

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: PaolaVega@miamibeachfl.gov
(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 **NOT** 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)	\$ 8,125.00
10% Overhead & Profit on Self-Performed Work	\$ 812.50
7.5% Overhead and Profit on Subcontractor Work	<u>\$ 23,639.55</u>
Subtotal	\$ 32,577.05

Work by F&L Fire & Electrical System, Inc.

Labor, Material & Equipment	\$ 315,194.00
10% Overhead and Profit	<u>\$ INCL.</u>
Subtotal (see attached proposal)	\$ 315,194.00

Total of this Change Order Request

\$ 347,771.05

The Contract Time will be increased by

To Be Determined

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

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





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

CPR NO.: 6

DATE: May 4, 2020

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 Limits (excluding conduits)

1	Project Supervision & Coordination	125	HRS.	@	\$65.00	/HR	\$	8,125.00
2	Field Investigations & Exploratory Work	0	HRS.	@	\$65.00	/HR	\$	-
3	Estimating	0	HRS.	@	\$65.00	/HR	\$	-
4	Project Schedule Update for Change Order Work	0	HRS.	@	\$65.00	/HR	\$	-
5	As-built Revisions for Change Order Work	0	HRS.	@	\$65.00	/HR	\$	-
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
Labor Costs Subtotal							\$	8,125.00
10% Overhead and Profit							\$	812.50
Subtotal for Labor Costs							\$	8,937.50
DIRECT MATERIAL COSTS								
16				@		/EA	\$	-
17				@		/EA	\$	-
18	Fuel for Equipment	0	L/S	@		/EA	\$	-
19	Sales Tax @ 7%			@		/EA	\$	-
20	Pick-up & Delivery of Material	0	L/S	@		/EA	\$	-
Material Costs Subtotal							\$	-
10% Overhead and Profit							\$	-
Subtotal for Material Costs							\$	-
DIRECT EQUIPMENT COSTS								
21				@		/EA	\$	-
22				@		/EA	\$	-
23				@		/EA	\$	-
24	Pick-up & Delivery of Equipment		EA	@		/EA	\$	-
25	Insurance @ 14%			@		/EA	\$	-
26	Sales Tax @ 7%			@		/EA	\$	-
Equipment Costs Subtotal							\$	-
10% Overhead and Profit							\$	-
Subtotal for Equipment Costs							\$	-
VENDOR / SUBCONTRACTOR COST								
27	F&L Fire & Electrical System, Inc. (See Attached Breakdown)						\$	315,194.00
28								
29								
Subcontractor Cost Subtotal							\$	315,194.00
10% Subcontractor Overhead and Profit							INCL	
Subtotal for Subcontractor Work							\$	315,194.00
7.5% Contractor Overhead and Profit on Subcontractor Work							\$	23,639.55
Total for Subcontracted Work							\$	338,833.55
CREDITS								
30								
Credit Costs							\$	-
Total Costs and Credits (sum of items in bold & in highlight above)							\$	347,771.05



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 36th 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

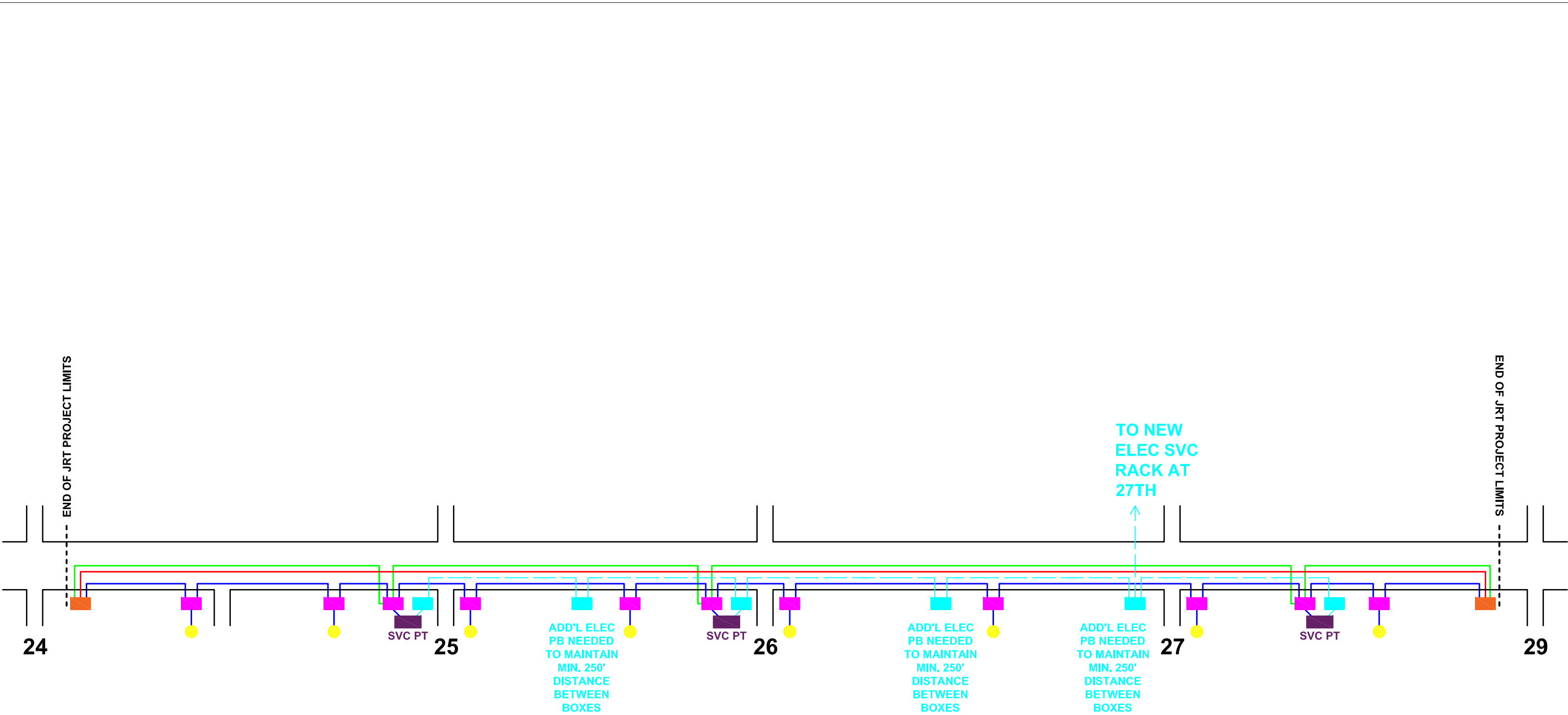
General Materials:	\$204,152
Materials Tax (7%):	\$14,291
Total Materials:	<u>\$218,443</u>

Labor: (1,388 Hrs @ \$45.42):	<u>\$63,043</u>
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Equipment rent (Hydraulic Excavator rock bucket):	<u>\$5,054</u>
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Overhead / Profit (10%):	<u>\$28,654</u>
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Total:	\$315,194
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2" ELECTRICAL CONDUIT

2" COMM. HH AT SVC POINT TO COMM. HH TO CAMERA POLES

2" SPARE, FROM 24th to 29th END OF JOB HHs

3" SERVICE POINT COMM BOX TO SERVICE POINT COMM BOX

CAMERA POLE

COMM. HAND HOLE

ELEC. HAND HOLE

END OF JOB HAND HOLE FOR FUTURE CONNECTIONS TO 24 ST & 29 ST

SERVICE POINT

- GLUE CAP AT 2" SPARE CONDUIT AT HANDHOLES AT 24th and 29th

- PUT STRING LINE IN THE 2" SPARE CONDUIT FOR PULLING

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

MIAMI BEACH

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>
Sent: Thursday, April 23, 2020 9:34 AM
To: hector rodriguez <hector@sfla-elec.com>
Cc: Aragunde, Roland <RolandAragunde@miamibeachfl.gov>; Jeovanni Tarafa <jtarafa@tarafaconstruction.com>; Felipe Rodriguez <frodriguez@tarafaconstruction.com>; Leonid del Castillo <leo@fffelectric.com>
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 <hector@sfla-elec.com>
Sent: Wednesday, April 22, 2020 4:55 PM
To: Jose Arana <jarana@tarafaconstruction.com>
Cc: Aragunde, Roland <RolandAragunde@miamibeachfl.gov>; Jeovanni Tarafa <jtarafa@tarafaconstruction.com>; Felipe Rodriguez <frodriguez@tarafaconstruction.com>; Leonid del Castillo <leo@fffelectric.com>
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.

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 <RolandAragunde@miamibeachfl.gov>

Sent: Wednesday, April 22, 2020 1:00 PM

To: Jose Arana <jarana@tarafaconstruction.com>

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](http://1100.Washington.Ave.Miami.Beach.FL.33139)

Tel: [305-673-7776](tel:305-673-7776) ext. 3749 / Fax: [786-394-4829](tel:786-394-4829)

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.

