1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION. A CHECKLIST OF WASTE WATER TREATMENT PLANT TAPS TO BE DISCONNECTED AND THE DATE OF DISCONNECTION SHALL BE SUBMITTED ACCOMPANYING THE PHYSICAL DRAWINGS OF THE WORK TO BE PERFORMED. THE NEW EARNED SHALL BE TAKEN PRIOR TO THE START OF CONSTRUCTION.

2. THE VILLAGE OF HOFFMAN ESTATES ENGINEERING DEPARTMENT AND PUBLIC WORKS MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION OR EACH WORK PHASE. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE INSTALLATION OF UTILITIES; ALL UTILITY COMPANIES WILL BE NOTIFIED OF THE DATE OR WORK IS TO BE CONDUCTED. AFTER CONSTRUCTION IS COMPLETED, ALL UTILITY COMPANIES SHALL BE NOTIFIED PRIOR TO THE DESTRUCTION AND/or RECONSTRUCTION OF THE UTILITY LINES.

3. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER TAP DISCERNMENT. THE NEW TAP BORING IS TO USE SEWER CONSTRUCTION OR A CONNECTION TO MAKE.

6. DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.

6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE REPAIRED OR RECONSTRUCTED. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF HOFFMAN ESTATES ENGINEERING DEPARTMENT AND PUBLIC WORKS NO LATER THAN 24 HOURS PRIOR TO THE START OF CONSTRUCTION.

10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE OBTAINED FOR SANITARY TAP DISCERNMENTS. UNLESS APPROPRIATELY NOTED, ALL TAPS AND CONVERSIONS OF EXISTING TAPS SHALL BE MADE IN COMPLIANCE WITH THE ENGINEERING PLANS.

10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NEEDED TO DIRECT ALL RUNOFF FROM The PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.

21. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.

22. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO COMPLETE THE PROJECT. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN SEVENTY-TWO (72) HOURS OF JOB COMPLETION. EROSION AND SEDIMENT CONTROL MEASURES INSTALLED OR REPAIRED BEYOND SEVENTY-TWO (72) HOURS OF JOB COMPLETION SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO COMPLETE THE PROJECT.

23. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO COMPLETE THE PROJECT. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES INSTALLED OR REPAIRED BEYOND SEVENTY-TWO (72) HOURS OF JOB COMPLETION SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO COMPLETE THE PROJECT.

**SPECIFIED MATERIALS**

- **CAST IRON SOIL PIPE**
  - ASTM D-3035
  - ASTM D-3212

- **WATER-TIGHT PLUGS**
  - ASTM C-425

- **CONCRETE SEWER PIPE**
  - AWWA C900

In addition to the specified materials, other approved products may be used with the prior written approval of MWC.

**ADDITIONAL REQUIREMENTS**

- **SAND BAGS**
  - Weather-Resistant, Biodegradable

- **SOILS**
  - Class B

- **WATER**
  - Ground Water

**Erosion Control**

- **STABILIZED MATS**
  - Crushed Stone

- **PLANTS**
  - Native Species

**Sediment Control**

- **Sediment Urban Management**
  - Baseline Survey

- **Sediment Sedimentation Ponds**
  - Double Layered

**Construction Activity**

- **Trenching**
  - Minimum 18" Vertical Separation

- **Excavation**
  - Stable Slopes

**Safety**

- **Safety Equipment**
  - Hardhats, Safety Shoes

- **Signage**
  - Traffic Control

**Quality Control**

- **Materials**
  - Approved by MWC

- **Drawings**
  - Current and Approved

**Permits**

- **Permit Requirements**
  - Site Plan Approval

- **Inspections**
  - At Least Two (2) Days Notice
**ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.**

