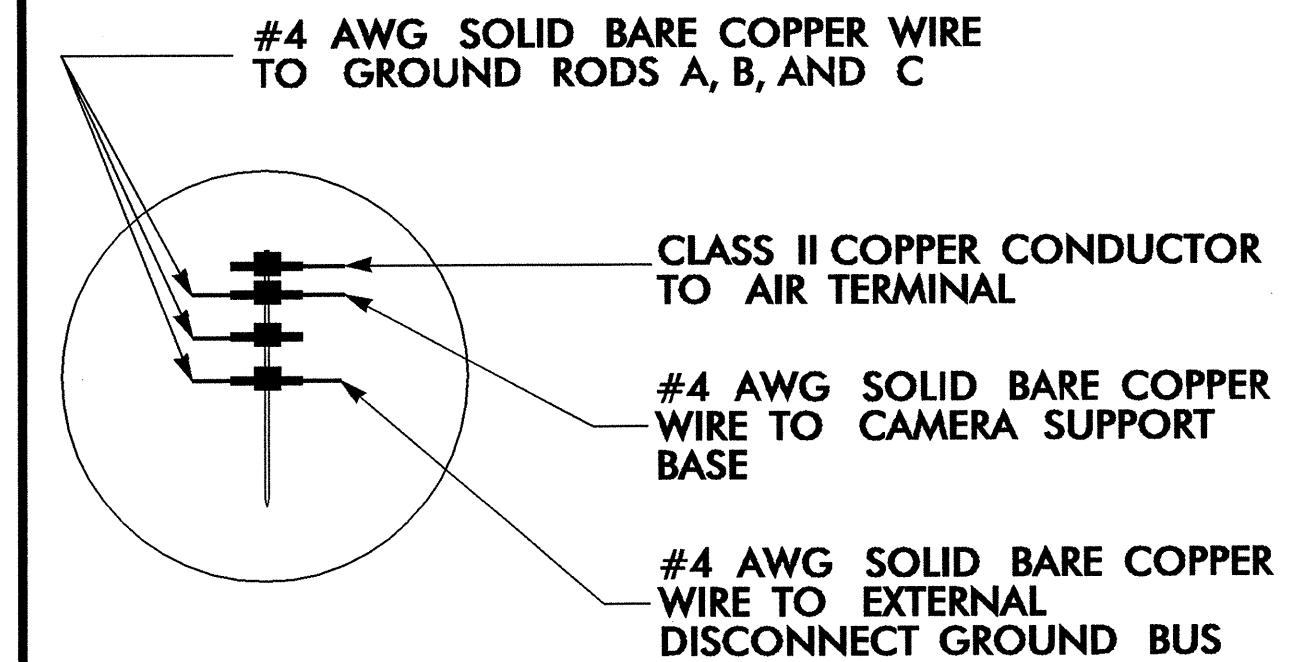
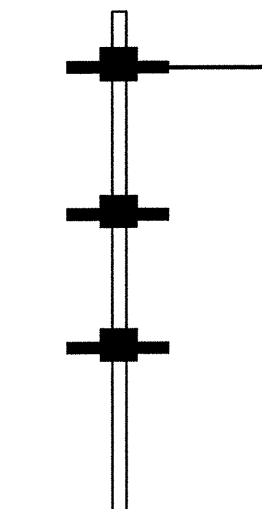


INSET 'A'



ALTERNATE GROUNDING METHOD

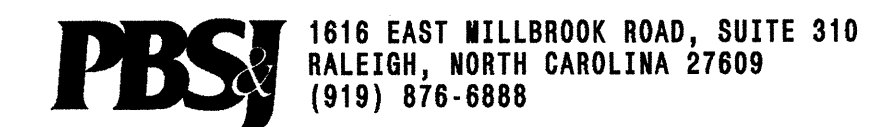
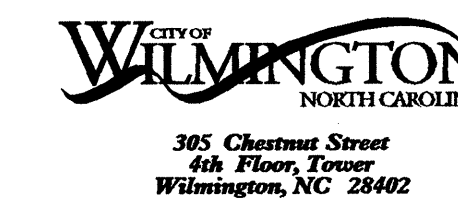
IF SPACE IS NOT AVAILABLE TO DRIVE MULTIPLE RODS, DRIVE SECTIONAL GROUND RODS A MINIMUM OF 30'.



JOIN SECTIONAL GROUND RODS BY EXOTHERMIC WELDING CONNECTION

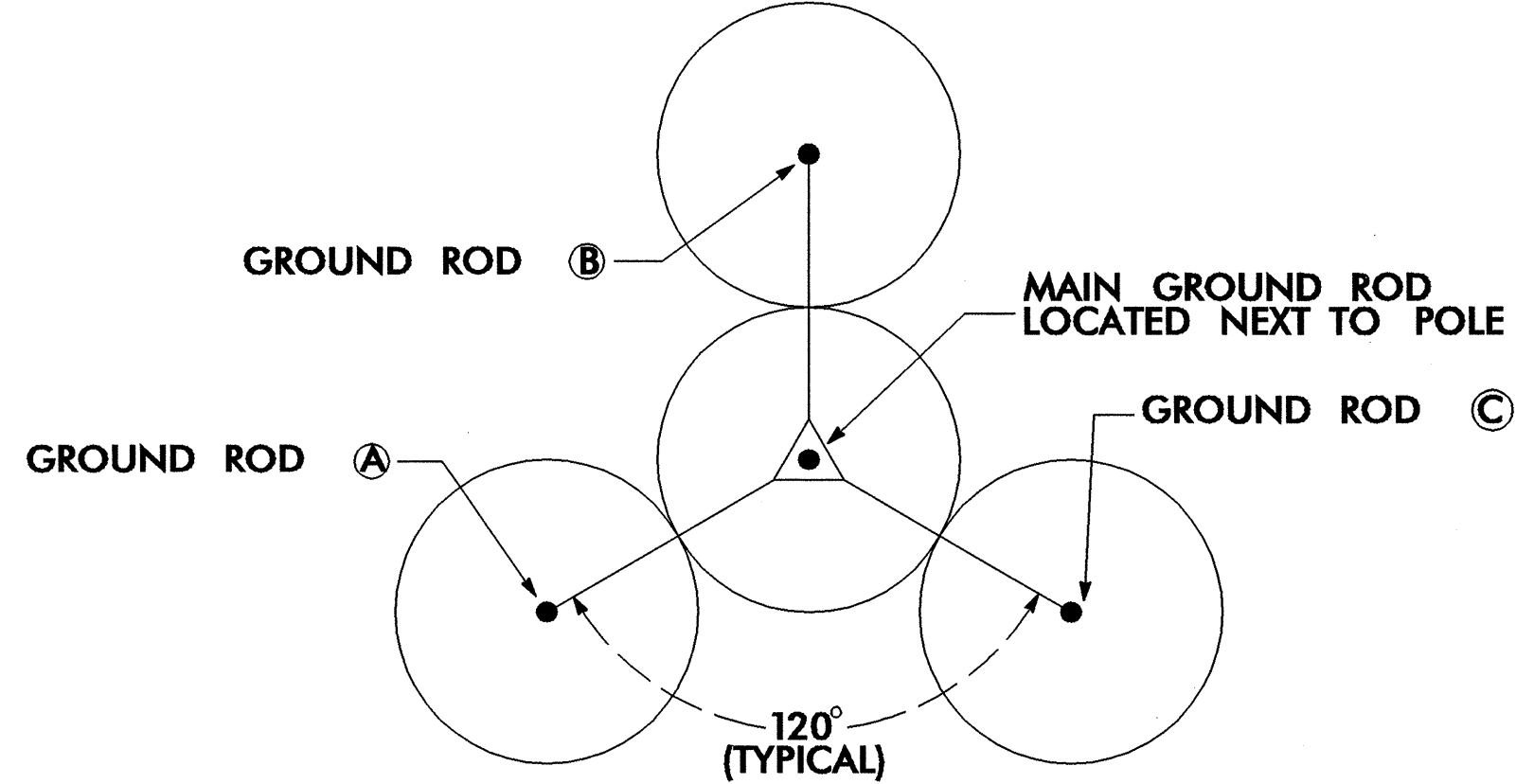
NOTES

1. 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.
2. EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
3. THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30' SECTIONAL GROUND ROD FOR INSTANCES WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 - RADIAL GROUND RODS.
4. INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12".
5. REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUS AND NEUTRAL BUS.
6. SEE SHEET SD 2-13 FOR RISERS AND CONDUIT DETAILS FOR POLE MOUNTED CCTV CABINETS

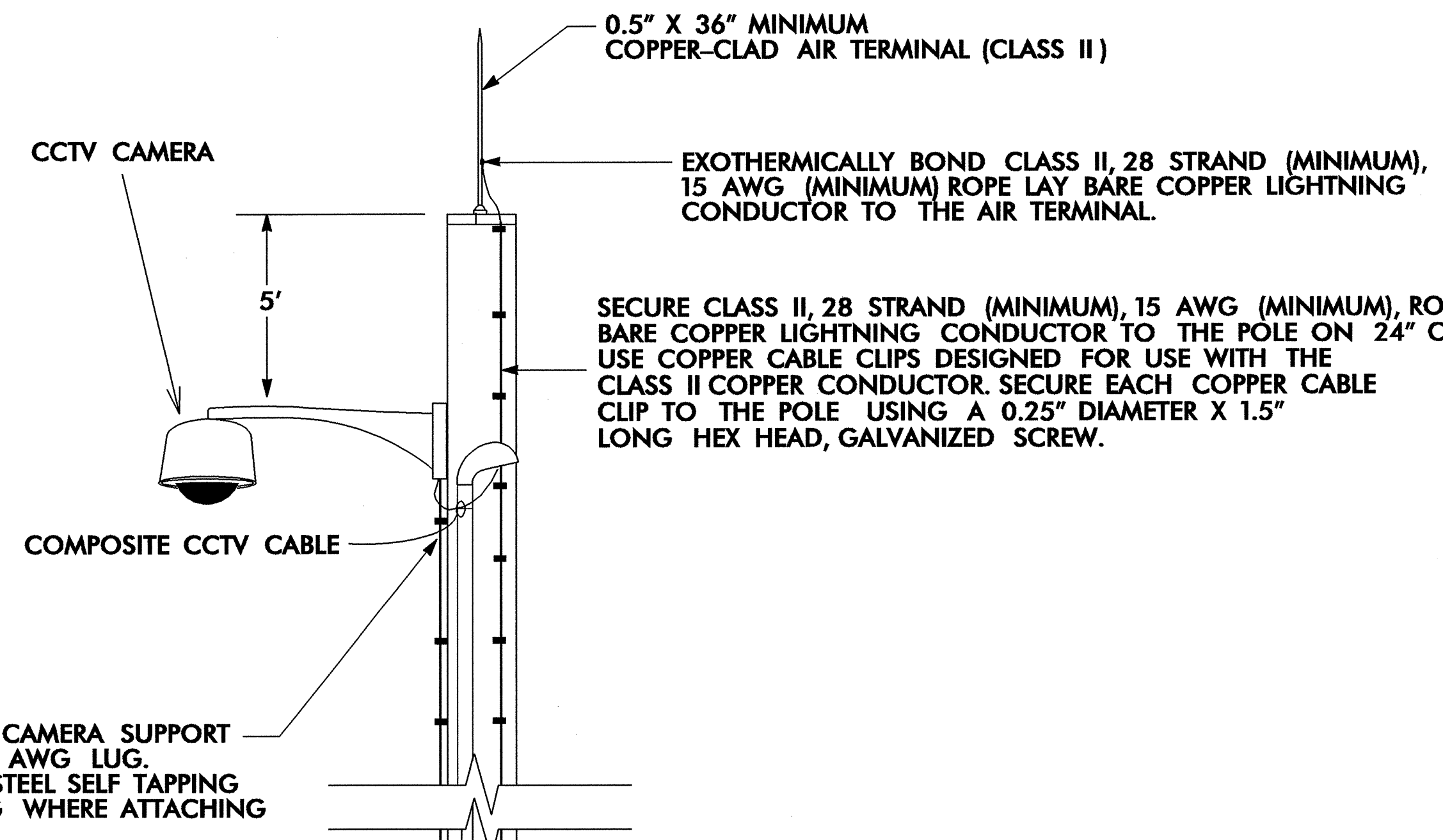


	Prepared for the Offices of: <b>Wilmington Signal System</b> Typical Detail CCTV Camera Installation For Wood Poles U/G Elect. Service Division 03 New Hanover County Wilmington		SEAL
	PLAN DATE: July 2008 PREPARED BY: DEC	REVIEWED BY: HA Badgett REVIEWED BY: DL Jones	DATE:
NOT TO SCALE	REVISIONS:	INIT. DATE:	CADD File name: SD 2-01.DGN

10' RADIUS EACH "SPHERE OF INFLUENCE"



GROUND ROD PLACEMENT DETAIL (TYPICAL EACH POLE)



BOND #4 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" PVC U-GUARD OVER COPPER CONDUCTOR FROM GROUND LEVEL TO 10' (MINIMUM) ABOVE THE GROUND.

2" RIGID GALVANIZED STEEL RISER FOR COMPOSITE CCTV CABLE

POLE MOUNT EQUIPMENT CABINET

SEE NOTE 5

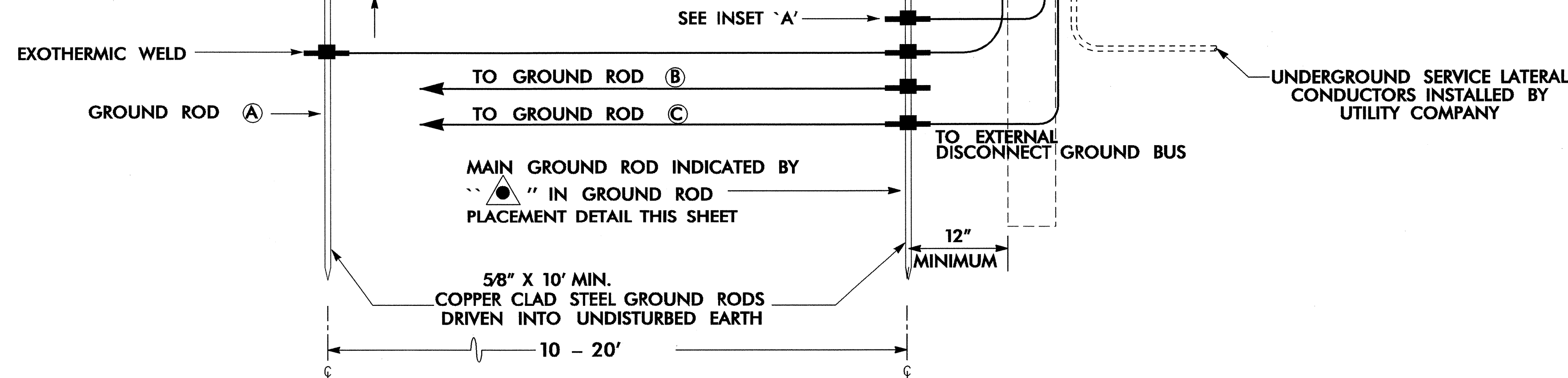
SEE SD 2-13 FOR RISER AND CONDUIT DETAILS

METER BASE / DISCONNECT COMBINATION PANEL AS REQUIRED IN PLANS

INSTALL MARKER TAPE 12" BELOW GRADE AND ABOVE ALL GROUNDING CONDUCTORS.

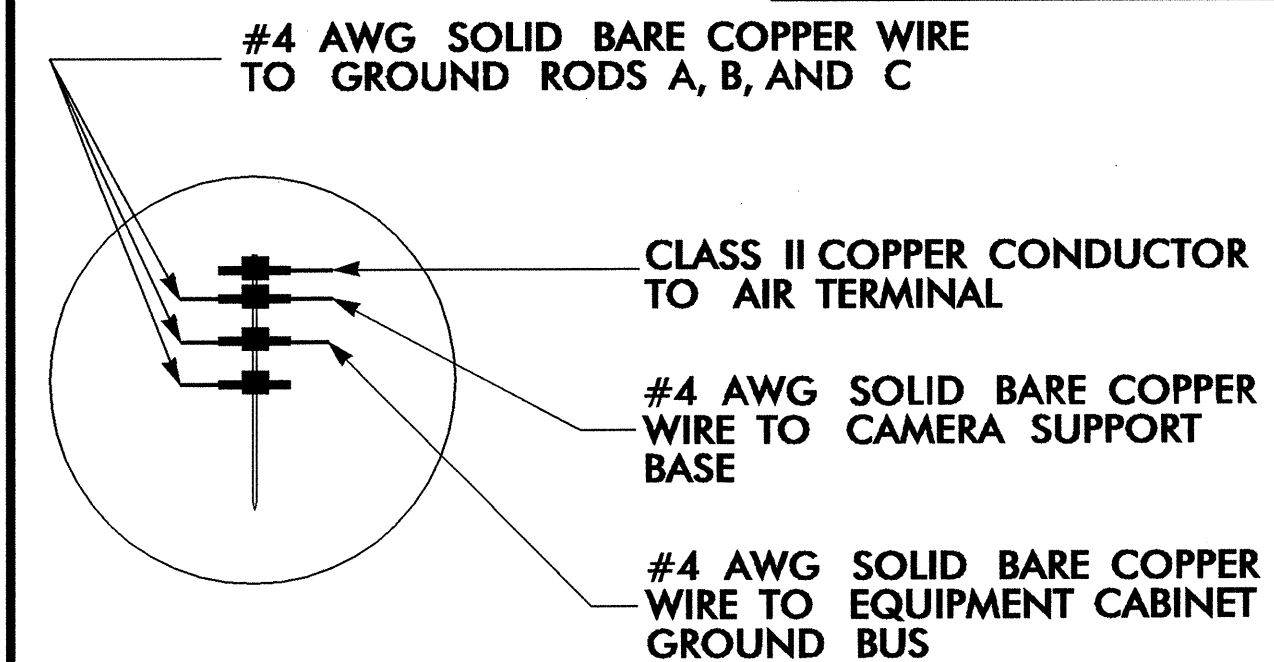
FINISHED GRADE

24" MIN.