Begin forwarded message:

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

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

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

Subject: Beach walk Sketch from 24th -29th

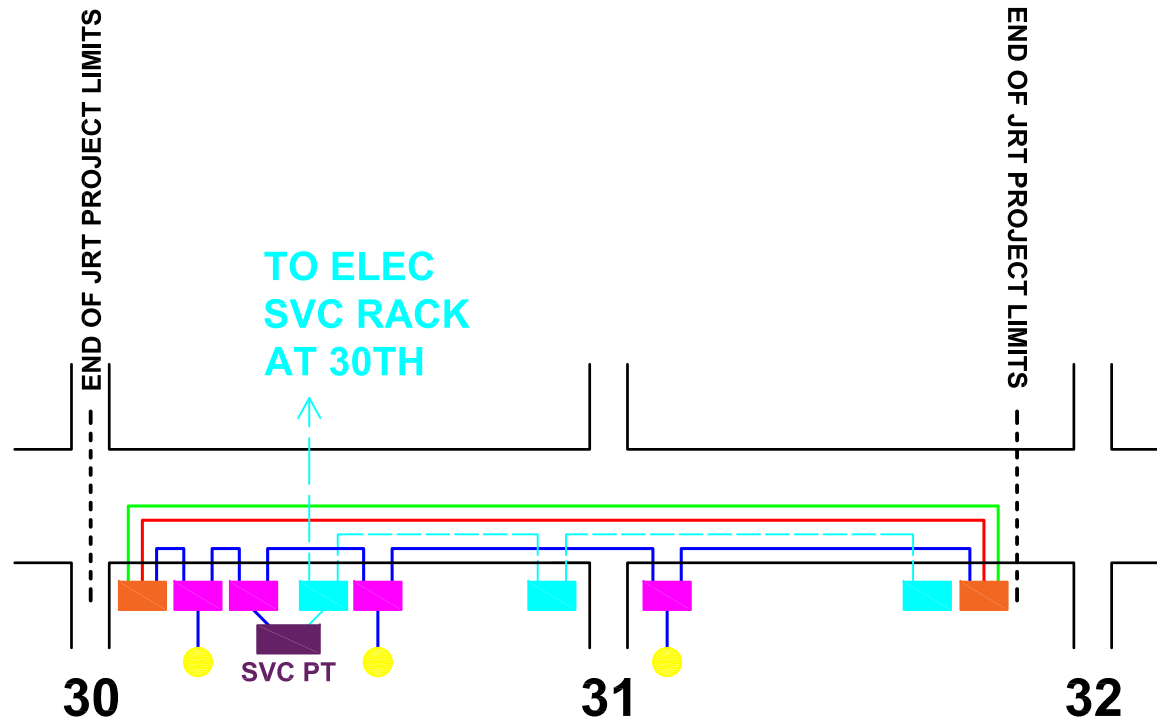
[THIS MESSAGE COMES FROM AN EXTERNAL EMAIL - USE CAUTION WHEN REPLYING AND OPENING LINKS OR ATTACHMENTS]

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



- 2" ELECTRICAL CONDUIT
- 2" COMM. HH AT SVC POINT TO COMM. HH TO CAMERA POLES
- 2" SPARE, FROM 24th to 29th END OF JOB HHs
- 3" SERVICE POINT COMM BOX TO SERVICE POINT COMM BOX
- CAMERA POLE
- COMM. HAND HOLE
- ELEC. HAND HOLE
- END OF JOB HAND HOLE FOR FUTURE CONNECTIONS TO 30 ST & 32 ST
- SERVICE POINT

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 <jtarafa@tarafaconstruction.com>; Felipe Rodriguez <frodriguez@tarafaconstruction.com>

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: [305-673-7776](tel:305-673-7776), ext. 3749 / Fax: [786-394-4829](tel:786-394-4829)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.

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

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

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>; Gianni 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,



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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Jose Arana

From: Aragunde, Roland <RolandAragunde@miamibeachfl.gov>
Sent: Tuesday, March 31, 2020 11:30 AM
To: 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 14Pl-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

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

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.

EQUIPMENT

ELECTRICAL PANEL

ELECTRICAL HANDHOLE

CAMERA POLE

FIELD PANEL

KEYED NOTES:

1. TYPICAL UNDERGROUND ELECTRICAL CONDUIT, SEE DETAIL 1/3-E-501.
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.
6. 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

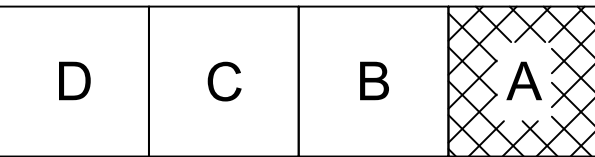
- NORTH FROM 24TH ST. TO 28TH ST. CONTRACTOR TO VERIFY THE CONDITION OF THE EXISTING PANEL. PROVIDE UPDATED TYPED PANEL SCHEDULE. CONTRACTOR TO COORDINATE WITH MIAMI BEACH PUBLIC WORKS AND MIAMI BEACH POLICE DEPARTMENT AND PROVIDE KEYED PADLOCK FOR PANEL.
8. FOR REFERENCE ONLY, 26TH STREET PANEL LOCATION 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.

GENERAL NOTES:

1. THE ELECTRICAL SHEETS SHOW EXISTING CONDITIONS THAT HAVE BEEN PREPARED BASED ON FIELD OBSERVATIONS AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS AND CONDITIONS THAT ARE NOT SHOWN ON THE DRAWINGS MAY EXIST AND MAY REQUIRE CERTAIN REMODELING OR ADJUSTMENTS THAT ARE NOT NOTED ON THE DRAWINGS. FIELD VERIFY THE LOCATIONS OF ALL EXISTING EQUIPMENT AND DEVICES SHOWN ON THE DRAWINGS PRIOR TO BIDDING.
2. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK. UNLESS INDICATED AS EXISTING, ALL MATERIALS AND LABOR SHALL BE CONSIDERED NEW.
3. NOT ALL EXISTING UTILITIES AND OR ELECTRICAL SYSTEMS ARE SHOWN ON PLANS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. COORDINATE WITH THE MIAMI BEACH POLICE DEPARTMENT PRIOR TO COMMENCING WORK.
4. SEE DETAIL 2/3-E-502 FOR CONDUIT AND CONDUCTOR SIZING.

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0	02/07/20	CKG	TDH	ISSUE FOR BID

KEYPLAN



9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400

date	01/17/20	detailed	A. ALLEN
designed	C. KLOS	checked	L. CANNON

MIAMI BEACH

MIAMI BEACH, FL

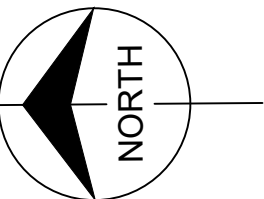
MIAMI BEACH POLICE SURVEILLANCE
MIDDLE BEACH
ELECTRICAL PLAN - AREA A

project	120960	contract	
drawing	3-E-101	rev.	A
sheet	of	sheets	
file	3-E-101.dwg		



ELECTRICAL PLAN - AREA A

1



Scale For Microfilming

Inches

Millimeters

KEYED NOTES:

1. TYPICAL UNDERGROUND ELECTRICAL CONDUIT, SEE DETAIL 1/3-E-501.
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 WITHIN 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. 34TH STREET PANEL LOCATION CONTAINING THE FOLLOWING PANEL:
-LOCKED PANEL, ASSUMED TO BE 120/240V, 1 PHASE.
6. PROVIDE (2) 20/2 BREAKER TO POWER FIELD PANELS. (1) 20/2 TO SERVE FIELD PANELS TO THE NORTH FROM 34TH ST. TO 42ND ST. AND (1) 20/2 TO SERVICE FIELD PANELS TO THE SOUTH FROM 34TH ST. TO 28TH ST. CONTRACTOR TO VERIFY THE CONDITION AND AVAILABILITY OF CIRCUITS OF THE EXISTING PANEL. PROVIDE UPDATED TYPED PANEL SCHEDULE.

GENERAL NOTES:

1. THE ELECTRICAL SHEETS SHOW EXISTING CONDITIONS THAT HAVE BEEN PREPARED BASED ON FIELD OBSERVATIONS AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS AND CONDITIONS THAT ARE NOT SHOWN ON THE DRAWINGS MAY EXIST AND MAY REQUIRE CERTAIN REMODELING OR ADJUSTMENTS THAT ARE NOT NOTED ON THE DRAWINGS. FIELD VERIFY THE LOCATIONS OF ALL EXISTING EQUIPMENT AND DEVICES SHOWN ON THE DRAWINGS PRIOR TO BIDDING.
2. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK. UNLESS INDICATED AS EXISTING, ALL MATERIALS AND LABOR SHALL BE CONSIDERED NEW.
3. NOT ALL EXISTING UTILITIES AND OR ELECTRICAL SYSTEMS ARE SHOWN ON PLANS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. COORDINATE WITH THE MIAMI BEACH POLICE DEPARTMENT PRIOR TO COMMENCING WORK.
4. SEE DETAIL 2/3-E-502 FOR CONDUIT AND CONDUCTOR SIZING.

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Area Between 32nd and 36th St OUTSIDE OF MBRC PH III LIMITS and work shown here is not included within RCO proposal.

Area Between 30th and 29th St OUTSIDE OF MBRC PH III LIMITS and work shown here is not included within RCO proposal.

