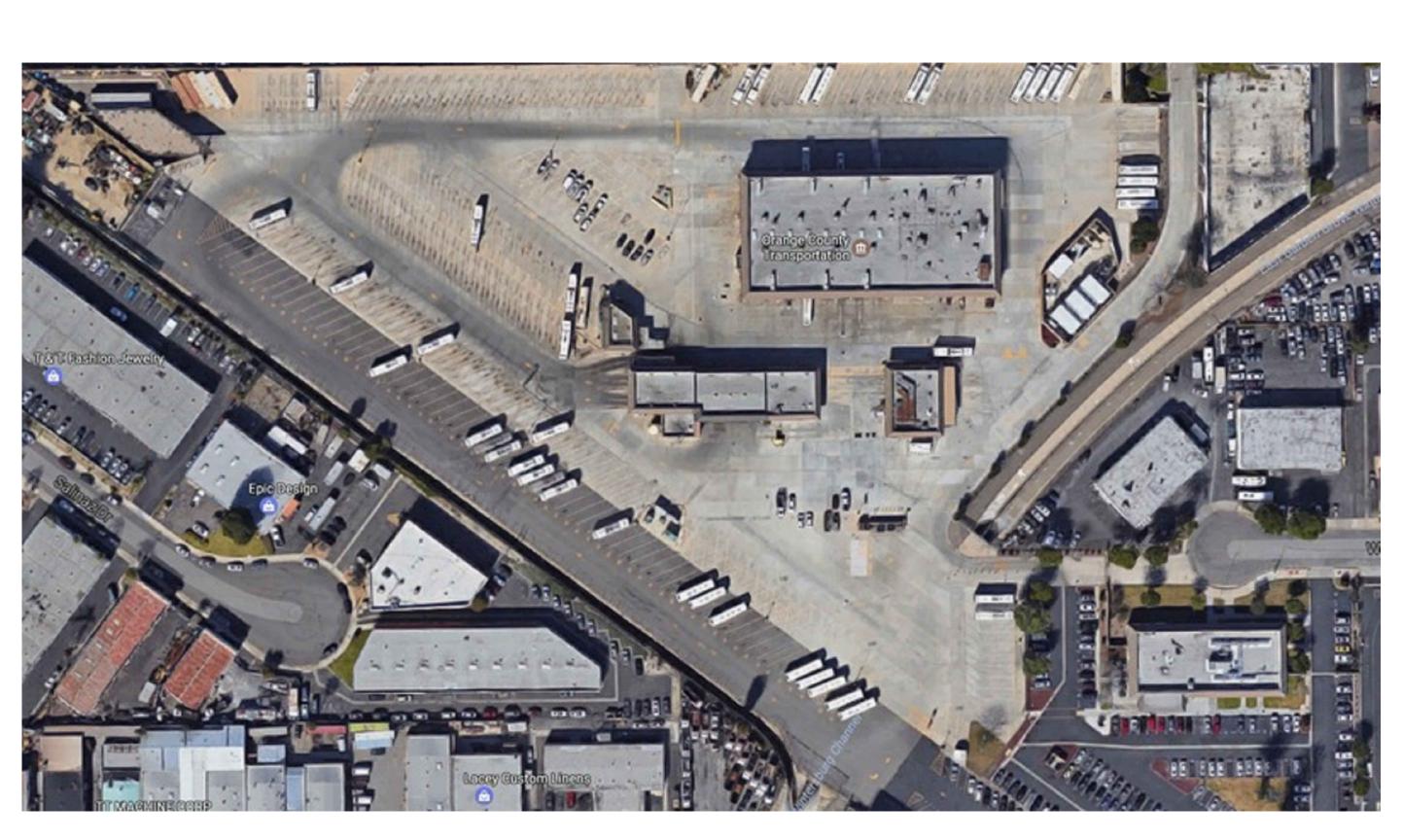
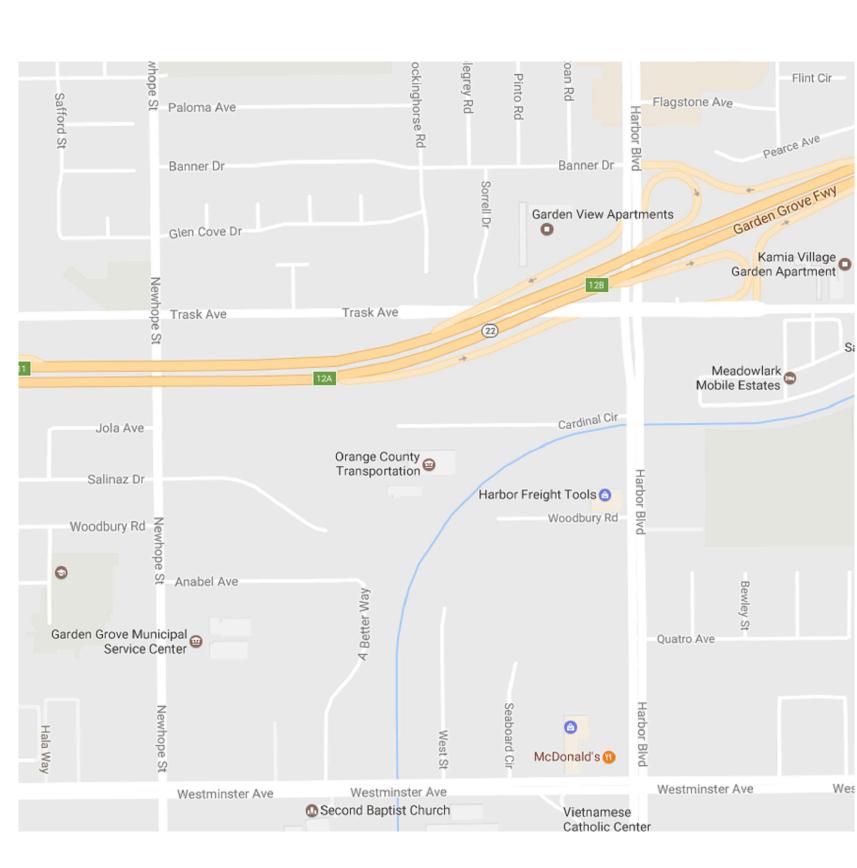
ORANGE COUNTY TRANSPORTATION AUTHORITY RFP 7-2138 INSTALLATION OF VIDEO SURVEILLANCE SYSTEM GARDEN GROVE BUS MAINTENANCE FACILITY 11790 CARDINAL CIRCLE, GARDEN GROVE, CA

LOCATION





GAF	range County ansportation Authori RDEN GROVE BUS
MAIN	TENANCE FACILITY
CONSULTANT	
KEY PLAN	
^	Issued Drawing Log
<u>/I</u> <u>11/14/16</u>	60% DESIGN DRAWINGS
<u>/#</u> <u>12/04/16</u>	60% DD AFTER JOBWALK
/# <u>12/30/16</u> /# 01/27/17	85% CD DRAWINGS
<u>/#</u> <u>01/27/17</u>	100% CD DRAWINGS
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DRAWING TITLE	
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DRAWING TITLE G / DRAWIN BY RED5	ARDEN GROVE COVERPAGE project no.
C / DRAWN BY RED5 CHECKED	PROJECT NO. SCALE
C / DRAWIN BY RED5	PROJECT NO.

VICINITY MAP

SHEET INDEX

SHEET	DESCRIPTION
SC-000	COVERPAGE
SC.001	GENERAL NOTES, SYMBOLS, SCHEDULES & ABBREVIATIONS
SC.002	SITE PLAN NORTH BUILDING - EXTERIOR
SC.003	SITE PLAN SOUTH BUILDING - EXTERIOR
SC.101	MAINTENANCE BUILDING FIRST FLOOR PLAN - INTERIOR
SC.102	MAINTENANCE BUILDING SECOND FLOOR PLAN - INTERIOR
SC.103	OPERATIONS BUILDING - INTERIOR
SC-201	WEST SITE DEMO PLAN
SC-202	EAST SITE DEMO PLAN
SC-203	MAINTENANCE BUILDING FIRST FLOOR DEMO PLAN
SC-204	MAINTENANCE BUILDING SECOND FLOOR DEMO PLAN
SC-205	OPERATIONS BUILDING DEMO PLAN
SC-206	FUELING AND BRAKE CHECK DEMO PLAN
SC.207	ANNEX 1ST & 2ND FLOOR
SC.501	DETAIL PLAN DOME CAMERA MOUNTING METHODS
SC.502	DETAIL PLAN LICENSE PLATE CAMERA MOUNTING METHODS
SC.503	DETAIL PLAN PTZ CAMERA MOUNTING METHODS
SC.504	DETAIL PLAN HOUSING AND BULLET CAMERA MOUNTING METHODS
SC.505	DT-05 DETAIL PLAN EQUIPMENT RACK
SC.506	DETAIL PLAN EQUIPMENT ENCLOSURE
SC.507	PLAN REMOTE BUILDING EQUIPMENT ENCLOSURE
SC.601	LINE DIAGRAM

GENERAL NOTES

CONDUIT AND INFRASTRUCTURE NOTES

- 1. ALL DETAIL DRAWINGS AND DESIGN ELEMENTS ON THESE SHEETS ARE A BASIS OF DESIGN ONLY AND ARE A GENERAL REPRESENTATION OF THE QUALITY AND TYPE OF EQUIPMENT, INSTALLATION, AND WORKMANSHIP OF THE FINAL PRODUCT **REQUIRED FOR THIS PROJECT. INSTALLATION CONTRACTOR IS** ULTIMATELY RESPONSIBLE TO PROVIDE EQUIPMENT THAT IS MATCHING AND FUNCTIONAL IN DESIGN, AND A FINAL PRODUCT THAT MEETS THE OVERALL SPECIFICATION AND DESIGN INTENT 2. ALL CONDUIT EXPOSED TO THE ELEMENTS TO BE RIGID
- GALVANIZED STEEL WATERTIGHT WITH WATERTIGHT CONNECTIONS.
- ALL CONDUIT INSTALLED INDOORS TO BE GALVANIZED STEEL EMT. FINAL CONNECTION TO CAMERA HOUSING MAY BE WATERTIGHT FLEXIBLE CONDUIT WHERE APPROPRIATE.
- 5. RE-USE OF EXISTING CONDUIT WHERE POSSIBLE IS ENCOURAGED. 6. ALL CONDUIT, ENCLOSURES, AND DEVICES TO BE SECURED TO SOLID STRUCTURE FOLLOWING ALL CITY AND STATE CODES AND MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS.
- 7. MINIMUM CONDUIT SIZE IS TO BE NO SMALLER THAN 3/4"
- 8. ALL PENETRATIONS THROUGH EXTERIOR WALLS TO BE SEALED WATERTIGHT.
- 9. USE OF FIRESTOP SEALANT TO BE USED ON ALL PENETRATIONS MADE INDOORS THROUGH ANY FIRE RATED WALL
- 10. EXISTING OM1 FIBER WILL BE REPLACED WITH OM-3 AND A FIBER STRAND TESTING MACHINE GENERATED COMPLIANCE CERTIFICATE, PASSING ALL TEST PARAMETERS BASED ON IEC 61280-4-1 TESTING STANDARDS WILL BE PERFORMED.
- 11. ALL WIRING SHALL BE ENCLOSED IN CONDUIT WHERE NOT ENCLOSED IN A CEILING OR WALL. WHERE WIRING RUNS THROUGH A DROP CEILING IT WILL BE SUPPORTED AT LEAST 4" ABOVE ANY LIGHT FIXTURE AND 6" FROM ANY HIGH VOLTAGE LINE USING "J" HOOK TYPE SUPPORTS ANCHORED TO THE EXISTING STRUCTURE. USE OF DROP CEILING SUPPORT STRUCTURE IS PROHIBITED.
- 12. WHERE OLD WIRING IS NO LONGER IN USE IT MUST BE REMOVED TO ALLOW FOR THE PROPER FILL RATIO INSIDE THE CONDUIT.
- 13. ALL NEW CONDUIT MUST BE INSTALLED IN A PROFESSIONAL AND WORKMAN LIKE MANNER TAKING INTO ACCOUNT LEVEL AND
- PLUMB AS WELL AS FACILITY AESTHETICS. 14. EXISTING CAT6 WIRING TO CAMERAS MAY BE RETAINED IF CONTRACTOR PROVIDES A COPPER WIRE TESTING MACHINE GENERATED COMPLIANCE CERTIFICATE. PASSING ALL TEST PARAMETERS BASED ON TIA-568-B & ISO 11801:2002 TESTING STANDARDS.

CAMERA AND ETHERNET SWITCH NOTES

- ALL CAMERAS TO BE NETWORK IP TYPE POWERED BY POE+. 2. ALL POE NETWORK SWITCHES TO BE COMPLIANT WITH 802.3 AF AND 802.3 AT STANDARDS.
- 3. WHEN RE-USING AN EXISTING CAMERA HOUSING, REFURBISH ANY BAD HOUSING SEALS, AND CLEAN GLASS INSIDE AND OUT.
- 4. ALL 180 DEGREE MULTI-SENSOR CAMERAS WILL BE PROPERLY ALIGNED AND ADJUSTED FOR SEAMLESS PANORAMIC VIEW ACROSS ENTIRE PICTURE.
- 5. ALL CAMERAS WILL BE MOUNTED WITH MANUFACTURERS **RECOMMENDED MOUNTING HARDWARE.**
- 6. CAMERA MOUNTING METHOD WILL BE DETERMINED BASED ON CAMERA TYPE AND FINAL MOUNTING LOCATION, EACH MOUNTING TYPE WILL BE CONFIRMED PRIOR TO INSTALLATION.

	CAMERA LISTING		SYMBOLS LEGEND		
ITEM# TYPE	LOCATION DESCRIPTION	SYMBOL	DESCRIPTION	ABBR.	ABBRE
GG-01 TYPE III	MAINTENANCE BUILDING NORTH PTZ	STIVIDOL	DESCRIPTION	AFF.	ABOVE
GG-02 TYPE VI	TIRE SHOP LONG RANGE CLOSE UP CAMERA			ACP.	ACCES
GG-03 TYPE I	MAINTENANCE BUILDING NORTH PARKING OVERVIEW		EXISTING UNDERGROUND CONDUIT	AWG.	AMERI
GG-04 TYPE I	MAINTENANCE BUILDING NORTHWEST PARKING OVERVIEW		CATEGORY 6 (CAT6) CONNECTION	CCTV.	CLOSE
GG-05 TYPE I	MAINTENANCE BUILDING SOUTHWEST PARKING OVERVIEW		CATEGORT & (CATO) CONNECTION	DC.	DIREC
GG-06 TYPE III	MAINTENANCE BUILDING SOUTH PTZ		OM3 50 MICRON LASER ENHANCE FIBER OPTIC	DIA.	DIAME
GG-07 TYPE I	MAINTENANCE BUILDING SOUTH PARKING OVERVIEW		CABLING	DIM.	DIMEN
GG-08 TYPE I	MAINTENANCE BUILDING SOUTHEAST PARKING OVERVIEW			DIV.	DIVISIO
GG-09 TYPE I	MAINTENANCE BUILDING NORTHEAST PARKING OVERVIEW	$\langle \! $	1 GIGABIT COPPER TO FIBER MEDIA CONVERTOR	DGP. DPDT.	DATA O DOUBL
GG-10 TYPE I	BUS WASH PARKING NORTH OVERVIEW	\bigtriangledown	WITH SFP MODULE	DPDT. DPST.	DOUBL
GG-11 TYPE I	BUS WASH PARKING WEST OVERVIEW			ELEC.	ELECT
GG-12 TYPE I	BRAKE CHECK BUS PARKING WEST OVERVIEW	1 Ch		FF.	FINISH
GG-13 TYPE IV	FUELING AREA CASH DROP CAMERA	1 Gb	1 GIGABIT POE+ ETHERNET SWITCH	FFE.	FINISH
GG-14 TYPE IV	FUELING AREA CASH DROP CAMERA		10 GIGABIT POE+ ETHERNET SWIITCH	FFL.	FINISH
GG-15 TYPE IV	FUELING AREA CASH DROP CAMERA	10 Gb		FL	FLOOR
GG-16 TYPE IV	FUELING AREA CASH DROP CAMERA	\frown		FT	FOOT,
GG-17 TYPE IV	FUELING AREA CASH DROP CAMERA		TYPE 1 - 180 DEGREE MEGAPIXEL SENSOR IP DOME	GC	GENER
GG-18 TYPE IV	FUELING AREA CASH DROP CAMERA		CAMERA	GFCI	GROU
GG-19 TYPE V	BUS DRIVEWAY LICENSE PLATE CAMERA			HT HH	HEIGH ⁻ HANDF
GG-20 TYPE I	CENTER PARKING LOT POLE WATCHING OPERATIONS BLDG.			ID	INSIDE
GG-21 TYPE II	OPERATIONS EAST PUBLIC ENTRY CLOSE UP			IDS	INTRUS
GG-22 TYPE I	OPERATIONS EAST STREET AND FRONTAGE OVERVIEW	(MP)	TYPE II - VARIFOCAL MEGAPIXEL MULTI IMAGER IP DOME CAMERA	JBOX	JUNCT
GG-23 TYPE II	OPERATIONS SOUTH ENTRY CLOSE UP		DOME CAMERA	LCD	LIQUID
GG-24 TYPE I	OPERATIONS SOUTH PARKING OVERVIEW			LV	LOW V
GG-25 TYPE V	MAIN ENTRY DRIVEWAY LICENSE PLATE CAMERA			MH	MANHO
GG-26 TYPE I	OPERATIONS WEST PARKING OVERVIEW		TYPE III - PAN-TILT-ZOOM, MEGAPIXEL SINGLE	MM	MILLIM
GG-27 TYPE II	OPERATIONS WEST ENTRY CLOSE UP		SENSOR IP DOME CAMERA	NC NEC	NORM/ NATIO
GG-28 TYPE I	ANNEX BUILDING EAST PARKING OVERVIEW			NIC	NOT IN
GG-29 TYPE II	ANNEX BUILDING SOUTH DOCK AND DOORS CLOSE UP			NO	NORM
GG-30 TYPE I	ANNEX BUILDING SOUTH PARKING OVERVIEW		TYPE IV - VARIFOCAL MEGAPIXEL SINGLE SENSOR IP	NTS	NOT TO
GG-31 TYPE II	ANNEX BUILDING SOUTH ENTRY CLOSE UP		BOX CAMERA WITH LENS	OD	OUTSI
GG-32 TYPE I	ANNEX BUILDING WEST PARKING OVERVIEW	HD	Box of were with Lend	PA	PUBLIC
GG-33 TYPE III	ANNEX BUILDING PTZ			QTY	QUANT
GG-34 TYPE II	ANNEX BUILDING NORTH ENTRANCE CLOSE UP	\frown		RCP	REFLE
GG-35 TYPE I	ANNEX BUILDING NORTH PARKING OVERVIEW		TYPE V - VERIFOCAL MEGAPIXEL SINGLE IP LICENSE	REF	REFER
GG-36 TYPE I	ANNEX BUILDING CASH DOCK OVERVIEW		PLATE CAMERA WITH BUILT-IN IR LEDS	REV RM	REVISI ROOM
GG-37 TYPE II	BUS SERVICE COUNTER WINDOWS CLOSE UP			SMS	SECUR
GG-38 TYPE II	HALLWAY OUTSIDE PARTS ROOM OVERVIEW	LR		SF	SQUAR
GG-39 TYPE II	PARTS COUNTER WINDOWS CLOSE UP		TYPE VI - VARIFOCAL MEGAPIXEL SINGLE SENSOR IP	TSP	TWISTI
GG-40 TYPE I	PARTS COUNTER WINDOWS CLOSE OF PARTS SHELVING ROWS AND STAIRWELL DOOR OVERVIEW		BOX CAMERA WITH LONG RANGE LENS	TRANS	TRANS
GG-40 TYPE I		П	Box of ment with conditioned lend	UL	UNDER
GG-41 TYPE I GG-42 TYPE II	PARTS SHELVING ROWS AND BACK DESK OVERVIEW PARTS FIRST FLOOR DOCK AREA OVERVIEW		ENCLOSURE, CAMERA EQUIPMENT ENCLOSURE	UNO	UNLES
GG-42 TYPE II GG-43 TYPE II	PARTS FIRST FLOOR DOCK AREA OVERVIEW PARTS ROOM SECOND FLOOR OVERVIEW	ENC 1	WITH NOTATED NUMBER OF CAMERAS	UTP	UNSHE
GG-43 TYPE II GG-44 TYPE 1	OPERATIONS MAIN HALLWAY TRAFFIC CORRIDOR			V	VOLT
00-44 ITEI				VA VMS	

