

METHOD STATEMENT

SCOPE AND VALIDITY

Brief description of the work to be performed	<p><i>Signal-on-Sea</i> has been presented in multiple locations in Europe. In July 2021, the installation will be installed at Irvine beach by Cryptic. The information provided in this document has been compiled based on experience from previous installations.</p> <p>Main work to be completed: Install of 20 Speakers on 10 Poles at Irvine Beach and install of 3.3km of sound cable underground. Described below.</p>		
Method statement reference number	SoS01	Method statement revision number	N/A
Company the work is being performed for	Cryptic	Project name	<i>Signal-on-Sea</i>
Address / location of where the work is being performed	Irvine Beach, Irvine KA128FA	Date / time from Installation day	Monday 12th July 2021 06:00am - 06:00pm (LOW TIDE 07:34am)
		Date / time to Get out	Monday 26th July 2021 06:00am - 06:00pm (LOW TIDE 07:25am)
Prepared by	Jeroen Strijbos Rob Van Rijswijk	Authorised by:	Konstantinos Christakos

ARRANGEMENTS

Other arrangements	The poles are made by steel tubes and weigh 35kg each. These are easily handled by 2 crew members. The cables will be hidden inside the poles. Construction company J&B scenery, Dumbarton G82 3PD.		
Name and contact details during working hours	Konstantinos Christakos [Redacted]	Name and contact details out of working hours	Konstantinos Christakos [Redacted]

EQUIPMENT / TOOL LIST

Type	Details of inspections / test certificates
20 Speakers	CE/waterproof long throw speakers, each 4.5Kg, maximum on each pole 9.2Kg
Bolts and Safety nuts	160mm length M8 Bolts with Safety Nuts and washers
10 Poles	6m long, 130mm diameter Steel Tubes, each 35kg
Excavator	We will use an Excavator with an Earth Auger 150mm diameter
ATV or Gator	Vehicle designed to move on any terrain, to carry equipment and tow the Cable digger/Plough

Cable digger Plough	To be sourced / made by expert
A Frame Ladder	A Frame Ladder 3m maximum height

WORKFORCE DETAILS		
Name	Post	Contact number
Konstantinos Christakos	Production Manager	[Redacted]
Natalie Welsh	Production Assistant	*
Iain Smith	Sound Technician	*
Rachel Cullen	Sound Technician	*
Excavator operator	TBC*	*
4 Events Crew	TBC*	*
2 Security Crew	TBC*	*
2 Marshals / Vigilant Team	TBC*	*

PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIREMENTS	
Head	Yes
Foot	Yes
High visibility vest / jacket	Yes
High visibility trousers	No
Hand	Yes
Eye	No
Hearing	No