KEYPLAN

D	C	B	A
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816-333-9400

date	01/17/20	detailed	A. ALLEN
designed	C. KLOS	checked	L. CANNON

MIAMI BEACH

MIAMI BEACH, FL

MIAMI BEACH POLICE SURVEILLANCE
MIDDLE BEACH
ELECTRICAL PLAN - AREA B

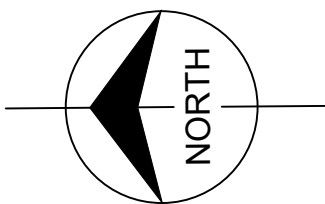
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drawing	3-E-102	rev.	A
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ELECTRICAL PLAN - AREA B

1



no.	date	by	ckd	description
0	02/07/20	CKG	TDH	ISSUE FOR BID

- KEYED NOTES:

1. TYPICAL UNDERGROUND ELECTRICAL CONDUIT, SEE DETAIL 1/3-E-501.
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 WITHIN 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.

- GENERAL NOTES:

1. THE ELECTRICAL SHEETS SHOW EXISTING CONDITIONS THAT HAVE BEEN PREPARED BASED ON FIELD OBSERVATIONS AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS AND CONDITIONS THAT ARE NOT SHOWN ON THE DRAWINGS MAY EXIST AND MAY REQUIRE CERTAIN REMODELING OR ADJUSTMENTS THAT ARE NOT NOTED ON THE DRAWINGS. FIELD VERIFY THE LOCATIONS OF ALL EXISTING EQUIPMENT AND DEVICES SHOWN ON THE DRAWINGS PRIOR TO BIDDING.
2. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK. UNLESS INDICATED AS EXISTING, ALL MATERIALS AND LABOR SHALL BE CONSIDERED NEW.
3. NOT ALL EXISTING UTILITIES AND OR ELECTRICAL SYSTEMS ARE SHOWN ON PLANS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. COORDINATE WITH THE MIAMI BEACH POLICE DEPARTMENT PRIOR TO COMMENCING WORK.
4. SEE DETAIL 2/3-E-502 FOR CONDUIT AND CONDUCTOR SIZING.



Area Between 32nd and 36th St OUTSIDE OF MBRC PH III LIMITS and work shown here is not included within RCO proposal.

KEYPLAN

D	C	B	A
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date	detailed
01/17/20	A. ALLEN
designed	checked
C. KLOS	L. CANNON

MIAMI BEACH

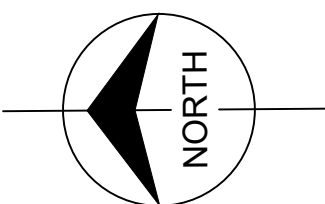
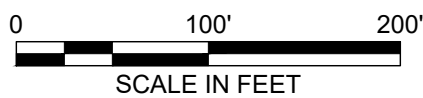
MIAMI BEACH, FL

MIAMI BEACH POLICE SURVEILLANCE
MIDDLE BEACH
ELECTRICAL PLAN - AREA C

project	120960	contract	
drawing	3-E-103	rev.	A
sheet	of	sheets	
file 3-E-103.dwg			

ELECTRICAL PLAN - AREA C

1



KEYED NOTES: #

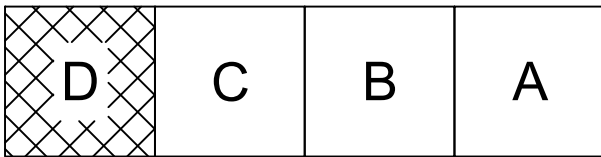
1. TYPICAL UNDERGROUND ELECTRICAL CONDUIT, SEE DETAIL 1/3-E-501.
2. TYPICAL LOCATION OF FIELD PANEL. SEE DETAIL 3/3-E-501 FOR DETAILS.
3. NEW CAMERA POLE. SEE DETAIL 1/3-E-502 FOR POLE AND POLE BASE DETAIL. PLACEMENT OF POLE SHALL BE POSITIONED WITHIN 2' OF THE BOARDWALK AND PRESENT CLEAR FIELD OF VIEWS WITH THE CAMERAS. COORDINATE FINAL LOCATIONS WITH MIAMI BEACH POLICE DEPARTMENT.
4. PROVIDE ELECTRICAL HANDHOLE, SEE DETAIL 2/3-E-501 FOR DETAILS.
5. 46TH STREET PANEL LOCATION CONTAINING THE FOLLOWING PANEL:
 - EATON 120/240V, 1 PHASE, 100A BUSS, 100A MCB, 18 POLE TOTAL, NO PANEL SCHEDULE CURRENTLY AVAILABLE, 2 SPACES AVAILABLE. SOME CIRCUITS APPEAR TO BE OFF OR SPARE.
6. PROVIDE (1) 20/2 BREAKER TO POWER FIELD PANELS TO SERVE FIELD PANELS TO THE SOUTH FROM 43RD. TO 46TH ST. CONTRACTOR TO VERIFY THE CONDITION AND AVAILABILITY OF CIRCUITS OF THE EXISTING PANEL. PROVIDE UPDATED TYPED PANEL SCHEDULE. CONTRACTOR TO COORDINATE WITH MIAMI BEACH PUBLIC WORKS AND MIAMI BEACH POLICE DEPARTMENT AND PROVIDE KEYED PADLOCK FOR PANEL.

GENERAL NOTES:

1. THE ELECTRICAL SHEETS SHOW EXISTING CONDITIONS THAT HAVE BEEN PREPARED BASED ON FIELD OBSERVATIONS AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS AND CONDITIONS THAT ARE NOT SHOWN ON THE DRAWINGS MAY EXIST AND MAY REQUIRE CERTAIN REMODELING OR ADJUSTMENTS THAT ARE NOT NOTED ON THE DRAWINGS. FIELD VERIFY THE LOCATIONS OF ALL EXISTING EQUIPMENT AND DEVICES SHOWN ON THE DRAWINGS PRIOR TO BIDDING.
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3. NOT ALL EXISTING UTILITIES AND OR ELECTRICAL SYSTEMS ARE SHOWN ON PLANS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. COORDINATE WITH THE MIAMI BEACH POLICE DEPARTMENT PRIOR TO COMMENCING WORK.
4. SEE DETAIL 2/3-E-502 FOR CONDUIT AND CONDUCTOR SIZING.

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0	02/07/20	CKG	TDH	ISSUE FOR BID

KEYPLAN



**BURNS
MEDONNELL**

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816-333-9400

date	01/17/20	detailed	A. ALLEN
designed	C. KLOS	checked	L. CANNON

MIAMI BEACH

MIAMI BEACH, FL

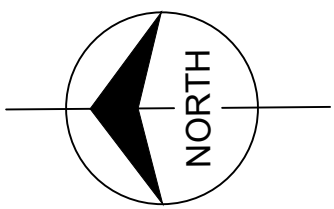
MIAMI BEACH POLICE SURVEILLANCE
MIDDLE BEACH
ELECTRICAL PLAN - AREA D

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drawing	3-E-104	rev.	A
sheet	of	sheets	
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ELECTRICAL PLAN - AREA D

