## Atijera, Evamarie (CPC)

From: Sent: To: Cc: Subject: Lindsay, Ashley (CPC) Thursday, July 06, 2017 1:01 PM **Tony Phillips** Matthew Nickel; Steve Barich; Atijera, Evamarie (CPC) RE: Request to Withdraw Comcast LOD's - San Francisco

Hi Tony,

No worries, thank you for the withdrawal confirmation.

Kind regards,

Ashley Lindsay Current Planning + Wireless Specialist Planning Department, City and County of San Francisco 1650 Mission Street, Suite 400, San Francisco, CA 94103 Email: Ashley.Lindsay@sfgov.org Direct: 415-575-9178

Property Information Map (PIM): http://propertyman.sfplanning.org

From: Tony Phillips [mailto:Tony.Phillips@sacw.com] Sent: Thursday, July 06, 2017 11:25 AM To: Lindsay, Ashley (CPC) Cc: Matthew Nickel; Steve Barich Subject: Request to Withdraw Comcast LOD's - San Francisco

Good Afternoon Ashley-

I apologize for not getting back to you on this sooner. I was waiting for our client to "Officially" approve the withdrawal.

Please let this e-mail serve as our request to withdraw the (3) LOD applications listed below.

Thanks again for all your help.

- 1900 Market Street R # 2017-007829 ZAP
- 2001 Van Ness 2599 San Bruno.

Tony Phillips

Tony Phillips I Zoning & Permitting I Mobile: 847-331-3659 SAC Wireless I 540 W. Madison, 17th Floor, Chicago, IL 60661 tony.phillips@sacw.com

From: Lindsay, Ashley (CPC) [mailto:ashley.lindsay@sfgov.org] Sent: Thursday, July 06, 2017 11:34 AM To: Tony Phillips < Tony.Phillips@sacw.com> Subject: Request to Withdraw LODs

Good morning Tony,

1

- R # 2017-007830 ZAD - R # 2017-007832 ZAD

LOD'S WITHDRAWN



R#2017-007829 ZAD CK # 60773 \$ 664.-A. LINDSAY (WIRELESS)

June 8, 2017

Mr. Scott Sanchez Zoning Administrator San Francisco Planning Department 1650 Mission Street, Suite 400 San Francisco, CA 94103

#### RE: Letter of Determination Request – Comcast Machine Q – 1900 Market Street

(0872/001)

Dear Mr. Sanchez;

My firm is representing Comcast for the Leasing, Permitting and Installation of their latest technology called Machine Q. Machine Q is a low power network that is part of the Internet of Things (IoT). From Smart Communities and Infrastructure where Utilities, Waste Management, Temperature and Lighting can be monitored, to Transportation and Logistics. Machine Q is a flexible cost-effective solution suitable for a wide range of applications targeted towards Municipalities and Utilities.

We are currently seeking approval for the installation of Machine Q antennas on the existing Billboard at **1900 Market Street - Block 0872 Lot 001 – Planning District 6 – Buena Vista** 

The installation consists of 2 – 28" Omni Antennas, an 8" LTE Antenna, a 3" GPS antenna and a small Gateway Unit. This is all powered by a Unit Called PoE (Power over Ethernet). The Total weight of these items without mounting brackets is less than 12lbs. There will be no ground disturbance and minimal visual Impact. I've attached a copy of the proposed drawings, photo simulations, and spec sheets.

Hard copies of these documents along with a check for \$664.00 will be overnighted to your department.

We greatly appreciate you taking the time to review our request. I can be reached at 847-331-3659 should you-have any questions.

Best Regards Tonv Philli

Zoning & Permitting Lead SAC Wireless for Comcast 540 W. Madison – 17<sup>th</sup> Floor Chicago, IL 60661 847-331-3659 tony.phillips@sacw.com

# **KONA Macro IoT Gateway**

High Capacity LoRaWAN Gateway for Widea Area Deployments

TEKTELIC's KONA Macro IoT Gateway provides network operators with a carrier grade product for the deployment of LoRaWAN Internet of Things networks. The Gateway enables massive scalability in a compact form factor by supporting up to 12 million messages per day.

