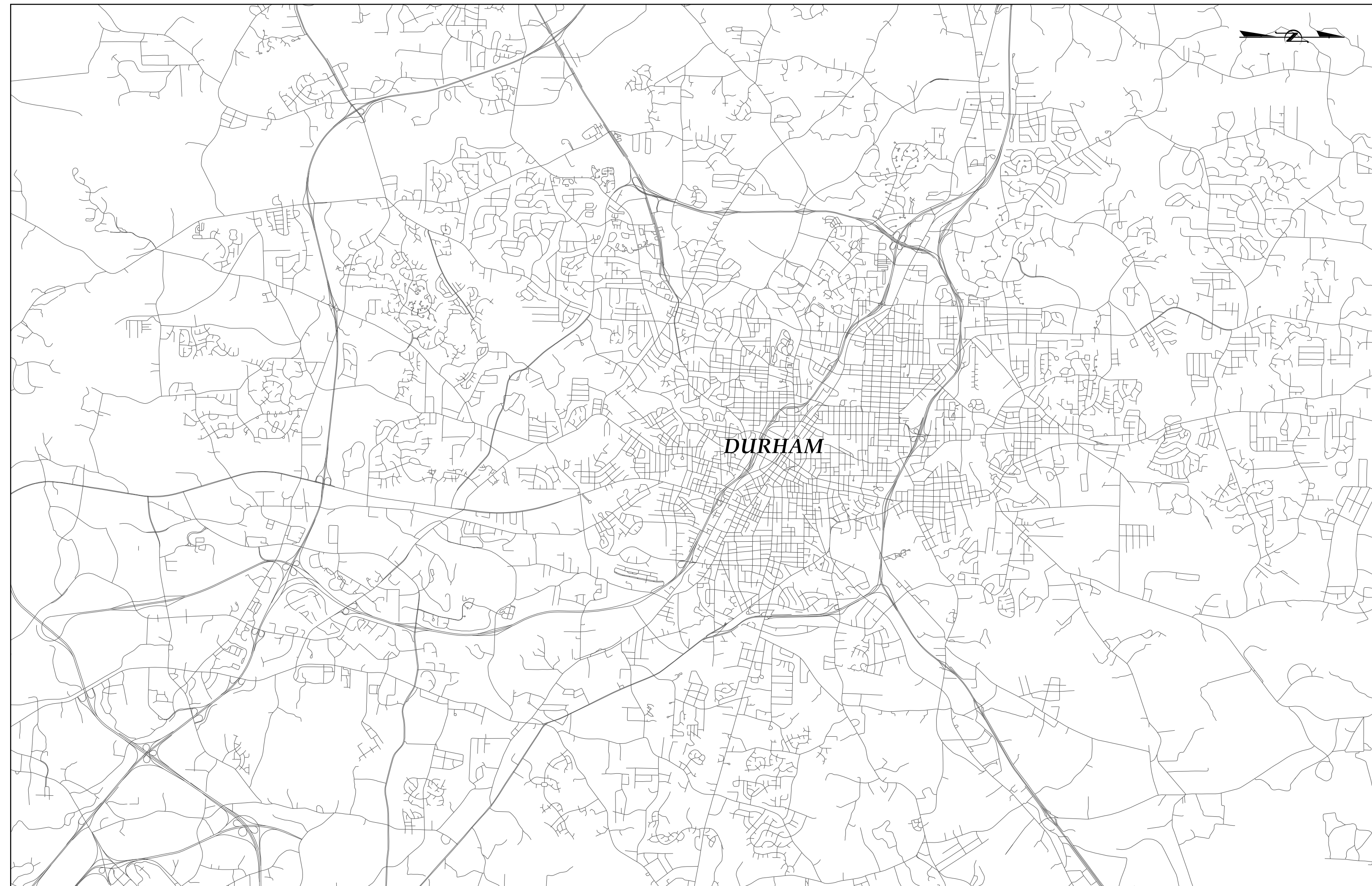


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U - 5968	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
45982.1.1		PE	
45982.3.1		CONST	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED DURHAM COMPUTERIZED TRAFFIC SIGNAL SYSTEM

UPGRADE AND EXPANSION RELATED WORK INCLUDES: UPGRADE OF INTERSECTION CABINETS AND CONTROLLERS; EXPANSION OF CCTV MONITORING NETWORK; INSTALLATION OF AN ETHERNET COMMUNICATIONS NETWORK COMPRISED OF FIBER-OPTIC CABLE AND WIRELESS TECHNOLOGY WITH ALL RELATED EQUIPMENT



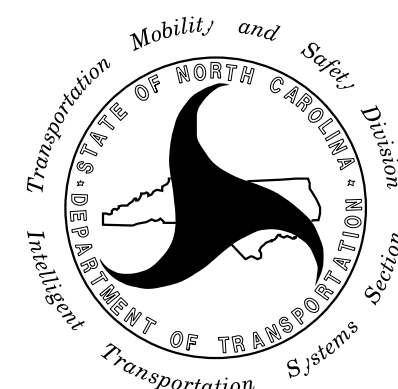
12/14/2018 \$TIME\$ BUSER\$ K:\RAL - IPTD*.ITS\011036410 - Durham Signal System\Plans\011036410 - ITS_psh_1.dgn

CONTRACT: C204211 TIP PROJECT: U-5968

2018 STANDARD SPECIFICATIONS

LETTING DATE: April 16, 2019

PROJECT LENGTH = N/A



750 Greenfield Pkwy., Garner, NC 27529

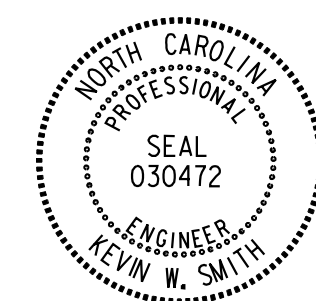
NCDOT CONTACTS:
TRANSPORTATION SAFETY AND MOBILITY
INTELLIGENT TRANSPORTATION SYSTEMS SECTION
MOHD ASLAMI, P.E., C.P.M. - STATE ITS AND SIGNALS MANAGEMENT ENGINEER

PLANS PREPARED BY: **Kimley»Horn**

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P.O. Box 33068
Raleigh, NC 27636
Tel: (919) 677-2000
Fax: (919) 677-2050

KIMLEY-HORN CONTACTS: KEVIN W. SMITH, P.E. - PROJECT MANAGER
KELLY NICHOLAS, P.E. - PROJECT ENGINEER

SEAL



DocuSigned by:
Kevin W. Smith
0098E4B390440E

12/17/2018
DATE

SIGNATURE

INDEX OF SHEETS

VOLUME I

ITS-1.....	TITLE SHEET
ITS-2.....	INDEX OF SHEETS, ROADWAY STANDARD DRAWINGS, AND ABBREVIATIONS
ITS-3.....	CONSTRUCTION NOTES AND LEGEND
ITS-4 - ITS-6.....	PLAN KEY
ITS-7.....	CABINET DETAILS
ITS-8.....	CABINET FOUNDATION DETAILS
ITS-9.....	JUNCTION BOX AND DELINEATOR DETAILS
ITS-10.....	SYSTEM BLOCK DIAGRAM
ITS-11.....	HIGH LEVEL FIBER CABLE CONNECTIVITY
ITS-12.....	NCDOT DIVISION 5 OFFICE DETAIL
ITS-13 - ITS-15.....	CITY HALL BUILDING DETAILS
ITS-16 - ITS-18.....	SIGNAL SHOP BUILDING DETAILS
ITS-19.....	CITY HALL CCTV-2124
ITS-20.....	CCTV CAMERA WOOD POLE TYPICAL DETAIL
ITS-21.....	CCTV CAMERA WOOD SIGNAL SPAN POLE TYPICAL DETAIL
ITS-2.....	CCTV CAMERA METAL STRAIN POLE TYPICAL DETAIL
ITS-23.....	CCTV CAMERA MAST ARM UPRIGHT TYPICAL DETAIL
ITS-24.....	CCTV CAMERA MAST ARM TYPICAL DETAIL
ITS-25 - ITS-60.....	SUMMARY OF WORK BY INTERSECTION
ITS-61 - ITS-66.....	SUMMARY OF WORK BY CCTV

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VOLUME III

CBL-000.....	COMMUNICATIONS CABLE SCHEMATIC PLAN KEY
CBL-001 - CBL-012.....	COMMUNICATIONS CABLE SCHEMATIC
SPL-001 - SPL-407.....	SPLICE DETAILS

VOLUME IV

SIG-1 - SIG-410.....	TRAFFIC SIGNAL PLANS
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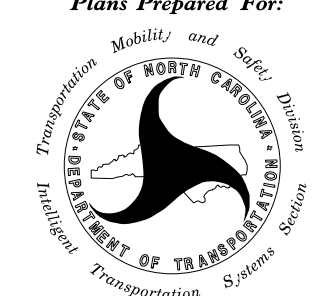
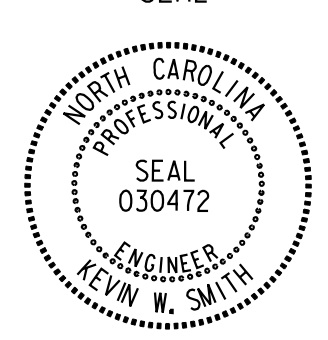
ROADWAY STANDARD DRAWINGS

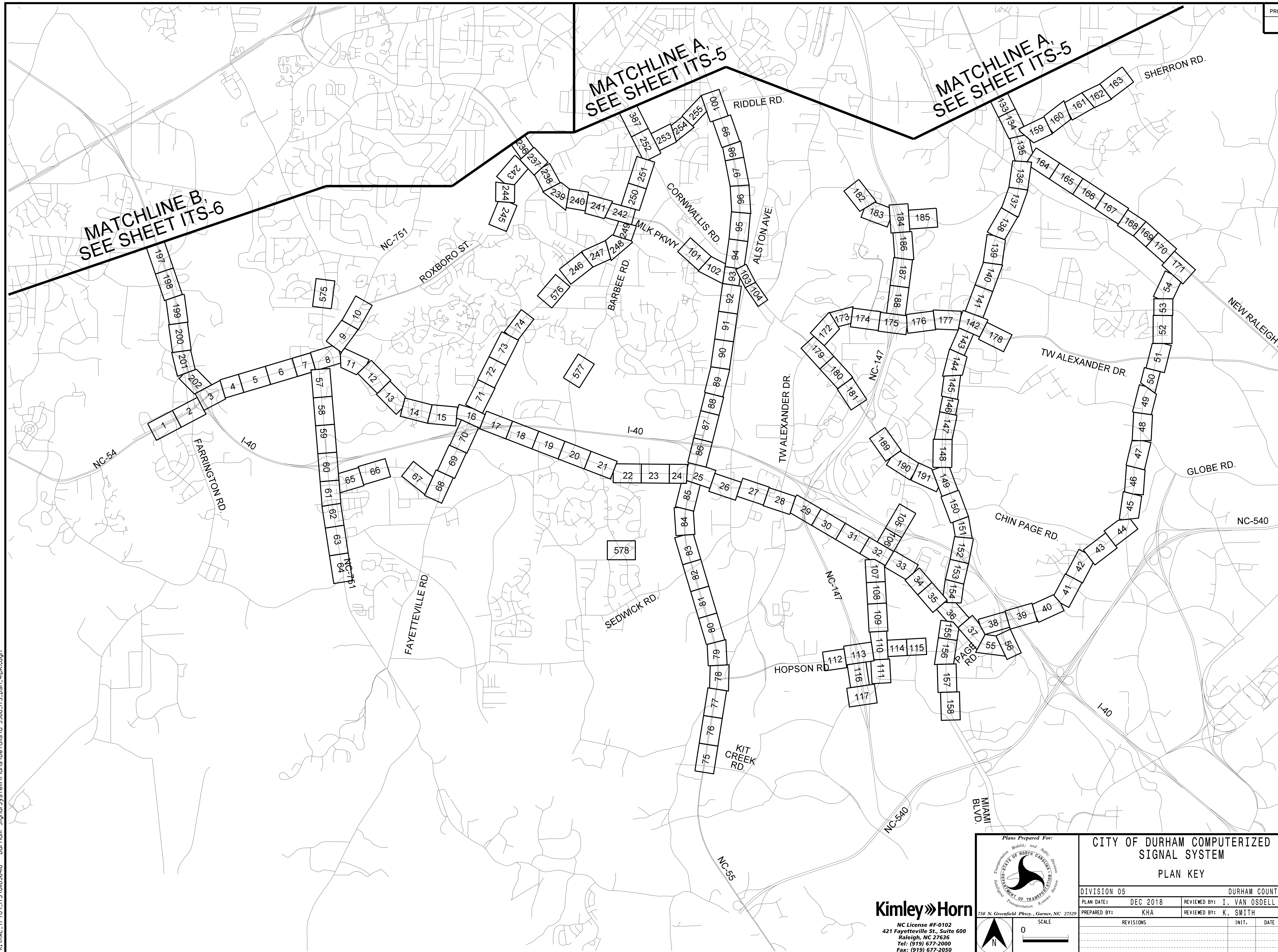
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS"- ROADWAY DESIGN UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2018 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
848.01	CONCRETE SIDEWALK
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1700.01	ELECTRICAL SERVICE OPTIONS
1700.02	ELECTRICAL SERVICE GROUNDING
1705.01	SIGNAL HEADS
1705.02	SIGNAL HEADS
1705.03	SIGNAL HEADS
1715.01	UNDERGROUND CONDUIT
1716.01	JUNCTION BOXES
1720.01	WOOD POLES
1721.01	GUY ASSEMBLIES
1725.01	INDUCTIVE DETECTION LOOPS
1730.01	FIBER OPTIC CABLE
1736.01	SPREAD SPECTRUM RADIO
1751.01	CONTROLLERS AND CABINETS

ABBREVIATIONS

AGUY	= AERIAL GUY	OHG	= OVERHEAD GUY
ATT	= AT&T TELEPHONE	OWS	= OPEN WIRE SECONDARY
BS	= BACK SIDE OF POLE	P GUY	= POWER GUY
BKT	= BRACKET	PWR	= POWER
C.LINK	= CENTURY LINK	RSR	= RISER
CITY	= CITY OF DURHAM	SEC	= SECONDARY POWER
COMM	= COMMUNICATIONS CABLE	SGUY	= SIDEWALK GUY
DPCO	= DUKE ENERGY	SIG	= SIGNAL CABLE
DL	= DRIP LOOP	SLB	= STREET LIGHT BRACKET
NCDOT	= N.C. DEPARTMENT OF TRANSPORTATION	SLDL	= STREET LIGHT DRIP LOOP
(F)	= FRONT SIDE OF POLE	SVC RSR	= SERVICE RISER
FOC	= FIBER OPTIC CABLE	TPX	= TRIPLEX
FRNTR	= FRONTIER	TFMR	= TRANSFORMER
GUY	= GUY ASSEMBLY	TWC	= TIME WARNER CABLE
LLI	= LOOP LEAD IN	VRZN	= VERIZON COMMUNICATIONS
MESS. CABLE	= MESSENGER CABLE	WH	= WEATHERHEAD
NEU	= DUKE ENERGY NEUTRAL	XMESS	= CROSS MESSENGER

 <p style="font-size: 8px;">250 N. Greenfield Place, Garner, NC 27529</p>	CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM INDEX OF SHEETS, ROADWAY STANDARD DRAWINGS, AND ABBREVIATIONS		SEAL 
	DIVISION 05 DURHAM COUNTY		
PLAN DATE: DEC 2018	REVIEWED BY: K. SMITH		
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH		
SCALE 0	REVISIONS	INIT.	DATE
DocuSigned by: Kevin W. Smith			12/21/2018
CADD Filename:			



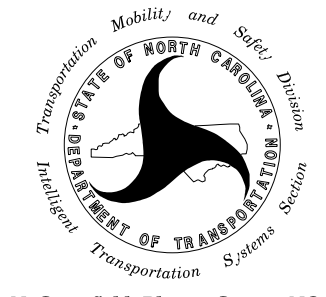
MATCHLINE B,
SEE SHEET ITS-6

MATCHLINE A,
SEE SHEET ITS-5

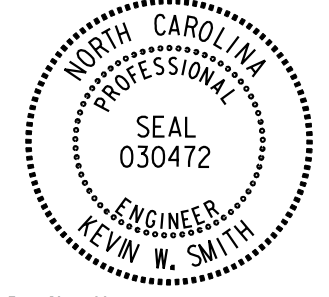
MATCHLINE A,
SEE SHEET ITS-5

12/14/2018 K:\ARL_TPTD_ITS\01036410 - Durham Signal System\Plans\Details\U-5968 ITS.dsh_41pk1.dgn

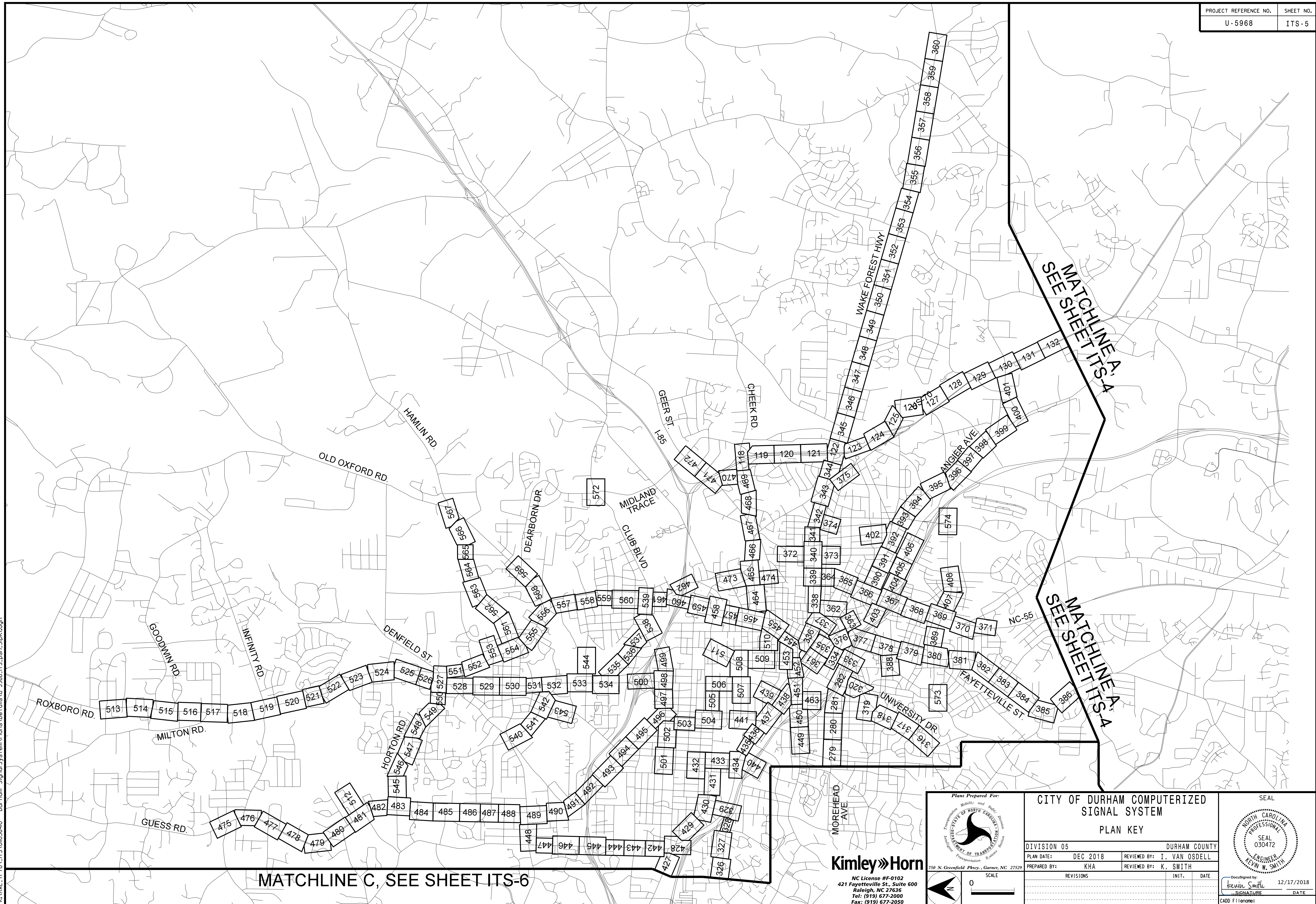
Kimley»Horn
 NC License #F-0102
 421 Fayetteville St., Suite 600
 Raleigh, NC 27636
 Tel: (919) 677-2000
 Fax: (919) 677-2050

Plans Prepared For:

 CITY OF DURHAM
 Department of Transportation
 250 N. Greenfield Place, Garner, NC 27529

CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM	
PLAN KEY	
DIVISION 05	DURHAM COUNTY
PLAN DATE: DEC 2018	REVIEWED BY: I. VAN OSDELL
PREPARED BY: KHA	REVIEWED BY: K. SMITH
REVISIONS	INIT. DATE

SEAL

 KEVIN W. SMITH
 ENGINEER
 STATE OF NORTH CAROLINA
 License No. 030472

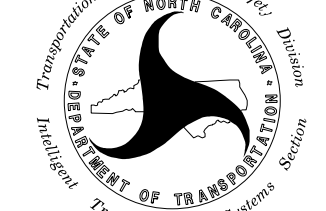
DocuSigned by:
 Kevin W. Smith
 12/17/2018
 DATE
 CADD Filename:




12/14/2018 K:\ARL_TPTD_ITS\0103640 - Durham Signal System\Plans\Details\U-5968 ITS.pst_51pk1.dgn

MATCHLINE C, SEE SHEET ITS-6

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Plans Prepared For:

 STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 Division of Transportation Services

259 N. Greenfield Place, Garner, NC 27529

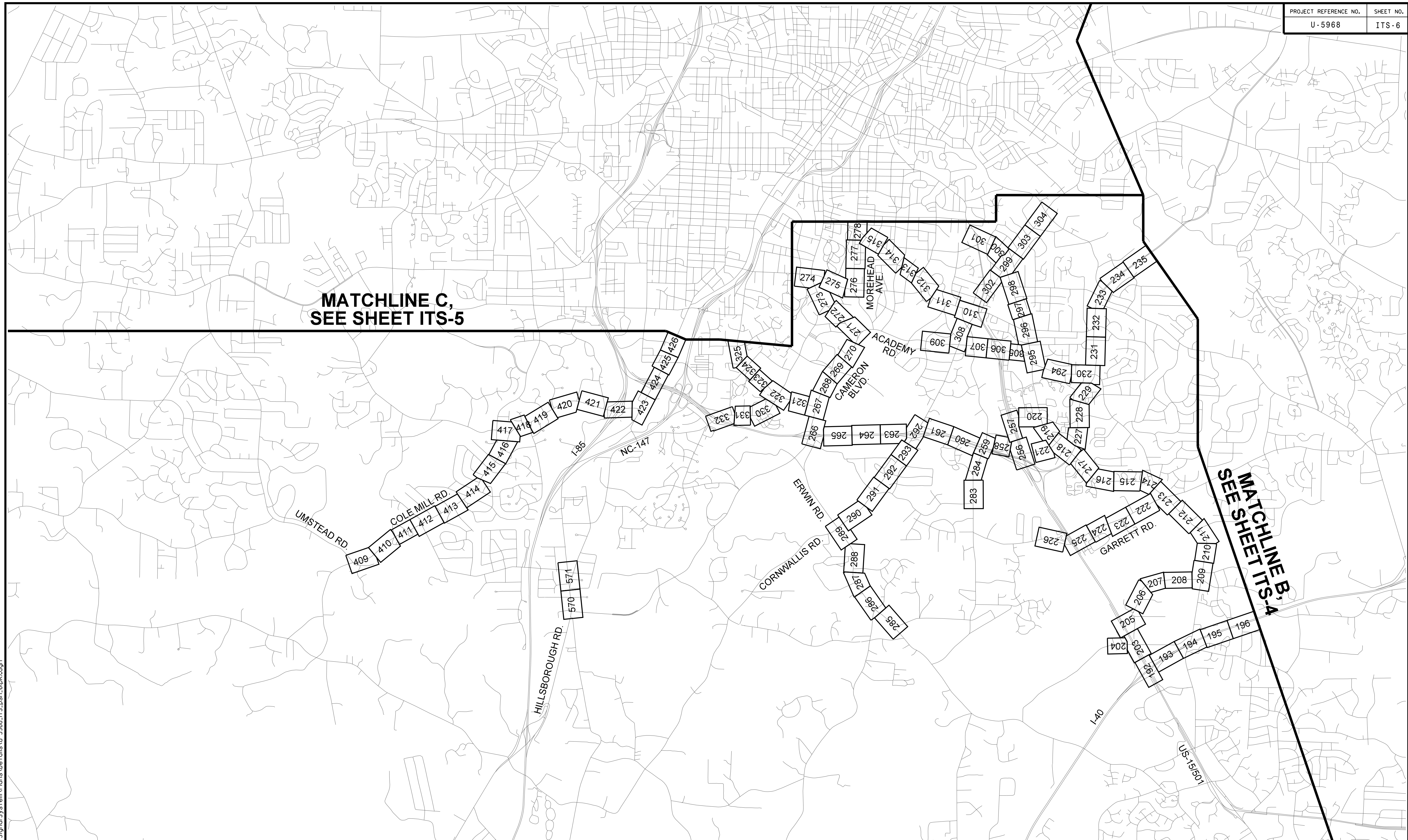
SCALE


CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM	
PLAN KEY	
DIVISION 05	DURHAM COUNTY
PLAN DATE: DEC 2018	REVIEWED BY: I. VAN OSDELL
PREPARED BY: KHA	REVIEWED BY: K. SMITH
REVISIONS	INIT. DATE

SEAL



DocuSigned by:
 Kevin W. Smith
 SIGNATURE DATE 12/17/2018
 CADD Filename:

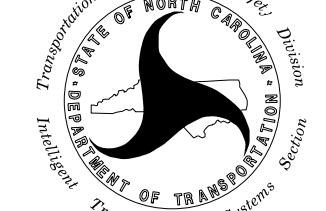


**MATCHLINE C,
SEE SHEET ITS-5**

**MATCHLINE B,
SEE SHEET ITS-4**

12/14/2018 K:\ARL_TPTD_ITS\01036410 - Durham Signal System\Plans\Details\U-5968 ITS.dwg, 6ipk1.dgn

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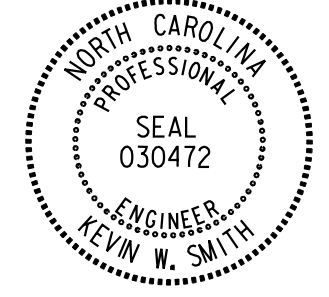
Plans Prepared For:
 Transportation Mobility and Safety Division

 DEPARTMENT OF TRANSPORTATION
 STATE OF NORTH CAROLINA

250 N. Greenfield Place, Garner, NC 27529

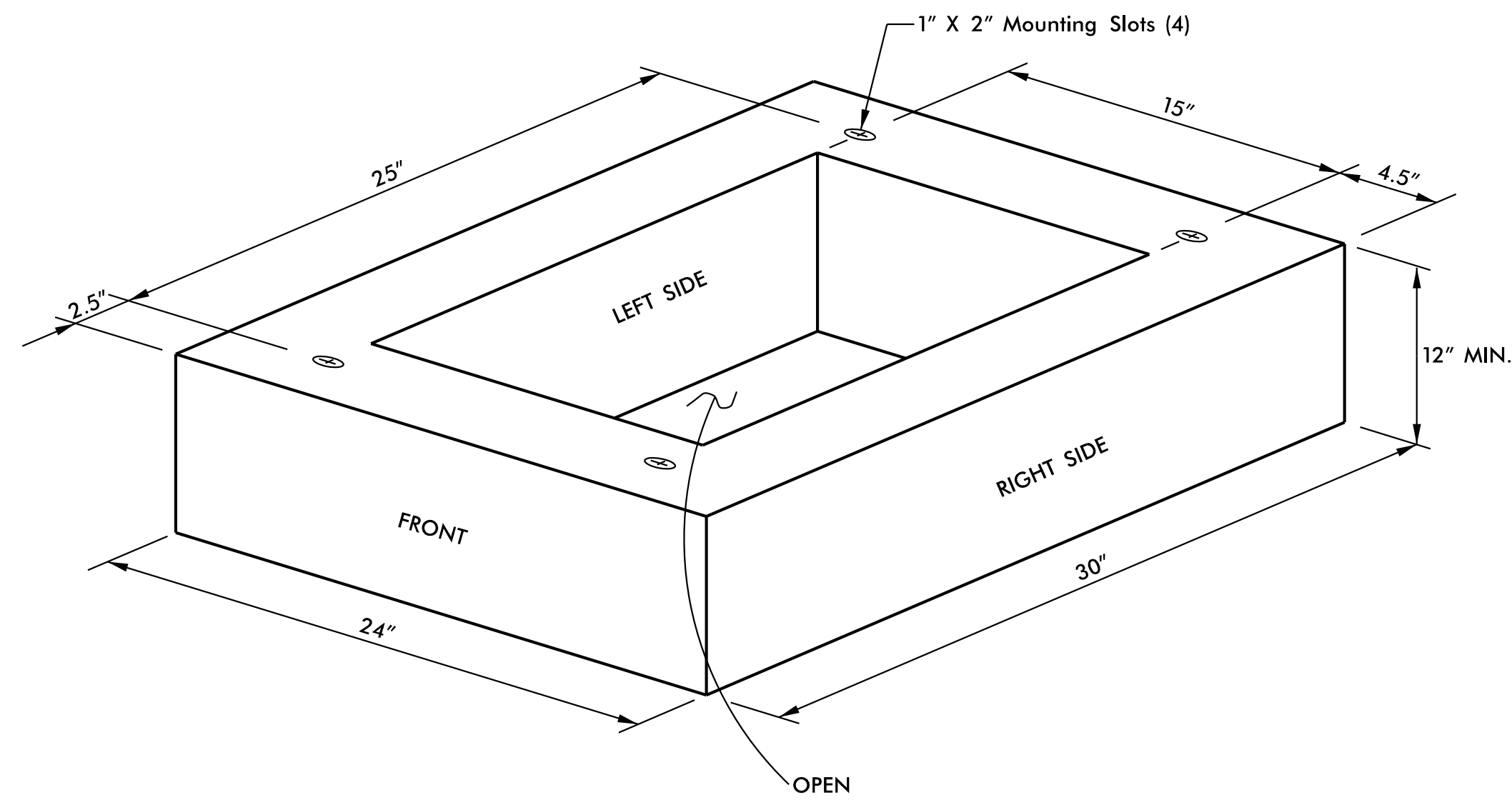
SCALE
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CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM	
PLAN KEY	
DIVISION 05	DURHAM COUNTY
PLAN DATE: DEC 2018	REVIEWED BY: I. VAN OSDELL
PREPARED BY: KHA	REVIEWED BY: K. SMITH
REVISIONS	INIT. DATE

SEAL



DocuSigned by:
 KEVIN W. SMITH
 SIGNATURE
 DATE 12/17/2018
 CADD File name:



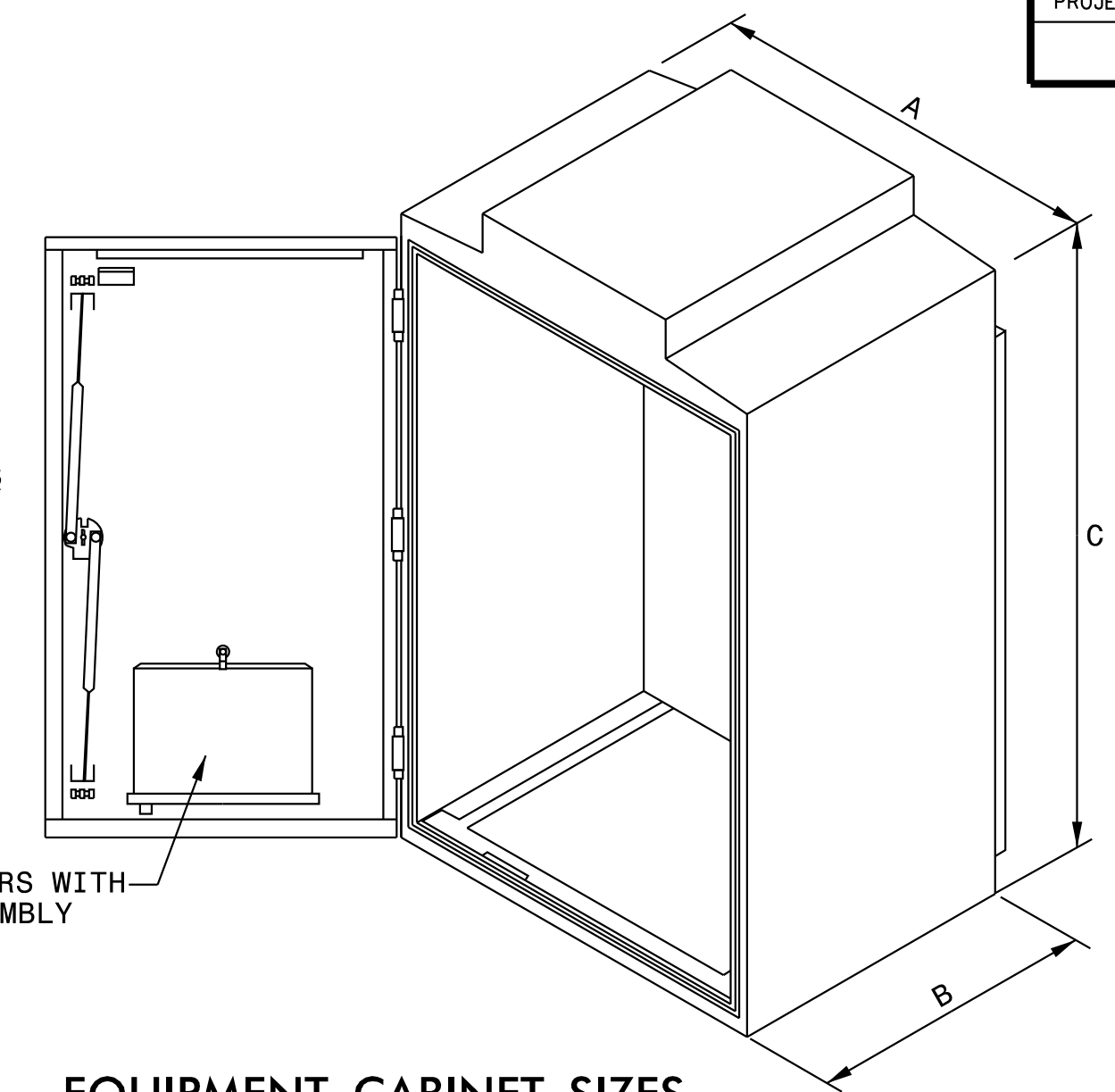
BASE EXTENSION FOR 332 CABINET

NOTES

1. BASE EXTENDER BOLT HOLE PATTERN AND SPACING SHALL MATCH THAT OF EQUIPMENT CABINET.
2. DIMENSIONS SHOWN FOR BASE EXTENDER ARE APPROXIMATE OUTER DIMENSIONS, DIMENSIONS FOR CENTER OPENING AND FLANGE DIMENSIONS SHALL MATCH THOSE OF EQUIPMENT CABINET.
3. FABRICATE BASE EXTENDER FROM SAME MATERIAL AND SAME GAUGE AS EQUIPMENT CABINET. BASE EXTENDER SHALL HAVE FINISH THAT IS IDENTICAL TO EQUIPMENT CABINET.