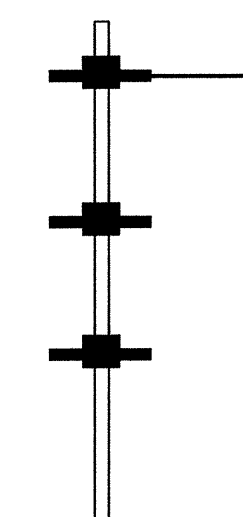
MAIN GROUND ROD INDICATED BY "▲" IN GROUND ROD PLACEMENT DETAIL THIS SHEET

INSET 'A'

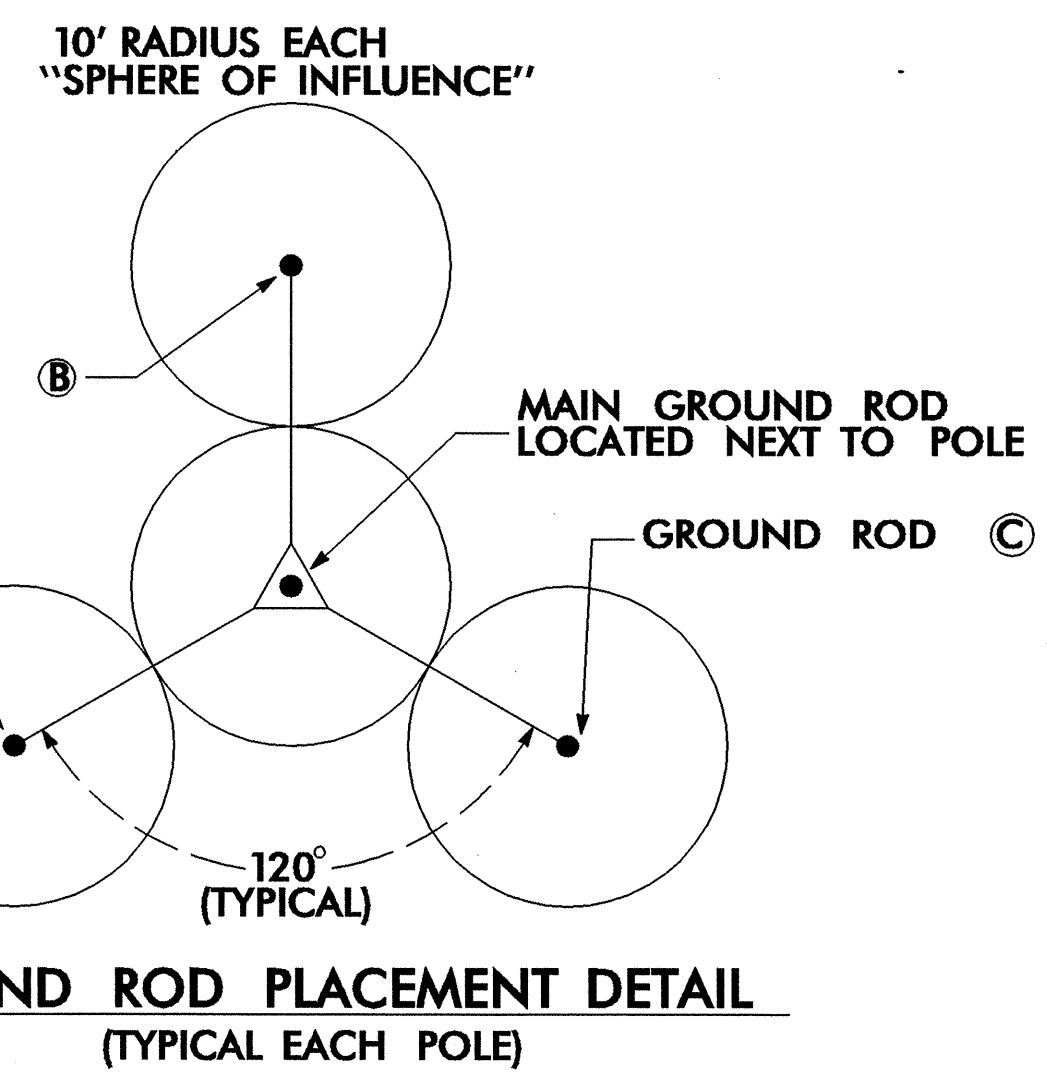


ALTERNATE GROUNDING METHOD

IF SPACE IS NOT AVAILABLE TO DRIVE MULTIPLE RODS, DRIVE SECTIONAL GROUND RODS A MINIMUM OF 30'.



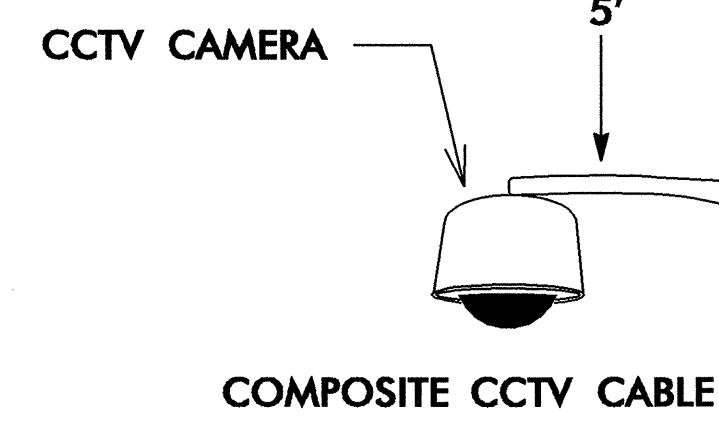
JOIN SECTIONAL GROUND RODS BY EXOTHERMIC WELDING CONNECTION



0.5" X 36" MINIMUM COPPER-CLAD AIR TERMINAL (CLASS II)

EXOTHERMICALLY BOND CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM) ROPE-LAY BARE COPPER LIGHTNING CONDUCTOR TO THE AIR TERMINAL.

SECURE CLASS II, 28 STRAND (MINIMUM), 15 AWG (MINIMUM), ROPE-LAY BARE COPPER LIGHTNING CONDUCTOR TO THE POLE ON 24" CENTERS. USE COPPER CABLE CLIPS DESIGNED FOR USE WITH THE CLASS II COPPER CONDUCTOR. SECURE EACH COPPER CABLE CLIP TO THE POLE USING A 0.25" DIAMETER X 1.5" LONG HEX HEAD, GALVANIZED SCREW.



ELECTRICAL SERVICE DROP CONDUCTORS INSTALLED BY UTILITY COMPANY

1" RIGID GALVANIZED STEEL RISER WITH WEATHERHEAD

BOND #4 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" PVC U-GUARD OVER COPPER CONDUCTOR FROM GROUND LEVEL TO 10' (MINIMUM) ABOVE THE GROUND.

2" RIGID GALVANIZED STEEL RISER FOR COMPOSITE CCTV CABLE

POLE MOUNT EQUIPMENT CABINET

METER BASE / DISCONNECT COMBINATION PANEL AS REQUIRED IN PLANS

SEE NOTE 5

SEE SD 2-13 FOR RISER AND CONDUIT DETAILS

INSTALL MARKER TAPE 12" BELOW GRADE AND ABOVE ALL GROUNDING CONDUCTORS.

SEE INSET 'A'

1" CONDUIT FOR FEEDER

INSTALL ELECTRICAL SERVICE POLE NEAR RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.

FINISHED GRADE

24" MIN.

EXOTHERMIC WELD

TO GROUND ROD B

TO GROUND ROD C

GROUND ROD A

TO EQUIPMENT CABINET GROUND BUS

MAIN GROUND ROD INDICATED BY "●" IN GROUND ROD PLACEMENT DETAIL THIS SHEET

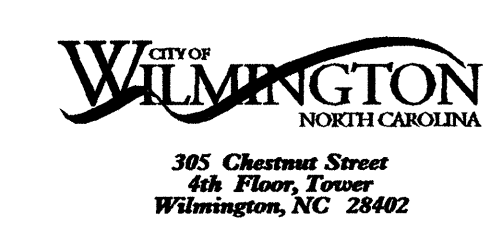
12" MINIMUM

5/8" X 10' MIN. COPPER CLAD STEEL GROUND RODS DRIVEN INTO UNDISTURBED EARTH

10 - 20'

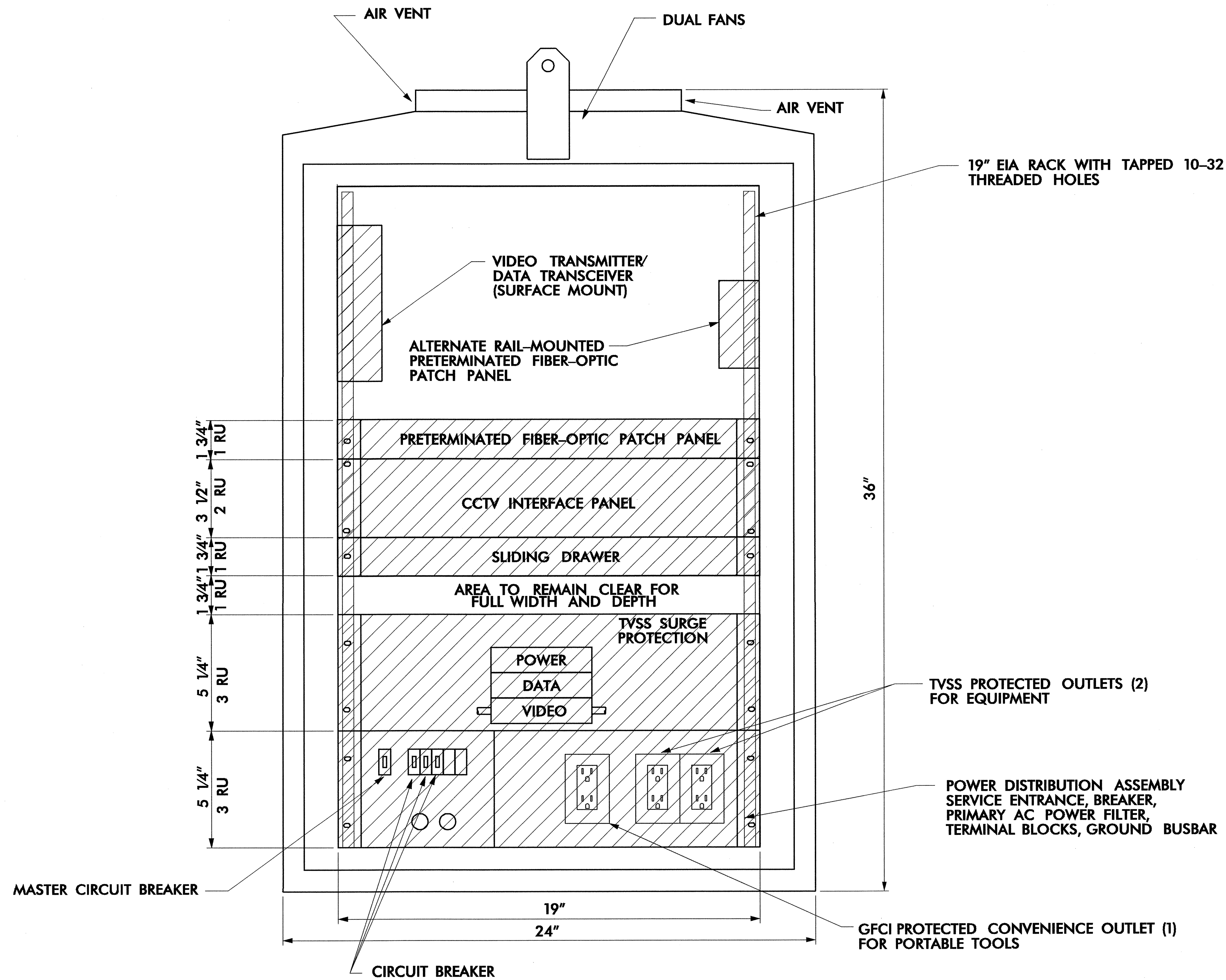
NOTES

- 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.
- EXOTHERMICALLY WELD ALL CONNECTIONS TO GROUND RODS.
- THE CONTRACTOR MAY, UPON APPROVAL OF THE ENGINEER, INSTALL A 30' SECTIONAL GROUND ROD FOR INSTANCES WHEN CONDITIONS WILL NOT ALLOW FOR THE INSTALLATION OF THE 3 - RADIAL GROUND RODS.
- INSTALL MARKER TAPE DIRECTLY ABOVE ALL GROUNDING ELECTRODES AND CONDUCTORS AT A DEPTH OF 12".
- REMOVE BONDING JUMPER BETWEEN EQUIPMENT CABINET GROUND BUS AND NEUTRAL BUS.
- SEE SHEET SD 2-13 FOR RISERS AND CONDUIT DETAILS FOR POLE MOUNTED CCTV CABINETS



PBS 1616 EAST WILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888

	<p>Wilmington Signal System Typical Detail CCTV Camera Installation For Wood Poles O/H Elect. Service</p>		<p>SEAL</p>
	<p>Division 03 New Hanover County Wilmington</p>		
<p>750 Greenfield Parkway, Garner, NC 27529</p>	<p>PREPARED BY: DEC</p>	<p>REVIEWED BY: HA Badgett</p>	<p>DATE: 7/25/08</p>
<p>NOT TO SCALE</p>	<p>REVISIONS</p>	<p>INIT. DATE</p>	<p>SIGNATURE: <i>Alfred Baldoni</i> DATE: 7/25/08</p>
<p>CADD Filename: SD 2-02.DGN</p>			

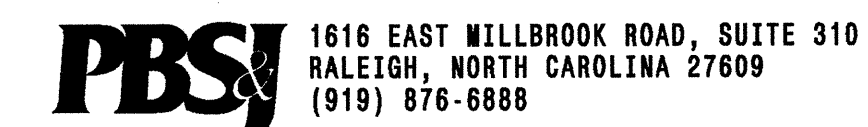
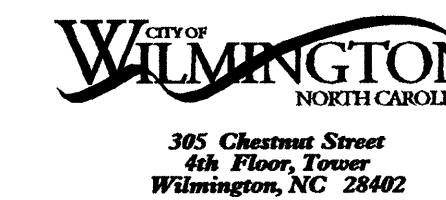


FRONT VIEW

NOTES

1. CABINET IS TYPE 336
2. ALL DIMENSIONS AND SCALE ARE APPROXIMATE.
3. THE MINIMUM CCTV CABINET DIMENSIONS SHALL BE 36"H X 24"W X 22"D.
4. CONDUIT ENTRANCES ARE IN BOTTOM OF CABINET.
5. MINIMUM NUMBER OF OUTLETS IS THREE: (2) TVSS PROTECTED AND (1) GFI PROTECTED.
6. THERE SHALL BE FRONT AND REAR DOORS. BOTH DOORS SHALL HAVE THE HINGE-SIDE NEXT TO THE POLE WHEN POLE MOUNTED.

28-JUL-2008 11:51  
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 18966

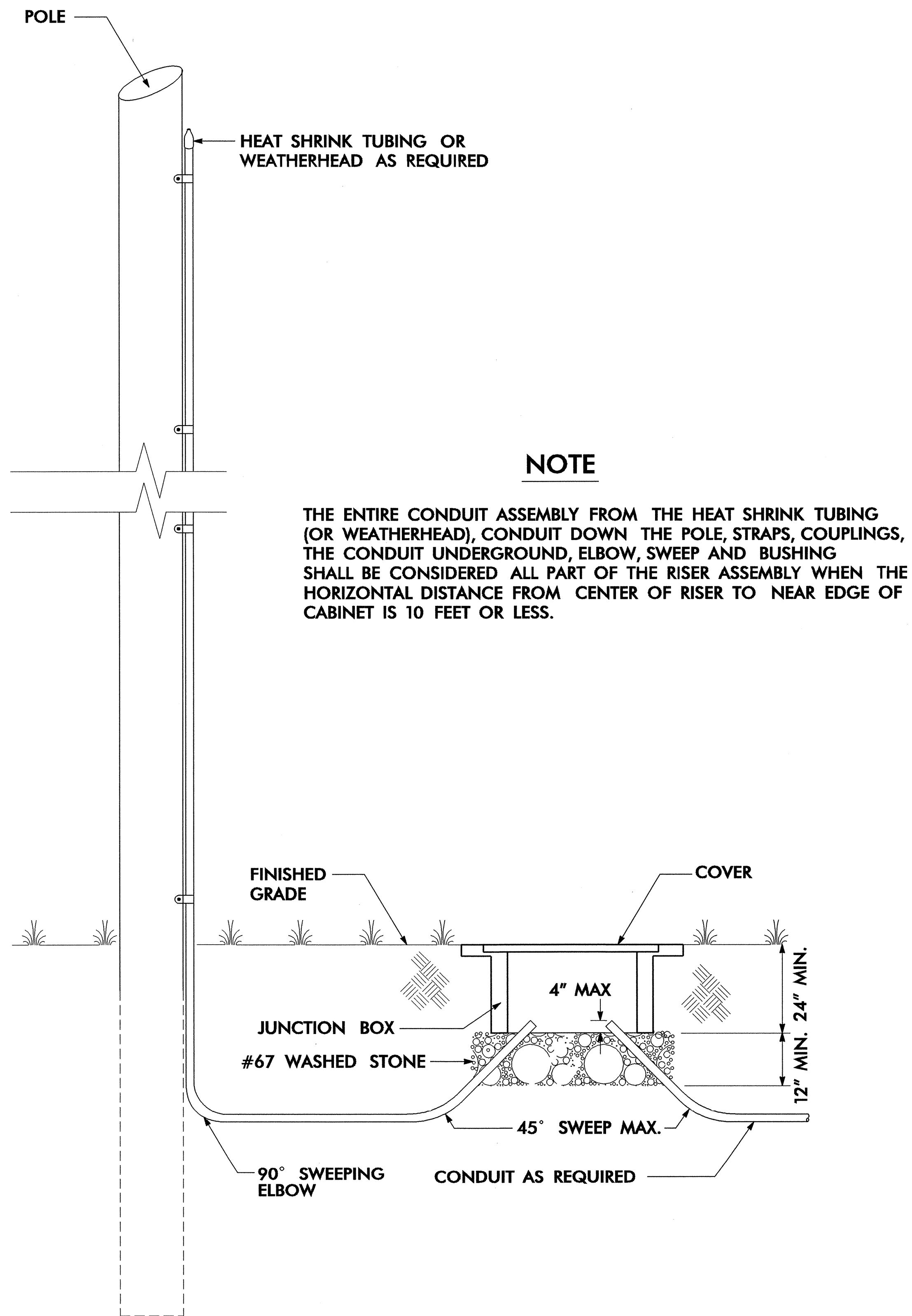


	<b>Wilmington Signal System</b> Typical Detail CCTV Pole-Mounted Cabinet Assembly Layout		SEAL
	Division 03 New Hanover County Wilmington PLAN DATE: July 2008 REVIEWED BY: HA Badgett PREPARED BY: DEC REVIEWED BY: DL Jones		
SCALE NOT TO SCALE	REVISIONS _____ _____ _____	INIT. DATE _____ _____ _____	

