

PORTAGE PUBLIC SCHOOLS

PORTAGE, MI

CENTRAL MIDDLE SCHOOL VIDEO SECURITY



PORTAGE CENTRAL MIDDLE SCHOOL
 8305 S. WESTNEDGE AVE.
 PORTAGE, MI 49002
 269.323.5600

DRAWING LIST:

- TC501 SECURITY LEGENDS, SCHEDULES & DETAILS
- TC502 SECURITY CAMERA ONE-DIAGRAM
- TC503 SECURITY CAMERA ONE-DIAGRAM
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- TC604C CENTRAL MIDDLE SCHOOL PENTHOUSE FLOOR SECURITY PLAN - AREA C

Mark	Revision	Description
	ISSUED FOR BID	10/25/19

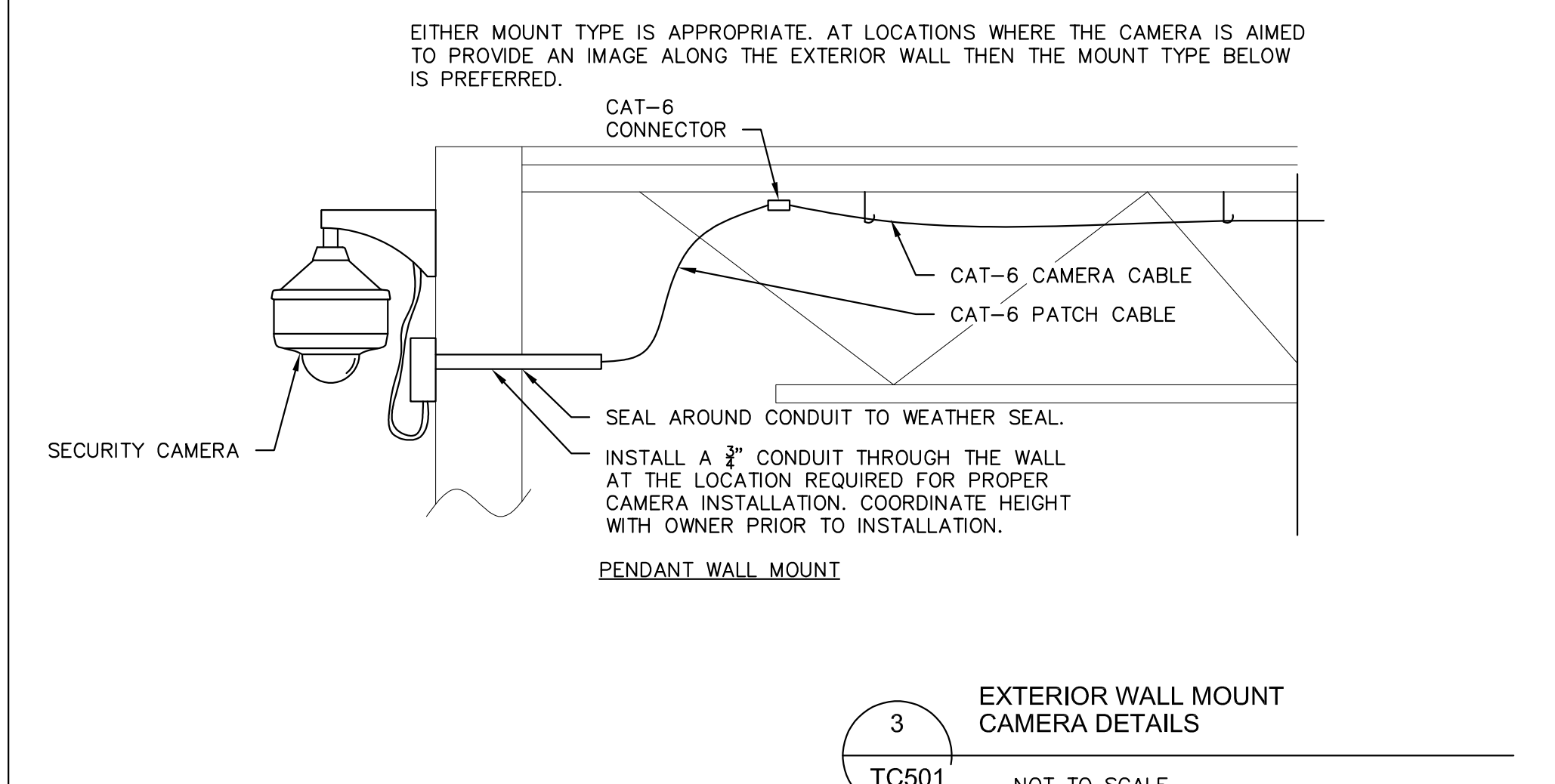
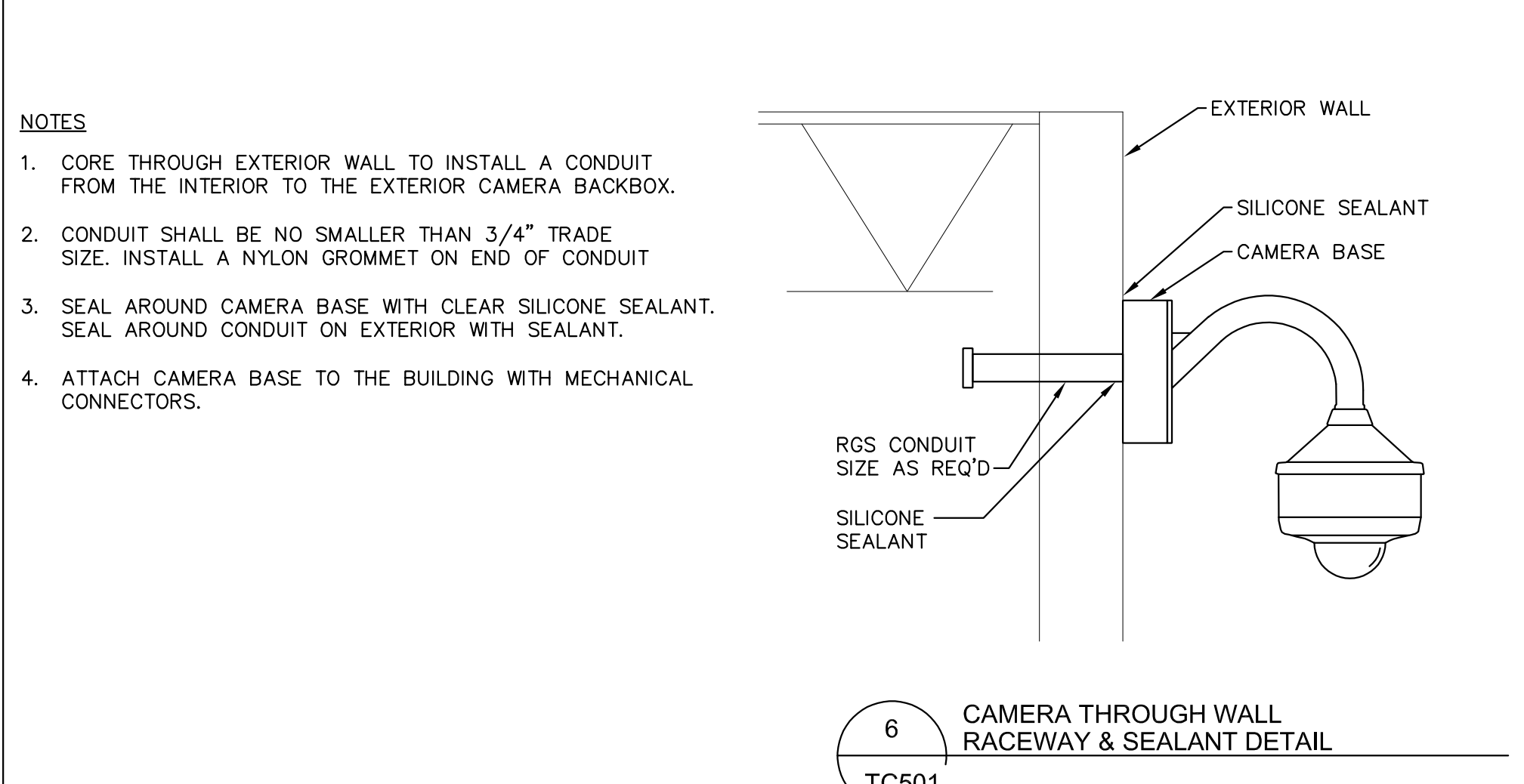
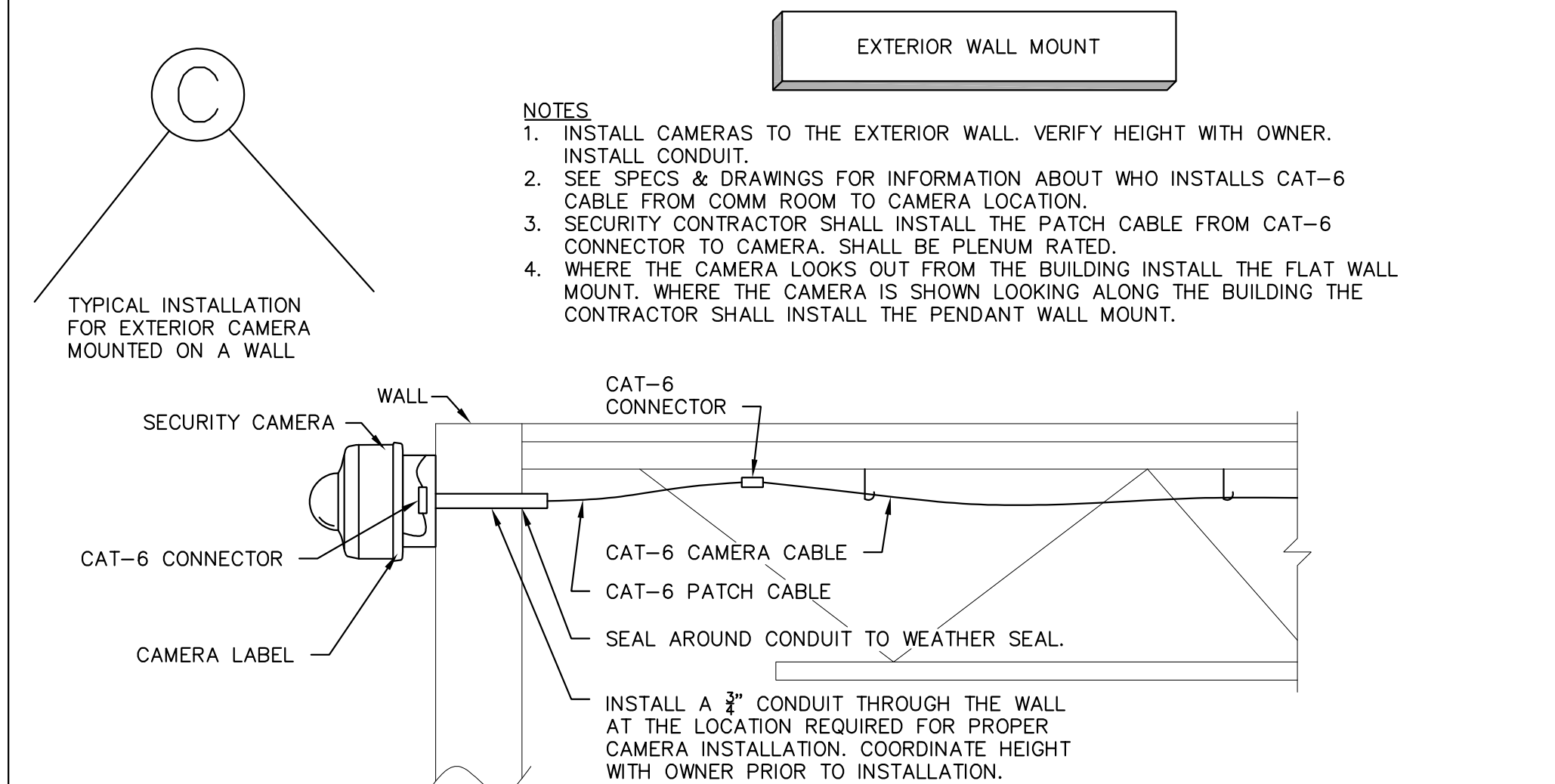
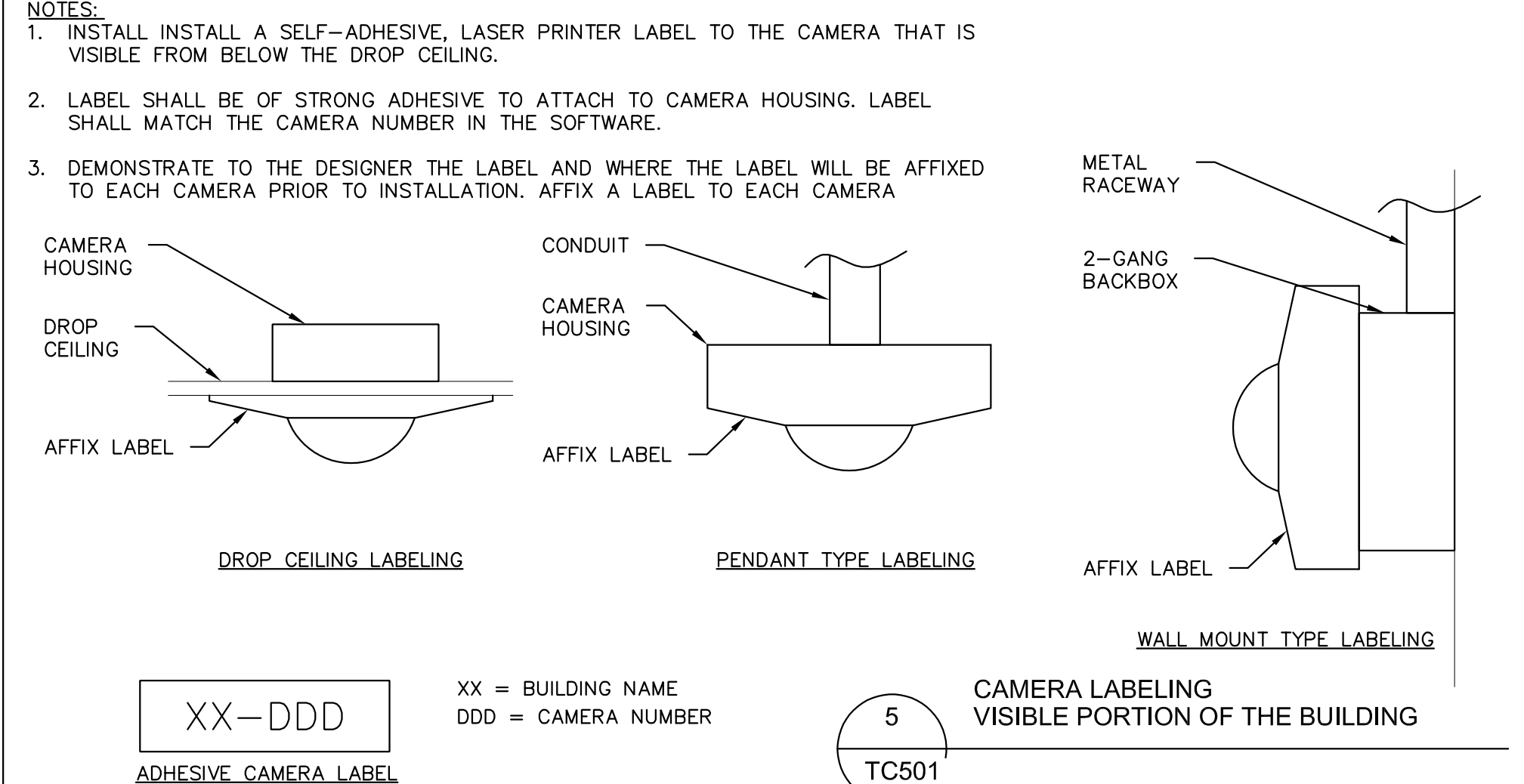
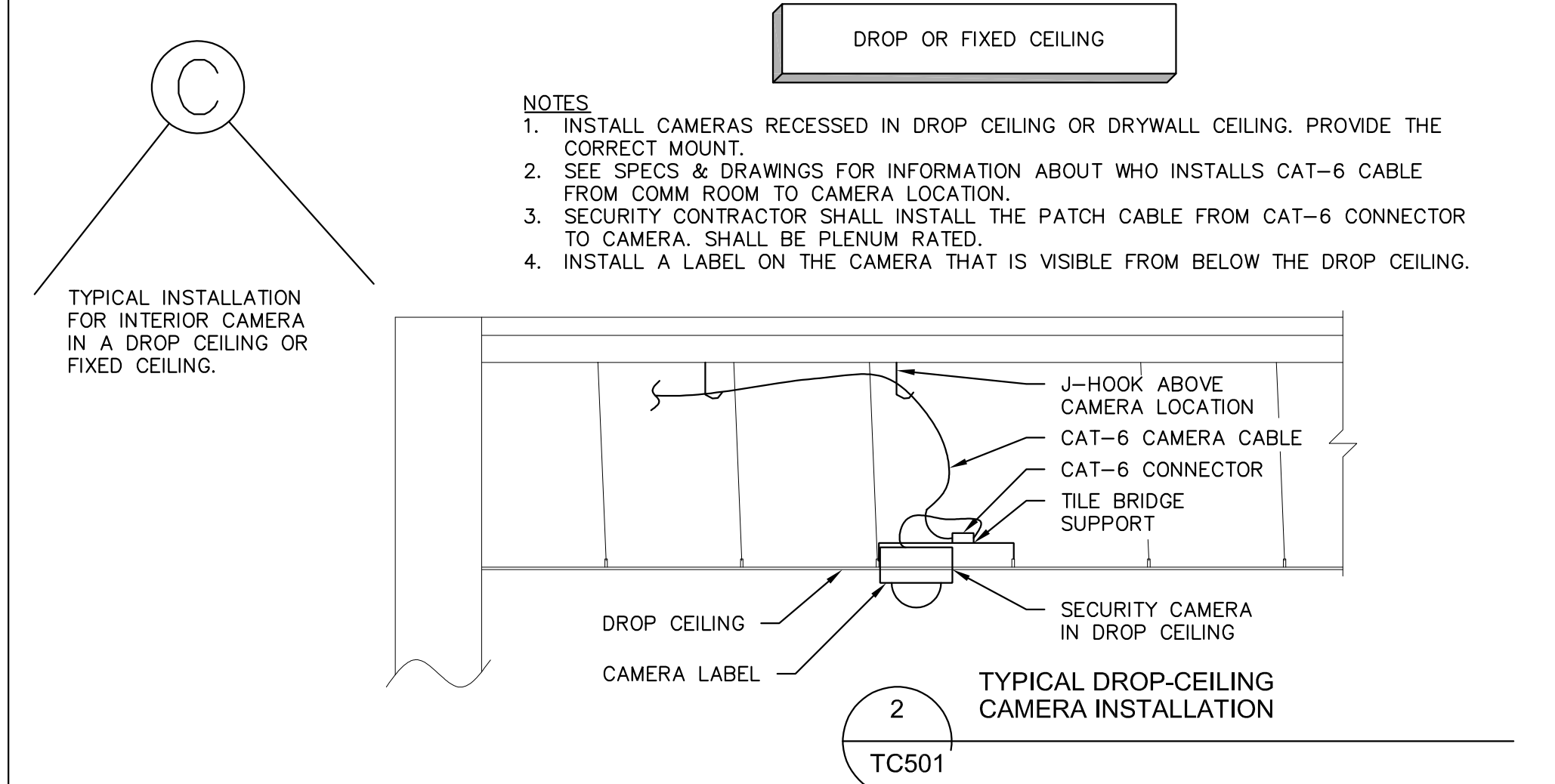
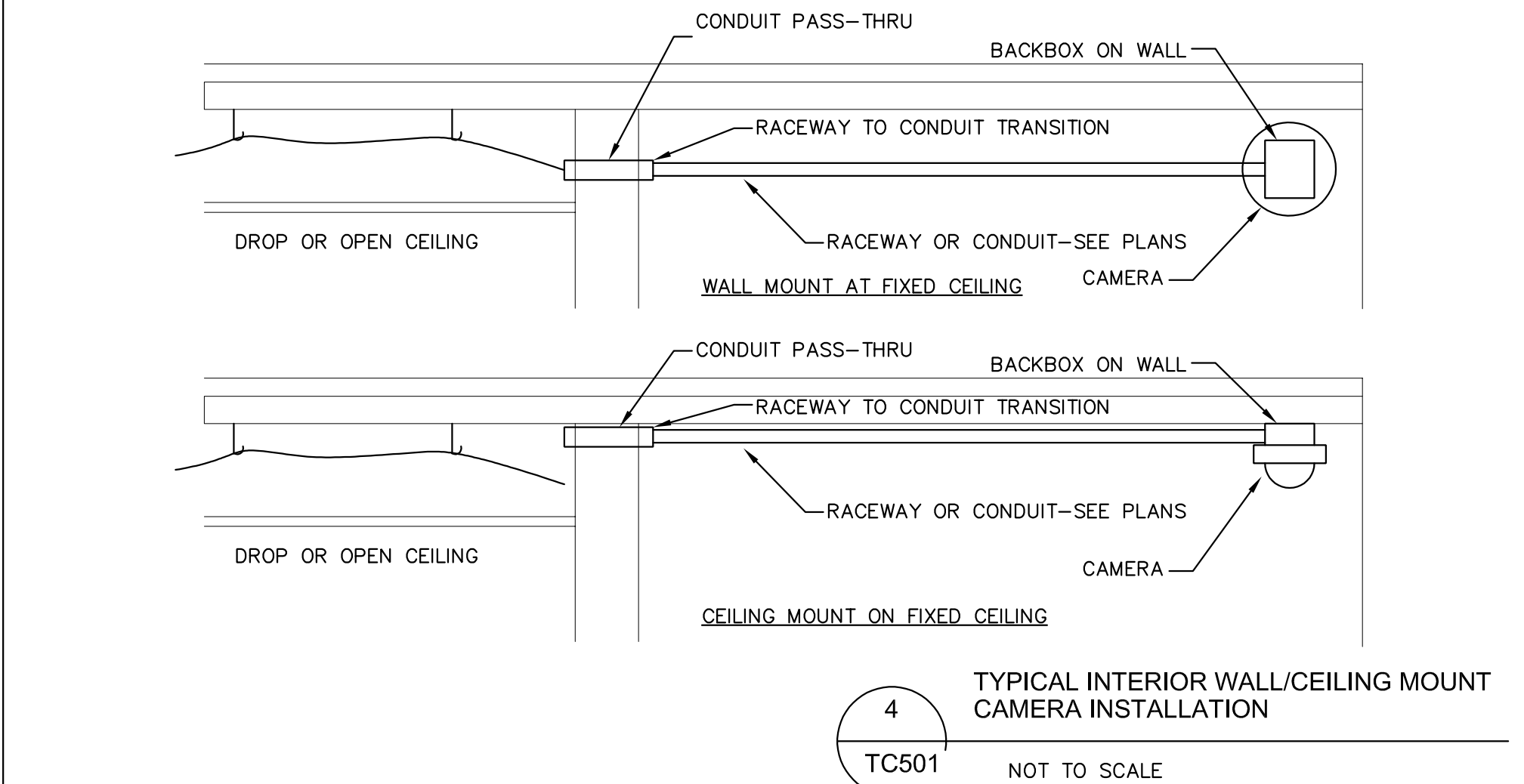
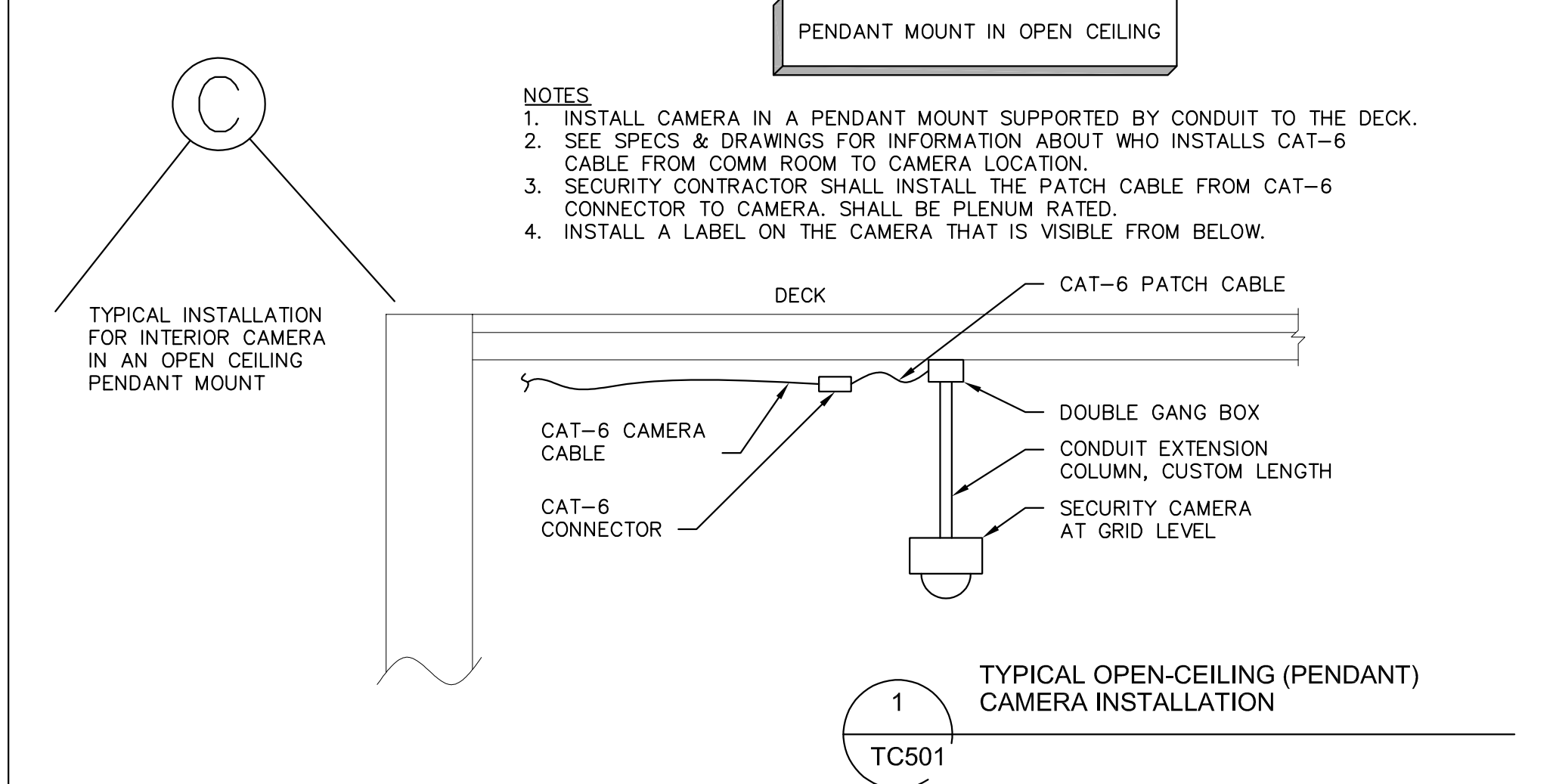
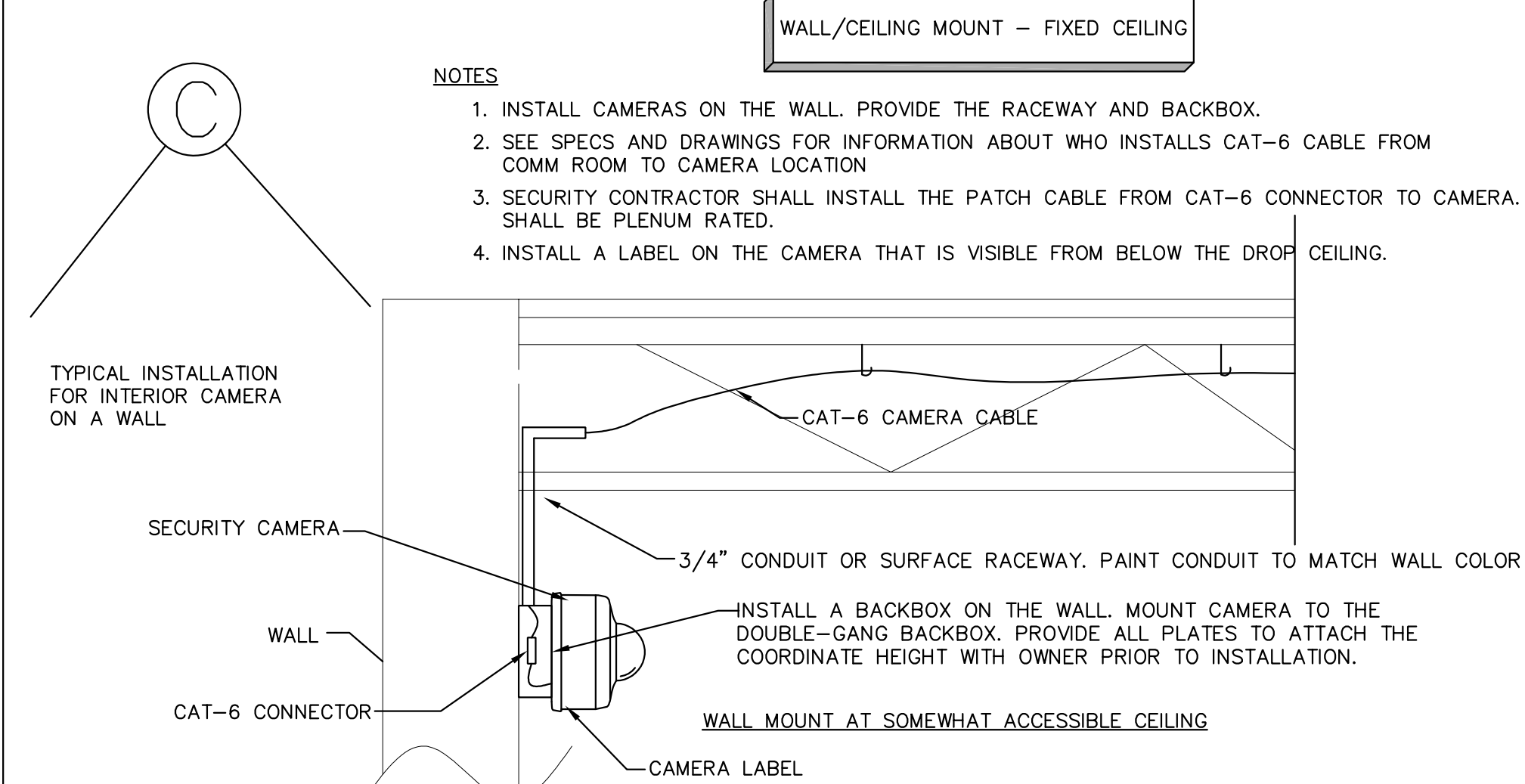
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Date	10/25/2019
Project	1253_01
Sheet	COVER

