

3050 N.W. 77 Court, Doral, FL 33122 • Tel: 305-557-9911 • Fax: 305-557-9922

May 4, 2020

City of Miami Beach – Office of Capital Improvement Projects 1700 Convention Center Dr. Miami Beach, FL 33139

Sent via E-Mail To: <u>PaolaVega@miamibeachfl.gov</u> (29) Total Pages including attachments

Re: Middle Beach Recreational Corridor, Phase III - ITB No. 2019-002-DF

Subj.: CPR No. 6 – Additional CCTV Work Infrastructure Work within Project Limits (excluding conduits)

Attn: Mrs. Paola Vega - Project Coordinator

Dear Paola,

We herewith submit this Cost Proposal Request (CPR) in the add amount of **\$347,771.05** for the additional work required to complete the CCTV work requested by the City of Miami Beach - from 24th to 46th St. - per the attached sketches created by JRT (approvals by the City also attached). The revised sketches were based off the drawings received via the attached email on February 24, 2020, the additional 2" conduit per the attached eMail received on March 31st, 2020, and a field meeting with MBPD and their design team on April 22nd, 2020. The CCTV Work shown in the areas within 29th and 30th St, between 32nd and 36th, and beyond the end of the beachwalk on the north side at 45th, are <u>NOT</u> included in this CPR.

This proposal includes the materials, labor, equipment, and machinery required to install the electrical equipment racks, field panels & disconnects at the service points, power connections to the new service panels at 27th, 30th, and 43rd, pullboxes, concrete bases & their respective poles, and electrical wiring. This proposal does not include trench compaction, any conduit and pull string work, the CCTV equipment and cameras, material and installation of any low voltage and/or communications cabling, and restoration of new work performed that may need to be restored as a result of work performed pursuant to this CPR.

Work by J.R.T. Construction, Co. Labor, Material & Equipment (See attached breakdown) 10% Overhead & Profit on Self-Performed Work 7.5% Overhead and Profit on Subcontractor Work Subtotal	\$ \$ \$	8,125.00 812.50 23,639.55 32,577.05
Work by F&L Fire & Electrical System, Inc. Labor, Material & Equipment 10% Overhead and Profit Subtotal (see attached proposal)	\$ \$	315,194.00 INCL. 315,194.00
Total of this Change Order Request	\$	347,771.05

The Contract Time will be increased by

At this time JRT cannot determine the impact the additional work herein will cause to the project schedule and Contract Time, because JRT does not know how long the Owner will take to issue a formal approval to the Contingency Draw (for this additional work). As of the date of this CPR, the CCTV underground work is in progress per CPR No. 3R5 and per directives issued by the Owner for the additional work. As soon as JRT determines the impact this additional work causes to the project

To Be Determined

per the project schedule, JRT will proceed to submit a separate Request for Change Order for an extension to the Contract Time, should the work herein cause an impact to the Contract Time.

Subsequent Delays:

This proposal must be accepted within 10 days of the above date, after which time it may be subject to escalation. If not accepted within the stated time frame this proposal will automatically expire. Please proceed immediately and issue a written change order accepting this proposal so that we can proceed with this work. No work will be performed without an official executed change order to our contract. This proposed change is limited to the work described herein, and does not include any other work not specifically listed, or any amounts for additional charges in the sequence of the work, delays, disruptions, rescheduling, extended overhead, acceleration, unforeseen conditions, overtime and/or impact costs. JRT reserves the right to make any additional claims for any and all those related items above mentioned, including any items we might have omitted due to the complexity of this revision or due to unforeseen conditions prior to any final settlement of this contract. Also we reserve the right to claim for additional time for this change order work.

If you have any questions, feel free to contact me at any time.

Sincerely yours, J.R.T. Construction, Co. Jose Arana Project Manager



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	3050 N.W. 77 Court, Doral, FL 33122 • Tel: 305-557-						R	
	CPR NO.: 6 PROJECT NAME: MBRC - Middle Beach Recreational Corridor, Phase 3 PROJECT ADDRESS: 24th to 46th St DESCRIPTION OF WORK: Additional CCTV Work Infrastructure Work within Project L	.imits (e			4, 2020 Juits)			
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	Total Costs and Credits (sum of it	tems i	n bold	& in	nighlight a	above)	\$	347,771.05

F&L

Fire and Electrical System, Inc.

2271 West 80 Street A2 Hialeah, Florida 33016 Phone: 786-267-0684 m@flfelectric.com State License: EC13007054

Proposal:

The following is a construction estimate for electrical work presented to:

J.R.T. Construction, co. 8857 NW 117 ST Hialeah Gardens, FL 33018

Project Address: **MBRC-Phase III** City of Miami Beach, FL

> **CCTV work Conduit Breakdown** From 24th Street to 29th Street (INCLUDED) From 30th Street to 32nd Street (INCLUDED) From 36th Street to 46th Street (INCLUDED) From 29th Street to 30th Street (NOT INCLUDED) From 32nd Street to 36th Street (NOT INCLUDED)

 Provide and install #6 cable. (Section from 24th Street to 29th Street, Section from 30th Street to 32nd Street and Section from 36th Street to 46th Street) Materials:

Description	Qty	Net Price	Total materials
- Cable#6	9,660'	\$0.65	\$6,279

 Provide and install #2cable. (Section from 36thth Street to 46th Street) Materials:

	Description	Qty	Net Price	Total materials
-	Cable#2	14,040'	\$1.14	\$16,006

 Provide and install electrical equipment racks support Nema 4X (Section from 24th Street to 29th Street, Section from 30th Street to 32nd Street and Section from 36th Street to 46th Street)

Materials:

	Description	Qty	Net Price	Total materials
-	Rack	10	\$1,994	\$19,940

 Provide and install field Panels Nema 4X (Section from 24th Street to 29th Street, Section from 30th Street to 32nd Street and Section from 36th Street to 46th Street) Materials:

	Description	Qty	Net Price	Total materials
-	Field Panel	10	\$2,275	\$22,750

 Provide and install Stainless Steel 2pole Disconnects 4X (Section from 24th Street to 29th Street, Section from 30th Street to 32nd Street and Section from 36th Street to 46th Street) Materials:

	Description	Qty	Net Price	Total materials
-	Disconnects	10	\$965	\$9,650

Provide and install pullboxes (Section from 24th St to 29th St, Section from 30th St to 32nd St, Section from 36th St to 46th St) 13x24x24 for Camera, 13x24x18 for Electrical, 17x30x24 and 13x24x18 for Service Point, 24x36x24 for Street End Materials:

Description	Qty	Net Price	Total materials
- Pull Boxes	97	\$831.95	\$80,699

 Provide and install CCTV poles - Windloads calculations & freight included (Section from 24th Street to 29th Street, Section from 30th Street to 32nd Street and Section from 36th Street to 46th Street) Materials:

Description	Qty	Net Price	Total materials
 CCTV poles 	26	\$1,198	\$31,148

 Provide and install concrete bases - Windload calculations & freight included (Section from 24th Street to 29th Street, Section from 30th Street to 32nd Street and Section from 36th Street to 46th Street) Materials:

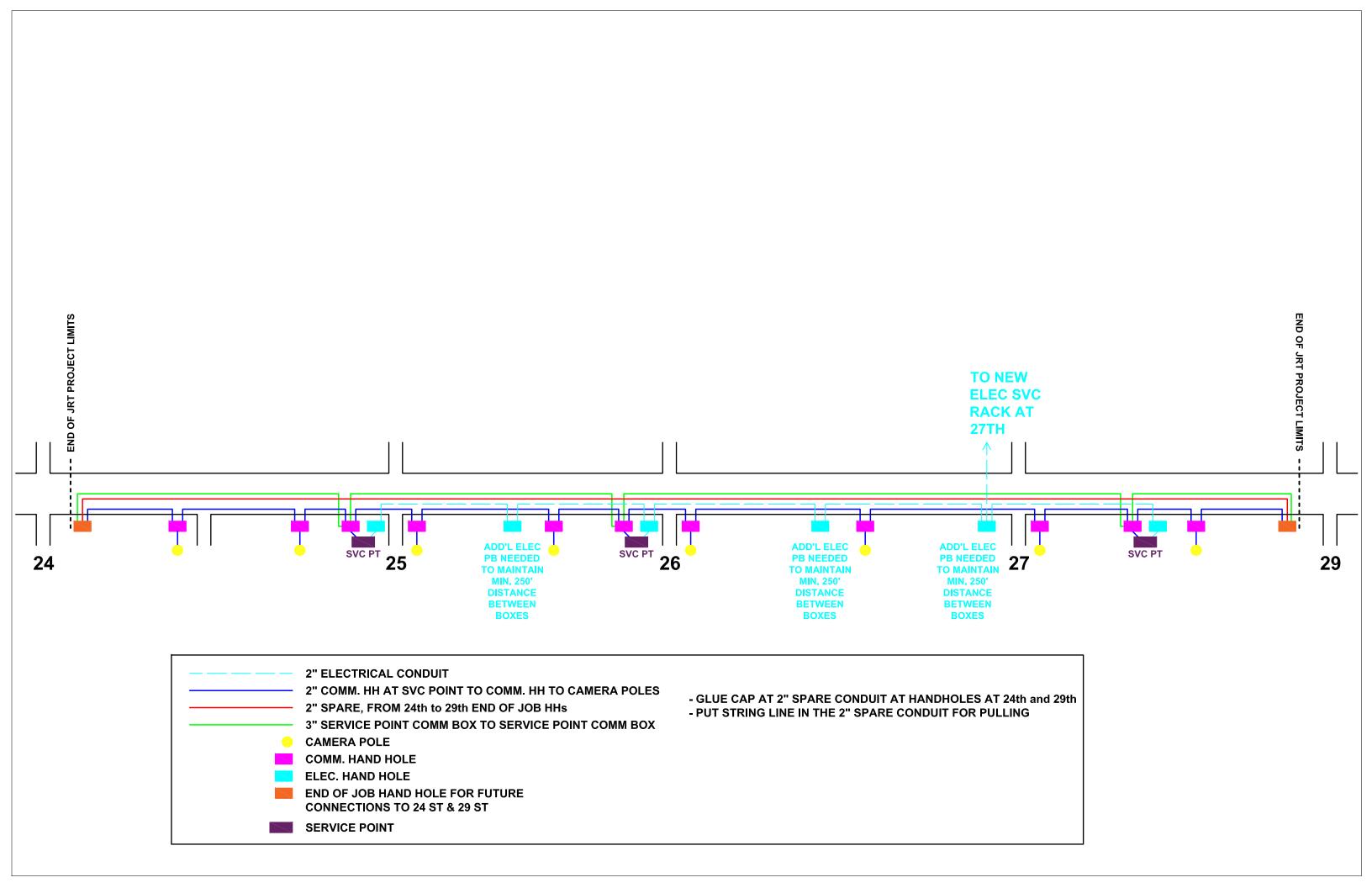
	Description	Qty	Net Price	Total materials
-	Concrete bases	26	\$680	\$17,680

General Materials: Materials Tax (7%): Total Materials:	\$204,152 \$14,291 <u>\$218,443</u>
Labor: (1,388 Hrs @ \$45.42):	<u>\$63,043</u>
Equipment rent (Hydraulic Excavator rock bucket):	<u>\$5,054</u>
Overhead / Profit (10%):	<u>\$28,654</u>



\$315,194

Date: 04/30/20



RE: Beach walk Sketch from 24th -29th (Discussed Sketch)

Aragunde, Roland < RolandAragunde@miamibeachfl.gov>

Thu 4/23/2020 1:20 PM

To: Jose Arana <jarana@tarafaconstruction.com>

Cc: Jeovanni Tarafa <jtarafa@tarafaconstruction.com>; Felipe Rodriguez <frodriguez@tarafaconstruction.com>; Leonid del Castillo <leo@flfelectric.com>; Guitian, Ariel <ArielGuitian@miamibeachfl.gov>; Vega, Paola <PaolaVega@miamibeachfl.gov>; hector rodriguez <hector@sfla-elec.com>

Jose,

This sketch looks great and memorializes what we have discussed. I knew I was forgetting something when we spoke and it was the depths of the boxes. If you can get the telecom boxes in 24" depth, that is what we would prefer with the most important ones of those being the ends (24x36) due to coiling some of the fiber in it. If 18" is all you can get, then we will work with what we have to. The electrical boxes can be the standard depth your using throughout the rest of your project.

Will you be laying the conduit for the poles which will go at the ends of the streets (25/26/27) now or coming into the handholes at a later time in the project? Just kind of a reminder.

Thank you so much for your time and work on this.

Roland



Roland Aragunde, Detective Technical Operations Unit MIAMI BEACH POLICE DEPARTMENT 1100 Washington Ave, Miami Beach, FL 33139 Tel: 305-673-7776, ext. 3749 / Fax: 786-394-4829 Days/Hours: Tuesday-Friday, 2pm-12am RolandAragunde@miamibeachfl.gov

Mission: Prevent crime and enhance public safety. Vision: We aspire to be a world-class agency, which protects our diverse community and serves as a model for character, innovation and service to meet the challenges of tomorrow Values: Professional, Accountable, Honest and Proud. Our Daily Goals: Reduce crime and the fear of crime; Partner with the community to solve problems; Improve traffic safety; Operate the organization efficiently.

From: Jose Arana <jarana@tarafaconstruction.com>
Sent: Thursday, April 23, 2020 12:48 PM
To: hector rodriguez <hector@sfla-elec.com>; Aragunde, Roland <RolandAragunde@miamibeachfl.gov>
Cc: Jeovanni Tarafa <jtarafa@tarafaconstruction.com>; Felipe Rodriguez <frodriguez@tarafaconstruction.com>; Leonid del Castillo <leo@flfelectric.com>; Guitian, Ariel <ArielGuitian@miamibeachfl.gov>; Vega, Paola <PaolaVega@miamibeachfl.gov>
Subject: Re: Beach walk Sketch from 24th -29th (Discussed Sketch)

[THIS MESSAGE COMES FROM AN EXTERNAL EMAIL - USE CAUTION WHEN REPLYING AND OPENING LINKS OR ATTACHMENTS]

Folks -

Attached please find the sketch, with the changes and comments we discussed moments ago. Please verify so I can remobilize my work for this tomorrow.

One last thing, Hector/Roland - I need the depths of the boxes, the 13x24s, the 17x30s, and the added 24x36s. The plans call for the first two at 18".

Thanks.

Regards,



José Arana Project Manager J.R.T. Construction, Co. 3050 NW 77th Ct., Doral, FL 33122 C. 305.331.1524 | F. 305.557.9922

O. 305.557.9911, Ext. 1015

Jose Arana | Project Manager | JRT Construction | 305.331.1524

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 From: Jose Arana <jarana@tarafaconstruction.com</td>

 Sent: Thursday, April 23, 2020 9:34 AM

 To: hector rodriguez <<u>hector@sfla-elec.com</u>

 Cc: Aragunde, Roland <<u>RolandAragunde@miamibeachfl.gov</u>>; Jeovanni Tarafa <jtarafa@tarafaconstruction.com</td>

 <frodriguez@tarafaconstruction.com</td>

 ; teorid del Castillo <<u>leo@flfelectric.com</u>

 Subject: Re: Beach walk Sketch from 24th -29th

Hector/Roland -

So like the attached, then? I revised it to add the 2" pole to pole in the street end boxes.

I still need the following answered:

- What handholes/pullboxes the 3" conduit and the 2" spare conduit go into at the service points the COMMUNICATIONS ones, or a separate one.
- The depth of all the pullboxes mentioned in Hector's eMail (the plans say all are 18" deep)

I'd need a confirmation that the sketch is OK prior to resuming work, so we're all on the same page.

Regards,



José Arana Project Manager

J.R.T. Construction, Co. 3050 NW 77th Ct., Doral, FL 33122 C. 305.331.1524 | F. 305.557.9922 O. 305.557.9911, Ext. 1015

Jose Arana | Project Manager | JRT Construction | 305.331.1524

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 From: hector rodriguez <<u>hector@sfla-elec.com</u>>

 Sent: Wednesday, April 22, 2020 4:55 PM

 To: Jose Arana <<u>jarana@tarafaconstruction.com</u>>

 Cc: Aragunde, Roland <<u>RolandAragunde@miamibeachfl.gov</u>>; Jeovanni Tarafa <j<u>tarafa@tarafaconstruction.com</u>>; Felipe Rodriguez<</td>

 <frodriguez@tarafaconstruction.com>; Leonid del Castillo <<u>leo@flfelectric.com</u>>

 Subject: Re: Beach walk Sketch from 24th -29th

Jose,

As for fiber runs, they'll just be at the Service Points.

In regards to boxes:

Camera locations - 13" x 24"

Service Point Comm - 17" x 30"

Service Point Elec - 13" x 24"

24th St end & 29th - Qty 1 on Each St 24" x 36" - This is going to be a pullbox pass through for all the fiber and a cat 6. It's also going to have 2 -2" & 1 - 3" coming in and going out (6 conduits).