DESCRIPTION OF THE METHOD / SEQUENCE OF WORK AND PLANS

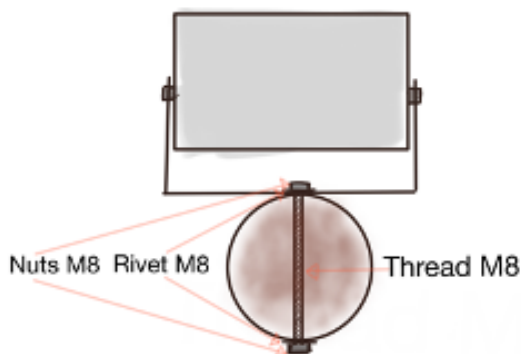
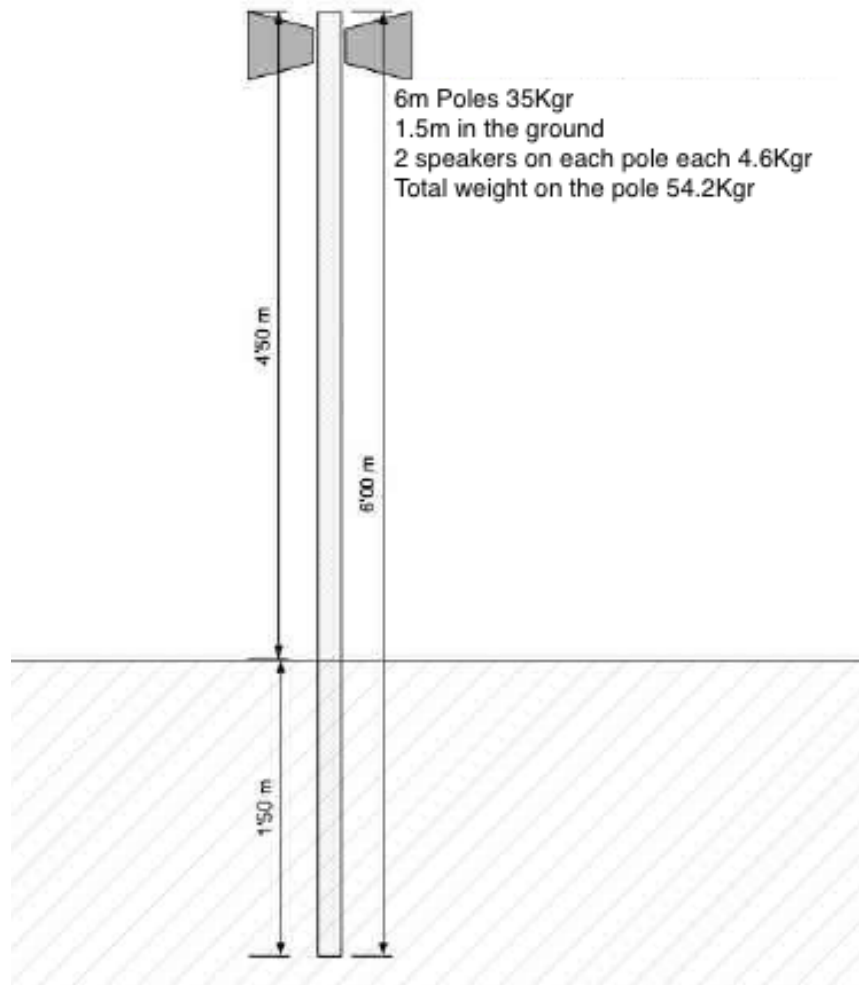
Signal-on-Sea General information / Dates / Vehicles



- **Friday 9th July:** Anti-vandal container unit 20ft*8ft will be delivered to CONTROL POSITION (am*). Container will be levelled by supplier, Production Manager to supervise.
- **Sunday 11th July:** Production team and core technical team to visit Irvine beach (Separate meeting with security and vigilant team - introduction to plan). Final evaluation/condition of the beach and actual tide levels. Re-assess plan/adjust distances between poles if needed.
- **Monday 12th July:** Early start 6am for all teams. Open Truck arrival – delivery of poles, Transit Van with Sound/speaker equipment, Cryptic Transit Van, Production - Crew Cars (Because of Covid-19 all participants will travel with their own vehicle/Approximately 16 vehicles) all to be parked at production parking for easy access. Arrangements with the council prior to event will be made to control the Gate to Production parking/access to CONTROL UNIT. Use of temporary fencing for the gate. Generator arrival (am*) location 20m from CONTROL UNIT. Use of hazard tape to tape off areas during install.

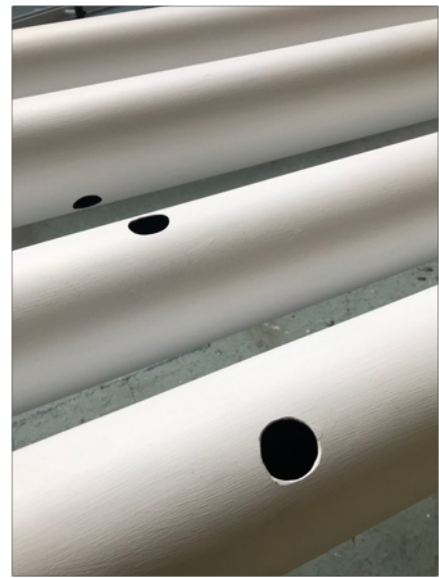
Signal-on-Sea Poles Installation / Steel Tubes 130mm diameter and 6m length

- Principle: 6m poles at Irvine Beach, 1.5m in the sand, 4.5m above the ground. We will attach the speakers on poles while the poles are on the ground to avoid working at height. Total weight for pole and speakers 54.2Kg.
- The poles and speakers and cable reels will be delivered to CONTROL Unit and will be carried at the beach by Crew, next to PI to be distributed.
- The process described below will be repeated for 10 poles.
- Each pole will be carried into place by the Crew and be prepped by install team (5 Crew)
- Speakers, extra equipment and Cable reels to be delivered to each position by ATV - Gator.



