL OF 5 VALVES



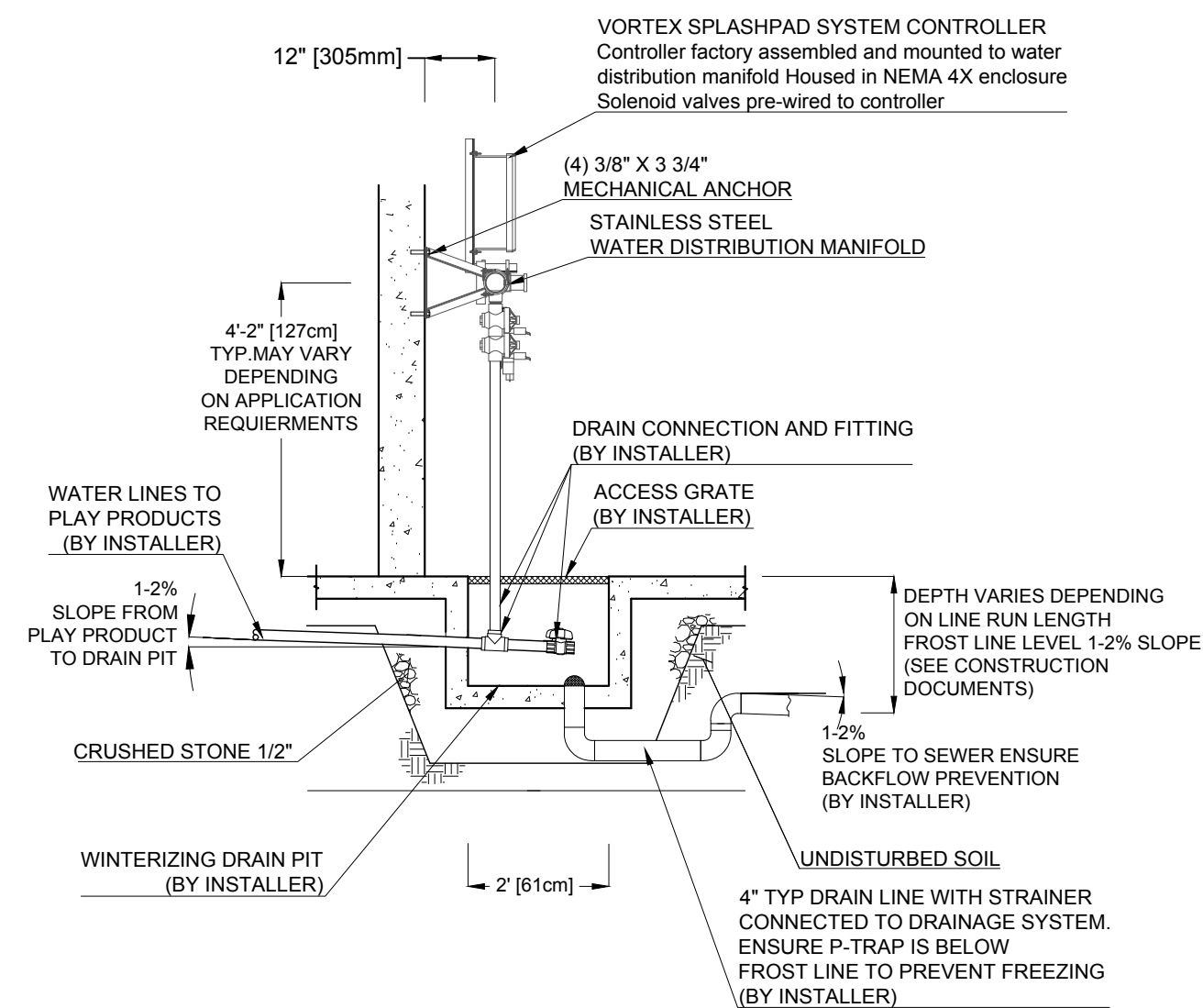
NOTE:

1. SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL.
2. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
3. IF CONTROLLER IS REMOTE LOCATED, CONDUCTORS # 18 AWG AT 10' LONG PROVIDED FOR THE CONTROLLER BY VORTEX.
4. FOR QUANTITY SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL.
5. WATER OUTLETS ARE FEMALE NPT CONNECTING.
6. BY INSTALLER/ CONTRACTOR MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER, PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.

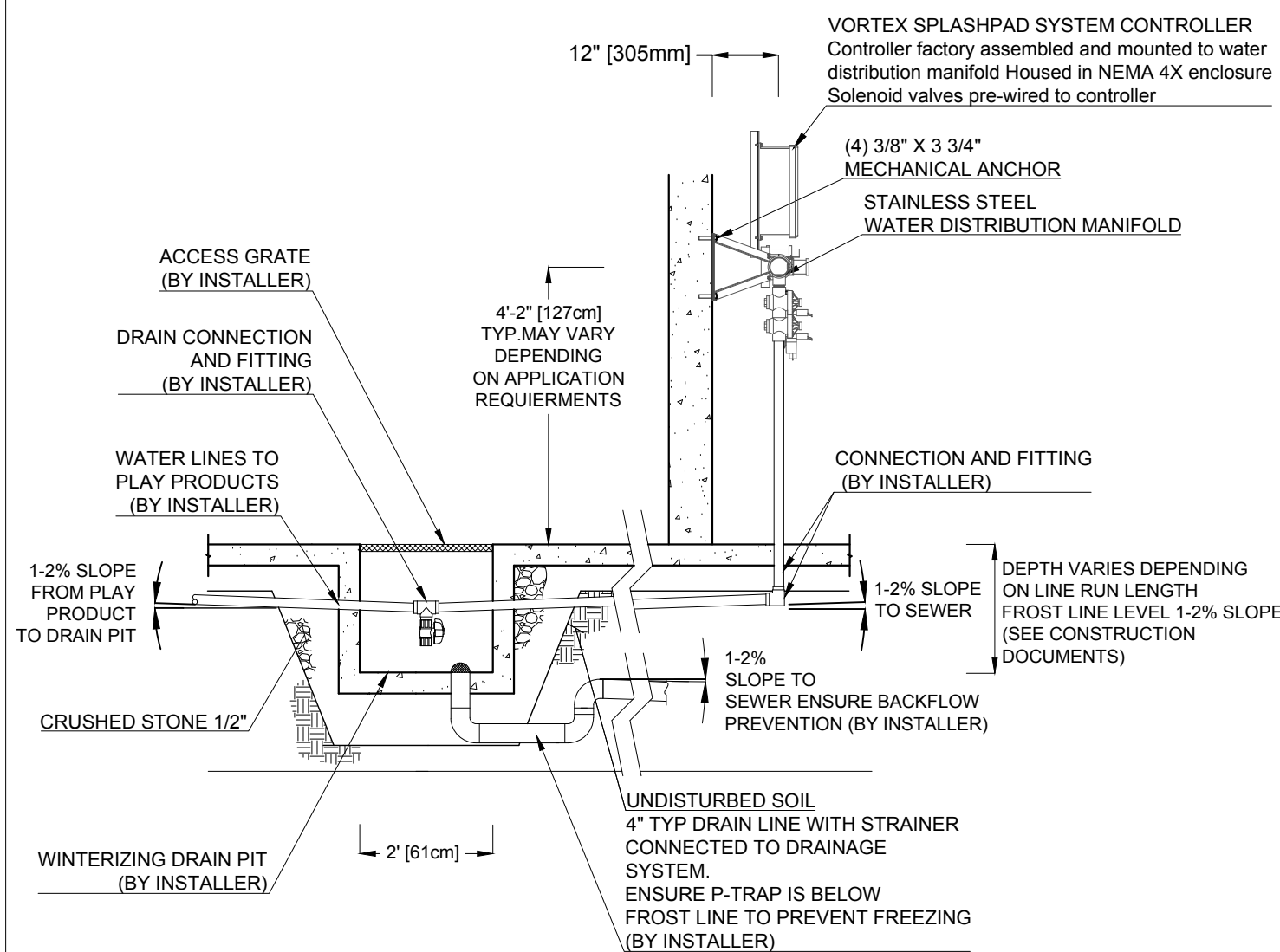
Valves	1-5	6-10	11-15	16-20
Overall length	2'-6 $\frac{1}{4}$ "	4'-7 $\frac{1}{4}$ "	6'-8 $\frac{1}{4}$ "	8'-9 $\frac{1}{4}$ "
Manifold diameter	3"	3"	3" 4"	3" 4"
Inlet diameter	2" 3"	2" 3"	2" 3" 4"	2" 3" 4"