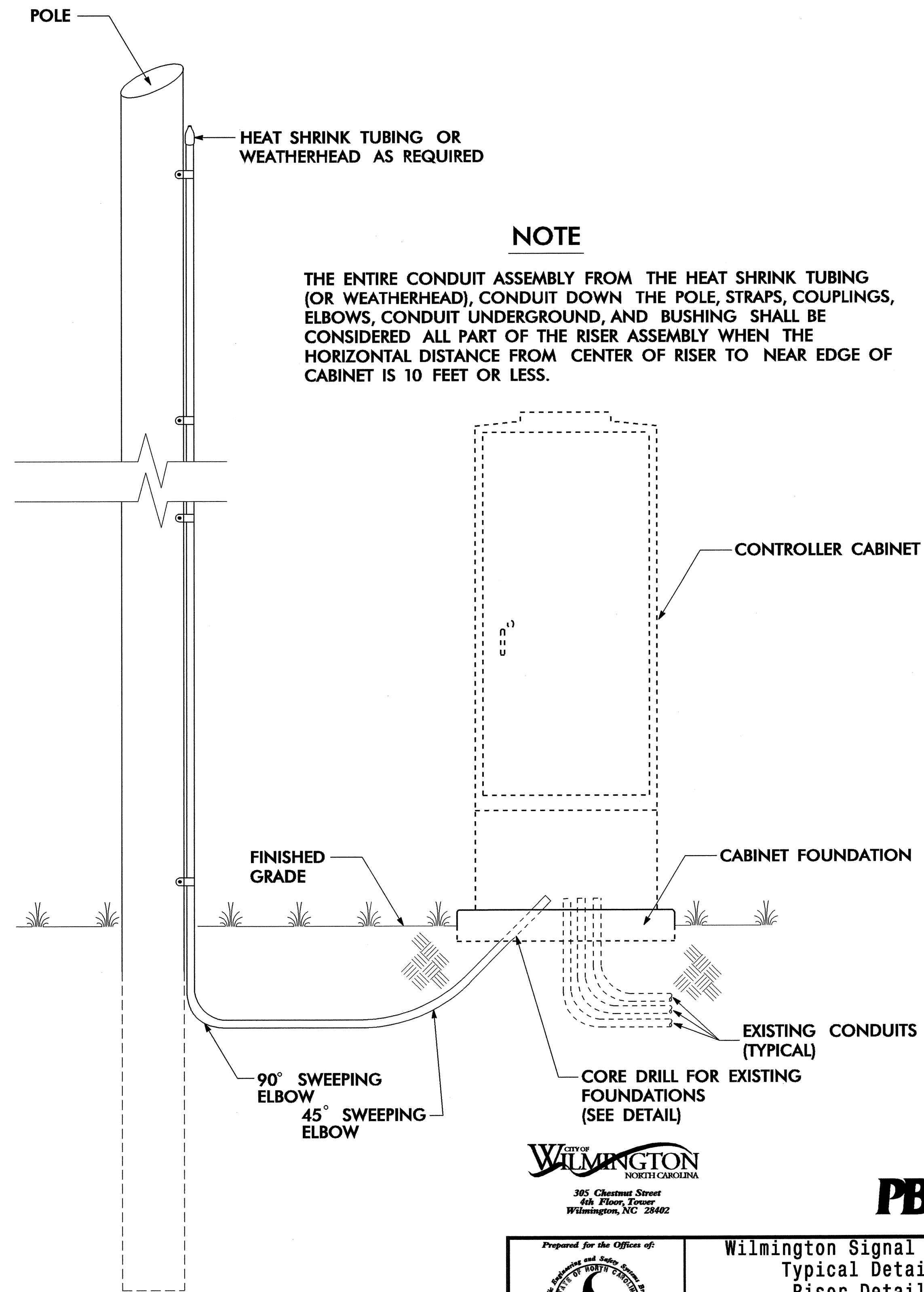


## TYPICAL RISER DETAILS

### RISER TO JUNCTION BOX



### RISER TO CABINET FOUNDATION



23-JUL-2008 11:26  
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18866

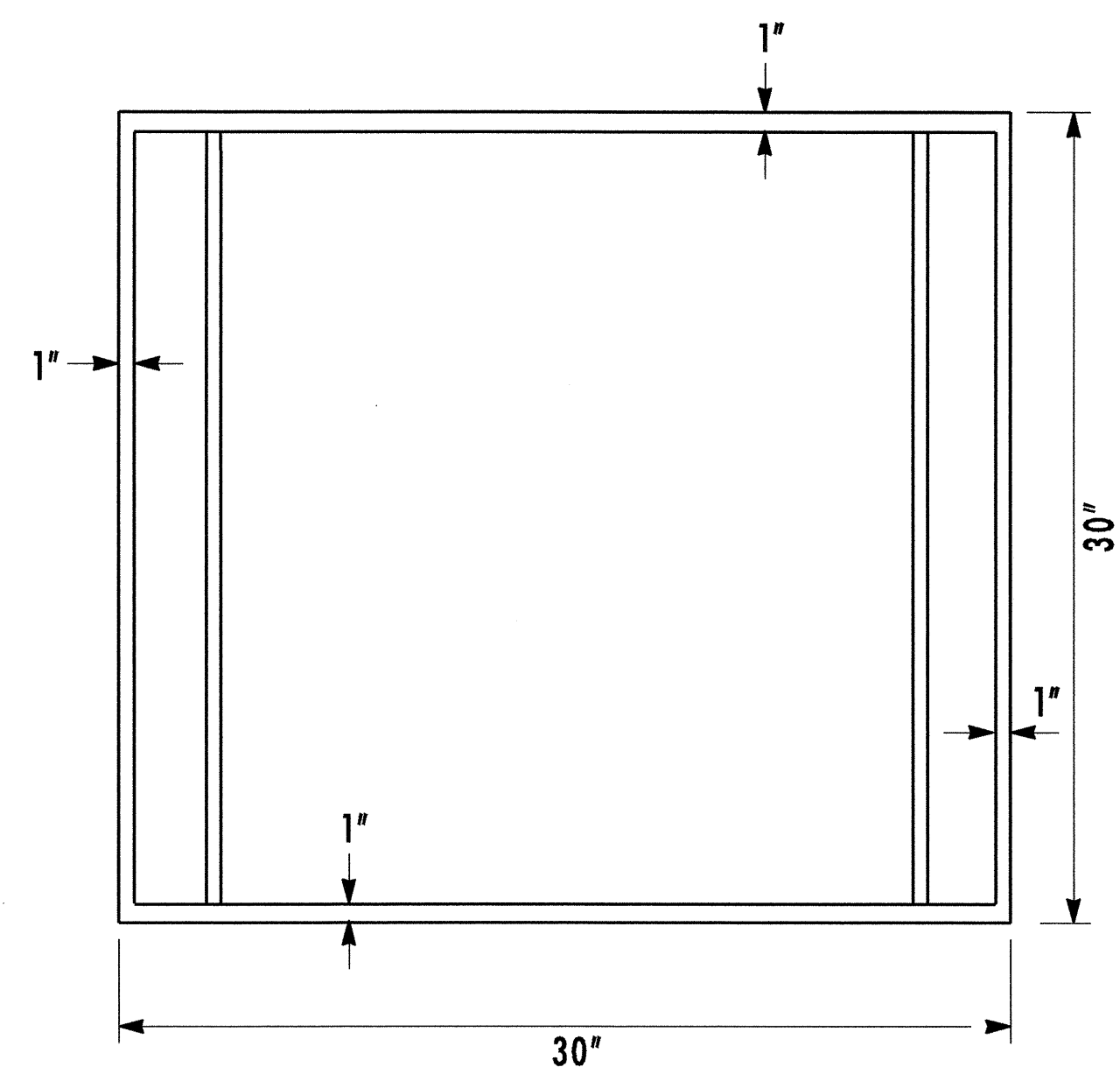
**CITY OF WILMINGTON**  
NORTH CAROLINA  
305 Chestnut Street  
4th Floor, Tower  
Wilmington, NC 28402

**PBS** 1616 EAST MILLBROOK ROAD, SUITE 310  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888

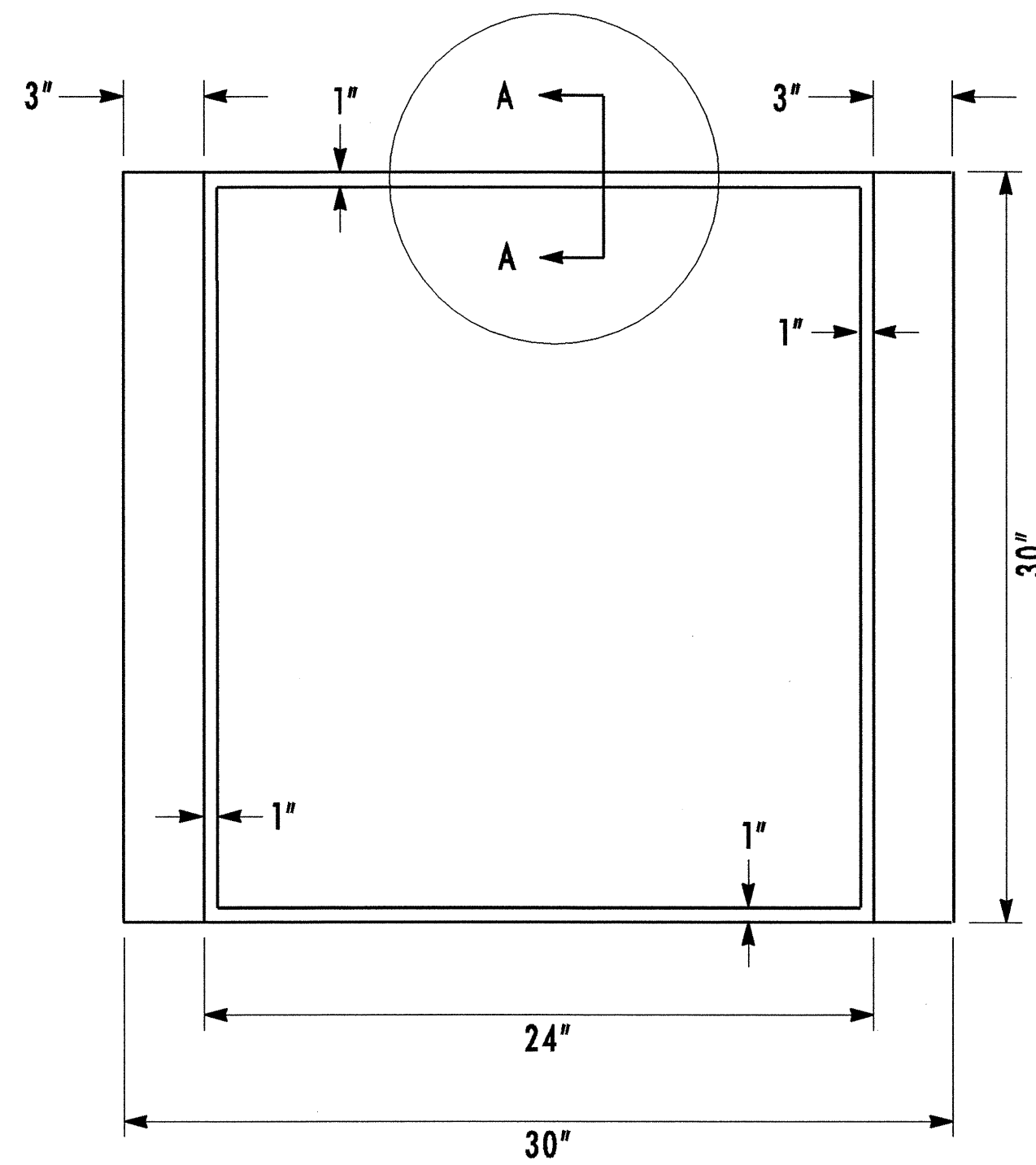
	<b>Wilmington Signal System</b> <b>Typical Detail</b> <b>Riser Detail</b>		
	Division 03 New Hanover County Wilmington PLAN DATE: July 2008 REVIEWED BY: HA Badgett PREPARED BY: DEC REVIEWED BY: DL Jones		
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CADD File name: SD 2-04.DGN