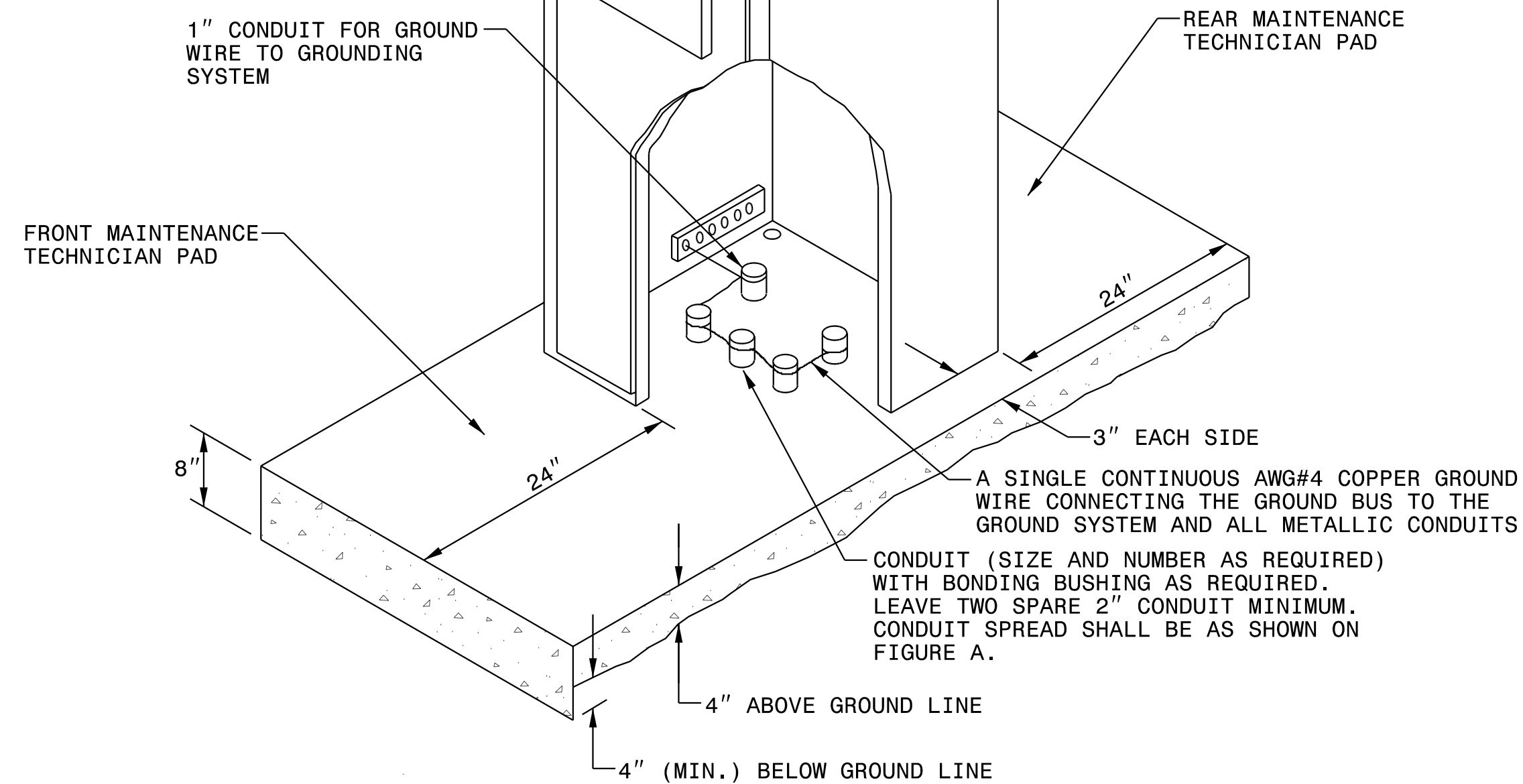
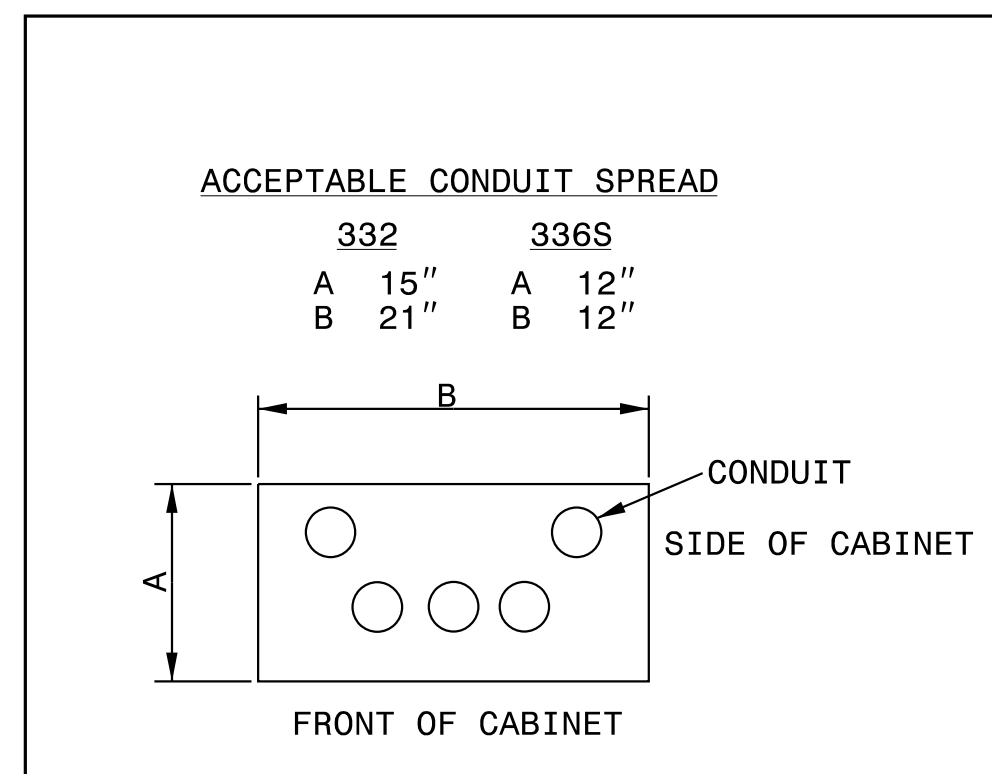
CABINET HOUSING DIMENSIONS

	332	336S
A	24"	24"
B	30"	20"
C	64"	46"



EQUIPMENT CABINET SIZES

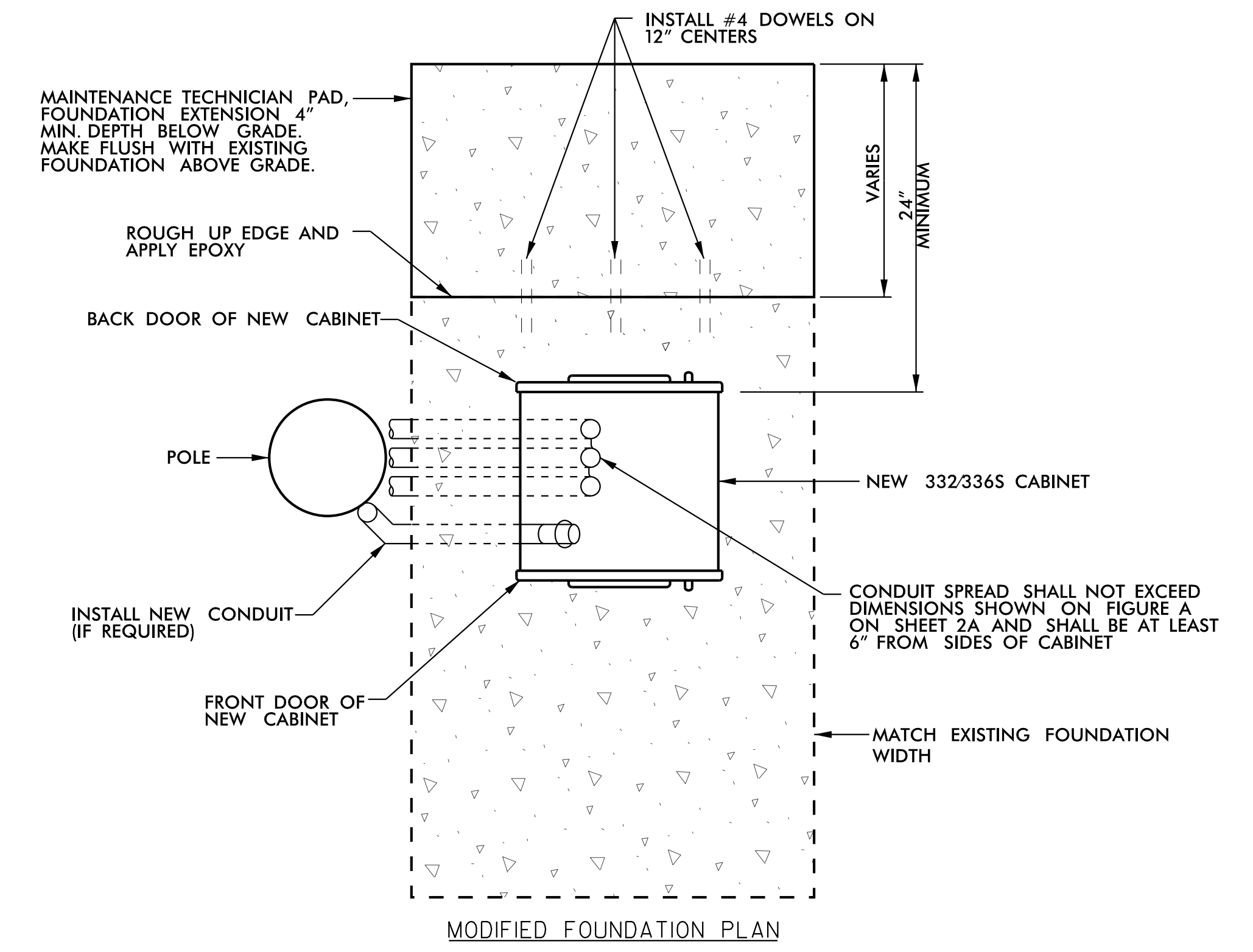
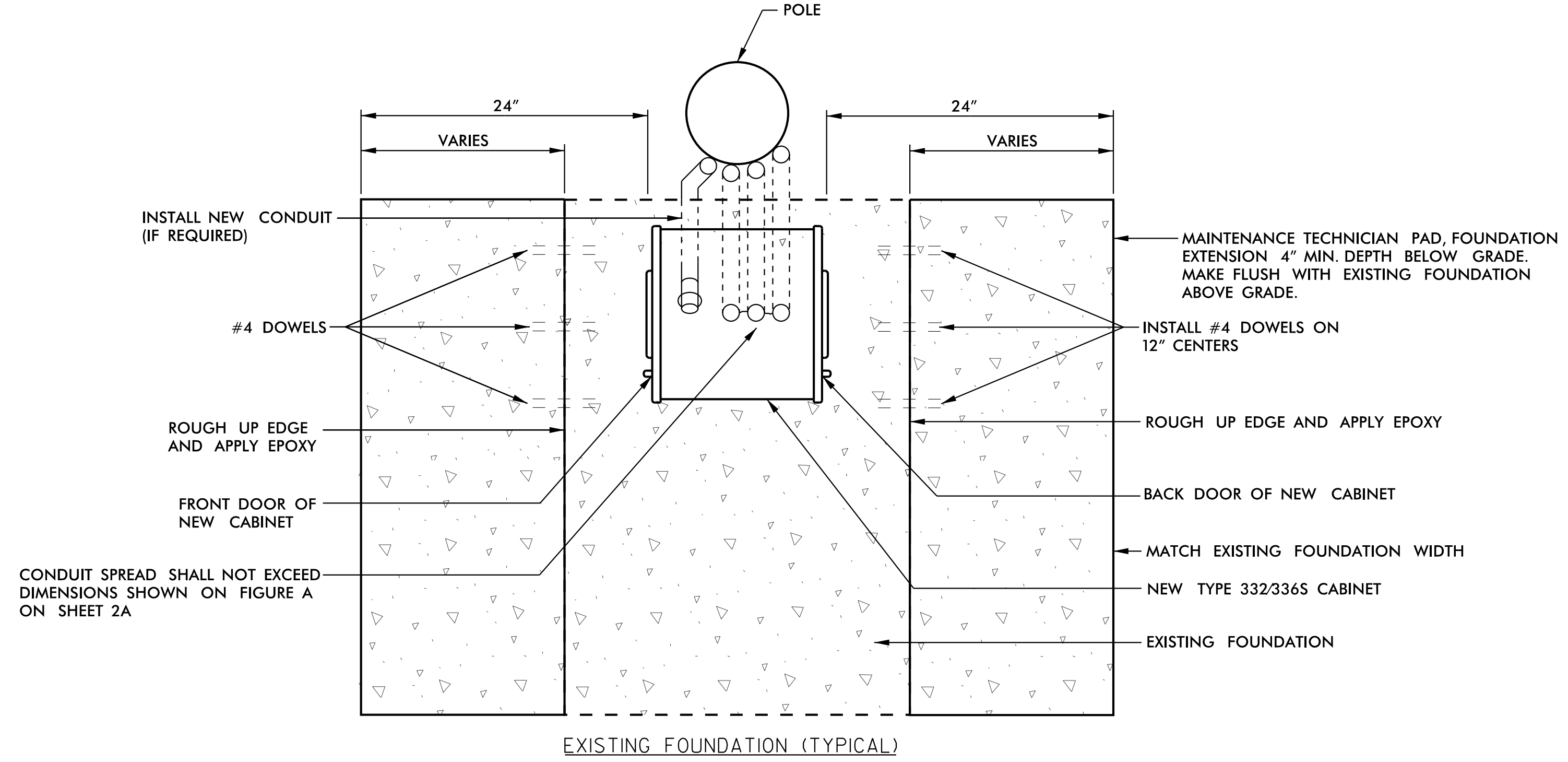
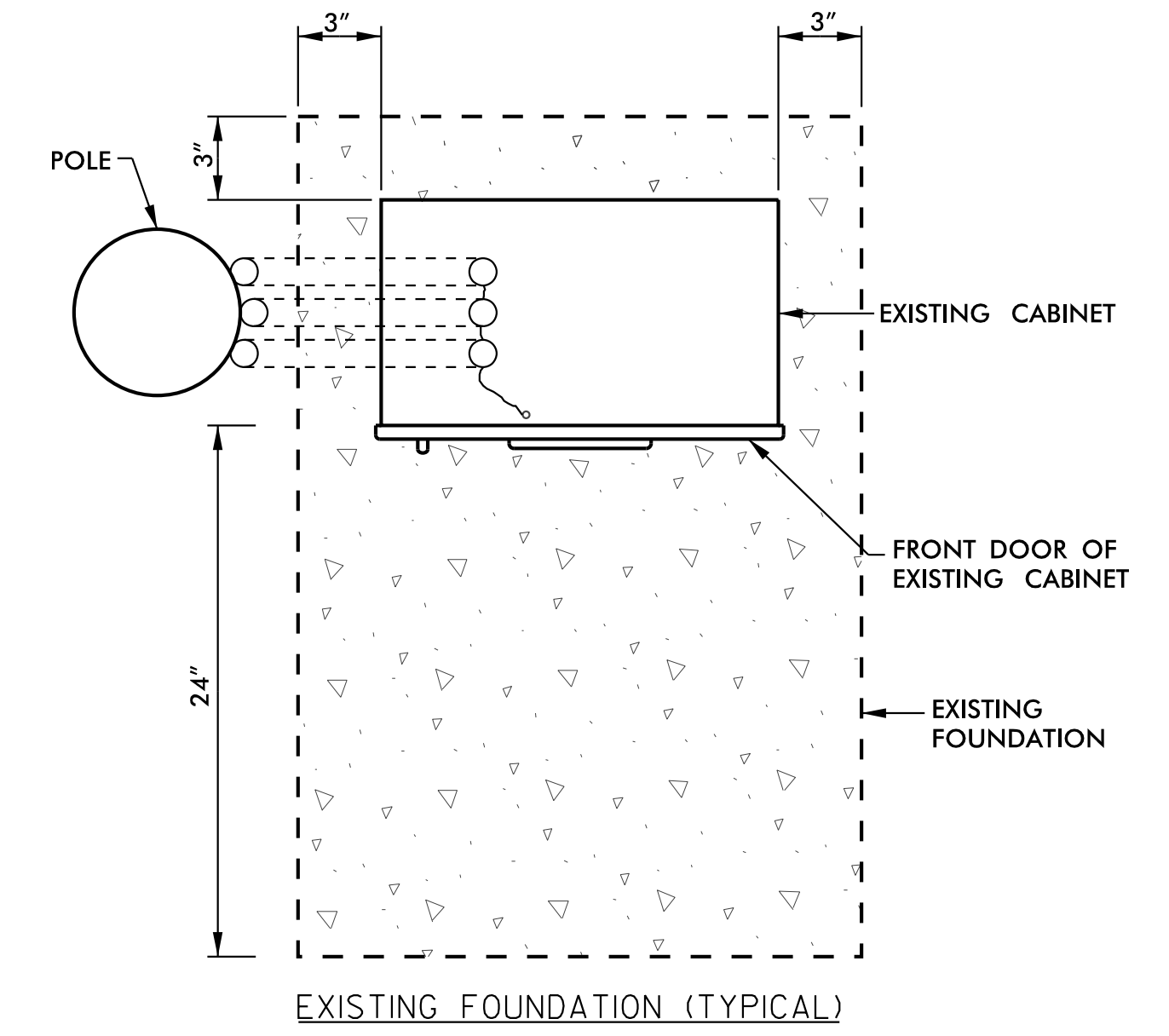
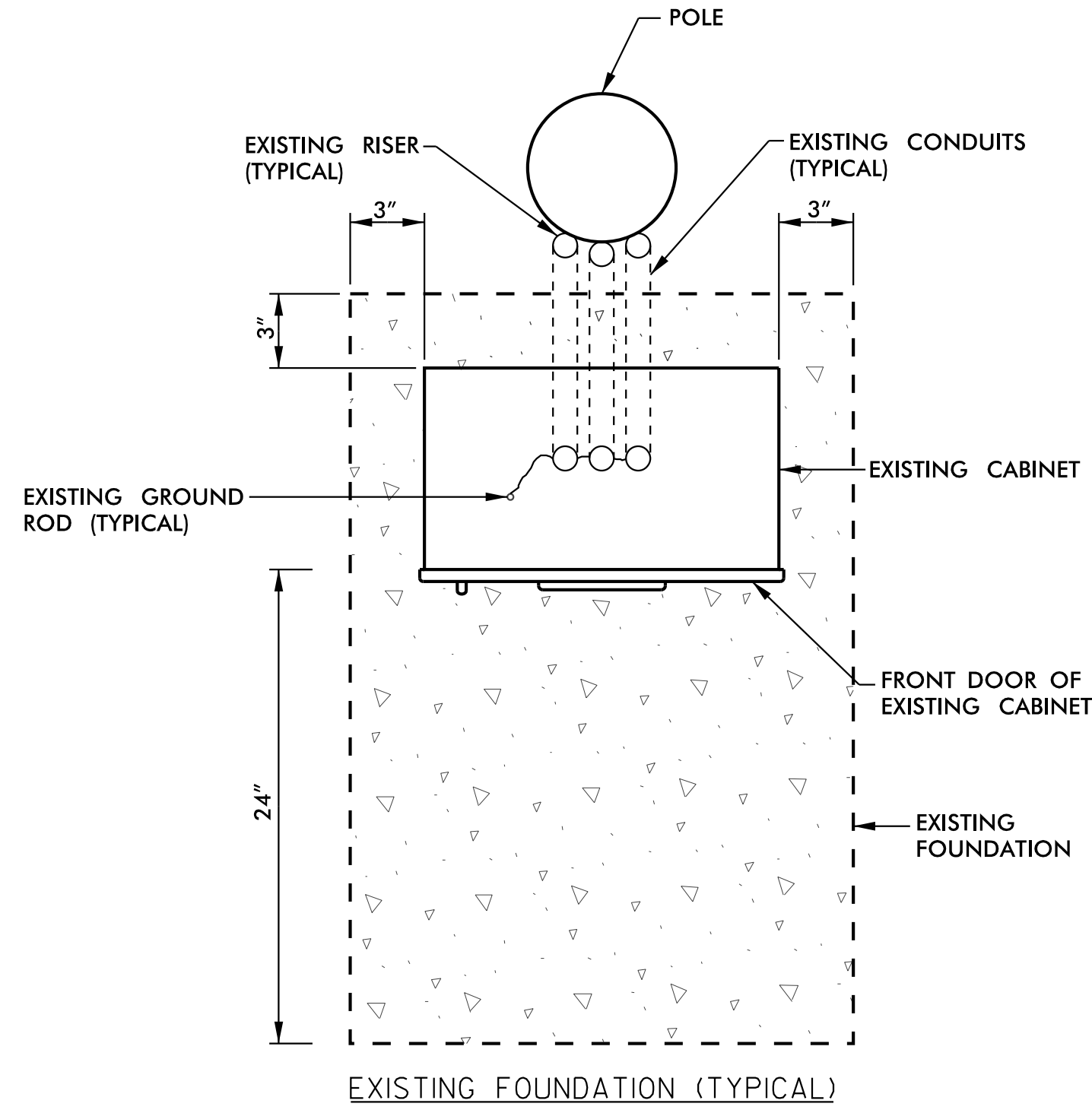
FIGURE A



**TYPICAL BASE MOUNTED CABINET
(NEW STANDARD FOUNDATION)**

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 421 Fayetteville St., Suite 600
 Raleigh, NC 27636
 Tel: (919) 677-2000
 Fax: (919) 677-2050

	CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM CABINET DETAILS		SEAL
	DIVISION 05 DURHAM COUNTY		
PLAN DATE: DEC 2018	REVIEWED BY:		DocuSigned by: 12/17/2018
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH		
REVISIONS	INIT.	DATE	CADD Filename:



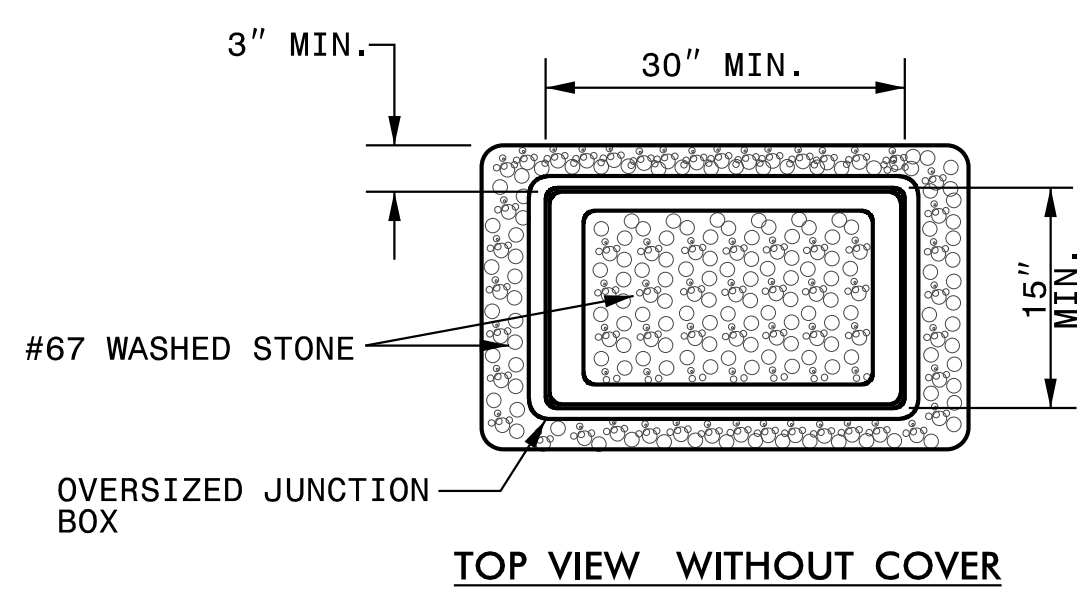
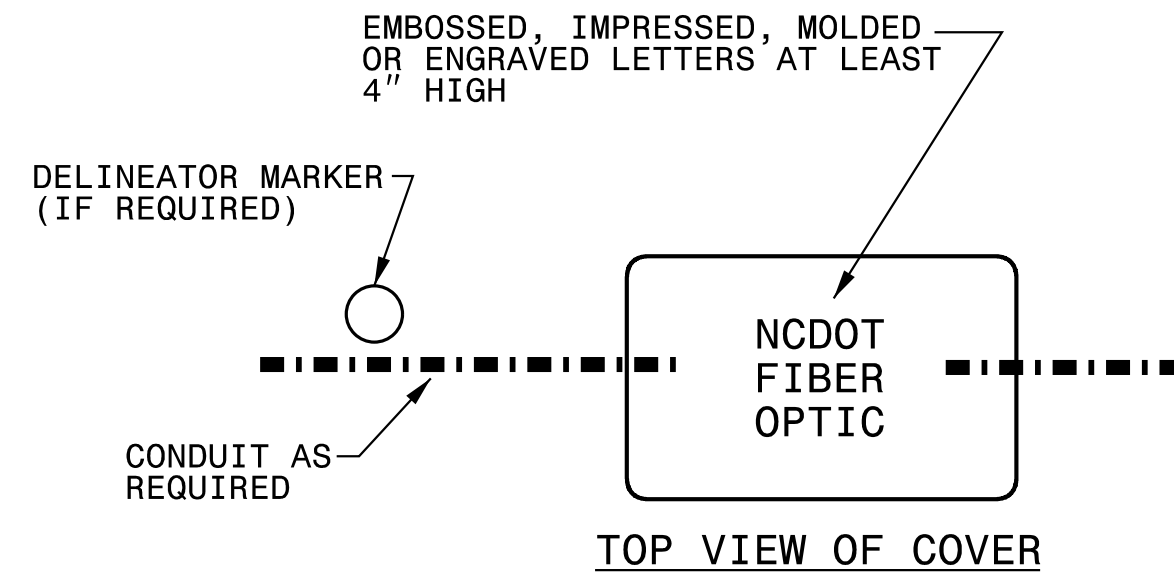
**NEW MODEL 332/336S CABINETS ON MODIFIED FOUNDATION
ROTATED 90 DEGREES FROM ORIENTATION OF EXISTING NEMA CABINET**

**NEW MODEL 332/336S CABINETS ON MODIFIED FOUNDATION
WITH SAME ORIENTATION AS EXISTING NEMA CABINET**

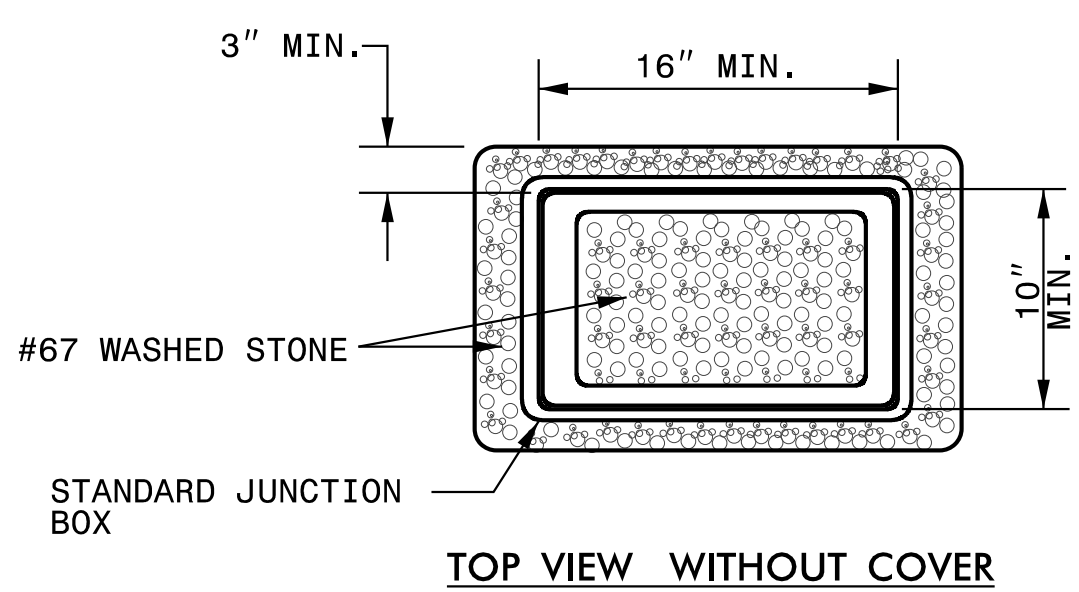
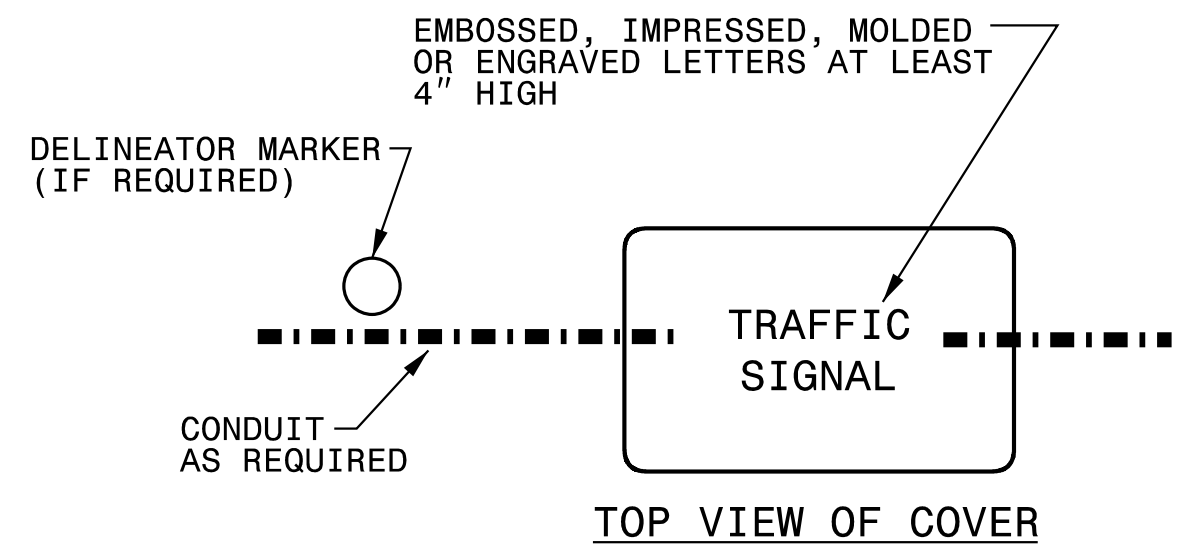
12/14/2018 K:\ARL_TPTD_ITS\01036410 - Durham Signal System\Plans\Details\U-5968_ITS_pst_8.dgn