**ELECTRICAL DETAILS**

1. 5' [1.5M] SPRAY FREE AREA ALL AROUND THE SPLASHPAD

2. GENERAL REQUIREMENTS FOR COLD WATER CONCRETE MIXES SHALL BE AS PER ACI 318-99 OR AS THE LOCAL CODE REQUIRES. IN THIS CONTRACT THE SPECIFICATION REFERS TO ACI 318-99. ANY CONNECTIONS TO THE CONTROLLER AND OTHER VORTEX ELECTRICAL PANEL SHOULD BE HARD-WIRED TO A GROUND FAULT PROTECTIVE DEVICE (FOR SLAB ON GRADE, ETC.) MUST BE DONE IN ACCORDANCE WITH THE LATEST ISSUES OF ACI-318 AND ACI 317 OR ACNOR CAN3-A23.1 & A23.2, SATISFACTORY MATERIALS ARE THE SOLE PROPERTY OF VORTEX AQUATIC STRUCTURES INTERNATIONAL’ FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

3. WIRING FROM THE CONTROLLER TO EACH ACTIVATOR SHALL BE #22 AWG. A MINIMUM WIRE SIZE OF #10 AWG. IS RECOMMENDED FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

4.6.2 CONCRETE POURED INTO FORMWORK BUT EXPOSED TO SOIL AND WEATHER FOR 48 HOURS, SHALL BE REJECTED. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE SATISFACTORY MATERIALS ARE THE SOLE PROPERTY OF VORTEX AQUATIC STRUCTURES INTERNATIONAL’ FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

4.6.3 USE MAXIMUM 76mm (3") SLUMP, 19 MM (3/4") AGGREGATE, UNLESS OTHER INSTRUCTIONS ARE PROVIDED BY VORTEX.

4.6.4 CONCRETE THAT HAS BEEN IN THE TRUCKS LONGER THAN 2 HOURS SHALL BE REJECTED. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE SATISFACTORY MATERIALS ARE THE SOLE PROPERTY OF VORTEX AQUATIC STRUCTURES INTERNATIONAL’ FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

4.6.5 MINIMAL RE-BAR COVER: 3 INCH (75MM) MINIMUM RE-BAR COVER IS RECOMMENDED. A MINIMUM WIRE SIZE OF #10 AWG. IS RECOMMENDED FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

4.6.6 CONCRETE MIX USED FOR COOL WATER CONCRETE MIXES SHALL BE NO FASTER THAN 45 MPa (6500 PSI) UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE SATISFACTORY MATERIALS ARE THE SOLE PROPERTY OF VORTEX AQUATIC STRUCTURES INTERNATIONAL’ FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

4.6.7 MEMORANDUMS/NOTES TO DRAWINGS DEEMED NECESSARY FOR PROPER WINTERIZATION.

5.1 COURSE OF WOF, BOLTED IN PLACE OF BOLTED IN PLACE OF THE STEEL PLATE, USE EPDM O-RINGS/STATIONARY RECOMMENDED. A MINIMUM WIRE SIZE OF #10 AWG. IS RECOMMENDED FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

5.2 BOLT-TIGHTENING TO THE CONTROLLER OR OTHER VORTEX ELECTRICAL PANEL SHALL BE PERFORMED USING AN APPROVAL NAM. A MINIMUM WIRE SIZE OF #10 AWG. IS RECOMMENDED FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

5.3 MEMORANDUMS/NOTES TO DRAWINGS DEEMED NECESSARY FOR PROPER WINTERIZATION.

5.4 BOLT-TIGHTENING TO THE CONTROLLER OR OTHER VORTEX ELECTRICAL PANEL SHALL BE PERFORMED USING AN APPROVAL NAM. A MINIMUM WIRE SIZE OF #10 AWG. IS RECOMMENDED FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

5.5 USE EQUAL TEMPERATURE OF 25 DEGREES CELSIUS WHILE POURING. IT IS THE CONTRACTOR’S RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS ARE SATISFIED. ANY CONCRETE THAT DOES NOT CONFORM MUST BE REJECTED. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE SATISFACTORY MATERIALS ARE THE SOLE PROPERTY OF VORTEX AQUATIC STRUCTURES INTERNATIONAL’ FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

6.3 SLAB TO BE MINIMUM 6 INCHES THICK, REINFORCED IMMEDIATELY BEFORE POURING THE CONCRETE. WATER AS NEEDED. DO NOT USE A VAPOR RESTRICTIVE DECONTRIBUTI"

6.4 3500 PSI (250 MPa). USE 1" (25mm) GROUT UNDER ALL STEEL COLUMN BASE PLATES. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE SATISFACTORY MATERIALS ARE THE SOLE PROPERTY OF VORTEX AQUATIC STRUCTURES INTERNATIONAL’ FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND PROJECTS IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL’S BEST RECOMMENDATIONS FOR ALL NON-SPRAY ZONE & FEATURE PLAN1

6.5 400MPA (60,000 PSI), UNLESS OTHERWISE NOTED.