Electrical run JB - 13" x 24"

Thanks,

Hector Rodriguez Jr. - Vice President

South Florida Electrical Cons. 786.299.2337 Direct 305.269.1630 Fax 4234 SW 75th Ave, Miami, FL 33155

On Apr 22, 2020, at 4:28 PM, Jose Arana <jarana@tarafaconstruction.com > wrote:

Alright, Roland -

I put together what Hector drew up and combined it with the original plan provided for the area between 24th and 29th, and came up with the attached.

Mail - Jose Arana - Outlook

I wanted to show all the pullboxes too, just for clarity - because we'll need more for the electrical runs due to the 250' max between electrical box and electrical box.

Also, since my job limits end short of 24th and 29th St, I've put pullboxes/handholes just at the very limits of my job so you can do your future connections at those points.

The other question I need answered is what, if any, handholes the 3" conduit and the 2" spare conduit go into, if any. Feel free to use Adobe to draw on this PDF to provide the answer.

Please tell me if this OK. Call me if anything. Thanks.

Regards,

<Outlook-gkh1dbyp.jpg>Jose Arana | Project Manager | JRT Construction | 305.331.1524

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From: Aragunde, Roland <<u>RolandAragunde@miamibeachfl.gov</u>> Sent: Wednesday, April 22, 2020 1:00 PM To: Jose Arana <<u>jarana@tarafaconstruction.com</u>> Subject: Fwd: Beach walk Sketch from 24th -29th

Good Afternoon Jose,

Please see the below and tell me if this helps.

Thank you,

Roland

MIAMI BEACH Roland Aragunde, Detective Investigations and Technical Support Division MIAMI BEACH POLICE DEPARTMENT 1100 Washington Ave, Miami Beach, FL 33139 Tel: <u>305-673-7776, ext. 3749</u> / Fax: <u>786-394-4829</u> RolandAragunde@miamibeachfl.gov

Mission: Prevent crime and enhance public safety. Vision: We aspire to be a world-class agency, which protects our diverse community and serves as a model for character, innovation and service to meet the challenges of tomorrow. Values: Professional, Accountable, Honest and Proud.

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Begin forwarded message:

 From: Hector Rodriguez <<u>hector@sfla-elec.com</u>>

 Date: April 22, 2020 at 12:28:38 PM EDT

 To: "Aragunde, Roland" <<u>RolandAragunde@miamibeachfl.gov</u>>, "Fernandez, Hector" <<u>HectorFernandez@miamibeachfl.gov</u>>

 Subject: Beach walk Sketch from 24th -29th

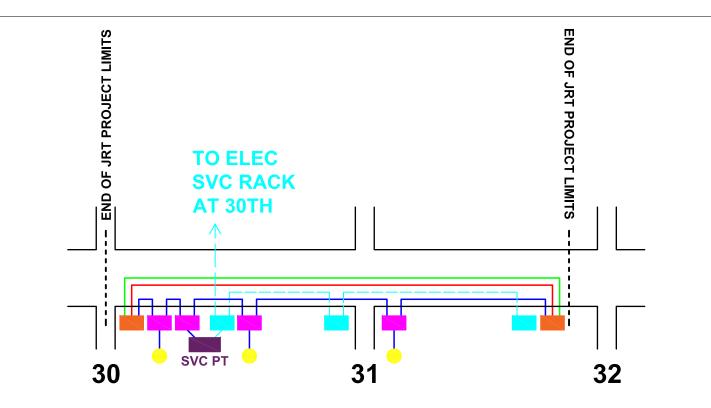
[THIS MESSAGE COMES FROM AN EXTERNAL EMAIL - USE CAUTION WHEN REPLYING AND OPENING LINKS OR ATTACHMENTS]

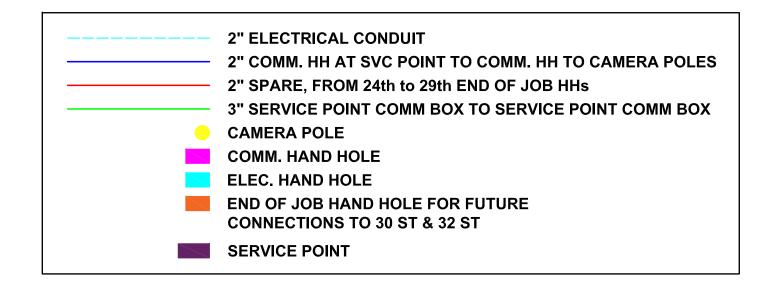
Guys,

Below a conduit layout sketch. Service points and cameras are not in actual location it's just to depict conduit size and where they stub up.

Let me know if this helps.

Hector Rodriguez Jr. South Florida Electrical Cons. 786.299.2337 Direct 305.269.1630 Fax 4234 SW 75th Ave Miami, FL 33155





Re: MBRC Ph III - CCTV Design for 30th - 32nd St

Aragunde, Roland <RolandAragunde@miamibeachfl.gov>

Fri 5/1/2020 10:12 AM

To: Jose Arana <jarana@tarafaconstruction.com>
 Cc: Vega, Paola <PaolaVega@miamibeachfl.gov>; Guitian, Ariel <ArielGuitian@miamibeachfl.gov>; Jeovanni Tarafa

 </

Good Morning Jose,

My apologies for not getting back to you sooner. The below diagram looks great and is consistent with our goals for the conduit. If you need me to go out and mark the locations for the camera poles, please let me know, but conceptually this is fine. As we have discussed in the past, we are always looking to put the poles as close to the edge of the path as possible and near the corners of the entrances.

Thank you for your work on this,

Roland

MIAMI BEACH

Roland Aragunde, Detective Investigations and Technical Support Division MIAMI BEACH POLICE DEPARTMENT 1100 Washington Ave, Miami Beach, FL 33139 Tel: <u>305-673-7776, ext. 3749</u> / Fax: <u>786-394-4829</u> <u>RolandAragunde@miamibeachfl.gov</u>

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On May 1, 2020, at 9:38 AM, Jose Arana < jarana@tarafaconstruction.com > wrote:

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Roland -

Following up on the below. Please have a response to me by noon if possible.

Regards,

<Outlook-zmuukdpk.jpg>

Jose Arana | Project Manager | JRT Construction | 305.331.1524

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From: Jose Arana
Sent: Thursday, April 30, 2020 3:05 PM
To: CMB - Roland, MBPD <rolandaragunde@miamibeachfl.gov>
Cc: Vega, Paola <PaolaVega@miamibeachfl.gov>; Guitian, Ariel <ArielGuitian@miamibeachfl.gov>; Jeovanni Tarafa <jtarafa@tarafaconstruction.com>; Felipe Rodriguez
<frodriguez@tarafaconstruction.com>
Subject: MBRC Ph III - CCTV Design for 30th - 32nd St

Roland, good afternoon -

My crews will be done in a few days with the area from 24th to 29th.

Attached please find the design for 30th to 32nd St. It combines the plans I was provided with for this area, with the concepts in my layout for 24-29. Please confirm so I can proceed to lay this out.

Thanks.

Regards,

<Outlook-rxeldz1l.jpg>

Jose Arana | Project Manager | JRT Construction | 305.331.1524

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RE: MBRC Ph III - RCO #3R3 - CCTV Conduit Work Addition 2" Conduit for Fiber

Guitian, Ariel <ArielGuitian@miamibeachfl.gov>

Tue 3/31/2020 12:22 PM

To: Jose Arana <jarana@tarafaconstruction.com>; Vega, Paola <PaolaVega@miamibeachfl.gov>
 Cc: ARC - Jeff Crews <jeff.crews@stantec.com>; Felix Garcia <FGarcia@cgasolutions.com>; Jeovanni Tarafa
 <jtarafa@tarafaconstruction.com>; Felipe Rodriguez <frodriguez@tarafaconstruction.com>; Gianno Feoli
 <GFeoli@cgasolutions.com>

1 attachments (110 KB)
 RE: MBRC Ph III - CCTV Work;

Jose – I received the attached email from PD requesting a 2" conduit running the whole length of the beachwalk (within your scope limit). Please revise your proposal #3R3 to reflect this additional conduit.

Thanks

From: Jose Arana <jarana@tarafaconstruction.com>
Sent: Wednesday, March 25, 2020 12:01 PM
To: Vega, Paola <PaolaVega@miamibeachfl.gov>; Guitian, Ariel <ArielGuitian@miamibeachfl.gov>
Cc: ARC - Jeff Crews <jeff.crews@stantec.com>; Felix Garcia <FGarcia@cgasolutions.com>; Jeovanni Tarafa
<jtarafa@tarafaconstruction.com>; Felipe Rodriguez <frodriguez@tarafaconstruction.com>
Subject: MBRC Ph III - RCO #3R3 - CCTV Conduit Work

[THIS MESSAGE COMES FROM AN EXTERNAL EMAIL - USE CAUTION WHEN REPLYING AND OPENING LINKS OR ATTACHMENTS]

Afternoon, all -

Attached please find RCO #3R3 for the CCTV conduit work, for your review. It is a large file, please confirm receipt. It will be uploaded to eBuilder shortly.