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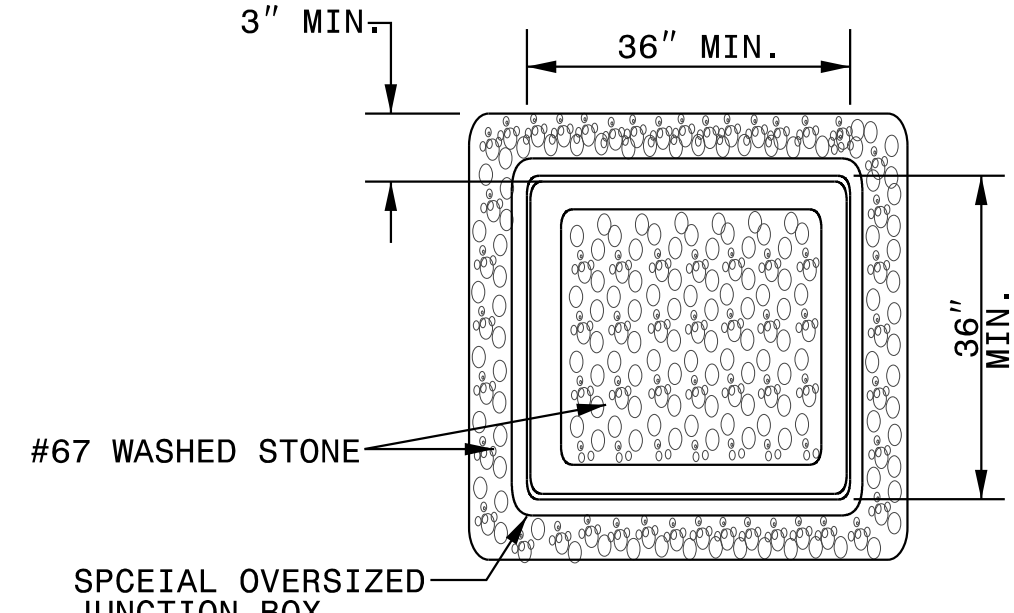
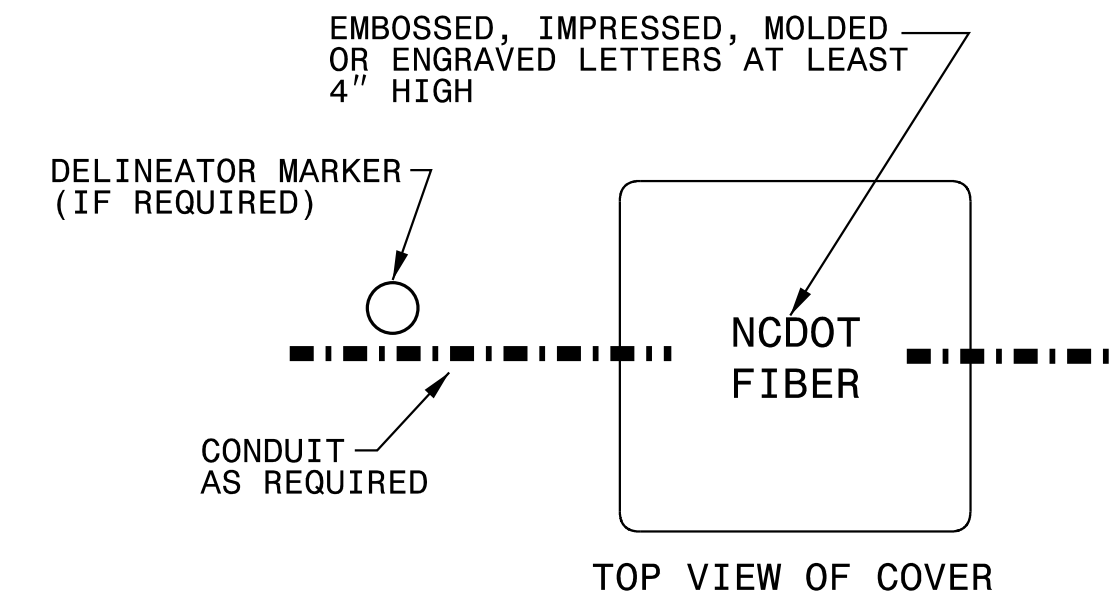
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	DIVISION 05 DURHAM COUNTY		
PLAN DATE: DEC 2018	REVIEWED BY:		12/17/2018
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH		
REVISIONS	INIT.	DATE	CADD Filename:



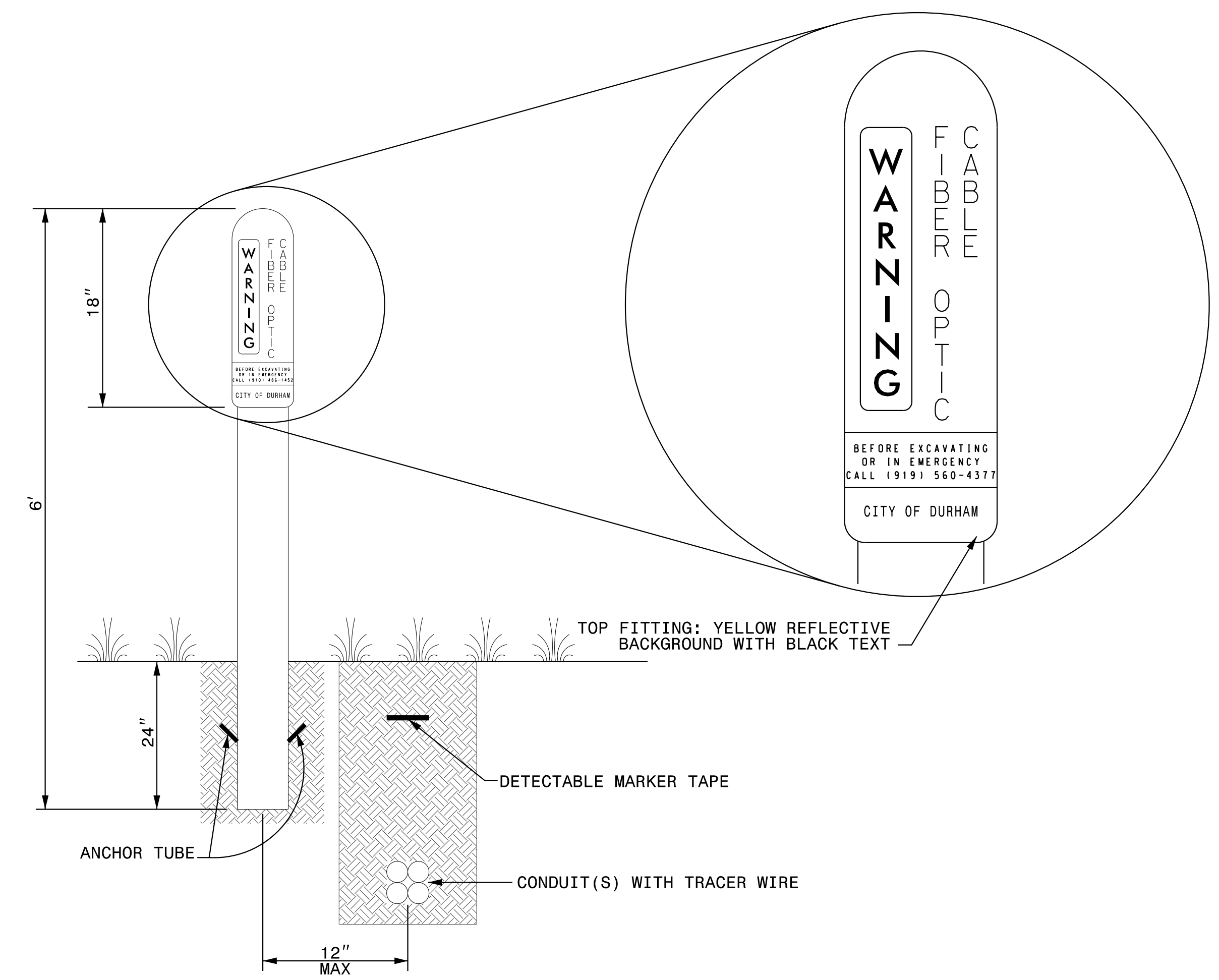
**OVERSIZED HEAVY DUTY JUNCTION BOX
TYPICAL DETAIL**



**STANDARD JUNCTION BOX
TYPICAL DETAIL**



**SPECIAL OVERSIZED JUNCTION BOX
TYPICAL DETAIL**

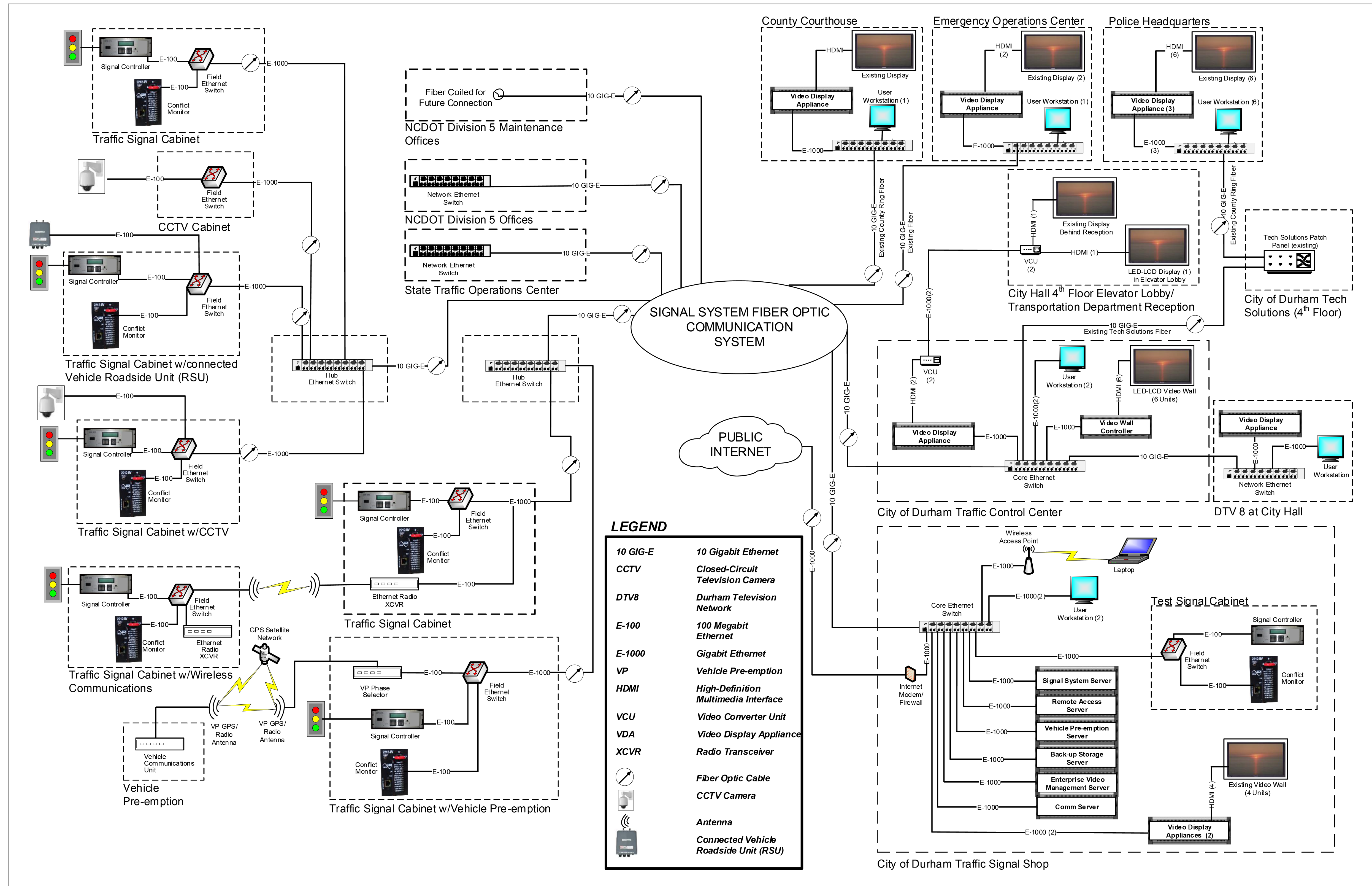


PVC POST-MOUNTED DELINEATOR MARKER
NOTE:
BACKFILL WITH EXCAVATED MATERIAL AND COMPACT THE SOIL TO 95% OF ITS ORIGINAL DENSITY. REMOVE ROCK AND DEBRIS FROM BACKFILL MATERIAL.

12/14/2018 K:\ARL_TPTD_ITS\01036410 - Durham Signal System\Plans\Details\U-5968_ITS_psh_9.dgn

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Fax: (919) 677-2050

	CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM JUNCTION BOX AND DELINEATOR DETAILS		
	DIVISION 05 DURHAM COUNTY		
PLAN DATE: DEC 2018	REVIEWED BY:		SEAL DATE
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH		
REVISIONS	INIT.	DATE	DocuSigned by: Kevin W. Smith DATE: 12/17/2018



LEGEND

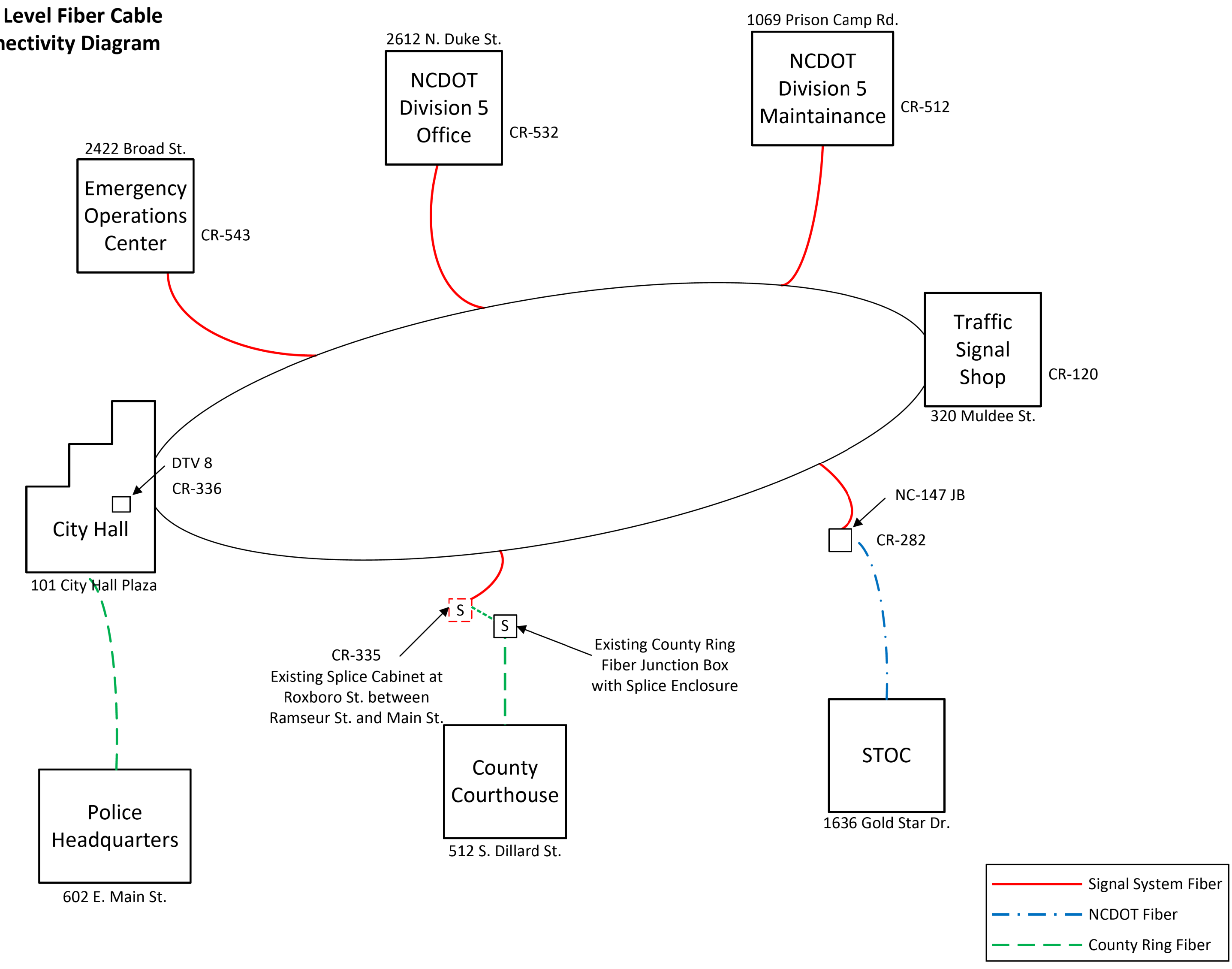
10 GIG-E	10 Gigabit Ethernet
CCTV	Closed-Circuit Television Camera
DTV8	Durham Television Network
E-100	100 Megabit Ethernet
E-1000	Gigabit Ethernet
VP	Vehicle Pre-emption
HDMI	High-Definition Multimedia Interface
VCU	Video Converter Unit
VDA	Video Display Appliance
XCVR	Radio Transceiver
(Line with slash)	Fiber Optic Cable
(Camera icon)	CCTV Camera
(Antenna icon)	Antenna
(Truck icon)	Connected Vehicle Roadside Unit (RSU)

1/7/2019 K:\ARL_TPTD_ITS_01033640 - Durham Signal System\Plans\Details\U-5968_ITS_psh_10\bd.dgn

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	CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM		
	SYSTEM BLOCK DIAGRAM		
DIVISION 05		DURHAM COUNTY	
PLAN DATE: DEC 2018	REVIEWED BY:		
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH		
REVISIONS	INIT.	DATE	
SCALE: 0		DocuSigned by: Kevin W. Smith 1/7/2019	
CADD File name:		DATE	

High Level Fiber Cable Connectivity Diagram



HIGH LEVEL FIBER CABLE CONNECTIVITY

	Signal System Fiber
	NCDOT Fiber
	County Ring Fiber

1/7/2019 KARAL_TPTD_ITS_0103640 - Durham Signal System\Plans\Details\U-5968_ITS_psh.dgn

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	CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM HIGH LEVEL FIBER CABLE CONNECTIVITY		
	DIVISION 05 DURHAM COUNTY		
PLAN DATE: DEC 2018	REVIEWED BY: K. SMITH		Documented by: 1/7/2019 Signature: Date: _____ CADD Filename: _____
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH		
REVISIONS	INIT.	DATE	

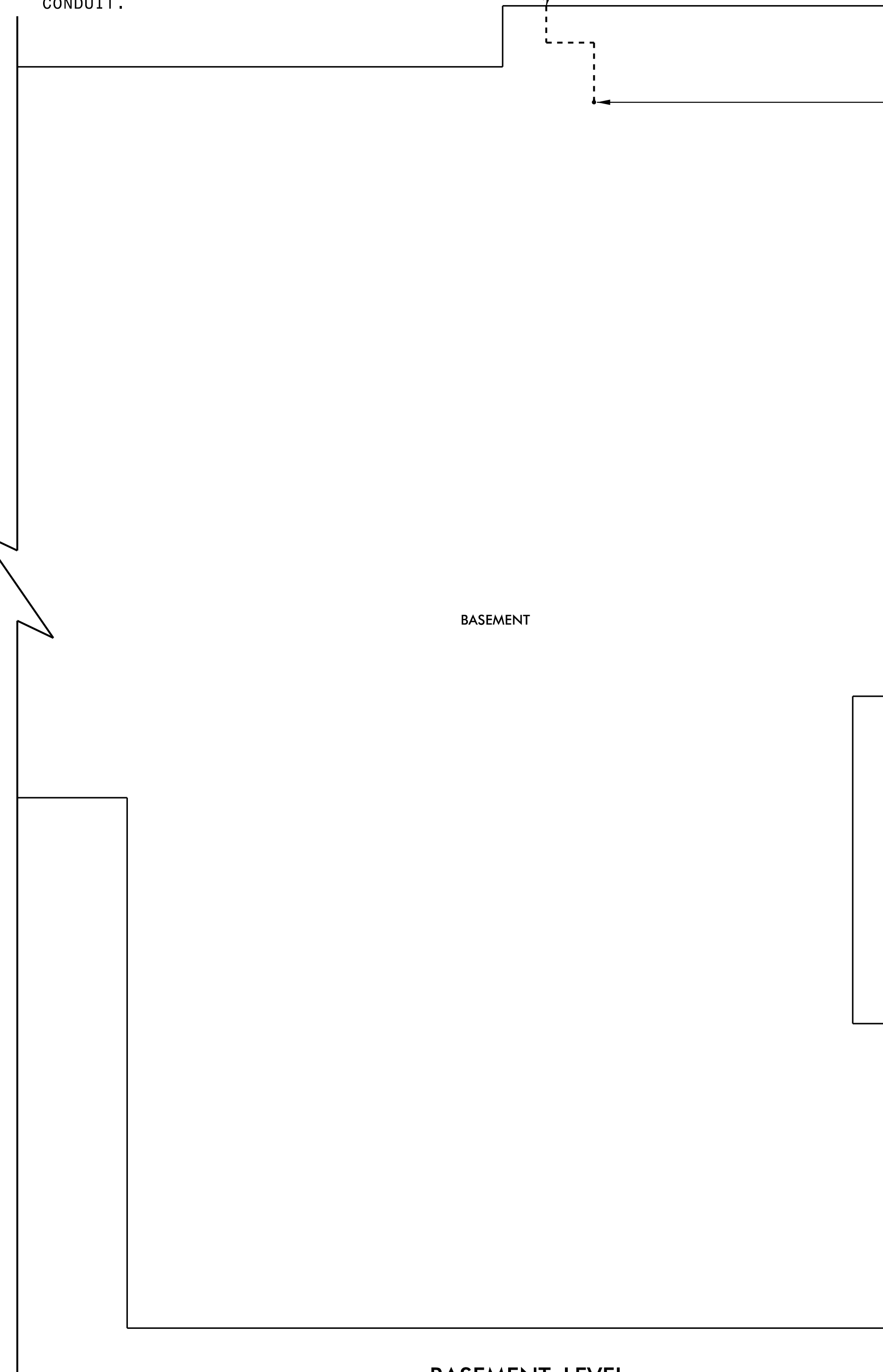
INSTALL NEW SWITCH AND PATCH PANEL IN EXISTING EQUIPMENT RACK. COORDINATE WITH DIVISION ENGINEER FOR LOCATION IN RACK. TERMINATE FIBER IN NEW PATCH PANEL.

INSTALL NEW RISER ON POLE AND NEW JUNCTION BOX. INTEGRATE WITH EXISTING CONDUIT.

ROUTE NEW SMFO CABLE IN EXISTING CONDUIT FROM NEW JUNCTION BOX INTO BUILDING BASEMENT LEVEL.

ROUTE NEW SMFO CABLE UP THROUGH FLOOR IN EXISTING CONDUIT

ROUTE NEW SMFO CABLE THROUGH BASEMENT CEILING UP THROUGH MAINTENANCE ROOM FLOOR IN EXISTING CONDUIT.

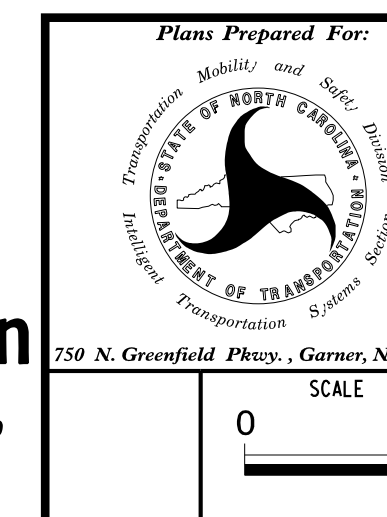


MAIN LEVEL

BASEMENT LEVEL

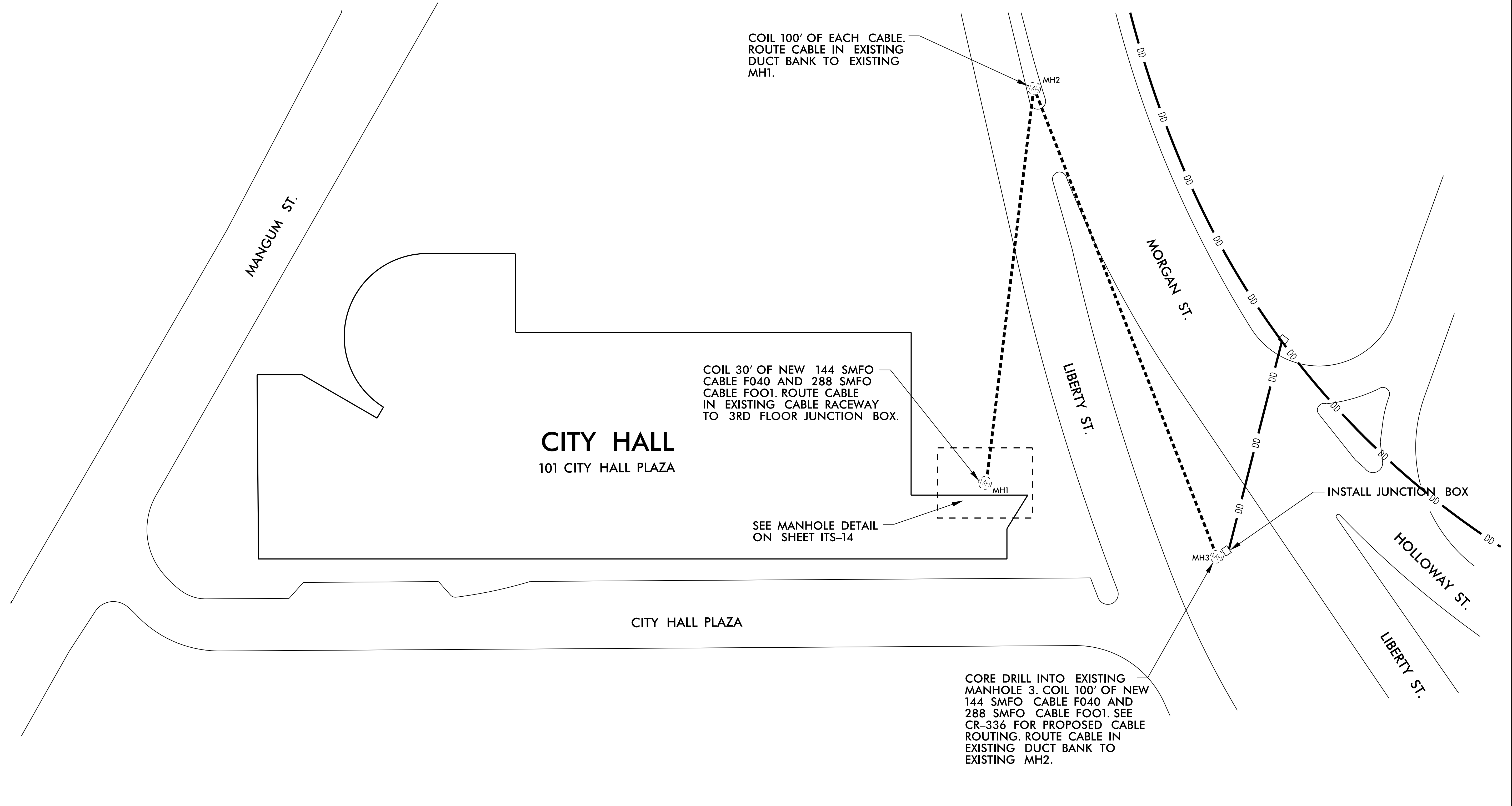
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CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM	
NCDOT DIVISION 5 OFFICE DETAIL	
DIVISION 05	DURHAM COUNTY
PLAN DATE: DEC 2018	REVIEWED BY:
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH
REVISIONS	INIT. DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 KEVIN W. SMITH
 SEAL 030472
 DocuSigned by: KEVIN W. SMITH
 12/17/2018
 SIGNATURE DATE
 CADD Filename:

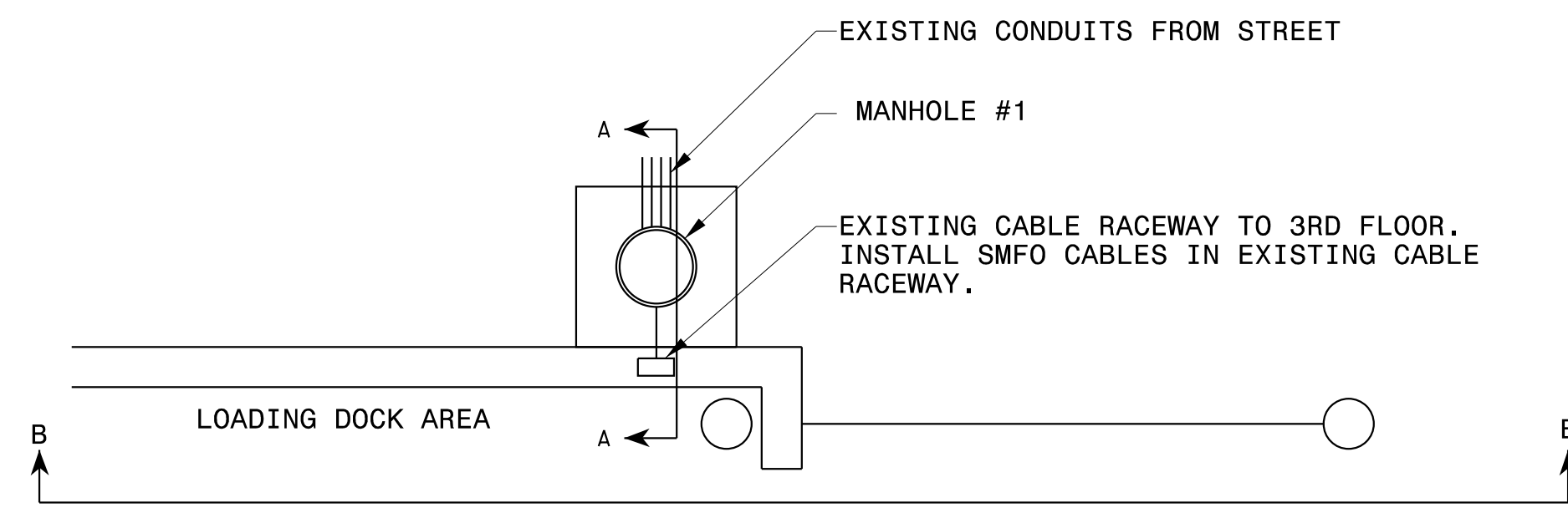


NOTE:
 CONTRACTOR SHALL INVESTIGATE EXISTING CONDUIT ROUTING. COORDINATE WITH ENGINEER FOR INFORMATION ON ANY UNUSED FIBER THAT MAY BE REMOVED. INSTALL CABLE PULL LINE AND ROUTE NEW CABLES IN EXISTING CONDUIT RACEWAYS PER SPECIFICATION

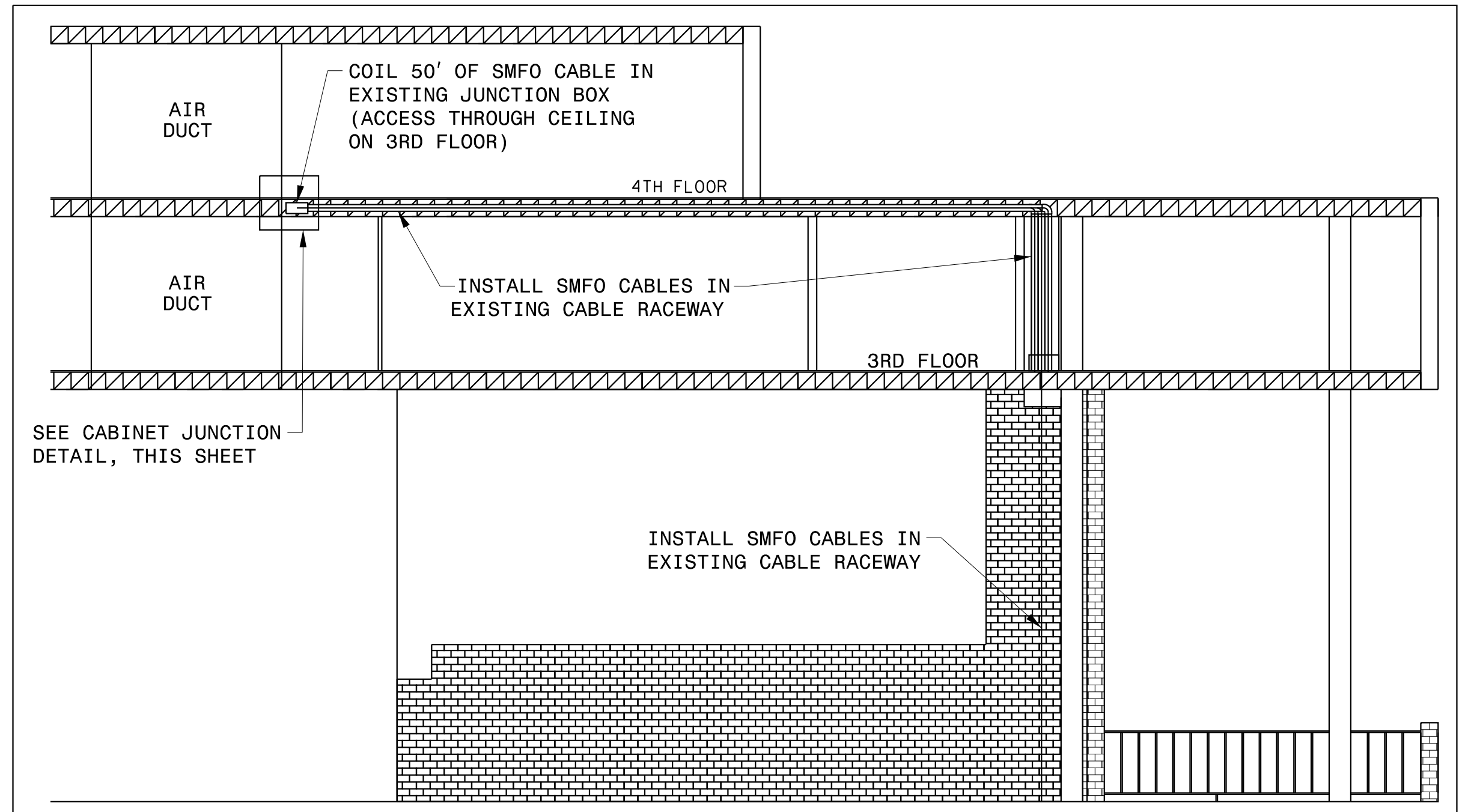
12/14/2018 K:\ARL_TPTD_ITS\0103640 - Durham Signal System\Plans\Details\U-5968_ITS_psh_13.cml.dgn

Kimley»Horn
 NC License #F-0102
 421 Fayetteville St., Suite 600
 Raleigh, NC 27636
 Tel: (919) 677-2000
 Fax: (919) 677-2050