COMMUNICATION SYMBOL LEGEND			
SYMBOL	DESCRIPTION		
	SECURITY CAMERA, SEE SECURITY ONE-LINE DIAGRAM		

ABBREVIATIONS			
ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
2G	TWO-GANG BOX - PROVIDED BY EC	NIC	NOT IN CONTRACT
AC	ABOVE COUNTER - INSTALL BACKBOX SAME HEIGHT AS OTHER ELECTRICAL OUTLETS ABOVE THE COUNTER.	PBO	PROVIDED BY OTHERS
AFF	ABOVE FINISHED FLOOR	PCO-1	PATCH CORD ORGANIZER - 1 UNIT HIGH
AWG	ABOVE FINISHED GROUND	PCO-2	PATCH CORD ORGANIZER - 2 UNITS HIGH
AWG	AMERICAN WIRE GAUGE	PET	PROTECTED ENTRANCE TERMINAL
EMT	EMT TYPE CONDUIT	QTY	QUANTITY
EC	ELECTRICAL CONTRACTOR		

VIDEO SECURITY EQUIPMENT SCHEDULE			
MARK	DESCRIPTION	MANUFACTURER	PART NO.
SA	VIDEO SECURITY NVR AND RECORDING SERVERS	EXISTING	EXISTING
SB	INTERIOR OR EXTERIOR FISH EYE, 360-DEGREE CAMERA WITH NO BLIND SPOTS.	AVIGLON	12.0-H4F-DO1-IR
SC	INTERIOR IP CAMERA. 3-SENSOR CAMERA. PROVIDE WITH DROP CEILING, WALL OR PENDANT MOUNT BASED ON THE INSTALLATION TYPE REQUIRED.	AVIGLON	9W-H3-3MH-XXX
SD	INTERIOR IP CAMERA. 4-SENSOR CAMERA. PROVIDE WITH DROP CEILING, WALL OR PENDANT MOUNT BASED ON THE INSTALLATION TYPE REQUIRED.	AVIGLON	12W-H3-4MH-XXX
SE	EXTERIOR IP CAMERA. 3-SENSOR CAMERA. SHALL BE MOUNTED VIA AN EXTENSION ARM FOR PENDANT MOUNTING.	AVIGLON	9W-H3-3MH-DP1-B
SF	EXTERIOR IP CAMERA. 3-SENSOR CAMERA. SHALL BE MOUNTED VIA AN EXTENSION ARM FOR PENDANT MOUNTING.	AVIGLON	12W-H3-4MH-DP1-B
SG	INDOOR DOME CAMERA. WITH IR BLASTER. INCLUDE APPROPRIATE MOUNT.	AVIGLON	5.0L-H4A-D1-IR
SH	INDOOR DOME CAMERA. INCLUDE APPROPRIATE MOUNT.	AVIGLON	5.0L-H4A-DC2