CAMERA SCHEDULE

CAMERA TYPE	DESCRIPTION
TYPE I	12 MEGA PIXEL 180° MUL
TYPE II	3 MEGA PIXEL DOME CAM
TYPE III	1080P PTZ CAMERA
TYPE IV	3 MEGA PIXEL BOX CAME
	INSTALLED INTO EXISTIN
TYPE V	3 MEGA PIXEL DOME LICE
	WITH VARIFOCAL LENS A
TYPE VI	3 MEGA PIXEL BULLET W

ETHERNET SWITCH SCHEDULE

SPECIFICATIONS BASED ON THE FOLLOWING SWITCHES. SUITABILITY FOR THIS PROJECT AND ALL CAPABILITIES AND PERFORMANCE FACTORS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

1. SWITCH-1 = CISCO CATALYST WS-C3850-48U WITH ONE C3850-NM-4-10G AND A MATCHING QUANTITY OF COMPATIBLE CISCO SFP+ MODULES 2. SWITCH-2 = CISCO CATALYST WS-C3850-24XU WITH ONE C3850-NM-4-10G AND A MATCHING QUANTITY OF COMPATIBLE CISCO SFP+ MODULES 3. SWITCH-3 = CISCO CATALYST WS-C3850-24XU WITH ONE C3850-NM-4-10G AND A MATCHING QUANTITY OF COMPATIBLE CISCO SFP+ MODULES 4. SWITCH-4 = CISCO CATALYST WS-C3850-24XU WITH ONE C3850-NM-4-10G AND A MATCHING QUANTITY OF COMPATIBLE CISCO SFP+ MODULES 5. SWITCH-5 = CISCO CATALYST C3560CX-12PD WITH A MATCHING QUANTITY

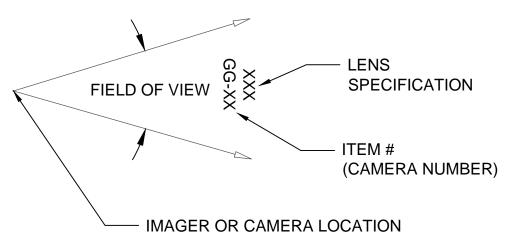
- OF COMPATIBLE CISCO SFP+ MODULES 6. ENCLOSURE 1 = COMNET ETHERNET 2 PORT SWITCH CNGE2+2SMSPOEHO
- WITH COMPATIBLE 1GB SFP/SFP+ MODULES 7. ENCLOSURE 2 = COMNET ETHERNET 2 PORT SWITCH CNGE2+2SMSPOEHO WITH COMPATIBLE 1GB SFP/SFP+ MODULES

TI-SENSOR DOME CAMERA MERA (STANDARD VARIFOCAL LENS)

ERA WITH VARIFOCAL LENS

NG HOUSING ENSE PLATE RECOGNITION CAMERA AND BUILT-IN IR LEDS VITH VARIFOCAL LONG RANGE LENS

CAMERA FIELD OF VIEW EXPRESSION EXAMPLE

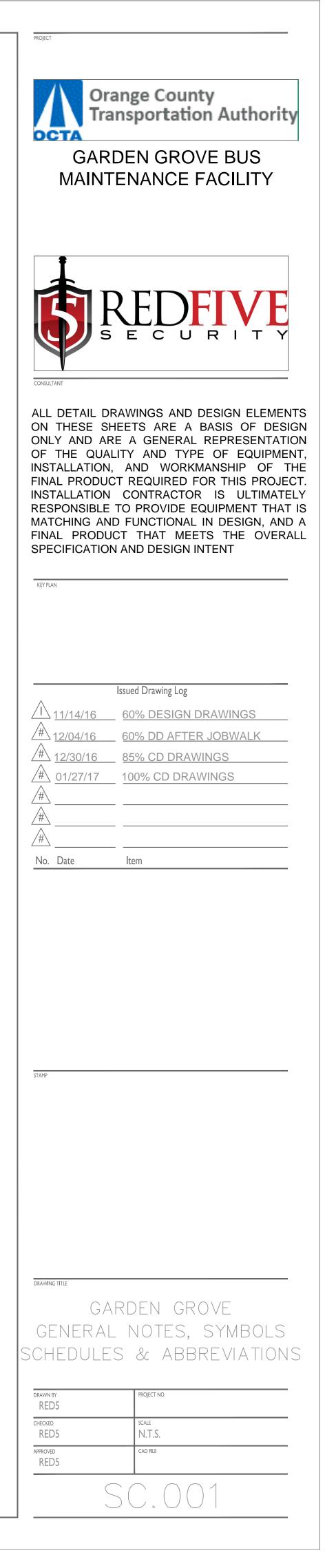


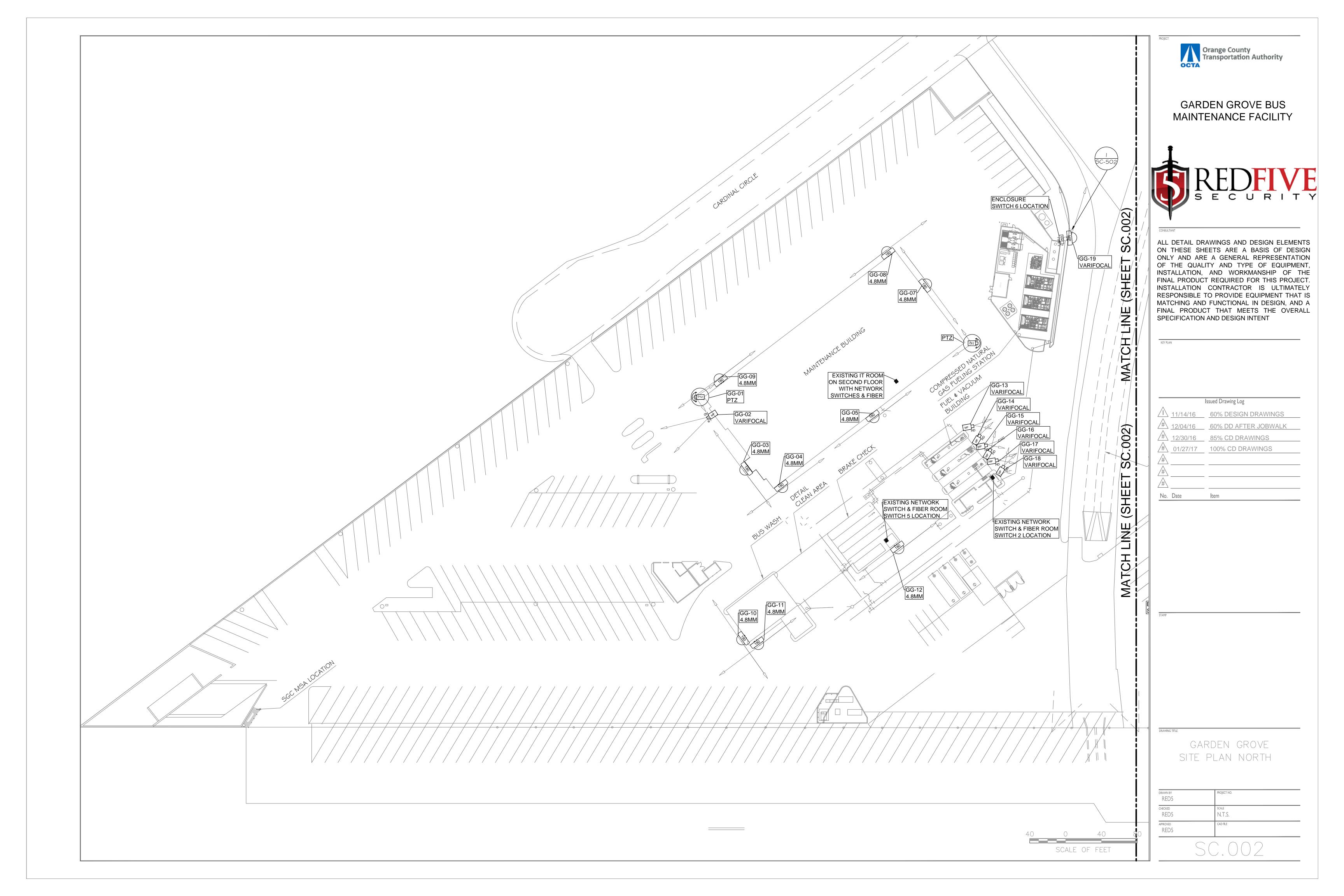
CONFIRM ALL FIELDS OF VIEWS WITH OWNER DURING FINAL CAMERA PLACEMENT, AND REFINE VIEWS DURING FINAL SYSTEM CHECKOUT.

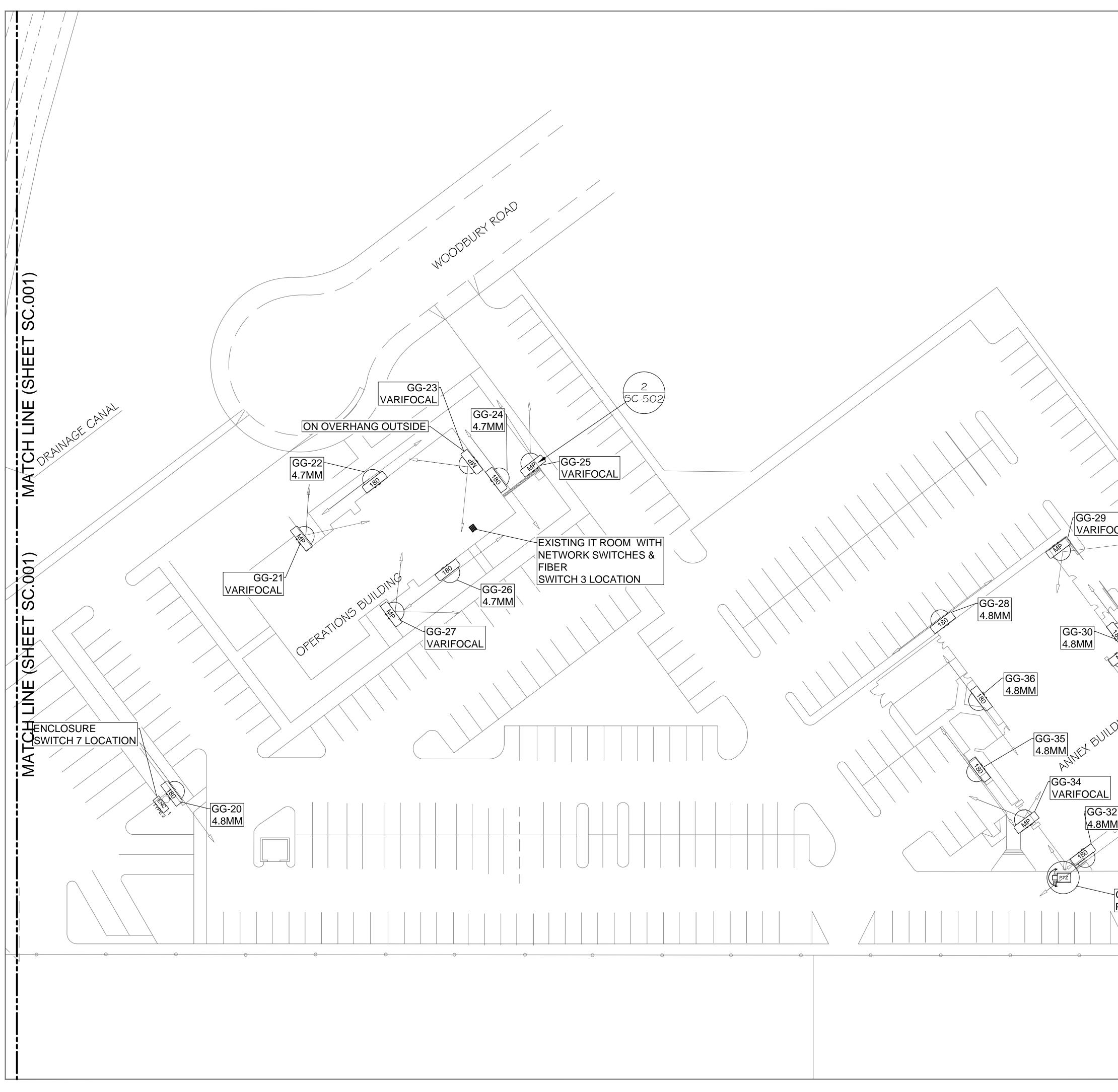
ABBREVIATIONS

REVIATIONS VE FINISHED FLOOR ESS CONTROL PANEL **ERICAN WIRE GAUGE** SED CIRCUIT TELEVISION ECT CURRENT METER ENSION SION A GATHERING PANEL JBLE POLE DOUBLE THROW JBLE POLE SINGLE THROW CTRICAL SHED FLOOR SHED FLOOR ELEVATION SHED FLOOR LINE OR T, FEET, IERAL CONTRACTOR DUND FAULT CIRCUIT INTERRUPTED GHT IDHOLE DE DIAMETER RUSION DETECTION SYSTEMS CTION BOX JID CRYSTAL DIODE / VOLTAGE IHOLE IMETER RMALLY CLOSED IONAL ELECTRICAL CODE IN CONTRACT RMALLY OPEN TO SCALE SIDE DIAMETER LIC ADDRESS NTITY LECTED CEILING PLAN ERENCE ISION M URITY MANAGEMENT SYSTEM JARE FOOT STED SHEILDED PAIR NSFORMER ERWRITERS' LABORATORIES ESS NOTED OTHERWISE HEILDED TWISTED PAIR T AMPERE VIDEO MANAGEMENT SYSTEM