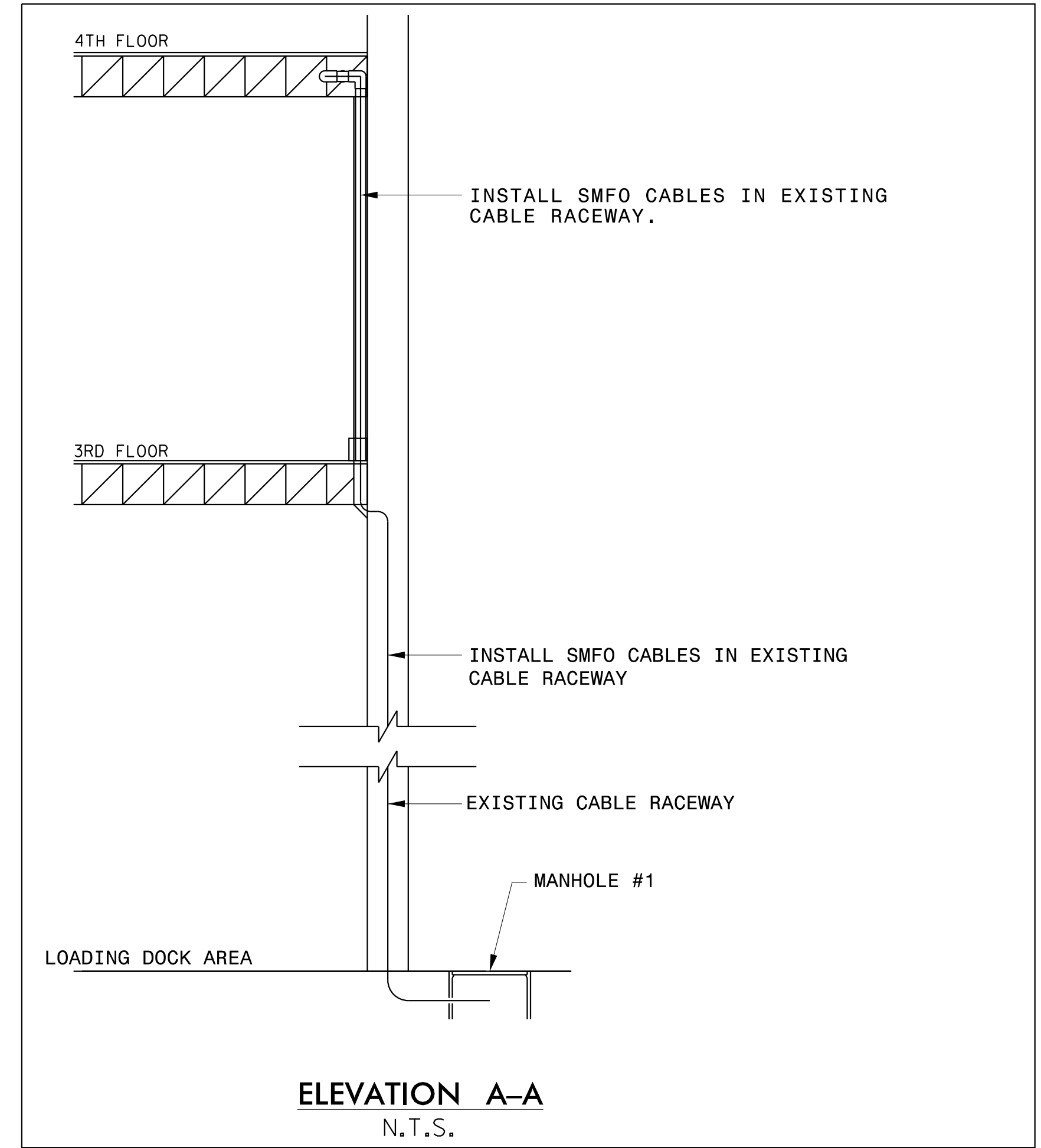
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	DIVISION 05 DURHAM COUNTY		
PLAN DATE: DEC 2018	REVIEWED BY:		Documented by: <i>Kevin W. Smith</i> 12/17/2018 SEAL DATE
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH		
REVISIONS	INIT.	DATE	CADD Filename:



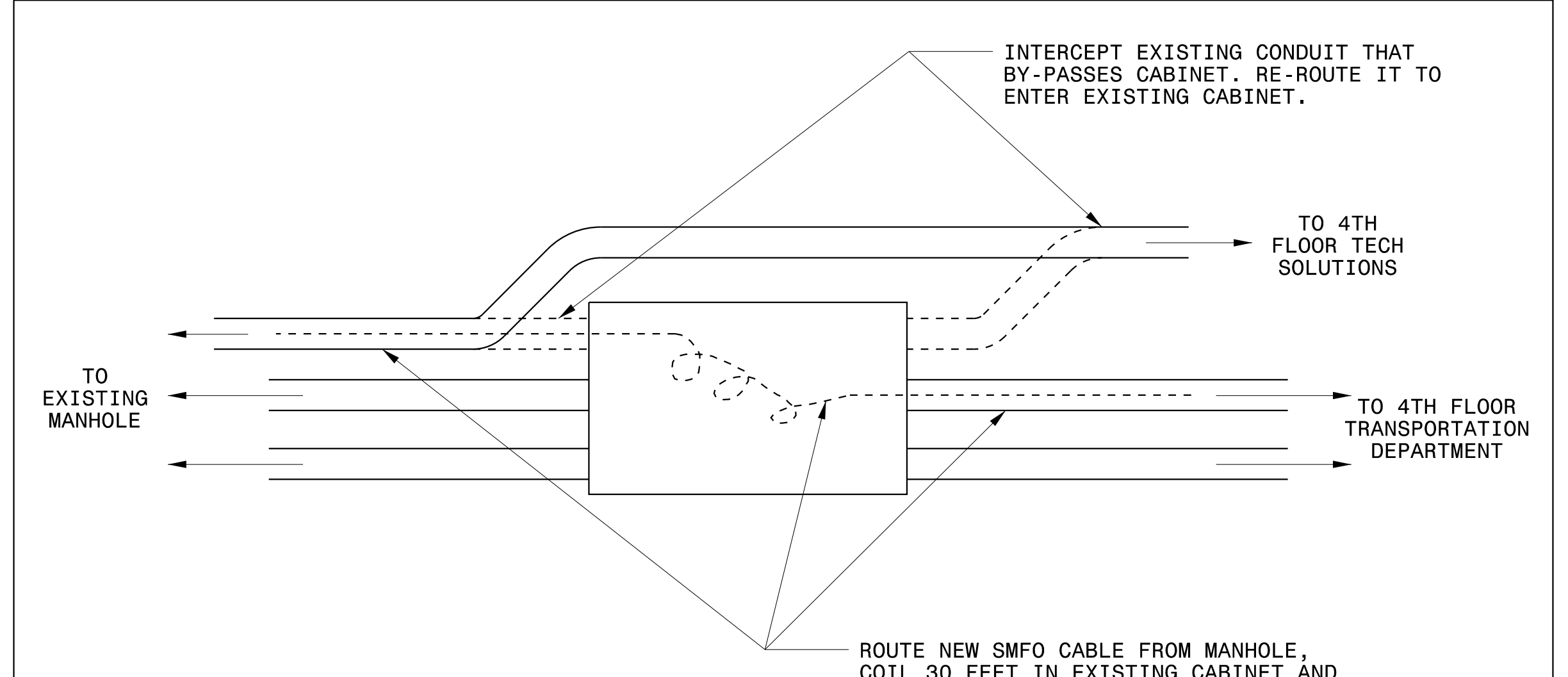
MANHOLE #1 DETAIL
N.T.S.



ELEVATION B-B
N.T.S.



ELEVATION A-A
N.T.S.



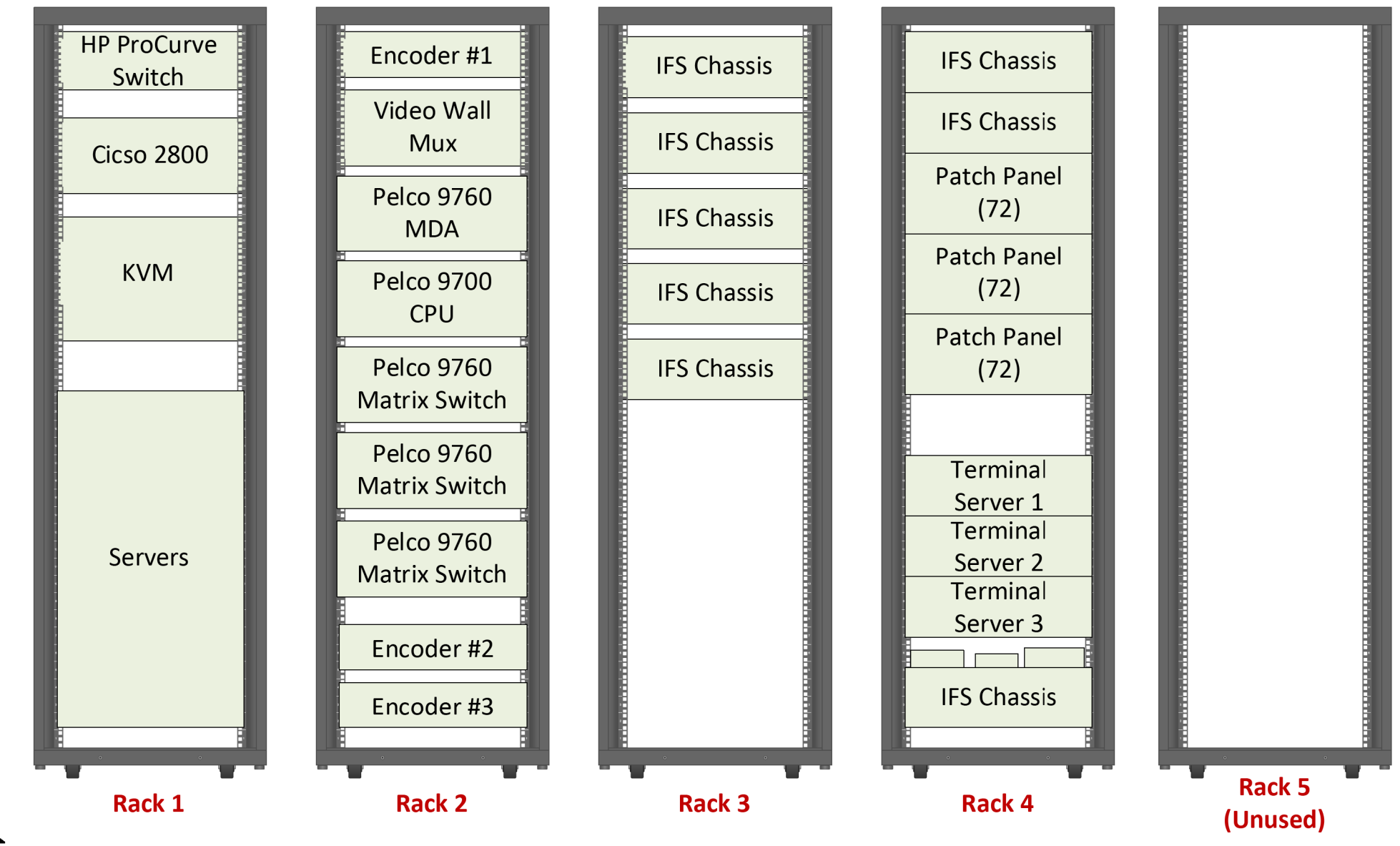
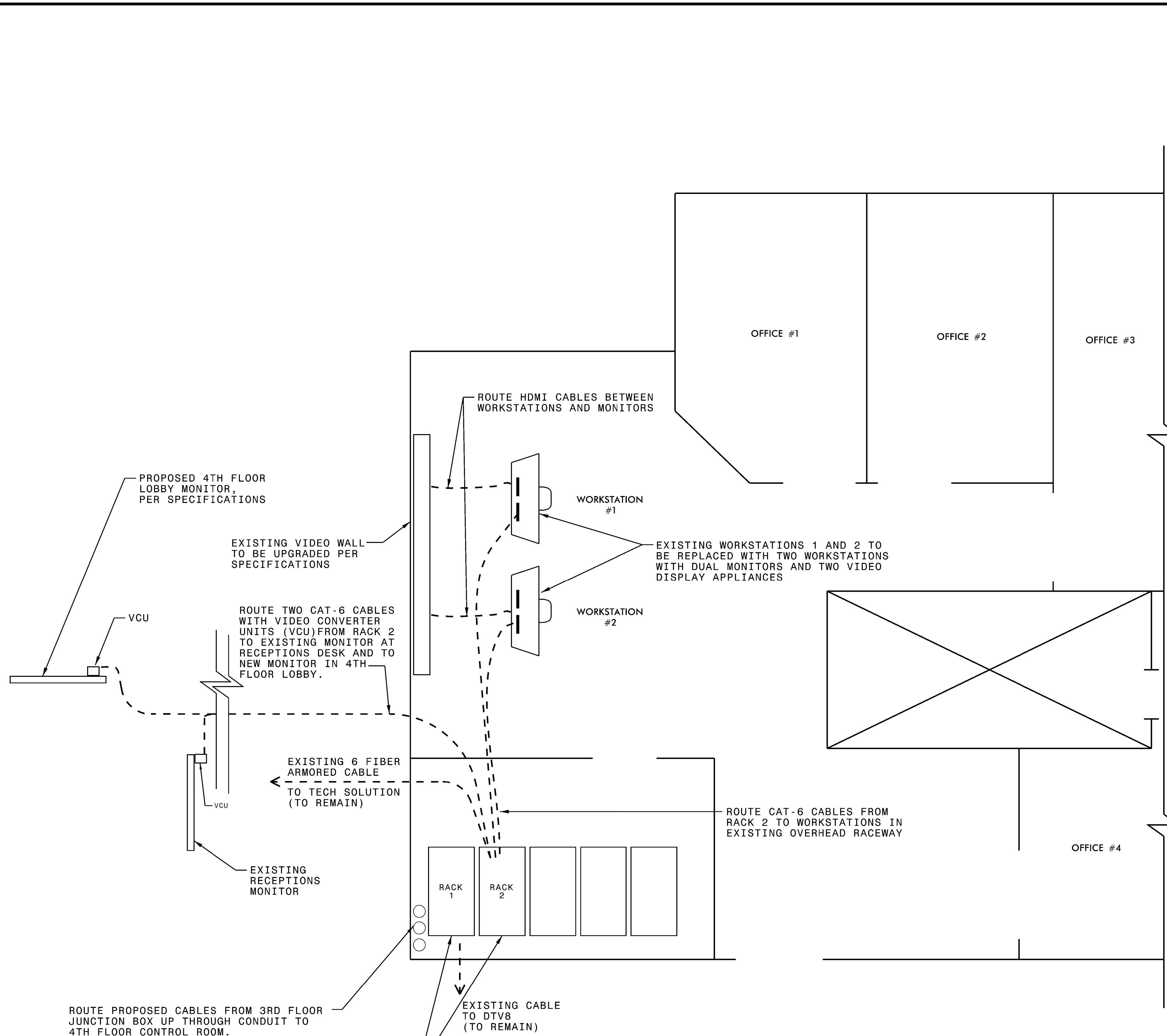
EXISTING CABINET JUNCTION
(ABOVE CEILING PANELS ON 3rd FLOOR)
N.T.S.

NOTE:
CONTRACTOR SHALL INVESTIGATE EXISTING CONDUIT ROUTING. COORDINATE WITH ENGINEER FOR INFORMATION ON ANY UNUSED FIBER THAT MAY BE REMOVED AND/OR USED TO PULL NEW CABLES IN. INSTALL CABLE PULL LINE AND ROUTE NEW CABLES IN EXISTING CONDUIT RACEWAYS PER SPECIFICATIONS.

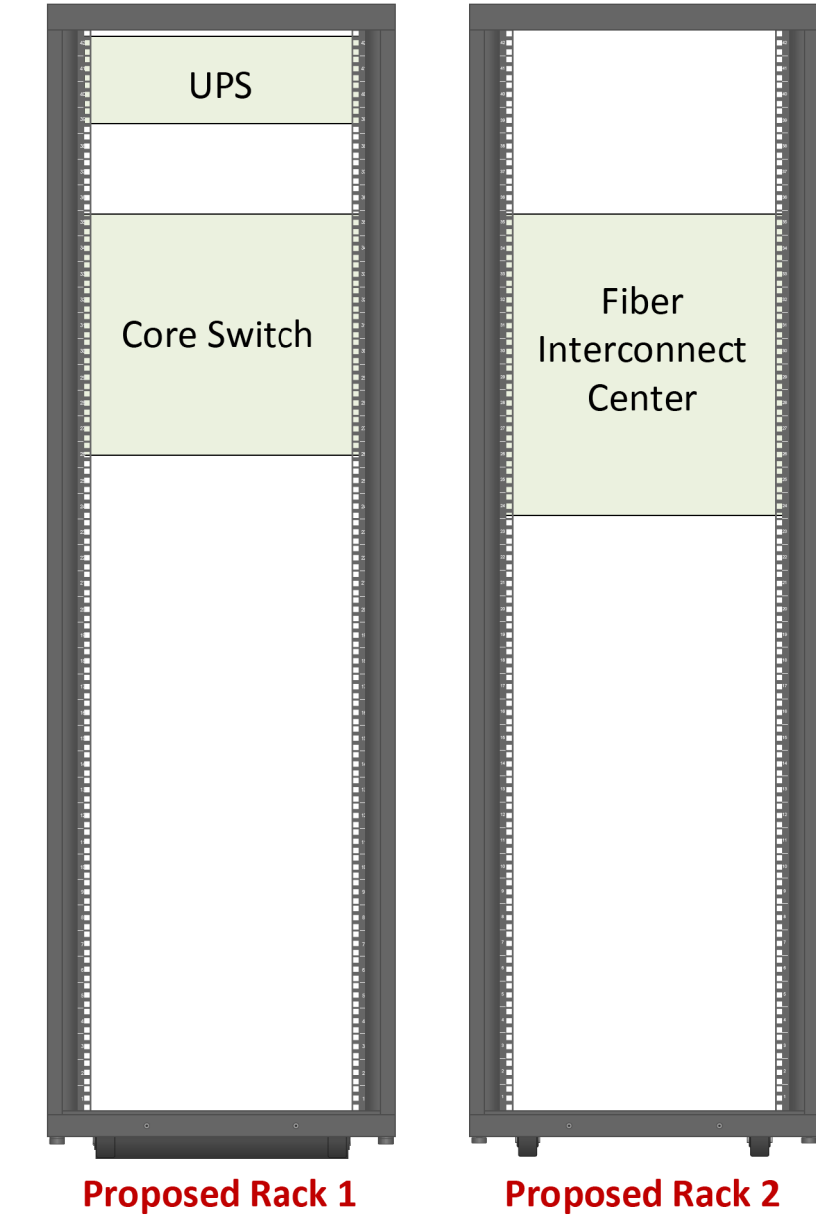
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Raleigh, NC 27636
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Fax: (919) 677-2050

	<p>CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM</p> <p>CITY HALL BUILDING DETAILS</p>							
	<p>DIVISION 05 DURHAM COUNTY</p> <p>PLAN DATE: DEC 2018 REVIEWED BY:</p> <p>PREPARED BY: J. CROSS REVIEWED BY: K. SMITH</p>							
<p>SCALE</p> <p>0</p>	<table border="1"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS	INIT.	DATE				<p>DocuSigned by: Kevin W. Smith SIGNATURE</p> <p>12/17/2018 DATE</p> <p>CADD Filename:</p>
REVISIONS	INIT.	DATE						



EXISTING RACKS



PROPOSED RACKS

NOTE:
REMOVE EXISTING EQUIPMENT AND RACKS FROM CONTROL ROOM IN ACCORDANCE WITH PHASING AS DETAILED IN SPECIFICATION
EXISTING RACKS 1-5 WILL BE REMOVED AND PROPOSED RACK 1 AND 2 WILL BE INSTALLED

ROUTE PROPOSED CABLES FROM 3RD FLOOR JUNCTION BOX UP THROUGH CONDUIT TO 4TH FLOOR CONTROL ROOM. ENSURE WORK IS PERFORMED IN ACCORDANCE WITH PHASING AS DETAILED IN SPECIFICATIONS.
REMOVE EXISTING EQUIPMENT AND RACKS FROM CONTROL ROOM. INSTALL 2 PROPOSED RACKS. SEE RACK DETAILS FOR PROPOSED EQUIPMENT PLACEMENT. REMOVE EQUIPMENT IN ACCORDANCE WITH PHASING AS DETAILED IN SPECIFICATIONS.

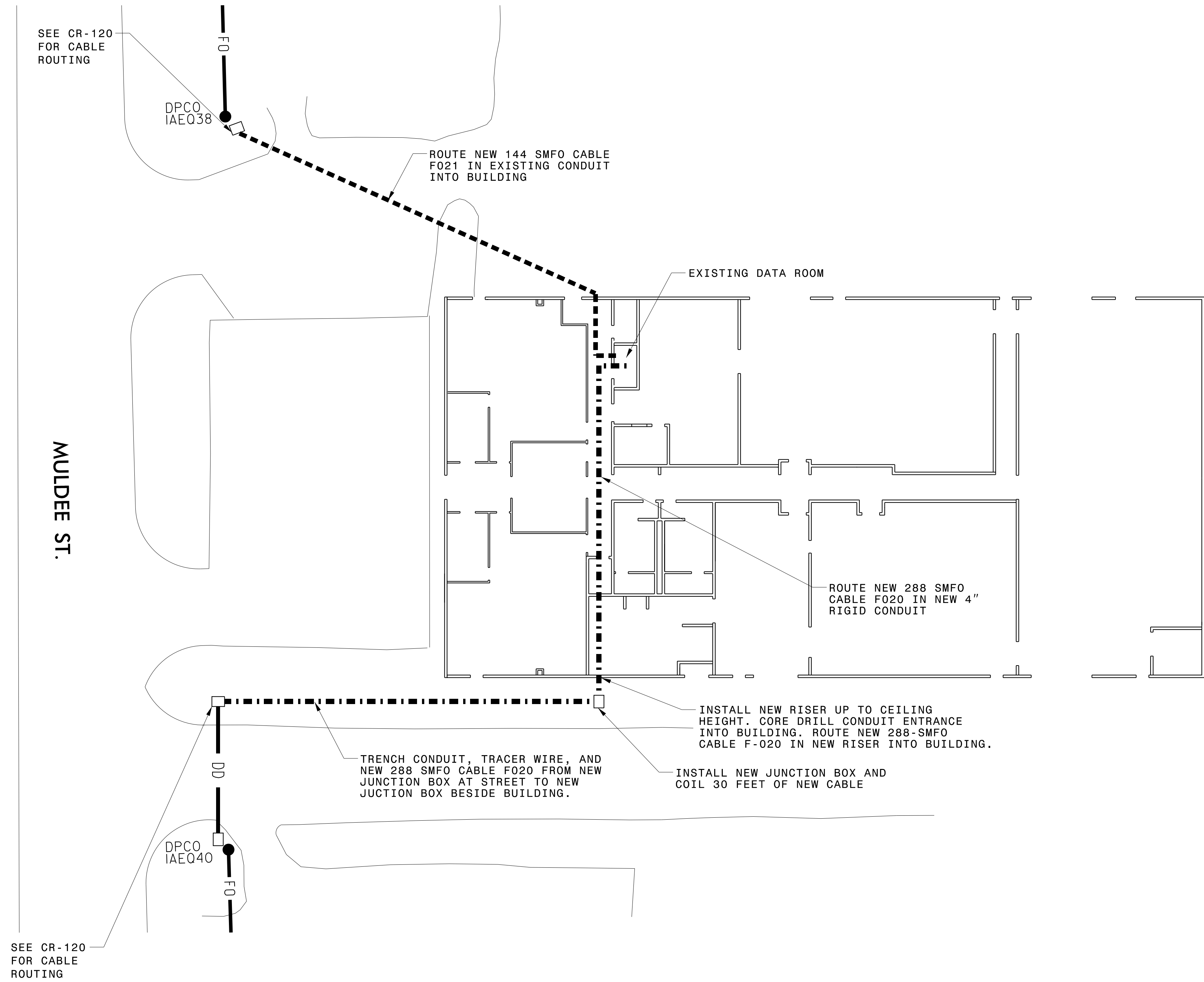
TRAFFIC CONTROL CENTER
CITY HALL - 4TH FLOOR

1/7/2019 K:\ARL_TPTD_ITS\01036410 - Durham Signal System\Plans\Details\U-5968_ITS_psh_J5(ch2).dgn

NOTE:
CONTRACTOR SHALL INVESTIGATE EXISTING CONDUIT ROUTING. COORDINATE WITH ENGINEER FOR INFORMATION ON ANY UNUSED FIBER THAT MAY BE REMOVED AND/OR USED TO PULL NEW CABLES IN. INSTALL CABLE PULL LINE AND ROUTE NEW CABLES IN EXISTING CONDUIT RACEWAYS PER SPECIFICATIONS.

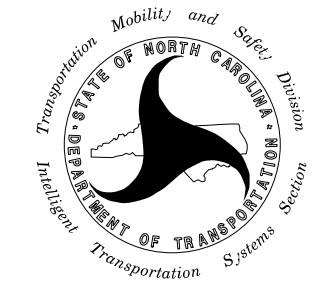
Kimley»Horn
NC License #F-0102
421 Fayetteville St., Suite 600
Raleigh, NC 27636
Tel: (919) 677-2000
Fax: (919) 677-2050

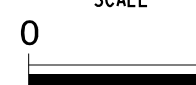
	<p>CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM</p> <p>CITY HALL BUILDING DETAILS</p>		<p>SEAL</p>
	<p>DIVISION 05</p> <p>PLAN DATE: DEC 2018</p> <p>PREPARED BY: J. CROSS</p>	<p>DURHAM COUNTY</p> <p>REVIEWED BY: K. SMITH</p>	




12/21/2018 K:\ARL_TPTD_ITS\0103640 - Durham Signal System\Plans\Details\U-5968_ITS_psh_16(ssl).dgn

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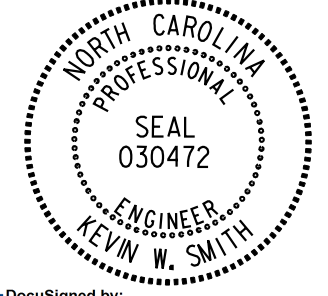
Plans Prepared For:

 250 N. Greenfield Place, Garner, NC 27529

SCALE




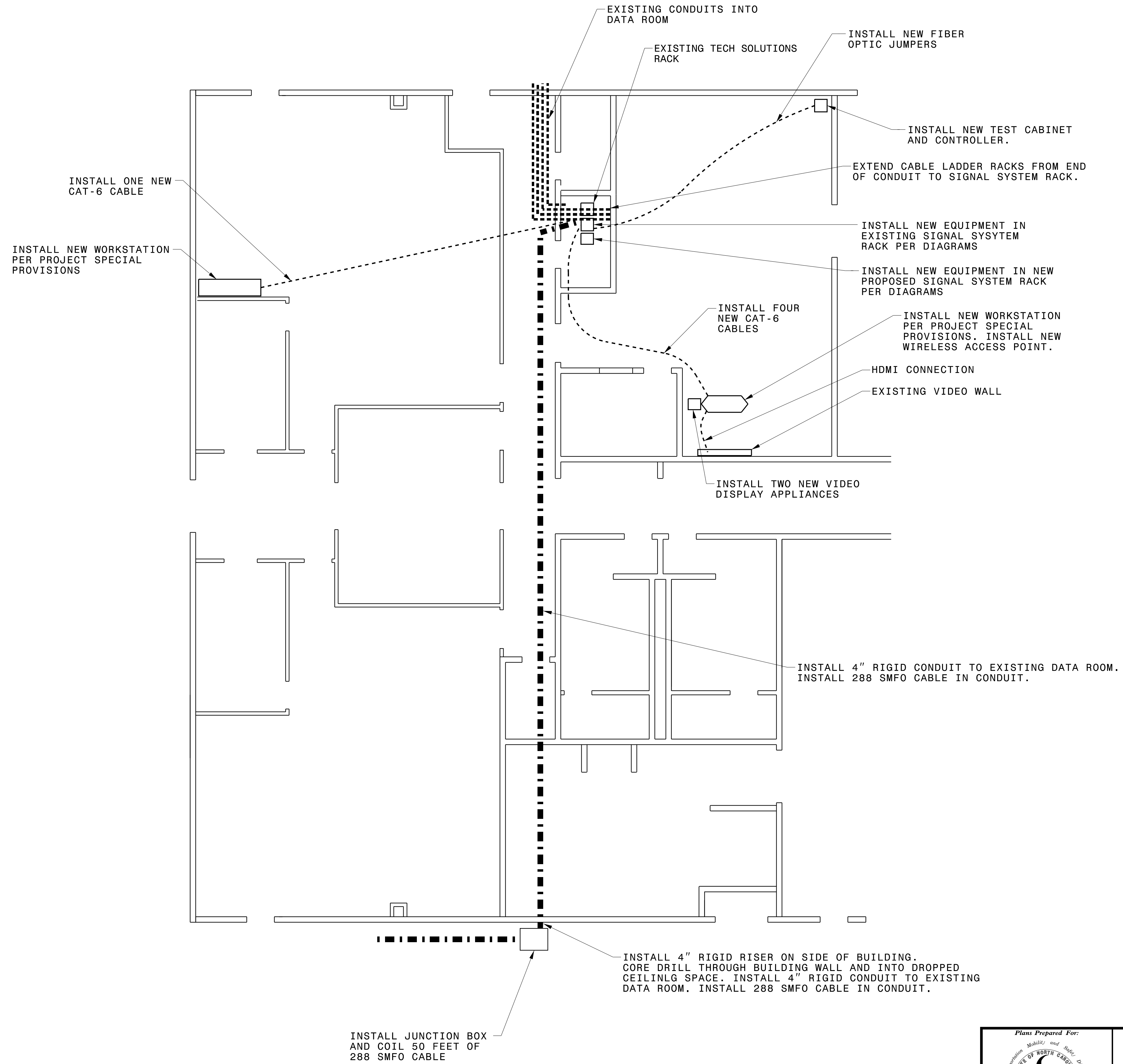
CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM	
SIGNAL SHOP BUILDING DETAILS	
DIVISION 05	DURHAM COUNTY
PLAN DATE: DEC 2018	REVIEWED BY:
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH
REVISIONS	INIT. DATE

SEAL



Designed by: *Kevin W. Smith*
 DATE: 12/21/2018

CADD Filename:



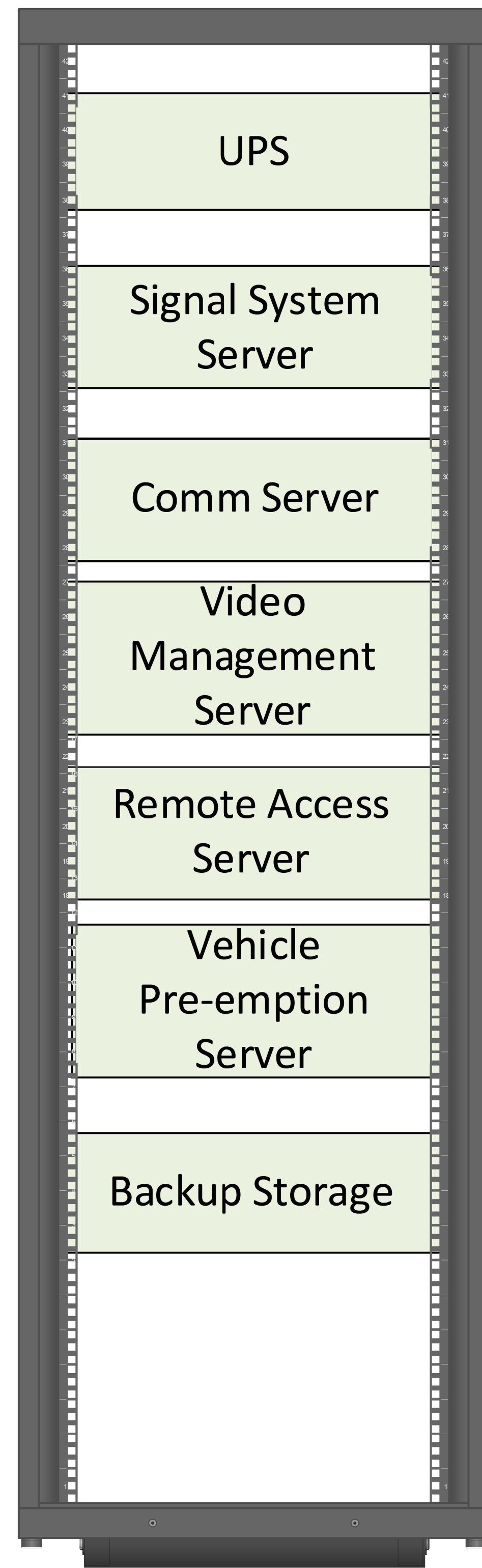
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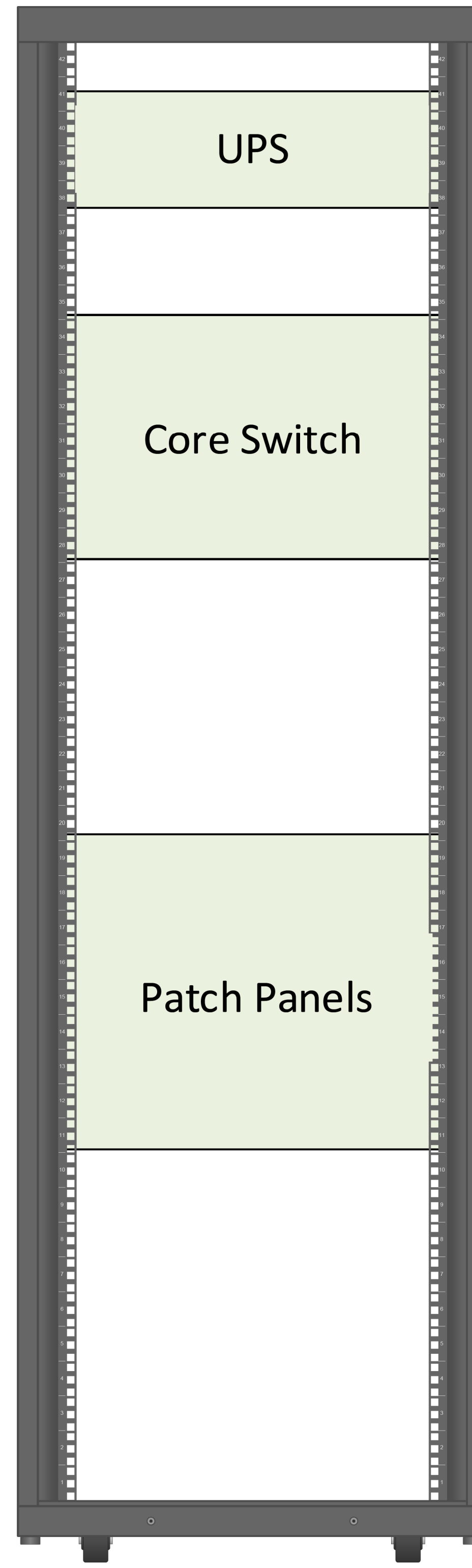
Plans Prepared For:
 Transportation Mobility and Safety Division
 DEPARTMENT OF TRANSPORTATION
 STATE OF NORTH CAROLINA
 250 N. Greenfield Place, Garner, NC 27529

CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM	
SIGNAL SHOP BUILDING DETAILS	
DIVISION 05	DURHAM COUNTY
PLAN DATE: DEC 2018	REVIEWED BY:
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH
REVISIONS	INIT. DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 030472
 KEVIN W. SMITH
 DocuSigned by: KEVIN W. SMITH 1/7/2019
 SIGNATURE DATE
 CADD Filename:



EXISTING SIGNAL SYSTEM RACK

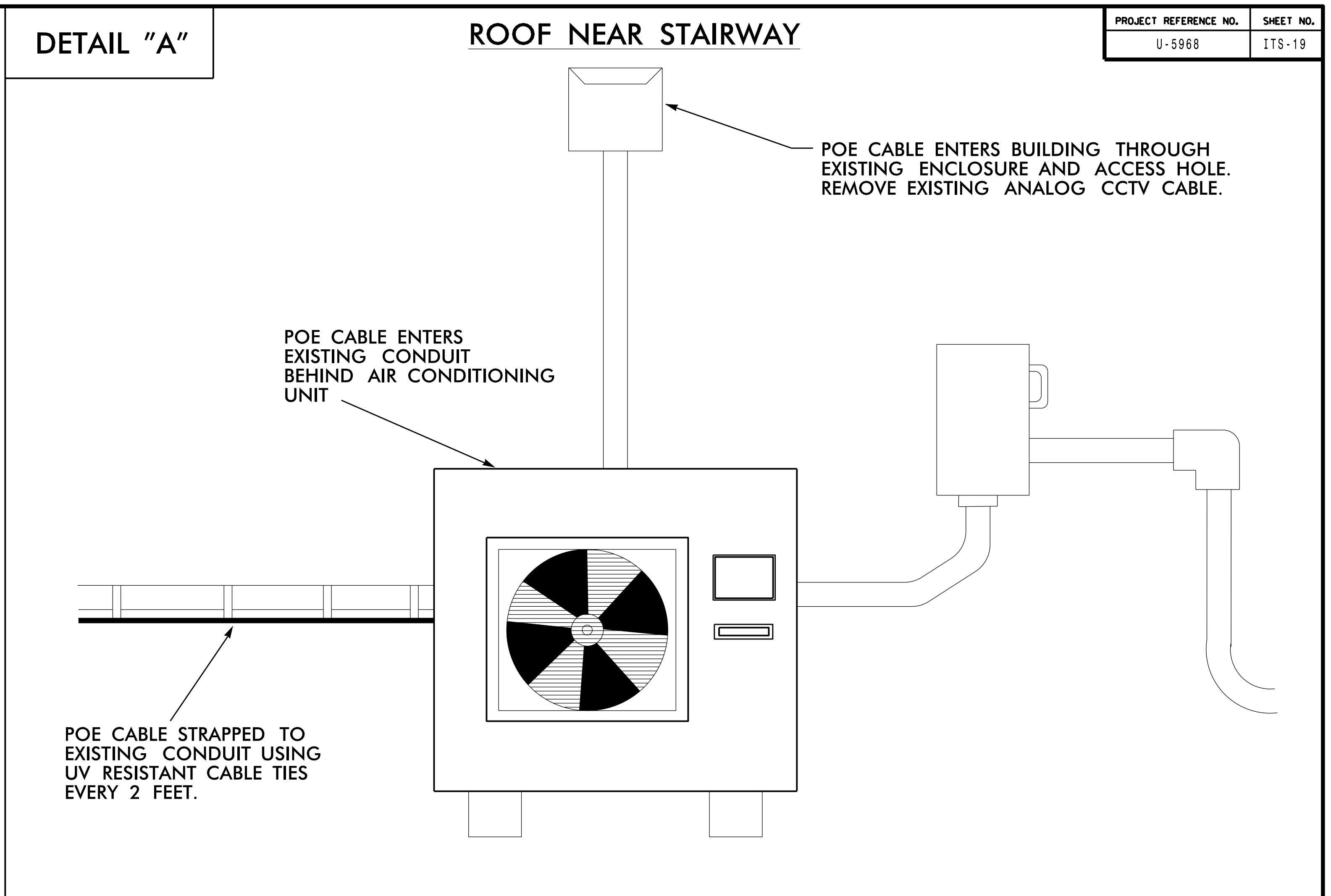
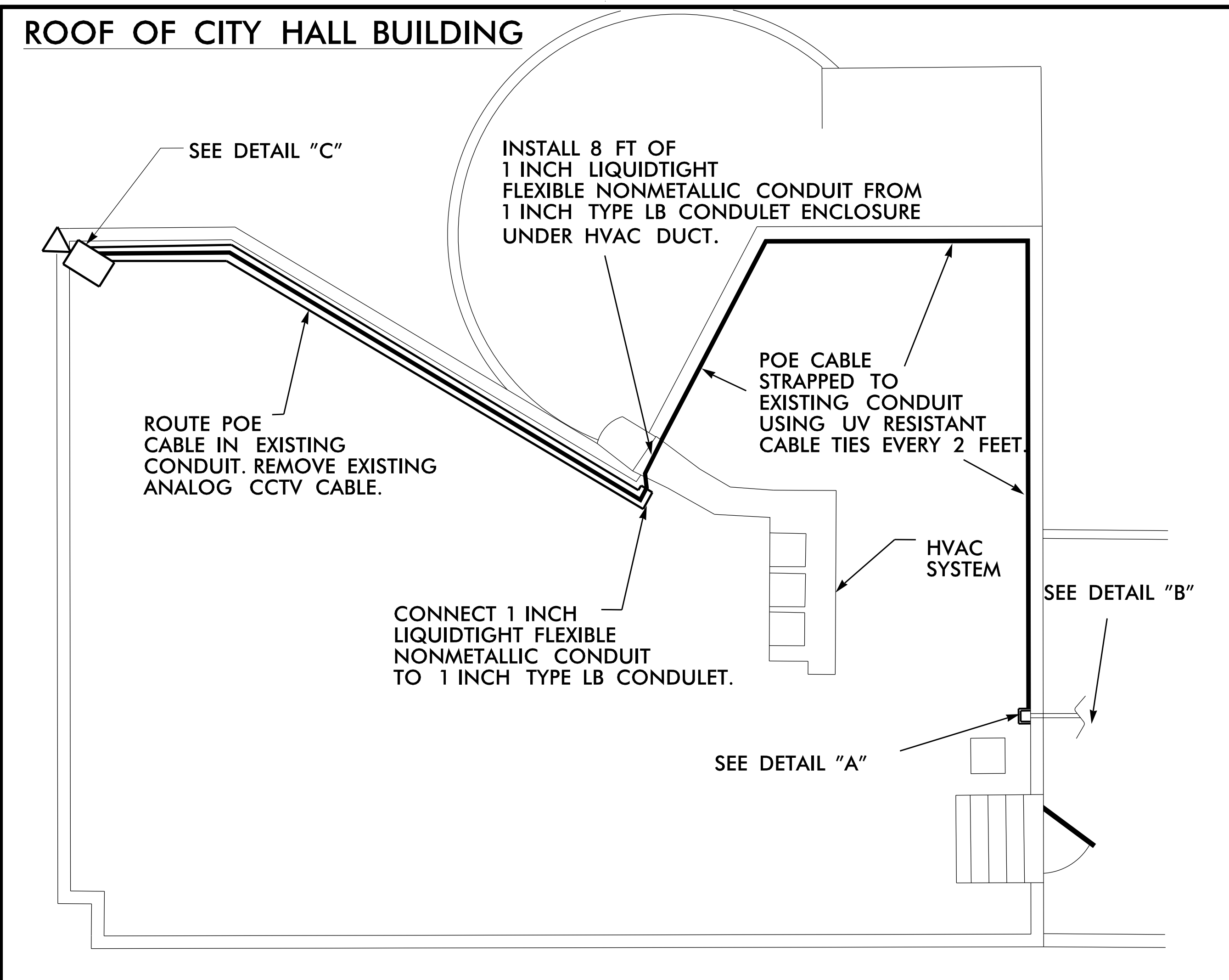


PROPOSED SIGNAL SYSTEM RACK

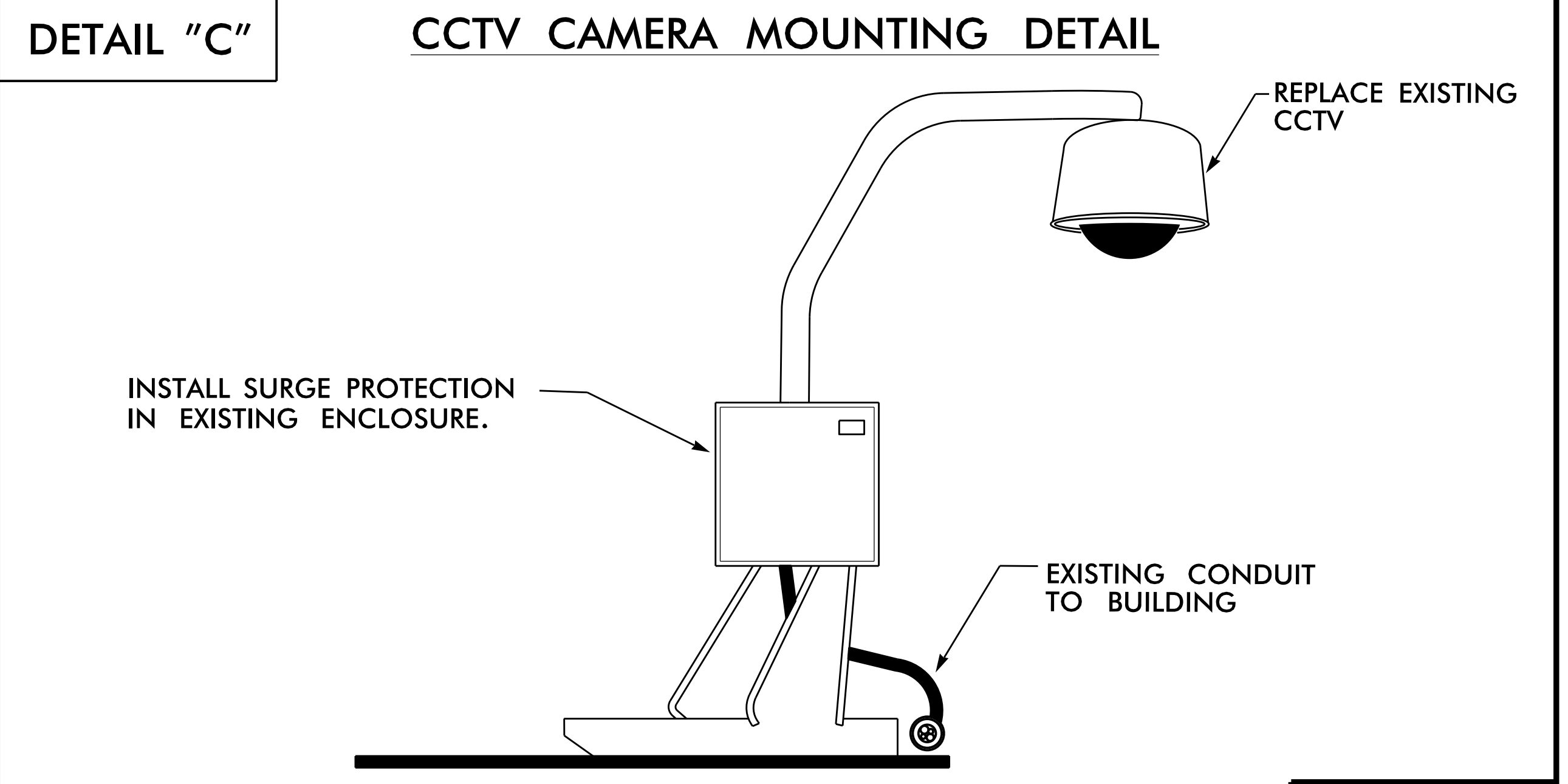
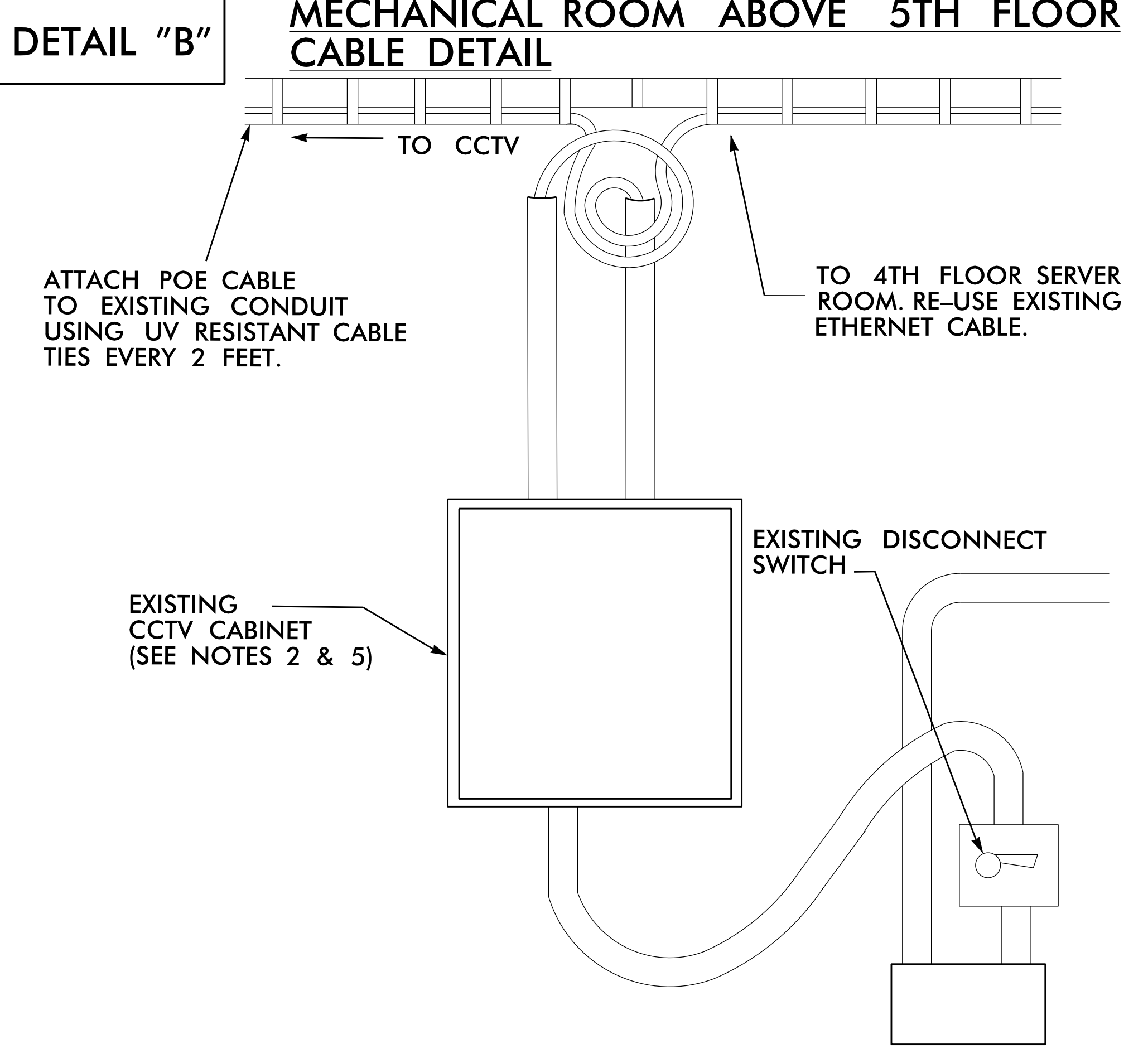
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	CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM SIGNAL SHOP BUILDING DETAILS		SEAL
	DIVISION 05 DURHAM COUNTY		
PLAN DATE: DEC 2018 PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH		Documented by: <u>Kevin Smith</u> 1/7/2019 DATE CADD Filename:
SCALE 0	REVISIONS _____	INIT. DATE _____	

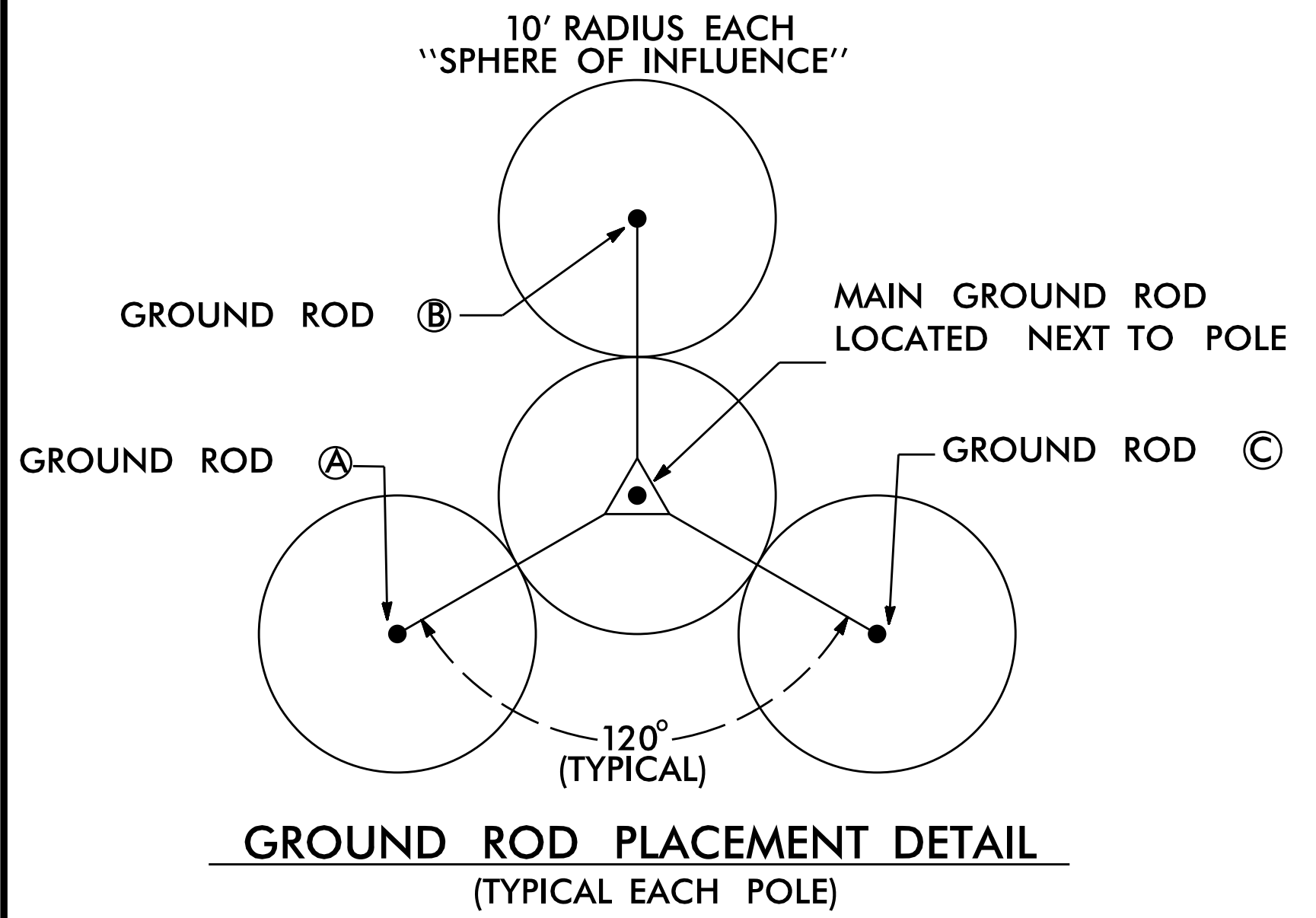


- NOTES:**
1. REPLACE EXISTING ANALOG CCTV CABLE WITH NEW POE CABLE.
 2. REMOVE EXISTING ENCODER AND CCTV POWER SUPPLY FROM CCTV CABINET AND INSTALL ETHERNET EDGE SWITCH IN THE CCTV CABINET.
 3. USE EXISTING ETHERNET CABLE TO ESTABLISH NETWORK CONNECTION TO ETHERNET SWITCH IN 4TH FLOOR SERVER ROOM.
 4. ENSURE ALL CONDUIT ENTRANCES ARE SEALED AFTER CABLE INSTALLATION.
 5. APPROXIMATELY 280 FEET FROM EXISTING CCTV CABINET TO CCTV CAMERA.
 6. CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY EXISTING EQUIPMENT, CABLING, ANTENNAS OR OTHER EQUIPMENT UNRELATED TO THE CCTV ON THE ROOF.



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

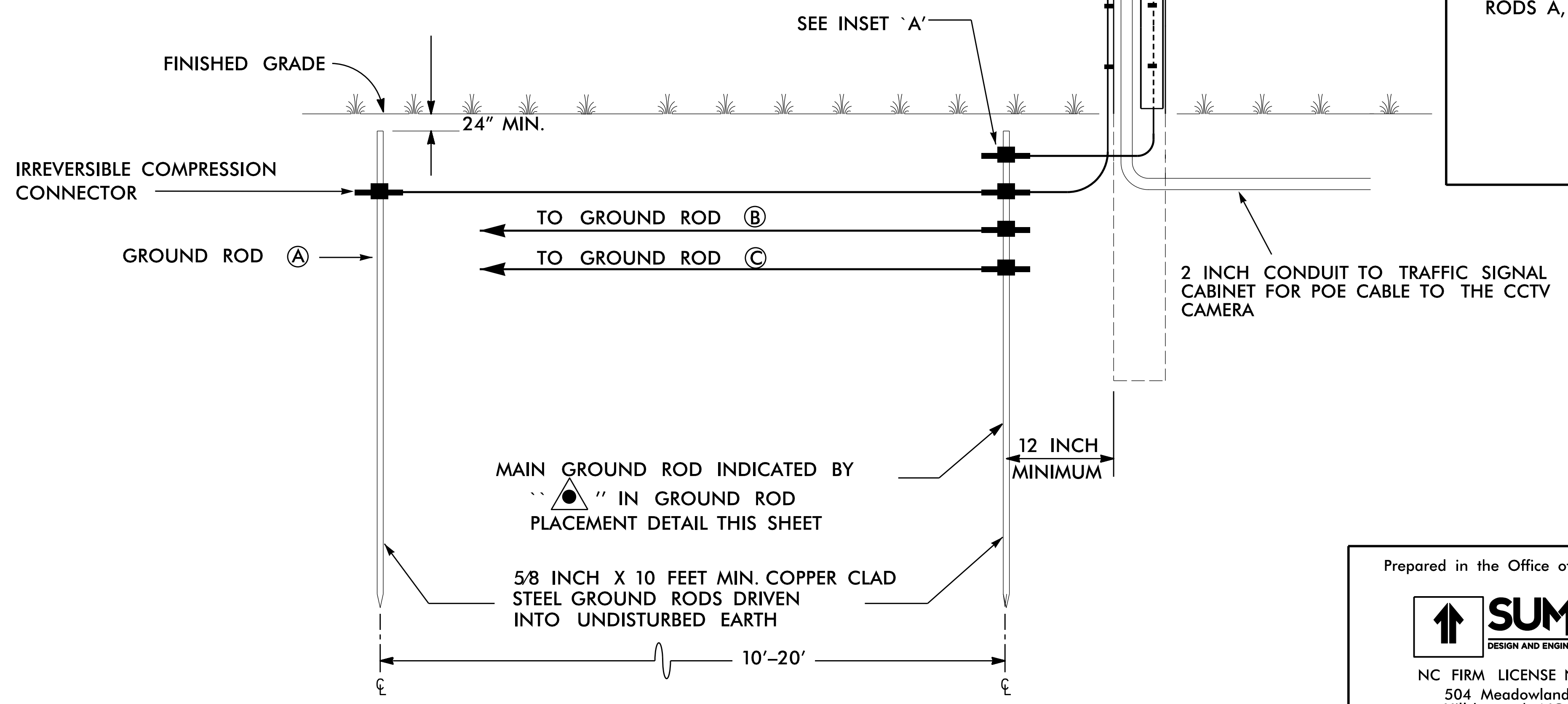
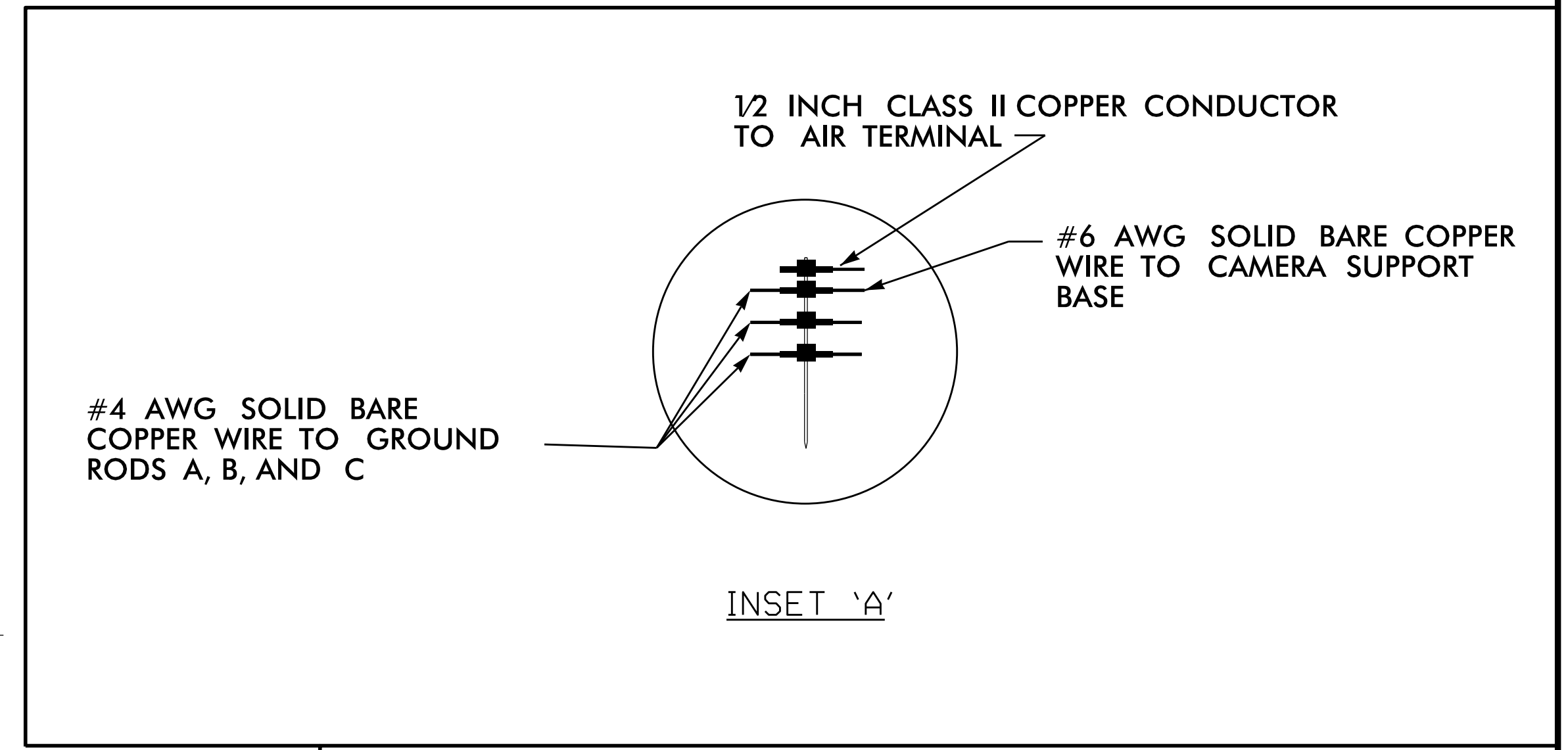
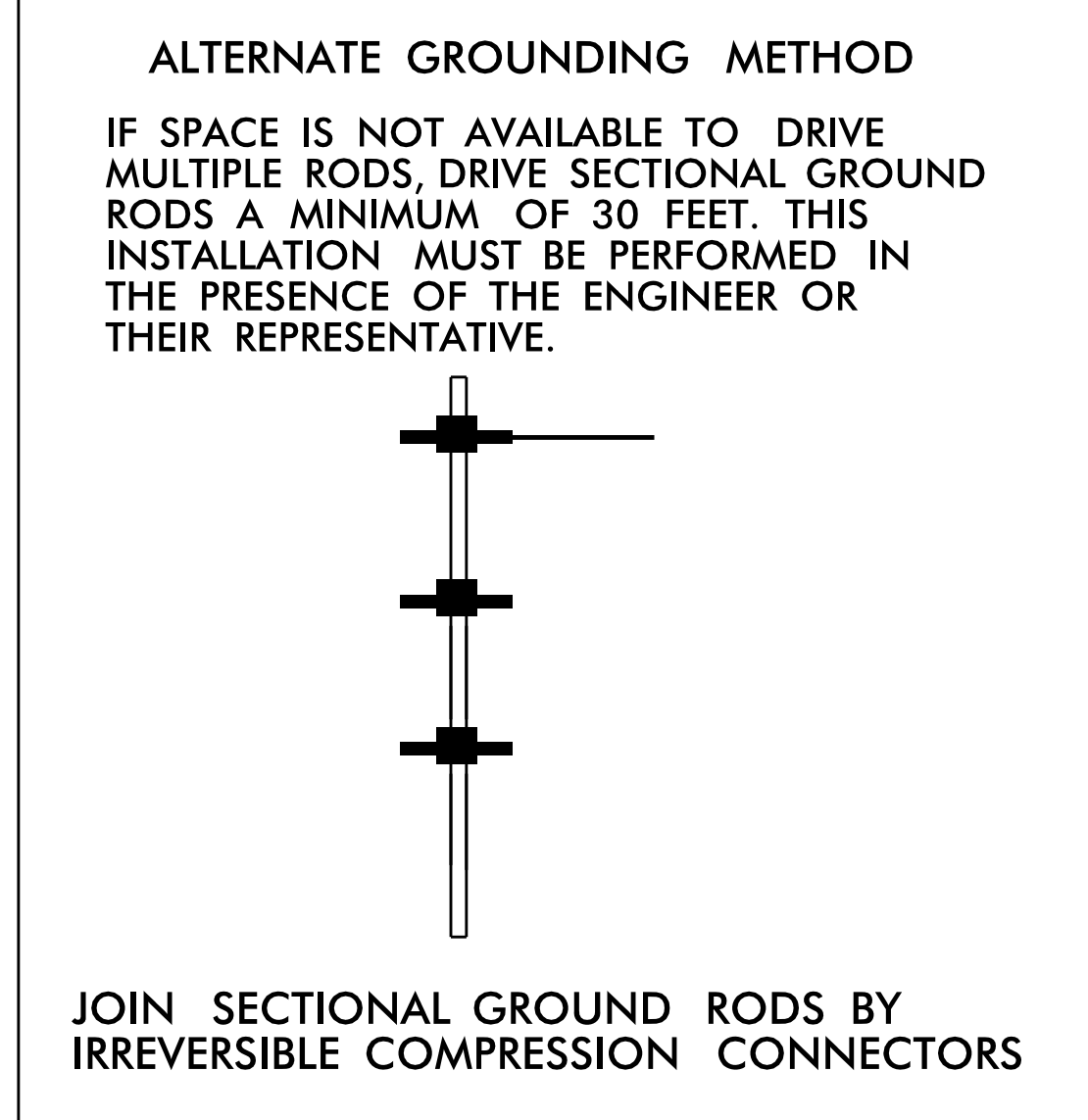
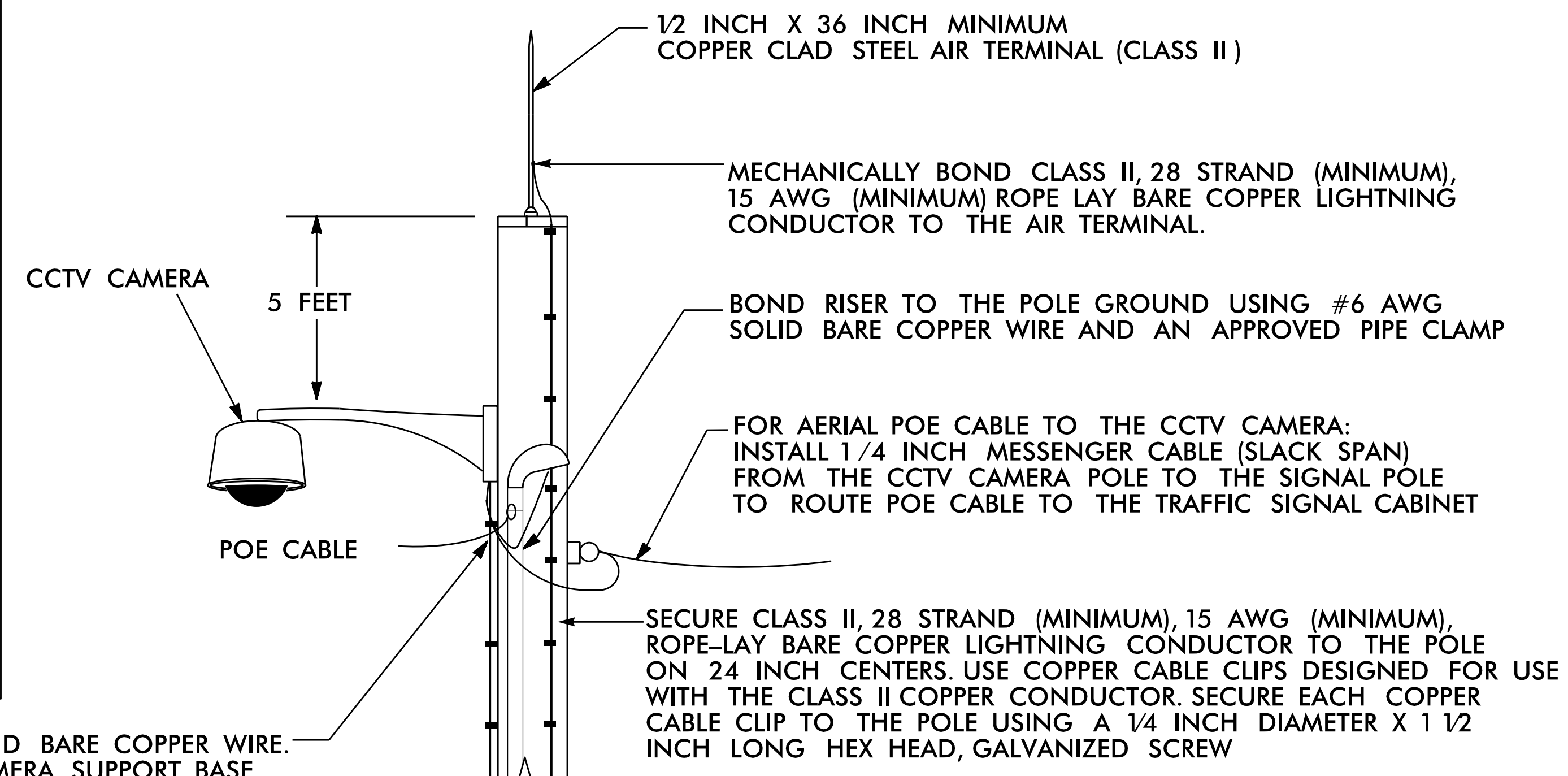
Prepared in the Office of: SUMMIT DESIGN AND ENGINEERING SERVIC NC FIRM LICENSE No: P-0339 504 Meadowlands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)	Prepared for the Offices of: 750 N. Greenfield Pkwy., Garner, NC 27529 SCALE 0	Durham Computerized Signal System City Hall CCTV-2124 Division 5 Durham County		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER GREGORY A. FULLER
		PLAN DATE: March 2018 PREPARED BY: M. Parker	REVIEWED BY: T.G. Parker REVIEWED BY: G.A. Fuller	



BOND CCTV TO GROUND ROD USING A #6 SOLID BARE COPPER WIRE. BOND #6 AWG SOLID BARE COPPER WIRE TO CAMERA SUPPORT BASE BY AN ALUMINUM TO COPPER #2 - #14 AWG LUG. ATTACH TO CAMERA BASE WITH A STAINLESS STEEL SELF TAPPING SCREW. REMOVE PAINT OR PROTECTIVE COATING WHERE ATTACHING LUG ONLY.