Please be aware that the subgrade stabilization work cannot proceed until the underground work is completed - JRT requests an answer on this RCO by Friday, 3/27/2020, at close of business.

Regards,



Jose Arana | Project Manager | JRT

Construction | 305.331.1524

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Jose Arana

From: Sent:	Aragunde, Roland <rolandaragunde@miamibeachfl.gov> Tuesday, March 31, 2020 11:30 AM</rolandaragunde@miamibeachfl.gov>
То:	Guitian, Ariel; Vega, Paola
Cc:	Feldman, Steven; Gomez, David
Subject:	RE: MBRC Ph III - CCTV Work

Good Morning Ariel,

It seems the project gods are speaking to us at the same time as I was going to prepare an email about an update for the whole Beachwalk projects. First, I am good with the cost proposal (JRT RCO #3R3) for the conduit we had asked for. Unfortunately, we identified an issue while we continue to plan for "the whole" Beachwalk up to 87St. That issue is fiber connectivity, and that there is none available as we continue to plan north of 46St. In order to have fiber for the second half of the CCTV beachwalk projects (46St-87St) we need to plan for it now and bring it along from our Lummus Park and 14PI-24St Beachwalk projects and ultimately through this Middle Beachwalk Project (24St-46St).

We have identified a type of Fiber package which will help us complete this goal for our current projects and future. But in order to bring the second leg of the fiber up to 46St, we will be adding a 2"empty conduit throughout all of the project components. This empty 2" conduit can run parallel to the 3" conduit there will be installing. This conduit does not need to stop at all the communication handholes and just need to run from the first handhole to the last in each section of the project so we can tie into it later as we complete the missing sections.

For example, the section 24St-29St. There is a communication handhole at the most southern part within the SoW and one on the northern end. The 2" empty conduit needs to run from one to the other, and does not need to stop at any other point so no additional handholes are needed just for this conduit addition. (unless there is some construction reason and it needs to stop at a certain handhole along the way). I hope this explains it properly. So for simple math, JRT can add to the quote an empty 2" conduit for the whole length.

Burns and McDonnell has completed the designs outtakes for 30-32St and 36-46St similar to what they did for 24-29St for the contractor. However, they are adding in this extra conduit we identified so the plans match.

I want to add this note in now, but it should not affect anything listed above or previously discussed. In the new fiber solution we have identified, the 3" conduit in the communication handholes should not be stubbed up. Instead it comes into the handhole on one side, stops/opens for the handhole space and continues through the other side horizontally. The fiber we will later pull horizontally through the handhole has a pigtail which will stay in the handhole while the cable continues on. We can speak about this at a later time. For now, and to not delay the project, please have JRT add the extra empty 2" conduit into their quote.

Thank you,

Roland

MIAMI BEACH

Roland Aragunde, Detective

Technical Operations Unit MI AMI BEACH POLI CE DEPARTMENT 1100 Washington Ave, Miami Beach, FL 33139 Tel: 305-673-7776, ext. 3749 / Fax: 786-394-4829 Days/Hours: Tuesday-Friday, 2pm-12am

MBRC Phase III - CCTV Scope from 24th to 29th Streets.

Vega, Paola < PaolaVega@miamibeachfl.gov>

Mon 2/24/2020 9:59 AM

To: Jose Arana <jarana@tarafaconstruction.com>
 Cc: Guitian, Ariel <ArielGuitian@miamibeachfl.gov>; Crews, Jeff <jeff.crews@stantec.com>; Jeovanni Tarafa
 <jtarafa@tarafaconstruction.com>; Felix Garcia <FGarcia@cgasolutions.com>

1 attachments (5 MB)
 MB-Middle Beach - 24th-29th ELEC.pdf;

Jose,

Please find attached the revised SOW for the CCTV work from 24th to 29th St. The consultant is working on the other sections but we want to expedite this portion so you can start the work.

Thanks,

Paola.

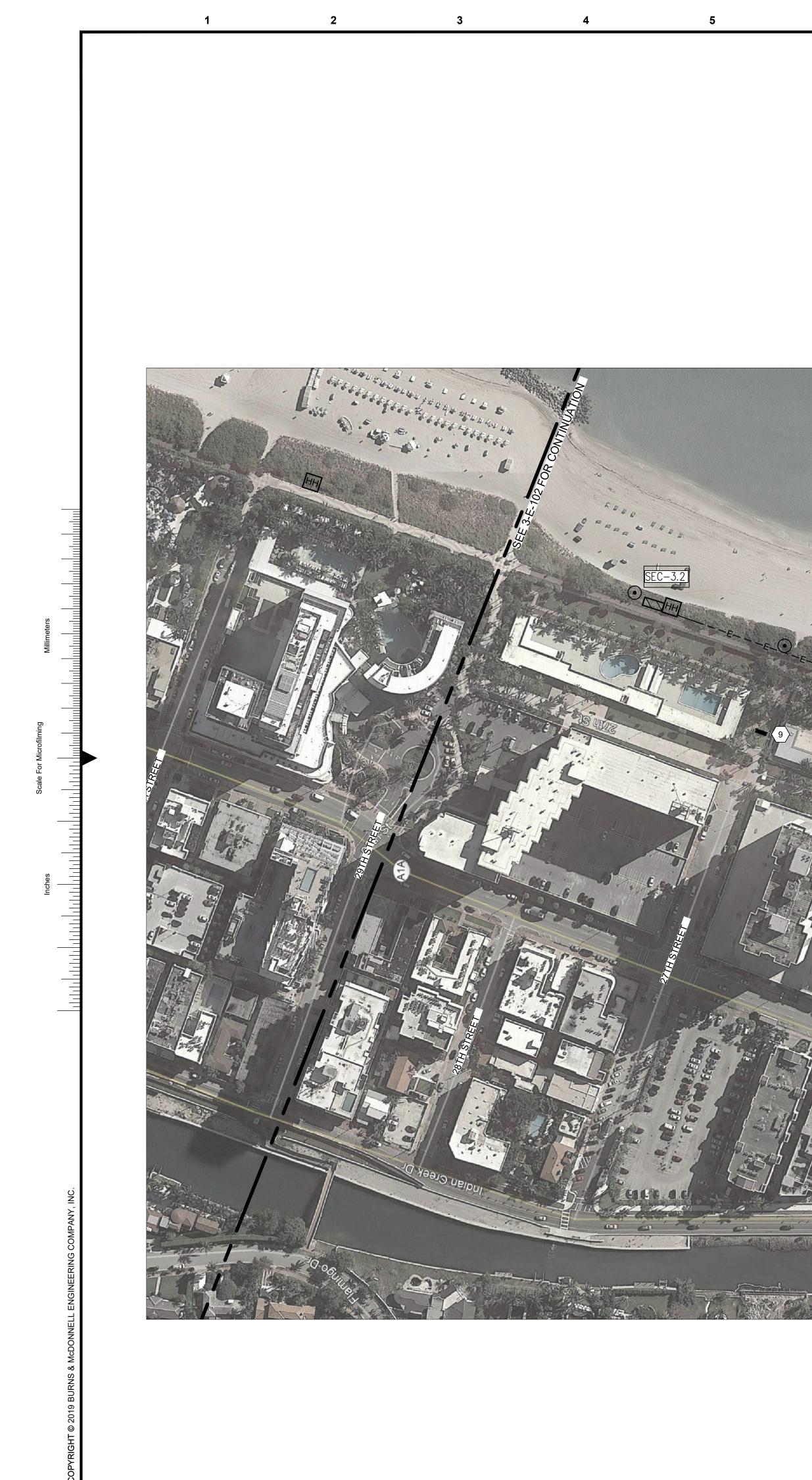
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	Sheet List Table
Sheet Number	Sheet Title
3-E-001	ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES
3-E-101	ELECTRICAL PLAN - AREA A
3-E-102	ELECTRICAL PLAN - AREA B
3-E-103	ELECTRICAL PLAN - AREA C
3-E-104	ELECTRICAL PLAN - AREA D
3-E-501	ELECTRICAL DETAILS
3-E-502	ELECTRICAL DETAILS