BRACKET PLACEMENT TO BE SELECTED WITH RESPECT TO MANIFOLD TYPE (DISTANCE BETWEEN BRACKETS : 2" (49mm) TYP.)				
Bracket	1-5 Valves	6-10 Valves	11-15 Valves	16-20 Valves
A	✓	✓	✓	✓
B	✓			
C		✓	✓	✓
D	0	0	✓	0
E	0	0	0	✓

1 WALL MOUNTED COMMAND CENTER WITH INTERVAL OF 5 VALVES POSITIONS , MAESTRO CONTROLLER
 PD-001 D800.0000R01



TYPICAL WINTERIZING DRAINAGE CONFIGURATION LAYOUT



ALTERNATE WINTERIZING DRAINAGE CONFIGURATION LAYOUT

2 WALL MOUNTED COMMAND CENTER WITH INTERVAL OF 5 VALVES POSITIONS , MAESTRO CONTROLLER
 PD-001 D800.0000R01



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1420 Valwood Parkway Suite 205
Carrollton, Texas
United States 75006
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South Ridge Splashpad

Project Location
Hoffman Estates, IL

Project Number
24812

Order Number

20/Jan/2020	Issued for Bid	00	SR
Date	Revision Description	No.	By/Par

Drawing Title

Plumbing Details

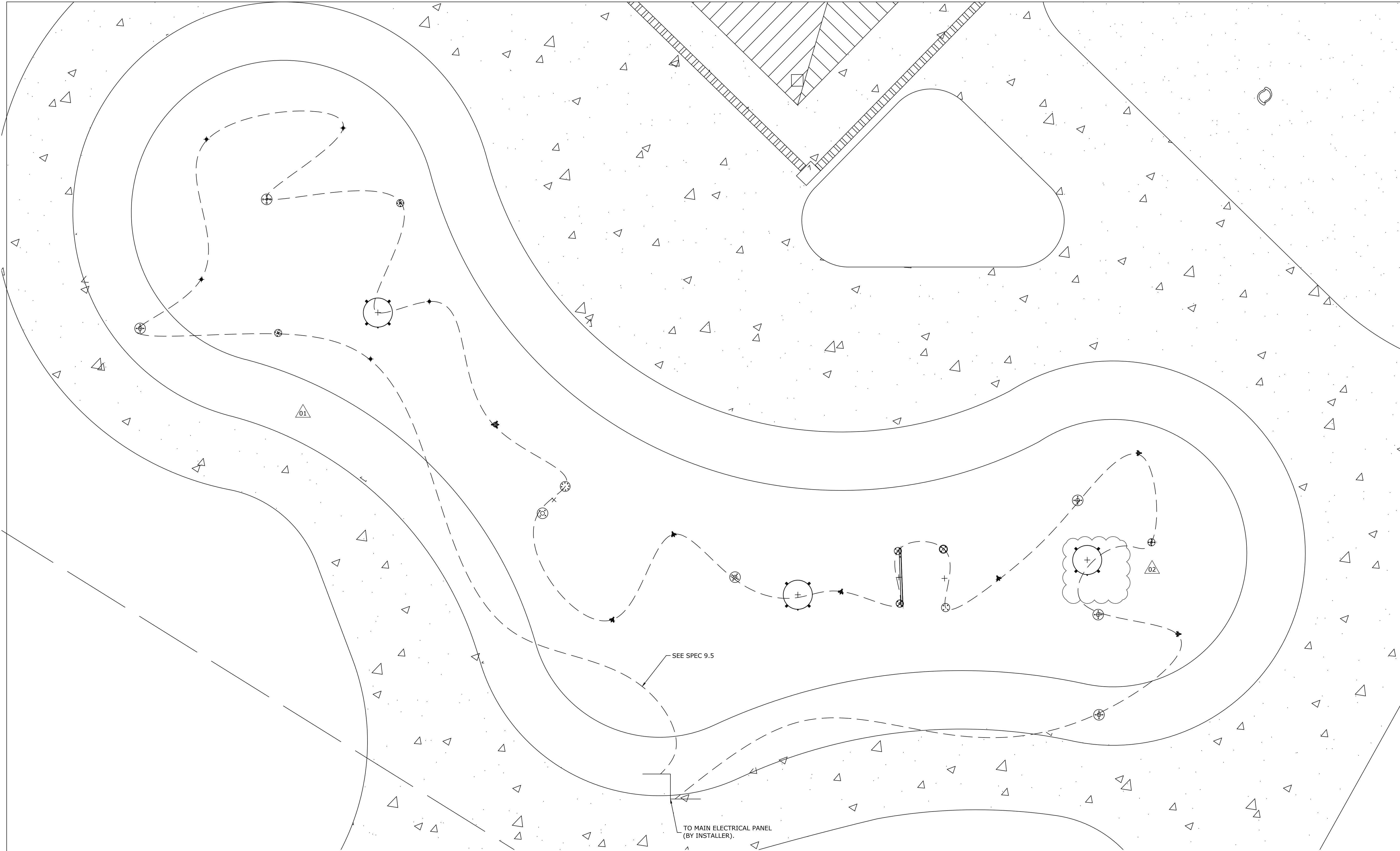
Drawn by
MM


Verified by	
MAR	

Scale

Date	18/Feb/2020
------	-------------

Sheet #
PD-001





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Carrollton, Texas
United States 75006
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South Ridge Splashpad