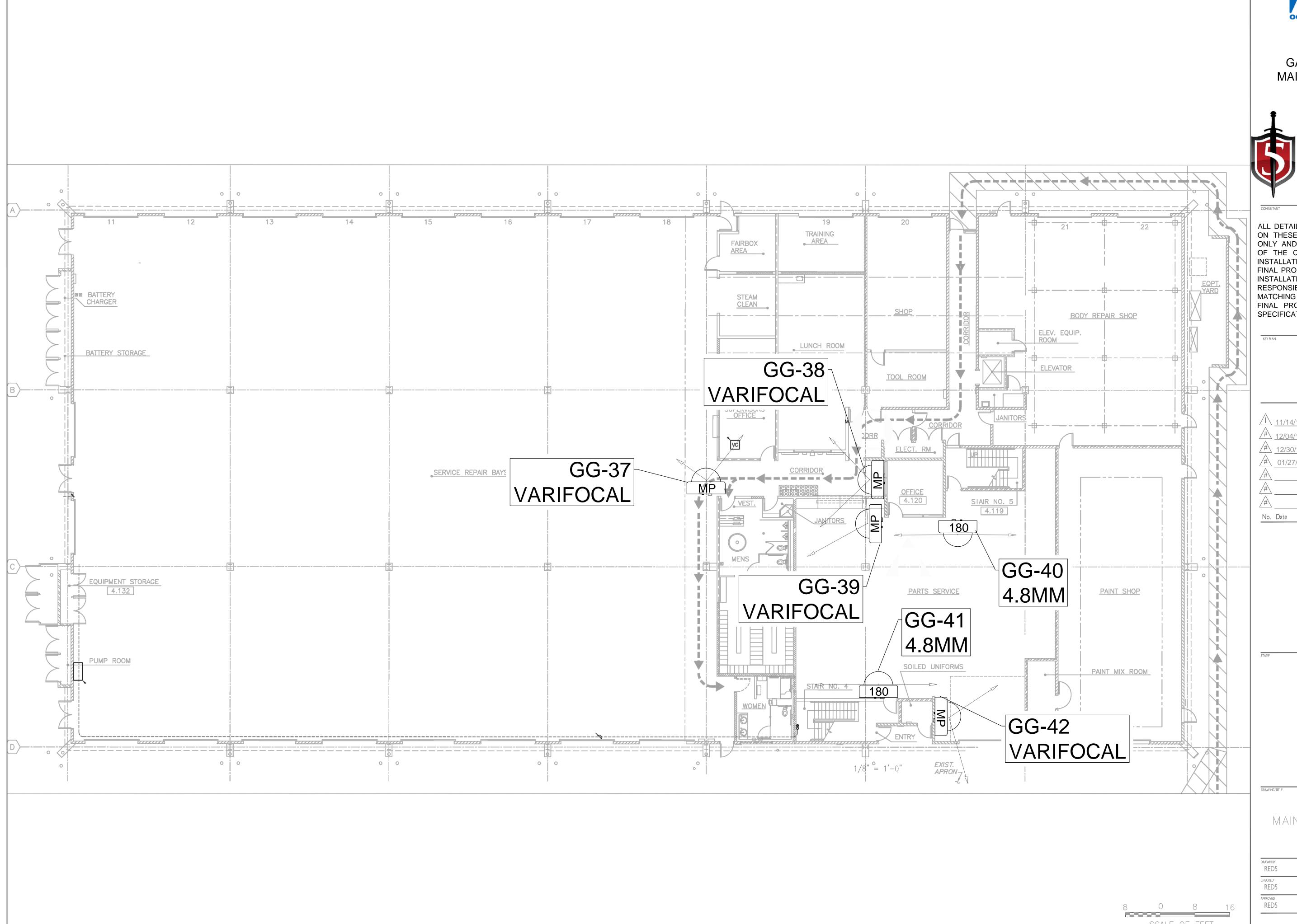
VMS

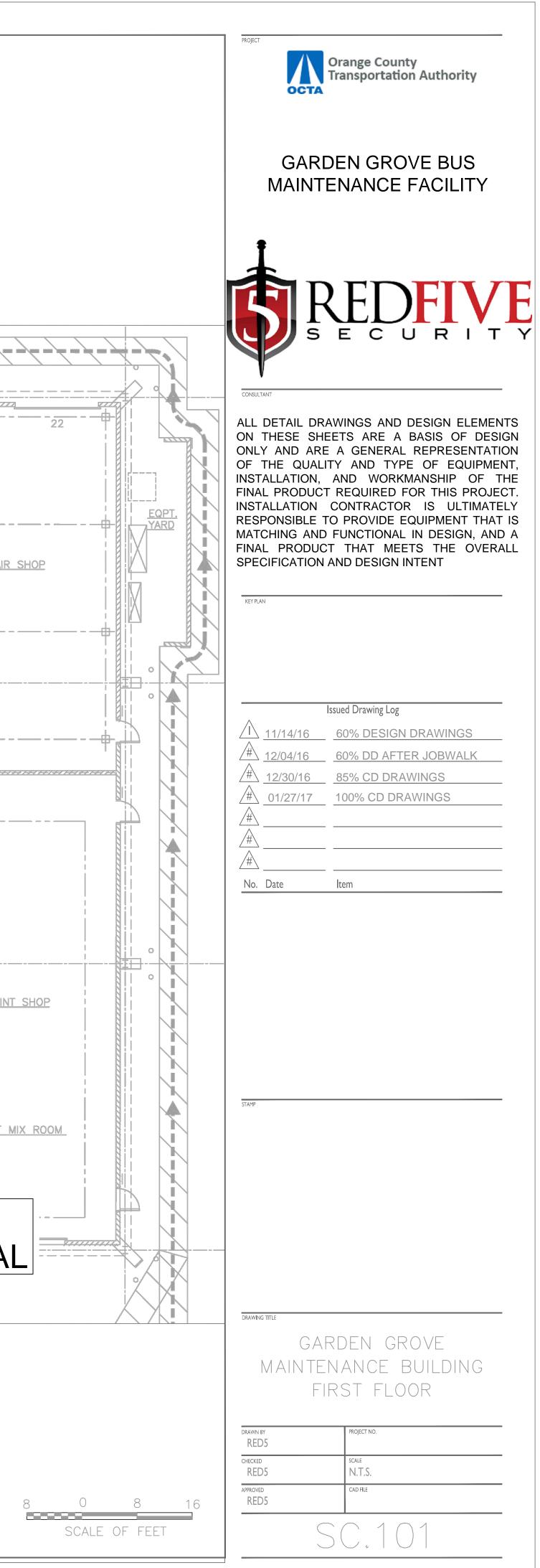




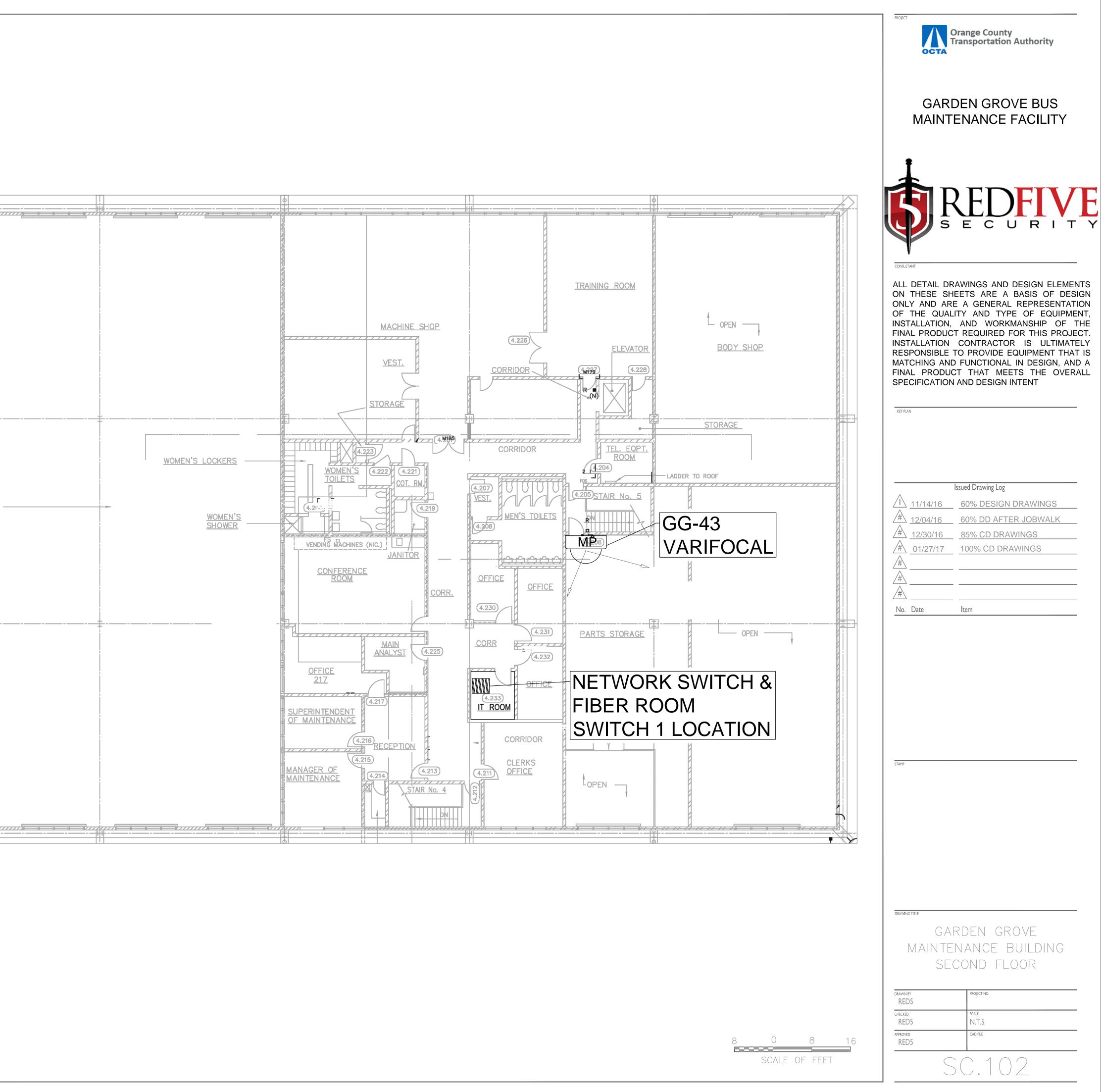


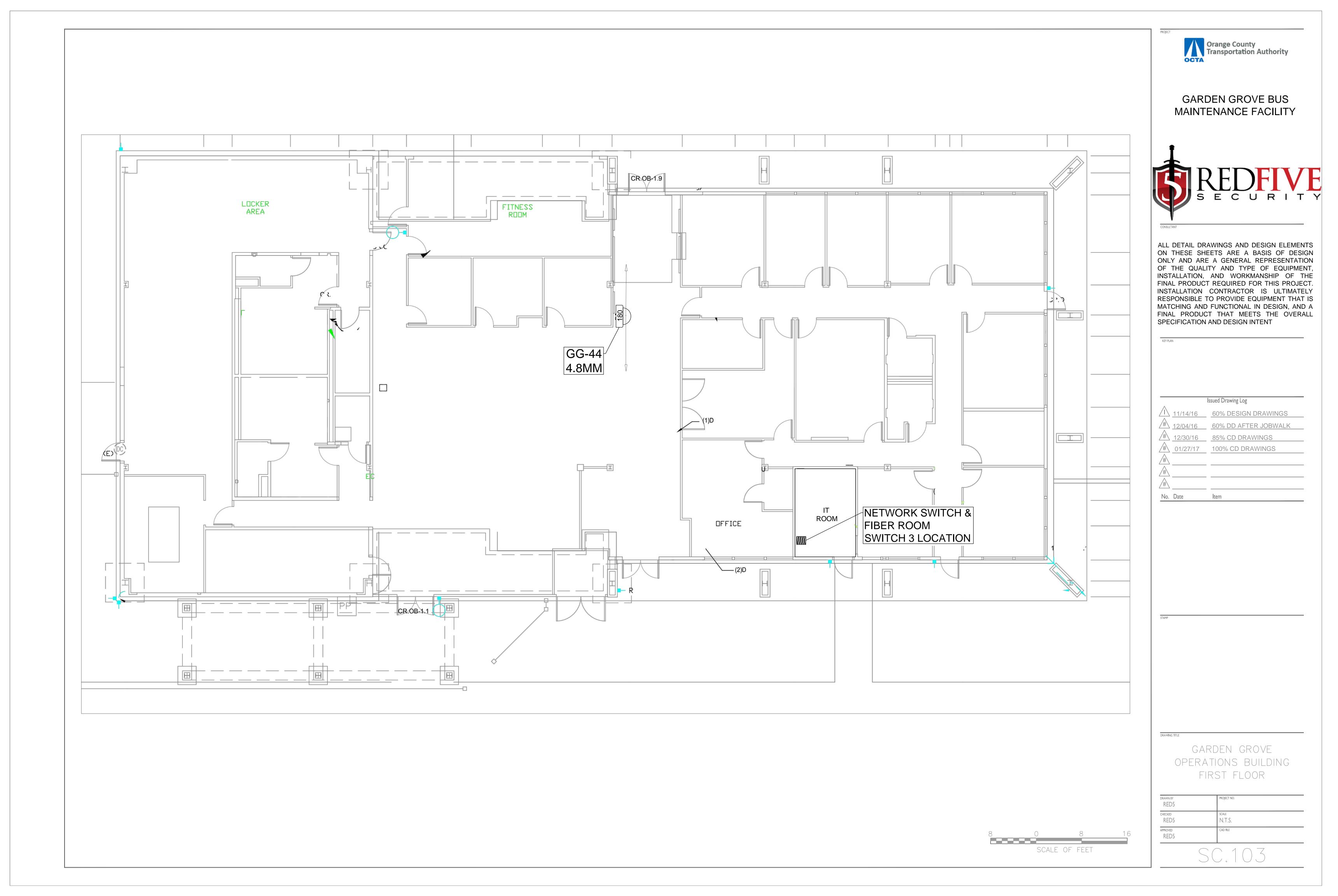
	PROJECT Orange County Transportation Authority
	GARDEN GROVE BUS MAINTENANCE FACILITY
	CONSULTANT
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GG-31 VARIFOCAL	No. Date Item
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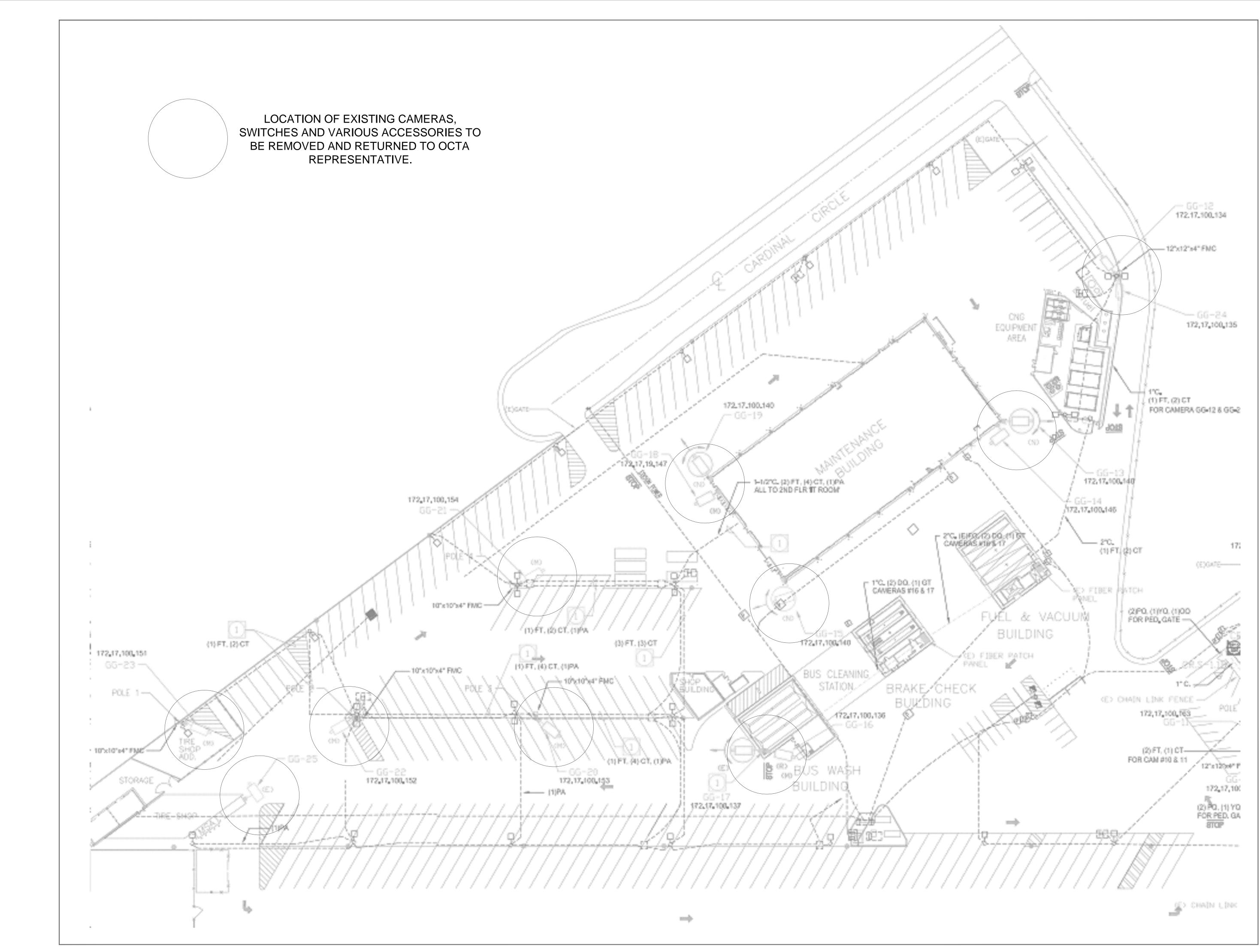