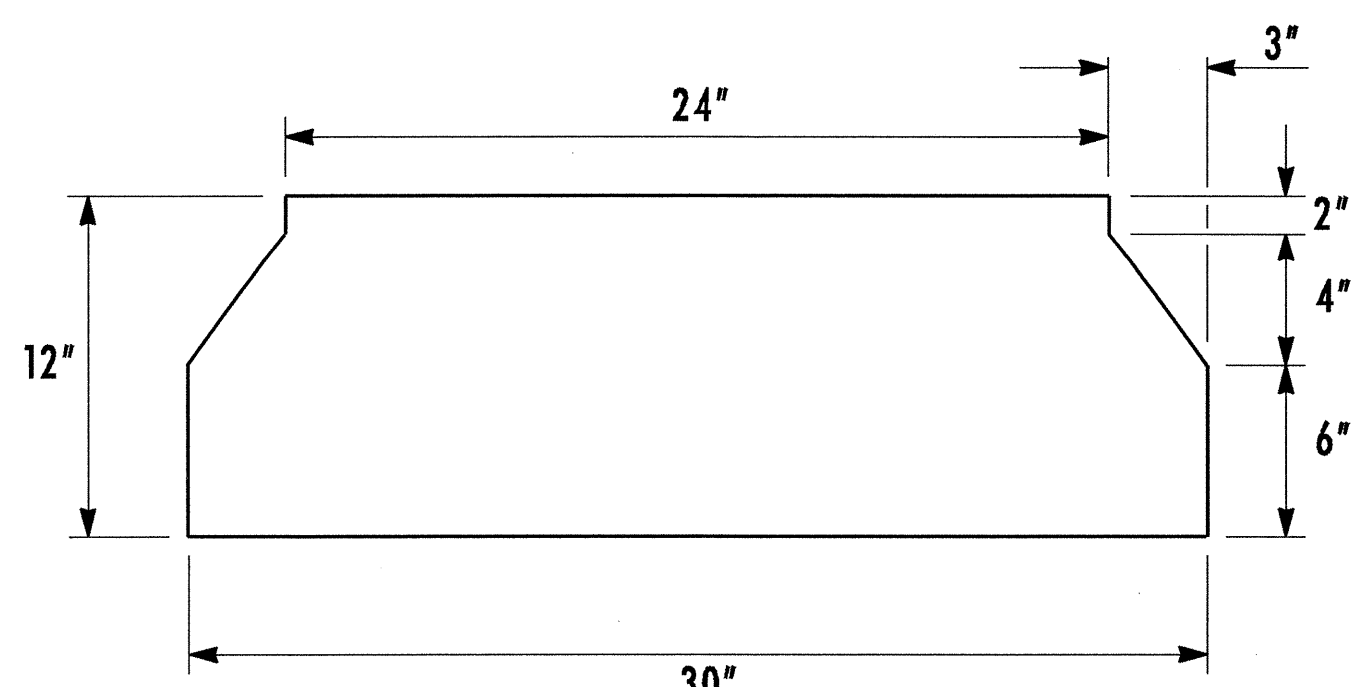




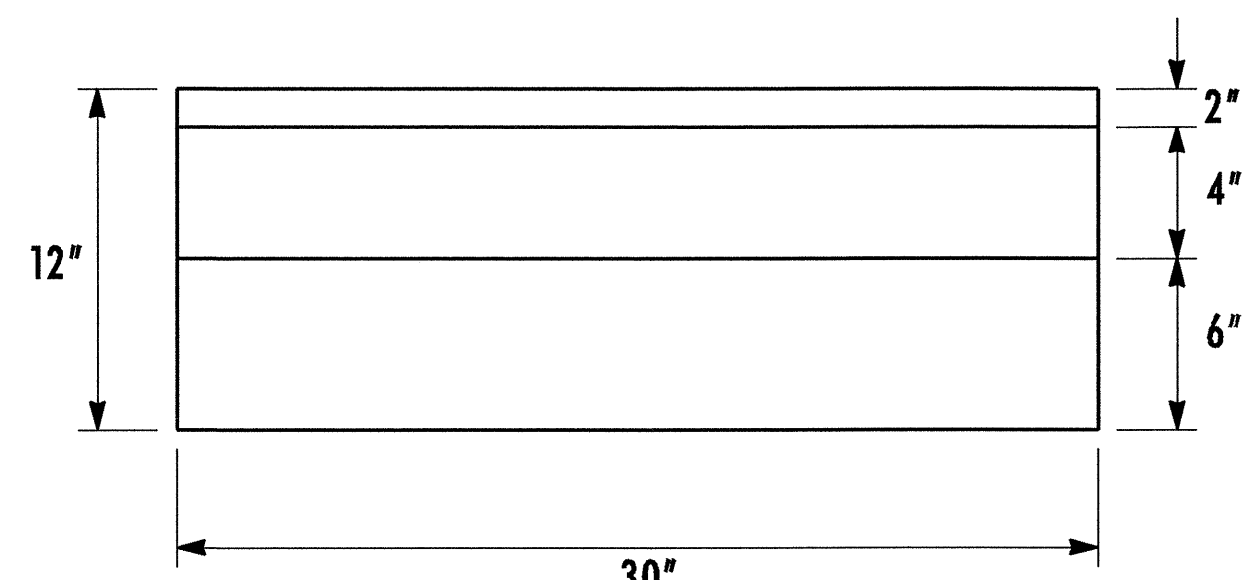
**BOTTOM VIEW**



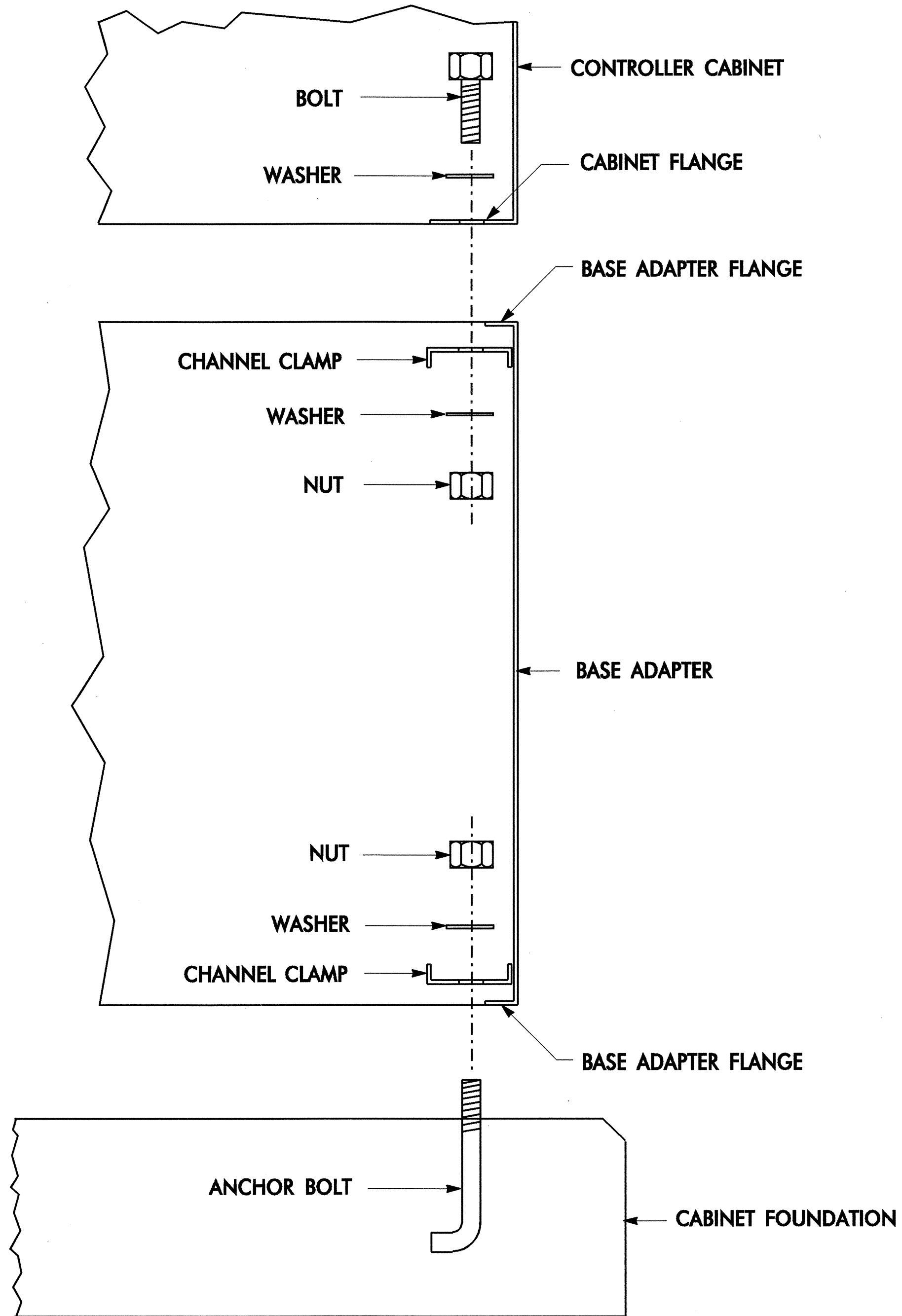
**TOP VIEW**



**FRONT VIEW**

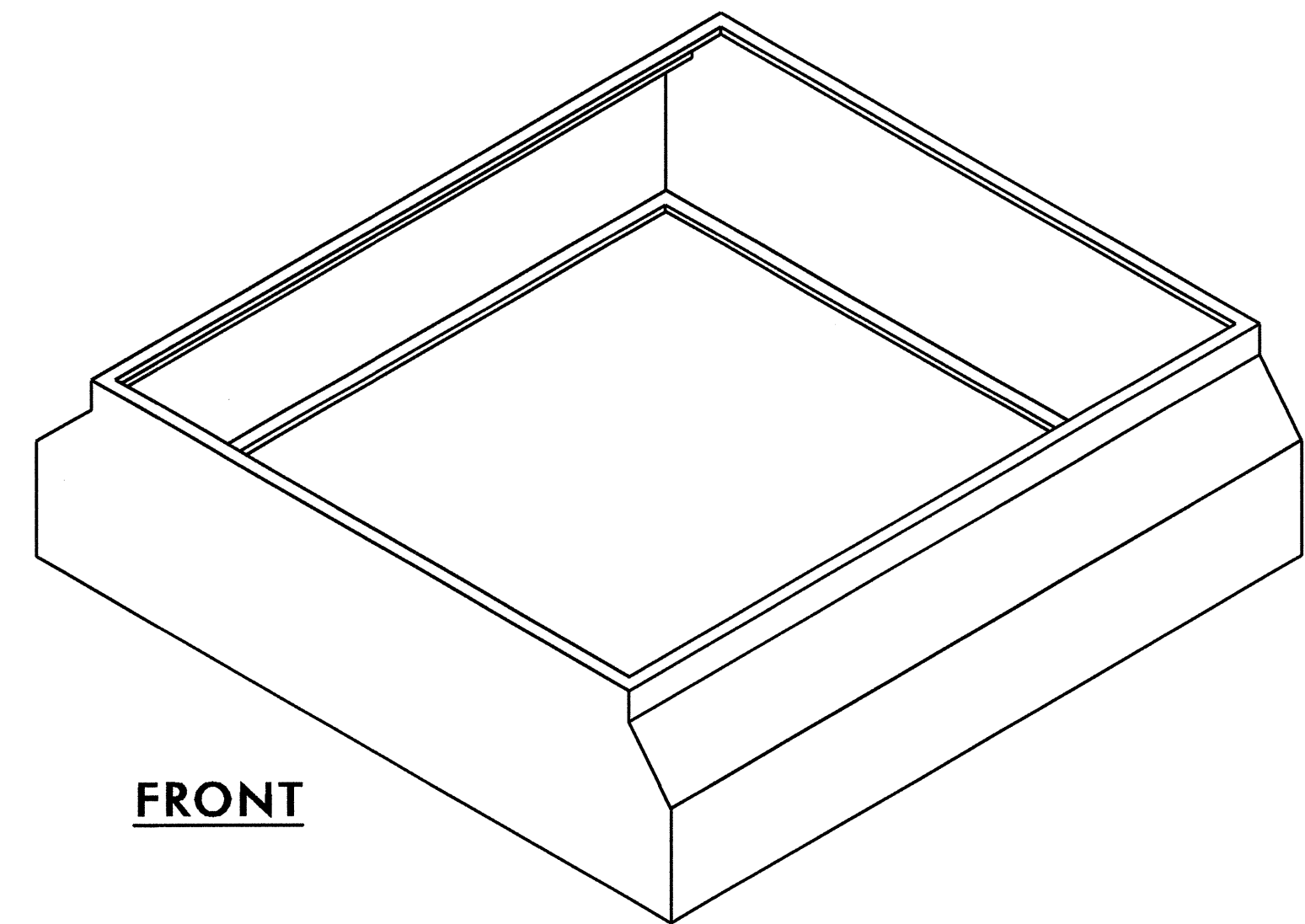


**RIGHT SIDE VIEW**

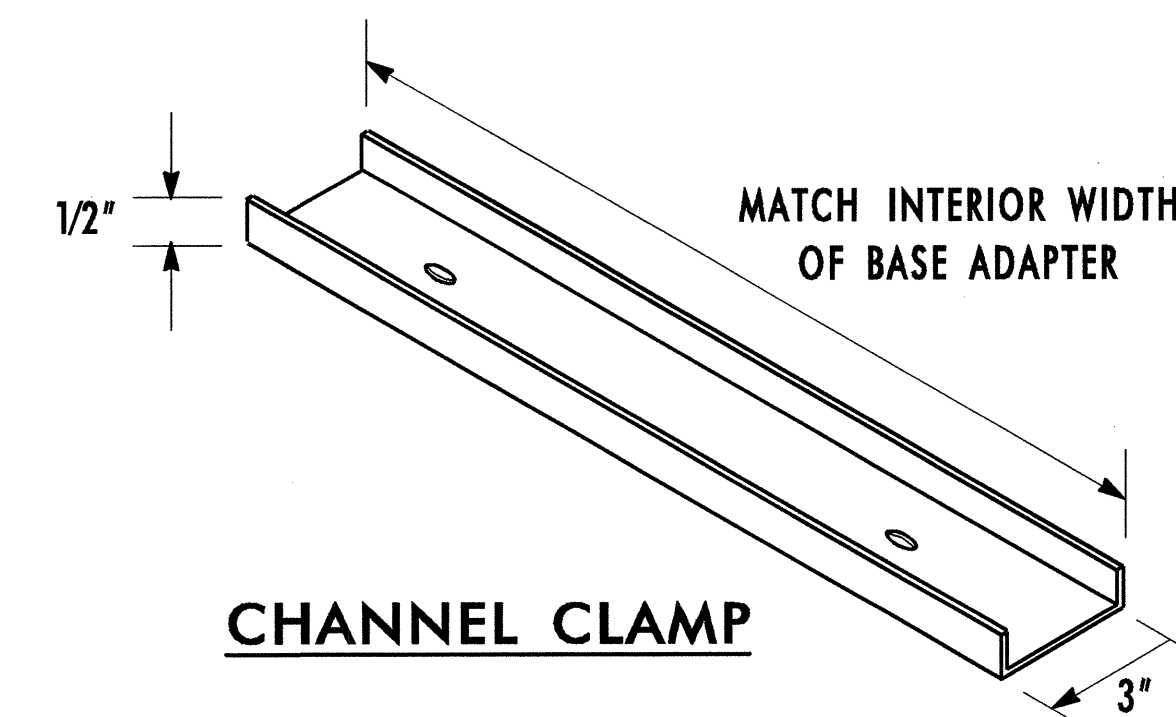


**SECTION 'A - A'**

**BASE ADAPTER**



**FRONT**



**CHANNEL CLAMP**

**NOTES FOR BASE ADAPTER**

1. FURNISH BASE ADAPTERS WITH FLANGES BOTH TOP AND BOTTOM SIZED AS SHOWN.
2. DRILL HOLES IN CHANNEL CLAMP TO MATCH ANCHOR BOLTS AND CABINET FLANGE BOLT HOLES.
3. APPLY CONTINUOUS, CLEAR, FLEXIBLE, WATERPROOF SEALANT TO TOP AND BOTTOM FLANGES TO SEAL TOP CONNECTION WITH THE CABINET AND BOTTOM CONNECTION WITH THE CABINET FOUNDATION.

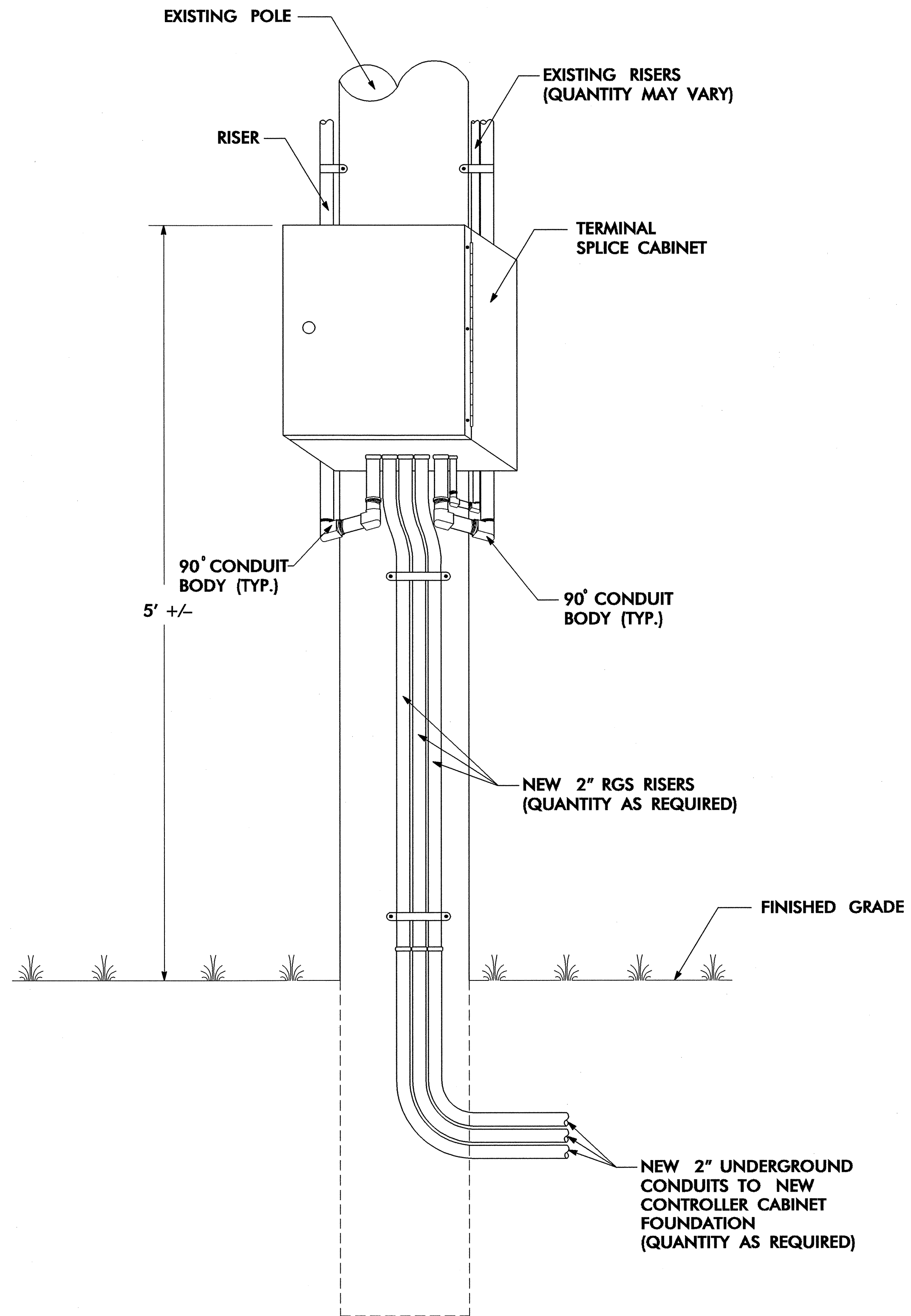
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**WILMINGTON**  
NORTH CAROLINA  
305 Chestnut Street  
4th Floor, Tower  
Wilmington, NC 28402


**PBS&J** 1616 EAST WILLBROOK ROAD, SUITE 310  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888


		<p>Prepared for the Offices of: Traffic Engineering and Signal Control CITY OF WILMINGTON Department of Transportation</p>		<p>Wilmington Signal System Typical Detail Base Adapter Detail</p>		<p>SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19962 HAILED BADGETT, III</p>	
<p>Division 03 New Hanover County Wilmington</p>		<p>PLAN DATE: July 2008 REVIEWED BY: HA Badgett</p>		<p>PREPARED BY: DEC REVIEWED BY: DL Jones</p>		<p>REVISIONS</p>	
<p>SCALE NOT TO SCALE</p>		<p>INIT.</p>		<p>DATE</p>		<p>SIGNATURE: <i>DL Badgett</i> DATE: <i>7/25/08</i></p>	
<p>CADD File Name: SD 2-6.DGN</p>							

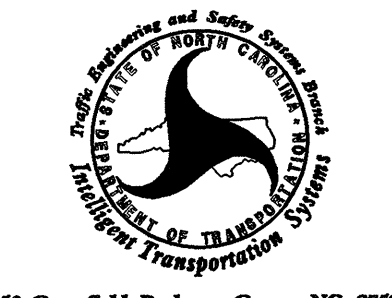
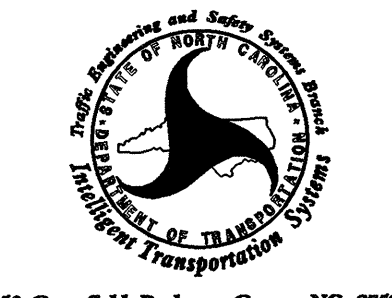