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	SYMBOLS - POWER			SYMBOL MODIFIERS
○ RECEPTACLES ♥ RECESSE ♥ RECESSE ♥ RECESSE ♥ RECESSE ♥ SPECIAL	ED SIMPLEX II SURFACE SIMPLEX II SURFACE DUPLEX II SURFACE DUPLEX II SURFACE DUPLED QUAD II SURFACE QUA	PLEX PLEX	AC C CB CO DW EP OR EXP F FPD GD GD GFI IG MW NL POP PR PROJ REF SB SFX-#	ABOVE COUNTER MOUNTING RECESSED IN CEILING COFFEE BREWER COPIER DISHWASHER EXPLOSION PROOF RECESSED IN FLOOR FLAT PANEL DISPLAY GARBAGE DISPOSAL GROUND FAULT CIRCUIT INTERRUPTER ISOLATED GROUND MICROWAVE NIGHT LIGHT POPCORN MAKER PRINTER PROJECTOR REFRIGERATOR SMART BOARD SYSTEMS FURNITURE CONNECTION • SF1 - LARGE WORKSTATION • SF2 - SMALL WORKSTATION • # INDICATES QUANTITY OF WORKSTATIONS SERVED FROM
POWER DEVICI	ED IN WALL, UON ED IN FLOOR, UON ES GENERAL INFORMATION ANELBOARD - CIRCUIT		SH SW: XX TV VM WC WF WP WPIU XX" AFF XX" AFP	CONNECTION SHREDDER CONTROLLED BY SWITCH LABELED "XX" TELEVISION VENDING MACHINE WALL-MOUNTED CLOCK WATER COOLER WEATHERPROOF, WITH GFGI WEATHERPROOF IN USE, WITH GFI MOUNT XX" AFF MOUNT XX" AFF
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EF-X EC M HL-X PA GFI SY MI	NY JUNCTION BOX LISTED ABOVE QUIPMENT IDENTIFICATION ANELBOARD - CIRCUIT YMBOL MODIFIER(S) ECHANICAL EQUIPMENT CONNECTION SEE MECHANICAL EQUIPMENT SCHEDULE FOR CONNECTION INFORMATION EMOTE DISCONNECT SWITCH: SEE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION	N	EQUIPMEN REFLECTEI AND ORIEN 2. SYMBOL SI 3. MOUNTING DRAWINGS CENTER OF	ZE DOES NOT IMPLY EQUIPMENT SIZE, UON HEIGHT INDICATED IN LEGEND AND ON THI S SHALL BE THE DISTANCE MEASURED FROM THE DEVICE TO THE FINISHED FLOOR. YMBOLS ON THIS SHEET ARE USED AS PAR ⁻¹

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	ABBREVIATIONS	no. date by ckd description
	AAMPERESAFFABOVE FINISHED FLOORAFGABOVE FINISHED GRADEAICAMPERES INTERRUPTING CAPACITYAWGAMERICAN WIRE GAUGEBFGBELOW FINISHED GRADEBNBONDING NETWORKCOMMCOMMUNICATIONCCONDUITCRACONTROL RELAYCRAHCOOLING REFRIGERATION AIR HANDLERCUCOPPERDCDIRECT CURRENTDEPTDEPARTMENTDSDISCONNECTEBCEQUIPMENT BONDING CONDUCTORECEMPTY CONDUITEFFEXHAUST FANEMVNLEMERGENCY / NIGHT LIGHTEMTELECTRICAL METALLIC TUBINGEPOEMERGENCY POWER OFFETREXISTING TO REMAINEXEXISTING TO REMAINEXEXISTINGEACPFIRE ALARM CONTROL PANELFTFEET OR FOOTGBCGROUND BUS CONDUCTORGFIGROUND FAULT INTERRUPTERGNDGROUNDGFIGROUND FAULT INTERRUPTERGNDGROUND FAULT RELAYHZHERTZ	no. date by ckd description 0 02/07/20 CKG TDH ISSUE FOR BID A A B C
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		MIAMIBEACH
		MIAMI BEACH, FL MIAMI BEACH POLICE SURVEILLANCE MIDDLE BEACH ELECTRICAL SYMBOLS, ABBREVIATIONS, AND NOTES project 120960 drawing S-E-001 – A
		sheetofsheetsfile3-E-001.dwg



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KE	EYED NOTES: #				
1.	TYPICAL UNDERGROUND ELEC DETAIL 1/3-E-501.	TRICAL CONDUIT, S		1 24TH ST. TO 28TH ST. CO CONDITION OF THE EXIST	
2	TYPICAL LOCATION OF FIELD P	ANEL SEE DETAIL	PROVIDE LIPE	DATED TYPED PANEL SCH	

- 2. TYPICAL LOCATION OF FIELD PANEL. SEE DETAIL 3/3-E-501 FOR DETAILS.
- 3. NEW CAMERA POLE. SEE DETAIL 1/3-E-502 FOR POLE AND POLE BASE DETAIL. PLACEMENT OF POLE SHALL BE POSITIONED 2' OF THE BOARDWALK AND PRESENT CLEAR FIELD OF VIEWS WITH THE CAMERAS. COORDINATE FINAL LOCATIONS WITH MIAMI BEACH POLICE DEPARTMENT.
- 4. PROVIDE ELECTRICAL HANDHOLE, SEE DETAIL 2/3-E-501 FOR DETAILS.
- 5. FOR REFERENCE ONLY, EXISTING HANDHOLE, POLE AND FIELD PANEL INSTALLED AS PART OF THE 14TH -23RD ST PROJECT.
- 24TH STREET PANEL LOCATION CONTAINING THE FOLLOWING PANEL: -SIEMENS 120/240V, 1 PHASE, 125A BUSS, 12 POLE, NO
- PANEL SCHEDULE CURRENTLY AVAILABLE, 6 SPACES AVAILABLE.
- 7. PROVIDE (1) 20/2 BREAKER TO POWER FIELD PANELS. USE CIRCUIT 7,9 TO SERVE FIELD PANELS TO THE

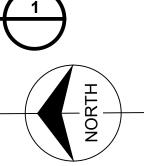
-3 TYPICAL

PROVIDE UPDATED TYPED PANEL SCHEDULE.
CONTRACTOR TO COORDINATE WITH MIAMI BEACH
PUBLIC WORKS AND MIAMI BEACH POLICE
DEPARTMENT AND PROVIDE KEYED PADLOCK FOR
PANEL.
8. FOR REFERENCE ONLY, 26TH STREET PANEL

- LOCATION CONTAINING THE FOLLOWING: -UNMARKED PANEL, APPEARED TO BE 120/240V, 1 PHASE, 12 POLE, NO PANEL SCHEDULE 6 SPACES AVAILABLE. PANEL WAS MISSING DEAD-FRONT AND THE WEATHER STRIPPING HAS BEEN DAMAGED. IT IS NOT RECOMMENDED TO USE THIS PANEL FOR THIS PROJECT.
- 9. FOR REFERENCE ONLY, 27TH STREET PANEL LOCATION CONTAINING THE FOLLOWING:
 -UNMARKED PANEL, APPEARED TO BE 120/240V, 1 PHASE, 30A MCB, 12 POLE, NO PANEL SCHEDULE 4 SPACES AVAILABLE. PANEL IS A CUSTOM ENCLOSURE WITH INTEGRAL CONTROLS. IT IS NOT RECOMMENDED TO USE THIS PANEL FOR THIS PROJECT.