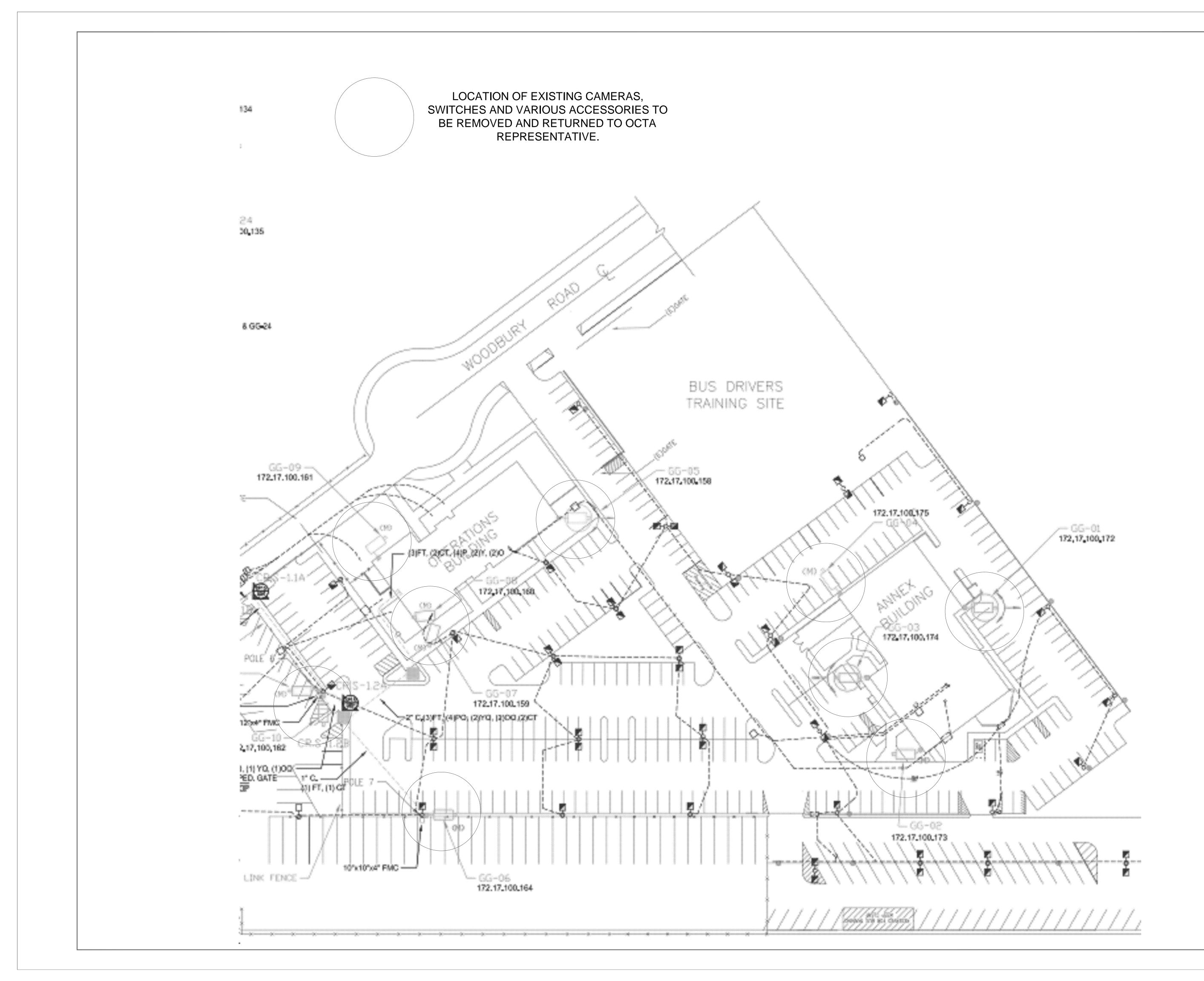
			
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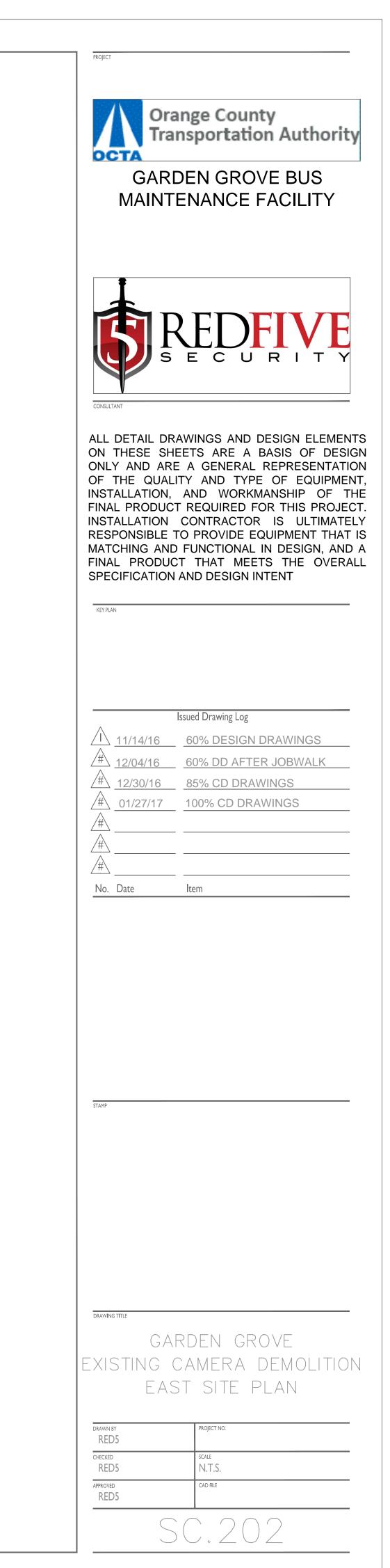


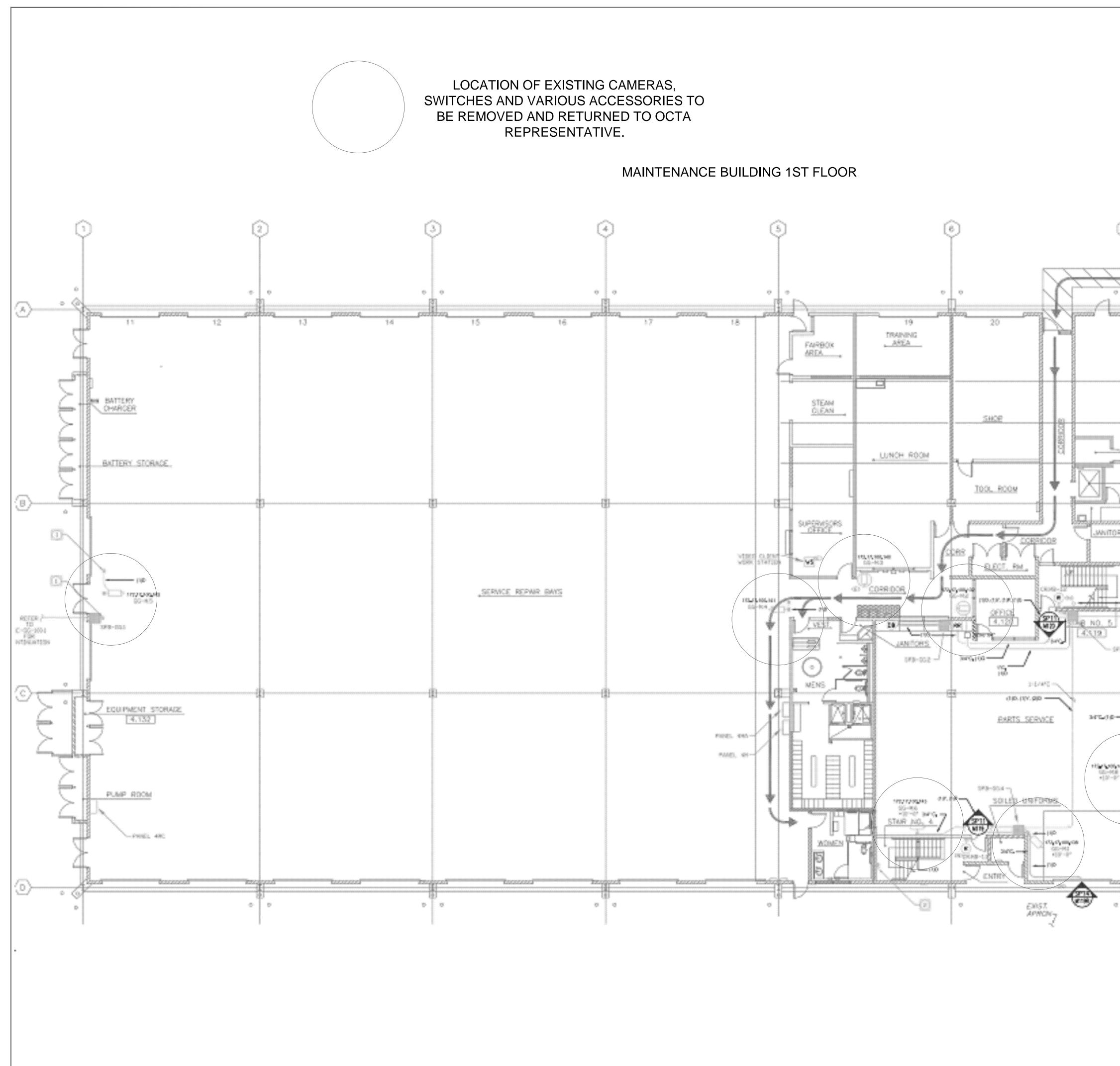




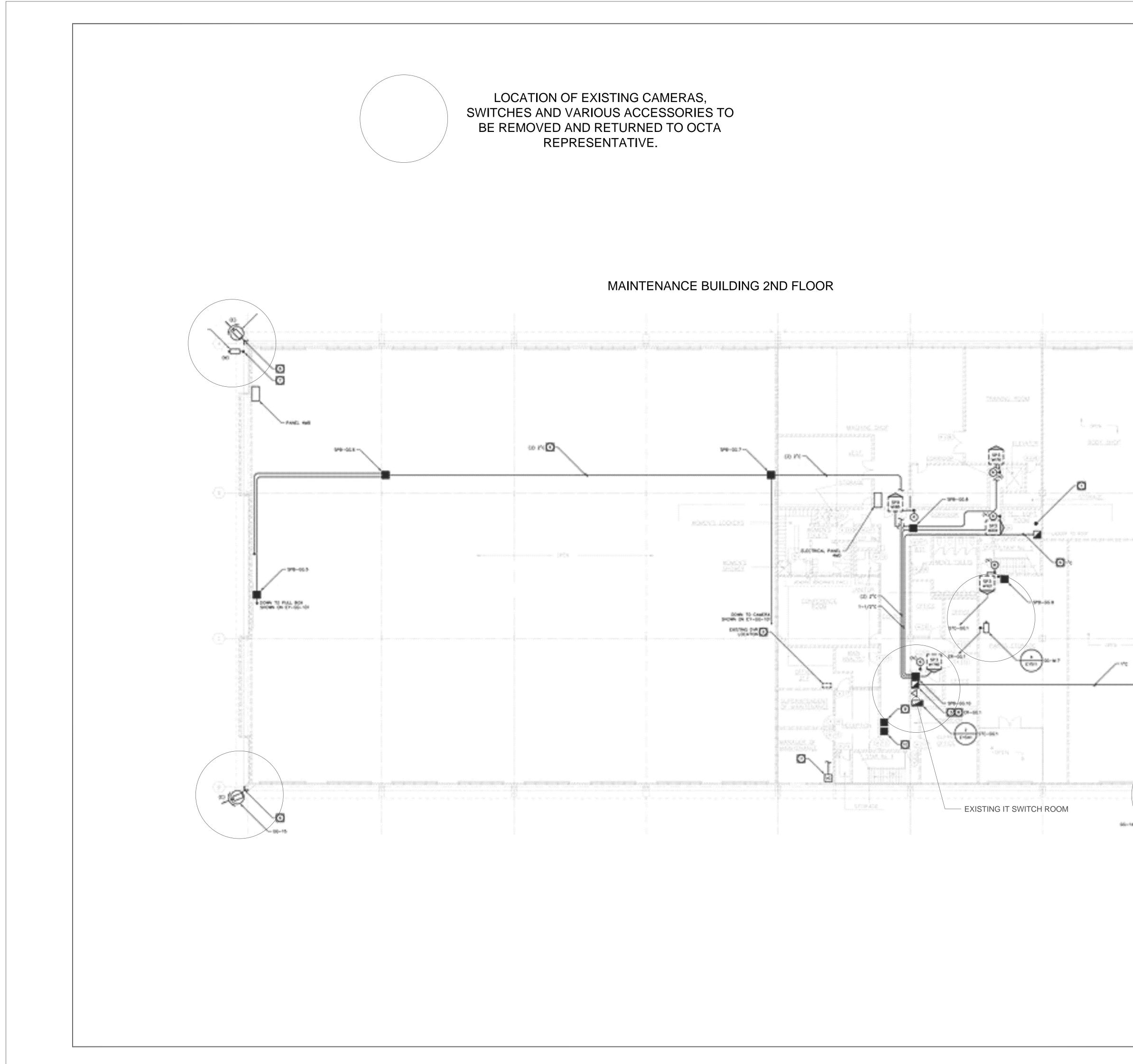
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CONSULTANT	E C U R I T Y
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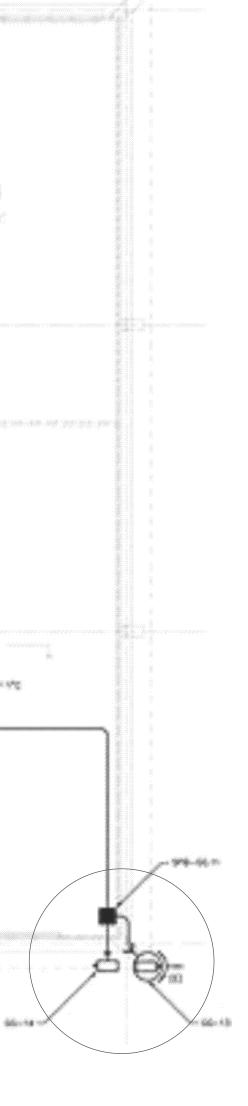