Project Location
Hoffman Estates, IL

Project Number
24812

Order Number

18/Feb/2020	Re-issued for Bid	02	MM
30/Jan/2020	Re-issued for Bid	01	MM
20/Jan/2020	Issued for Bid	00	SR
Date	Revision Description	No.	By/Par

Drawing Title
Bonding Layout

Drawn by MM	Verified by MAB
Scale 1/4":1'	Date 18/Feb/2020

Sheet #
E-001

1

E-001

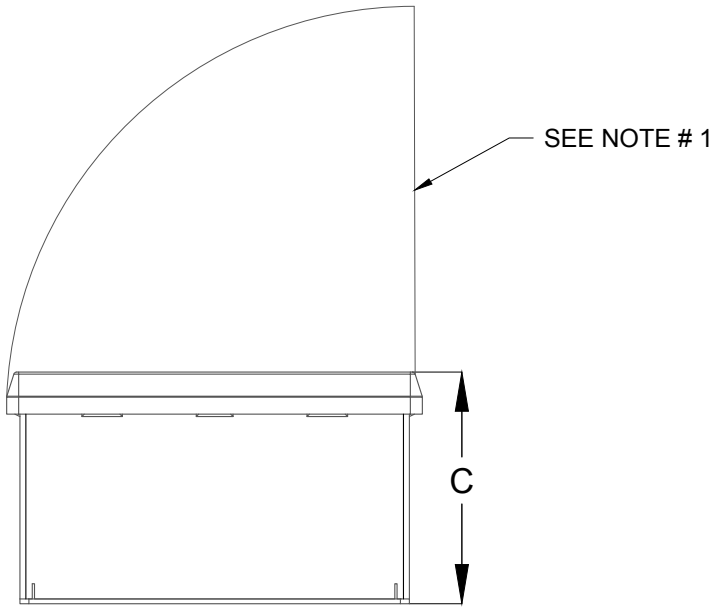
BONDING LAYOUT

1. REFER TO SPECS ON A-001
2. COORDINATE THIS DRAWING WITH
ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL.

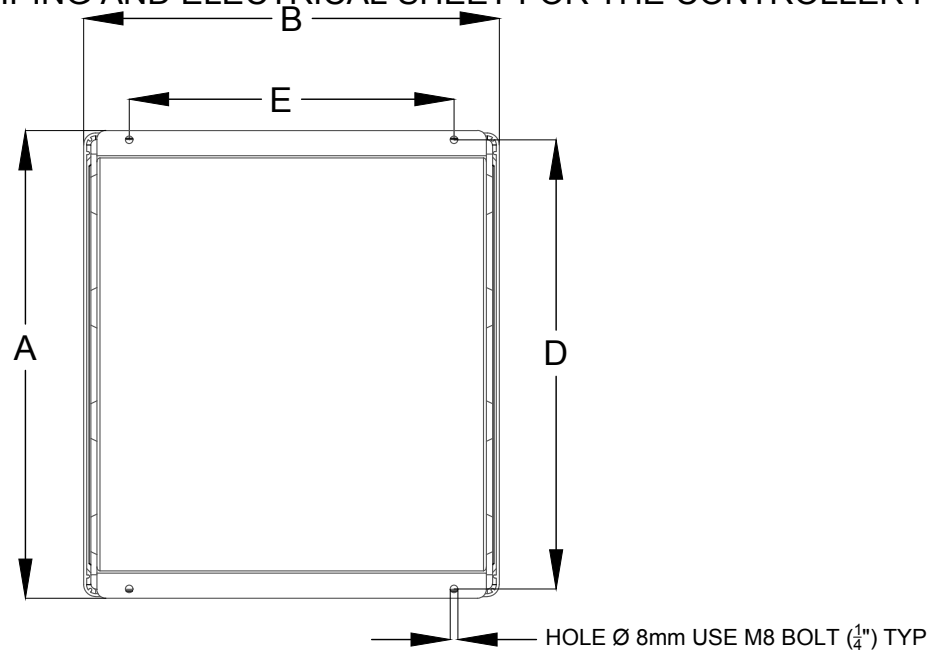
Bonding wire -----

DIMENSIONS

NOTE:
1 - ENSURE ENOUGH CLEARANCE FOR THE DOOR OPENING



REFER TO THE PIPING AND ELECTRICAL SHEET FOR THE CONTROLLER NUMBER



1

ED-001

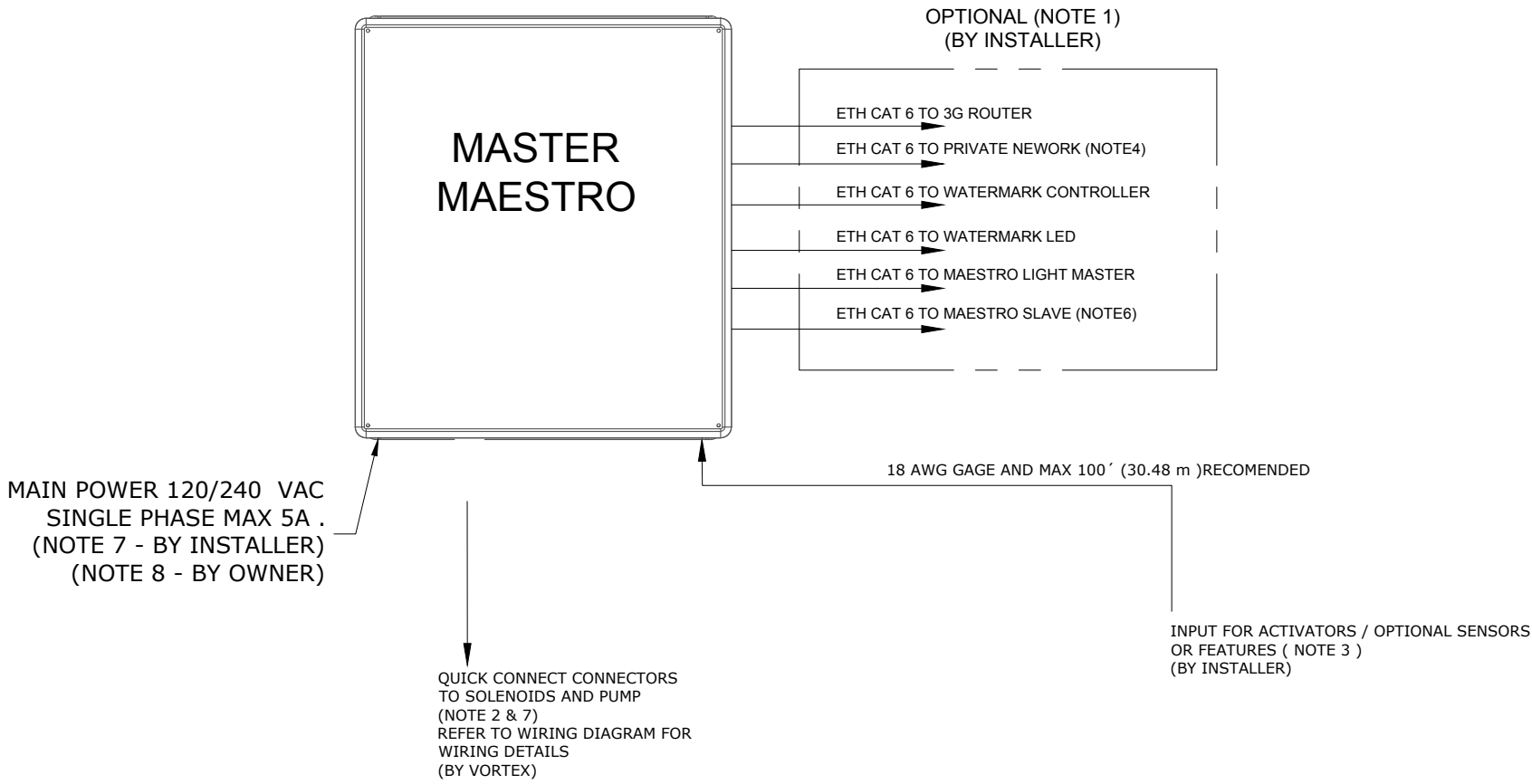
Maestro Controller

16 out / 8in

MAESTRO ENCLOSURE DIMENSIONS					
# CTRL	A" (mm)	B" (mm)	C" (mm)	D" (mm)	E" (mm)
Main MAESTRO					
Water reuse					
33907.0000	17.5 (445)	15.3 (389)	8 (208)	16.8 (425.5)	12 (305)
33907.0001	17.5 (445)	15.3 (389)	8 (208)	16.8 (425.5)	12 (305)
33907.0060	17.5 (445)	15.3 (389)	8 (208)	16.8 (425.5)	12 (305)
33907.0061	17.5 (445)	15.3 (389)	8 (208)	16.8 (425.5)	12 (305)
33907.0070	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.0071	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.0080	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.0081	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
Water recirculation / WQMS					
33907.1060	17.5 (445)	15.3 (389)	8 (208)	16.8 (425.5)	12 (305)
33907.1061	17.5 (445)	15.3 (389)	8 (208)	16.8 (425.5)	12 (305)
33907.1070	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.1071	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.1080	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.1081	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.10A0	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.10A1	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
Fast acting valves					
33907.1150	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.1151	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
Expansion MAESTRO					
Standard					
33907.2010	17.5 (445)	15.3 (389)	8 (208)	16.8 (425.5)	12 (305)