# TERMINAL SPLICE CABINET DETAIL



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 18256

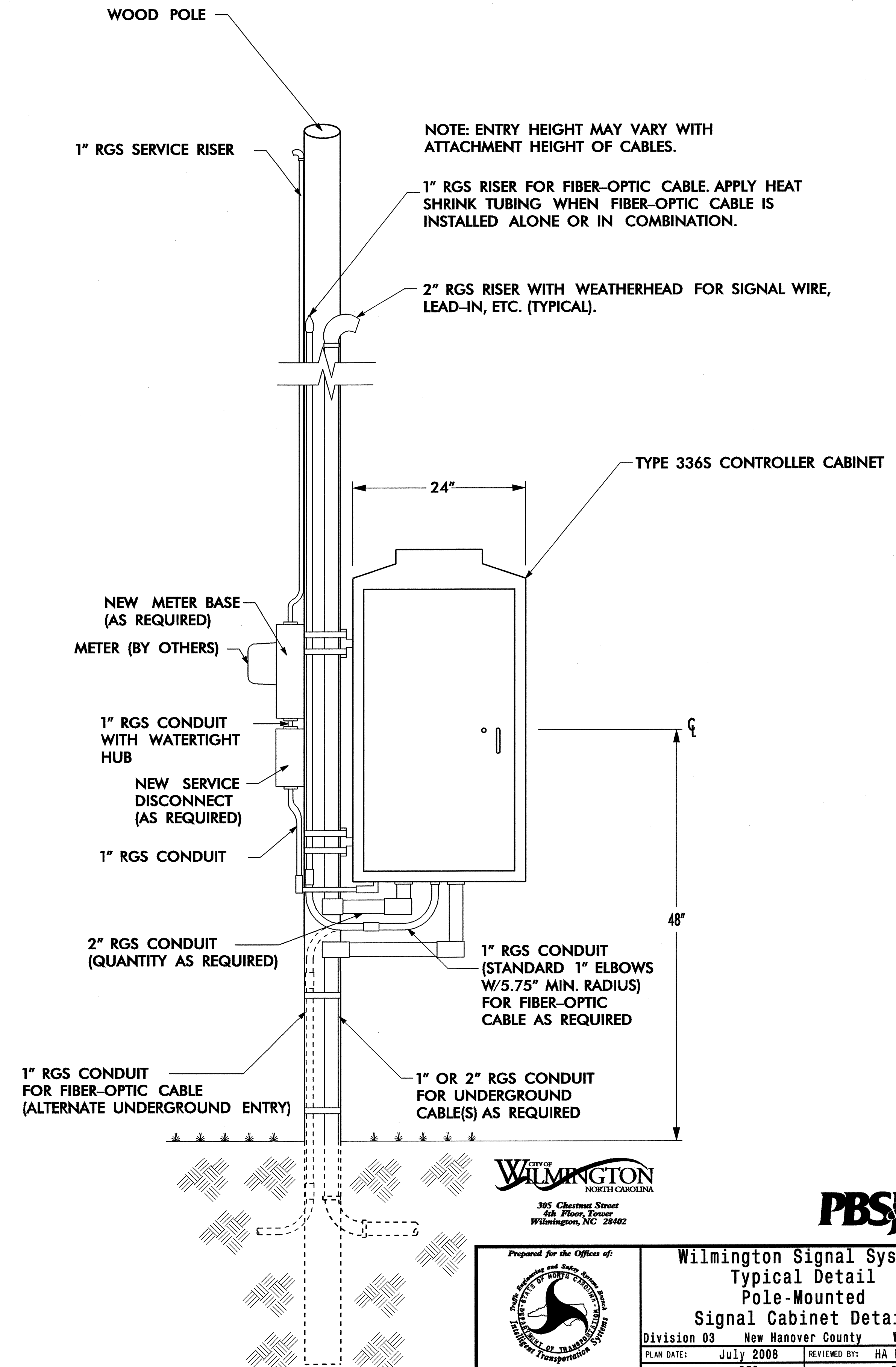
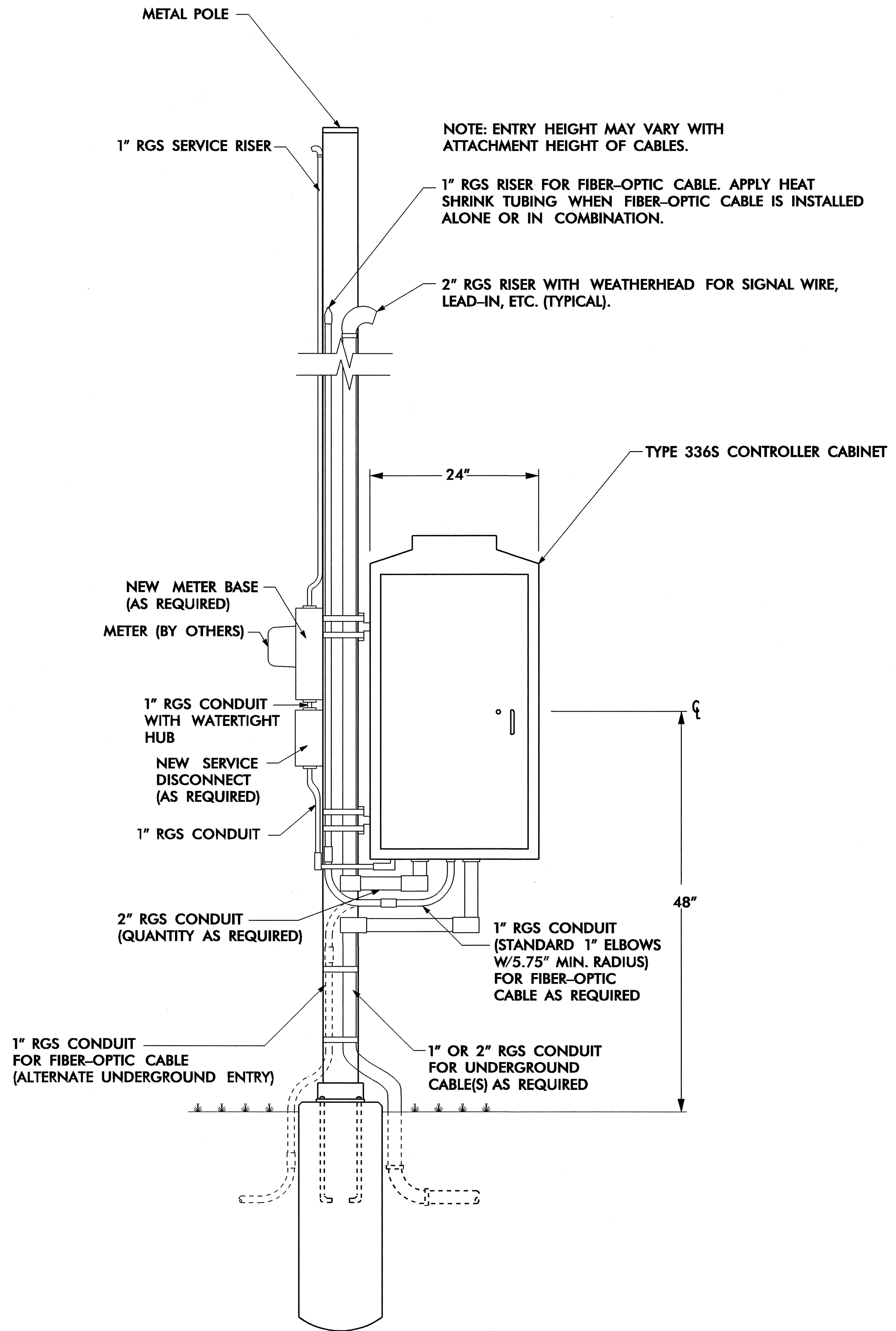
  
 CITY OF WILMINGTON  
 NORTH CAROLINA  
 305 Chestnut Street  
 4th Floor, Tower  
 Wilmington, NC 28402

 1616 EAST MILLBROOK ROAD, SUITE 310  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 876-6888

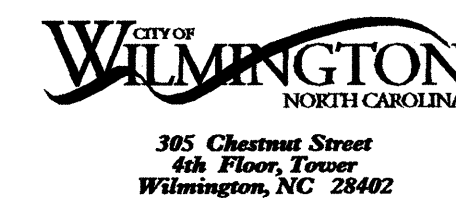
 Prepared for the Offices of:  City of Wilmington Department of Transportation 750 Greenfield Parkway, Carrboro, NC 27529	<b>Wilmington Signal System</b> <b>Typical Detail</b> <b>Terminal Splice Cabinet Detail</b>		SEAL  NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 10002 DL JONES
	Division 03 New Hanover County Wilmington PLAN DATE: July 2008 REVIEWED BY: HA Badgett PREPARED BY: DEC REVIEWED BY: DL Jones SCALE: NOT TO SCALE REVISIONS: _____ INIT. DATE: _____ SIGNATURE: _____ DATE: _____ CADD Filename: SD 2-07.DGN		



## POLE-MOUNTED SIGNAL CABINET DETAIL



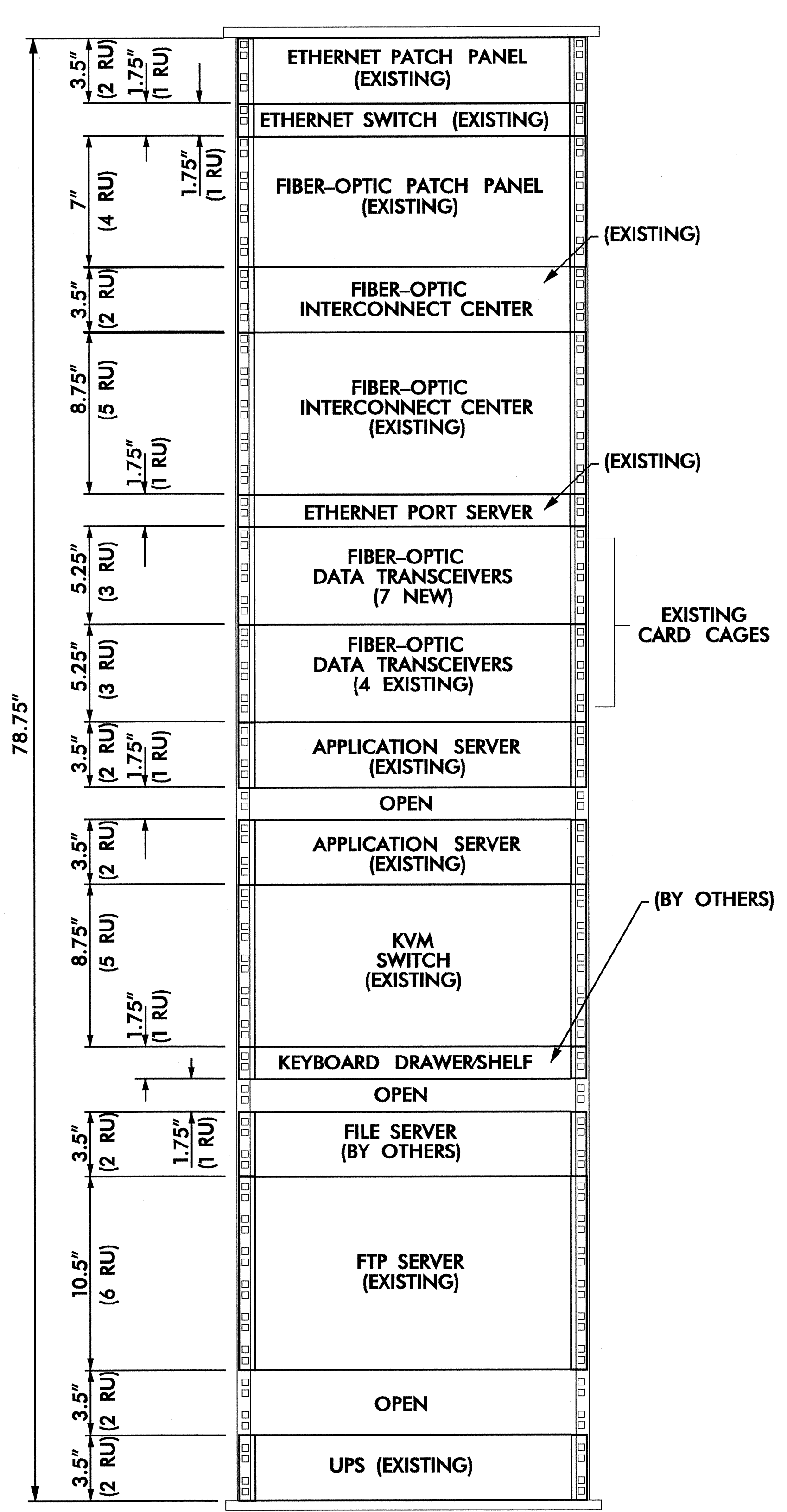
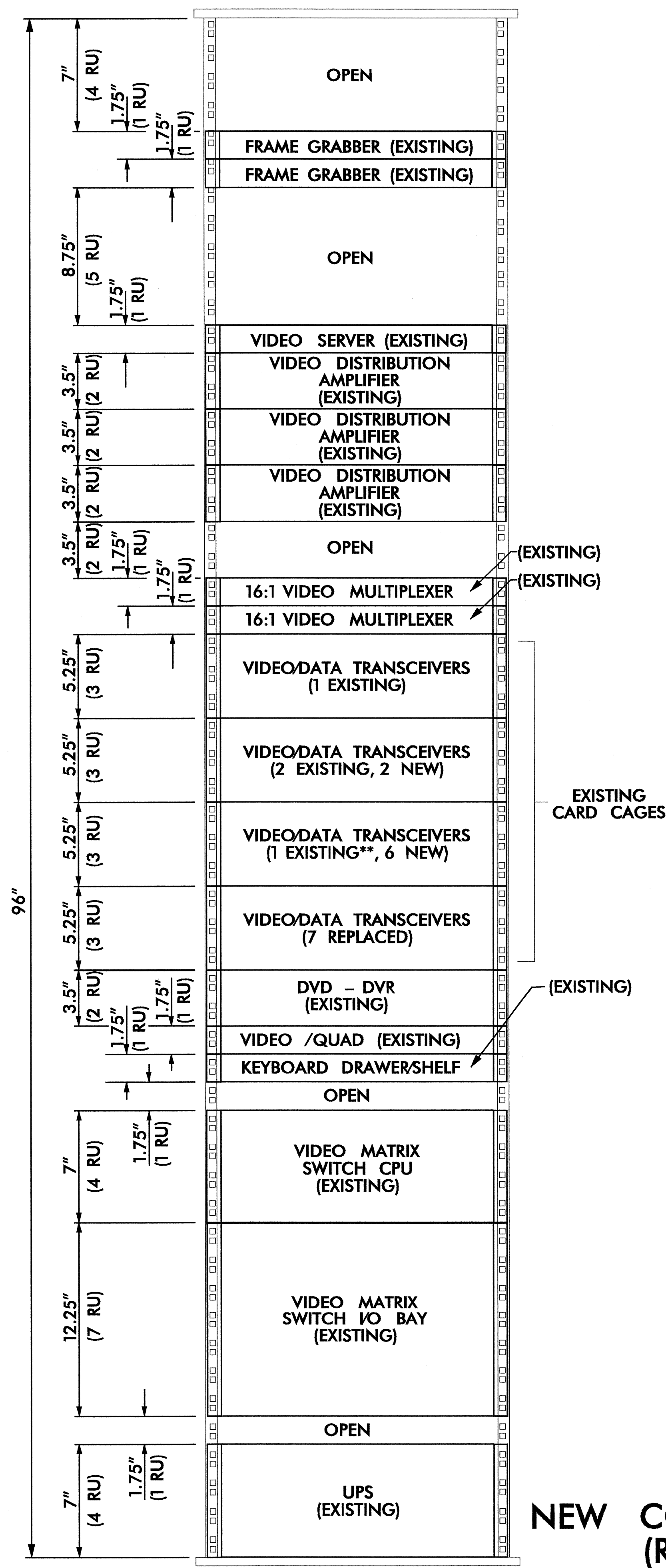
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 18566



**PBS** 1616 EAST HILLBROOK ROAD, SUITE 310  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 876-6888

Prepared for the Offices of: 		<b>Wilmington Signal System</b> <b>Typical Detail</b> <b>Pole-Mounted</b> <b>Signal Cabinet Detail</b>		SEAL 
Division 03 New Hanover County Wilmington		PLAN DATE: July 2008 REVIEWED BY: HA Badgett		SIGNATURE: <i>Alfred Badgett</i> / 7/25/08 DATE:
PREPARED BY: DEC		REVIEWED BY: DL Jones		
SCALE NOT TO SCALE		REVISIONS _____ INIT. DATE		CAD/Filename: SD 2-08.DGN





- NOTE:
1. ALL EQUIPMENT NOT LABELED AS EXISTING IS PROPOSED.
  2. EXISTING FRAME GRABBER IS LABELED AS "EIC TRANSMITTER".
  3. EXISTING VIDEO SERVER IS LABELED AS "EIC SERVER".