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GEI	NERAL NOTES:		no.	I	by	ckd	description	
1.	THE ELECTRICAL SHEETS SH THAT HAVE BEEN PREPARED OBSERVATIONS AND ORIGINA COMPONENTS AND CONDITIC ON THE DRAWINGS MAY EXIS CERTAIN REMODELING OR AD NOTED ON THE DRAWINGS. F OF ALL EXISTING EQUIPMENT	BASED ON FIELD AL DRAWINGS. ADDITIONAL ONS THAT ARE NOT SHOWN OT AND MAY REQUIRE DJUSTMENTS THAT ARE NOT IELD VERIFY THE LOCATIONS AND DEVICES SHOWN ON	0	02/07/20	CKG	TDH	ISSUE FOR BID	A
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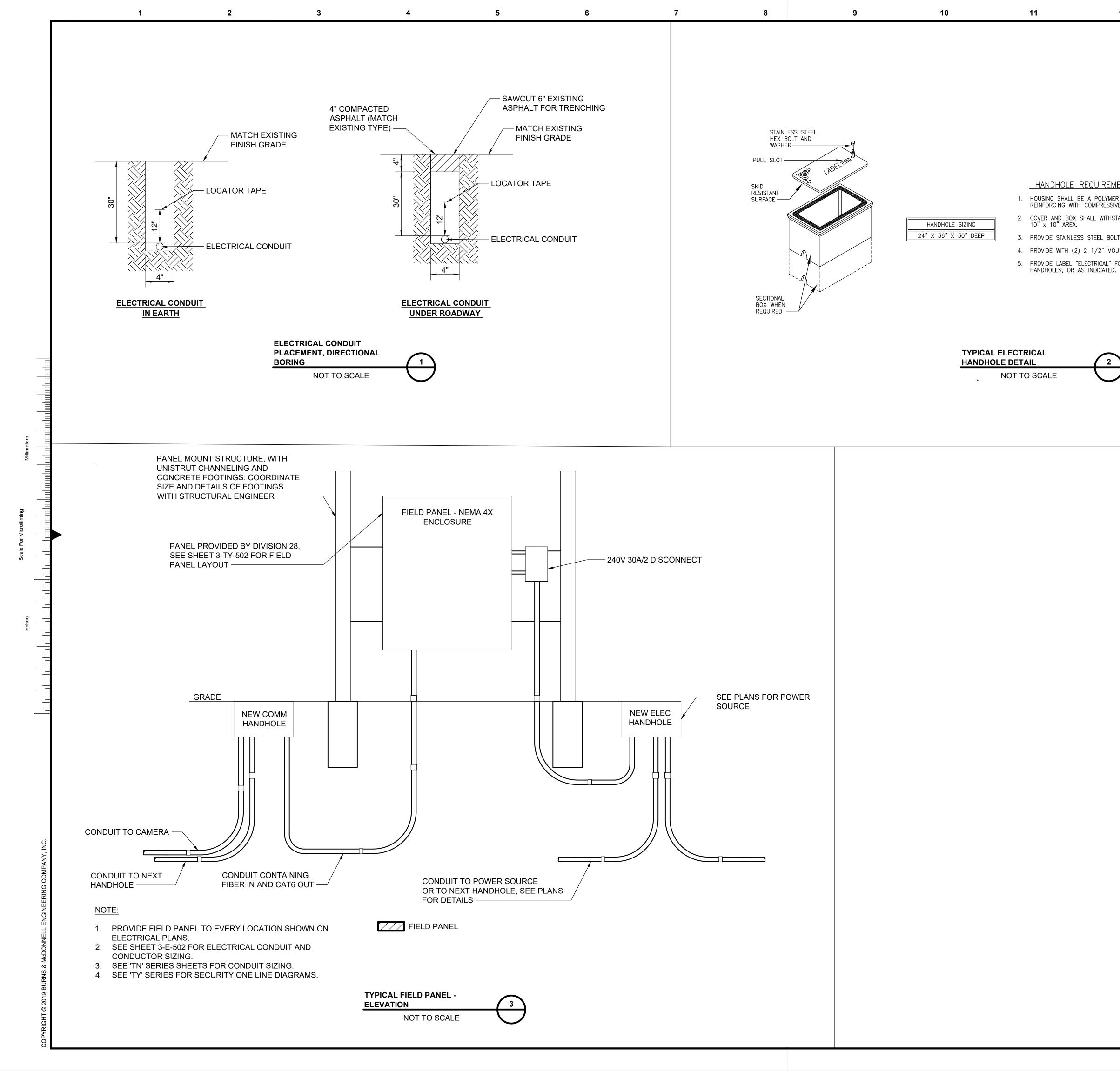


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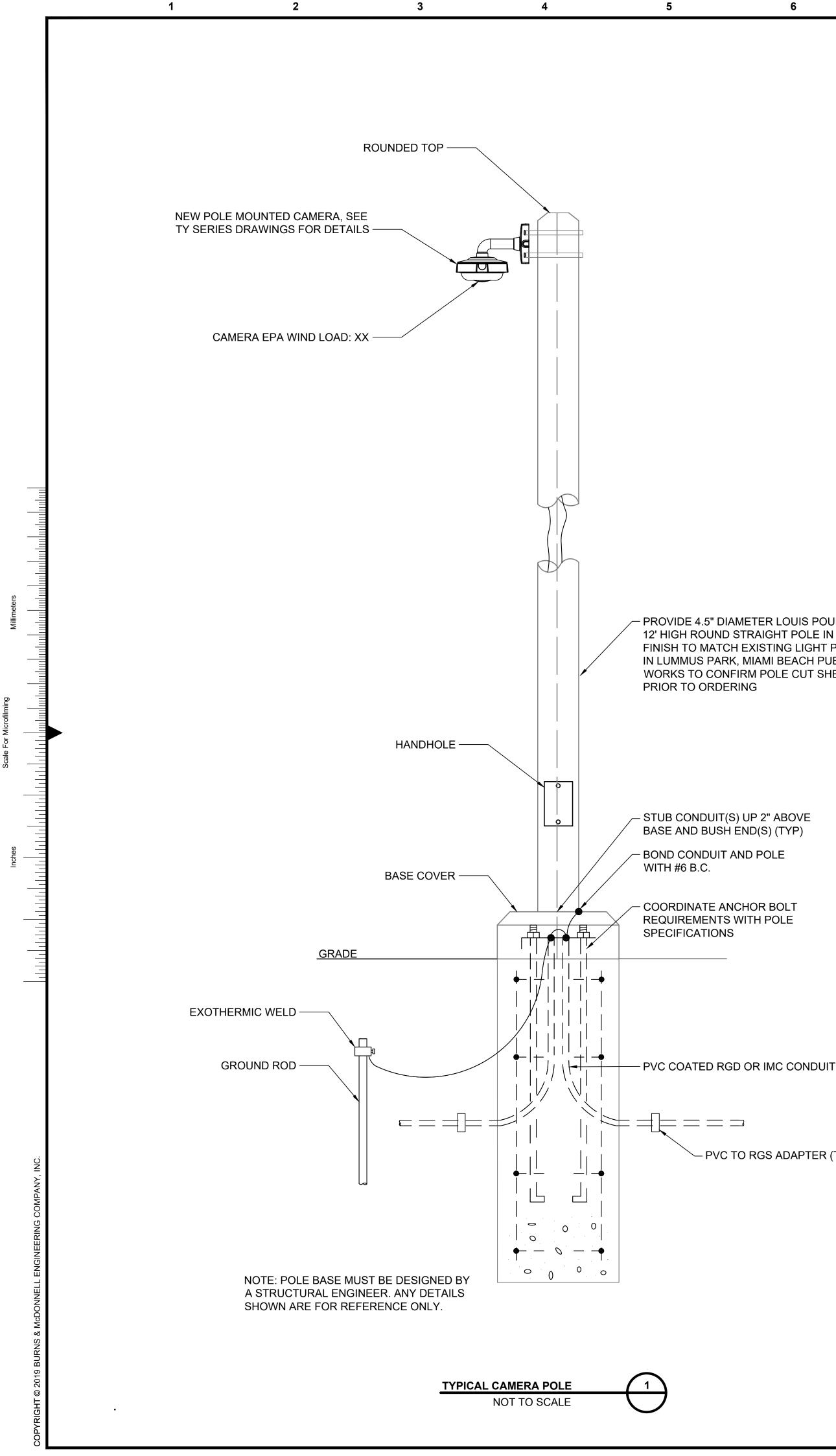
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PROVIDE 4.5" DIAMETER LOUIS POULSEN 12' HIGH ROUND STRAIGHT POLE IN WHITE FINISH TO MATCH EXISTING LIGHT POLES IN LUMMUS PARK, MIAMI BEACH PUBLIC WORKS TO CONFIRM POLE CUT SHEET

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– PVC TO RGS ADAPTER (TYP).

46TH ST PANEL		-SEC 3.11
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		SEC 3.10
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34TH ST PANEL	#6	
	#8	
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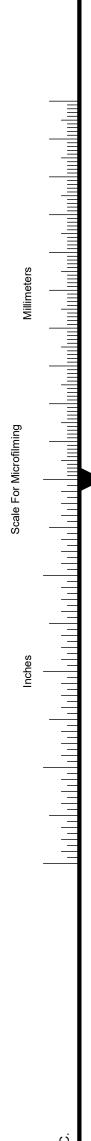
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CONDUIT AND BR **CIRCUIT DIAGRA** NOT TO SCALE

	Sheet List Table
Sheet Number	Sheet Title
3-TN001	TELECOMMUNICATIONS SYMBOLS, ABBREVIATIONS, AND NOTES
3-TN101	TELECOMMUNICATIONS PLAN - AREA A
3-TN102	TELECOMMUNICATIONS PLAN - AREA B
3-TN103	TELECOMMUNICATIONS PLAN - AREA C
3-TN104	TELECOMMUNICATIONS PLAN - AREA D
3-TN501	TELECOMMUNICATIONS DETAILS