- Each pole will be carried into place by the Crew and be prepped by Install team (5 Crew). Poles will be drilled at the top and Speakers will be attached with Bolts - washers and safety Nuts. (Picture to the left)

- The poles will arrive in Irvine with a steel wire attached in them, from the top to the pre-made holes (Picture to the right) in order to guide the sound cables through the pre-made holes to the top. When the sound cables are connected to the speakers at the top, we will leave 2.5m slack cable in the tube and tape with Gaffer Tape the pre-made hole to protect the cable and secure it. Extra safety wire to be installed at the top of the pole to secure speakers. During this process the crew will attach the handles /single rung on the poles for manual handling (Bolted on 1.70m height)



- When the poles are ready, the Excavator/Earth Auger will dig a hole. Before the Excavator lifts the Auger from the ground, the Crew will lift the pole to the upright position. Depending on the quality of the sand and how quick the sand falls back into the hole we will have to move the pole in the hole as soon as possible. When the pole is in the ground the Crew using shovels will replace sand back to position. In case the sand falls back into the hole very quickly, we will use a plastic half tube/drain to guide the pole into the sand

- If for any reason the pole is not secured/stable in the ground, we will lift the pole and dig a deeper hole.
- Before we move on to the next pole, we will detach the handle to use it to the next pole/position.
- Moving to the next pole/position the area will be supervised. We give priority to the Excavator to move. As soon as the Excavator is in place, we will repeat the process above.



Signal-on-Sea Poles De-Install get out 26th July 2021

- **Monday 26th July:** Same practice will be followed for the de-install of the poles / Parking vehicles / extra crew / security and vigilant team.
 - De-install: The 2.5m slack cable in the pole has to be released. The handles will be attached to the poles and we will use lifting slings to slightly lift the poles from the ground with the help of an excavator. As soon as the poles are lifted 50cm the crew will take over.
 - The speakers will be detached and the poles will be carried by the crew back to the CONTOL unit area. The process will be repeated for all 10 poles.

Signal-on-Sea Poles Installation / Install Sound Cables on the Ground.

- When the pole is installed and secured the cable installation team (3 Crew) using ATV/Gator will tow a Cable Digger /Plough to dig the cable 30cm deep.
- ATV/Gator with Tow ball will be hired for the installation day. The Cable Digger/Plough will be sourced/made by an expert specifically for *Signal-on-Sea*. We are already in touch with a professional craftsman and we will test the equipment prior to the event. We are aiming to use a smaller scale cable digger using the principle of tools that have already been used in Agriculture.



- The process above describes the process from PA to PG.
- Cable installation team will dig next to the pole no deeper than 35cm to allow the Cable Digger/Plough to sit in place.
- The cable will be laid from PA to PG and will be guided and secured in the digger tube.
- The cable installation team will take positions, Driver - operator controls the vehicle/member of the crew guides the cable through the towed cable digger/member of the crew walks alongside the vehicle to watch for hazards and give instructions.
- The ATV moves with the Cable Digger/Plough close to the pole position PG. The crew release the cable from the tube and leave the cable reel stand by. When the install of pole PG is complete then the Cables from PA and cables from PG will be guided and secured again in the digger tube to continue the route back to PI.
- The above process will be repeated for positions poles, PB, PC, PD and PE.



➔ **Cables routes that will be dug together for convenience and record:**

- ➔ ☐ Single route PF cables back to PH
- ➔ ☐ Single route PA to PF
- ➔ ☐ Single route PA and PF cables to PH
- ➔ ☐ Single route PB to PG
- ➔ ☐ Single route PB and PG cables to PH
- ➔ ☐ Single route PC to PH
- ➔ ☐ Single route PD to PH
- ➔ ☐ Single route PE to PI
- ➔ ☐ Single route PJ cables to PI

From Pole PI back to the control, we will have groups of cables dug underground. This process will take more time as we will not be able to use the Cable Digger. Cable team will carefully install the cables underground without damaging the dune and the flora. Tools to be used: Shovels, Grass Edger and Digging How. This area is inside the RED ZONE.

Signal-on-Sea Cables De-Install get out 26th July 2021

☉ **Monday 26th July:** Same practice will be followed for the Cables de-install regarding Red - Yellow - Purple Zones/ Parking vehicles, extra crew/security and vigilant team.

- De - install: We will use the same Cable Digger /Plough to de-install the cables by running the Plough next to the dug cables. We might have to repeat the process twice if the cables are not released.
- Use of ATV vehicle will follow similar practice with install. One driver and one crew to watch for hazards and give instructions. A third member of the crew to release the cable.

★ In case the Cable Digger/Plough with the ATV and the excavator make marks or dig the sand making uneven surfaces, a member of the crew will be assigned to level the sand with the use of a rake and Garden Roller.