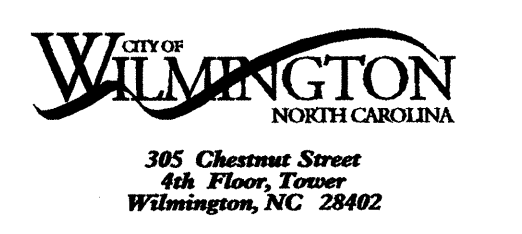
**NEW COMMUNICATIONS RACK  
(RACK BY OTHERS)**

**VIDEO/DATA TRANSCEIVERS**

1 EXISTING TRANSMITTER
2 EXISTING AND 2 NEW RECEIVERS
1 EXISTING** AND 6 EXISTING RECEIVERS
7 REPLACED RECEIVERS

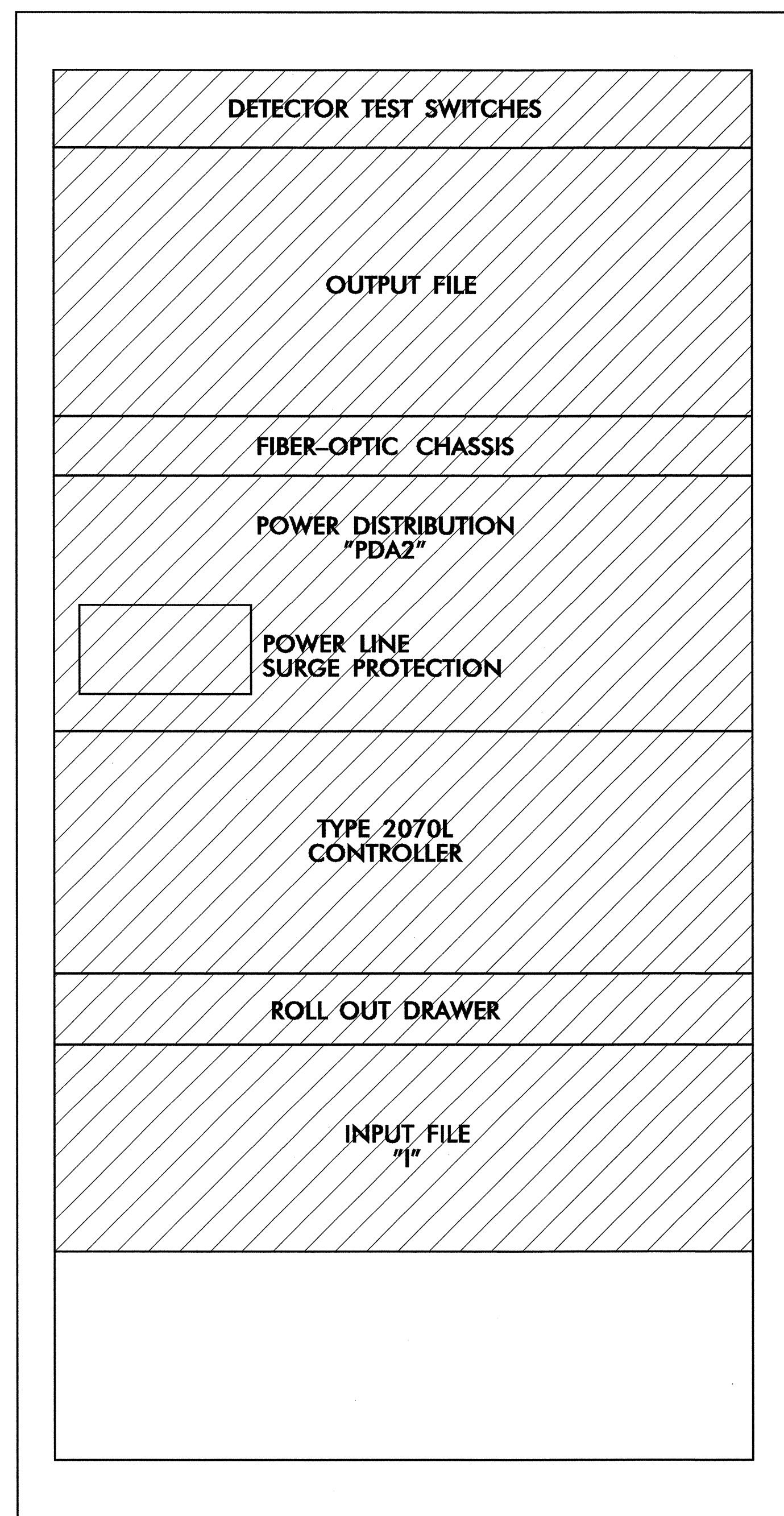
\*\* THIS EXISTING VIDEO/DATA RECEIVER IS OLDER MODEL EQUIPMENT RETAINED FROM OLD RACK (FOR CCTV-9)

09-SEP-2008 09:37  
C:\EC\curr\200317.01 - Wilmington Sig Sys\SpecDetail\Phase 2\SD 2-09.dgn  
18556

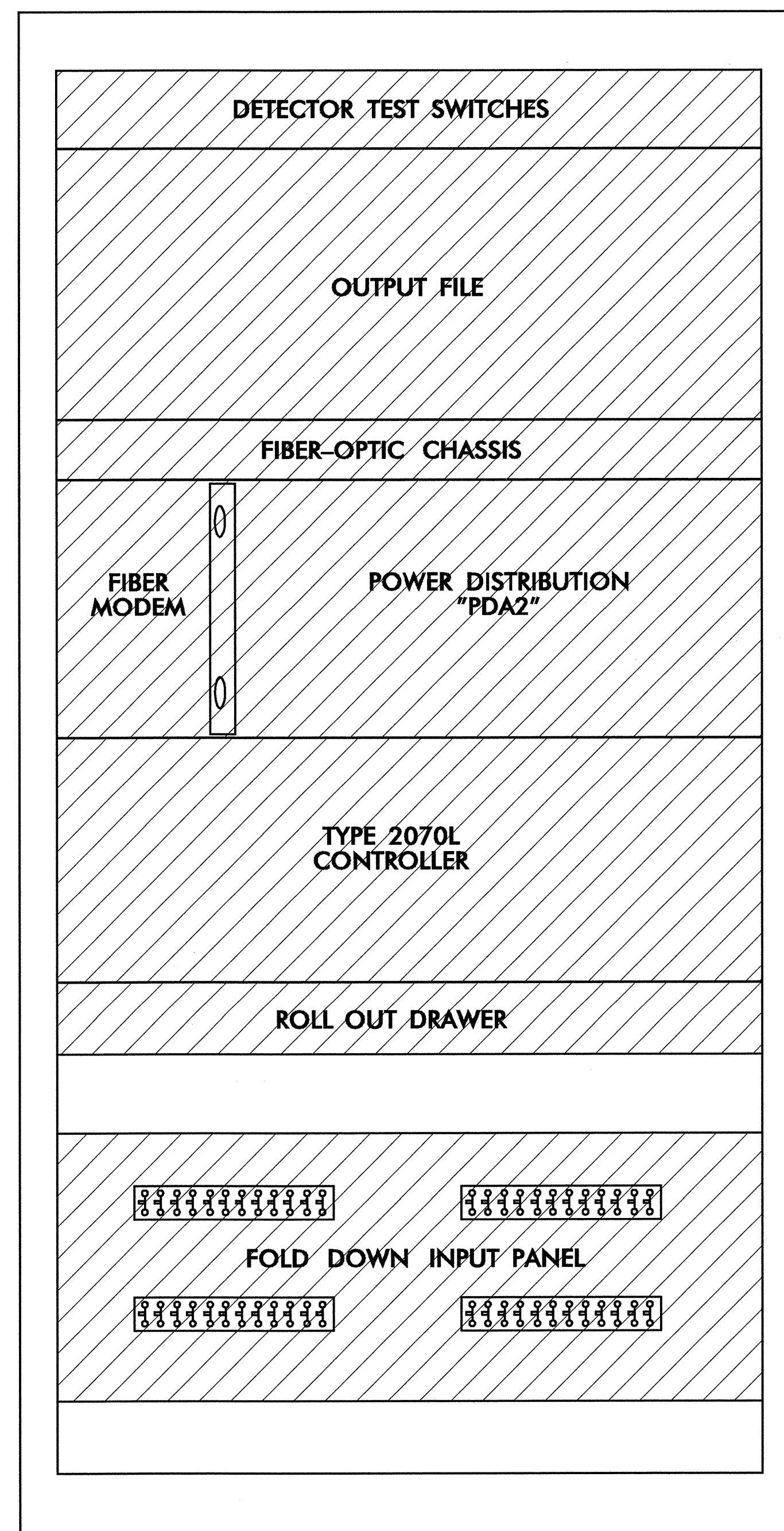


**PBSI** 1616 EAST WILLBROOK ROAD, SUITE 310  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888

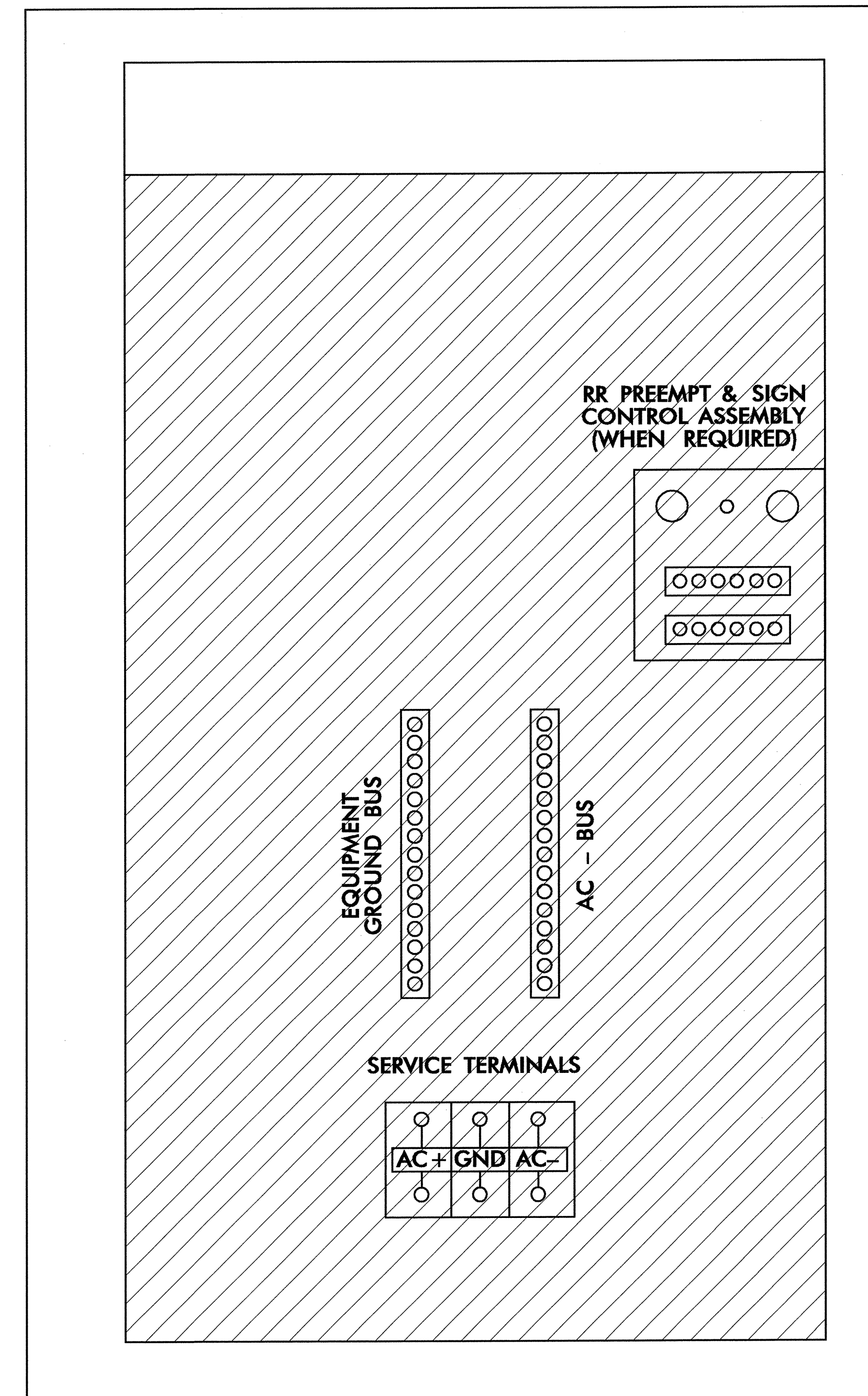
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	Division 03 New Hanover County Wilmington PLAN DATE: July 2008 PREPARED BY: DEC REVISIONS:	REVIEWED BY: HA Badgett REVIEWED BY: DL Jones INIT. DATE:
SCALE NOT TO SCALE	SIGNATURE: <i>David M. Jones</i> DATE: 09/09/08	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER DAVID M. JONES 23535



TYPE 336S TRAFFIC SIGNAL CABINET  
FRONT VIEW

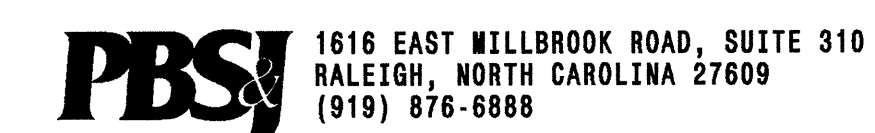
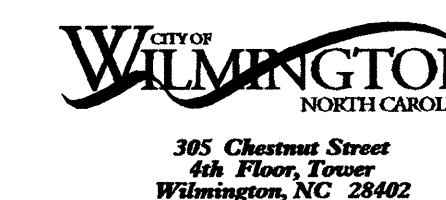


TYPE 336S TRAFFIC SIGNAL CABINET  
REAR VIEW



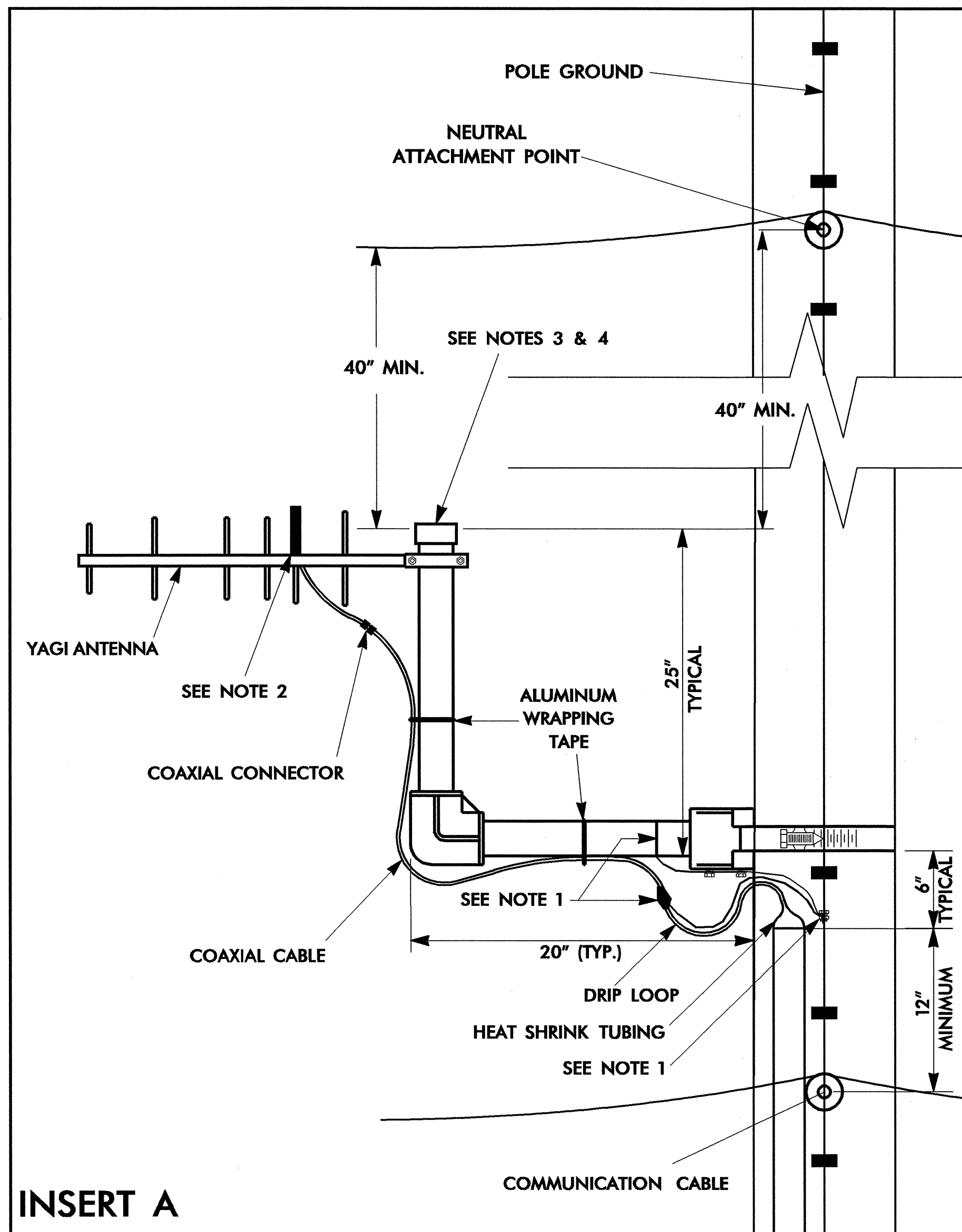
TYPE 336S TRAFFIC SIGNAL CABINET  
RIGHT SIDE VIEW

23-JUL-2008 11:26  
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 18566



	Prepared for the Offices of: <b>Wilmington Signal System</b> Special Detail Reconfigured Pole-Mounted 336S Cabinet		SEAL 
	Division 03 New Hanover County Wilmington	PLAN DATE: July 2008 REVIEWED BY: HA Badgett	
750 Greenfield Parkway, Garner, NC 27529	PREPARED BY: DEC	REVIEWED BY: DL Jones	SIGNATURE: <i>Alfred Badgett</i> 7/25/08 DATE:
SCALE NOT TO SCALE	REVISIONS	INIT. DATE	CADD Filename: SD 2-10.DGN