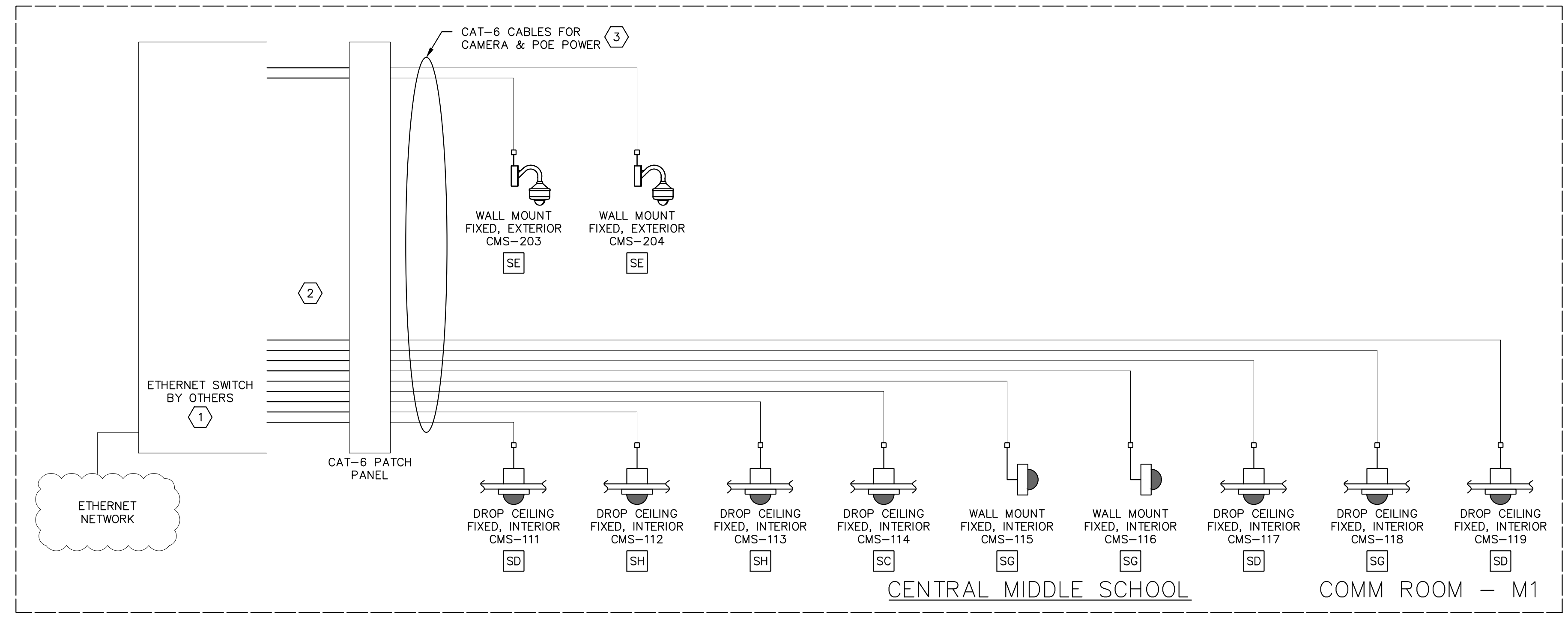
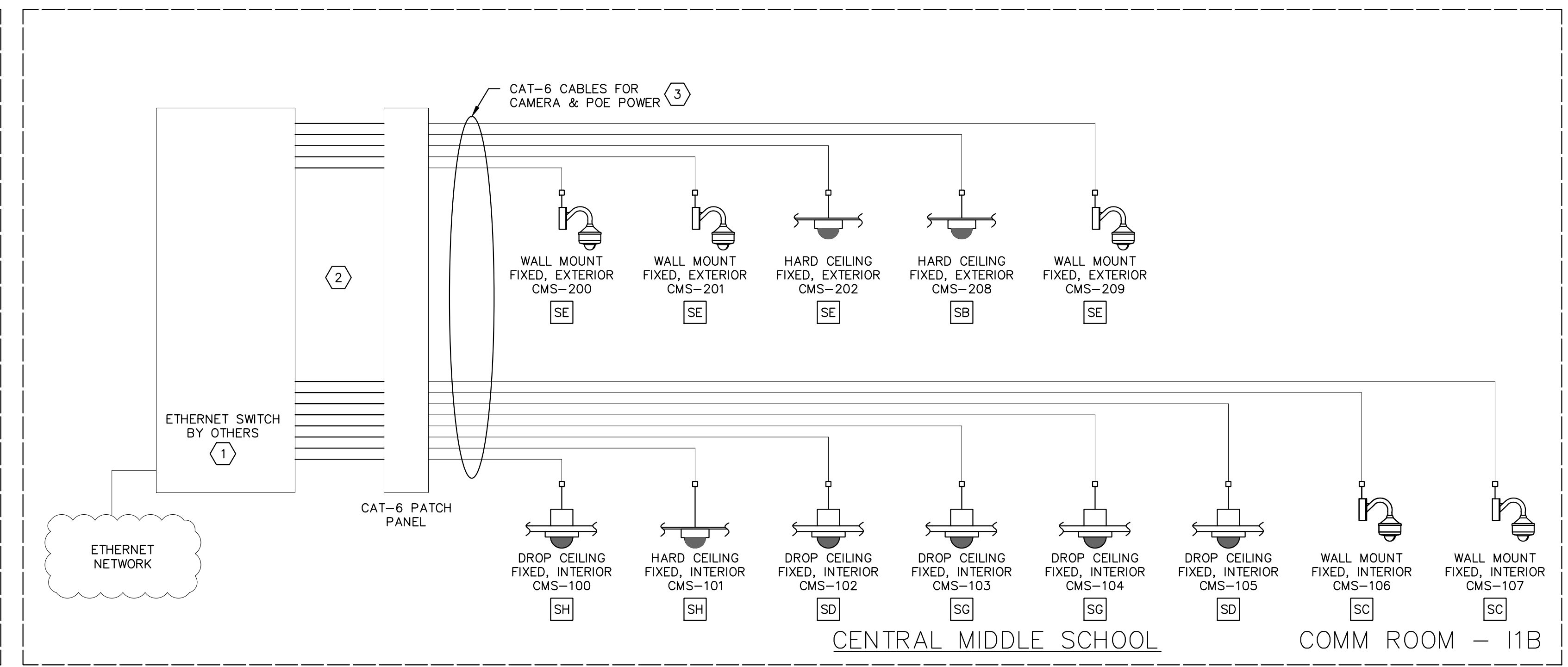
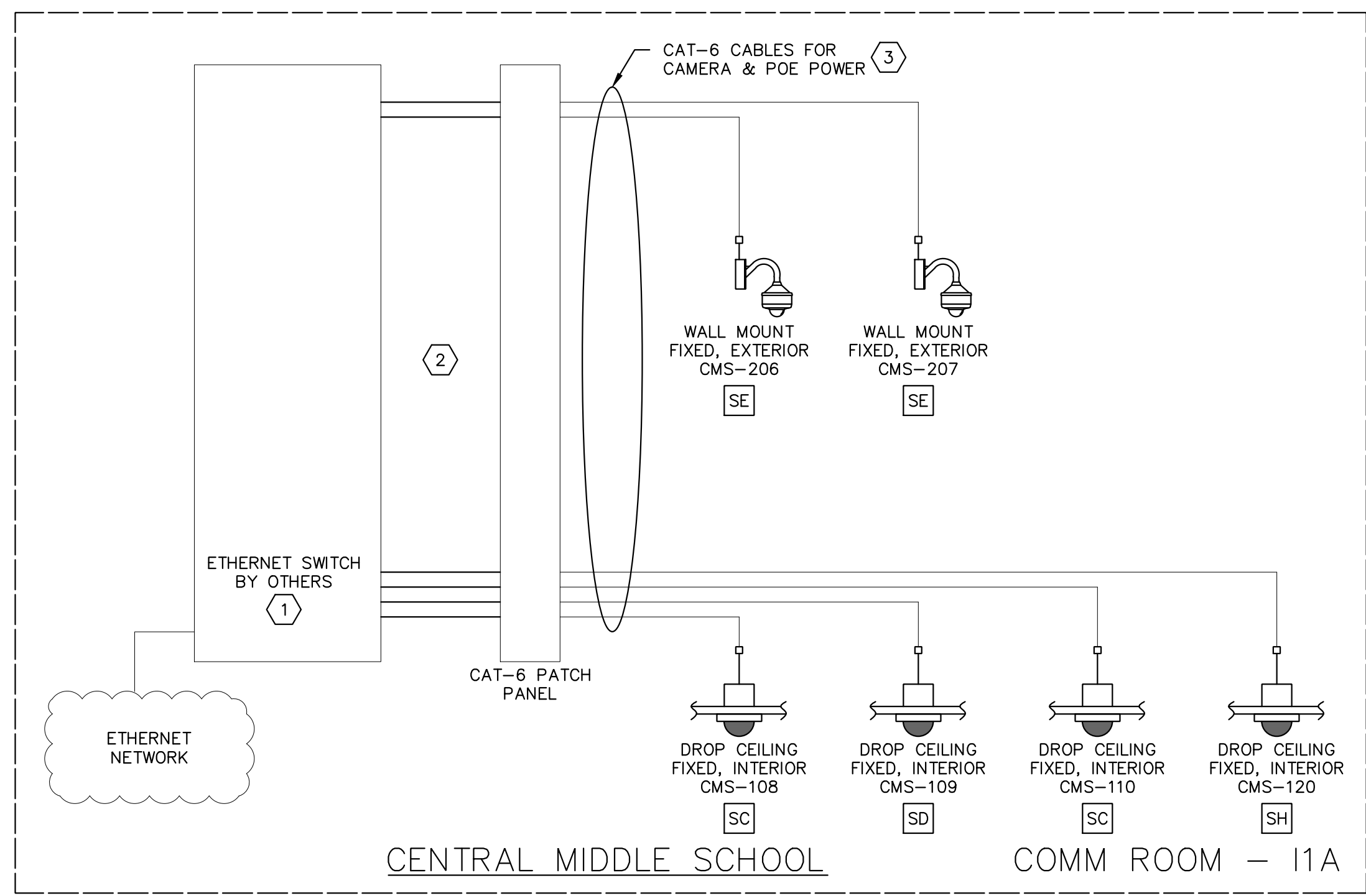


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Date	10/25/2019
Project	1253_01
Sheet	TC501 SECURITY LEGENDS, SCHEDULES & DETAILS



GENERAL SECURITY NOTES:

- CONTRACTOR SHALL PROVIDE ALL PATCH CABLES AT THE CAMERA AND AT THE COMM ROOM.
- THE CONTRACTOR SHALL SUPPLY ANY & ALL BALUNS, COUPLERS ADAPTERS & CONVERTERS THAT ARE REQUIRED FOR THE INTER-CONNECTION OF ALL THE SECURITY COMPONENTS.
- THE CAMERA CABLES SHALL TRANSPORT ALL VIDEO SIGNALS & CONTROL SIGNALS & POWER SIGNALS.
- CONTRACTOR SHALL PROVIDE THE CORRECT CAMERA MOUNT BASED ON CAMERA LOCATION AND STRUCTURE AVAILABLE. PROVIDE RECESSED CAMERA MOUNTS IN DROP CEILINGS.
- CONTRACTOR SHALL INSTALL AND CONFIGURE REMOTE VIEWING & CONTROL SOFTWARE ON THE FOLLOWING:
 -(NUMBER (X)) MONITOR COMPUTERS PROVIDED AS PART OF THIS BID.
 -(NUMBER (X)) OWNER PC'S
 -(NUMBER (X)) WIRELESS TABLES/SMARTPHONES.
- CONTRACTOR SHALL MEET WITH THE OWNER AND DETAIL ALL THE CAPABILITIES OF THE SYSTEM. THE CONFIGURATION OF THE RECORDER AND CAMERAS SHALL BE BASED ON THESE MEETINGS WITH THE OWNER.
- WHERE THE CAMERA IS NOT INSTALLED INTO A DROP CEILING THE CONTRACTOR SHALL PROVIDE A MOUNT AND HOUSING. PROVIDE WEATHERPROOF MOUNTS ON EXTERIOR CAMERAS.
- FOR EXTERIOR CAMERAS, THE CONTRACTOR SHALL PROVIDE A HEATER INSIDE EACH CAMERA MOUNT.
- CONTRACTOR SHALL PROVIDE THE CORRECT LENS TO EACH CAMERA BASED ON THE INSTALLED LOCATION AND THE OWNERS REQUIREMENTS FOR THE FIELD OF VIEW. WORK WITH THE OWNER DURING INSTALLATION.
- ALL CAMERAS SHALL CONNECT TO THE IP NETWORK SWITCH IN THE COMMUNICATIONS ROOM. CONTRACTOR SHALL WORK WITH THE OWNER ON CONFIGURATION OF THE ETHERNET SWITCH.
- NETWORK VIDEO RECORDER(S) (NVR) SHALL BE LOCATED IN THE XXXX BUILDING AND ARE TO BE PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE AND CONFIGURE ALL VMS AND SYSTEM SOFTWARE REQUIRED.

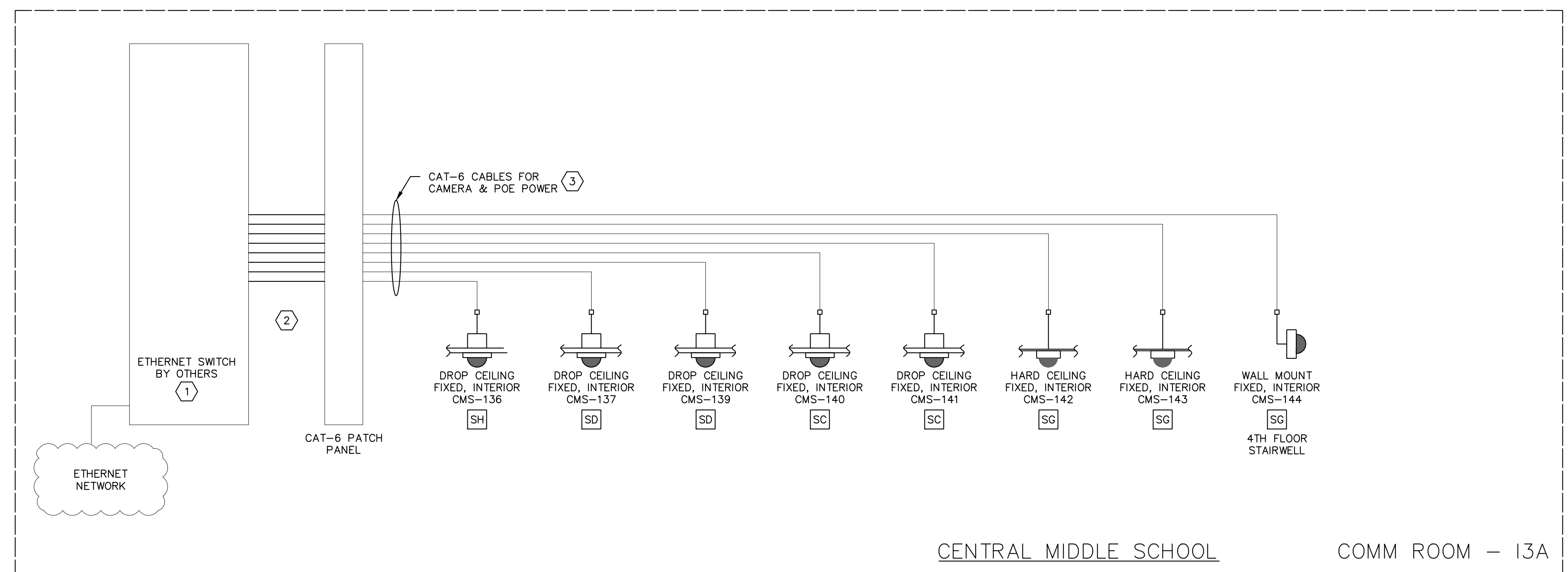
- THE DATA NETWORK AND ALL ETHERNET SWITCHES WILL BE PROVIDED BY XXXXX. THE SECURITY CONTRACTOR SHALL MEET WITH THE OWNER TO CONFIRM ALL NETWORK SPECIFICATION REQUIREMENTS FOR A VLAN OR OTHER QUALITY OF SERVICE SETTINGS FOR THE CAMERA SYSTEM.
- PROVIDE ALL PATCH CABLES REQUIRED FOR CONNECTION OF ALL CAMERAS AT THE CAMERA AND AT THE NETWORK SWITCH. ALL PATCH CABLES SHALL BE GREEN IN COLOR.
- CAT-6 CABLES FROM THE COMM ROOM TO THE CAMERA ARE INSTALLED BY THE CABLING CONTRACTOR. INSTALL PATCH CABLES FROM OUTLET TO CAMERA
- THE SERVER(S) WILL BE LOCATED IN THE XXXXXXXX BUILDING. CONTRACTOR SHALL LOAD ALL SOFTWARE REQUIRED TO RECORD AND MANAGE ALL CAMERAS THROUGHOUT THE BUILDINGS.
- PROVIDE A KVM (KEYBOARD/VIDEO/MOUSE) SWITCH/RACK MOUNT MONITOR FOR THE VIDEO SECURITY SYSTEM. CONNECT TO ALL SERVERS PROVIDED AS PART OF THIS PROJECT.