33907.2011	17.5 (445)	15.3 (389)	8 (208)	16.8 (425.5)	12 (305)
Fast acting valves					
33907.2110	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.2111	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.2120	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.2121	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.2130	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)
33907.2131	19.5 (495)	17.3 (440)	9.6 (243)	18.7 (475)	12 (305)

33907.0XXX & 33907.1XXX CONNECTIONS

- NOTE:
- 1 - A MAXIMUM OF 4 ETHERNET CAT6 CONNECTIONS ARE AVAILABLE PER MAESTRO.
IF MORE CONNECTIONS ARE NEEDED, THEN IT REQUIRES A ETH EXPANSION MODULE (SOLD SEPARATELY).
 - 2 - QUANTITY OF CONNECTORs MAY VARY BASED ON MAESTRO SIZE OUTPUT CONTROL: 24 VAC MAX 1A SUPPLIED BY MAESTRO.
 - 3 - FOR ANY INPUT, 24 VAC 250mA MAX SUPPLIED BY MAESTRO. REFER TO THE CORRESPONDING SCHEMATIC DRAWING MANUAL FOR WIRING DETAILS.
 - 4 - MAESTRO EQUIPMENTS ON 99.99.99.X SUBNET. 99.99.99.5 MUST BE USED FOR THE ROUTER LOCATED BETWEEN VORTEX LAN NETWORK AND THE WAN NETWORK PROVIDING INTERNET. REFER TO MAESTRO USER GUIDE MANUAL FOR MORE INFORMATION.
 - 5 - FOR POWER REQUIREMENTS, REFER TO SCHEMATIC DRAWING OF CORRESPONDING MAESTRO.
 - 6- IF MULTIPLE MAESTRO SLAVES REQUIRED, EACH UNIT REQUIRES AN INDIVIDUAL ETHERNET CABLE CONNECTION TO THE MASTER MAESTRO
 - 7- WATER TIGHT CONNECTIONS WITH MAESTRO DONE BY INSTALLER.
 - 8- AS PER ELECTRICAL CONSTRUCTION AND SAFETY CODES:CONTROLLER AND/OR LED POWER PANELS AND/OR ANY OTHER ELECTRICAL EQUIPMENT MUST BE HARD-WIRED TO A GROUND FAULT CIRCUIT INTERRUPTER(GFCI)FROM THE INPUT POWER SOURCE.ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENCE ELECTRICIAN IN ACCORDANCE TO LOCAL ELECTRICAL CONSTRUCTION AND SAFETY CODES.



2

ED-001

Maestro Controller

16 out / 8in

Project Location
Hoffman Estates, IL

Project Number
24812

Order Number

20/Jan/2020	Issued for Bid	00	SR
Date	Revision Description	No.	By/Par

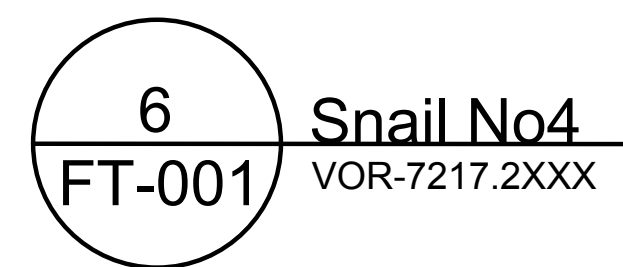
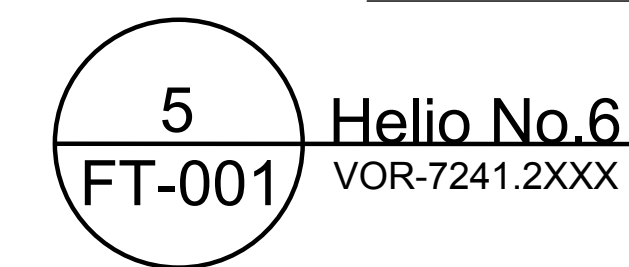
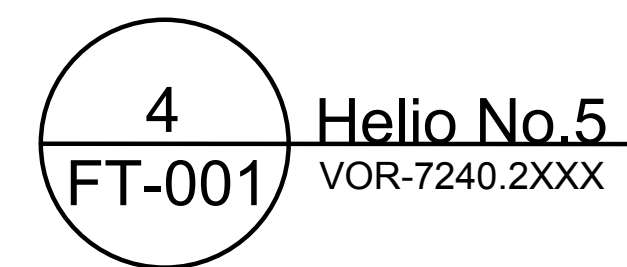
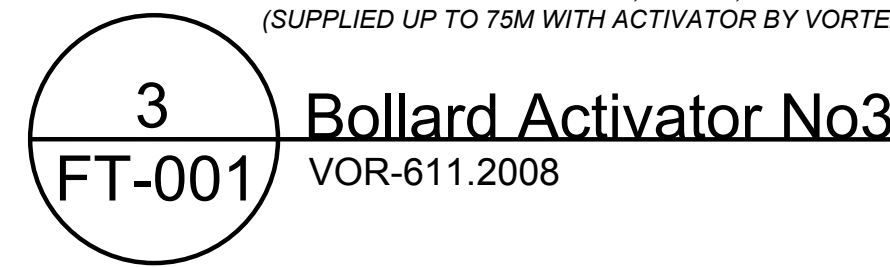
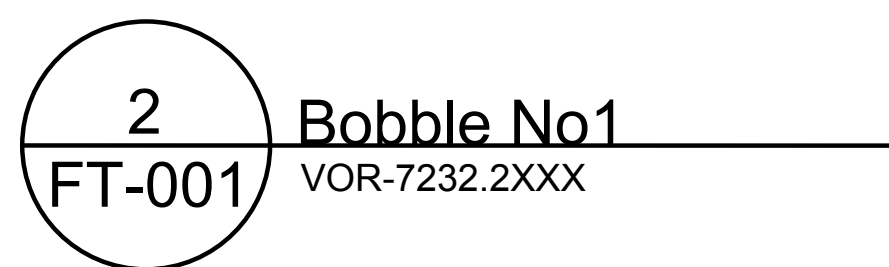
Drawing Title
Electrical Details