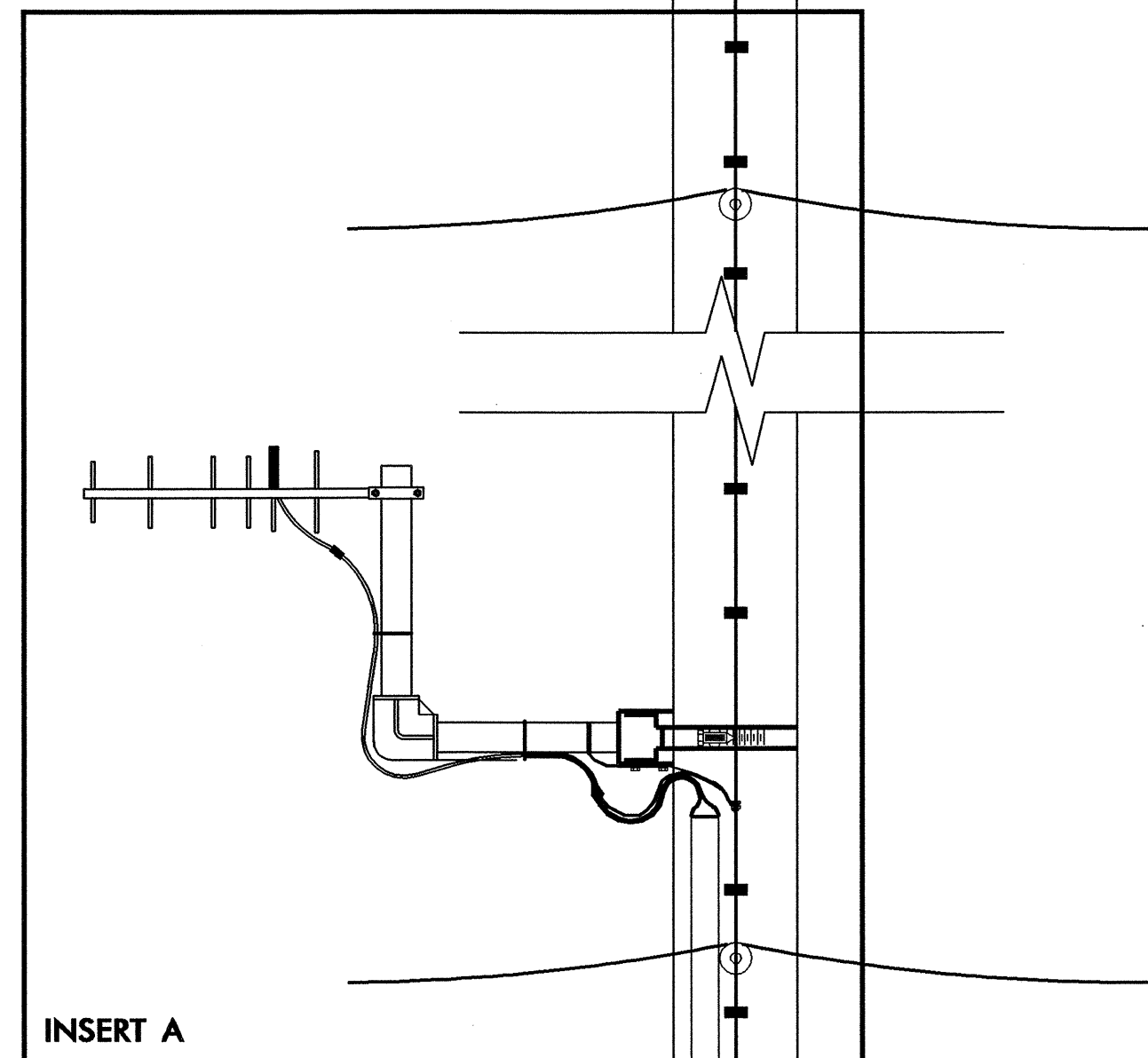




INSERT A

NOTES

- WOOD POLE — BOND # 6 AWG SOLID BARE COPPER WIRE TO ANTENNA SUPPORT USING UL LISTED PIPE CLAMP. BOND OTHER END OF # 6 AWG SOLID BARE COPPER WIRE TO THE POLE GROUND USING A SPLIT BOLT CONNECTOR. BOND SHIELD OF COAXIAL CABLE WITH AN APPROVED GROUNDING SYSTEM (USING #6 AWG STRANDED COPPER WIRE) BONDED TO THE POLE GROUND. WEATHERPROOF THE CONNECTION ONCE THE GROUNDING SYSTEM IS INSTALLED. ENSURE "POLE GROUND" IS IN PLACE.  
METAL POLE — BOND # 6 AWG SOLID BARE COPPER WIRE TO ANTENNA SUPPORT USING UL LISTED PIPE CLAMP. BOND OTHER END OF # 6 AWG SOLID BARE COPPER WIRE TO THE POLE OR EXISTING SYSTEM GROUND USING A METHOD APPROVED BY THE ENGINEER. BOND SHIELD OF COAXIAL CABLE WITH AN APPROVED GROUNDING SYSTEM (USING #6 AWG STRANDED COPPER WIRE) BONDED TO THE POLE BY A METHOD APPROVED BY THE ENGINEER. WEATHERPROOF THE CONNECTION ONCE THE GROUNDING SYSTEM IS INSTALLED. ENSURE "SYSTEM GROUND" IS IN PLACE.
- YAGI ANTENNA SHOWN IN VERTICAL POLARIZATION POSITION FOR CLARIFICATION. TYPICALLY INSTALL ANTENNA IN HORIZONTAL POLARIZATION POSITION.
- TO CONSERVE VERTICAL SPACING ON THE POLE, INSTALL THE ANTENNA MOUNTING HARDWARE USING ONE OF THE TWO METHODS LISTED BELOW: (ENSURE THAT THE MOUNTING METHOD DOES NOT DEGRADE THE ANTENNA'S SIGNAL INTEGRITY)
  - ROTATE THE VERTICAL SUPPORT ARM 90 DEGREES SUCH THAT THE ANTENNA IS AT THE SAME HEIGHT AS THE HORIZONTAL SUPPORT ARM.
  - ELIMINATE THE VERTICAL SUPPORT ARM AND MOUNT THE ANTENNA TO THE HORIZONTAL SUPPORT ARM.
  - ANTENNA AND ANTENNA SUPPORT ARM TO MAINTAIN A 40" SEPARATION FROM NEUTRAL /POWER AND 12" FROM OTHER UTILITIES.
- INSTALL AN END CAP TO SEAL THE EXPOSED END OF THE MOUNTING PIPE.



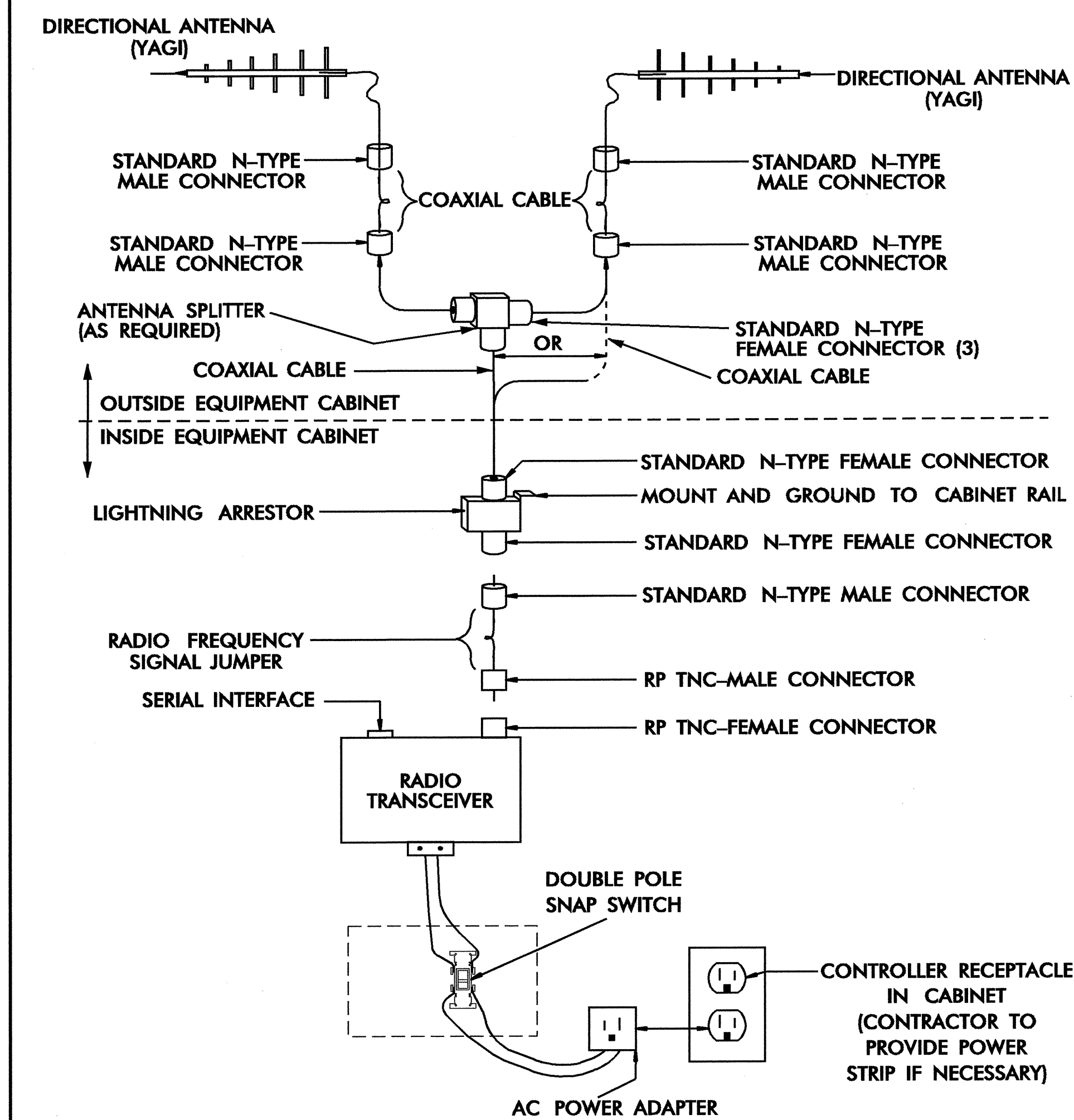
INSERT A

1-2" RISER FOR COAXIAL CABLE

POLE MOUNT EQUIPMENT CABINET

BOND # 6 AWG BARE COPPER WIRE "POLE GROUND" TO RISER USING A UL LISTED PIPE CLAMP

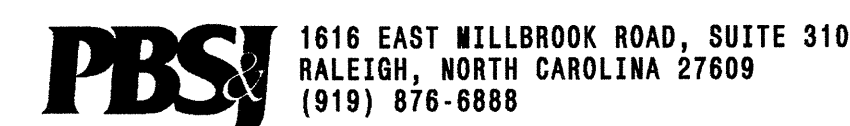
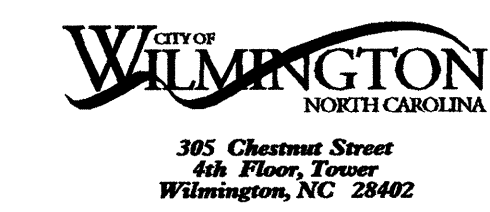
ANTENNA AND COAXIAL CABLE CONNECTION SCHEMATIC



NOTES

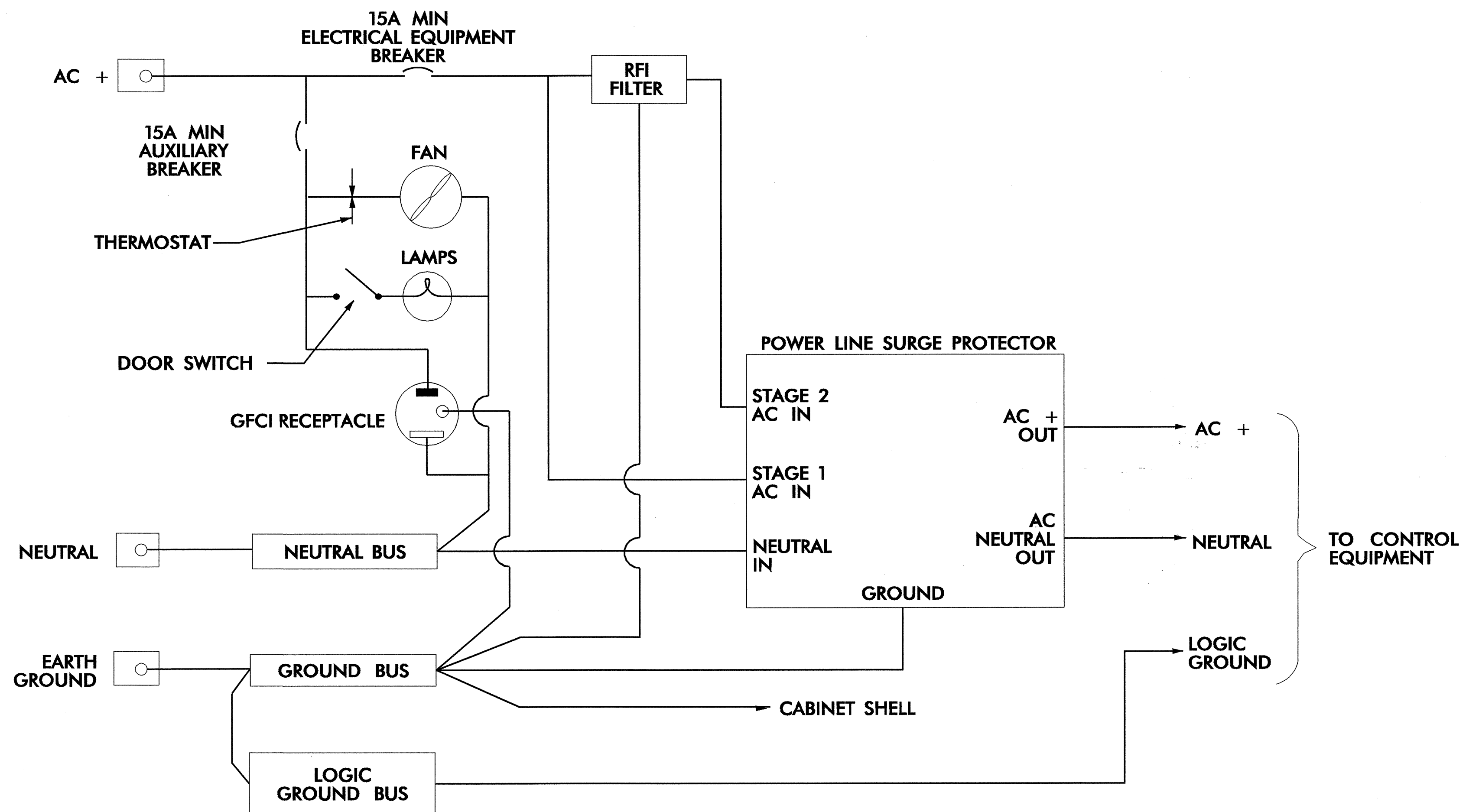
- SECOND ANTENNA AND ANTENNA SPLITTER ONLY USED FOR REPEATER SITES.

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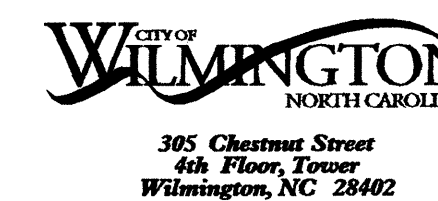


	<p>Wilmington Signal System Typical Detail 900 MHz Radio Antenna</p>		SEAL
	<p>Division 03 New Hanover County Wilmington</p>	<p>PLAN DATE: July 2008 REVIEWED BY: HA Badgett</p>	<p>DATE</p>
<p>750 Greenfield Parkway, Garner, NC 27529</p>	<p>PREPARED BY: DEC REVIEWED BY: DL Jones</p>	<p>REVISIONS</p>	<p>INIT. DATE</p>
<p>SCALE NOT TO SCALE</p>	<p>SIGNATURE</p>	<p>DATE</p>	<p>CADD File Name: SD 2-11.DGN</p>





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 18566



**PBS** 1616 EAST MILLBROOK ROAD, SUITE 310  
 RALEIGH, NORTH CAROLINA 27609  
 (919) 876-6888

Prepared for the Office of: 		<b>Wilmington Signal System</b> <b>Typical Detail</b> <b>Wiring and Grounding Schematic</b> <b>Radio Equipment</b>		SEAL 
Division 03 New Hanover County Wilmington		PLAN DATE: July 2008 REVIEWED BY: HA Badgett		SIGNATURE: <i>Alfred Badgett</i> DATE: 7/23/08
PREPARED BY: DEC REVIEWED BY: DL Jones		REVISIONS INIT. DATE		
SCALE: NONE		CADD Filename: SD 2-12.dgn		

# POLE-MOUNTED CCTV CABINET DETAIL

METAL POLE  
CCTV CAMERA

NOTE: ENTRY HEIGHT MAY VARY WITH ATTACHMENT HEIGHT OF CABLES.

2" RGS RISER WITH WEATHERHEAD FOR COMPOSITE CCTV CABLE.

1" RGS RISER FOR FIBER-OPTIC CABLE AS REQUIRED. APPLY HEAT SHRINK TUBING WHEN FIBER-OPTIC CABLE IS INSTALLED. USE WEATHERHEAD WHEN CAT 5E CABLE IS INSTALLED.

NEW METER BASE (AS REQUIRED)  
METER (BY OTHERS)

1" RGS CONDUIT WITH WATERTIGHT HUB

NEW SERVICE DISCONNECT (AS REQUIRED)

1" RGS CONDUIT

2" RGS CONDUIT

1" RGS CONDUIT FOR ELECTRIC SERVICE

1" RGS CONDUIT FOR FIBER-OPTIC CABLE (ALTERNATE UNDERGROUND ENTRY)

UNDERGROUND SERVICE LATERAL CONDUCTORS INSTALLED BY UTILITY COMPANY

TYPE 336 CCTV CABINET

48"

1" RGS CONDUIT (STANDARD 1" ELBOWS W/5.75" MIN. RADIUS) FOR FIBER-OPTIC CABLE

1" RGS CONDUIT FOR UNDERGROUND SERVICE OR CAT 5E CABLE (QUANTITY AS REQUIRED)

WOOD POLE  
CCTV CAMERA

NOTE: ENTRY HEIGHT MAY VARY WITH ATTACHMENT HEIGHT OF CABLES.

2" RGS RISER WITH WEATHERHEAD FOR COMPOSITE CCTV CABLE.

1" RGS RISER FOR FIBER-OPTIC CABLE AS REQUIRED. APPLY HEAT SHRINK TUBING WHEN FIBER-OPTIC CABLE IS INSTALLED. USE WEATHERHEAD WHEN CAT 5E CABLE IS INSTALLED.