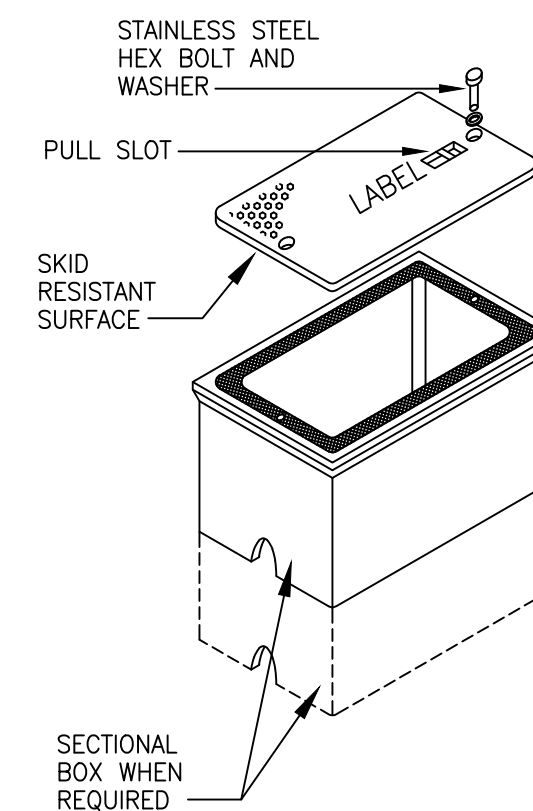
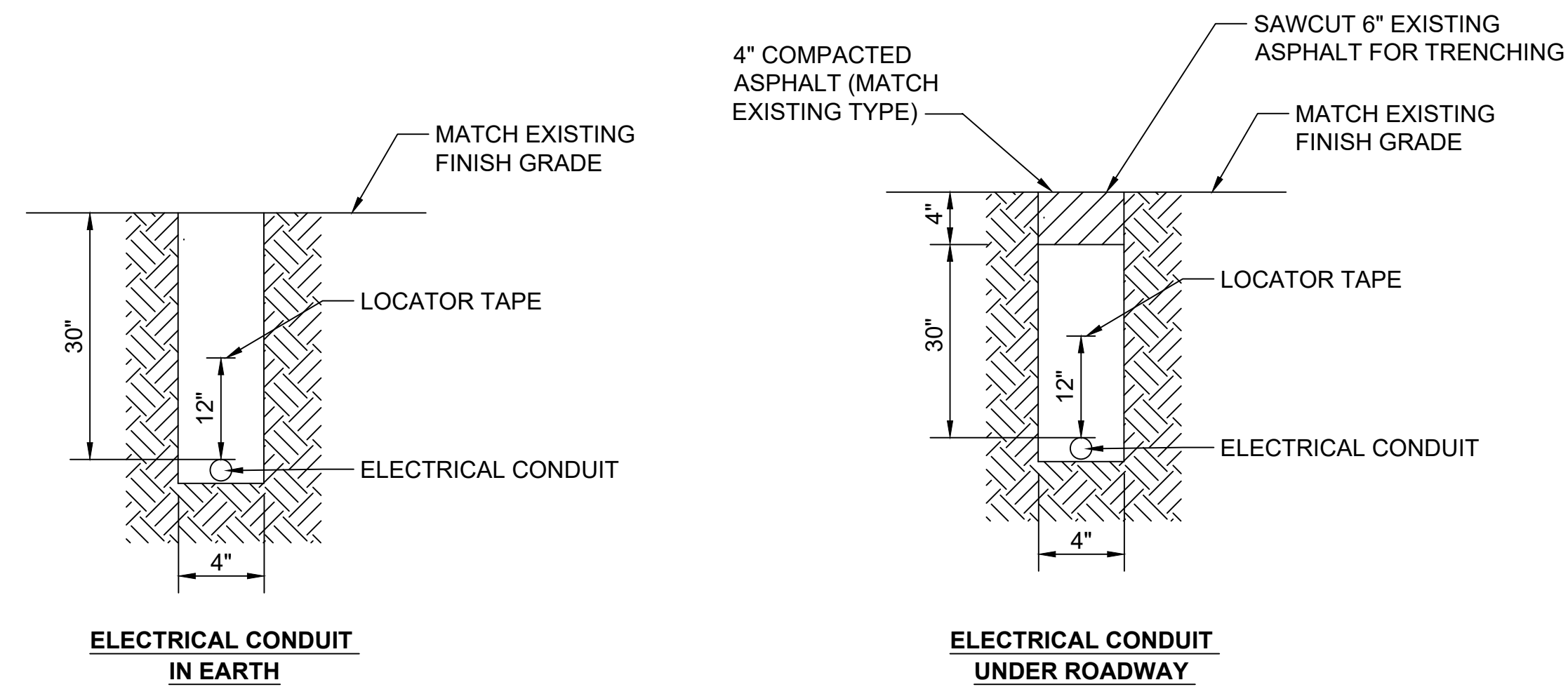
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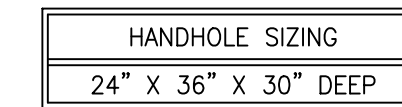
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Inches

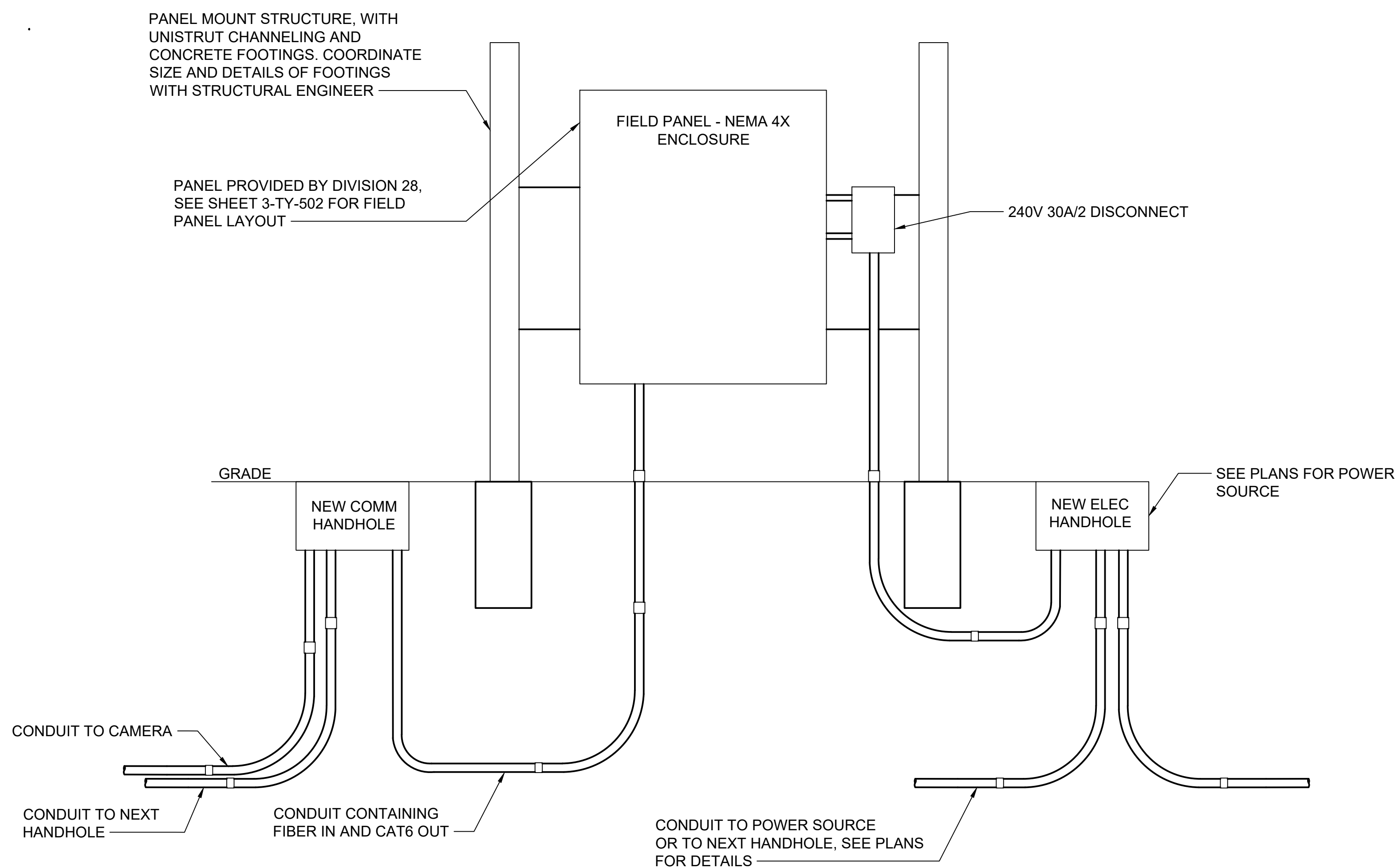
Millimeters



- ### HANDHOLE REQUIREMENTS
1. HOUSING SHALL BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
 2. COVER AND BOX SHALL WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" x 10" AREA.
 3. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
 4. PROVIDE WITH (2) 2 1/2" MOUSEHOLES.
 5. PROVIDE LABEL "ELECTRICAL" FOR POWER HANDHOLES OR "COMMUNICATIONS" FOR TELECOMMUNICATIONS HANDHOLES, OR AS INDICATED.



TYPICAL ELECTRICAL HANDHOLE DETAIL



- NOTE:**
1. PROVIDE FIELD PANEL TO EVERY LOCATION SHOWN ON ELECTRICAL PLANS.
 2. SEE SHEET 3-E-502 FOR ELECTRICAL CONDUIT AND CONDUCTOR SIZING.
 3. SEE 'TN' SERIES SHEETS FOR CONDUIT SIZING.
 4. SEE 'TY' SERIES FOR SECURITY ONE LINE DIAGRAMS.