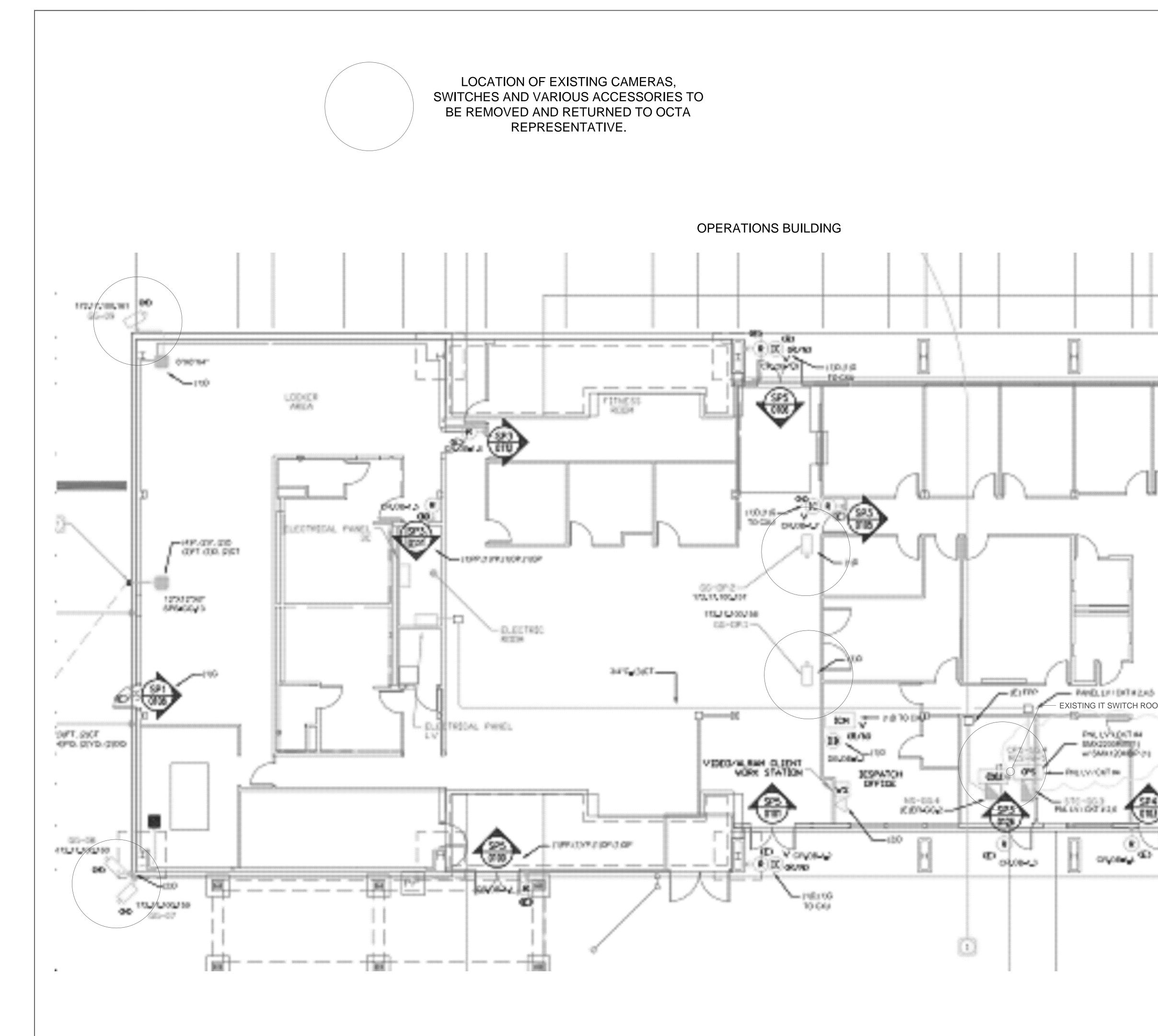


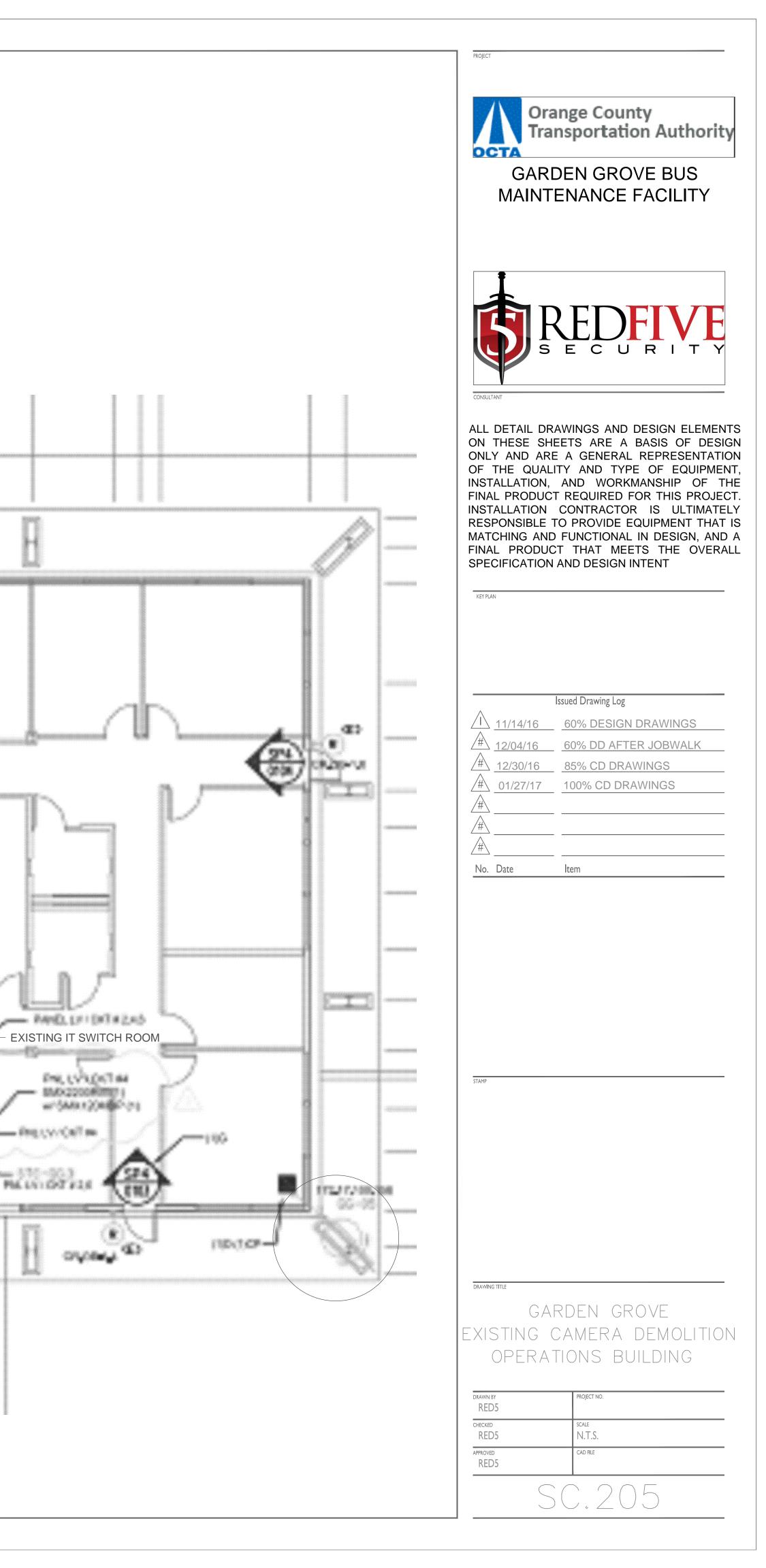
Orange County Transportation Authority GARDEN GROVE BUS MAINTENANCE FACILITY
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DRAWING TITLE GARDEN GROVE EXISTING CAMERA DEMOLITION MAINTENANCE 1ST FLOOR DRAWN BY RED5 CHECKED RED5 APPROVED RED5 CAD RLE CAD RLE SC.203

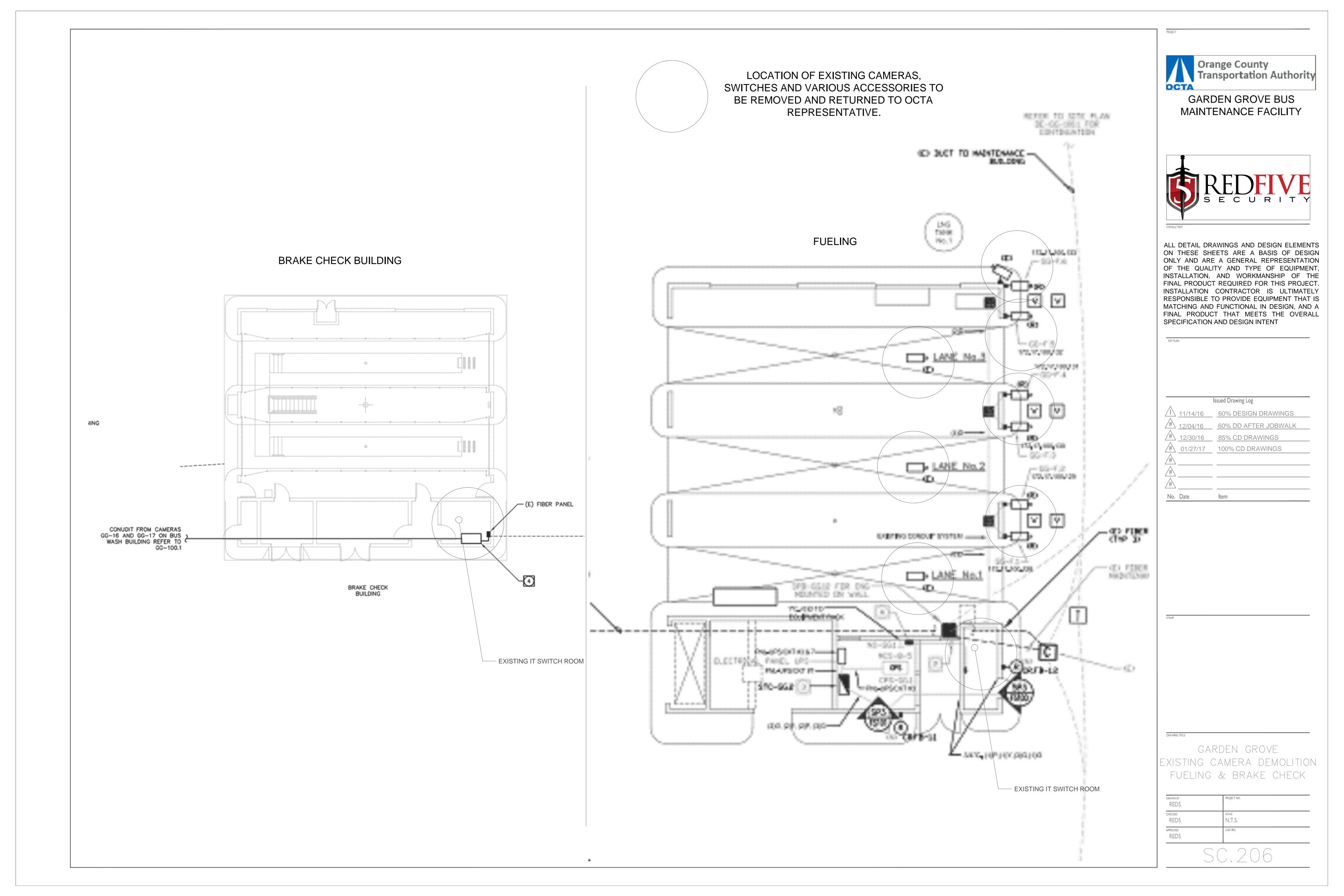


GARDEN GROVE BUS MAINTENANCE FACILITY Image: Construction of the state of t	MAINTENANCE FACILITY				
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GARDEN GROVE Existing camera demolition		No. D No. D STAMP	LE GAI TING (RDEN GROVE CAMERA DEMOLITI	
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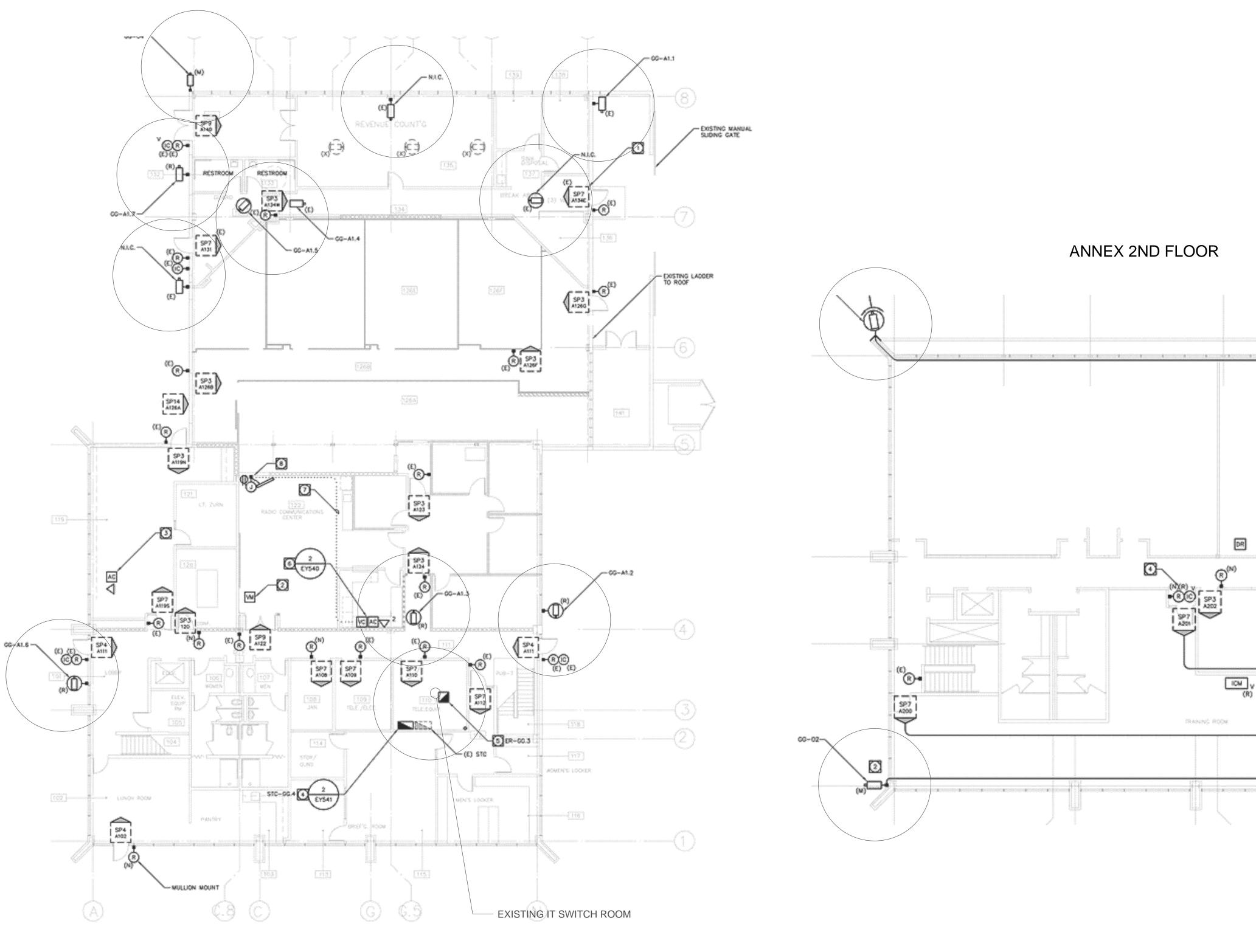


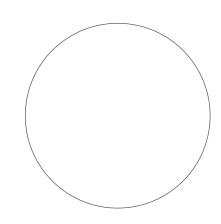






ANNEX 1ST FLOOR





LOCATION OF EXISTING CAMERAS, SWITCHES AND VARIOUS ACCESSORIES TO BE REMOVED AND RETURNED TO OCTA REPRESENTATIVE.



ALL DETAIL DRAWINGS AND DESIGN ELEMENTS ON THESE SHEETS ARE A BASIS OF DESIGN ONLY AND ARE A GENERAL REPRESENTATION OF THE QUALITY AND TYPE OF EQUIPMENT, INSTALLATION, AND WORKMANSHIP OF THE FINAL PRODUCT REQUIRED FOR THIS PROJECT. INSTALLATION CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROVIDE EQUIPMENT THAT IS MATCHING AND FUNCTIONAL IN DESIGN, AND A FINAL PRODUCT THAT MEETS THE OVERALL SPECIFICATION AND DESIGN INTENT

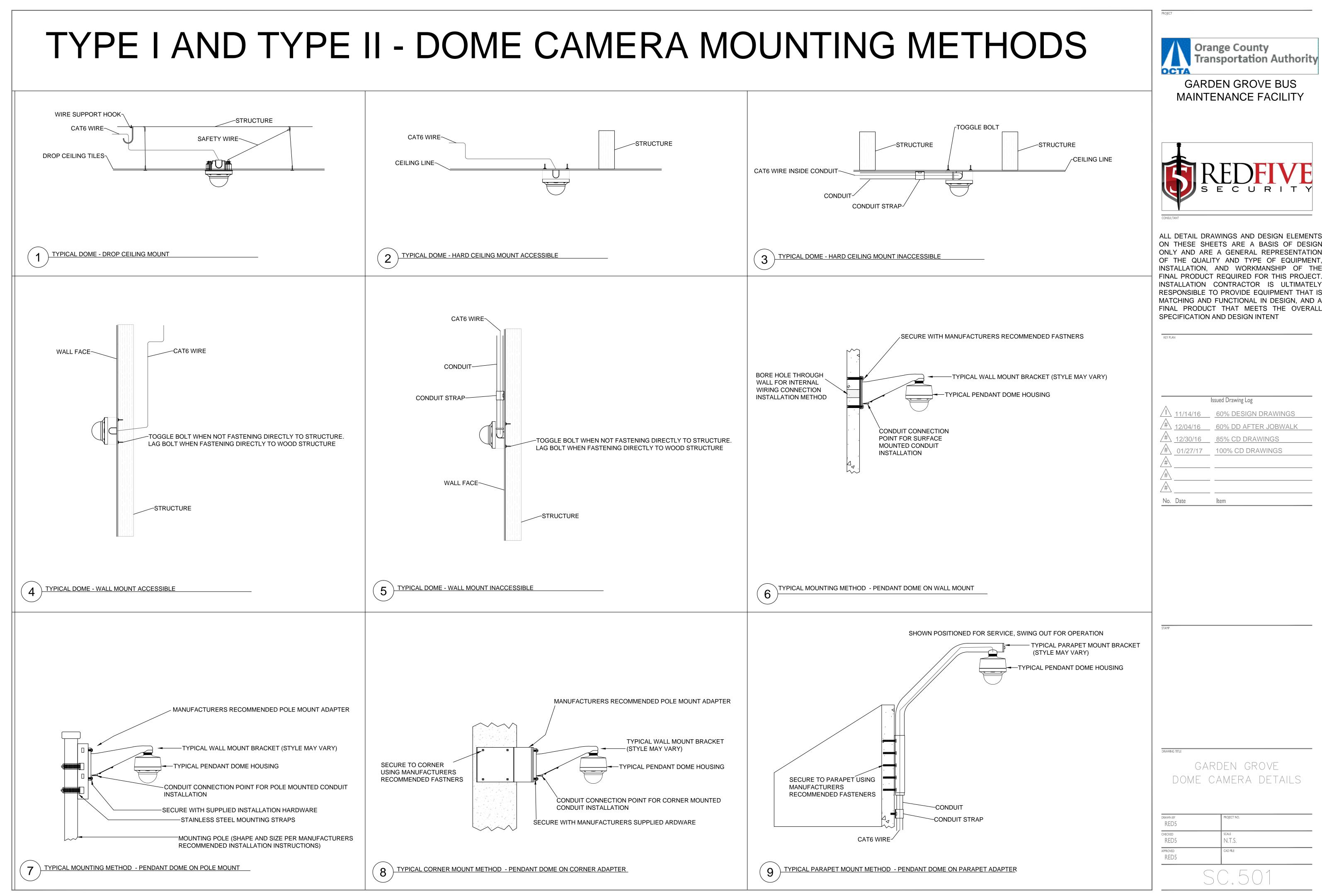
		Issued Drawing Log
$\overline{\mathbf{N}}$	11/14/16	60% DESIGN DRAWINGS
ŧ	12/04/16	60% DD AFTER JOBWALK
	12/30/16	85% CD DRAWINGS
	01/27/17	100% CD DRAWINGS
\setminus		
_		
).	Date	ltem