NEW METER BASE (AS REQUIRED)  
METER (BY OTHERS)

1" RGS CONDUIT WITH WATERTIGHT HUB

NEW SERVICE DISCONNECT (AS REQUIRED)

1" RGS CONDUIT

2" RGS CONDUIT

1" RGS CONDUIT FOR ELECTRIC SERVICE

1" RGS CONDUIT FOR FIBER-OPTIC CABLE (ALTERNATE UNDERGROUND ENTRY)

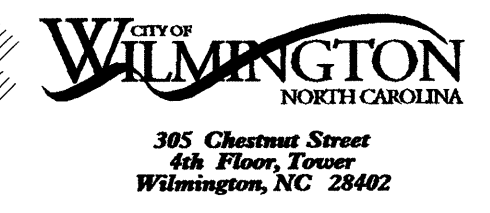
UNDERGROUND SERVICE LATERAL CONDUCTORS INSTALLED BY UTILITY COMPANY

TYPE 336 CCTV CABINET

48"

1" RGS CONDUIT (STANDARD 1" ELBOWS W/5.75" MIN. RADIUS) FOR FIBER-OPTIC CABLE

1" RGS CONDUIT FOR UNDERGROUND SERVICE OR CAT 5E CABLE (QUANTITY AS REQUIRED)

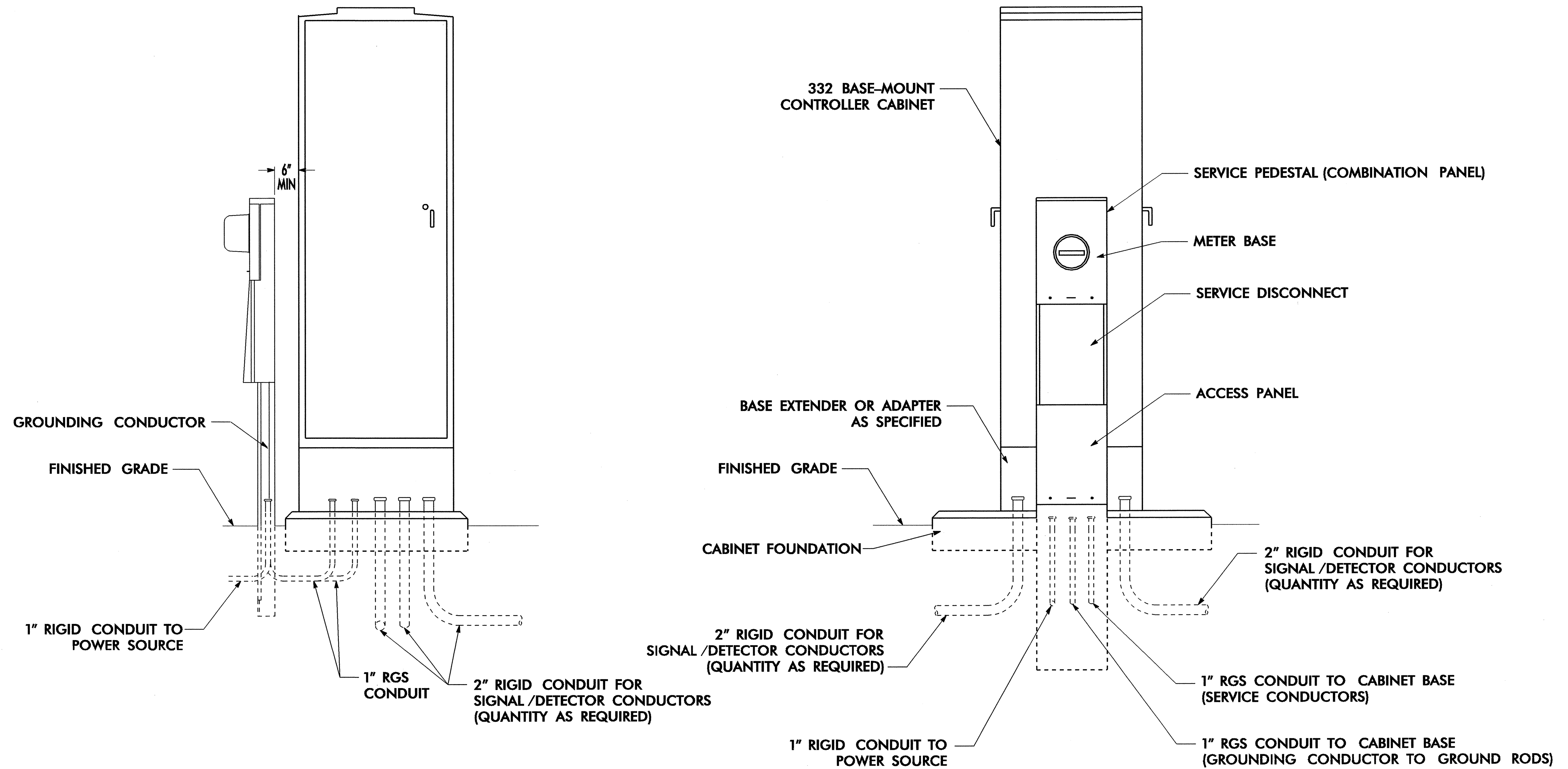


**PBS** 1616 EAST MILLBROOK ROAD, SUITE 310  
RALEIGH, NORTH CAROLINA 27609  
(919) 876-6888

	Prepared for the Offices of: <b>Wilmington Signal System</b> Typical Detail Pole-Mounted CCTV Cabinet Detail		SEAL 
	Division 03 New Hanover County Wilmington PLAN DATE: July 2008 PREPARED BY: DEC	REVIEWED BY: HA Badgett REVIEWED BY: DL Jones	

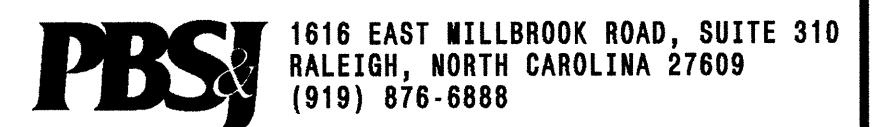
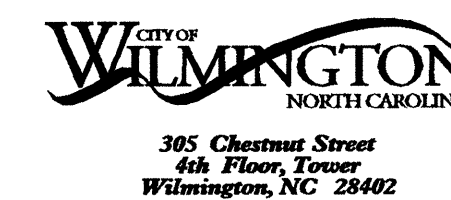
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## GROUND MOUNTED ELECTRICAL SERVICE DETAIL



### NOTES

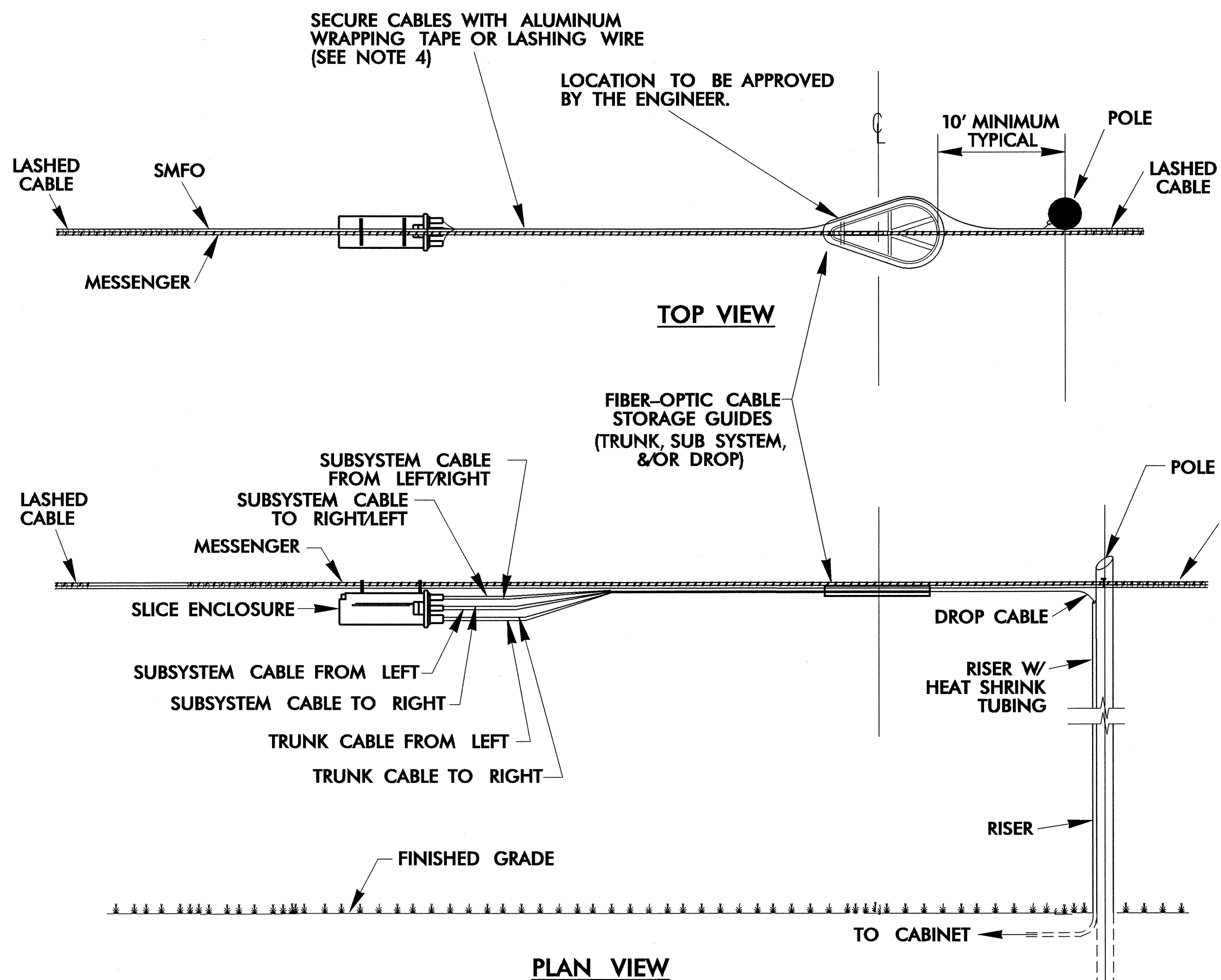
1. TEST GROUNDING SYSTEM USING AN APPROVED METHOD IN ACCORDANCE WITH SPECIAL PROVISIONS. INSTALL GROUND RODS AS DIRECTED BY THE ENGINEER TO MEET THIS REQUIREMENT.
2. REMOVE ANY EXISTING GROUND RODS IN CONCRETE CABINET FOUNDATION BY CUTTING OFF FLUSH WITH FOUNDATION SURFACE.
3. REMOVE BONDING JUMPER IN EQUIPMENT CABINET IF INSTALLED BETWEEN AC NEUTRAL AND EQUIPMENT GROUND.
4. BOND ALL RIGID GALVANIZED STEEL CONDUITS ENTERING THE CABINET TO "EQUIPMENT GROUND".
5. INSTALL RIGID GALVANIZED STEEL CONDUIT (MINIMUM 1") BETWEEN DISCONNECT AND CABINET.
6. SERVICE DISCONNECT GROUND BUS BAR SHALL PROVIDE FOR 2 #4 AWG CONNECTIONS.
7. IF CONDITIONS REQUIRE SERVICE PEDESTAL TO BE INSTALLED IN FRONT OR REAR OF CABINET, MAINTAIN SUFFICIENT CLEARANCE FOR DOOR TO FULLY OPEN.



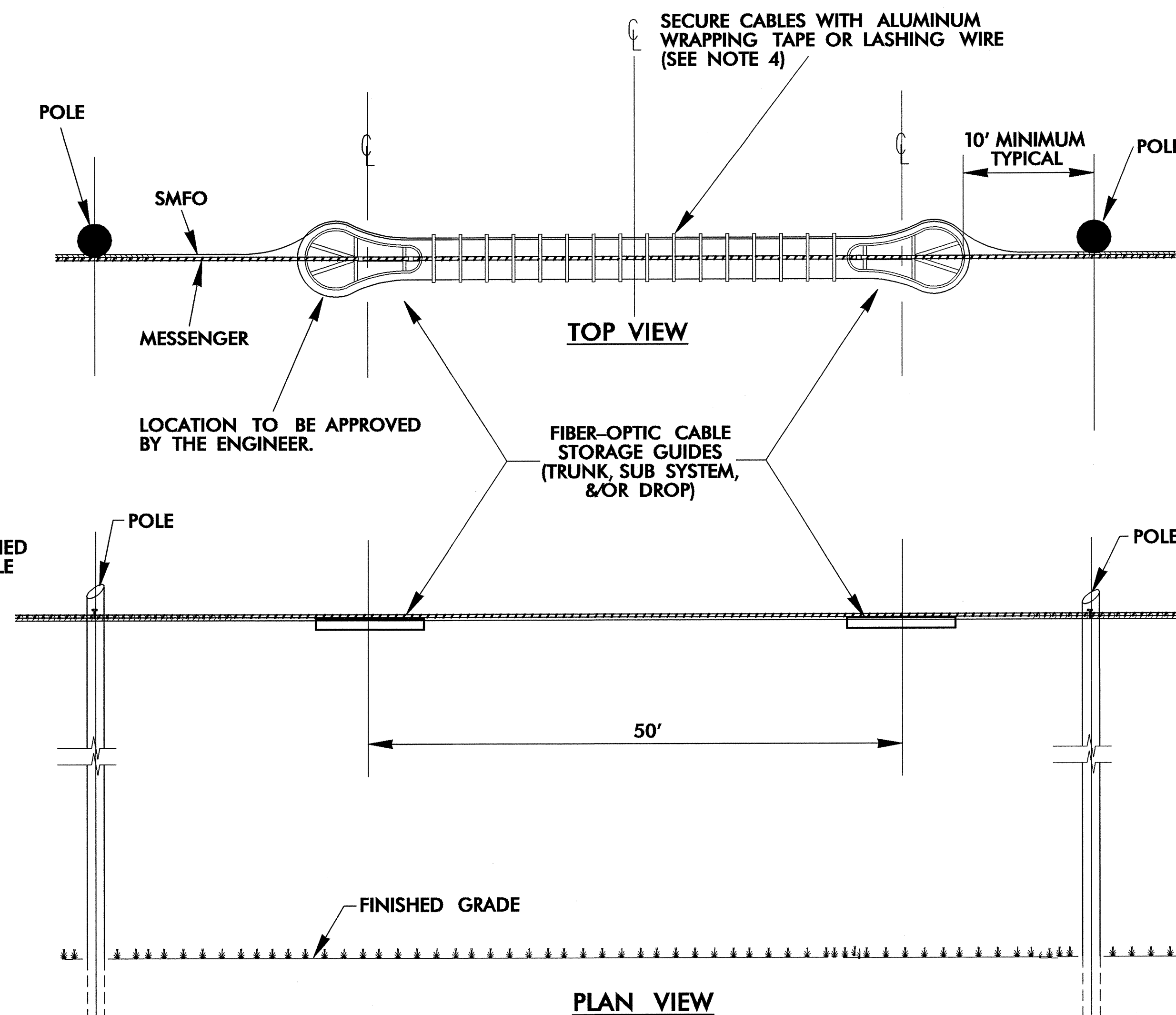
	<p><b>Wilmington Signal System</b> Typical Detail Ground Mounted Electrical Service Detail</p> <p>Division 03 New Hanover County Wilmington</p> <p>PLAN DATE: July 2008 REVIEWED BY: HA Badgett</p> <p>PREPARED BY: DEC REVIEWED BY: DL Jones</p>	<p>SEAL</p>									
<p>SCALE NOT TO SCALE</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REVISIONS</th> <th>INIT.</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REVISIONS	INIT.	DATE							<p>SIGNATURE: <i>Henry Alfred Badgett</i> DATE: 7/25/08</p> <p style="font-size: x-small;">CADD File name: SD 2-14.DGN</p>
REVISIONS	INIT.	DATE									



**SPLICE ENCLOSURE WITH STORAGE TYP. DETAIL**



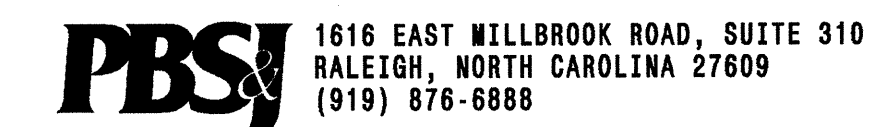
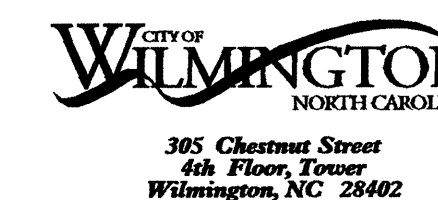
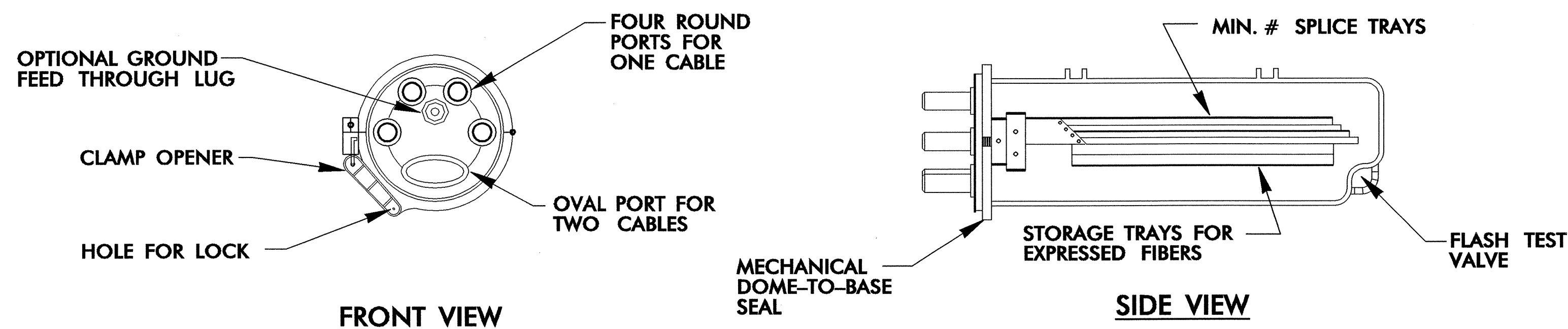
**SPARE CABLE STORAGE TYP. DETAIL**



**NOTES**

1. SPARE FIBER-OPTIC CABLE SHALL NOT BE STORED OVER ROADWAYS OR DRIVEWAYS.
2. STORE 100' OF SPARE FIBER-OPTIC CABLE WHERE SHOWN ON PLANS.
3. FIBER-OPTIC CABLE STORAGE GUIDE MATERIAL AND SIZE SHALL BE AS INDICATED IN THE PROJECT SPECIAL PROVISIONS.
4. 0.05" THICK BY 0.3" WIDE ALUMINUM WRAPPING TAPE (FOUR TURNS MINIMUM) AT 6" ON CENTER OR .061" LASHING WIRE WITH ONE 360 DEGREE SPIRAL PER FOOT.
5. FOR SPLICE ENCLOSURES:
  - A) APPLY A HEAT SOURCE, AS RECOMMENDED BY THE MANUFACTURER, TO SHRINK THE HEAT SHRINKABLE TUBING TO PROVIDE A SECURE FIT AROUND THE CABLES AND PORTS.
  - B) PERFORM A PRESSURIZATION FLASH TEST UPON CONCLUSION OF THE SPLICING AND PRIOR TO THE FINAL PLACEMENT OF THE ENCLOSURE.

**SPLICE ENCLOSURE DETAILS**



	Prepared for the Offices of: <b>Wilmington Signal System</b> Typical Detail <b>Aerial Fiber-Optic Cable Storage &amp; Splice Enclosures</b> Division 03 New Hanover County Wilmington PLAN DATE: July 2008 REVIEWED BY: HA Badgett PREPARED BY: DEC REVIEWED BY: DL Jones		SEAL 
	SCALE NOT TO SCALE	REVISIONS INIT. DATE	SIGNATURE 