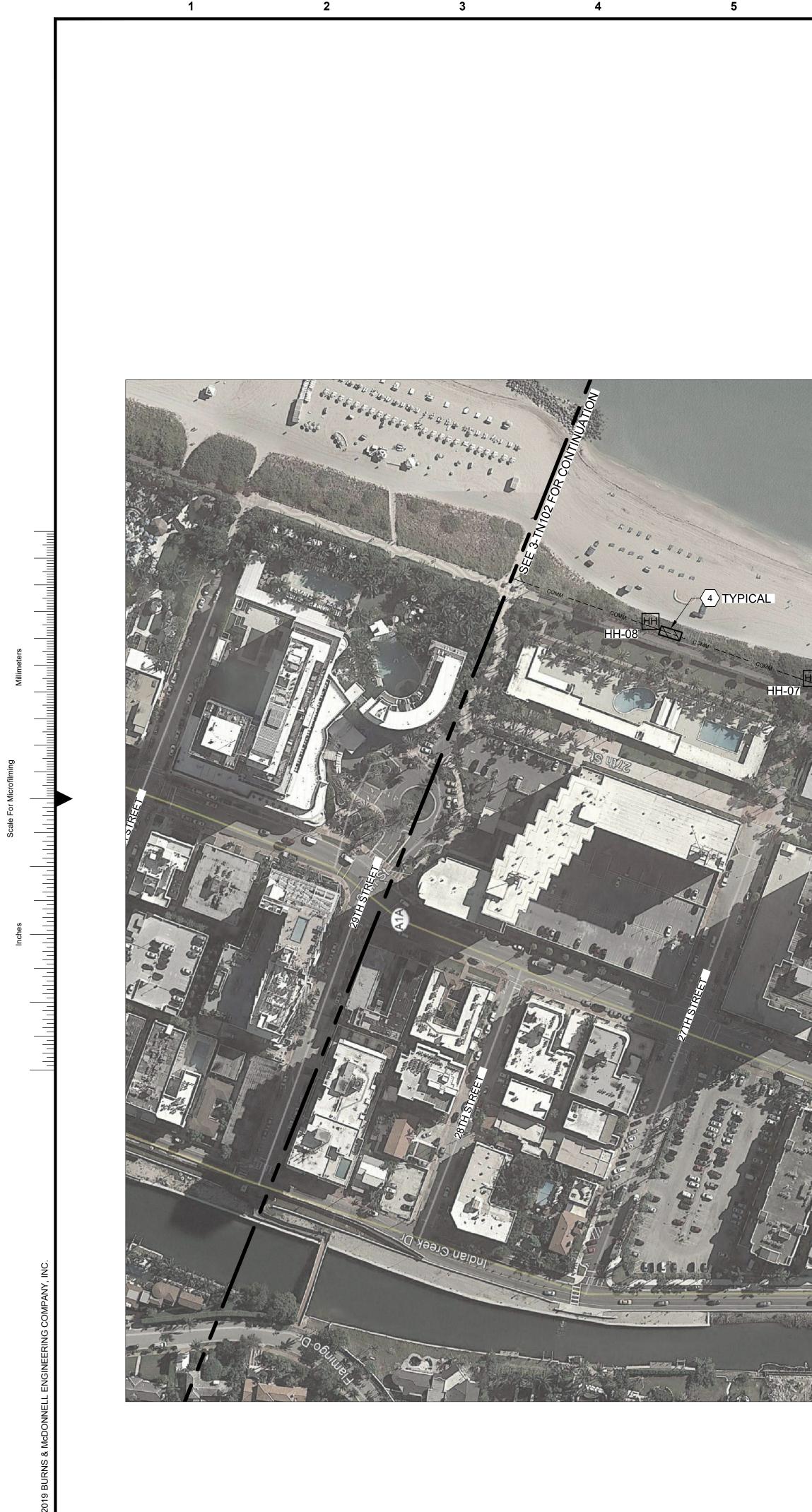


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#	# 6 CABLES ON 8P/8C CONNECTOR (VOICE)	AWG BCC BKBI	BACKBONE COPPER	
#D #V ▼	# 6 CABLES ON 8P/8C CONNECTORS	BSM BSM BMS	T BASEMENT	SWITCH
# ▽	# 6 CABLES ON 8P/8C CONNECTORS (DATA)	CAT CAT CCT	V COMMUNITY ANTENN	A TELEVISION
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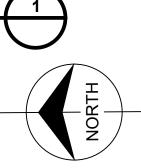
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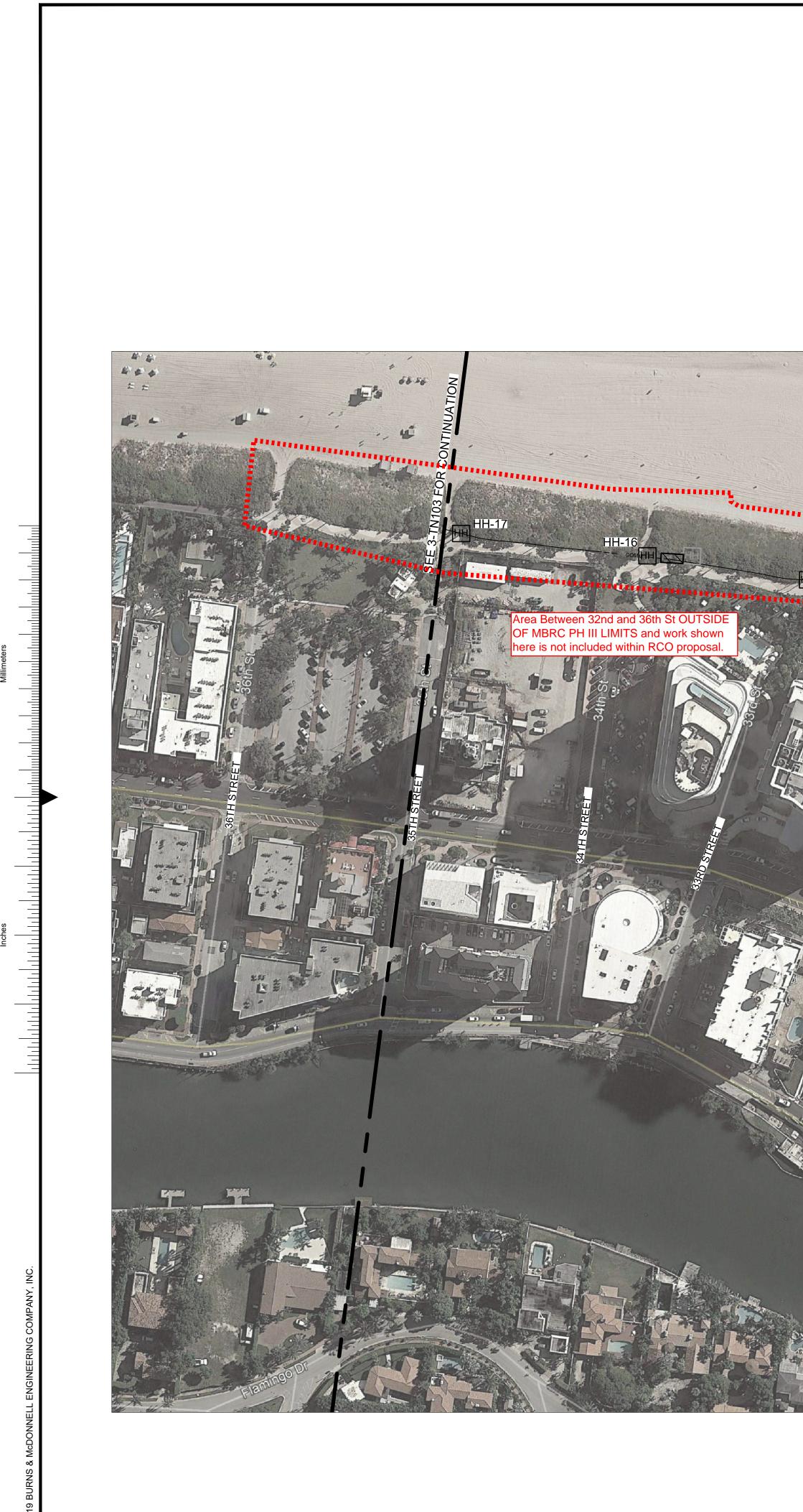
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TELECOMMUNICATIONS PLAN - AREA A