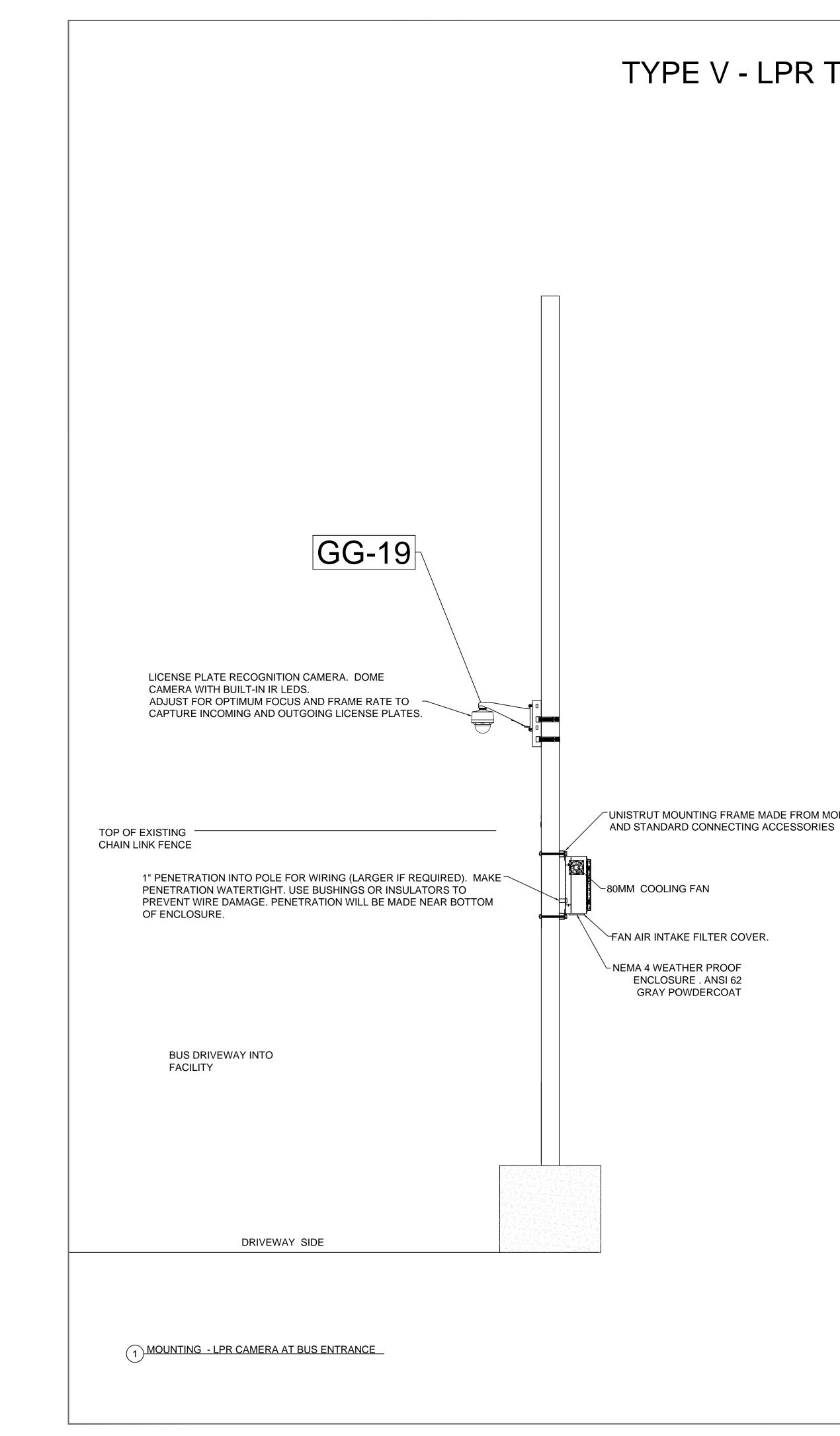
KEY PLAN

DRAWING TITLE

GARDEN GROVE EXISTING CAMERA DEMOLITION ANNEX 1ST & 2ND FLOOR

drawn by RED5		PROJECT NO.
CHECKED RED5		scale N.T.S.
APPROVED RED5		CAD FILE
	SC	207





TYPE V - LPR TYPE CAMERA MOUNTING METHODS

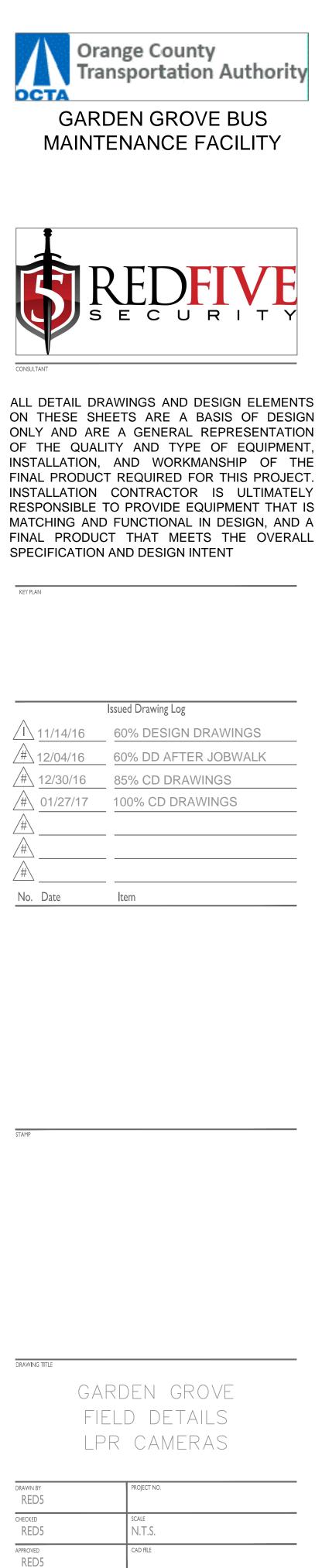
✓ UNISTRUT MOUNTING FRAME MADE FROM MODEL P-3000 1⁵/₈" X 1³/₈"

GG-25

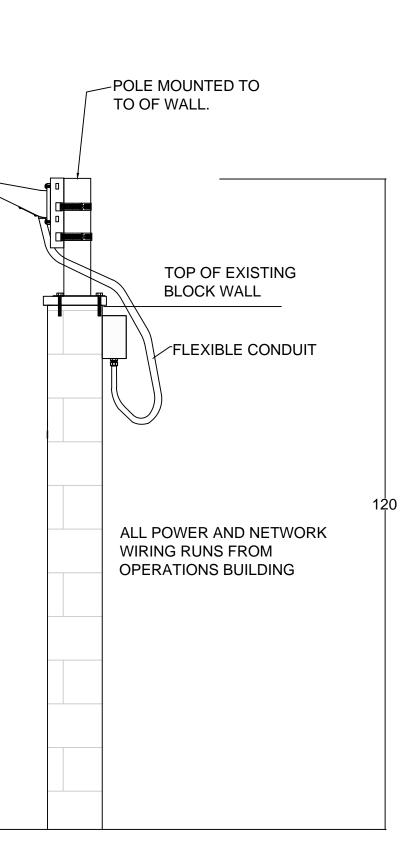
LICENSE PLATE RECOGNITION CAMERA. DOME CAMERA WITH BUILT-IN IR LEDS. ADJUST FOR OPTIMUM FOCUS AND FRAME RATE TO CAPTURE INCOMING AND OUTGOING LICENSE PLATES.

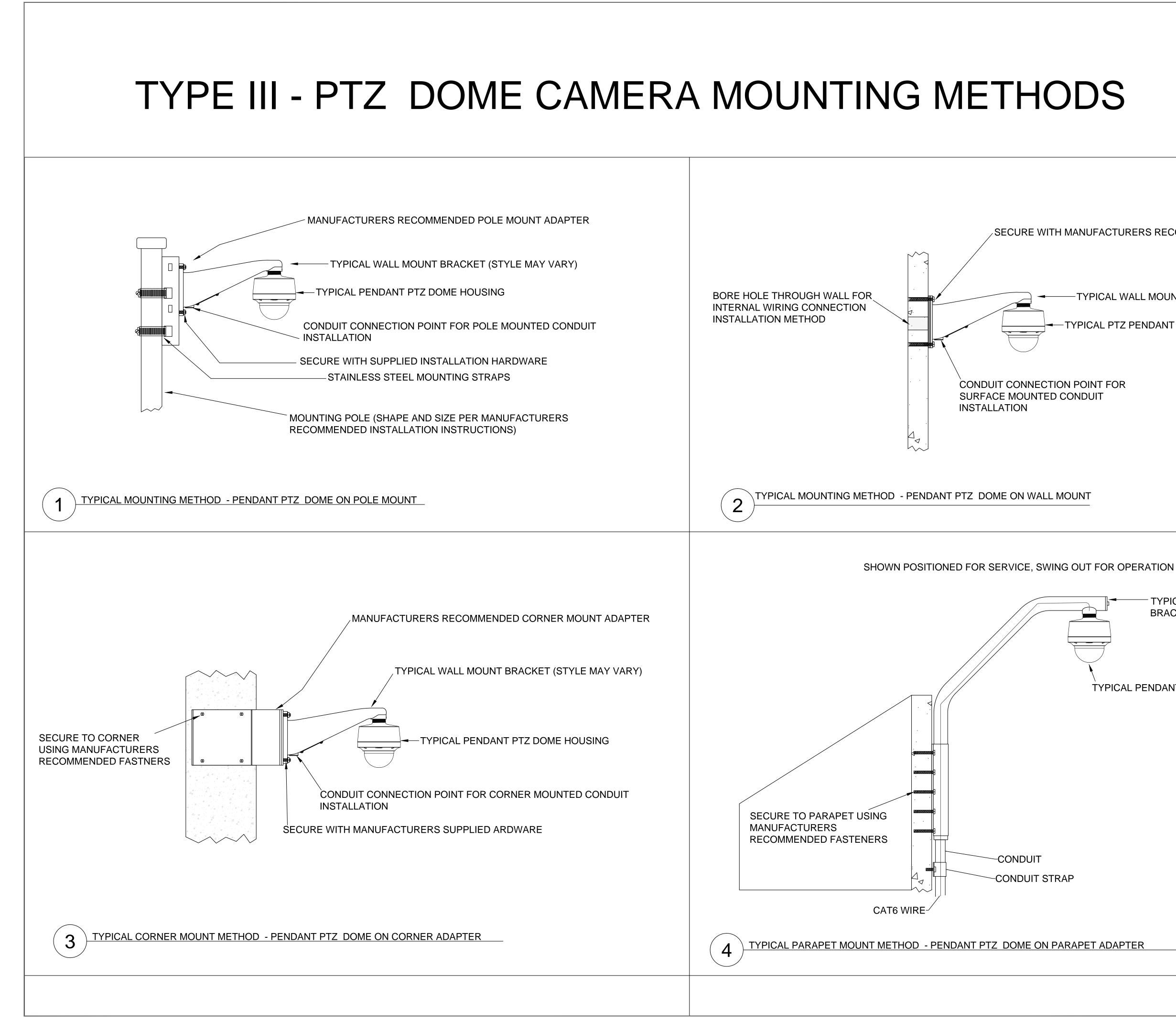
DRIVEWAY SIDE

(2) MOUNTING - LPR CAMERA MOUNTING AT MAIN ENTRY



SC.502





SECURE WITH MANUFACTURERS RECOMMENDED FASTNERS

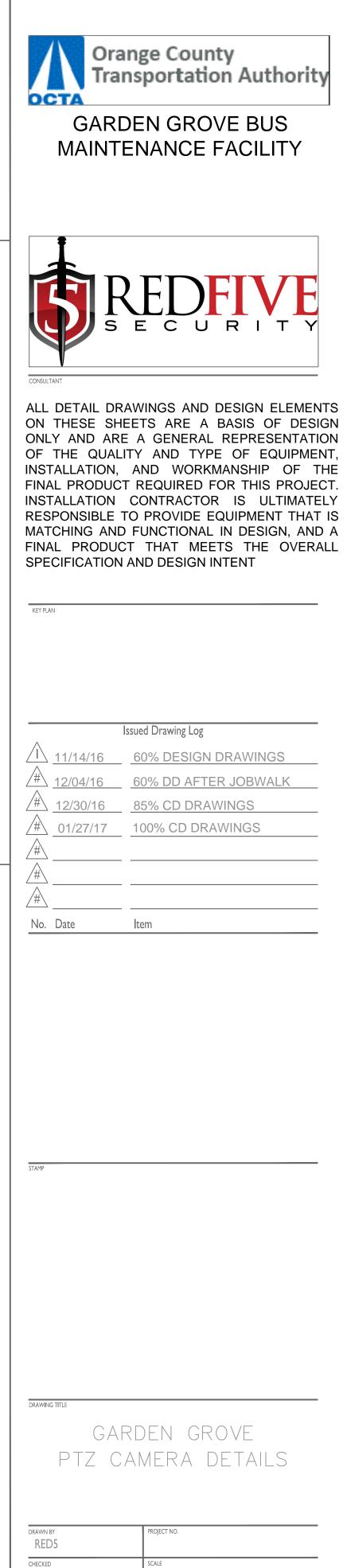
-TYPICAL WALL MOUNT BRACKET (STYLE MAY VARY)

-TYPICAL PTZ PENDANT DOME HOUSING

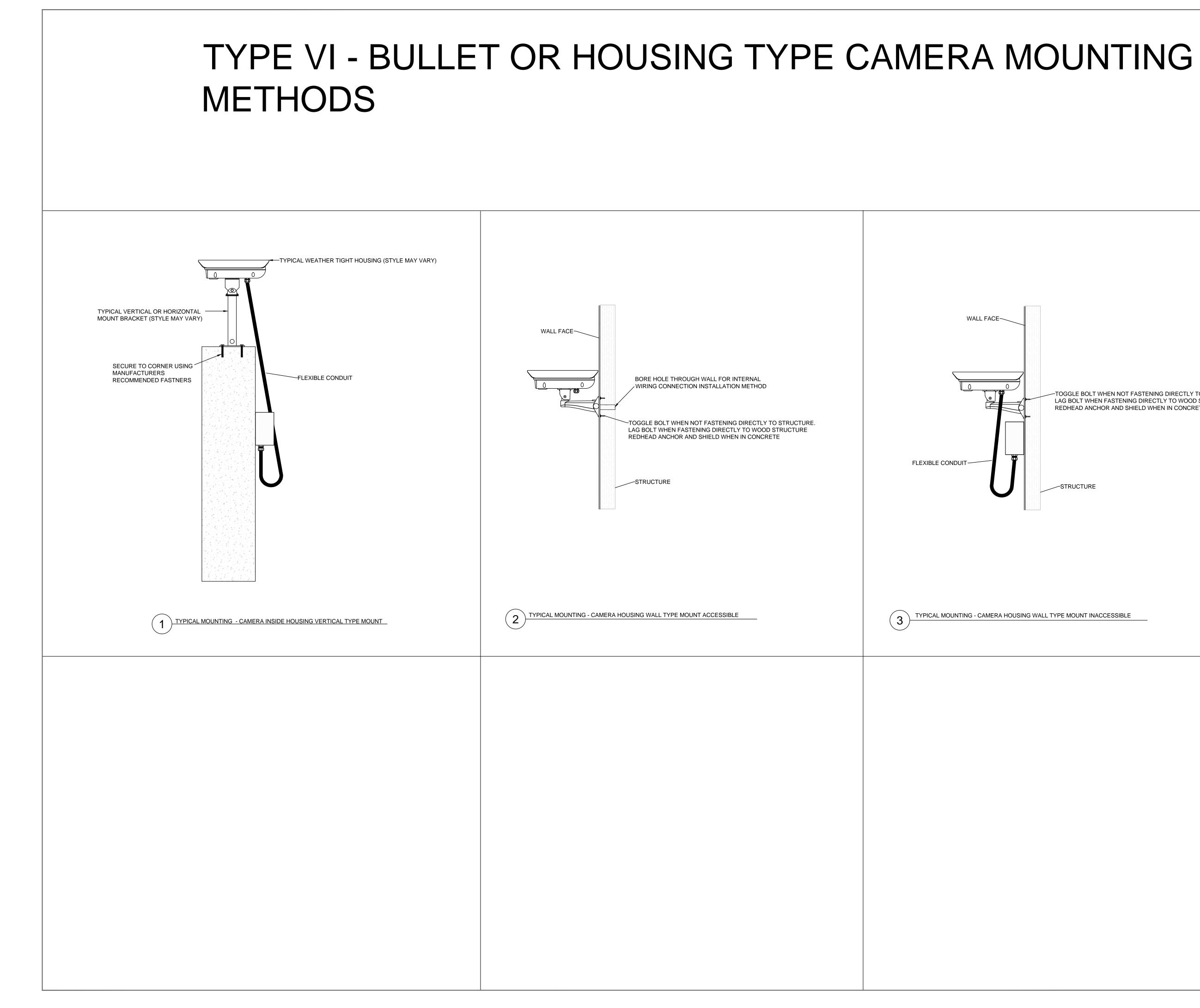
TYPICAL PARAPET MOUNT BRACKET (STYLE MAY VARY)