Drawn by MM	Verified by MAB
Scale ---	Date 18/Feb/2020

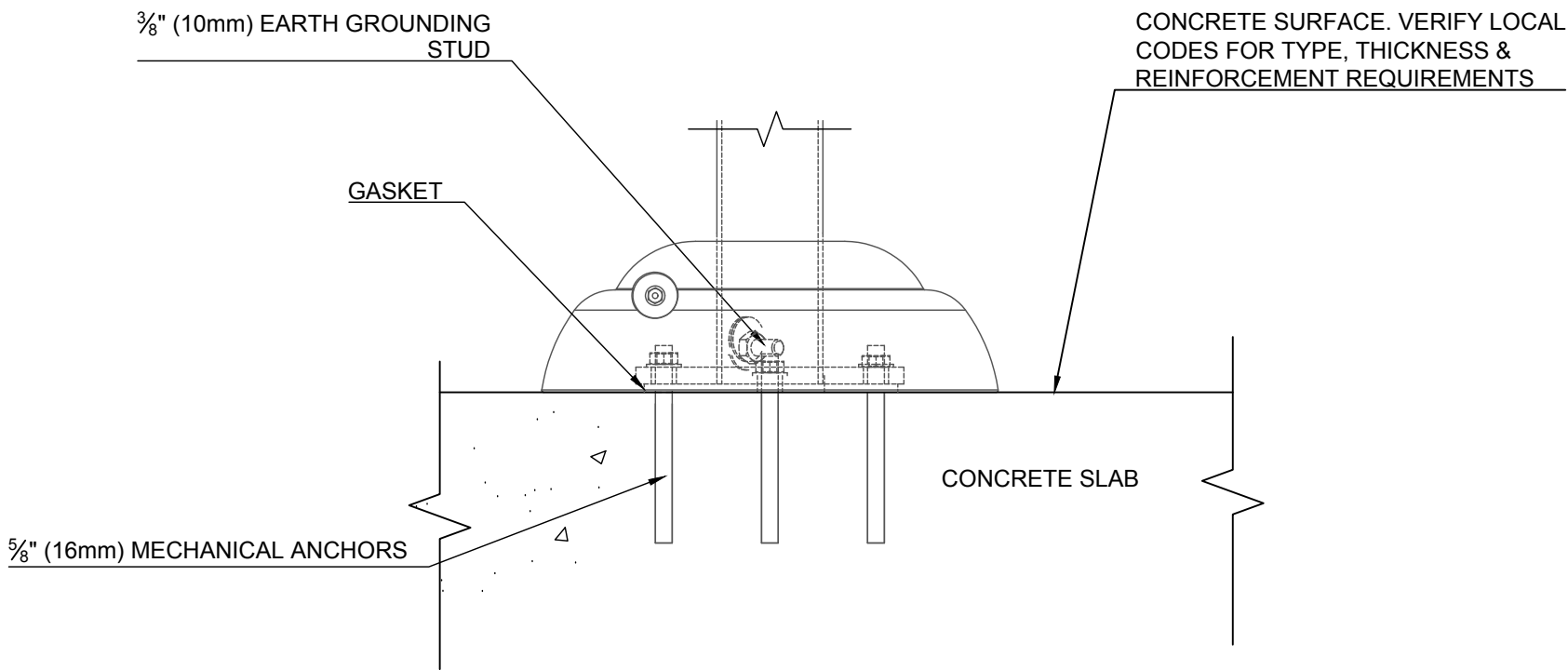
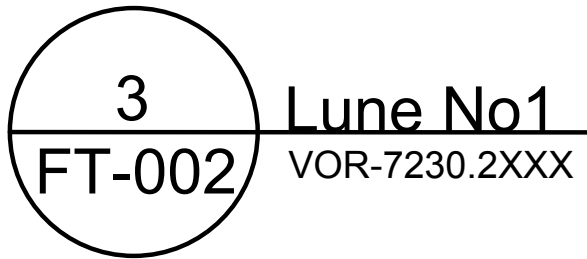