TYPICAL FIELD PANEL - ELEVATION

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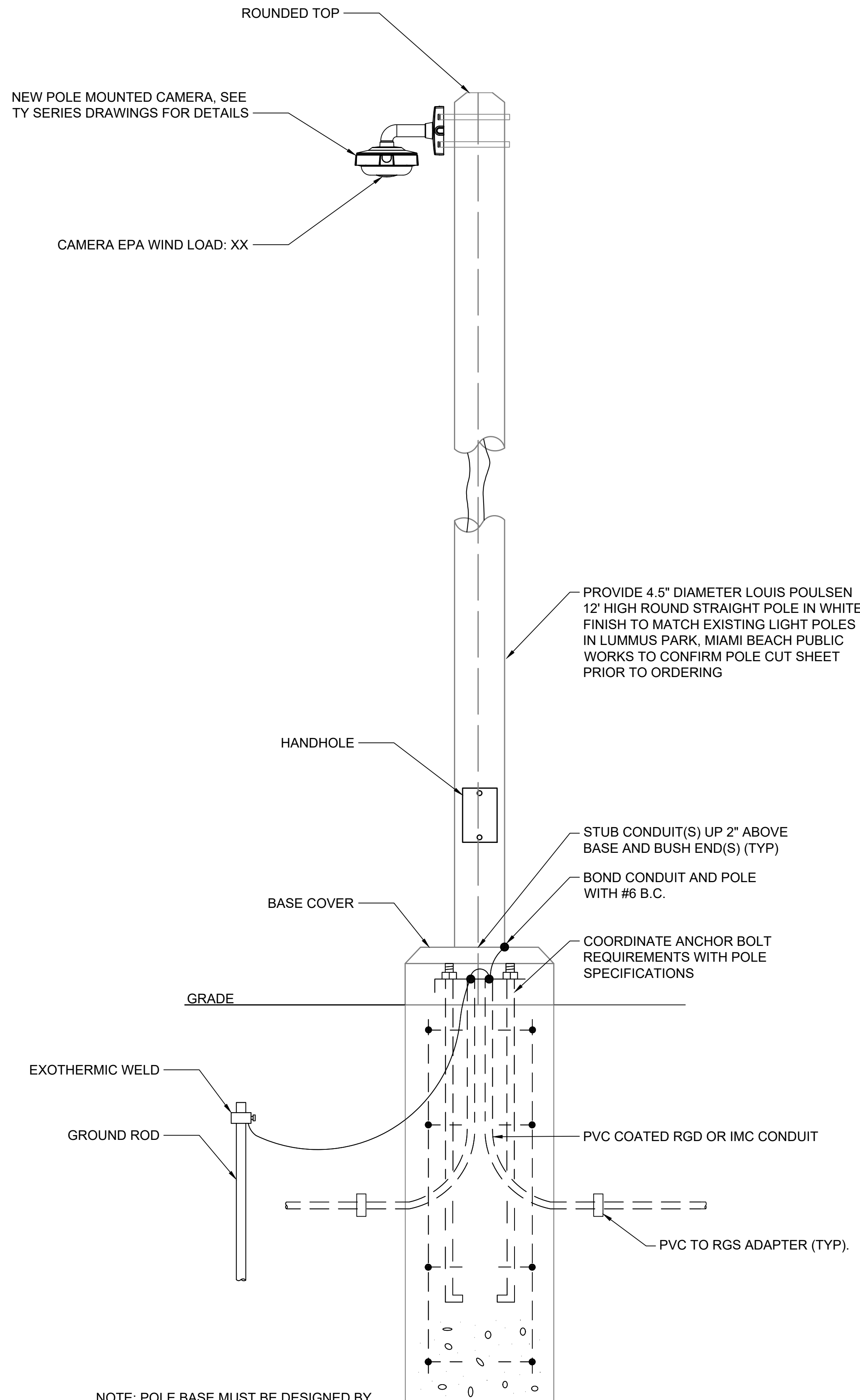
date 01/17/20	detailed A. ALLEN
designed C. KLOS	checked L. CANNON

MIAMI BEACH

MIAMI BEACH, FL

MIAMI BEACH POLICE SURVEILLANCE MIDDLE BEACH ELECTRICAL DETAILS

project	contract
120960	
drawing	rev.
3-E-501	A
sheet	of sheets
file 3-E-501.dwg	

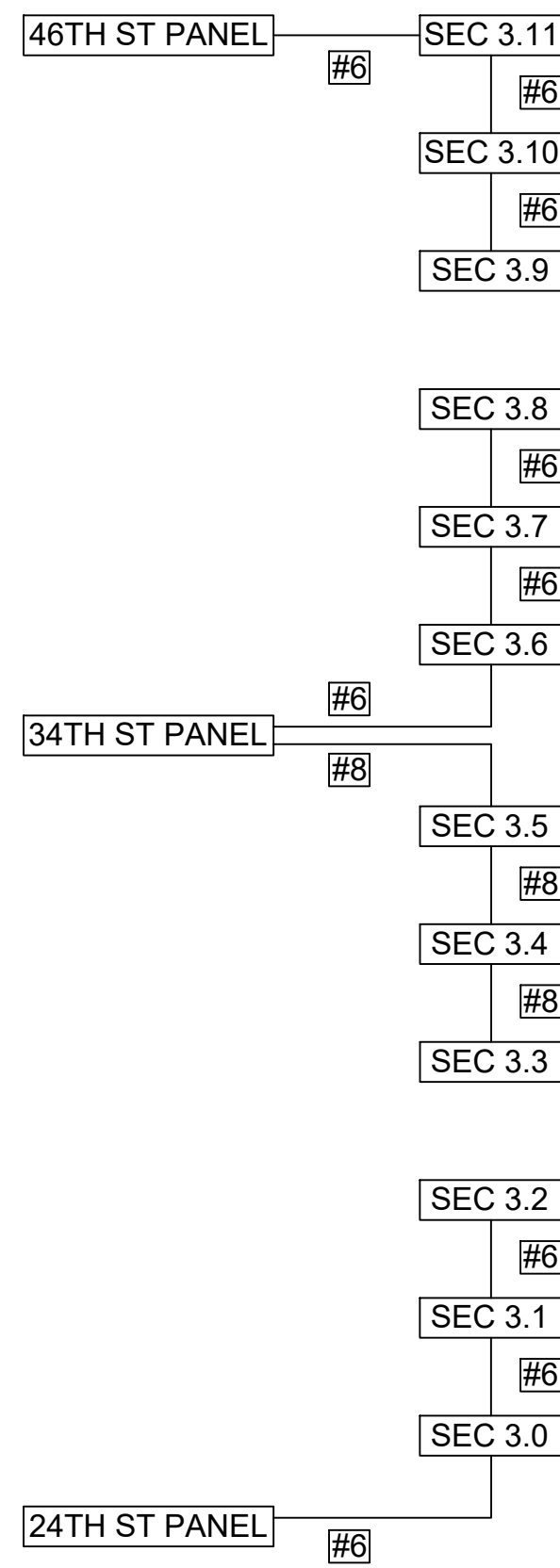


NOTE: POLE BASE MUST BE DESIGNED BY A STRUCTURAL ENGINEER. ANY DETAILS SHOWN ARE FOR REFERENCE ONLY.

TYPICAL CAMERA POLE
NOT TO SCALE

1

THIS RCO IS FOR CONDUIT ONLY.
ALL OTHER ITEMS SHOWN ON THIS
PLAN PAGE ARE NOT INCLUDED.



CONDUIT AND BRANCH
CIRCUIT DIAGRAM
NOT TO SCALE

2

FEEDER AND BRANCH CIRCUIT SCHEDULE			
MARK	PHASE CONDUCTORS	EQUIP. GROUND CONDUCTOR	1ø / 2W CONDUIT SIZE
#12	#12	#12	3/4"
#10	#10	#10	3/4"
#8	#8	#10	1"
#6	#6	#10	1"

NOTE: CONDUCTOR SIZES HAVE BEEN INCREASED AS NOTED FOR VOLTAGE DROP. CONTRACTOR TO VERIFY WITH ACTUAL CONDUIT ROUTING AND FIELD PANEL PLACEMENT.

no.	date	by	ckd	description
0	02/07/20	CKG	TDH	ISSUE FOR BID



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816-333-9400

date	01/17/20	detailed	A. ALLEN
designed	C. KLOS	checked	L. CANNON

MIAMI BEACH






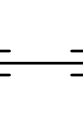

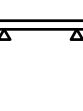
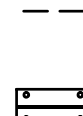



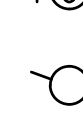
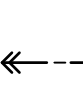
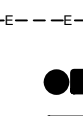







MIAMI BEACH, FL

MIAMI BEACH POLICE SURVEILLANCE
MIDDLE BEACH
ELECTRICAL DETAILS

project	120960	contract	
drawing		rev.	
3-E-502		A	
sheet	of	sheets	
file 3-E-502.dwg			

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

COMMUNICATION SYMBOLS



	ONE (1) CATEGORY 6 CABLE ON 8P/8C CONNECTOR ON WALL PHONE FACEPLATE
	# 6 CABLES ON 8P/8C CONNECTOR (VOICE)
	# 6 CABLES ON 8P/8C CONNECTORS
	# 6 CABLES ON 8P/8C CONNECTORS (DATA)
	DENOTES CEILING MOUNTED OUTLET
	DENOTES CEILING MOUNTED OUTLET
	COMMUNICATIONS CABLING SLEEVE OR CONDUIT
	OVERHEAD CABLE TRAY, 12"W UNLESS NOTED OTHERWISE
	TELECOM GROUND BAR
	UNDERGROUND CONDUIT OR TRENCH
	483 [19"] COMMUNICATIONS EQUIPMENT RACK
	CONDUIT DOWN
	CONDUIT UP
	JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	UTILITY POLE BY OTHERS - REFER TO ELECTRICAL DRAWINGS
	CONDUIT SECTION INSTALLED VIA DIRECTIONAL BORE
	ELECTRICAL DUCTBANK
	POLE WITH RISER
	MAINTENANCE HOLE
	HAND HOLE
	FIELD PANEL