REFER TO THE PLANS FOR CAMERA LOCATIONS

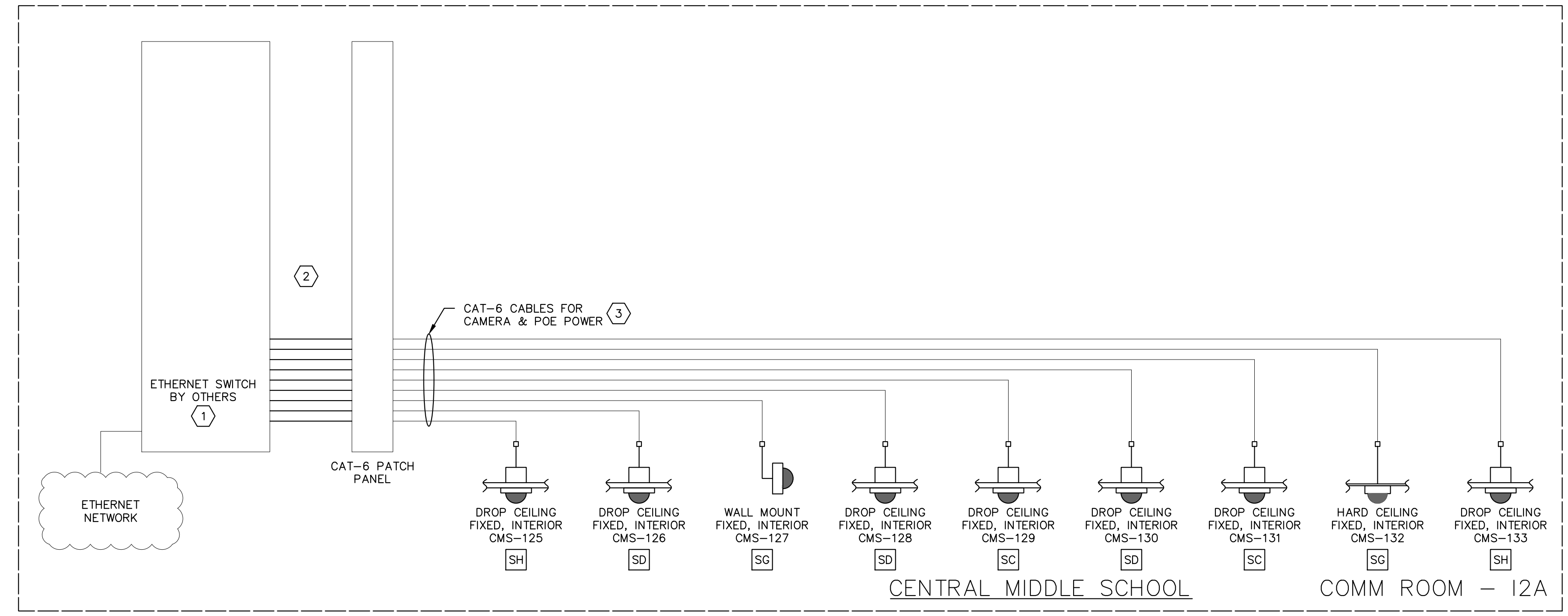
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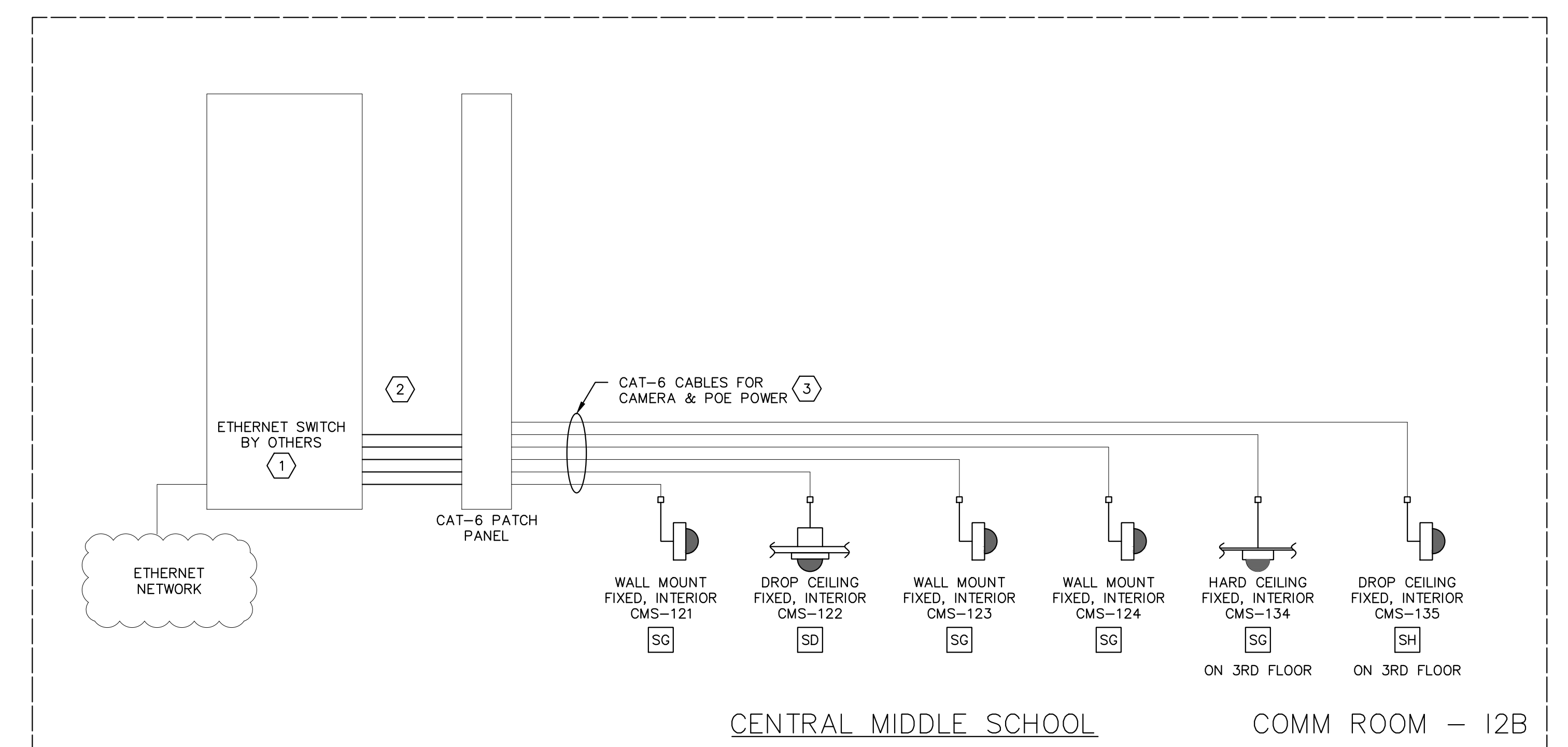
Date	10/25/2019
Project	1253_01
Sheet	TC502 SECURITY CAMERA ONE-LINE DIAGRAM



CENTRAL MIDDLE SCHOOL COMM ROOM - 13A



CENTRAL MIDDLE SCHOOL COMM ROOM - 12A



CENTRAL MIDDLE SCHOOL COMM ROOM - 12B

GENERAL SECURITY NOTES:

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3. THE CAMERA CABLES SHALL TRANSPORT ALL VIDEO SIGNALS & CONTROL SIGNALS & POWER SIGNALS.
4. CONTRACTOR SHALL PROVIDE THE CORRECT CAMERA MOUNT BASED ON CAMERA LOCATION AND STRUCTURE AVAILABLE. PROVIDE RECESSED CAMERA MOUNTS IN DROP CEILINGS.
5. CONTRACTOR SHALL INSTALL AND CONFIGURE REMOTE VIEWING & CONTROL SOFTWARE ON THE FOLLOWING:
 -(NUMBER (X)) MONITOR COMPUTERS PROVIDED AS PART OF THIS BID
 -(NUMBER (X)) OWNER PC'S
 -(NUMBER (X)) WIRELESS TABLETS/SMARTPHONES.
6. CONTRACTOR SHALL MEET WITH THE OWNER AND DETAIL ALL THE CAPABILITIES OF THE SYSTEM. THE CONFIGURATION OF THE RECORDER AND CAMERAS SHALL BE BASED ON THESE MEETINGS WITH THE OWNER.
7. WHERE THE CAMERA IS NOT INSTALLED INTO A DROP CEILING THE CONTRACTOR SHALL PROVIDE A MOUNT AND HOUSING. PROVIDE WEATHERPROOF MOUNTS ON EXTERIOR CAMERAS.
8. FOR EXTERIOR CAMERAS, THE CONTRACTOR SHALL PROVIDE A HEATER INSIDE EACH CAMERA MOUNT.
9. CONTRACTOR SHALL PROVIDE THE CORRECT LENS TO EACH CAMERA BASED ON THE INSTALLED LOCATION AND THE OWNERS REQUIREMENTS FOR THE FIELD OF VIEW. WORK WITH THE OWNER DURING INSTALLATION.
10. ALL CAMERAS SHALL CONNECT TO THE IP NETWORK SWITCH IN THE COMMUNICATIONS ROOM. CONTRACTOR SHALL WORK WITH THE OWNER ON CONFIGURATION OF THE ETHERNET SWITCH.
11. NETWORK VIDEO RECORDER(S) (NVR) SHALL BE LOCATED IN THE XXXX BUILDING AND ARE TO BE PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL PROVIDE AND CONFIGURE ALL VMS AND SYSTEM SOFTWARE REQUIRED.

- 1 THE DATA NETWORK AND ALL ETHERNET SWITCHES WILL BE PROVIDED BY XXXXX, THE SECURITY CONTRACTOR SHALL MEET WITH THE OWNER TO CONFIRM ALL NETWORK SPECIFICATION REQUIREMENTS FOR A VLAN OR OTHER QUALITY OF SERVICE SETTINGS FOR THE CAMERA SYSTEM.
- 2 PROVIDE ALL PATCH CABLES REQUIRED FOR CONNECTION OF ALL CAMERAS AT THE CAMERA AND AT THE NETWORK SWITCH. ALL PATCH CABLES SHALL BE GREEN IN COLOR.
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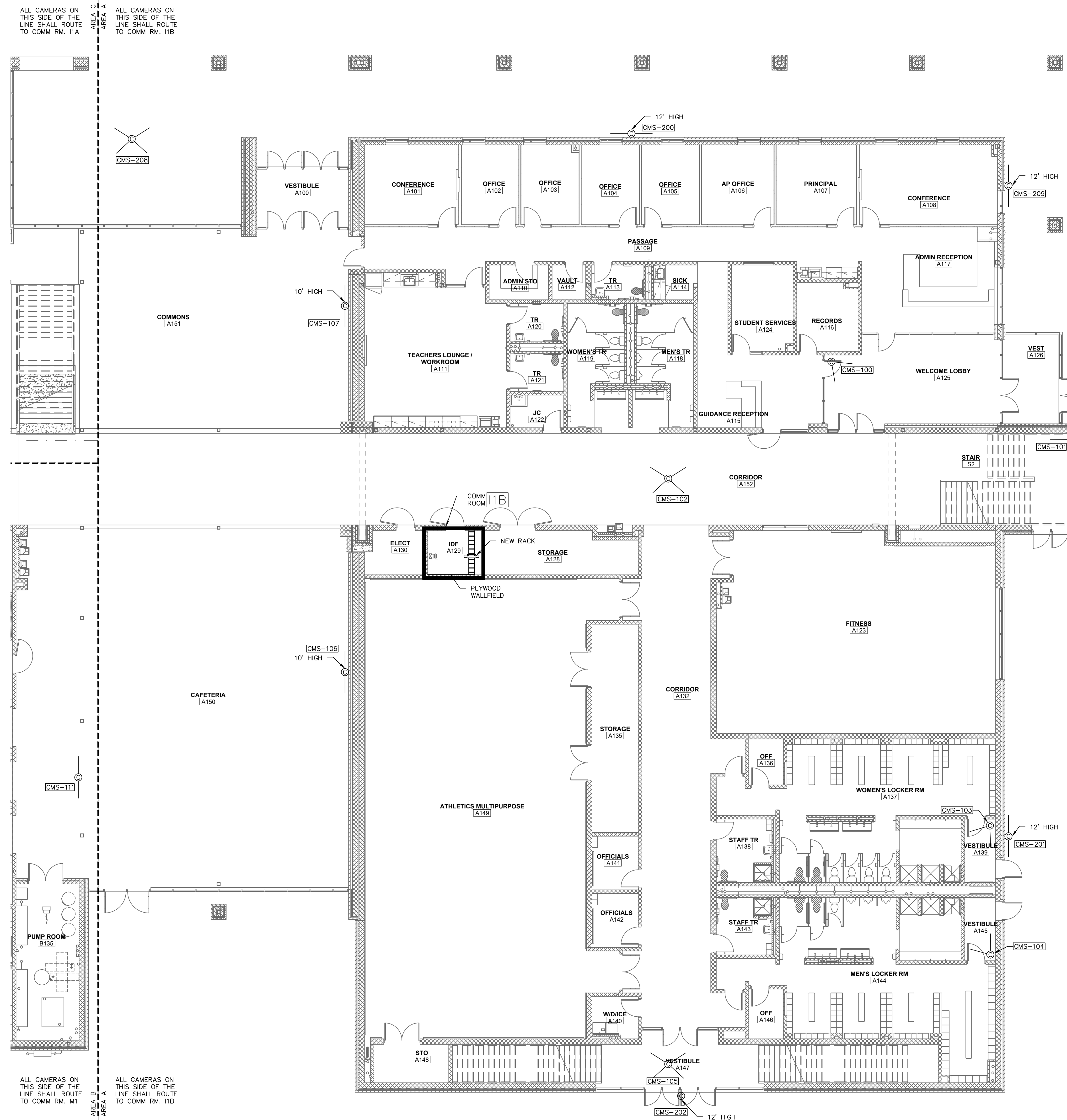
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TC503