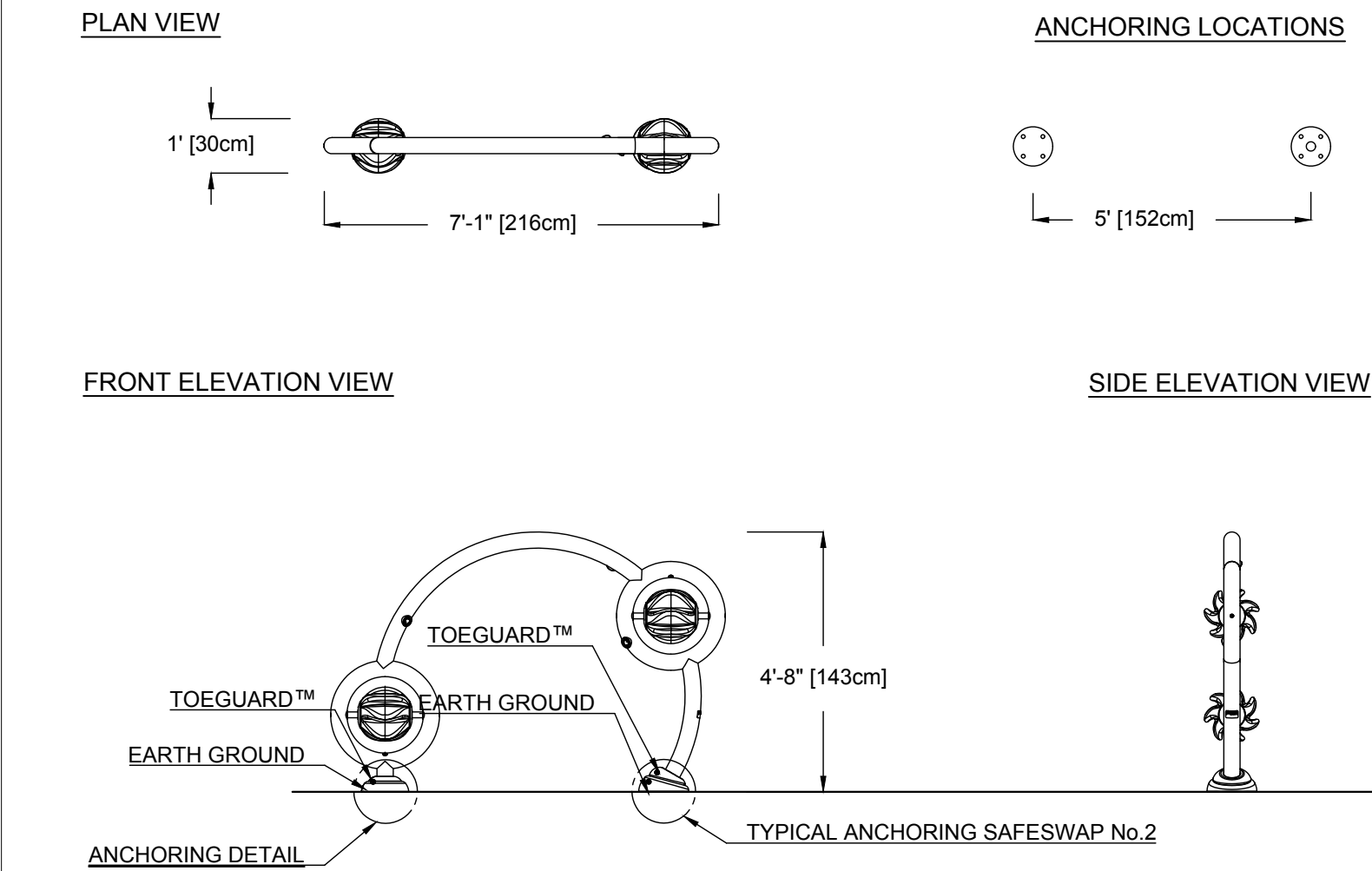
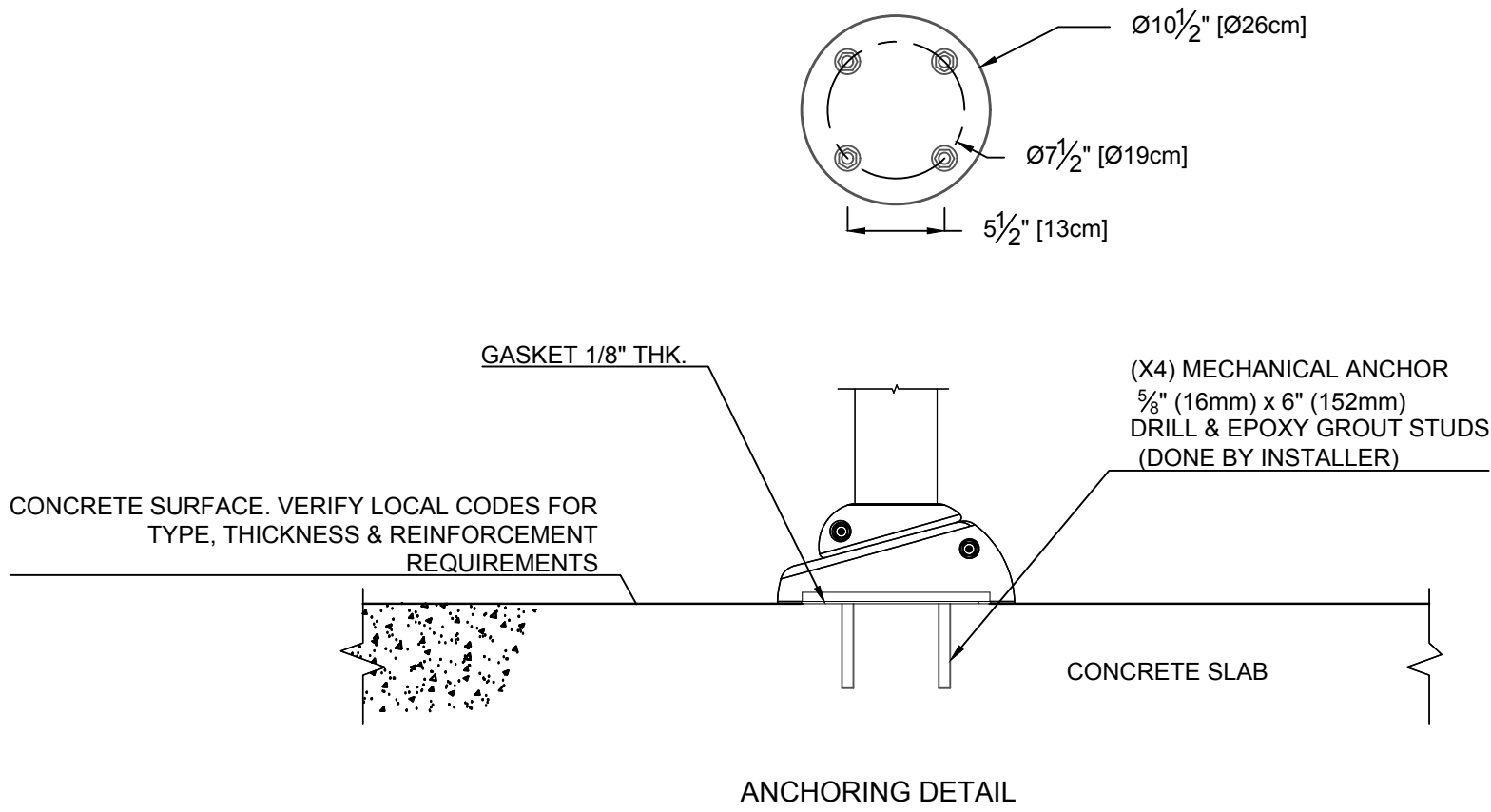
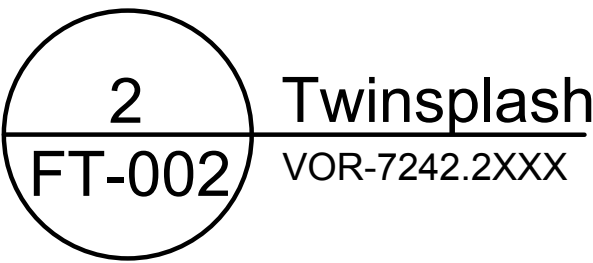