ABBREVIATIONS

ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
BCC	BACKBONE COPPER CABLE
BKBD	BACKBOARD
BSMT	BASEMENT
BMS	BALANCE MAGNETIC SWITCH
CAT 6	4 - PAIR, CATEGORY 6 UTP CABLE
CATV	COMMUNITY ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CD	CABLE DUCT
CER	COMMUNICATIONS EQUIPMENT ROOM
CLST	CLOSET
CMH	COMMUNICATIONS MAINTENANCE HOLE
COMM	COMMUNICATIONS
CT	CABLE TRAY
DEMO	DEMOLITION
DIST	DISTRIBUTION
EES	EARTH ELECTRODE SYSTEM
EF	ENTRANCE FACILITY
EMT	ELECTRICAL METALLIC TUBING
ENL	EXISTING NEW LOCATION
ETM	EXISTING TO MOVE
ETR	EXISTING TO REMAIN
ETBR	EXISTING TO BE REMOVED
GF/GI	GOVERNMENT FURNISHED
	GOVERNMENT INSTALLED
GF/CI	GOVERNMENT FURNISHED
	CONTRACTOR INSTALLED
GI/CF	GOVERNMENT INSTALLED
	CONTRACTOR FURNISHED
GND	GROUND
HH	HANDHOLE
IAW	IN ACCORDANCE WITH
IDC	INSULATION DISPLACEMENT CONNECTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM
IC	INTERMEDIATE CROSS - CONNECT
IMC	INTERMEDIATE METAL CONDUIT
LAN	LOCAL AREA NETWORK
MAX	MAXIMUM
MH	MANHOLE
MIN	MINIMUM
MM	MULTIMODE FIBER
MNS	MASS NOTIFICATION SYSTEM
MSB	MAIN SERVICE BUS
MTD	MOUNTED
MTDP	MASTER TARGET DATA PANEL
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OBI	OPTIONAL BID ITEM
OFC	OPTIONAL FIBER CABLE
OLI	OPTIONAL LINE ITEM
OSP	OUTSIDE PLANT
PA	PUBLIC ADDRESS
PET	PROTECTED ENTRANCE TERMINAL
PR	PAIR
PT	POINT
PTZ	PAN / TILT / ZOOM
PVC	POLYVINYL CHLORIDE
ROCA	RANGE OPERATIONS / CONTROL AREA
RGS	RIGID GALVANIZED STEEL
RSC	RIGID STEEL CONDUIT
RM	ROOM
RMC	RIGID METAL CONDUIT
RU	RACK UNIT
SCTP	SCREENED TWISTED PAIR
SHT	SHEET
SM	SINGLEMODE FIBER
TBL	TABLE
TDP	TARGET DATA PANEL
TGB	TELECOM GROUNDING BUS BAR
TMBG	TELECOM MAIN GROUNDING BUS BAR
TR	TELECOM ROOM
TV	TELEVISION
Typ	TYPICAL
UL	UNDERWRITERS LABORATORY
UNO	UNLESS OTHERWISE NOTED
UTO	UNIVERSAL TARGET OUTLET
UTP	UNSHIELDED TWISTED PAIR
UXO	UNEXPLODED ORDNANCE
W/	WITH

COMMUNICATIONS
GENERAL NOTES:

1. ALL COPPER TERMINATION HARDWARE TO BE SCREW TERMINAL TYPE, UNO.
2. TERMINATE ALL CONDUCTORS: NO CABLE SHALL CONTAIN NON TERMINATED ELEMENTS EXCEPT THE 25TH PAIR OF BINDER GROUPS IN MULTI - PAIR COPPER BACKBONE CABLE. MAKE TERMINATION ONLY AT INDICATED OUTLETS, TERMINALS, CROSS - CONNECTS, AND PATCH PANELS.
3. CABLE MAY NOT BE SPLICED, UNO.
4. MONITOR CABLE PULL TENSION TO ENSURE MANUFACTURER RECOMMENDATION AND INDUSTRY STANDARDS ARE NOT EXCEEDED.
5. PROVIDE PULL STRING IN ALL EMPTY CONDUIT OR INNERDUCT. PULL STRING TO RATED FOR 200 LBS. IN ALL CONDUIT.
6. PROVIDE HANDHOLES FOR IN CONDUITS NO MORE THAN 400 - FEET APART AND EVERY 180 DEGREES OF BEND.
7. NO CONDULETS OR SIMILAR FITTINGS SHALL BE USED.
8. INSTALLATION CONTRACTOR SHALL INSURE ALL FIELD INSTRUCTIONS OF ALL CATEGORY 6 DATA CABLES DO NOT EXCEED THE ALLOWABLE 90 METERS [295'] BETWEEN TERMINATIONS.

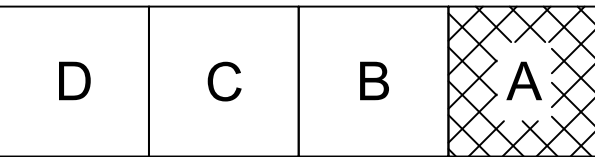
no.	date	by	ckd	description
0	02/07/20	CKG	TDH	ISSUE FOR BID
 <p>9400 WARD PARKWAY KANSAS CITY, MO 64114 816-333-9400</p>				
date 01/17/20		detailed A. ALLEN		
designed C. KLOS		checked L. CANNON		
 <p>MIAMI BEACH, FL</p> <p>MIAMI BEACH POLICE SURVEILLANCE MIDDLE BEACH TELECOMMUNICATIONS SYMBOLS, ABBREVIATIONS, AND NOTES</p>				
project 120960		contract		
drawing 3-TN001		rev. A		
sheet file 3-TN001.dwg		of sheets		

- KEYED NOTES: #
1. PROVIDE 3" SCHEDULE 40 PVC UNDERGROUND TELECOMMUNICATIONS CONDUIT. ROUTE PARALLEL TO ELECTRICAL CONDUIT WHEN POSSIBLE.
 2. PROVIDE QUAZITE BOX HANDHOLE FOR TELECOMMUNICATIONS CABLING. INSTALL ADJACENT TO NEW CAMERA POLE AND ELECTRICAL HANDHOLE WHERE FEASIBLE. PROVIDE 3/4" CONDUIT ROUTED TO CAMERA POLE BASE FOR POE CABLE. SEE DETAIL 2/3-TN501 FOR HANDHOLE DETAIL.
 3. EXISTING HANDHOLE INSTALLED AS PART OF THE 14TH-23RD STREET PROJECT.
 4. PROVIDE QUAZITE BOX HANDHOLE FOR TELECOMMUNICATIONS CABLING. INSTALL ADJACENT TO FIELD PANEL AND ELECTRICAL HANDHOLE WHERE FEASIBLE. SEE DETAIL 2/3-TN501 FOR HANDHOLE DETAIL AND SHEET 3/3-E-501 FOR FIELD PANEL DETAIL.

- GENERAL NOTES:
1. THE TELECOMMUNICATION SHEETS SHOW EXISTING CONDITIONS THAT HAVE BEEN PREPARED BASED ON FIELD OBSERVATIONS AND ORIGINAL DRAWINGS. ADDITIONAL COMPONENTS AND CONDITIONS THAT ARE NOT SHOWN ON THE DRAWINGS MAY EXIST AND MAY REQUIRE CERTAIN REMODELING OR ADJUSTMENTS THAT ARE NOT NOTED ON THE DRAWINGS. FIELD VERIFY THE LOCATIONS OF ALL EXISTING EQUIPMENT AND DEVICES SHOWN ON THE DRAWINGS PRIOR TO BIDDING.
 2. THE LOW VOLTAGE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK. UNLESS INDICATED AS EXISTING, ALL MATERIALS AND LABOR SHALL BE CONSIDERED NEW.
 3. NOT ALL EXISTING UTILITIES AND OR ELECTRICAL SYSTEMS ARE SHOWN ON PLANS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATIONS OF ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. COORDINATE WITH THE MIAMI BEACH POLICE DEPARTMENT PRIOR TO COMMENCING WORK.

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KEYPLAN



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KANSAS CITY, MO 64114
816-333-9400

date	01/17/20	detailed	A. ALLEN
designed	C. KLOS	checked	L. CANNON

MIAMI BEACH

MIAMI BEACH, FL

MIAMI BEACH POLICE SURVEILLANCE
MIDDLE BEACH
TELECOMMUNICATIONS PLAN - AREA A

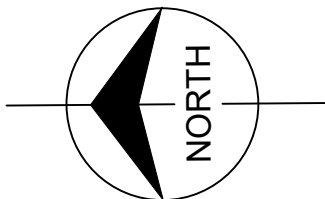
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drawing	3-TN101	rev.	A
sheet	of	sheets	
file	3-TN101.dwg		



TELECOMMUNICATIONS
PLAN - AREA A

1

0 100' 200'
SCALE IN FEET



Scale For Microfilming
Millimeters

Inches

KEYED NOTES:

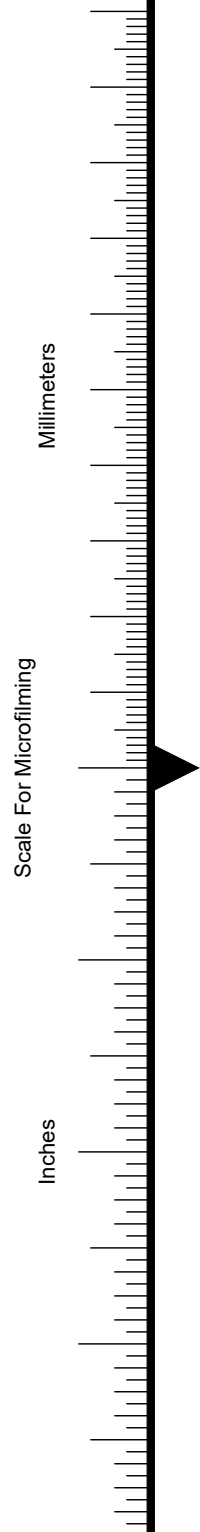
#

1. PROVIDE 3" SCHEDULE 40 PVC UNDERGROUND TELECOMMUNICATIONS CONDUIT. ROUTE PARALLEL TO ELECTRICAL CONDUIT WHEN POSSIBLE.
2. PROVIDE QUAZITE BOX HANDHOLE FOR TELECOMMUNICATIONS CABLING. INSTALL ADJACENT TO NEW CAMERA POLE AND ELECTRICAL HANDHOLE WHERE FEASIBLE. PROVIDE 3/4" CONDUIT ROUTED TO CAMERA POLE BASE FOR POE CABLE. SEE DETAIL 2/3-TN501 FOR HANDHOLE DETAIL.
3. PROVIDE QUAZITE BOX HANDHOLE FOR TELECOMMUNICATIONS CABLING. INSTALL ADJACENT TO FIELD PANEL AND ELECTRICAL HANDHOLE WHERE FEASIBLE. SEE DETAIL 2/3-TN501 FOR HANDHOLE DETAIL AND SHEET 3/3-E-501 FOR FIELD PANEL DETAIL.

GENERAL NOTES:

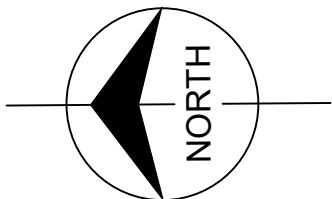
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2. THE LOW VOLTAGE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK. UNLESS INDICATED AS EXISTING, ALL MATERIALS AND LABOR SHALL BE CONSIDERED NEW.
3. NOT ALL EXISTING UTILITIES AND OR ELECTRICAL SYSTEMS ARE SHOWN ON PLANS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATIONS OF ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. COORDINATE WITH THE MIAMI BEACH POLICE DEPARTMENT PRIOR TO COMMENCING WORK.

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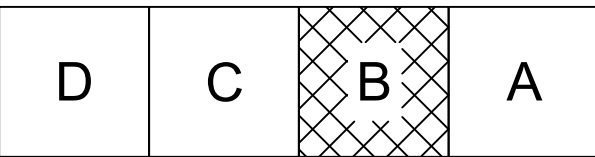


TELECOMMUNICATIONS
PLAN - AREA B

1



KEYPLAN



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KANSAS CITY, MO 64114
816-333-9400

date	01/17/20	detailed	A. ALLEN
designed	C. KLOS	checked	L. CANNON

MIAMI BEACH

MIAMI BEACH, FL

MIAMI BEACH POLICE SURVEILLANCE
MIDDLE BEACH
TELECOMMUNICATIONS PLAN - AREA B

project	120960	contract	
drawing	3-TN102	rev.	A
sheet	of	sheets	
file	3-TN102.dwg		

- KEYED NOTES: #
1. UPROVIDE 3" SCHEDULE 40 PVC UNDERGROUND TELECOMMUNICATIONS CONDUIT. ROUTE PARALLEL TO ELECTRICAL CONDUIT WHEN POSSIBLE.
 2. PROVIDE QUAZITE BOX HANDHOLE FOR TELECOMMUNICATIONS CABLING. INSTALL ADJACENT TO NEW CAMERA POLE AND ELECTRICAL HANDHOLE WHERE FEASIBLE. PROVIDE 3/4" CONDUIT ROUTED TO CAMERA POLE BASE FOR POE CABLE. SEE DETAIL 2/3-TN501 FOR HANDHOLE DETAIL.
 3. PROVIDE QUAZITE BOX HANDHOLE FOR TELECOMMUNICATIONS CABLING. INSTALL ADJACENT TO FIELD PANEL AND ELECTRICAL HANDHOLE WHERE FEASIBLE. SEE DETAIL 2/3-TN501 FOR HANDHOLE DETAIL AND SHEET 3/3-E-501 FOR FIELD PANEL DETAIL.

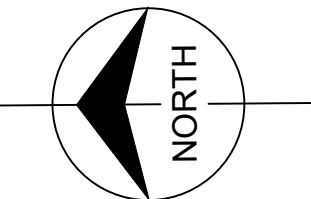
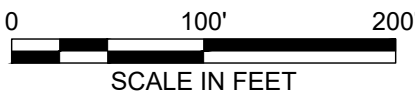
- GENERAL NOTES:
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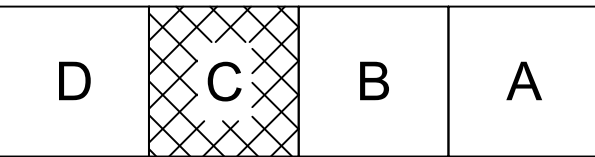


TELECOMMUNICATIONS
PLAN - AREA C

1



KEYPLAN



**BURNS
MCDONNELL**

9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400

date	01/17/20	detailed	A. ALLEN
designed	C. KLOS	checked	L. CANNON

MIAMI BEACH

MIAMI BEACH, FL

**MIAMI BEACH POLICE SURVEILLANCE
MIDDLE BEACH
TELECOMMUNICATIONS PLAN - AREA C**

project	120960	contract	
drawing	3-TN103	rev.	A
sheet	of	sheets	
file	3-TN103.dwg		

KEYED NOTES:

1. PROVIDE 3" SCHEDULE 40 PVC UNDERGROUND TELECOMMUNICATIONS CONDUIT. ROUTE PARALLEL TO ELECTRICAL CONDUIT WHEN POSSIBLE.
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3. PROVIDE QUAZITE BOX HANDHOLE FOR TELECOMMUNICATIONS CABLING. INSTALL ADJACENT TO FIELD PANEL AND ELECTRICAL HANDHOLE WHERE FEASIBLE. SEE DETAIL 2/3-TN501 FOR HANDHOLE DETAIL AND SHEET 3/3-E-501 FOR FIELD PANEL DETAIL.

GENERAL NOTES:

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no.	date	by	ckd	description
0	02/07/20	CKG	TDH	ISSUE FOR BID

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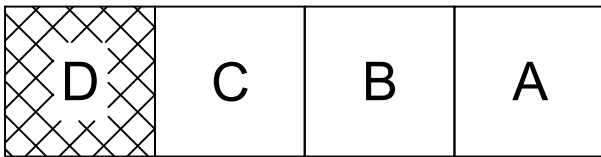
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KEYPLAN



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date	01/17/20	detailed	A. ALLEN
designed	C. KLOS	checked	L. CANNON



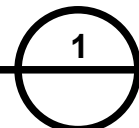
MIAMI BEACH, FL

MIAMI BEACH POLICE SURVEILLANCE
MIDDLE BEACH
TELECOMMUNICATIONS PLAN - AREA D

project	120960	contract	
drawing	3-TN104	rev.	A
sheet	of	sheets	
file	3-TN104.dwg		