VIDEO SECURITY DIAGRAM
CENTRAL MIDDLE SCHOOL

Mark	Revision	Description
	ISSUED FOR BID	10/25/19

GENERAL SECURITY NOTES

1. CABLES FOR SECURITY CAMERAS ARE EXISTING. FOR EXTERIOR CAMERAS THE CONTRACTOR SHALL CORE THRU THE WALL AND CREATE THE PATHWAY TO THE EXTERIOR CAMERA. SEAL AS PER SPECS.
2. CONTRACTOR SHALL COMPLETE A WALK-THRU PRIOR TO CONSTRUCTION & SHALL VERIFY ALL CABLES & PATHWAYS.
3. WALK THE BUILDING AFTER CABLE INSTALLATION AND INSTALL A STICKER DOT ON THE GRID AT LOCATION OF ALL CAMERA CABLES. REMOVE AFTER CAMERA INSTALLATION.
4. WALK THE BUILDING WITH THE OWNER AS YOU INSTALL THE STICKERS FOR EXACT LOCATION OF CAMERAS.
5. SERVERS FOR CAMERAS ARE EXISTING. PROVIDE AND INSTALL LICENSES FOR ALL NEW CAMERAS

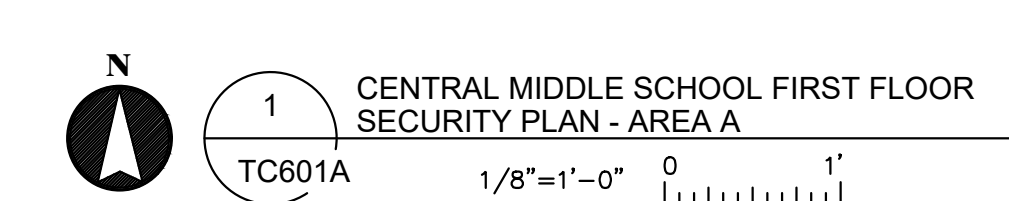
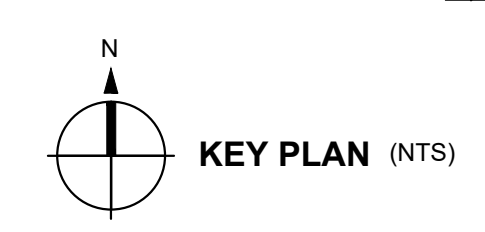
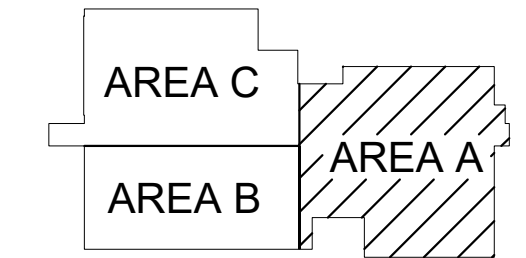


ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. 11A

ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. 11B

ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. M1

ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. 11B



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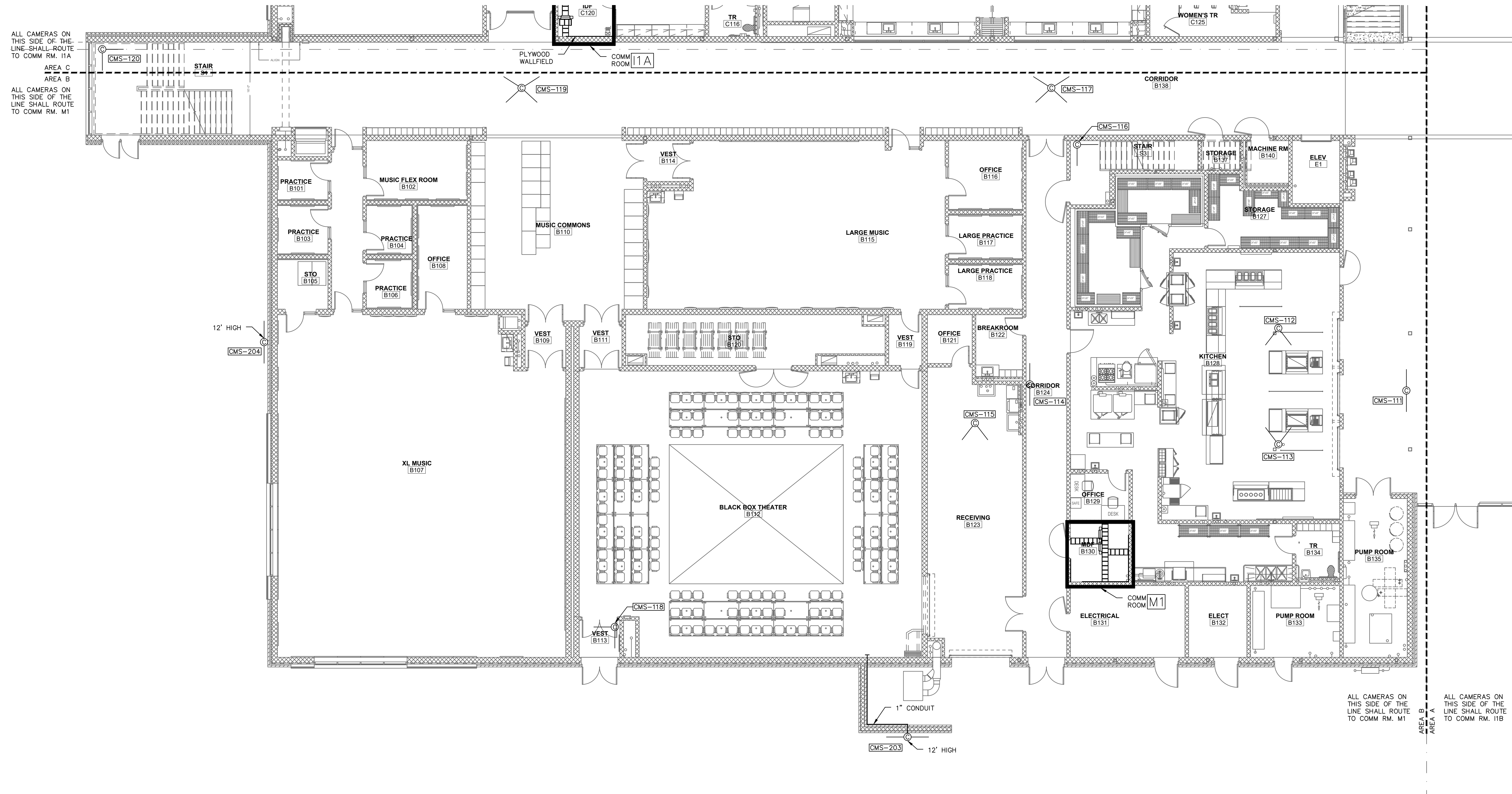
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Date	10/25/2019
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Sheet	TC601A SECURITY PLAN FIRST FLOOR AREA A

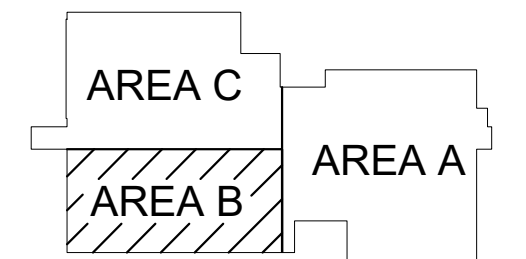
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4. WALK THE BUILDING WITH THE OWNER & YOU INSTALL THE STICKERS FOR EXACT LOCATION OF CAMERAS.
5. SERVERS FOR CAMERAS ARE EXISTING. PROVIDE AND INSTALL LICENSES FOR ALL NEW CAMERAS



ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. 11A
 AREA C
 AREA B
 ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. M1

ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. M1
 AREA B
 AREA A
 ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. 11B



KEY PLAN (NTS)

Mark	Revision	Description
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 CENTRAL MIDDLE SCHOOL
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Date	10/25/2019
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Sheet	TC601B SECURITY PLAN FIRST FLOOR AREA B

GENERAL SECURITY NOTES

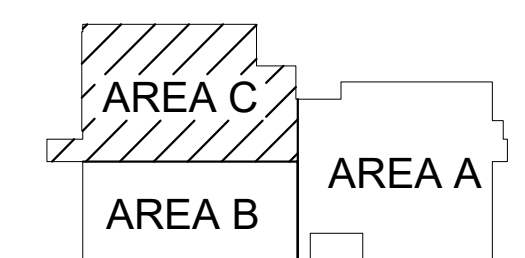
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VIDEO SECURITY
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Date	10/25/2019
Project	1253_01
Sheet	TC601C SECURITY PLAN FIRST FLOOR AREA C



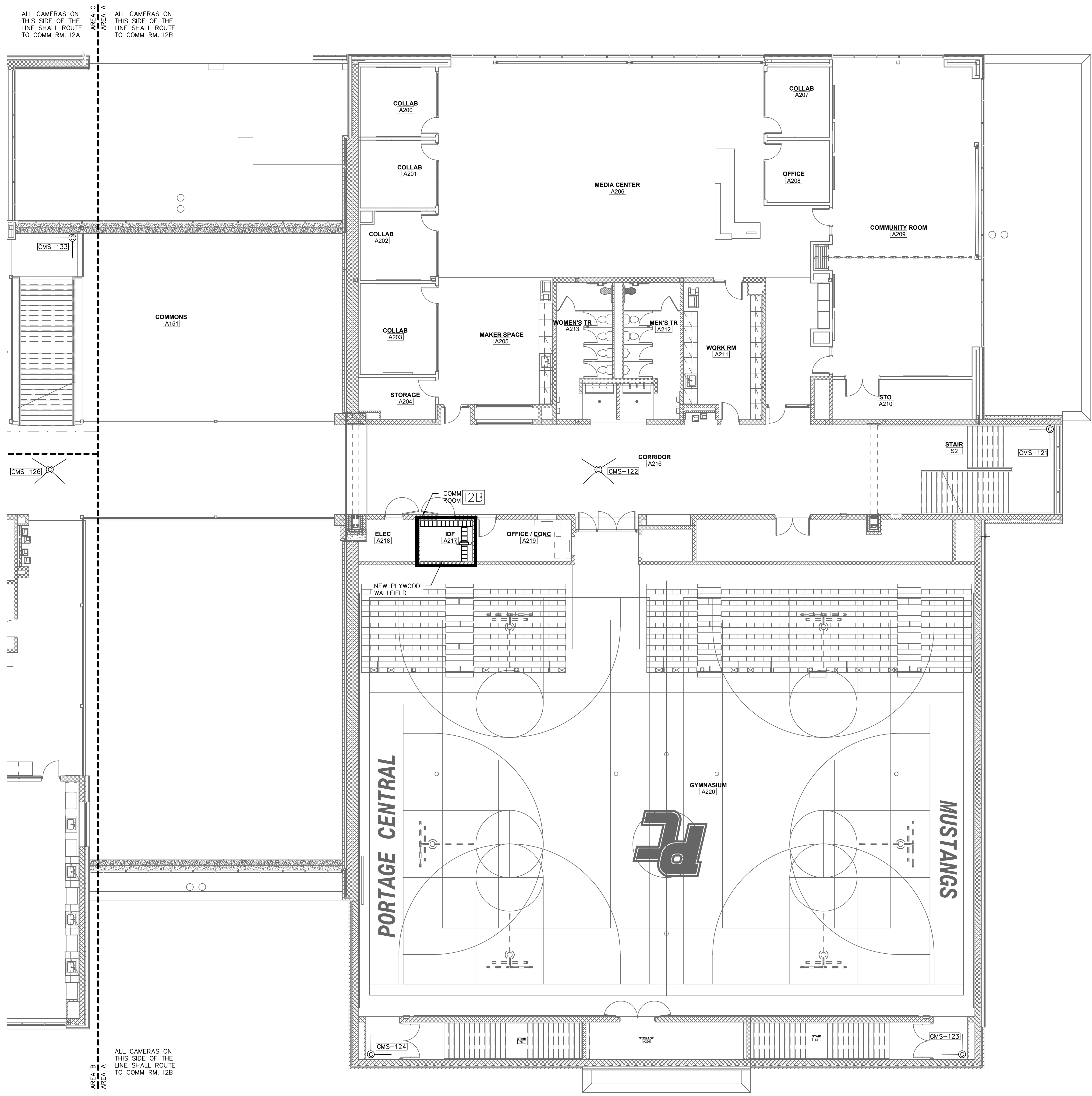
KEY PLAN (NTS)