INSTALL 2-INCH PVC U-GUARD OVER COPPER CONDUCTOR FROM GROUND LEVEL TO 10 FEET (MINIMUM) ABOVE THE GROUND

FOR UNDERGROUND POE CABLE TO THE CCTV CAMERA: INSTALL 2 INCH RIGID GALVANIZED STEEL RISER WITH WEATHERHEAD FOR POE CABLE TO CCTV CAMERA.



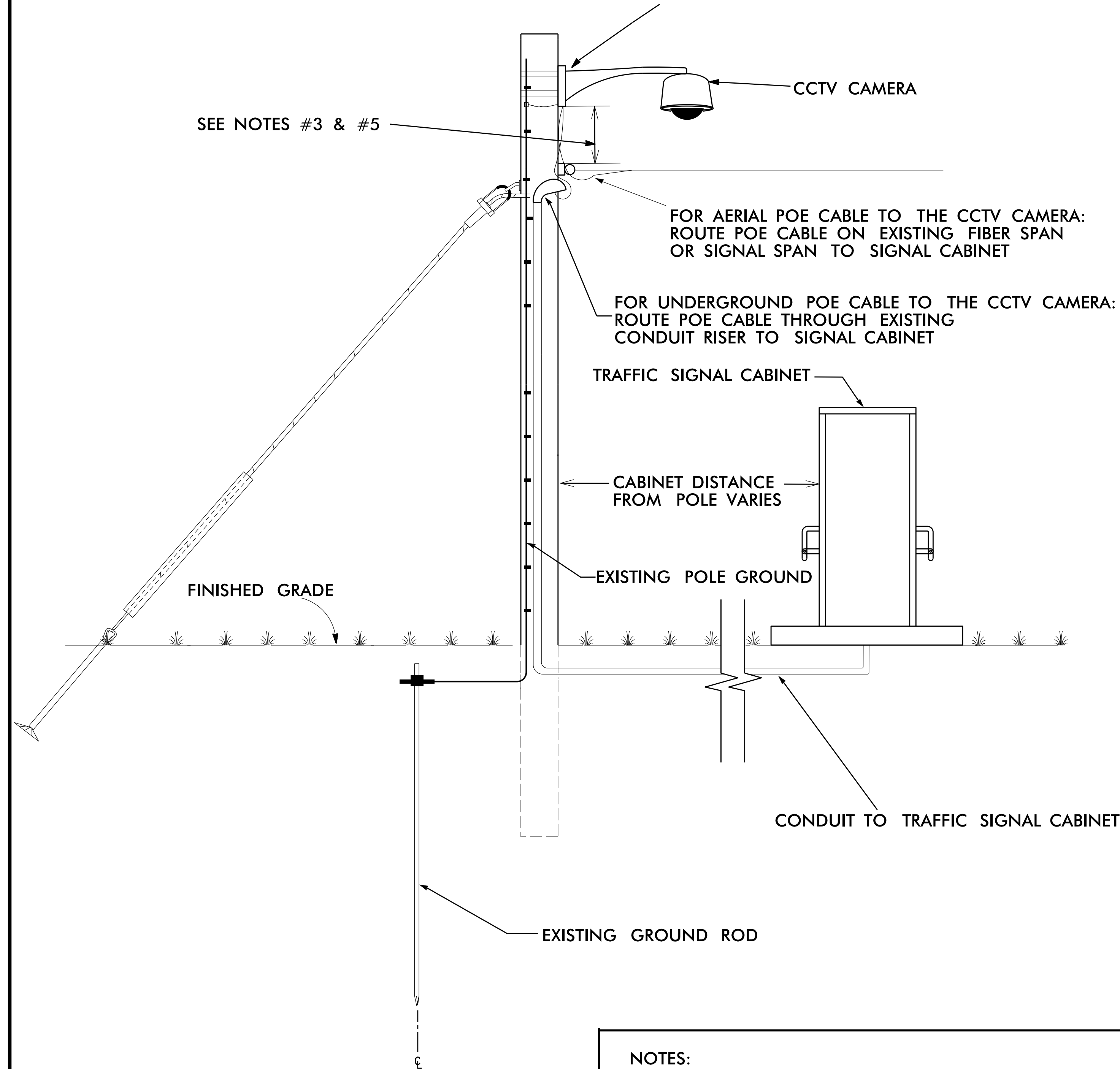
- NOTES:**
- BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE-LAY BARE COPPER CONDUCTOR TO THE MAIN GROUND ROD BY AN EXOTHERMIC WELD METHOD. MAINTAIN MAXIMUM HORIZONTAL SEPARATION BETWEEN COPPER CONDUCTOR AND RISER.
 - ALL OTHER CONNECTIONS TO GROUND RODS SHALL BE MADE USING IRREVERSIBLE COMPRESSION CONNECTOR.
 - THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30-FOOT SECTIONAL GROUND ROD FOR INSTANCES WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 - RADIAL GROUND RODS. THIS INSTALLATION MUST BE PERFORMED IN THE PRESENCE OF THE ENGINEER OR THEIR REPRESENTATIVE.
 - INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12 INCHES.

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		Division 5 PLAN DATE: March 2018 PREPARED BY: M. Parker	Durham County REVIEWED BY: T.G. Parker REVIEWED BY: G.A. Fuller	

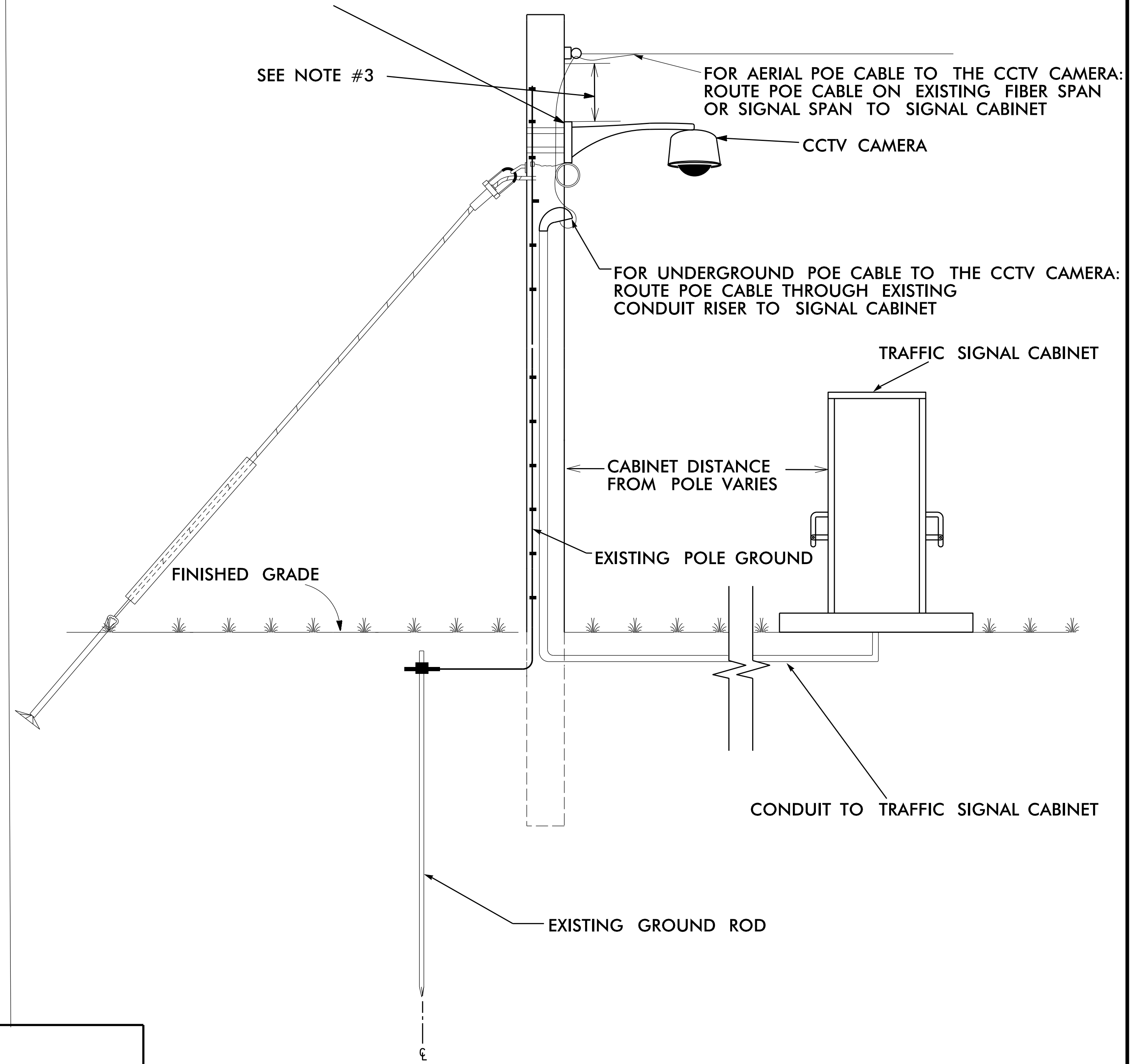
CCTV INSTALLATION ON WOOD SIGNAL POLE ABOVE SPAN

BOND CCTV TO POLE GROUND USING A #6 SOLID BARE COPPER WIRE. BOND #6 AWG SOLID BARE COPPER WIRE TO CAMERA SUPPORT BASE BY AN ALUMINUM TO COPPER #2 - #14 AWG LUG. ATTACH TO CAMERA BASE WITH A STAINLESS STEEL SELF TAPPING SCREW. REMOVE PAINT OR PROTECTIVE COATING WHERE ATTACHING LUG ONLY.



CCTV INSTALLATION ON WOOD SIGNAL POLE BELOW SPAN

BOND CCTV TO POLE GROUND USING A #6 SOLID BARE COPPER WIRE. BOND #6 AWG SOLID BARE COPPER WIRE TO CAMERA SUPPORT BASE BY AN ALUMINUM TO COPPER #2 - #14 AWG LUG. ATTACH TO CAMERA BASE WITH A STAINLESS STEEL SELF TAPPING SCREW. REMOVE PAINT OR PROTECTIVE COATING WHERE ATTACHING LUG ONLY.



NOTES:

1. TERMINATE POE CABLE IN TRAFFIC SIGNAL CABINET AND CONNECT TO FIELD ETHERNET SWITCH.
2. BAND CCTV CAMERA MOUNTING BRACKET TO POLE USING STAINLESS STEEL STRAPS.
3. REFER TO COMMUNICATION CABLE AND CONDUIT ROUTING PLANS FOR PLACEMENT OF CCTV CAMERA ON THE POLE.
4. MAINTAIN 12 INCHES CLEARANCE FROM ALL EXISTING SIGNAL/FIBER SPANS AND 40 INCHES FROM EXISTING POWER.
5. IN LOCATIONS WHERE DISTANCE FROM CCTV TO MESSENGER CABLE EXCEEDS 12 INCHES, INSTALL 1-INCH PVC U-GUARD(S) TO PROTECT POE CABLE.

Prepared in the Office of:



NC FIRM LICENSE No: P-0339
504 Meadowlands Drive
Hillsborough, NC 27278
(919) 732-3883
(919) 732-6676 (FAX)

Prepared for the Offices of:



759 N. Greenfield Pkwy., Garner, NC 27529

Durham Computerized
Signal System
CCTV Camera Wood Signal Span Pole
Typical Detail
Division 5 Durham County

PLAN DATE: March 2018 REVIEWED BY: T.G. Parker
PREPARED BY: M. Parker REVIEWED BY: G.A. Fuller

REVISIONS	INIT.	DATE

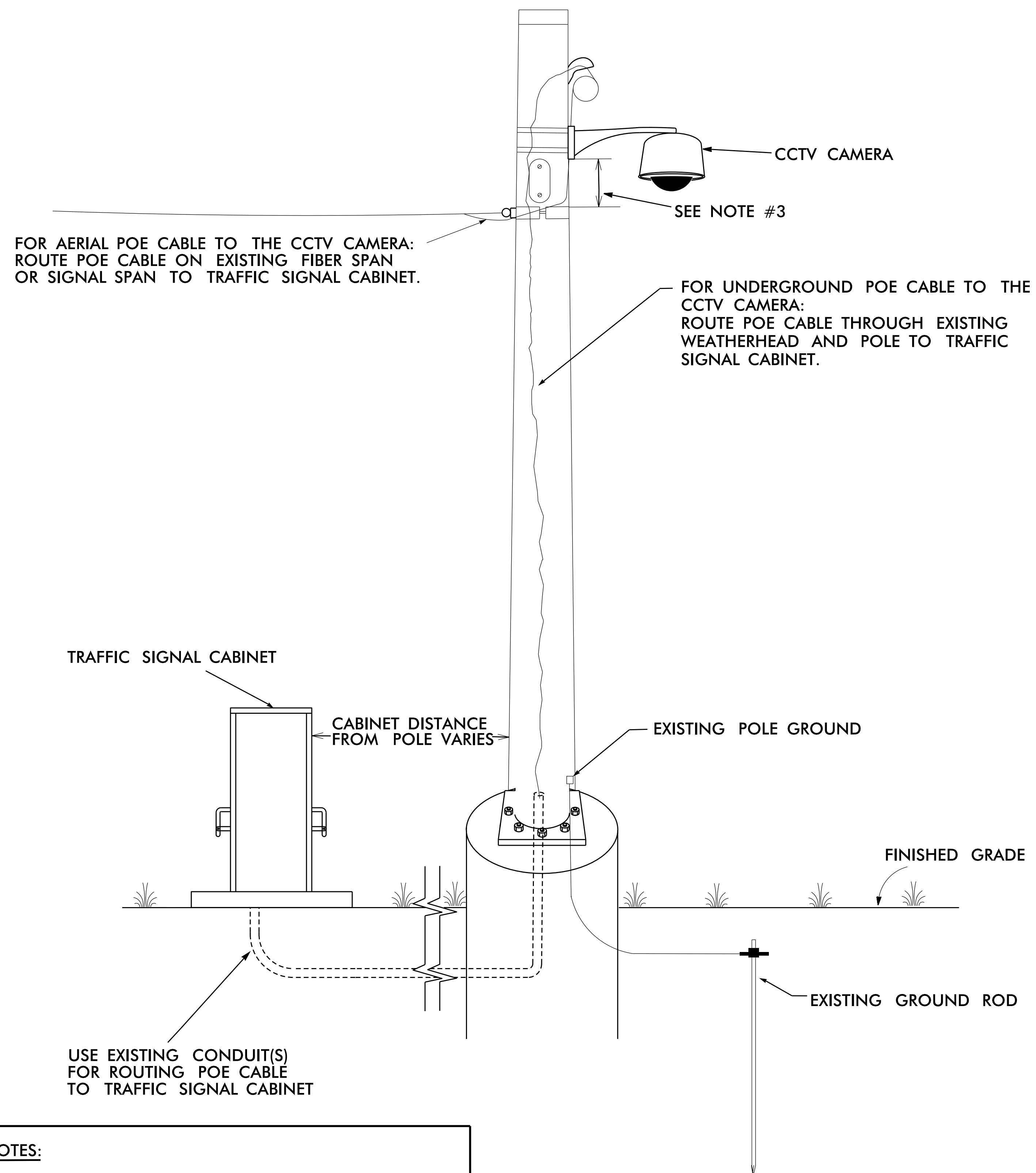
SCALE



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FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL
NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
023919
GREGORY A. FULLER
DocuSigned by:
Gregory A. Fuller 12/6/2018
DATE
CADD Filename:

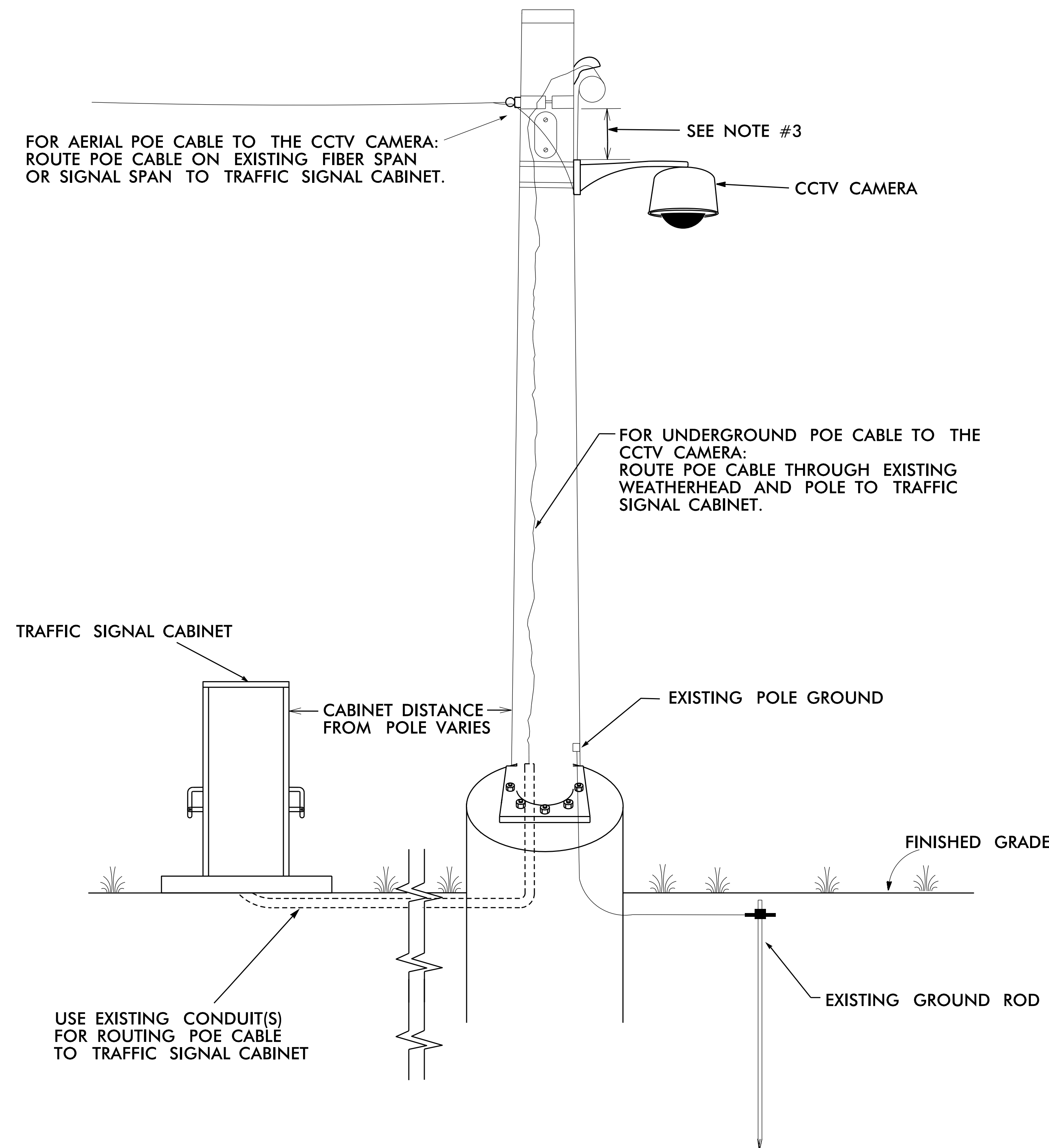
CCTV INSTALLATION ON METAL STRAIN POLE ABOVE SPAN



NOTES:

1. TERMINATE POE CABLE IN TRAFFIC SIGNAL CABINET AND CONNECT TO FIELD ETHERNET SWITCH.
2. BAND CCTV CAMERA MOUNTING BRACKET TO POLE USING STAINLESS STEEL STRAPS.
3. REFER TO COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS FOR PLACEMENT OF CCTV CAMERA ON THE POLE.

CCTV INSTALLATION ON METAL STRAIN POLE BELOW SPAN



Prepared in the Office of:



NC FIRM LICENSE No: P-0339
 504 Meadowlands Drive
 Hillsborough, NC 27278
 (919) 732-3883
 (919) 732-6676 (FAX)

Prepared for the Offices of:



759 N. Greenfield Place, Garner, NC 27529

Durham Computerized
 Signal System
 CCTV Camera Metal Strain Pole
 Typical Detail

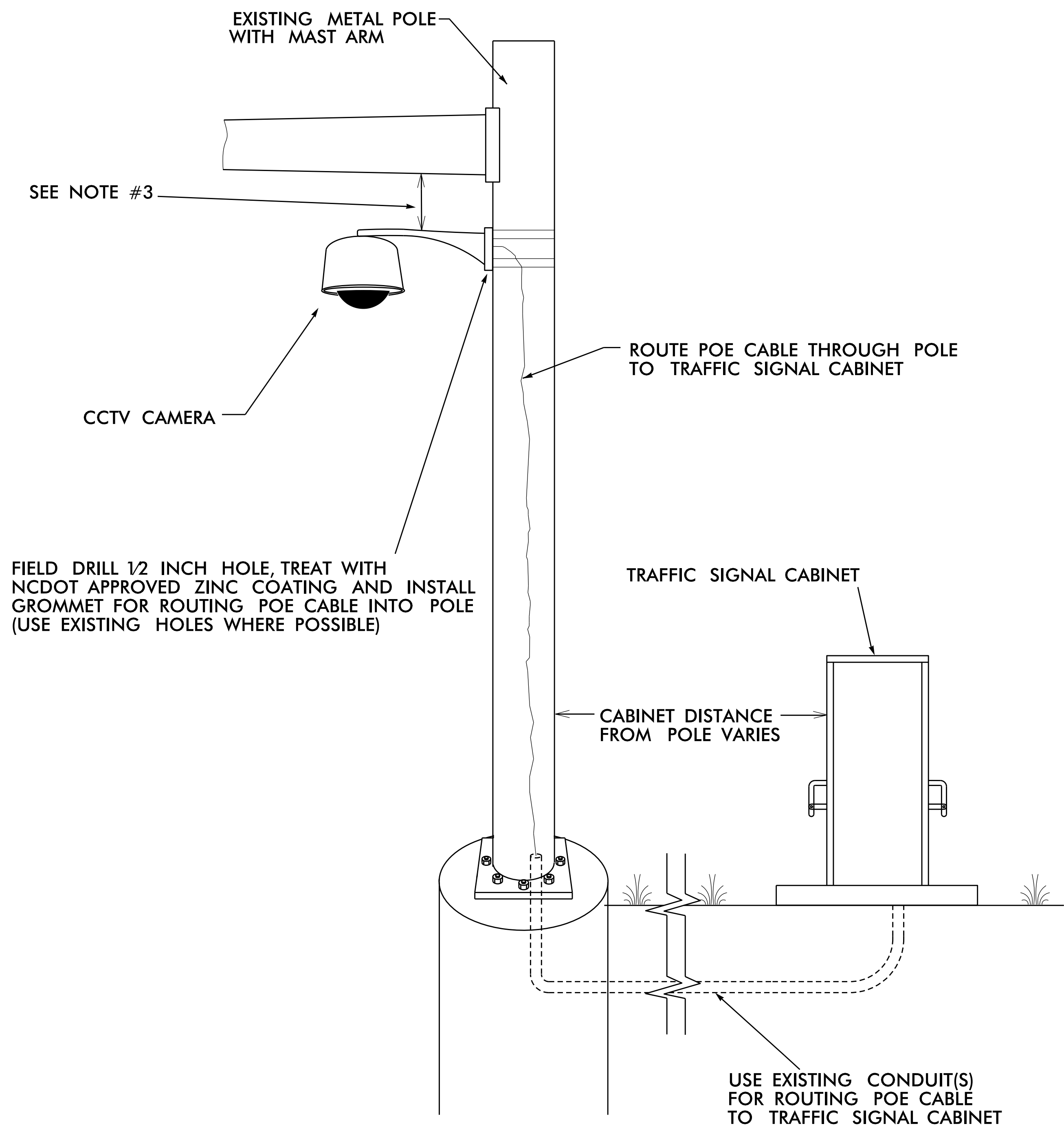
Division 5 Durham County
 PLAN DATE: March 2018 REVIEWED BY: T.G. Parker
 PREPARED BY: M. Parker REVIEWED BY: G.A. Fuller

REVISIONS	INIT.	DATE

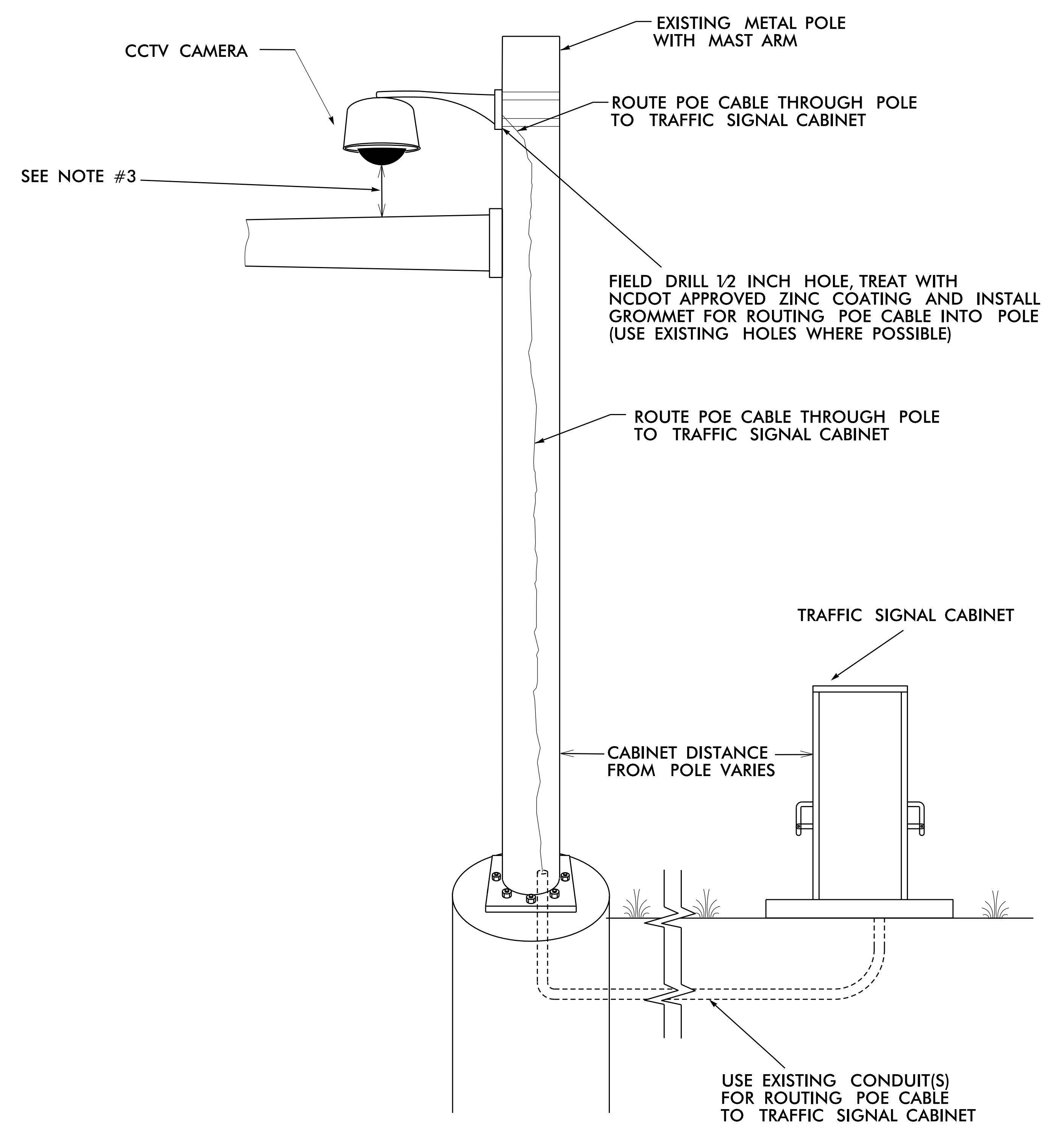
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 GREGORY A. FULLER
 SEAL 023919
 DocuSigned by:
 Gregory A. Fuller 12/6/2018
 CADD Filename:

CCTV INSTALLATION ON MAST ARM UPRIGHT BELOW ARM



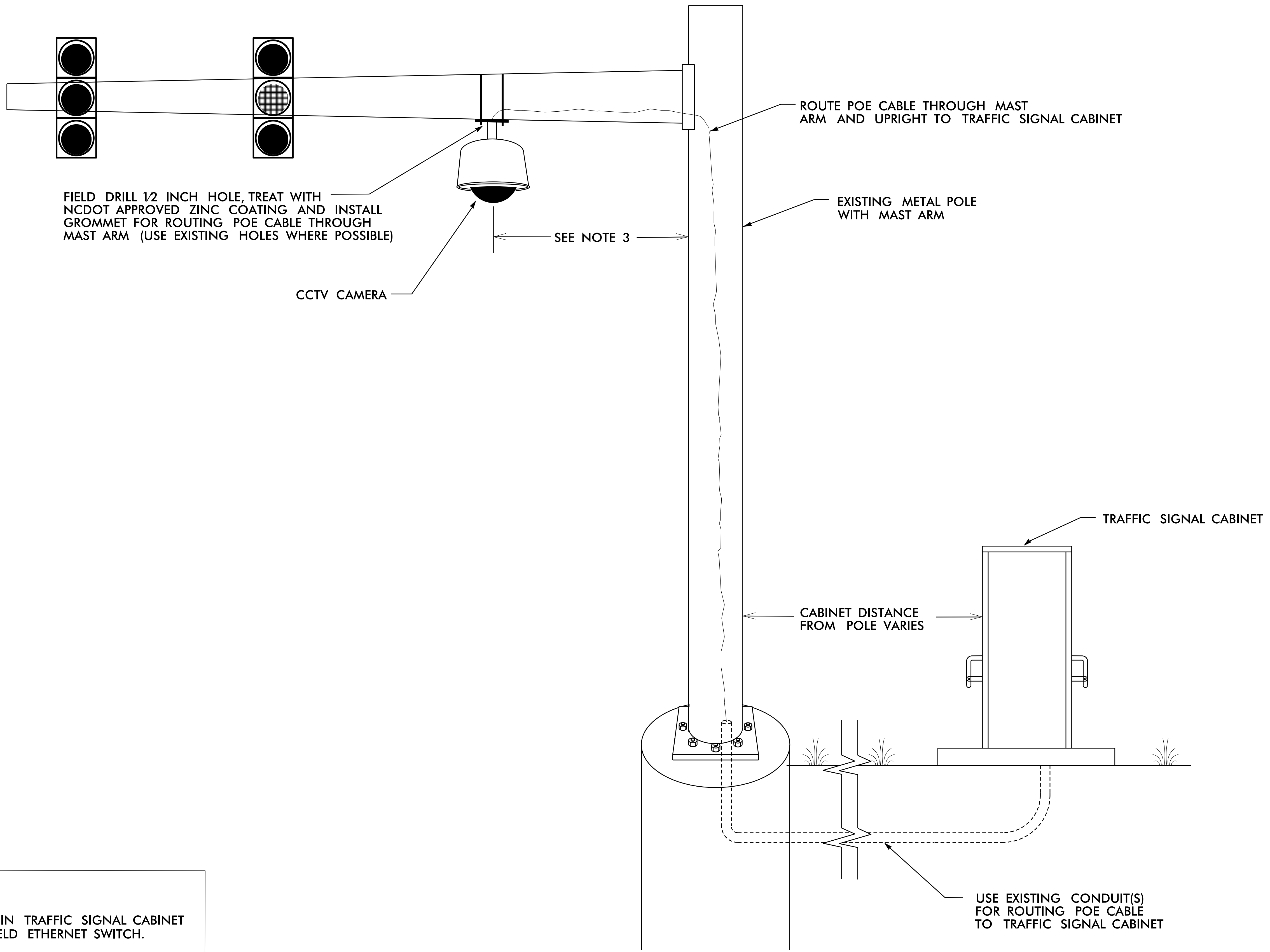
CCTV INSTALLATION ON MAST ARM UPRIGHT ABOVE ARM



PROJECT REFERENCE NO. U-5968	SHEET NO. ITS-23
---------------------------------	---------------------

- NOTES:**
1. TERMINATE POE CABLE IN TRAFFIC SIGNAL CABINET AND CONNECT TO FIELD ETHERNET SWITCH.
 2. BAND CCTV CAMERA MOUNTING BRACKET TO POLE USING STAINLESS STEEL STRAPS
 3. REFER TO COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS FOR PLACEMENT OF CCTV CAMERA ON THE POLE.