It is ideal for public and private network operators that require Full Duplex, mulitiple Rx and Tx Channels, cost effective and reliable LoRaWAN gateways to maximise their network investment for years to come.

## **Product Differentiators:**

- High availability carrier grade design with support of in-service configuration and software updates.
- Environmentally hardended aluminum enclosure fully tested to withstand extreme temperature conditions.
- Full duplex operation making all receive and transmit channels availabe simultaniously.
- Excellent isolation between the Tx and Rx bands as well as out of band rejection of Cellular and Paging networks.
- Day-One scalability with support of up to 12 million received messages per day.
- Easy to deploy supporting different backhaul and power options.
- Fully integrated with the broader eco-system of LoRa<sup>™</sup> network servers and sensors.



# **Key Features**

NA, EU and other ISM Bands Full Duplex 72 Rx and 4 Tx Channels (NA) Up to 12 million messages per day Precise Network Synchronization (GPS) Localization Support 1 Watt (30 dBm) Tx Power Hardened Carrier Grade Enclosure Backhaul Connectivity (ETH / 3G / 4G)



+1.403.338.6900

# **KONA Macro IoT Gateway**

High Capacity LoRaWAN Gateway for Widea Area Deployments

#### Technical and Functional System Specifications

Mechanical Parameters	
MTBF	15 years
DC POwer Consumption	< 40 W (POE++)
Operational Temperature	-40°C to +55°C
Operational Humidity	10% to 100% Condensing
Ingress Protection	IP67
Size	222 x 265 x 97 mm
Weight	4 kg
Volume	5.5 L

LoRa Radio Parameters	
ISM NA Band	902 - 915 MHz (Rx)
	923 - 928 MHz (Tx)
Tx Power	2 x 1W (2 x 30 dBm)
Rx Sensitivity	-142 dBm (SF12, 293 bits/sec)
Rx Noise Figure	4 dB
Rx Linearity	-10 dBm
Rx Dynamic Range	70 dB Analog, 100+ dB Digital
Tx to Rx Isolation	75 dB

Interfaces					
Ethernet Backhaul	RJ-45 (POE Capable)				
GPS	N-Type				
Cellular Backhaul (3G/4G)	N-Type (Optional)				
Hybrid Optical and DC Power	Harting Hybrid (Optional)				
LoRa Antenna (2 ports)	N-Type (2nd Port Optional)				
Power	-48VDC				
Regulatory Compliance					
Safety	UL 60950-1 (US/C), IEC 60950-1 (CE)				
Environmental	ETSI EN 300 019-2-1, 300 019-2-2				
	ETSI EN 300 019-2-3, 300 019-2-4				
Regulatory	FCC Part 15				
	ETSI EN 300 489-1/4, ETSI EN 302 326				

Software and Management	
GUI	Embedded Managment Webpage Auto-discoverable over IP
Tools	Access Control List managment 3G/4G Parameter Configuration System Health Monitor Flight Recorder Radio Configuration and Control Remote Software Upgrade Active and Passive image management
Networking	DHCPv4 client TFTP server HTTP server Firewall and Access Lists







Specifications subject to change without notice.

At TEKTELIC Communications we develop and build high performance wireless products including Small Cell Base Stations, Wireless Backhaul Systems, High Power Radios, Amplifiers and IOT Gateways.