TYPICAL PENDANT PTZ DOME HOUSING

APET	ADAPTER	

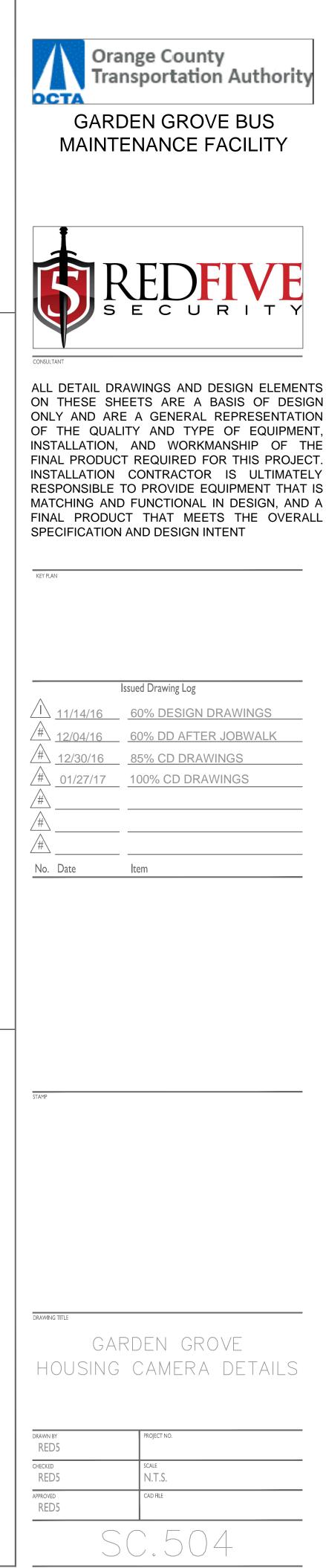


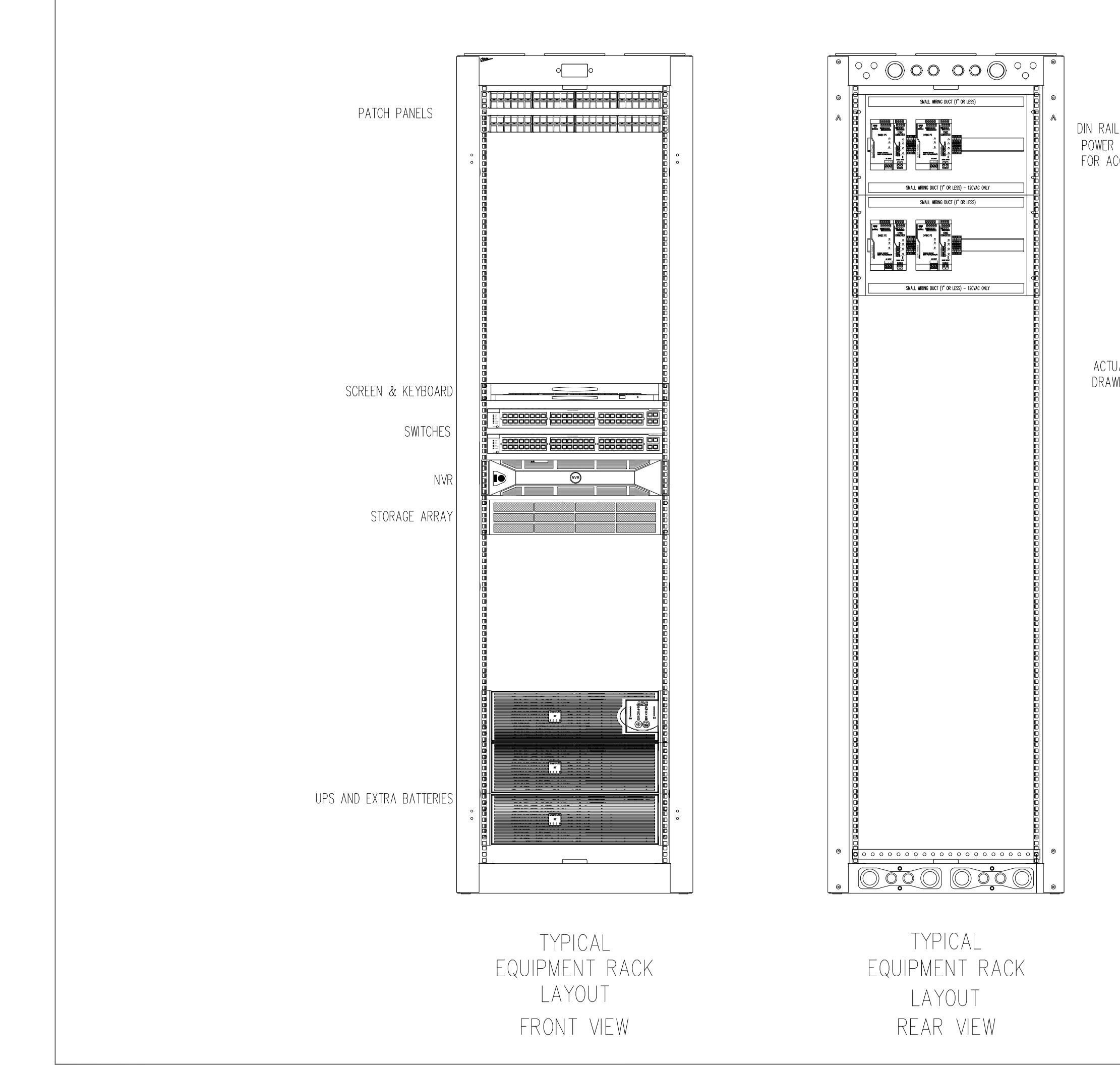
icked RED5	scale N.T.S.
roved RED5	CAD FILE
SC	2.503



TOGGLE BOLT WHEN NOT FASTENING DIRECTLY TO STRUCTURE. LAG BOLT WHEN FASTENING DIRECTLY TO WOOD STRUCTURE REDHEAD ANCHOR AND SHIELD WHEN IN CONCRETE

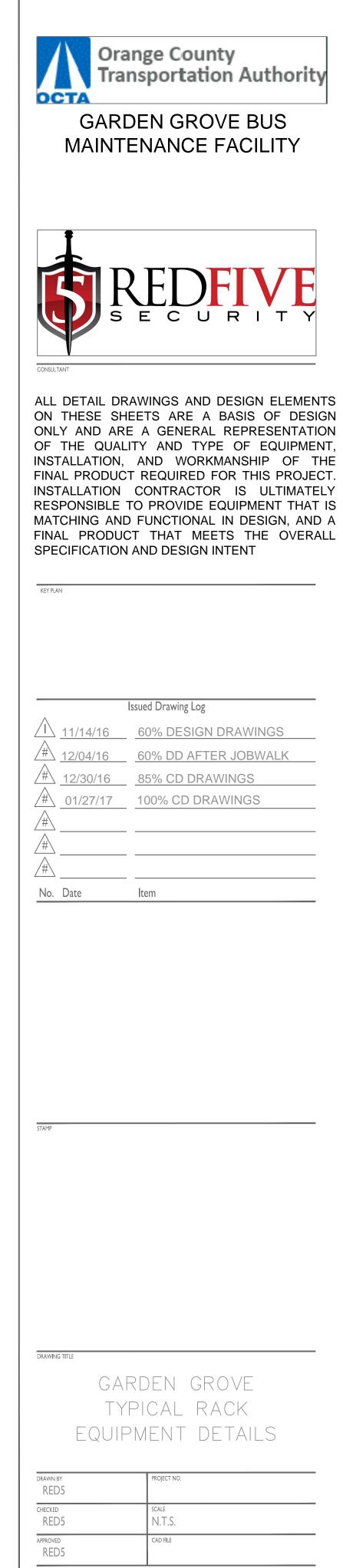
-STRUCTURE



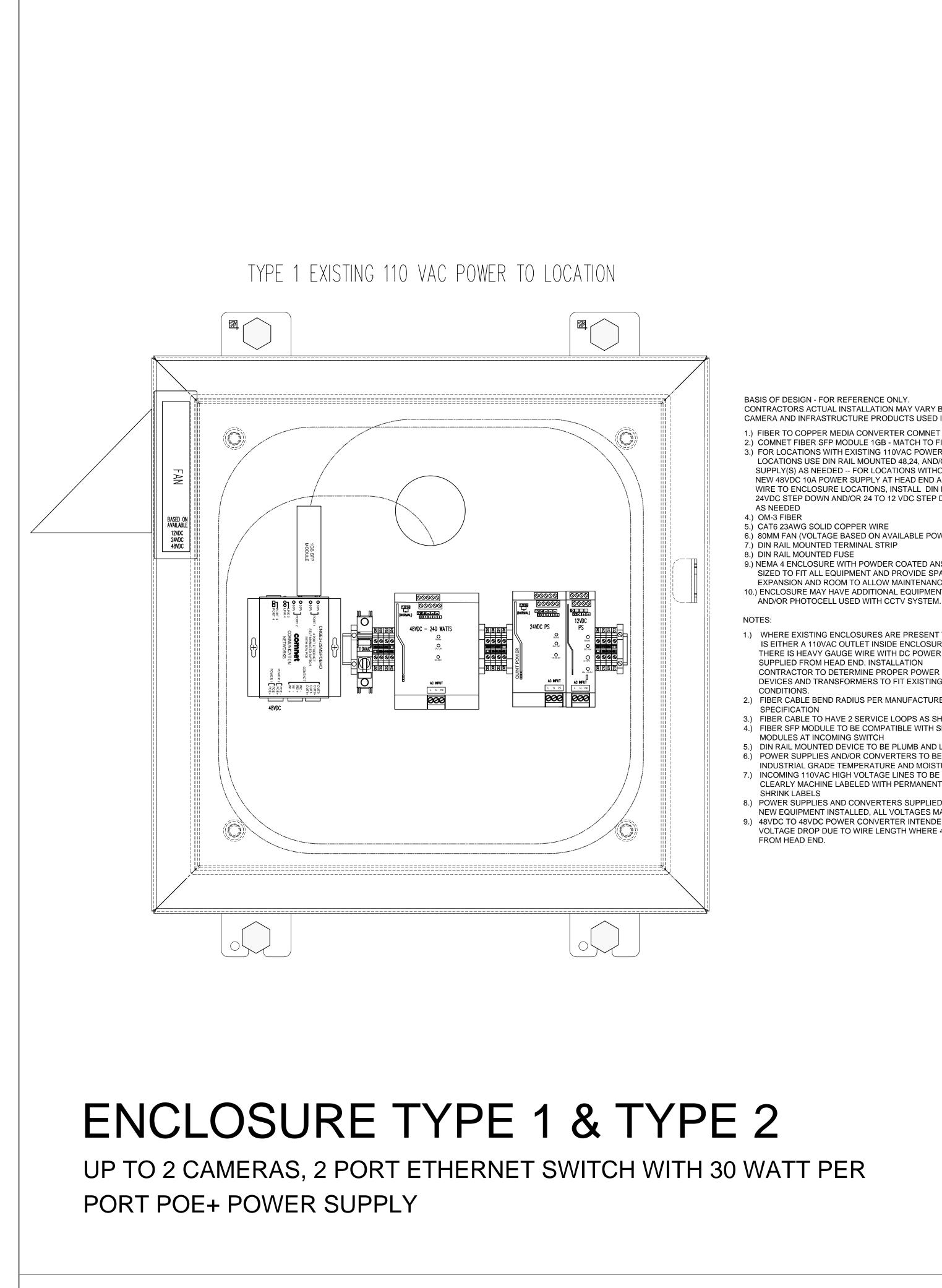


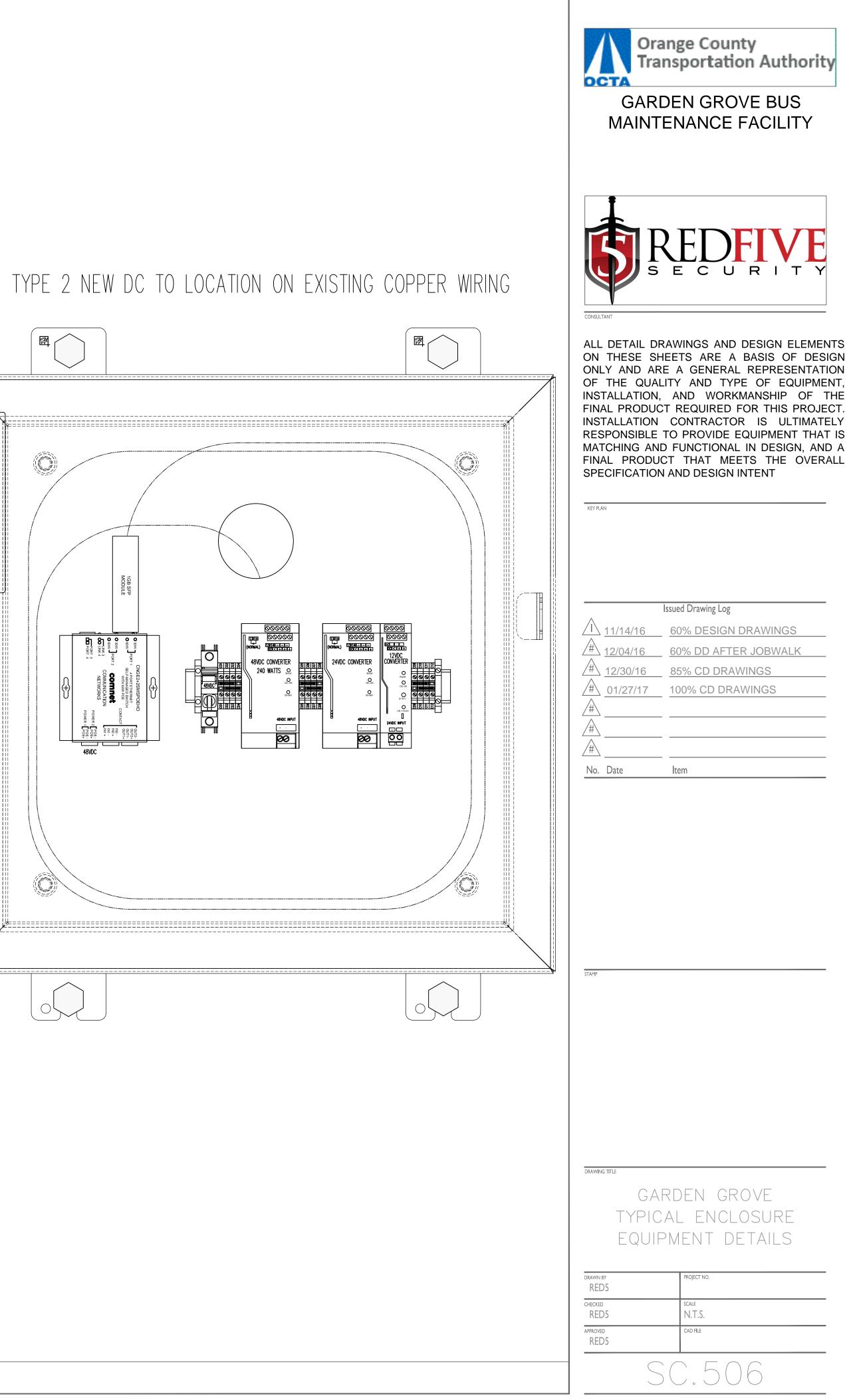
DIN RAIL MOUNTED POWER SUPPLIES FOR ACCESSORIES