Prepared in the Office of: NC FIRM LICENSE No: P-0339 504 Meadowlands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)	Prepared for the Offices of: 750 N. Greenfield Pkwy., Garner, NC 27529	Durham Computerized Signal System CCTV Camera Mast Arm Upright Typical Detail	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL NORTH CAROLINA PROFESSIONAL ENGINEER CATEGORY A GREGORY A. FULLER 023919
		Division 5 Durham County	



NOTES:

1. TERMINATE POE CABLE IN TRAFFIC SIGNAL CABINET AND CONNECT TO FIELD ETHERNET SWITCH.
2. BAND CCTV CAMERA MOUNTING BRACKET TO POLE USING STAINLESS STEEL STRAPS
3. REFER TO COMMUNICATIONS CABLE AND CONDUIT ROUTING PLANS FOR PLACEMENT OF CCTV CAMERA ON THE POLE.

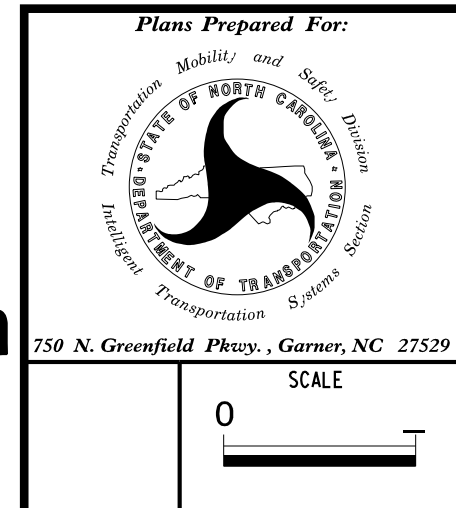
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared in the Office of: NC FIRM LICENSE No: P-0339 504 Meadowlands Drive Hillsborough, NC 27278 (919) 732-3883 (919) 732-6676 (FAX)	Prepared for the Offices of: 750 N. Greenfield Pkwy., Garner, NC 27529	Durham Computerized Signal System CCTV Camera Mast Arm Typical Detail		 SEAL NORTH CAROLINA PROFESSIONAL ENGINEER GREGORY A. FULLER CATEGORY A
		Division 5 PLAN DATE: March 2018 PREPARED BY: M. Parker	Durham County REVIEWED BY: T.G. Parker REVIEWED BY: G.A. Fuller	

Reference											Signal Cabinets											
No.	State ID	City ID	Status	Street 1	Street 2	Located Within Designated Historic District	Cable Routing Sheet No.	Comm Group No.	Splice Detail Sheet No.	Signal Plan Sheet No.	34	34	32	32	31	31	33	33	-	35	-	64
											Remove Existing Base Mounted Cabinet	Remove Existing Pole Mounted Cabinet	Install New Base Mounted 332 Cabinet	Install New Base Mounted 332 with Aux File	Install New Pole Mounted 336S Cabinet	Install New Pole Mounted 336S Cabinet with Aux File	Install New Base Mounted 336S Cabinet	Install New Base Mounted 336S Cabinet with Aux File	Salvage Existing Painted Cabinet	Install Cabinet Base Adapter	Install Cabinet Base Extender	Install Terminal Splice Box
1	05-0006		EXISTING	Durham-Chapel Hill Blvd.	Tower Dr.		257	C36	355	402	1			1							1	
2	05-0009		EXISTING	Morgan St.	Morris St.	YES	452	A10	-	2	1						1					
3	05-0052		EXISTING	MLK Jr. Pkwy.	Archdale Dr.		233	C35	347	3	1			1								1
4	05-0108		EXISTING	Horton Rd.	Stadium Dr.		547	A12	148	4	1			1								1
5	05-0123		EXISTING	Guess Rd.	I-85 SB Ramp		492	A08	98	5	1			1								1
6	05-0124		EXISTING	Guess Rd.	I-85 NB Ramp		492	A08	99	6	1		1									1
7	05-0125		EXISTING	Cheek Rd.	Hardee St.		469	A07	93	7	1			1								1
8	05-0130		EXISTING	Swift Av.	NC 147 NB Ramp	YES	440	A09	116	8	1			1								1
9	05-0132		EXISTING	Chapel Hill St.	NC 147 SB Ramp	YES	450	A11	132	9	1			1								1
10	05-0133		EXISTING	Cole Mill Rd.	Hillsborough Rd.		423	A02	24	10	1			1								1
11	05-0135		EXISTING	Avondale Dr.	Foushee St.		460	A06	75	11	1			1								1
12	05-0138		EXISTING	Holloway St.	Junction Rd.		345	B16	160	12	1			1								1
13	05-0143		EXISTING	Durham-Chapel Hill Blvd.	Westgate Dr.		256	C36	356	13	1			1								1
14	05-0145		EXISTING	Duke St.	Fairfield St.		528	A04	47	14	1						1					1
15	05-0146		EXISTING	Academy Rd.	University Dr.		295	C38	386	15		1		1								1
16	05-0147		EXISTING	Alston Av.	Dowd St.		474	A07	88	16	1			1								1
17	05-0193		EXISTING	Foster St.	Morgan St.	YES	453	A10	128	17	1							1				
18	05-0206		EXISTING	Morgan St.	Rigsbee Av.	YES	453	A10	128	18	1						1					
19	05-0227		EXISTING	TW Alexander Dr.	Cornwallis Rd.		179	B17	167	19	1			1								1
20	05-0228		EXISTING	Alston Av.	Taylor St.	YES	365	B23	258	20	1			1								1
21	05-0234		EXISTING	Cornwallis Rd.	West Institute Dr.	YES	189	B18	189	21	1			1								1
22	05-0238		EXISTING	Duke St.	Corporation St.	YES	439	A11	135	22	1		1									1
23	05-0250		EXISTING	Great Jones St.	Main St.	YES	451	A11	-	23	1						1					
24	05-0251		EXISTING	Erwin Rd.	Research Dr. / Douglas St.		325	A01	10	24	1			1								1
25	05-0254		EXISTING	Hillsborough Rd.	Oakland Av. / Trent Dr.	YES	430	A03	29	25		1		1								1
26	05-0265		EXISTING	Hillsborough Rd.	LaSalle St.		425	A02	27	26	1			1								1
27	05-0271		EXISTING	Holloway St.	Raynor St.		343	B16	163	27		1		1								1
28	05-0274		EXISTING	Cornwallis Rd.	US 15-501 Bypass NB Ramp		262	C36	359	28	1			1								1
29	05-0275		EXISTING	Alston Av.	Linwood Av.	YES	368	B23	252	29			1									1
30	05-0276		EXISTING	Hillsborough Rd.	US 15-501 NB Ramp		424	A02	26	30	1			1								1
31	05-0277		EXISTING	Fayetteville St.	Cornwallis Rd. (North)		385	B21	238	31			1									1
32	05-0278		EXISTING	Cameron Blvd.	Science Dr.		269	A01	4	32			1					1				1
33	05-0279		EXISTING	Chapel Hill Rd.	Lakewood Shopping Center	YES	314	C38	392	33			1					1				1
34	05-0280		EXISTING	Liberty St.	Miami Blvd.		375	B16	163	34			1									1
35	05-0284		EXISTING	Alston Av.	NC 147 NB Ramp	YES	367	B23	255	35	1		1									1
36	05-0289		EXISTING	NC 55	Cornwallis Rd.		94	B21	228	36	1			1								1
37	05-0290		EXISTING	Chapel Hill St.	Mangum St.	YES	454	A10	130	37	1						1					
38	05-0294		EXISTING	Hillandale Rd.	I-85 NB Ramp		445	A03	34	38	1			1								1
39	05-0301		EXISTING	Carver St.	Duke St.		530	A04	49	39			1			1						
40	05-0302		EXISTING	Duke St.	Leon St.		534	A04	55	40	1			1								1
41	05-0304		EXISTING	Roxboro St.	Murray Av./Bonair Ave.		558	A05	70	41	1			1								1
42	05-0307		EXISTING	Club Blvd.	Roxboro St.		539	A05	72	42	1			1						1		
43	05-0308		EXISTING	Avondale Dr.	Roxboro St.		461	A06	73	43	1			1								1
44	05-0311		EXISTING	Alston Av.	Geer St.		465	A07	89	44			1				1					1
45	05-0317		EXISTING	Alston Av.	Lawson St.		369	B23	251	45	1			1								1
46	05-0318		EXISTING	Fayetteville St.	Lawson St.	YES	380	C31	289	46	1			1								1
47	05-0319		EXISTING	Fayetteville St.	Umstead St.	YES	378	C31	291	47			1					1				1
48	05-0321		EXISTING	Fayetteville St.	Pettigrew St.	YES	377	C31	293	48	1			1								1
49	05-0324		EXISTING	Duke St.	University Dr.	YES	319	C37	372	49	1			1								1
50	05-0325		EXISTING	Roxboro St.	Lakewood Av.		333	C37	376	50	1		1									1

12/20/2018 K:\ARL\TPTD\ITS\01036410 - Durham Signal System\Plans\Details\U-5968\ITS_posr_25(sow).dgn

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CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM
SUMMARY OF WORK BY INTERSECTION

DIVISION 05 DURHAM COUNTY

PLAN DATE: DEC 2018 REVIEWED BY: J. CROSS

PREPARED BY: J. CROSS REVIEWED BY: K. SMITH

REVISIONS	INIT.	DATE

SCALE: 0 [Graphic Scale]

SEAL

KEVIN W. SMITH
 PROFESSIONAL ENGINEER
 STATE OF NORTH CAROLINA
 License No. 030472

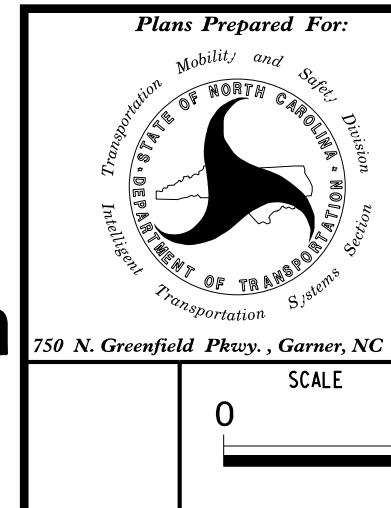
DocuSigned by:
Kevin W. Smith
 DATE: 12/21/2018

CADD Filename:

Reference											Cabinet Foundations						Controllers		Preemption			
No.	State ID	City ID	Status	Street 1	Street 2	Located Within Designated Historic District	Cable Routing Sheet No.	Comm Group No.	Splice Detail Sheet No.	Signal Plan Sheet No.	Reuse Existing Signal Cabinet Foundation	Rotate Existing Signal Cabinet Orientation 180 Degrees	Modify Existing Signal Cabinet Foundation	Remove Existing Signal Cabinet Foundation	Install New Signal Cabinet Foundation (Same Quadrant)	Install New Signal Cabinet Foundation (Different Quadrant)	Remove Existing Local Controller	Install New 2070LX Local Controller	Reuse Existing Video Detection Equipment	Install New Emergency Vehicle Preemption Equipment	Reuse Existing Overhead Preemption Equipment	Reuse Existing Railroad Preemption Equipment
1	05-0006		EXISTING	Durham-Chapel Hill Blvd.	Tower Dr.		257	C36	355	402	1					1	1					
2	05-0009		EXISTING	Morgan St.	Morris St.	YES	452	A10	-	2	1					1	1		1			
3	05-0052		EXISTING	MLK Jr. Pkwy.	Archdale Dr.		233	C35	347	3	1					1	1					
4	05-0108		EXISTING	Horton Rd.	Stadium Dr.		547	A12	148	4	1					1	1					
5	05-0123		EXISTING	Guess Rd.	I-85 SB Ramp		492	A08	98	5	1					1	1					
6	05-0124		EXISTING	Guess Rd.	I-85 NB Ramp		492	A08	99	6	1					1	1					
7	05-0125		EXISTING	Cheek Rd.	Hardee St.		469	A07	93	7		1				1	1					
8	05-0130		EXISTING	Swift Av.	NC 147 NB Ramp	YES	440	A09	116	8	1					1	1	1				
9	05-0132		EXISTING	Chapel Hill St.	NC 147 SB Ramp	YES	450	A11	132	9	1					1	1		1			
10	05-0133		EXISTING	Cole Mill Rd.	Hillsborough Rd.		423	A02	24	10	1					1	1		1			
11	05-0135		EXISTING	Avondale Dr.	Foushee St.		460	A06	75	11	1					1	1					
12	05-0138		EXISTING	Holloway St.	Junction Rd.		345	B16	160	12	1					1	1					1
13	05-0143		EXISTING	Durham-Chapel Hill Blvd.	Westgate Dr.		256	C36	356	13	1					1	1					
14	05-0145		EXISTING	Duke St.	Fairfield St.		528	A04	47	14	1					1	1		1			
15	05-0146		EXISTING	Academy Rd.	University Dr.		295	C38	386	15					1	1	1					
16	05-0147		EXISTING	Alston Av.	Dowd St.		474	A07	88	16	1					1	1					
17	05-0193		EXISTING	Foster St.	Morgan St.	YES	453	A10	128	17	1					1	1		1			
18	05-0206		EXISTING	Morgan St.	Rigsbee Av.	YES	453	A10	128	18	1					1	1		1			
19	05-0227		EXISTING	TW Alexander Dr.	Cornwallis Rd.		179	B17	167	19	1					1	1					
20	05-0228		EXISTING	Alston Av.	Taylor St.	YES	365	B23	258	20	1					1	1		1			
21	05-0234		EXISTING	Cornwallis Rd.	West Institute Dr.	YES	189	B18	189	21	1					1	1					
22	05-0238		EXISTING	Duke St.	Corporation St.	YES	439	A11	135	22	1					1	1					
23	05-0250		EXISTING	Great Jones St.	Main St.	YES	451	A11	-	23	1					1	1					
24	05-0251		EXISTING	Erwin Rd.	Research Dr. / Douglas St.		325	A01	10	24	1					1	1					
25	05-0254		EXISTING	Hillsborough Rd.	Oakland Av. / Trent Dr.	YES	430	A03	29	25				1		1	1		1			
26	05-0265		EXISTING	Hillsborough Rd.	LaSalle St.		425	A02	27	26	1					1	1		1			
27	05-0271		EXISTING	Holloway St.	Raynor St.		343	B16	163	27	1			1		1	1	1				
28	05-0274		EXISTING	Cornwallis Rd.	US 15-501 Bypass NB Ramp		262	C36	359	28	1					1	1					
29	05-0275		EXISTING	Alston Av.	Linwood Av.	YES	368	B23	252	29				1		1	1		1			
30	05-0276		EXISTING	Hillsborough Rd.	US 15-501 NB Ramp		424	A02	26	30	1					1	1		1			
31	05-0277		EXISTING	Fayetteville St.	Cornwallis Rd. (North)		385	B21	238	31				1		1	1		1			
32	05-0278		EXISTING	Cameron Blvd.	Science Dr.		269	A01	4	32				1		1	1					
33	05-0279		EXISTING	Chapel Hill Rd.	Lakewood Shopping Center	YES	314	C38	392	33				1		1	1		1			
34	05-0280		EXISTING	Liberty St.	Miami Blvd.		375	B16	163	34				1		1	1		1			
35	05-0284		EXISTING	Alston Av.	NC 147 NB Ramp	YES	367	B23	255	35	1					1	1		1			
36	05-0289		EXISTING	NC 55	Cornwallis Rd.		94	B21	228	36	1					1	1		1			
37	05-0290		EXISTING	Chapel Hill St.	Mangum St.	YES	454	A10	130	37	1					1	1		1			
38	05-0294		EXISTING	Hilldale Rd.	I-85 NB Ramp		445	A03	34	38	1					1	1	1				
39	05-0301		EXISTING	Carver St.	Duke St.		530	A04	49	39						1	1		1			
40	05-0302		EXISTING	Duke St.	Leon St.		534	A04	55	40		1				1	1					
41	05-0304		EXISTING	Roxboro St.	Murray Av./Bonair Ave.		558	A05	70	41	1					1	1		1			
42	05-0307		EXISTING	Club Blvd.	Roxboro St.		539	A05	72	42	1					1	1		1			
43	05-0308		EXISTING	Avondale Dr.	Roxboro St.		461	A06	73	43	1					1	1					
44	05-0311		EXISTING	Alston Av.	Geer St.		465	A07	89	44				1		1	1					
45	05-0317		EXISTING	Alston Av.	Lawson St.		369	B23	251	45	1					1	1		1			
46	05-0318		EXISTING	Fayetteville St.	Lawson St.	YES	380	C31	289	46	1					1	1		1			
47	05-0319		EXISTING	Fayetteville St.	Umstead St.	YES	378	C31	291	47				1		1	1		1			
48	05-0321		EXISTING	Fayetteville St.	Pettigrew St.	YES	377	C31	293	48	1					1	1		1			1
49	05-0324		EXISTING	Duke St.	University Dr.	YES	319	C37	372	49	1					1	1		1			
50	05-0325		EXISTING	Roxboro St.	Lakewood Av.		333	C37	376	50	1					1	1					

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CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM
SUMMARY OF WORK BY INTERSECTION

DIVISION 05 DURHAM COUNTY

PLAN DATE: DEC 2018 REVIEWED BY:

PREPARED BY: J. CROSS REVIEWED BY: K. SMITH

REVISIONS	INIT.	DATE

SCALE: 0

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 030472
 KEVIN W. SMITH

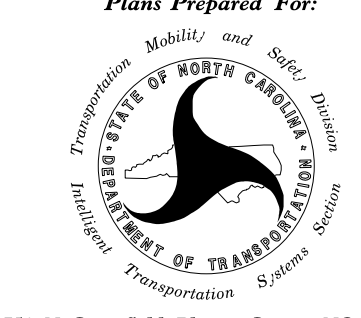
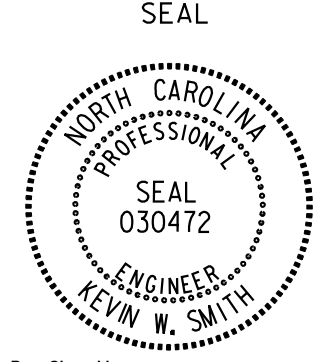
DocuSigned by:
 Kevin W. Smith 12/21/2018

CADD Filename:

Reference										Electrical Service						Conduit and Risers									
No.	State ID	City ID	Status	Street 1	Street 2	Located Within Designated Historic District	Cable Routing Sheet No.	Comm Group No.	Splice Detail Sheet No.	Signal Plan Sheet No.	66	65	65	-	-	-	12	19	19	23	22	21	25	21	24
											Install New Electrical Service	Modify Existing Electrical Service (New Disconnect)	Modify Existing Electrical Service (New Meter)	Remove Existing Electrical Service	Install New Base Adapter with Electrical Combination Panel	Reuse Existing Base Adapter with Electrical Combination Panel	Install New 2" Riser with Heat Shrink Tubing	Reuse Existing Riser with Heat Shrink Tubing	Reuse Existing Metal Pole Riser Raceway	Install New Riser Entrance into Cabinet Foundation	Install New Conduit Entrance into Cabinet Foundation	Reuse Existing Conduit Entrance into Cabinet Foundation	Install New Riser into Pole Mounted Cabinet	Reuse Existing Conduit into Pole Mounted Cabinet	Install New Conduit into Pole Mounted Cabinet
1	05-0006		EXISTING	Durham-Chapel Hill Blvd.	Tower Dr.		257	C36	355	402								1							
2	05-0009		EXISTING	Morgan St.	Morris St.	YES	452	A10	-	2						1									
3	05-0052		EXISTING	MLK Jr. Pkwy.	Archdale Dr.		233	C35	347	3													1		
4	05-0108		EXISTING	Horton Rd.	Stadium Dr.		547	A12	148	4													1		
5	05-0123		EXISTING	Guess Rd.	I-85 SB Ramp		492	A08	98	5												1			
6	05-0124		EXISTING	Guess Rd.	I-85 NB Ramp		492	A08	99	6								1							
7	05-0125		EXISTING	Cheek Rd.	Hardee St.		469	A07	93	7								1							
8	05-0130		EXISTING	Swift Av.	NC 147 NB Ramp	YES	440	A09	116	8												1			
9	05-0132		EXISTING	Chapel Hill St.	NC 147 SB Ramp	YES	450	A11	132	9								1							
10	05-0133		EXISTING	Cole Mill Rd.	Hillsborough Rd.		423	A02	24	10								1							
11	05-0135		EXISTING	Avondale Dr.	Foushee St.		460	A06	75	11													1		
12	05-0138		EXISTING	Holloway St.	Junction Rd.		345	B16	160	12								1							
13	05-0143		EXISTING	Durham-Chapel Hill Blvd.	Westgate Dr.		256	C36	356	13								1							
14	05-0145		EXISTING	Duke St.	Fairfield St.		528	A04	47	14								1							
15	05-0146		EXISTING	Academy Rd.	University Dr.		295	C38	386	15	1			1						1					
16	05-0147		EXISTING	Alston Av.	Dowd St.		474	A07	88	16								1							
17	05-0193		EXISTING	Foster St.	Morgan St.	YES	453	A10	128	17													1		
18	05-0206		EXISTING	Morgan St.	Rigsbee Av.	YES	453	A10	128	18													1		
19	05-0227		EXISTING	TW Alexander Dr.	Cornwallis Rd.		179	B17	167	19													1		
20	05-0228		EXISTING	Alston Av.	Taylor St.	YES	365	B23	258	20								1					1		
21	05-0234		EXISTING	Cornwallis Rd.	West Institute Dr.	YES	189	B18	189	21								1					1		
22	05-0238		EXISTING	Duke St.	Corporation St.	YES	439	A11	135	22							1				1				
23	05-0250		EXISTING	Great Jones St.	Main St.	YES	451	A11	-	23															
24	05-0251		EXISTING	Erwin Rd.	Research Dr. / Douglas St.		325	A01	10	24								1							
25	05-0254		EXISTING	Hillsborough Rd.	Oakland Av. / Trent Dr.	YES	430	A03	29	25												1			
26	05-0265		EXISTING	Hillsborough Rd.	LaSalle St.		425	A02	27	26								1							
27	05-0271		EXISTING	Holloway St.	Raynor St.		343	B16	163	27										1					
28	05-0274		EXISTING	Cornwallis Rd.	US 15-501 Bypass NB Ramp		262	C36	359	28															
29	05-0275		EXISTING	Alston Av.	Linwood Av.	YES	368	B23	252	29								1					1		
30	05-0276		EXISTING	Hillsborough Rd.	US 15-501 NB Ramp		424	A02	26	30													1		
31	05-0277		EXISTING	Fayetteville St.	Cornwallis Rd. (North)		385	B21	238	31										1					
32	05-0278		EXISTING	Cameron Blvd.	Science Dr.		269	A01	4	32												1			
33	05-0279		EXISTING	Chapel Hill Rd.	Lakewood Shopping Center	YES	314	C38	392	33															
34	05-0280		EXISTING	Liberty St.	Miami Blvd.		375	B16	163	34															
35	05-0284		EXISTING	Alston Av.	NC 147 NB Ramp	YES	367	B23	255	35								1					1		
36	05-0289		EXISTING	NC 55	Cornwallis Rd.		94	B21	228	36								1					1		
37	05-0290		EXISTING	Chapel Hill St.	Mangum St.	YES	454	A10	130	37													1		
38	05-0294		EXISTING	Hillandale Rd.	I-85 NB Ramp		445	A03	34	38								1					1		
39	05-0301		EXISTING	Caner St.	Duke St.		530	A04	49	39								1							
40	05-0302		EXISTING	Duke St.	Leon St.		534	A04	55	40								1							
41	05-0304		EXISTING	Roxboro St.	Murray Av./Bonair Ave.		558	A05	70	41															
42	05-0307		EXISTING	Club Blvd.	Roxboro St.		539	A05	72	42															
43	05-0308		EXISTING	Avondale Dr.	Roxboro St.		461	A06	73	43															
44	05-0311		EXISTING	Alston Av.	Geer St.		465	A07	89	44															
45	05-0317		EXISTING	Alston Av.	Lawson St.		369	B23	251	45													1		
46	05-0318		EXISTING	Fayetteville St.	Lawson St.	YES	380	C31	289	46								1							
47	05-0319		EXISTING	Fayetteville St.	Umstead St.	YES	378	C31	291	47															
48	05-0321		EXISTING	Fayetteville St.	Pettigrew St.	YES	377	C31	293	48													1		
49	05-0324		EXISTING	Duke St.	University Dr.	YES	319	C37	372	49															
50	05-0325		EXISTING	Roxboro St.	Lakewood Av.		333	C37	376	50								1							

12/20/2018 K:\RAL_TPTD_ITS_01036410 - Durham Signal System\Plans\DeTalis_U-5968_ITS_posh_27(sowl).dgn

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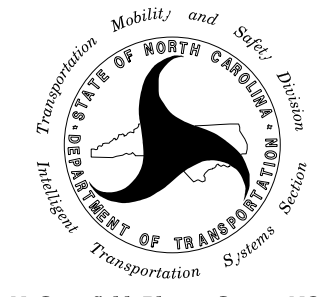
	CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM SUMMARY OF WORK BY INTERSECTION		
	DIVISION 05 DURHAM COUNTY		
PLAN DATE: DEC 2018	REVIEWED BY:	PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH
REVISIONS	INIT.	DATE	Documented by: <u>Kevin W. Smith</u> 12/21/2018 SIGNATURE DATE CADD File name:

Reference											Fiber Communications							Wireless Communications				
No.	State ID	City ID	Status	Street 1	Street 2	Located Within Designated Historic District	Cable Routing Sheet No.	Comm Group No.	Splice Detail Sheet No.	Signal Plan Sheet No.	Remove Existing Fiber Optic Drop Cable	Install New Fiber Optic Drop Cable	Remove Existing Fiber Optic Interconnect Center	Install New Fiber Optic Interconnect Center	Remove Existing Fiber Optic Data Transceiver	Remove Existing Fiber Optic Video Transceiver	Remove Existing Analog CCTV Camera and Equipment	Install New Field Ethernet Switch	Remove Existing Serial Wireless Equipment	Install New Ethernet Wireless Equipment	Remove Existing Dial-Up Modem	Install New Cell Modem
1	05-0006		EXISTING	Durham-Chapel Hill Blvd.	Tower Dr.		257	C36	355	402	1	1	1	1	1		1					
2	05-0009		EXISTING	Morgan St.	Morris St.	YES	452	A10	-	2			1		1			1		1		
3	05-0052		EXISTING	MLK Jr. Pkwy.	Archdale Dr.		233	C35	347	3			1		1			1				
4	05-0108		EXISTING	Horton Rd.	Stadium Dr.		547	A12	148	4	1	1	1	1	1			1				
5	05-0123		EXISTING	Guess Rd.	I-85 SB Ramp		492	A08	98	5			1		1			1				
6	05-0124		EXISTING	Guess Rd.	I-85 NB Ramp		492	A08	99	6	1	1	1	1	1			1				
7	05-0125		EXISTING	Cheek Rd.	Hardee St.		469	A07	93	7	1	1	1	1	1			1				
8	05-0130		EXISTING	Swift Av.	NC 147 NB Ramp	YES	440	A09	116	8			1		1			1				
9	05-0132		EXISTING	Chapel Hill St.	NC 147 SB Ramp	YES	450	A11	132	9	1	1	1	1	1			1				
10	05-0133		EXISTING	Cole Mill Rd.	Hillsborough Rd.		423	A02	24	10	1	1	1	1	1			1				
11	05-0135		EXISTING	Avondale Dr.	Foushee St.		460	A06	75	11	1	1	1	1	1			1				
12	05-0138		EXISTING	Holloway St.	Junction Rd.		345	B16	160	12	1	1	1	1	1			1				
13	05-0143		EXISTING	Durham-Chapel Hill Blvd.	Westgate Dr.		256	C36	356	13	1	1	1	1	1			1				
14	05-0145		EXISTING	Duke St.	Fairfield St.		528	A04	47	14	1	1	1	1	1			1				
15	05-0146		EXISTING	Academy Rd.	University Dr.		295	C38	386	15			1		1			1				
16	05-0147		EXISTING	Alston Av.	Dowd St.		474	A07	88	16	1	1	1	1	1			1				
17	05-0193		EXISTING	Foster St.	Morgan St.	YES	453	A10	128	17	1	1	1	1	1			1		1		
18	05-0206		EXISTING	Morgan St.	Rigsbee Av.	YES	453	A10	128	18	1	1	1	1	1			1		1		
19	05-0227		EXISTING	TW Alexander Dr.	Cornwallis Rd.		179	B17	167	19	1	1	1	1	1			1				
20	05-0228		EXISTING	Alston Av.	Taylor St.	YES	365	B23	258	20	1	1	1	1	1			1				
21	05-0234		EXISTING	Cornwallis Rd.	West Institute Dr.	YES	189	B18	189	21	1	1	1	1	1			1				
22	05-0238		EXISTING	Duke St.	Corporation St.	YES	439	A11	135	22			1		1			1				
23	05-0250		EXISTING	Great Jones St.	Main St.	YES	451	A11	-	23			1		1			1		1		
24	05-0251		EXISTING	Erwin Rd.	Research Dr. / Douglas St.		325	A01	10	24	1	1	1	1	1			1				
25	05-0254		EXISTING	Hillsborough Rd.	Oakland Av. / Trent Dr.	YES	430	A03	29	25			1		1			1				
26	05-0265		EXISTING	Hillsborough Rd.	LaSalle St.		425	A02	27	26	1	1	1	1	1			1		1		
27	05-0271		EXISTING	Holloway St.	Raynor St.		343	B16	163	27			1		1			1				
28	05-0274		EXISTING	Cornwallis Rd.	US 15-501 Bypass NB Ramp		262	C36	359	28			1		1			1				
29	05-0275		EXISTING	Alston Av.	Linwood Av.	YES	368	B23	252	29			1		1			1				
30	05-0276		EXISTING	Hillsborough Rd.	US 15-501 NB Ramp		424	A02	26	30	1	1	1	1	1			1				
31	05-0277		EXISTING	Fayetteville St.	Cornwallis Rd. (North)		385	B21	238	31			1		1			1				
32	05-0278		EXISTING	Cameron Blvd.	Science Dr.		269	A01	4	32			1		1			1				
33	05-0279		EXISTING	Chapel Hill Rd.	Lakewood Shopping Center	YES	314	C38	392	33			1		1			1				
34	05-0280		EXISTING	Liberty St.	Miami Blvd.		375	B16	163	34			1		1			1				
35	05-0284		EXISTING	Alston Av.	NC 147 NB Ramp	YES	367	B23	255	35	1	1	1	1	1			1				
36	05-0289		EXISTING	NC 55	Cornwallis Rd.		94	B21	228	36	1	1	1	1	1			1				
37	05-0290		EXISTING	Chapel Hill St.	Mangum St.	YES	454	A10	130	37			1		1			1				
38	05-0294		EXISTING	Hillandale Rd.	I-85 NB Ramp		445	A03	34	38	1	1	1	1	1			1				
39	05-0301		EXISTING	Carver St.	Duke St.		530	A04	49	39	1	1	1	1	1			1				
40	05-0302		EXISTING	Duke St.	Leon St.		534	A04	55	40	1	1	1	1	1			1				
41	05-0304		EXISTING	Roxboro St.	Murray Av./Bonair Ave.		558	A05	70	41	1	1	1	1	1			1				
42	05-0307		EXISTING	Club Blvd.	Roxboro St.		539	A05	72	42			1		1			1				
43	05-0308		EXISTING	Avondale Dr.	Roxboro St.		461	A06	73	43	1	1	1	1	1			1				
44	05-0311		EXISTING	Alston Av.	Geer St.		465	A07	89	44			1		1			1				
45	05-0317		EXISTING	Alston Av.	Lawson St.		369	B23	251	45			1		1			1				
46	05-0318		EXISTING	Fayetteville St.	Lawson St.	YES	380	C31	289	46	1	1	1	1	1			1				
47	05-0319		EXISTING	Fayetteville St.	Umstead St.	YES	378	C31	291	47			1		1			1				
48	05-0321		EXISTING	Fayetteville St.	Pettigrew St.	YES	377	C31	293	48			1		1			1				
49	05-0324		EXISTING	Duke St.	University Dr.	YES	319	C37	372	49	1	1	1	1	1			1				
50	05-0325		EXISTING	Roxboro St.	Lakewood Av.		333	C37	376	50	1	1	1	1	1			1				