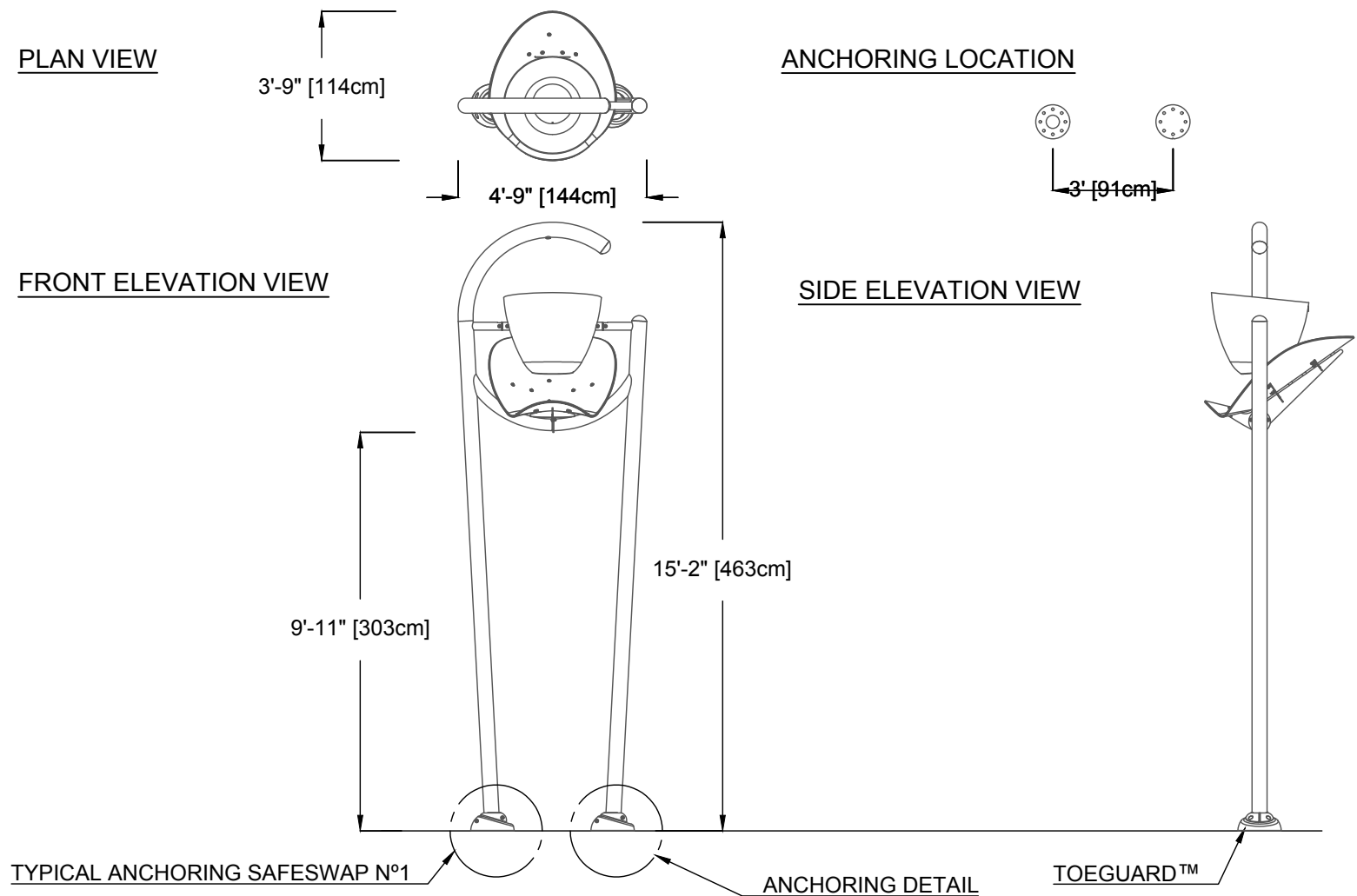
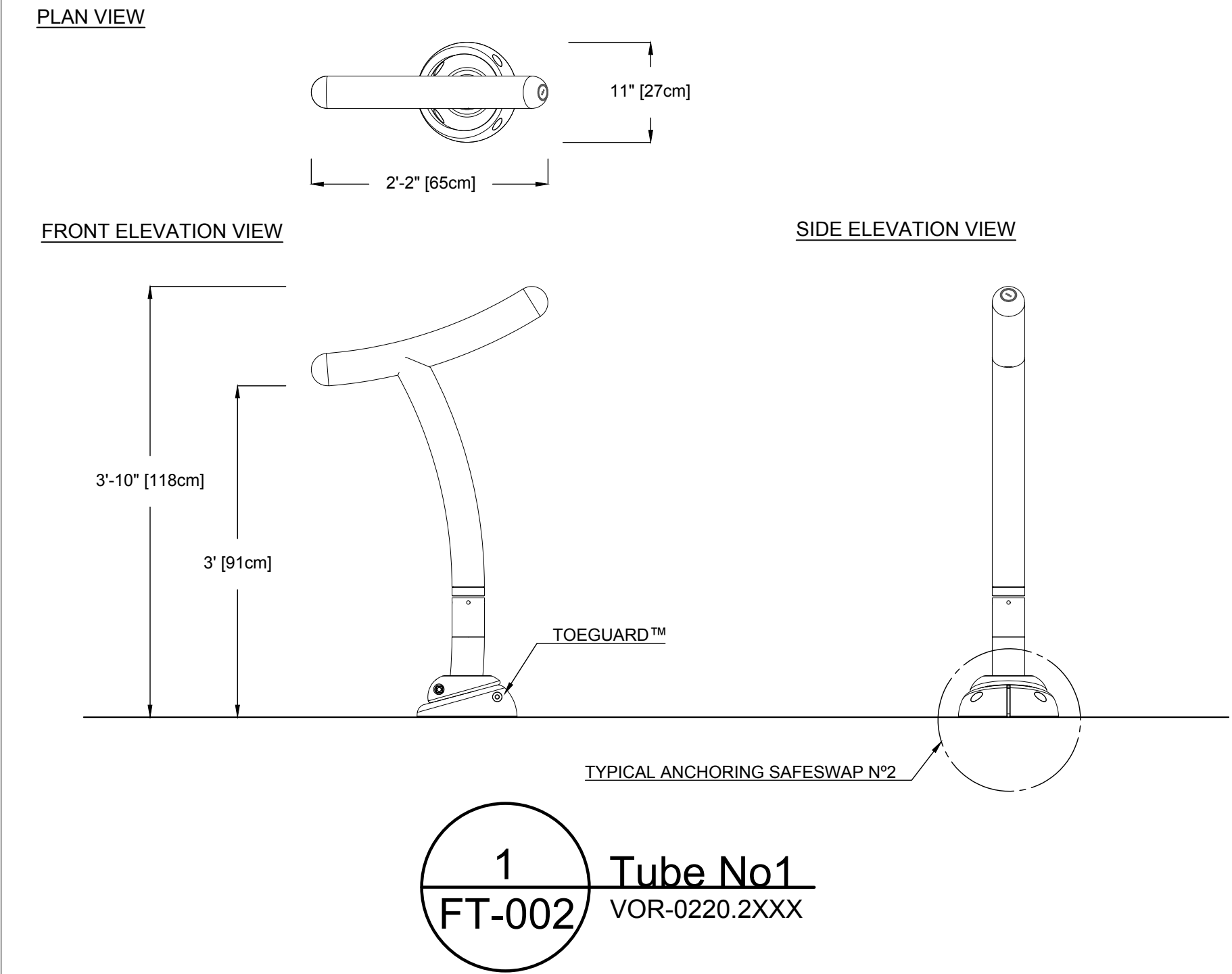
Sheet #
ED-001