For more information please visit www.tektelic.com



## WWW.TEKTELIC.COM

+1.403.338.6900

## **INFO@TEKTELIC.COM**



# 840...925 MHz



-

# 7553xxx

Single Band | Omni-Directional | Colinear | V-Pol | 360° | 5.1 dBi | Fixed Electrical Tilt

- Rugged and durable UHF colinear antenna designed for Telemetry, Paging and Trunked Radio applications
- Housed inside a a high-strength glass fibre shroud
- Includes an integrated mounting clamp allowing easy installation on poles or horizontal rails
- Robust antenna design insures reliable operation in harsh environmental conditions

#### **Ordering Options**

Replace "xxx" in the model number with one of the options below to signify the desired frequency band

	Model Number	Frequency Band			
Model Number Options (xxx)	7553865	840-890 MHz			
	7553893 860-925 MHz				
Electrical Characteristics					
Frequency Band	See Options Listed Above				
Polarization	Vertical				
Horizontal Beamwidth	360°				
/ertical Beamwidth	35°				
Gain	3.0 dBd (5.1 dBi)				
mpedance	50Ω				
VSWR	< 1.5:1				
Power Rating	150 W				
Connector Type	N Female + 0.5 m RG213 cable				
Lightning Protection	DC Grounded				
Mechanical Characteristics		A REAL PROPERTY.			
Shroud Material / Color	Glass Fibre (Ø21mm) / White				
Mounting Section Material	Aluminium				
Dimensions (Length)	730 mm	28.7 in			
Weight without Mounting Brackets	0.5 kg	1.1 <mark>ib</mark> :			
Wind Load @ 160 km/hr (100 mph)	35 N	7.9 lb			
Mounting Options					
Mounting Bracket Kit	Integral mounting clamp and V b	olts for pipe or horizontal rail			
Fits Pipe/Rail Diameter	38-50 mm 1.5-2.0				



# 7553xxx

Single Band | Omni-Directional | Colinear | V-Pol | 360° | 5.1 dBi | Fixed Electrical Tilt



**Return Loss** 



Gain Chart



Note: Return loss, gain and patterns are for the 860-925 MHz model



## 7553xxx

#### Single Band | Omni-Directional | Colinear | V-Pol | 360° | 5.1 dBi | Fixed Electrical Tilt

Assembly & Mounting Instructions	
Please read these instructions fully before	pre commencing
Tools Required	13 mm A/F Spanner
Mounting (see mounting variations section)	Securely fix mast clamp to vertical or horizontal mounting rail as required. Tighten fixings to required torque (M8 = 20Nm). Ensure adequate lightning protection. Envelope is provided by installation.
Connection	Ensure connector is clean and dry. Mate with feeder cable connector. Cover with plastic sleeve and seal in customer approved manner. Ensure cable routing is not stressed. Cable minimum bend radius is 51.5 mm.

Maintenance

Annual VSWR and visual inspection for loose or missing parts should ensure stated performance is maintained.

**Mounting Variations** 





# 7553xxx

Single Band | Omni-Directional | Colinear | V-Pol | 360° | 5.1 dBi | Fixed Electrical Tilt





# SITE ID: SFO-CA-M-N-0000039-T64

# SITE ADDRESS: 1900 MARKET STREET, SAN FRANCISCO, CA 94103

# VICINITY MAP PHOTOSIMULATION VIEWPOINTS





540 W. MADISON ST.,17TH FLOOR, CHICAGO, IL 60661.



1825 W. WALNUT HILL LANE, SUITE 302 IRVING, TEXAS 75038 1-855-669-5421



SITE ID: SFO-CA-M-N-0000039-T64

# SITE ADDRESS: 1900 MARKET STREET, SAN FRANCISCO, CA 94103

# PHOTOSIMULATION VIEW 1

LOOKING NORTH





540 W. MADISON ST.,17TH FLOOR, CHICAGO, IL 60661. www.sacw.com



1825 W. WALNUT HILL LANE, SUITE 302 IRVING, TEXAS 75038 1-855-669-5421



SITE ID: SFO-CA-M-N-0000039-T64

# SITE ADDRESS: 1900 MARKET STREET, SAN FRANCISCO, CA 94103

# PHOTOSIMULATION VIEW 2

LOOKING NORTHEAST





540 W. MADISON ST.,17TH FLOOR, CHICAGO, IL 60661.



825 W. WALNUT HILL LANE, SUITE 302 IRVING, TEXAS 75038 1-855-669-5421



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TRUCTION DRAWINGS		



1. THIS FACILITY IS AN UNMANNED CELLULAR TELEPHONE EQUIPMENT FACILITY. THE OCCUPANCY CLASSIFICATION IS U [2016 CBC, TITLE 24, PART 2, VOLUME 1, SECTION 312, AND SECTION 307.1.1 EXCEPTION #9].