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Plans Prepared For:
 CITY OF DURHAM
 Department of Transportation
 Mobility and Safety Division



250 N. Greenfield Place, Garner, NC 27529

SCALE
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CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM	
SUMMARY OF WORK BY INTERSECTION	
DIVISION 05	DURHAM COUNTY
PLAN DATE: DEC 2018	REVIEWED BY:
PREPARED BY: J. CROSS	REVIEWED BY: K. SMITH
REVISIONS	INIT. DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 030472
 KEVIN W. SMITH

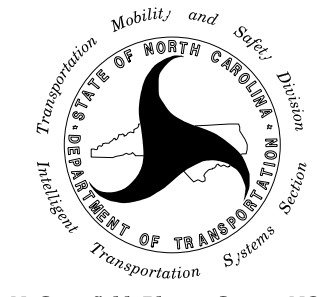
DocuSigned by: Kevin W. Smith 12/21/2018
 SIGNATURE DATE
 CADD File name:

Reference											Signal Cabinets											
No.	State ID	City ID	Status	Street 1	Street 2	Located Within Designated Historic District	Cable Routing Sheet No.	Comm Group No.	Splice Detail Sheet No.	Signal Plan Sheet No.	Remove Existing Base Mounted Cabinet	Remove Existing Pole Mounted Cabinet	Install New Base Mounted 332 Cabinet	Install New Base Mounted 332 Cabinet with Aux File	Install New Pole Mounted 336S Cabinet	Install New Pole Mounted 336S Cabinet with Aux File	Install New Base Mounted 336S Cabinet	Install New Base Mounted 336S Cabinet with Aux File	Salvage Existing Painted Cabinet	Install Cabinet Base Adapter	Install Cabinet Base Extender	Install Terminal Splice Box
51	05-0330		EXISTING	Roxboro St.	Dowd St. / Broadway St.	YES	455	A06	83	51		1	1								1	1
52	05-0332		EXISTING	Roxboro St.	Trinity Av.	YES	456	A06	81	52		1						1			1	1
53	05-0333		EXISTING	Holloway St.	Adams St.		346	B16	159	405	1		1								1	
54	05-0335		EXISTING	Gregson St.	Lamond St.	YES	439	A11	134	53	1		1								1	
55	05-0336		EXISTING	Old Chapel Hill Rd.	University Dr.		214	C35	340	54	1			1							1	
56	05-0341		EXISTING	Chapel Hill St.	Duke St.	YES	451	A11	137	55	1							1			1	
57	05-0342		EXISTING	Chapel Hill St.	Gregson St.	YES	450	A11	133	56	1							1			1	
58	05-0344		EXISTING	Chapel Hill St.	Buchanan Blvd.	YES	449	A11	131	57		1		1							1	1
59	05-0345		EXISTING	Chapel Hill St.	Kent St.	YES	449	A11	131	58	1			1							1	
60	05-0346		EXISTING	Morehead Av.	Kent St.		279	C37	366	59	1			1							1	
61	05-0347		EXISTING	Club Blvd.	Duke St.	YES	498	A08	105	60	1			1							1	
62	05-0348		EXISTING	Duke St.	Markham Av.	YES	506	A10	124	61		1						1			1	1
63	05-0349		EXISTING	Duke St.	Trinity Av.	YES	507	A10	125	62		1		1							1	1
64	05-0356		EXISTING	Main St.	Broad St. / Swift Av.	YES	434	A09	117	63	1			1							1	
65	05-0357		EXISTING	Ninth St.	Main St. / Erwin Rd.	YES	434	A09	115	64	1							1			1	
66	05-0359		EXISTING	Erwin Rd.	Anderson St.	YES	329	A01	15	65	1			1							1	
67	05-0360		EXISTING	Erwin Rd.	Trent Dr.		327	A01	14	66	1			1							1	
68	05-0361		EXISTING	Davis Dr.	Select Dr.		108	B19	199	67	1			1							1	
69	05-0362		EXISTING	Hillsborough Rd.	Ninth St.	YES	431	A09	111	68	1							1			1	
70	05-0363		EXISTING	Guess Rd.	Broad St. / Sunset Av.		494	A08	101	69	1			1							1	
71	05-0364		EXISTING	Broad St.	Club Blvd.	YES	501	A08	108	70	1			1							1	
72	05-0365		EXISTING	Broad St.	Markham Av.	YES	433	A09	113	71		1		1							1	1
73	05-0376		EXISTING	Miami Blvd.	Holloway St.		343	B16	162	72	1			1							1	
74	05-0377		EXISTING	Angier Av.	Driver St.	YES	392	B23	248	73	1			1							1	
75	05-0381		EXISTING	Blackwell St.	Pettigrew St.	YES	361	B25	281	74	1			1							1	
76	05-0382		EXISTING	Chapel Hill St.	Pettigrew St.	YES	451	A11	138	75	1			1							1	
77	05-0383		EXISTING	Roxboro St.	Latta Rd. / Infinity Rd.		519	A04	42	76	1			1							1	
78	05-0384		EXISTING	Durham-Chapel Hill Blvd.	Garrett Rd.		225	C34	337	77	1			1							1	
79	05-0385		EXISTING	Duke St.	Horton Rd.		527	A04	46	78	1			1							1	
80	05-0386		EXISTING	Durham-Chapel Hill Blvd.	University Dr.		301	C38	382	79		1		1							1	1
81	05-0388		EXISTING	Erwin Rd.	Fulton St.		327	A01	12	80	1			1							1	
82	05-0389		EXISTING	NC 98 (Wake Forest Hwy)	Mineral Springs Rd.		353	B16	156	81	1			1							1	
83	05-0390		EXISTING	NC 54	NC 55		25	B20	218	82	1			1							1	
84	05-0393		EXISTING	US 70 (Miami Blvd.)	Pleasant Dr.		130	B24	277	83	1			1							1	
85	05-0394		EXISTING	S. Miami Blvd.	Angier Av.		136	B17	182	84	1			1							1	
86	05-0395		EXISTING	NC 55	Burlington Av.		371	B23	249	85	1			1							1	
87	05-0396		EXISTING	Carver St.	Guess Rd.		489	A03	38	86	1			1							1	
88	05-0397		EXISTING	Miami Blvd.	Geer St.		467	A07	90	87	1			1							1	
89	05-0398		EXISTING	Roxboro St.	Olympic Av.		555	A05	64	88	1			1							1	
90	05-0401		EXISTING	Cornwallis Rd.	Roxboro St.		304	C38	381	89	1			1							1	
91	05-0402		EXISTING	Fayetteville St.	Pilot St.		384	C31	285	90		1		1							1	1
92	05-0404		EXISTING	Fayetteville St.	Brant St.	YES	380	C31	289	91		1						1			1	1
93	05-0405		EXISTING	Academy Rd.	Woodburn Rd.		309	C38	389	92		1						1			1	1
94	05-0406		EXISTING	Fayetteville St.	Burlington Av.		382	C31	287	93		1			1						1	
95	05-0407		EXISTING	Academy Rd.	Cornwallis Rd.		308	C38	389	94	1			1							1	
96	05-0408		EXISTING	Chapel Hill Rd.	Cornwallis Rd.	YES	310	C38	390	95	1			1							1	
97	05-0409		EXISTING	Chapel Hill Rd.	Anderson St.		312	C38	391	96		1		1							1	1
98	05-0410		EXISTING	Duke St.	Murray Av.		533	A04	54	97		1		1							1	1
99	05-0411		EXISTING	Gregson St.	Northgate Mall Entrance	YES	497	A08	106	98	1			1							1	
100	05-0412		EXISTING	Morehead Av.	Vickers St.	YES	280	C37	367	99	1						1				1	

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Plans Prepared For:



250 N. Greenfield Place, Garner, NC 27529

CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM

SUMMARY OF WORK BY INTERSECTION

DIVISION 05 DURHAM COUNTY

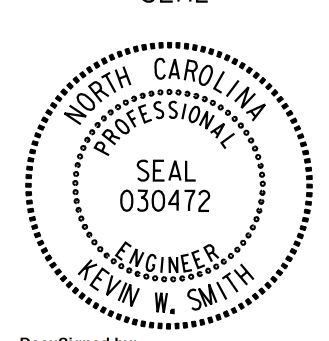
PLAN DATE: DEC 2018 REVIEWED BY:

PREPARED BY: J. CROSS REVIEWED BY: K. SMITH

REVISIONS	INIT.	DATE

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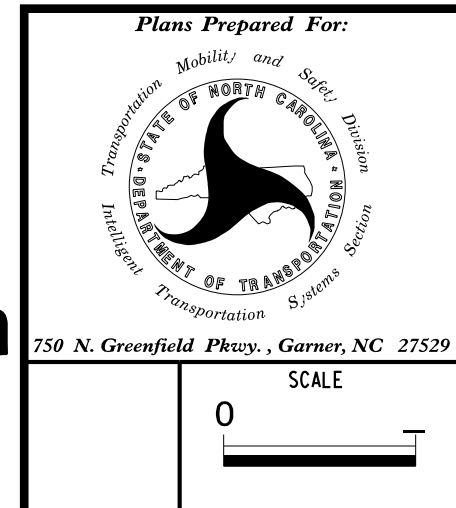
DocuSign by: Kevin W. Smith 12/21/2018

CADD Filename: _____

Reference											Cabinet Foundations						Controllers		Preemption			
No.	State ID	City ID	Status	Street 1	Street 2	Located Within Designated Historic District	Cable Routing Sheet No.	Comm Group No.	Splice Detail Sheet No.	Signal Plan Sheet No.	Reuse Existing Signal Cabinet Foundation	Rotate Existing Signal Cabinet Orientation 180 Degrees	Modify Existing Signal Cabinet Foundation	Remove Existing Signal Cabinet Foundation	Install New Signal Cabinet Foundation (Same Quadrant)	Install New Signal Cabinet Foundation (Different Quadrant)	Remove Existing Local Controller	Install New 2070LX Local Controller	Reuse Existing Video Detection Equipment	Install New Emergency Vehicle Preemption Equipment	Reuse Existing Overhead Preemption Equipment	Reuse Existing Railroad Preemption Equipment
51	05-0330		EXISTING	Roxboro St.	Dowd St. / Broadway St.	YES	455	A06	83	51					1	1	1			1		
52	05-0332		EXISTING	Roxboro St.	Trinity Av.	YES	456	A06	81	52					1	1	1			1		
53	05-0333		EXISTING	Holloway St.	Adams St.		346	B16	159	405	1						1		1			
54	05-0335		EXISTING	Gregson St.	Lamond St.	YES	439	A11	134	53	1						1		1			
55	05-0336		EXISTING	Old Chapel Hill Rd.	University Dr.		214	C35	340	54	1						1		1			
56	05-0341		EXISTING	Chapel Hill St.	Duke St.	YES	451	A11	137	55	1						1		1			
57	05-0342		EXISTING	Chapel Hill St.	Gregson St.	YES	450	A11	133	56	1						1		1			
58	05-0344		EXISTING	Chapel Hill St.	Buchanan Blvd.	YES	449	A11	131	57					1		1		1			
59	05-0345		EXISTING	Chapel Hill St.	Kent St.	YES	449	A11	131	58	1						1		1			
60	05-0346		EXISTING	Morehead Av.	Kent St.		279	C37	366	59	1						1		1			
61	05-0347		EXISTING	Club Blvd.	Duke St.	YES	498	A08	105	60		1	1				1		1			
62	05-0348		EXISTING	Duke St.	Markham Av.	YES	506	A10	124	61				1			1		1			
63	05-0349		EXISTING	Duke St.	Trinity Av.	YES	507	A10	125	62				1			1		1			
64	05-0356		EXISTING	Main St.	Broad St. / Swift Av.	YES	434	A09	117	63	1						1		1			1
65	05-0357		EXISTING	Ninth St.	Main St. / Erwin Rd.	YES	434	A09	115	64	1						1		1			
66	05-0359		EXISTING	Erwin Rd.	Anderson St.	YES	329	A01	15	65	1						1		1			
67	05-0360		EXISTING	Erwin Rd.	Trent Dr.		327	A01	14	66	1						1		1			
68	05-0361		EXISTING	Davis Dr.	Select Dr.		108	B19	199	67	1						1		1			
69	05-0362		EXISTING	Hillsborough Rd.	Ninth St.	YES	431	A09	111	68	1						1		1			
70	05-0363		EXISTING	Guess Rd.	Broad St. / Sunset Av.		494	A08	101	69	1						1		1			
71	05-0364		EXISTING	Broad St.	Club Blvd.	YES	501	A08	108	70	1						1		1			
72	05-0365		EXISTING	Broad St.	Markham Av.	YES	433	A09	113	71					1		1		1			
73	05-0376		EXISTING	Miami Blvd.	Holloway St.		343	B16	162	72	1						1		1			
74	05-0377		EXISTING	Angier Av.	Driver St.	YES	392	B23	248	73	1						1		1			
75	05-0381		EXISTING	Blackwell St.	Pettigrew St.	YES	361	B25	281	74	1						1		1			1
76	05-0382		EXISTING	Chapel Hill St.	Pettigrew St.	YES	451	A11	138	75	1						1		1			
77	05-0383		EXISTING	Roxboro St.	Latta Rd. / Infinity Rd.		519	A04	42	76	1						1		1			
78	05-0384		EXISTING	Durham-Chapel Hill Blvd.	Garrett Rd.		225	C34	337	77	1						1		1			
79	05-0385		EXISTING	Duke St.	Horton Rd.		527	A04	46	78	1						1		1			
80	05-0386		EXISTING	Durham-Chapel Hill Blvd.	University Dr.		301	C38	382	79				1			1		1			
81	05-0388		EXISTING	Erwin Rd.	Fulton St.		327	A01	12	80	1						1		1			
82	05-0389		EXISTING	NC 98 (Wake Forest Hwy)	Mineral Springs Rd.		353	B16	156	81	1						1		1			
83	05-0390		EXISTING	NC 54	NC 55		25	B20	218	82	1						1		1			
84	05-0393		EXISTING	US 70 (Miami Blvd.)	Pleasant Dr.		130	B24	277	83	1						1		1			
85	05-0394		EXISTING	S. Miami Blvd.	Angier Av.		136	B17	182	84			1				1		1			
86	05-0395		EXISTING	NC 55	Burlington Av.		371	B23	249	85	1						1		1			
87	05-0396		EXISTING	Carver St.	Guess Rd.		489	A03	38	86	1						1		1			
88	05-0397		EXISTING	Miami Blvd.	Geer St.		467	A07	90	87	1						1		1			
89	05-0398		EXISTING	Roxboro St.	Olympic Av.		555	A05	64	88	1						1		1			
90	05-0401		EXISTING	Cornwallis Rd.	Roxboro St.		304	C38	381	89	1						1		1			
91	05-0402		EXISTING	Fayetteville St.	Pilot St.		384	C31	285	90				1			1		1			
92	05-0404		EXISTING	Fayetteville St.	Brant St.	YES	380	C31	289	91				1			1		1			
93	05-0405		EXISTING	Academy Rd.	Woodburn Rd.		309	C38	389	92				1			1		1			
94	05-0406		EXISTING	Fayetteville St.	Burlington Av.		382	C31	287	93							1		1			
95	05-0407		EXISTING	Academy Rd.	Cornwallis Rd.		308	C38	389	94	1						1		1			
96	05-0408		EXISTING	Chapel Hill Rd.	Cornwallis Rd.	YES	310	C38	390	95	1						1		1			
97	05-0409		EXISTING	Chapel Hill Rd.	Anderson St.		312	C38	391	96				1			1		1			
98	05-0410		EXISTING	Duke St.	Murray Av.		533	A04	54	97					1		1		1			
99	05-0411		EXISTING	Gregson St.	Northgate Mall Entrance	YES	497	A08	106	98	1						1		1			
100	05-0412		EXISTING	Morehead Av.	Vickers St.	YES	280	C37	367	99			1				1		1			

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CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM
SUMMARY OF WORK BY INTERSECTION

DIVISION 05 DURHAM COUNTY

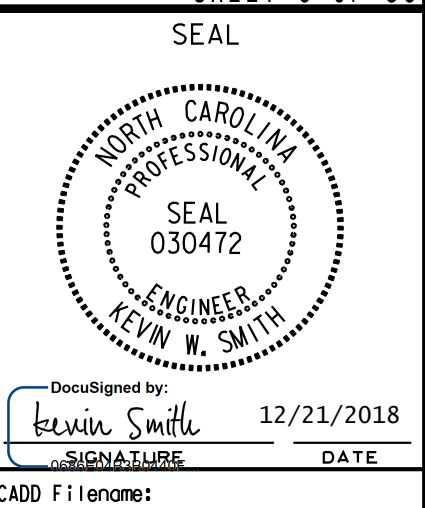
PLAN DATE: DEC 2018 REVIEWED BY: J. CROSS

PREPARED BY: J. CROSS REVIEWED BY: K. SMITH

REVISIONS	INIT.	DATE

DocuSigned by: *Kevin W. Smith* 12/21/2018

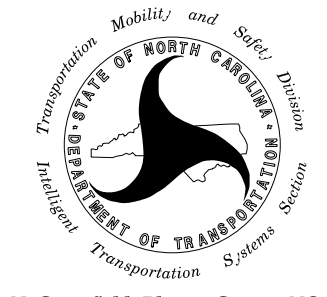
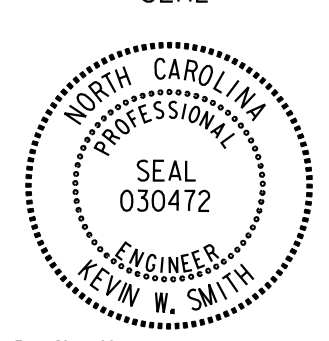
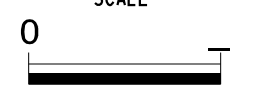
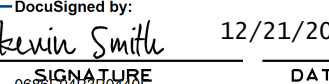
CADD Filename: _____



Reference										Electrical Service						Conduit and Risers													
No.	State ID	City ID	Status	Street 1	Street 2	Located Within Designated Historic District	Cable Routing Sheet No.	Comm Group No.	Splice Detail Sheet No.	Signal Plan Sheet No.	Install New Electrical Service	66	65	Modify Existing Electrical Service (New Disconnect)	65	Remove Existing Electrical Service	-	Install New Base Adapter with Electrical Combination Panel	Reuse Existing Base Adapter with Electrical Combination Panel	12	19	19	23	22	21	25	21	24	
51	05-0330		EXISTING	Roxboro St.	Dowd St. / Broadway St.	YES	455	A06	83	51	1				1					1			1						
52	05-0332		EXISTING	Roxboro St.	Trinity Av.	YES	456	A06	81	52										1			1						
53	05-0333		EXISTING	Holloway St.	Adams St.		346	B16	159	405											1								
54	05-0335		EXISTING	Gregson St.	Lamond St.	YES	439	A11	134	53															1				
55	05-0336		EXISTING	Old Chapel Hill Rd.	University Dr.		214	C35	340	54											1								
56	05-0341		EXISTING	Chapel Hill St.	Duke St.	YES	451	A11	137	55											1								
57	05-0342		EXISTING	Chapel Hill St.	Gregson St.	YES	450	A11	133	56											1								
58	05-0344		EXISTING	Chapel Hill St.	Buchanan Blvd.	YES	449	A11	131	57	1				1					1			1						
59	05-0345		EXISTING	Chapel Hill St.	Kent St.	YES	449	A11	131	58											1								
60	05-0346		EXISTING	Morehead Av.	Kent St.		279	C37	366	59											1								
61	05-0347		EXISTING	Club Blvd.	Duke St.	YES	498	A08	105	60											1								
62	05-0348		EXISTING	Duke St.	Markham Av.	YES	506	A10	124	61										1			1						
63	05-0349		EXISTING	Duke St.	Trinity Av.	YES	507	A10	125	62										1			1						
64	05-0356		EXISTING	Main St.	Broad St. / Swift Av.	YES	434	A09	117	63										1			1						
65	05-0357		EXISTING	Ninth St.	Main St. / Erwin Rd.	YES	434	A09	115	64											1								
66	05-0359		EXISTING	Erwin Rd.	Anderson St.	YES	329	A01	15	65											1								
67	05-0360		EXISTING	Erwin Rd.	Trent Dr.		327	A01	14	66											1								
68	05-0361		EXISTING	Davis Dr.	Select Dr.		108	B19	199	67											1					1			
69	05-0362		EXISTING	Hillsborough Rd.	Ninth St.	YES	431	A09	111	68											1								
70	05-0363		EXISTING	Guess Rd.	Broad St. / Sunset Av.		494	A08	101	69										1			1	1					
71	05-0364		EXISTING	Broad St.	Club Blvd.	YES	501	A08	108	70											1								
72	05-0365		EXISTING	Broad St.	Markham Av.	YES	433	A09	113	71	1				1					1			1						
73	05-0376		EXISTING	Miami Blvd.	Holloway St.		343	B16	162	72											1								
74	05-0377		EXISTING	Angier Av.	Driver St.	YES	392	B23	248	73											1					1			
75	05-0381		EXISTING	Blackwell St.	Pettigrew St.	YES	361	B25	281	74													1						
76	05-0382		EXISTING	Chapel Hill St.	Pettigrew St.	YES	451	A11	138	75											1								
77	05-0383		EXISTING	Roxboro St.	Latta Rd. / Infinity Rd.		519	A04	42	76											1								
78	05-0384		EXISTING	Durham-Chapel Hill Blvd.	Garrett Rd.		225	C34	337	77											1								
79	05-0385		EXISTING	Duke St.	Horton Rd.		527	A04	46	78													1						
80	05-0386		EXISTING	Durham-Chapel Hill Blvd.	University Dr.		301	C38	382	79										1			1						
81	05-0388		EXISTING	Erwin Rd.	Fulton St.		327	A01	12	80													1						
82	05-0389		EXISTING	NC 98 (Wake Forest Hwy)	Mineral Springs Rd.		353	B16	156	81													1						
83	05-0390		EXISTING	NC 54	NC 55		25	B20	218	82											1						1		
84	05-0393		EXISTING	US 70 (Miami Blvd.)	Pleasant Dr.		130	B24	277	83											1					1			
85	05-0394		EXISTING	S. Miami Blvd.	Angier Av.		136	B17	182	84													1						
86	05-0395		EXISTING	NC 55	Burlington Av.		371	B23	249	85															1				
87	05-0396		EXISTING	Carver St.	Guess Rd.		489	A03	38	86													1						
88	05-0397		EXISTING	Miami Blvd.	Geer St.		467	A07	90	87											1								
89	05-0398		EXISTING	Roxboro St.	Olympic Av.		555	A05	64	88											1								
90	05-0401		EXISTING	Cornwallis Rd.	Roxboro St.		304	C38	381	89											1								
91	05-0402		EXISTING	Fayetteville St.	Pilot St.		384	C31	285	90										1			1						
92	05-0404		EXISTING	Fayetteville St.	Brant St.	YES	380	C31	289	91	1									1			1						
93	05-0405		EXISTING	Academy Rd.	Woodburn Rd.		309	C38	389	92													1						
94	05-0406		EXISTING	Fayetteville St.	Burlington Av.		382	C31	287	93											1								
95	05-0407		EXISTING	Academy Rd.	Cornwallis Rd.		308	C38	389	94											1								
96	05-0408		EXISTING	Chapel Hill Rd.	Cornwallis Rd.	YES	310	C38	390	95															1				
97	05-0409		EXISTING	Chapel Hill Rd.	Anderson St.		312	C38	391	96										1			1						
98	05-0410		EXISTING	Duke St.	Murray Av.		533	A04	54	97	1				1					1			1						
99	05-0411		EXISTING	Gregson St.	Northgate Mall Entrance	YES	497	A08	106	98															1				
100	05-0412		EXISTING	Morehead Av.	Vickers St.	YES	280	C37	367	99											1								

12/20/2018 K:\RAL_TPTD_ITS_01036410 - Durham Signal System\Plans\Details\U-5968_ITS_posr_31issw1.dgn

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	CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM SUMMARY OF WORK BY INTERSECTION										
	DIVISION 05 DURHAM COUNTY PLAN DATE: DEC 2018 REVIEWED BY: PREPARED BY: J. CROSS REVIEWED BY: K. SMITH										
SCALE 	REVISIONS <table border="1"> <tr><th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	NO.	DATE	DESCRIPTION				INIT. DATE <table border="1"> <tr><td> </td><td> </td></tr> </table>			DocuSigned by:  12/21/2018 CADD File name:
NO.	DATE	DESCRIPTION									

Reference											Fiber Communications								Wireless Communications			
No.	State ID	City ID	Status	Street 1	Street 2	Located Within Designated Historic District	Cable Routing Sheet No.	Comm Group No.	Splice Detail Sheet No.	Signal Plan Sheet No.	55	48	-	28	-	-	-	67	-	69	-	73
											Remove Existing Fiber Optic Drop Cable	Install New Fiber Optic Drop Cable	Remove Existing Fiber Optic Interconnect Center	Install New Fiber Optic Interconnect Center	Remove Existing Fiber Optic Data Transceiver	Remove Existing Fiber Optic Video Transceiver	Remove Existing Analog CCTV Camera and Video Equipment	Install New Field Ethernet Switch	Remove Existing Serial Wireless Radio Equipment	Install New Ethernet Wireless Radio Equipment	Remove Existing Dial-Up Modem	Install New Cell Modem
51	05-0330		EXISTING	Roxboro St.	Dowd St. / Broadway St.	YES	455	A06	83	51		1	1	1	1		1					
52	05-0332		EXISTING	Roxboro St.	Trinity Av.	YES	456	A06	81	52		1	1	1	1		1					
53	05-0333		EXISTING	Holloway St.	Adams St.		346	B16	159	405	1	1	1	1	1		1					
54	05-0335		EXISTING	Gregson St.	Lamond St.	YES	439	A11	134	53		1	1	1				1				
55	05-0336		EXISTING	Old Chapel Hill Rd.	University Dr.		214	C35	340	54	1	1	1	1	1			1				
56	05-0341		EXISTING	Chapel Hill St.	Duke St.	YES	451	A11	137	55	1	1	1	1	1			1				
57	05-0342		EXISTING	Chapel Hill St.	Gregson St.	YES	450	A11	133	56	1	1	1	1	1			1				
58	05-0344		EXISTING	Chapel Hill St.	Buchanan Blvd.	YES	449	A11	131	57		1	1	1	1			1				
59	05-0345		EXISTING	Chapel Hill St.	Kent St.	YES	449	A11	131	58	1	1	1	1	1			1				
60	05-0346		EXISTING	Morehead Av.	Kent St.		279	C37	366	59	1	1	1	1	1			1				
61	05-0347		EXISTING	Club Blvd.	Duke St.	YES	498	A08	105	60	1	1	1	1	1			1				
62	05-0348		EXISTING	Duke St.	Markham Av.	YES	506	A10	124	61		1	1	1	1			1				
63	05-0349		EXISTING	Duke St.	Trinity Av.	YES	507	A10	125	62		1	1	1	1			1				
64	05-0356		EXISTING	Main St.	Broad St. / Swift Av.	YES	434	A09	117	63	1	1	1	1	1			1				
65	05-0357		EXISTING	Ninth St.	Main St. / Erwin Rd.	YES	434	A09	115	64	1	1	1	1	1			1				
66	05-0359		EXISTING	Erwin Rd.	Anderson St.	YES	329	A01	15	65	1	1	1	1	1			1				
67	05-0360		EXISTING	Erwin Rd.	Trent Dr.		327	A01	14	66	1	1	1	1	1			1				
68	05-0361		EXISTING	Davis Dr.	Select Dr.		108	B19	199	67	1	1	1	1	1			1				
69	05-0362		EXISTING	Hillsborough Rd.	Ninth St.	YES	431	A09	111	68	1	1	1	1	1			1				
70	05-0363		EXISTING	Guess Rd.	Broad St. / Sunset Av.		494	A08	101	69		1	1	1	1			1	1			
71	05-0364		EXISTING	Broad St.	Club Blvd.	YES	501	A08	108	70	1	1	1	1	1			1				
72	05-0365		EXISTING	Broad St.	Markham Av.	YES	433	A09	113	71		1	1	1	1			1				
73	05-0376		EXISTING	Miami Blvd.	Holloway St.		343	B16	162	72	1	1	1	1	1			1				
74	05-0377		EXISTING	Angier Av.	Driver St.	YES	392	B23	248	73	1	1	1	1	1			1				
75	05-0381		EXISTING	Blackwell St.	Pettigrew St.	YES	361	B25	281	74		1	1	1	1			1				
76	05-0382		EXISTING	Chapel Hill St.	Pettigrew St.	YES	451	A11	138	75	1	1	1	1	1			1				
77	05-0383		EXISTING	Roxboro St.	Latta Rd. / Infinity Rd.		519	A04	42	76	1	1	1	1	1			1				
78	05-0384		EXISTING	Durham-Chapel Hill Blvd.	Garrett Rd.		225	C34	337	77	1	1	1	1	1			1				
79	05-0385		EXISTING	Duke St.	Horton Rd.		527	A04	46	78		1	1	1	1			1				
80	05-0386		EXISTING	Durham-Chapel Hill Blvd.	University Dr.		301	C38	382	79		1	1	1	1			1				
81	05-0388		EXISTING	Erwin Rd.	Fulton St.		327	A01	12	80		1	1	1	1			1				
82	05-0389		EXISTING	NC 98 (Wake Forest Hwy)	Mineral Springs Rd.		353	B16	156	81		1	1	1	1			1				
83	05-0390		EXISTING	NC 54	NC 55		25	B20	218	82	1	1	1	1	1			1				
84	05-0393		EXISTING	US 70 (Miami Blvd.)	Pleasant Dr.		130	B24	277	83	1	1	1	1	1			1				
85	05-0394		EXISTING	S. Miami Blvd.	Angier Av.		136	B17	182	84		1	1	1	1			1				
86	05-0395		EXISTING	NC 55	Burlington Av.		371	B23	249	85	1	1	1	1	1			1				
87	05-0396		EXISTING	Carver St.	Guess Rd.		489	A03	38	86		1	1	1	1			1				
88	05-0397		EXISTING	Miami Blvd.	Geer St.		467	A07	90	87	1	1	1	1	1			1				
89	05-0398		EXISTING	Roxboro St.	Olympic Av.		555	A05	64	88	1	1	1	1	1			1				
90	05-0401		EXISTING	Cornwallis Rd.	Roxboro St.		304	C38	381	89	1	1	1	1	1			1				
91	05-0402		EXISTING	Fayetteville St.	Pilot St.		384	C31	285	90		1	1	1	1			1				
92	05-0404		EXISTING	Fayetteville St.	Brant St.	YES	380	C31	289	91		1	1	1	1			1				
93	05-0405		EXISTING	Academy Rd.	Woodburn Rd.		309	C38	389	92		1	1	1	1			1				
94	05-0406		EXISTING	Fayetteville St.	Burlington Av.		382	C31	287	93	1	1	1	1	1			1				
95	05-0407		EXISTING	Academy Rd.	Cornwallis Rd.		308	C38	389	94	1	1	1	1	1			1				
96	05-0408		EXISTING	Chapel Hill Rd.	Cornwallis Rd.	YES	310	C38	390	95	1	1	1	1	1			1				
97	05-0409		EXISTING	Chapel Hill Rd.	Anderson St.		312	C38	391	96		1	1	1	1			1				
98	05-0410		EXISTING	Duke St.	Murray Av.		533	A04	54	97		1	1	1	1			1				
99	05-0411		EXISTING	Gregson St.	Northgate Mall Entrance	YES	497	A08	106	98	1	1	1	1	1			1				
100	05-0412		EXISTING	Morehead Av.	Vickers St.	YES	280	C37	367	99	1	1	1	1	1			1				

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Plans Prepared For:
 Transportation Mobility and Safety Division
 DIVISION OF TRANSPORTATION
 STATE OF NORTH CAROLINA
 250 N. Greenfield Place, Garner, NC 27529

CITY OF DURHAM COMPUTERIZED SIGNAL SYSTEM
 SUMMARY OF WORK BY INTERSECTION

DIVISION 05 DURHAM COUNTY

PLAN DATE: DEC 2018 REVIEWED BY: J. CROSS

PREPARED BY: J. CROSS REVIEWED BY: K. SMITH

REVISIONS	INIT.	DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 030472
 KEVIN W. SMITH
 12/21/2018
 CADD Filename: _____