1
 CENTRAL MIDDLE SCHOOL FIRST FLOOR
 SECURITY PLAN - AREA C
 TC601C 1/8"=1'-0" 0 1'

ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. 11A
 AREA C
 AREA B

ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. 11A
 AREA A

ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. 11B



ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. 12A

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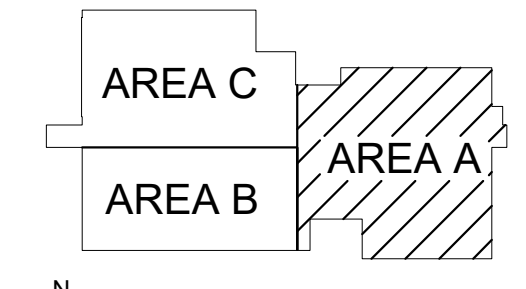
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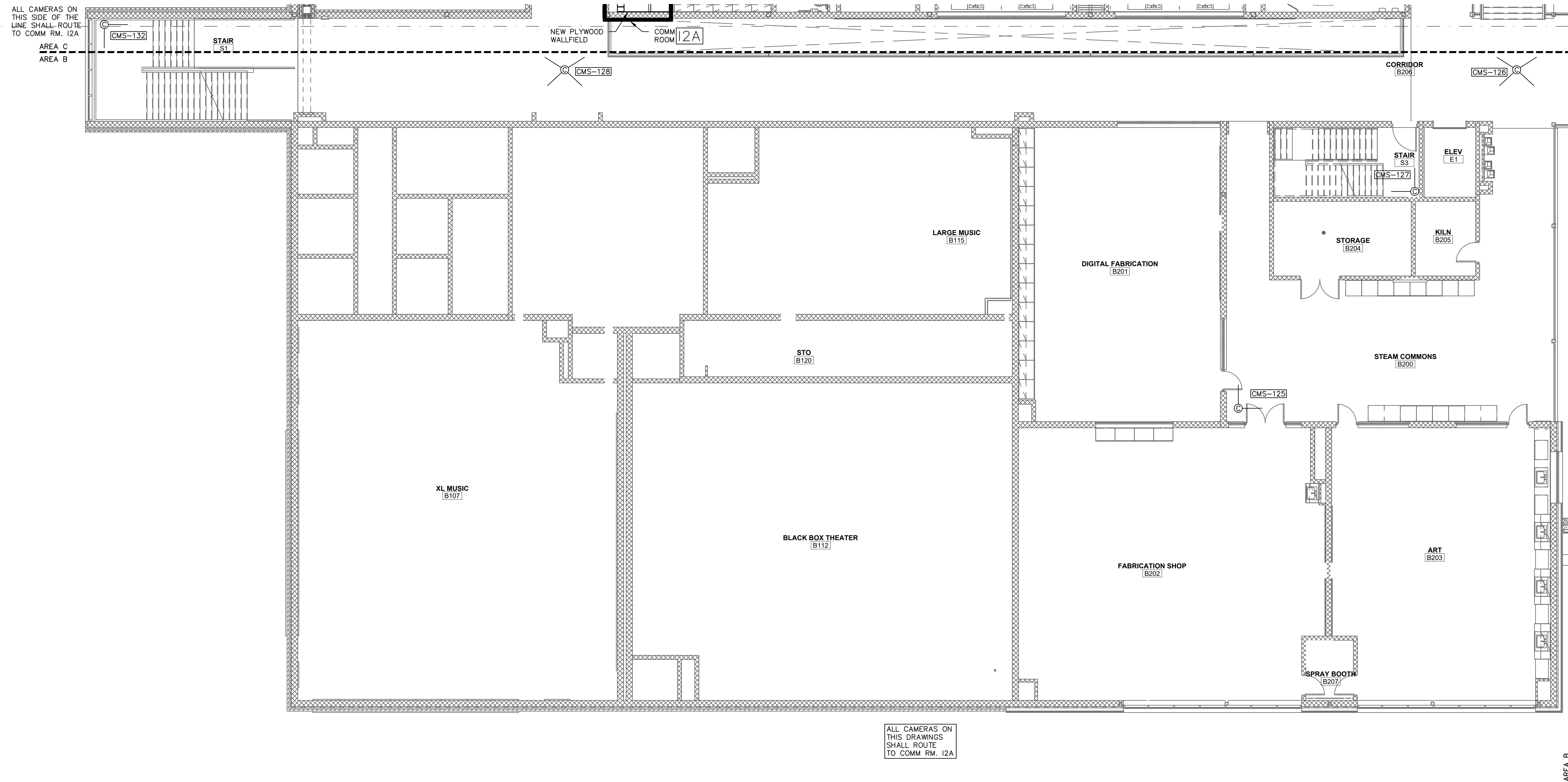


KEY PLAN (NTS)

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 SECURITY PLAN - AREA A
 TC602A 1/8"=1'-0" 0 1'

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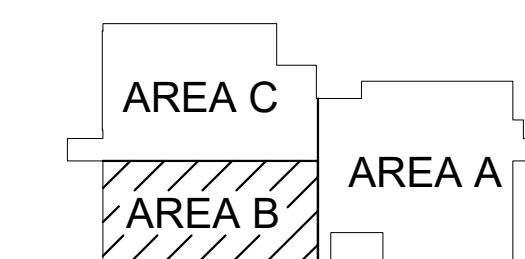


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	SECURITY PLAN SECOND FLOOR AREA B



KEY PLAN (NTS)

1
 CENTRAL MIDDLE SCHOOL SECOND FLOOR
 SECURITY PLAN - AREA B
 TC602B 1/8"=1'-0" 0 1'

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ALL CAMERAS ON THIS SIDE OF THE LINE SHALL ROUTE TO COMM RM. 12A
 AREA C
 AREA B

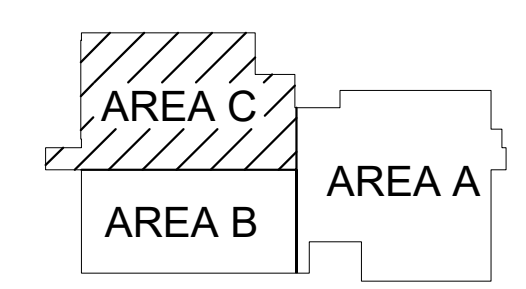
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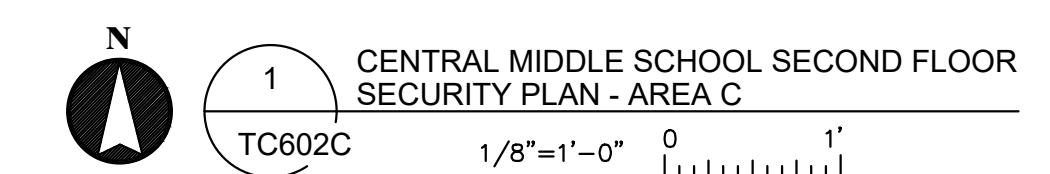
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VIDEO SECURITY
 PORTAGE, MICHIGAN

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Date	10/25/2019
Project	1253_01
Sheet	TC602C SECURITY PLAN SECOND FLOOR AREA C



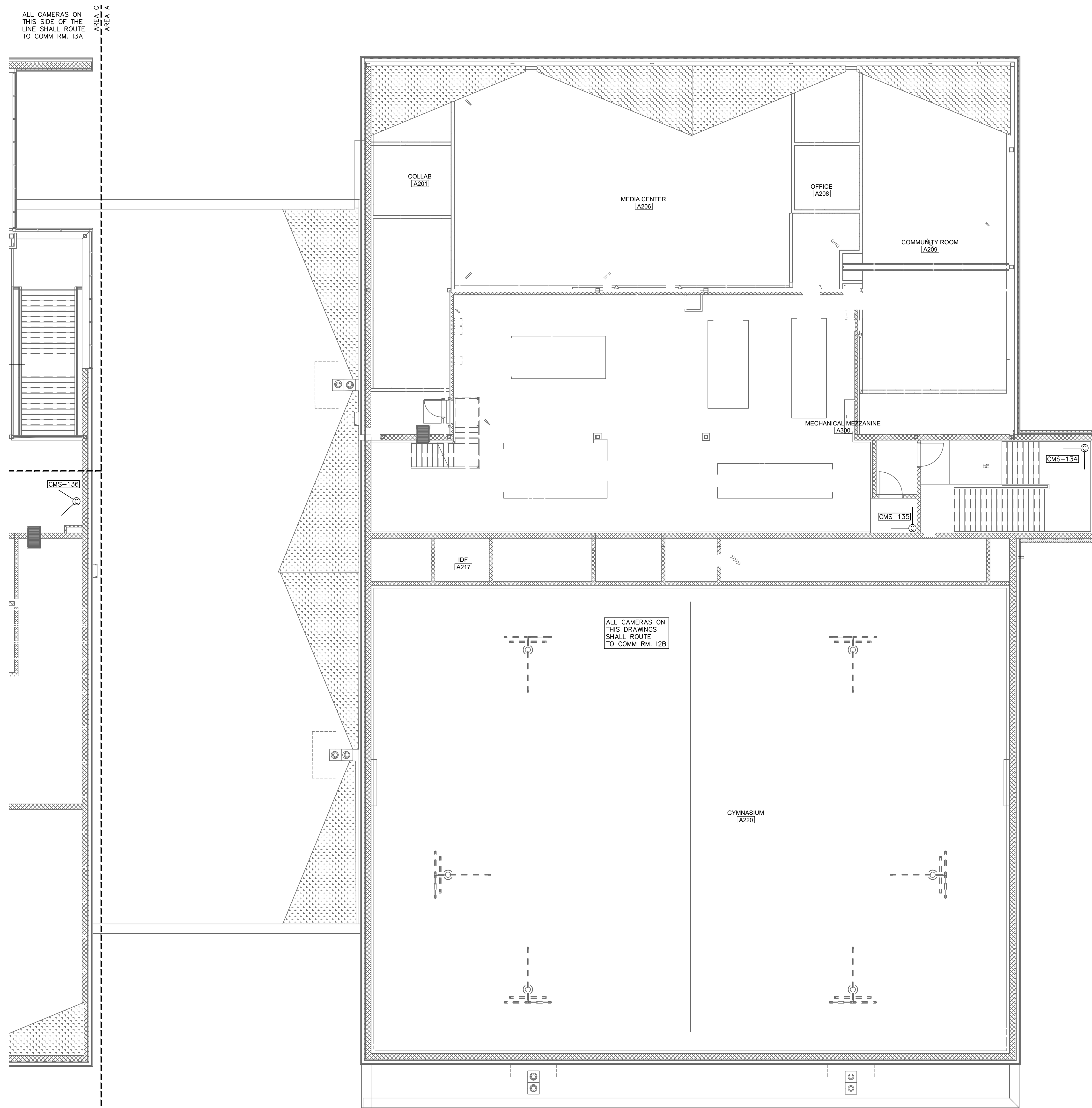
KEY PLAN (NTS)