GENERAL NOTES:

- 2. THIS FACILITY IS EXEMPT FROM ACCESIBILITY REQUIREMENTS PER 2016 CBC SECTION 11B-203,5 THIS FACILITY IS NON-OCCUPIABLE SPACE AND ENTERED ONLY BY SERVICE PERSONNEL, THIS SPACE IS NOT FOR HUMAN OCCUPANCY.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING HIS BID. ANY DISCREPANCIES, CONFLICTS OR OMISSIONS SHALL BE REPORTED TO THE ARCHITECT / ENGINEER PRIOR TO SUBMITTING BIDS, AND PROCEEDING WITH ANY WORK.
- THE CONTRACTOR SHALL NOTIFY ARCHITECT / ENGINEER OF ANY ERRORS OMISSIONS, OR DISCREPANCIES AS THEY MAY BE DISCOVERED IN THE PLANS SPECIFICATIONS, & NOTES PRIOR TO STARTING CONSTRUCTION. INCLUDING BUT NOT LIMITED BY DEMOLITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY ERRORS, OMISSION, OR INCONSISTENCY AFTER THE START OF CONSTRUCTION WHICH HAS NOT BEEN BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL INCUR ANY EXPENSES TO RECTIFY THE SITUATION. THE METHOD OF CORRECTION SHALL BE APPROVED BY THE ARCHITECT / ENGINEER RESPONSIBLE OF THE PROJECT.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR HAS THE RESPONSIBILITY TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON THE PLANS, AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR OR SUBCONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGE TO THE UTILITIES CAUSED DURING THE EXECUTION OF THE WORK. CONTACT USA DIG ALERT @ 800-227-2600
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL PROTECT ALL AREAS FROM DAMAGE WHICH MAY OCCUR DURING CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING SURFACES, STRUCTURES OR EQUIPMENT SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE PROPERTY OWNER. THE CONTRACTOR SHALL BEAR THE EXPENSE OF REPAIRING OR REPLACING ANY DAMAGED AREAS.
- A COPY OF THE APPROVED PLANS SHALL BE KEPT IN A PLACE SPECIFIED BY THE GOVERNING AGENCY, AND BY LAW SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL CONSTRUCTION SETS REFLECT THE SAME INFORMATION AS THE APPROVED PLANS. THE CONTRACTOR SHALL ALSO MAINTAIN ONE SET OF PLANS AT THE SITE FOR THE PURPOSE OF DOCUMENTING ALL AS-BUILT CHANGES, REVISIONS, ADDENDA, OR CHANGE ORDERS. THE CONTRACTOR SHALL FORWARD THE AS-BUILT W/ REDUNED DRAWINGS TO THE ARCHITECT / ENGINEER RESPONSIBLE OF THE PROJECT AT THE CONCLUSION OF PROJECT.
- 8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE SECURITY OF THE SITE WHILE THE WORK IS IN PROGRESS UNTIL THE JOB IS COMPLETE,
- 9. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE TEMPORARY POWER, WATER, AND TOILET FACILITIES AS REQUIRED BY THE PROPERTY OWNER OR GOVERNING AGENCY.
- 10. ALL CONSTRUCTION THROUGH THE PROJECT SHALL CONFORM TO THE LATEST C.B.C. AND ALL OTHER GOVERNING CODES, INCLUDING THE CALIFORNIA ADMINISTRATIVE CODES TITLE 8, 19, AND 24. THE MOST RESTRICTIVE CODE SHALL GOVERN.