South Ridge Splashpad



Drawing Title	
Feature Installation Drawing	
Drawn by MM	Verified by MAB
Scale ---	Date 18/Feb/2020
Sheet # FT-001	



South Ridge Splashpad

Project Location
Hoffman Estates, IL

Project Number
24812

Order Number

20/Jan/2020	Issued for Bid	00	SR
Date	Revision Description	No.	By/Par

Drawing Title

Feature Installation Drawing

Drawn by MM	Verified by MAB
Scale ---	Date 18/Feb/2020

Sheet #
FT-002

SPLASHPAD DIMENSION

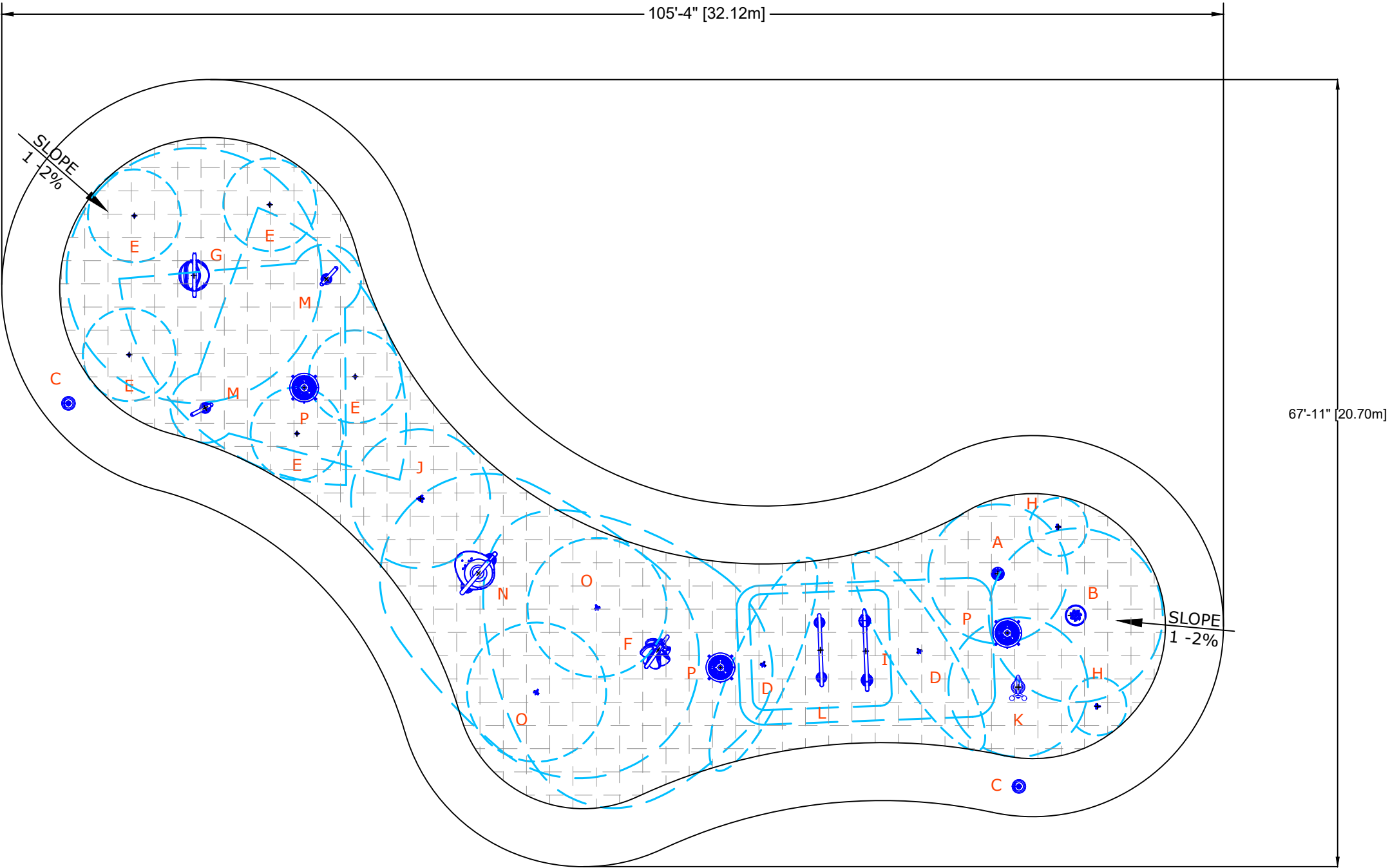
TOTAL AREA : 3363 ft² 312m²

SPRAY AREA : 2020 ft² 187m²

GRID SIZE : 2 x 2 ft 0.6 x 0.6m

PRODUCT LEGEND

REF	PRODUCT	QTY	GPM	LPM
A	Aqua Dome N°1 VOR 0555	1	14	53
B	Bobble N°1 VOR 7232	1	6	22.7
C	Bollard Activator N°3 VOR 0611	2	0	0
D	Directional Jet N°2 * VOR 0321	2	3	11.4
E	Geyser * VOR 0301	5	22.5	85.2
F	Helio N°5 VOR 7240	1	14	53
G	Helio N°6 VOR 7241	1	13	49.2
H	Jet Stream N°1 VOR 7512	2	5	18.9
I	Luna N°1 VOR 7230	1	13.5	51.1
J	Side Winder VOR 7518	1	6.5	24.6
K	Snail N°4 VOR 7217	1	6.5	24.6
L	Spray Loop VOR 0519	1	7.5	28.4
M	Tube N°1 * VOR 0220	2	8	30.3
N	Twinsplash VOR 7242	1	12	45.4
O	Water Bloom N°2 VOR 0329	2	18	68.1
P	Playsafe Drain N°1 VOR 1001.4000	3	0	0
TOTAL		27	149.5	565.9



VORTEX RECOMMENDS 5'[1.5m] SPRAY FREE CONCRETE AREA ALL AROUND THE SPLASHPAD

South Ridge Splashpad, IL

24812 Version-B (*Low Flow) February 17, 2020



SPLASHPAD LAYOUT DRAWING

SCALE :3/32":1'
11" X 17" sheet size