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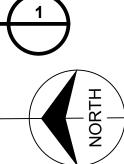
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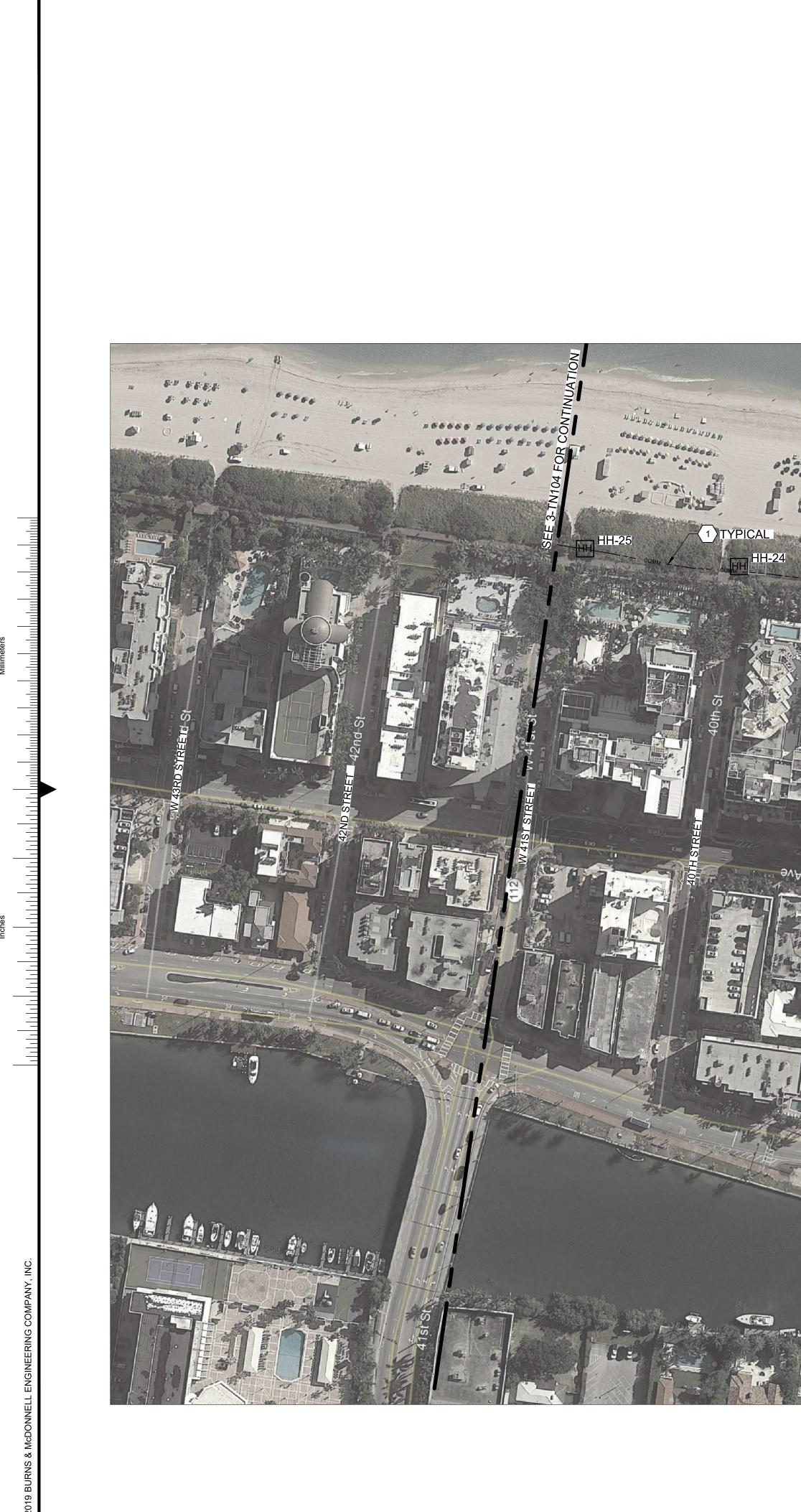
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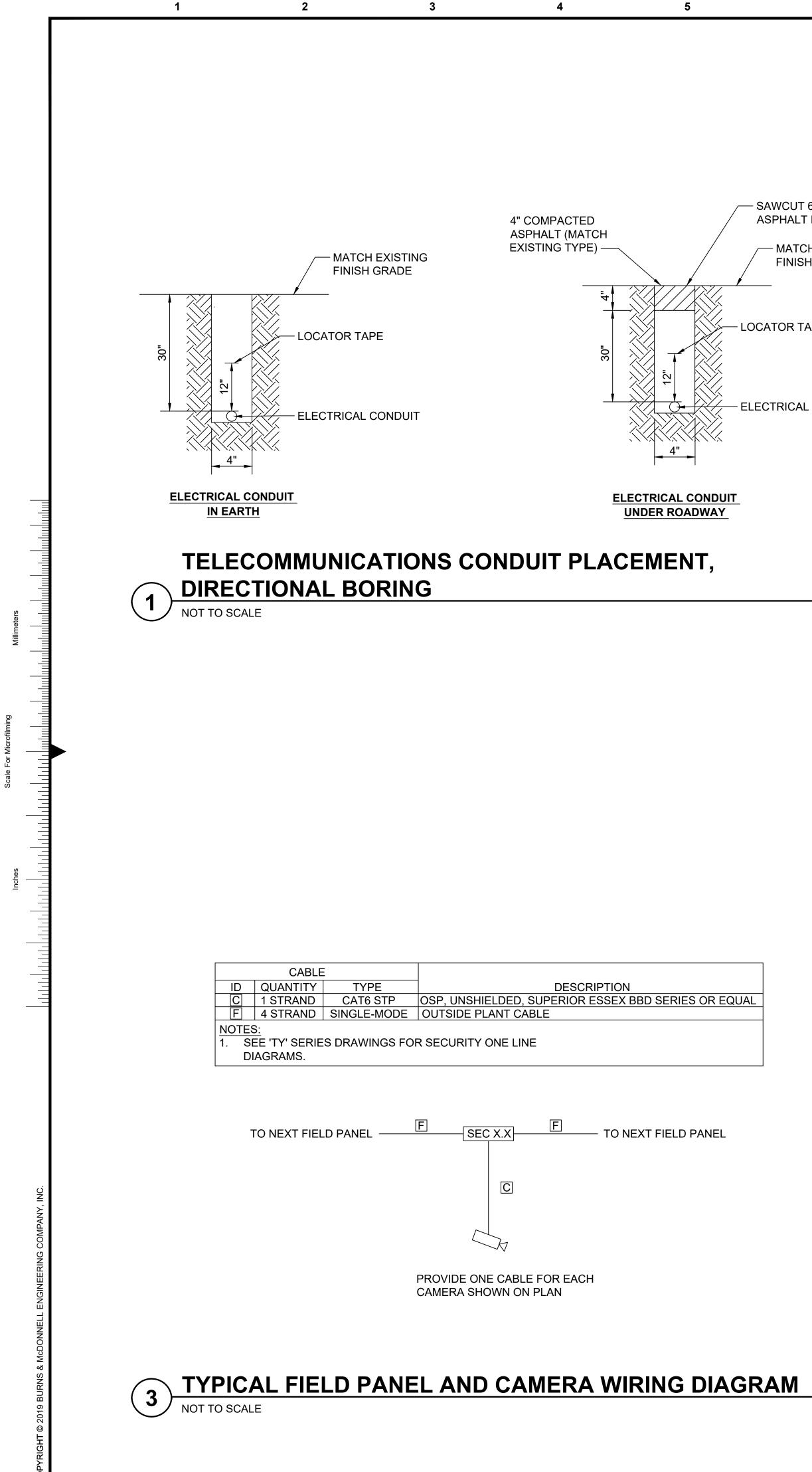
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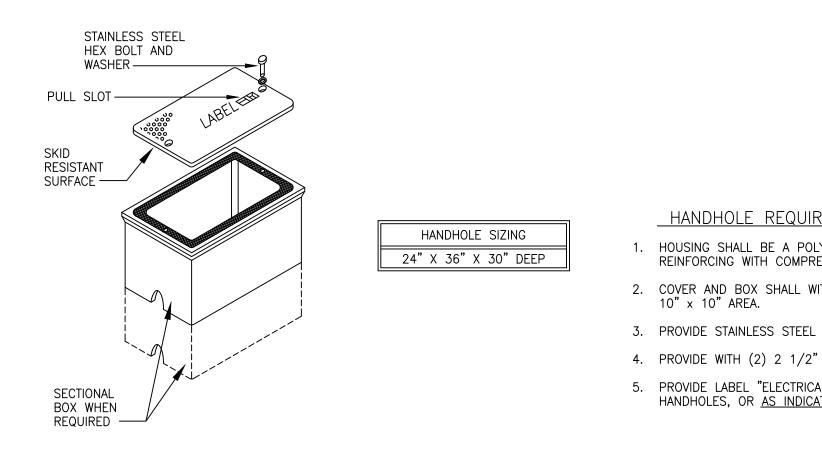
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- SAWCUT 6" EXISTING ASPHALT FOR TRENCHING

- MATCH EXISTING FINISH GRADE

- LOCATOR TAPE

- ELECTRICAL CONDUIT





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