- 11. THE CONTRACTOR AND SUBCONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS INCLUDING ALL OSHA REQUIREMENTS.
- 12. WHEN REQUIRED STORAGE OF MATERIALS OCCURS, THEY SHALL BE EVENLY DISTRIBUTED OVER THE FLOOR OR ROOF SO AS NOT TO EXCEED THE DESIGNED LIVE LOADS FOR THE STRUCTURE. TEMPORARY SHORING OR BRACING SHALL BE PROVIDED WHERE THE STRUCTURE OR SOIL HAS NOT ATTAINED THE DESIGN STRENGTH FOR THE CONDITIONS PRESENT
- 13. THE CONTRACTOR SHALL SUPERVISE AND COORDINATE ALL WORK, USING HIS PROFESSIONAL KNOWLEDGE AND SKILLS. HE IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SEQUENCING AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE PROJECT.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN AND PAY FOR ALL PERMITS. LICENSES AND INSPECTIONS WITH RESPECT TO THE WORK TO COMPLETE THE PROJECT, BUILDING PERMIT APPLICATIONS SHALL BE FILED BY THE OWNER OR AUTHORIZED AGENT, CONTRACTOR SHALL OBTAIN THE PERMIT AND MAKE FINAL PAYMENT OF SAID DOCUMENT.
- 15. ALL DIMENSIONS TAKE PRECEDENCE OVER SCALE, DRAWINGS ARE NOT TO BE SCALED UNDER ANY CIRCUMSTANCES.
- 16. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BLOCKING BACKING FRAMING HANGERS OR SUPPORTS FOR INSTALLATION OF ITEMS INDICATED ON THE DRAWIN
- 17. THE CONTRACTOR SHALL PROVIDE THE FIRE MARSHALL OR U.L APPROVED MATERIALS TO FILL/SEAL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES.
- 18. NEW CONSTRUCTION ADDED TO EXISTING CONSTRUCTION SHALL BE MATCHED IN FORM, TEXTURE, MATERIAL AND PAINT COLOR EXCEPT AS NOTED IN THE PLANS.
- 19. THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS HAVING A MINIMUM 2A:10-B:C RATING WITHIN 75FT, OF TRAVEL TO ALL PORTIONS OF THE CONSTRUCTION AREA.
- 20. MATERIALS TESTING SHALL BE TO THE LATEST STANDARDS AVAILABLE AS REQUIRED BY THE LOCAL GOVERNING AGENCY RESPONSIBLE FOR APPROVING THE RESULTS.
- 21. ALL GENERAL NOTES AND STANDARD DETAILS ARE THE MINIMUM REQUIREMENTS TO E USED IN CONDITIONS WHICH ARE NOT SPECIFICALLY SHOWN OTHERWISE.
- 22. ALL DEBRIS AND REFUSE IS TO BE REMOVED FROM THE PROJECT. PREMISES SHALL BE EFT IN A CLEAN BROOM FINISHED CONDITION AT ALL TIMES.
- 23. BUILDING INSPECTORS AND/OR OTHER BUILDING OFFICIALS ARE TO BE NOTIFIED PRIOR TO ANY GRADING AND CONSTRUCTION EFFORT AS MANDATED BY THE GOVERNING AGENCY
- 24. ALL SYMBOLS AND ABBREVIATIONS ARE CONSIDERED CONSTRUCTION INDUSTRY STANDARDS. IF A CONTRACTOR HAS A QUESTION REGARDING THEIR EXACT MEANING THE ARCHITECT OR THE ARCHITECT / ENGINEER RESPONSIBLE OF THE PROJECT SHALL BE NOTIFIED FOR CLARIFICATIONS.

### NOT USED

#### **GENERAL NOTES & SPECIFICATIONS**

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#### SPECIFICATIONS:

#### METALS

- - STRINGERS TYPE

  - GALVANIZED AFTER FABRICATION.
  - 5. ALL ANTENNA SPECS, PER RF DATA SHEET.