1
 CENTRAL MIDDLE SCHOOL SECOND FLOOR
 SECURITY PLAN - AREA C
 TC602C 1/8"=1'-0"

GENERAL SECURITY NOTES

1. CABLES FOR SECURITY CAMERAS ARE EXISTING. FOR EXTERIOR CAMERAS THE CONTRACTOR SHALL CORE THRU THE WALL AND CREATE THE PATHWAY TO THE EXTERIOR CAMERA. SEAL AS PER SPECS.
2. CONTRACTOR SHALL COMPLETE A WALK-THRU PRIOR TO CONSTRUCTION & SHALL VERIFY ALL CABLES & PATHWAYS.
3. WALK THE BUILDING AFTER CABLE INSTALLATION AND INSTALL A STICKER DOT ON THE GRID AT LOCATION OF ALL CAMERA CABLES. REMOVE AFTER CAMERA INSTALLATION.
4. WALK THE BUILDING WITH THE OWNER AS YOU INSTALL THE STICKERS FOR EXACT LOCATION OF CAMERAS.
5. SERVERS FOR CAMERAS ARE EXISTING. PROVIDE AND INSTALL LICENSES FOR ALL NEW CAMERAS

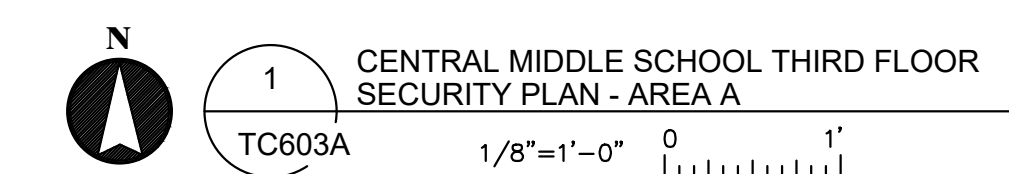
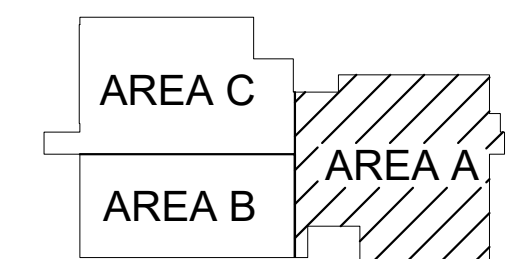


Mark	Revision	Description
	ISSUED FOR BID	10/25/19

PORTAGE PUBLIC SCHOOLS
CENTRAL MIDDLE SCHOOL
VIDEO SECURITY
 PORTAGE, MICHIGAN

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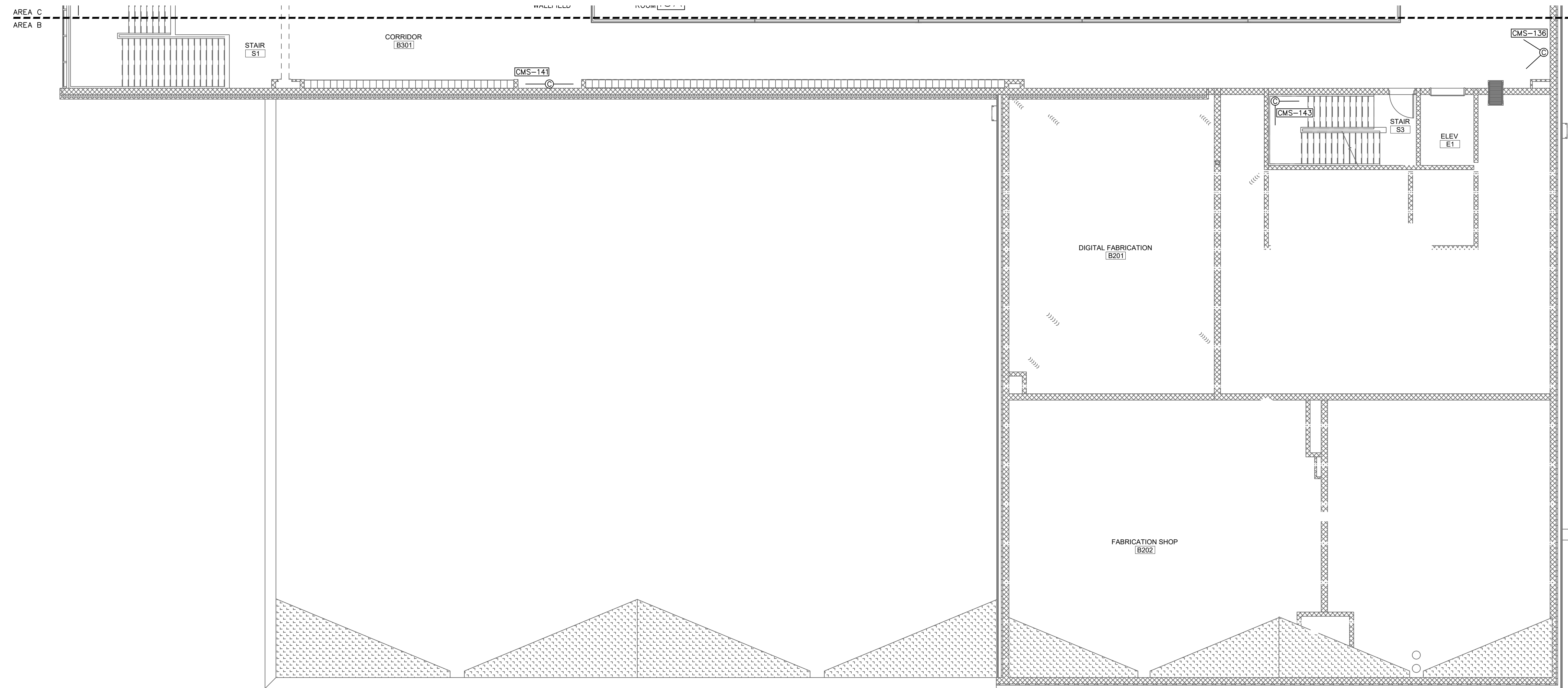
Date	10/25/2019
Project	1253_01
Sheet	TC603A SECURITY PLAN THIRD FLOOR AREA A



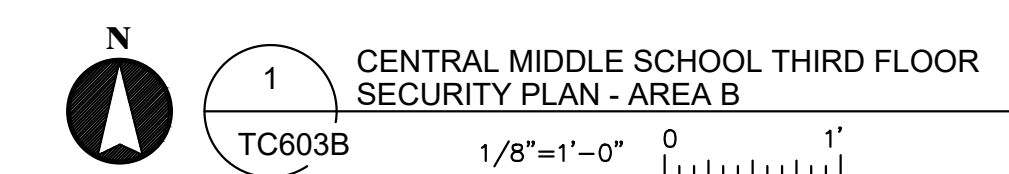
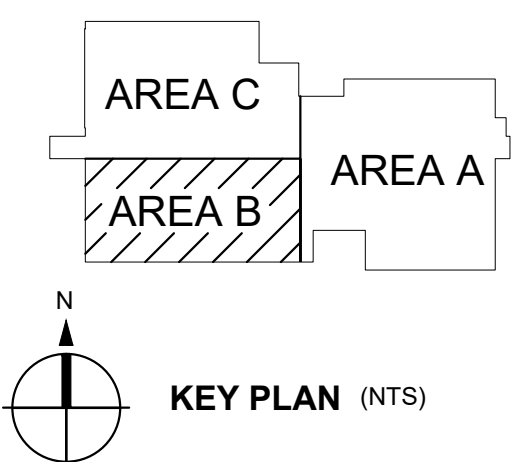
1
 TC603A
 CENTRAL MIDDLE SCHOOL THIRD FLOOR
 SECURITY PLAN - AREA A
 1/8"=1'-0"

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ALL CAMERAS ON THIS DRAWINGS SHALL ROUTE TO COMM RM. 13A



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CENTRAL MIDDLE SCHOOL
VIDEO SECURITY
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Date	10/25/2019
Project	1253_01
Sheet	TC603B SECURITY PLAN THIRD FLOOR AREA B

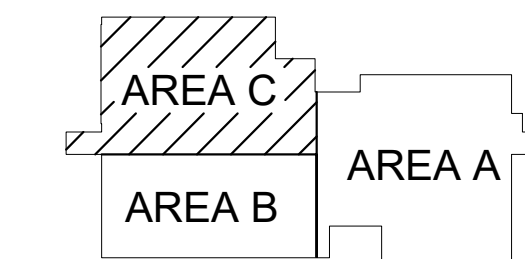
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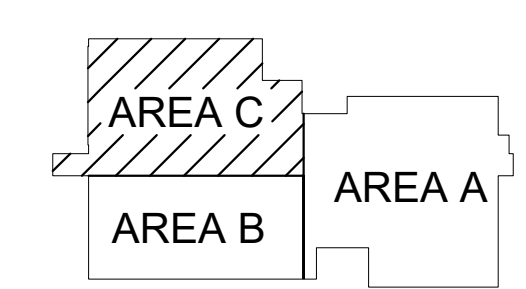
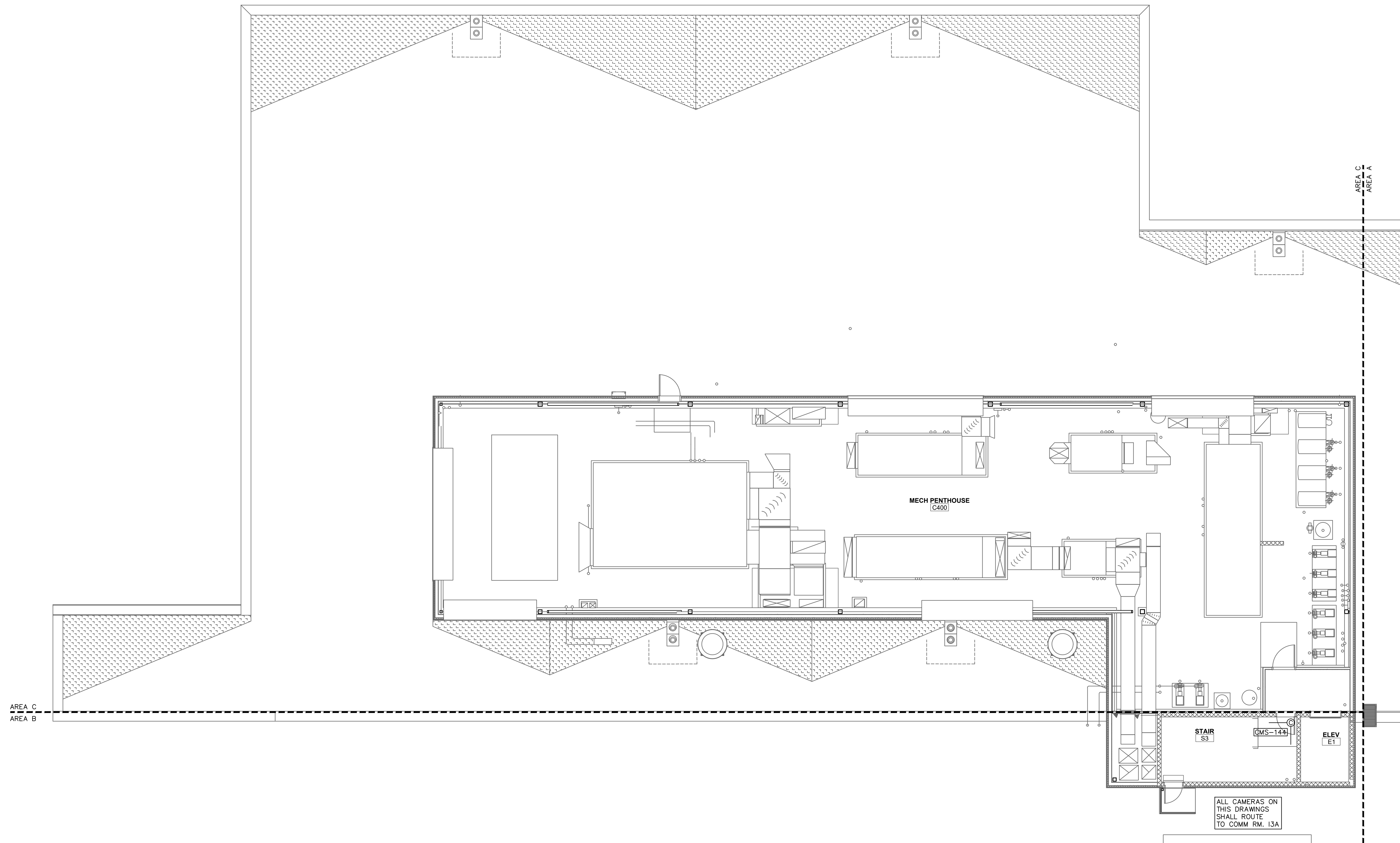
PORTAGE PUBLIC SCHOOLS
CENTRAL MIDDLE SCHOOL
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 PORTAGE, MICHIGAN




KEY PLAN (NTS)

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KEY PLAN (NTS)


1
 TC604C CENTRAL MIDDLE SCHOOL PENTHOUSE SECURITY PLAN - AREA C
 1/8"=1'-0" 0 1'


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