TELECOMMUNICATIONS
PLAN - AREA D

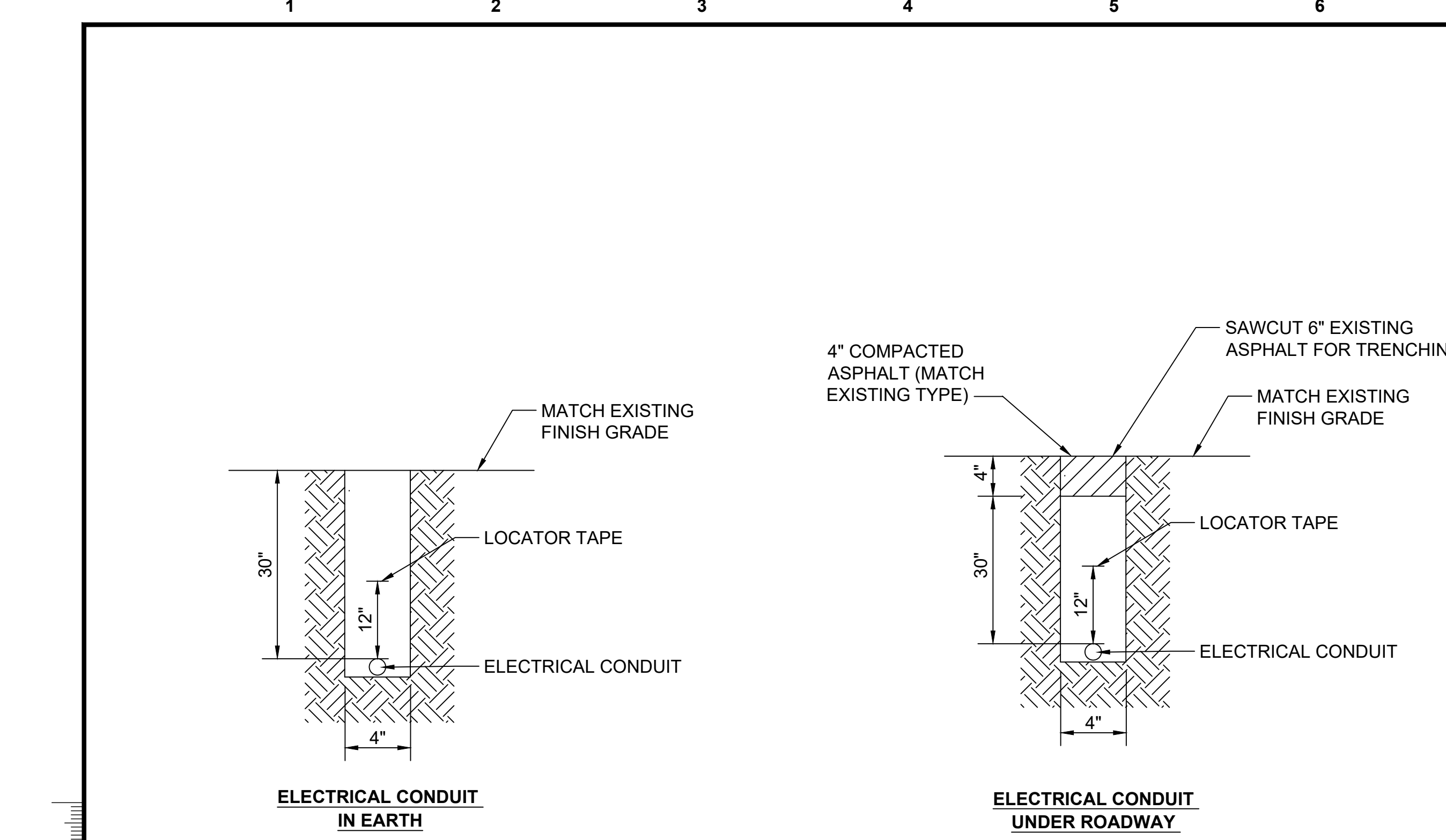


0 100' 200'
SCALE IN FEET

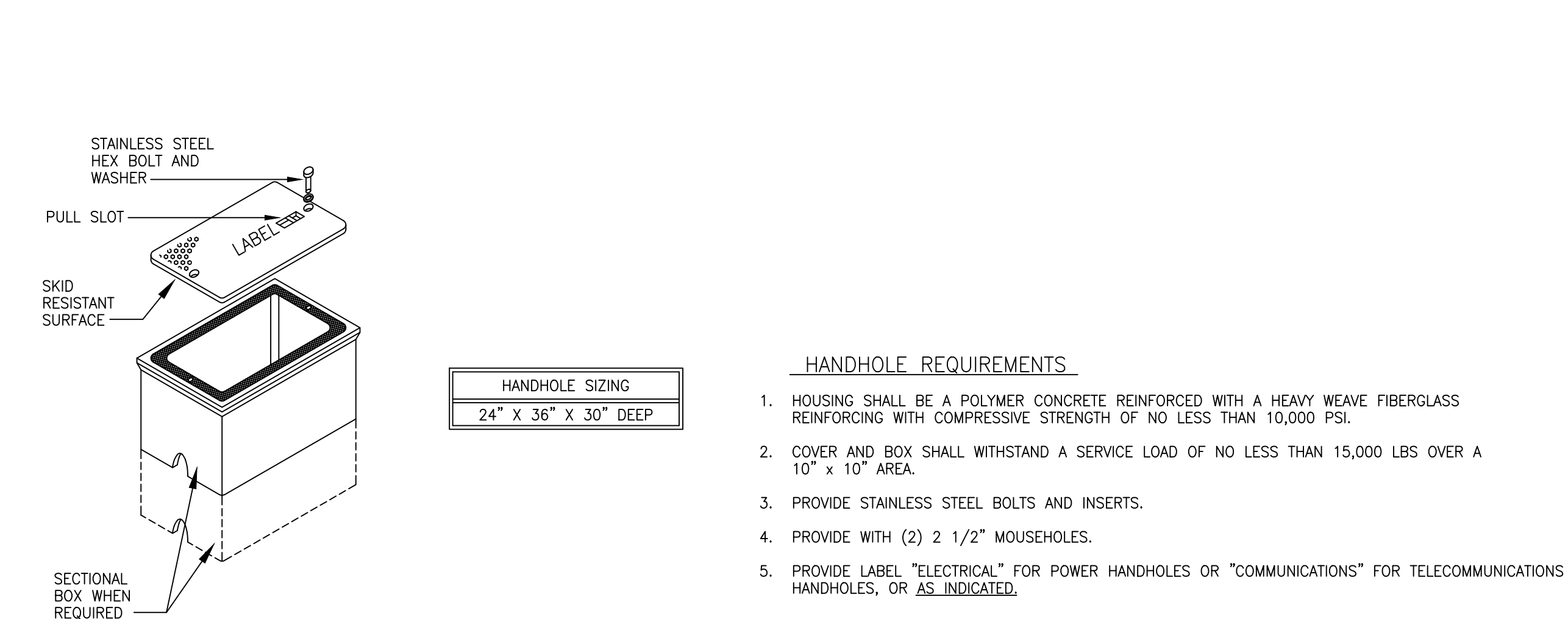
Scale For Microfilming

Inches

Millimeters



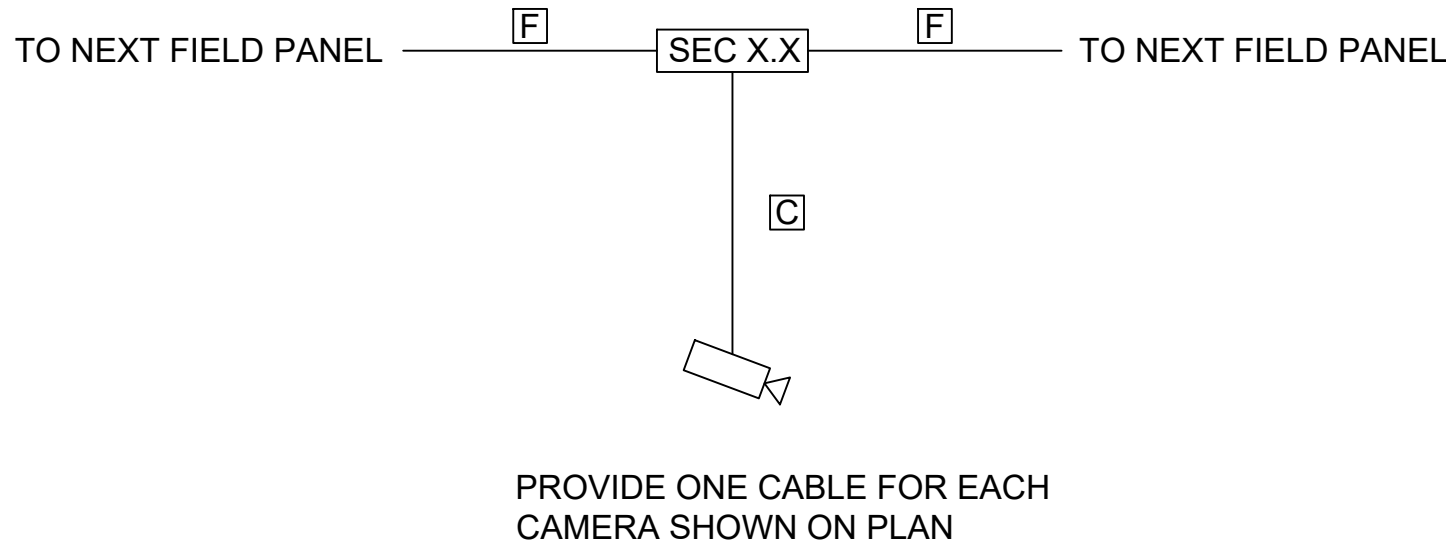
1 TELECOMMUNICATIONS CONDUIT PLACEMENT, DIRECTIONAL BORING
NOT TO SCALE



2 TYPICAL TELECOMMUNICATIONS HANDHOLE DETAIL
NOT TO SCALE

CABLE			DESCRIPTION
ID	QUANTITY	TYPE	
C	1 STRAND	CAT6 STP	OSP, UNSHIELDED, SUPERIOR ESSEX BBD SERIES OR EQUAL
F	4 STRAND	SINGLE-MODE	OUTSIDE PLANT CABLE

NOTES:
1. SEE 'TY' SERIES DRAWINGS FOR SECURITY ONE LINE DIAGRAMS.



3 TYPICAL FIELD PANEL AND CAMERA WIRING DIAGRAM
NOT TO SCALE

no.	date	by	ckd	description
0	02/07/20	CKG	TDH	ISSUE FOR BID

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KANSAS CITY, MO 64114
816-333-9400

date	01/17/20	detailed	A. ALLEN
designed	C. KLOS	checked	L. CANNON

MIAMI BEACH, FL

MIAMI BEACH POLICE SURVEILLANCE
MIDDLE BEACH
TELECOMMUNICATIONS DETAILS

project	120960	contract	
drawing	3-TN501	rev.	A
sheet	of	sheets	
file	3-TN501.dwg		