#### ELECTRICAL

- - - NECESSARY.

#### STRUCTURAL FRAMING SYSTEM AND EQUIPMENT

1. CABLE LADDERS AT INTERIOR SPACES WHERE INDICATED SHALL BE 1-1/2" SOLID BAR

2. ALL UNISTRUT SHALL BE P1000 (1-5/8").

3. MICROFLECT SHALL BE B 1 1 1 8 (U.N.O.) TO MATCH CABLE TRAY.

4. CABLE RUNS ON ROOF TOP AND OUTDOOR APPLICATIONS, SHALL BE HOT DIPPED

1. REFER TO DRAWINGS FOR SITE SPECIFIC INFORMATION

2. ALL ELECTRIC WORK TO COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE. (REFER TO THE COVER SHEET)

3. ALL INTERIOR SEISMIC UNISTRUT SHALL BE GROUNDED WITH #6 STRANDED COPPER H GREEN JACKET. ALL CONNECTIONS TO BE DOUBLE LUG.

BEFORE STARTING TRENCHING, THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING LINES AFFECTED BY THE CONTRACT AND IMMEDIATELY NOTIFY THE PROJECT MANAGER IF ANY REROUTING OF EXISTING LINES IS



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			THE ELEVATION HEIGHTS BASED UPON INFORMATI AND/OR AVAILABLE DOC INSTALLATION WILL MOT STRUCTURE HEIGHT NO ASSUMES NO RESPONSI OR OMISSIONS THAT MA RESULT OF INCORRECT ON THIS RECORD DOCUM FROM A LICENSED SURV	DISCLAIMER SPECIFIED IN THIS RECORD DRAWING ARE ON GATHERED DURING THE SITE VISIT JMENTS. THE NEW COMCAST OWNI ANTENNA PROTRUDE ABOVE THE EXISTING MORE THAN 24'- 26'. THE ARCHITECT SILITY FOR THE ACCURACY FOR ANY ERRORS HAVE BEEN INCORPORATED INTO IT AS A NFORMATION PROVIDED, PARTIES RELYNG MENT ARE ADVISED TO OBTAIN AN A1 LETTER EYOR FOR VERIFICATION OF ITS ACCURACY.		
TOP OF NEW COMCAST ANTENNAS ELEV. APPROXIMATELY 130'-0" TOP OF EXISTING BILLBOARD ELEV. APPROXIMATELY 120.1-0" BOTTOM OF EXISTING PLATFORM ELEV. TBD.			EXISTING BILLBOARD EXISTING BILLBOARD PLATFORM EXISTING BUILDING	<ul> <li>◆ TOP OF NEW COMCAST ANTENN ELEV. APPROXIMATELY 131-0°</li> <li>◆ RAD CENTER OF NEW COMCAST ELEV. APPROXIMATELY 130-0°</li> <li>◆ TOP OF EXISTING BILLBOARD ELEV. APPROXIMATELY 129.1-0°</li> <li>◆ BOTTOM OF EXISTING PLATFORM</li> <li>◆ TOP OF EXISTING BUILDING ELEV. TBD.</li> </ul>	AAS T ANTENNAS EXISTING EXISTING M NEW POE DC OUT D NEW COM OUTDOOP EXISTING EXISTING EXISTING	BILLBOARD BILLBOARD V CAT & A D GW (10) CAST LPOE INJECTOR BUILDING
GROUND LEVEL ELEV.0'-0' REF.		 		GROUND LEVEL		
SOUTHWEST ELEVATION	ON	0 2' 4'	8' SCALE: 1/8" = 1'-0" (24x36) (OR) 1/16" = 1'-0" (11x17)	2 SOUTHEAST EL	EVATION	





EXISTING FRAME















31" - 36"





POE SURGE PROTECTOR AT POE INJECTOR

OUTDOOR POE INJECTOR

SCALE

N.T.S