6.6 SPRAY ZONE & FEATURE PLAN1

7.1 COLD WEATHER REQUIREMENTS APPLY WHEN THE MEAN AIR IS LESS THAN 5 DEGREES CELSIUS, AS PER LOCAL CODE.

7.2 400MPA (60,000 PSI), UNLESS OTHERWISE NOTED.

7.3 ALL SNOW AND ICE SHALL BE REMOVED FROM FORMS AND REBAR WITH STEAM BLA"
1. REFER TO SPECIFICATIONS ON A-001
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.
SAFESWAP ANCHORING DETAIL

1. Safeswap No1 Anchor TYP

2. Safeswap No2 Anchor TYP

3. Spray Loop

4. Ground Feature Anchor (3/4" Inlet)

5. Ground Feature Anchor TYP (Inlet 1 1/2")

6. Installation Kit Safeswap No1 Anchor

NOTE: "INSTALLATION CONTRACTOR MUST REFER TO SERVICE PROCEDURE COVERED FROM THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATIONS FOR DETAILS OF RESPONSIBILITY."
**South Ridge Splashpad**

**South Ridge Splashpad**

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

**Project Location:** Hoffman Estates, IL

**Project Number:** 24012

**Sheet #:** C-002

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**Playsafe Drain No1**

C-002

**VOR-1001.4000**

Playsafe Drain No1

9" [23cm] TOP OF ANCHOR STUD

2'-6" [76cm] 4 X 3 4" (20mm) S.S. HEIGHT & LEVELING CONTROL ANCHOR STUDS WITH HARDWARE (BY VORTEX)

DRILL & EPOXY GROUT STUDS (DONE BY INSTALLER)

3" x 30" x 30" (0.075x0.76m x0.76m) CONCRETE LEVELING BASE. (SUPPLIED BY INSTALLER).

CONCRETE SURFACE. VERIFY LOCAL CODES FOR TYPE, THICKNESS & REINFORCEMENT REQUIREMENTS (BY INSTALLER)

ANCHORING SYSTEM TO BE INSTALLED LEVEL, PLUMB & FLUSH TO FINISHED GRADE (BY INSTALLER)

3 8" (10mm) BONDING STUD CONCRETE SLAB

WATER LINE OUTLET 8" (200mm). MIN. 1% SLOPE. (LINE CONNECTION SUPPLIED BY INSTALLER)

1'-9" [53cm] MIN EXPANDED POLYPROPYLENE DRAIN BOX FOAM (BY VORTEX)

Min 1% SLOPE

COMPACTED GRANULAR (SUPPLIED BY INSTALLER)

Min 1 2" [1cm] MIN

STRAINER BASKET (SOLD SEPARATELY)

PLAN VIEW

FRONT ELEVATION VIEW
**Feature Connection Table**

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<tr>
<th>Feature Code</th>
<th>Ref.</th>
<th>Feature</th>
<th>Qty</th>
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**Product Legend**

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<tr>
<td>EIA</td>
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<td>Bollard Activator No3</td>
<td>1</td>
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<tr>
<td>EIB</td>
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<td>Bollard Activator No3</td>
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<td>IC</td>
<td></td>
<td>Water Distribution System; EMM</td>
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<tr>
<td>IE</td>
<td></td>
<td>3&quot; City Water Line @ 50PSI (by Installer)</td>
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<tr>
<td>IF</td>
<td></td>
<td>8&quot; Line to Municipal Drain (by other)</td>
<td>2</td>
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<tr>
<td>IC</td>
<td></td>
<td>4&quot; TYP Drain Line With Strainer Connected to Drainage System. Ensure P-Trap is Below Frost Line to Prevent Freezing. (by Installer)</td>
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<tr>
<td>IC</td>
<td></td>
<td>Pressure Regulator (by Vortex)</td>
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<tr>
<td>IC</td>
<td></td>
<td>Backflow Preventer (by Vortex)</td>
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<tr>
<td>IE</td>
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**Electrical Line Connections Controller Outputs**

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**Electrical Line Connections Power**

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<td>Main Power Line</td>
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</tbody>
</table>

**Water Line**

- WATER LINE: ____________________________
- ELECTRICAL LINE: ____________________________

1. RECOMMENDED SLOPE: 2% TOWARDS DRAIN.
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

**PLUMBING & ELECTRICAL LAYOUT**

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

**PLUMBING & ELECTRICAL LAYOUT**

**SCALE: 3/16"=1'-0"**

1. RECOMMENDED SLOPE: 2% TOWARDS DRAIN.
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.
WINTERIZING DRAIN PIT

4" TYP DRAIN LINE WITH STRAINER

WALL MOUNTED COMMAND CENTER WITH INTERVAL OF 5 VALVES POSITIONS, MAESTRO CONTROLLER

ALTERNATE WINTERIZING DRAINAGE CONFIGURATION LAYOUT

Plumbing Details

1. SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL.
2. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
3. NOTE:
4. WATER OUTLET ARE FEMALE NPT CONNECTIONS
5. BY INSTALLER/BY CONTRACTOR MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.
1. Refer to specs on A-001
2. Coordinate this drawing with architectural, civil, plumbing & electrical.

Bonding wire ---------------
NOTE:
1. Ensure enough clearance for the door opening.

Referring to the piping and electrical sheet for the controller number.

1 - Ensure enough clearance for the door opening.

16 out / 8in

ED-001

South Ridge Splashpad

Electrical Details

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 6th 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.
5. For power requirements, refer to schematic drawing of corresponding Maestro.
6. If multiple Maestro slaves required, each unit requires an individual Ethernet cable.
7. Water tight connections with Maestro done by installer. If more connections are needed, then it requires an ETH expansion module.
8. Water reuse

South Ridge Splashpad

VORTEX USA Inc.

Hoffman Estates, IL

Project Number: 24812

Electrical Details

Sheet: ED-001

Dimensions

Maestro Controller

16 out / 8in

1 ED-001

Maestro Controller

16 out / 8in

2 ED-002

Water reuse

Water reuse

3 - For any input, 24 VAC 250mA max supplied by Maestro. Refer to the corresponding schematic drawing manual for wiring details.
5 - For power requirements, refer to schematic drawing of corresponding Maestro.
6 - For any input, 24 VAC 250mA max supplied by Maestro.

NOTE:

1. A maximum of 4 Ethernet CAT6 connections are available per Maestro. If more connections are needed, then it requires a 6th 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.
5. For power requirements, refer to schematic drawing of corresponding Maestro.
6. If multiple Maestro slaves required, each unit requires an individual Ethernet cable.
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(s) from the input power source. All electrical work should be performed by a licensed electrician in accordance to local electrical construction and safety codes.

VORTEX USA Inc.

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Email: info@vortexusa.com

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Aqua Dome No1

Bobble No1

Bollard Activator No3

Hello No 5

Hello No 6

Snail No4

TYPICAL ANCHORING SAFE SWAP Nº1.

FOR THIS APPLICATION, 2" NPT FEMALE COUPLING OF THE SAFE SWAP Nº1 WILL BE USED TO CONNECT THE ELECTRICAL CONDUIT, SUPPLIED BY INSTALLER, AND RUN THE ELECTRICAL CABLE.

ELECTRICAL CABLE SPECIFICATION

M12-5PIN CONNECTOR CABLE, 22AWG, MAXIMUM O.D. : 0.25" (SUPPLIED UP TO 75M WITH ACTIVATOR BY VORTEX)