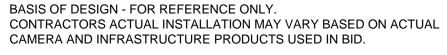
ACTUAL EQUIPMENT PER SPECIFICATIONS DRAWING FOR LAYOUT REFERENCE ONLY



SC.505

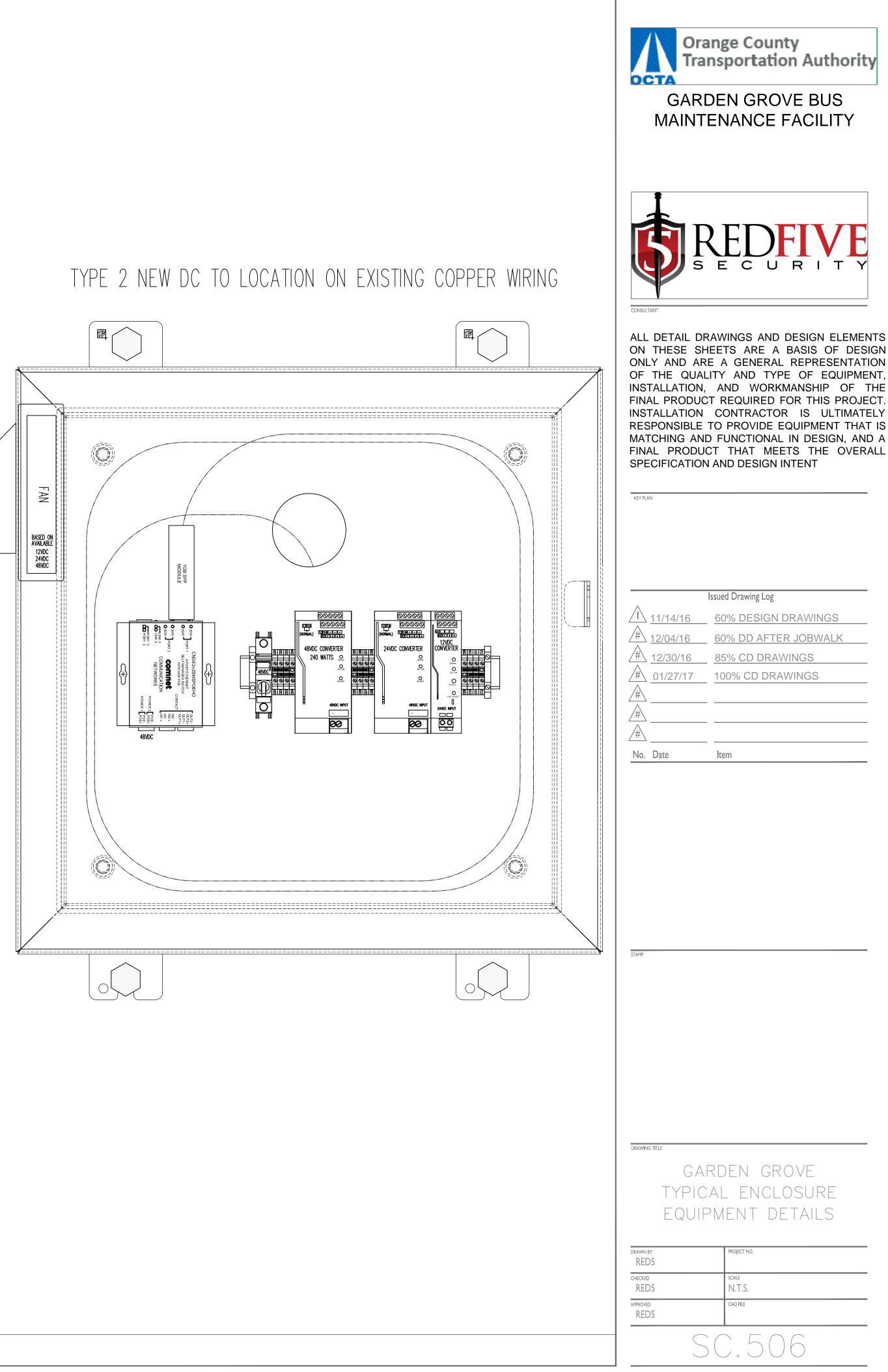


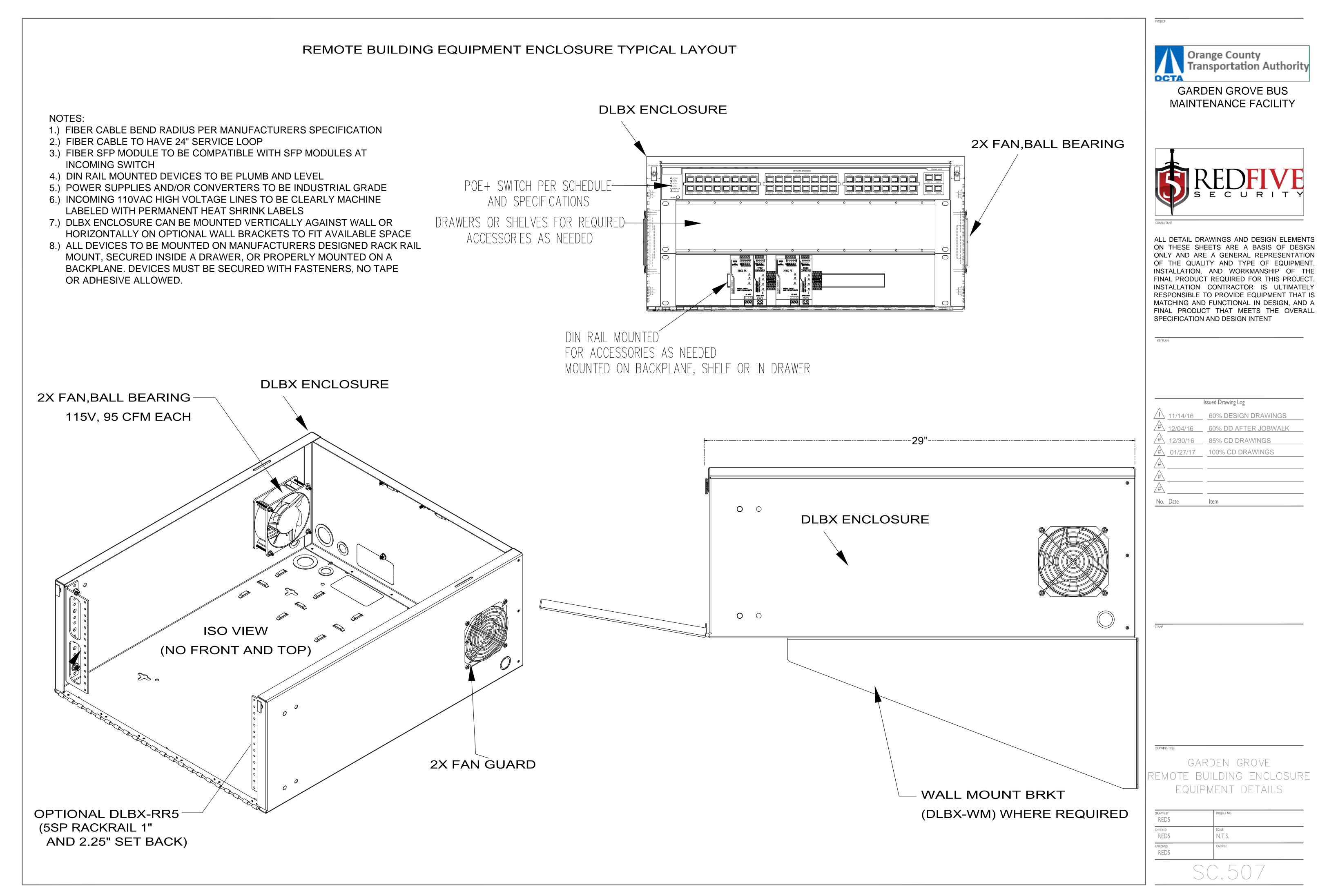




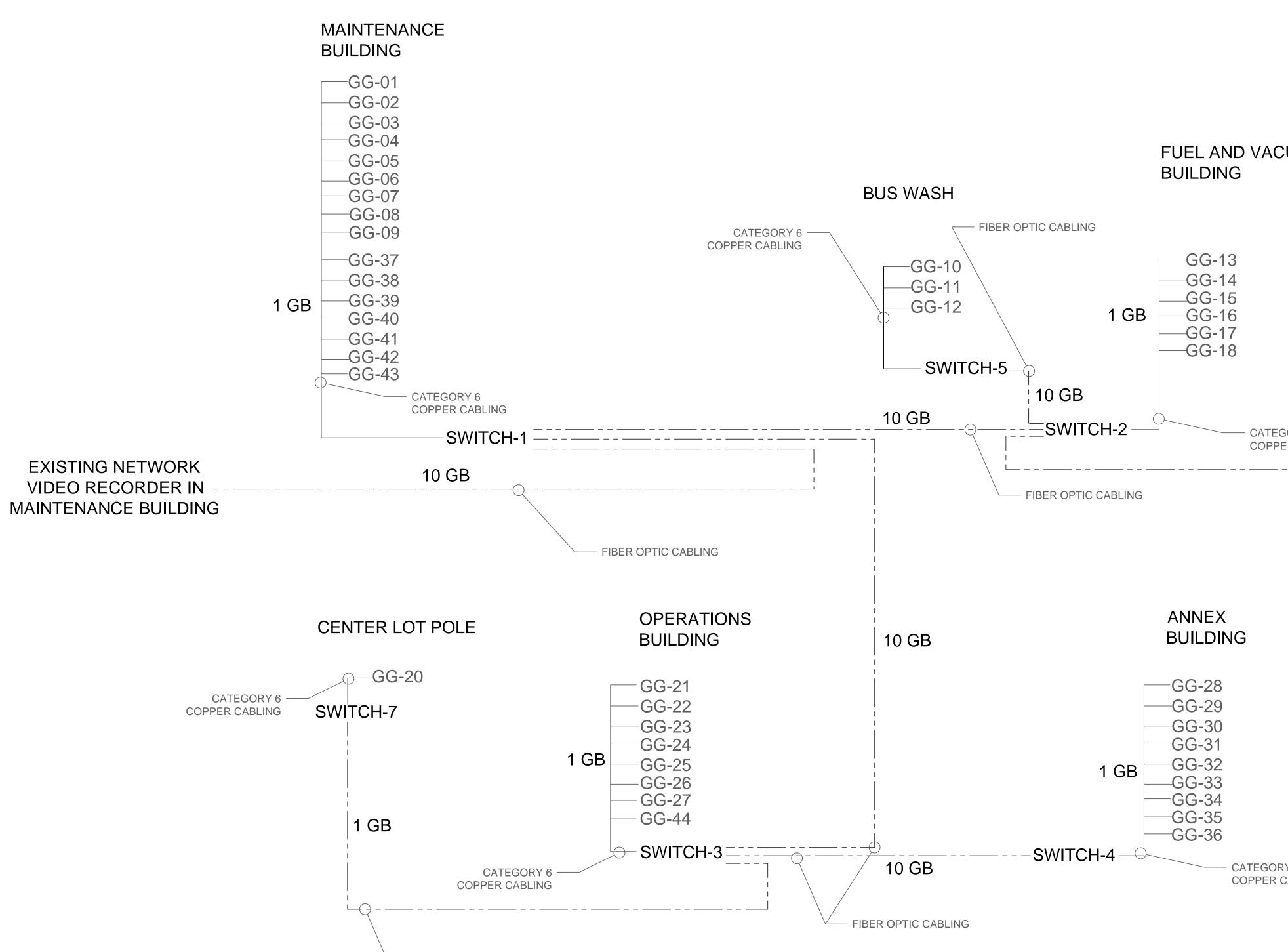
- 1.) FIBER TO COPPER MEDIA CONVERTER COMNET CNGE2+2SMSPOEHO 2.) COMNET FIBER SFP MODULE 1GB - MATCH TO FIBER TYPE 3.) FOR LOCATIONS WITH EXISTING 110VAC POWER AT ENCLOSURE
- LOCATIONS USE DIN RAIL MOUNTED 48,24, AND/OR12VDC POWER SUPPLY(S) AS NEEDED -- FOR LOCATIONS WITHOUT 110VAC INSTALL NEW 48VDC 10A POWER SUPPLY AT HEAD END AND USE EXISTING WIRE TO ENCLOSURE LOCATIONS, INSTALL DIN RAIL MOUNTED 48 TO 24VDC STEP DOWN AND/OR 24 TO 12 VDC STEP DOWN POWER SUPPLY
- 6.) 80MM FAN (VOLTAGE BASED ON AVAILABLE POWER)
- 7.) DIN RAIL MOUNTED TERMINAL STRIP
- 9.) NEMA 4 ENCLOSURE WITH POWDER COATED ANSI 61 GRAY FINISH, SIZED TO FIT ALL EQUIPMENT AND PROVIDE SPACE FOR FUTURE EXPANSION AND ROOM TO ALLOW MAINTENANCE AND REPAIR. 10.) ENCLOSURE MAY HAVE ADDITIONAL EQUIPMENT FOR LIGHTING

- 1.) WHERE EXISTING ENCLOSURES ARE PRESENT THERE IS EITHER A 110VAC OUTLET INSIDE ENCLOSURE OR THERE IS HEAVY GAUGE WIRE WITH DC POWER SUPPLIED FROM HEAD END. INSTALLATION CONTRACTOR TO DETERMINE PROPER POWER SUPPLY DEVICES AND TRANSFORMERS TO FIT EXISTING FIELD
- 2.) FIBER CABLE BEND RADIUS PER MANUFACTURERS
- 3.) FIBER CABLE TO HAVE 2 SERVICE LOOPS AS SHOWN 4.) FIBER SFP MODULE TO BE COMPATIBLE WITH SFP
- MODULES AT INCOMING SWITCH
- 5.) DIN RAIL MOUNTED DEVICE TO BE PLUMB AND LEVEL
- 6.) POWER SUPPLIES AND/OR CONVERTERS TO BE INDUSTRIAL GRADE TEMPERATURE AND MOISTURE RESISTANT 7.) INCOMING 110VAC HIGH VOLTAGE LINES TO BE
- CLEARLY MACHINE LABELED WITH PERMANENT HEAT
- 8.) POWER SUPPLIES AND CONVERTERS SUPPLIED ONLY NEED TO MATCH NEW EQUIPMENT INSTALLED, ALL VOLTAGES MAY NOT BE REQUIRED 9.) 48VDC TO 48VDC POWER CONVERTER INTENDED TO COMPENSATE FOR VOLTAGE DROP DUE TO WIRE LENGTH WHERE 48VDC POWER COMES

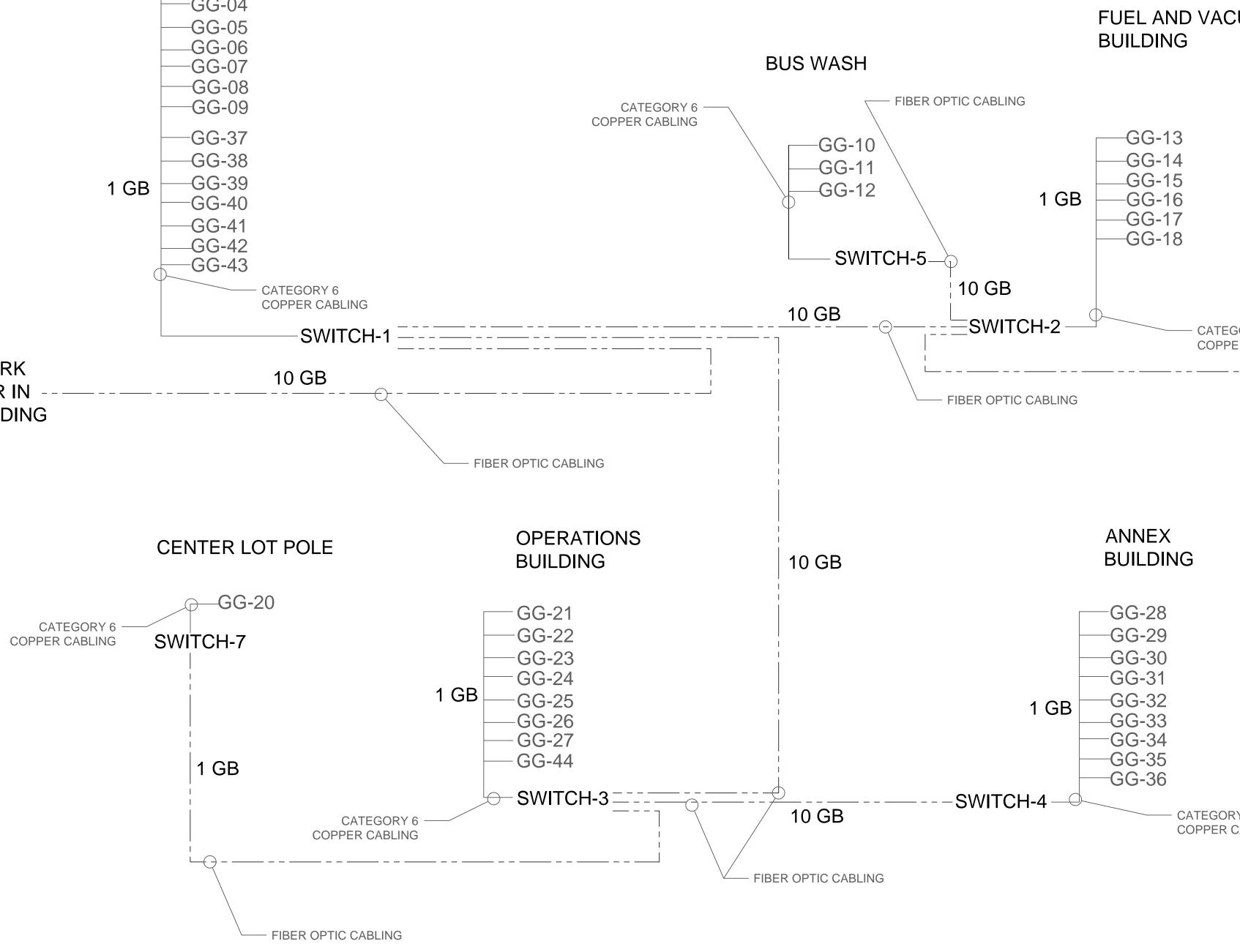












BASIC SYSTEM LINE DIAGRAM

		PROJECT
		Orange County Transportation Authority GARDEN GROVE BUS MAINTENANCE FACILITY
		Image: Consultant Image: Consultant ALL DETAIL DRAWINGS AND DESIGN ELEMENTS ON THESE SHEETS ARE A BASIS OF DESIGN ONLY AND ARE A GENERAL REPRESENTATION
CUUM	SOUTH BUS DRIVEWAY ENTRY POLE GG-19 SWITCH-6	OF THE QUALITY AND TYPE OF EQUIPMENT, INSTALLATION, AND WORKMANSHIP OF THE FINAL PRODUCT REQUIRED FOR THIS PROJECT. INSTALLATION CONTRACTOR IS ULTIMATELY RESPONSIBLE TO PROVIDE EQUIPMENT THAT IS MATCHING AND FUNCTIONAL IN DESIGN, AND A FINAL PRODUCT THAT MEETS THE OVERALL SPECIFICATION AND DESIGN INTENT
EGORY 6 PER CABLING	1 GB	Issued Drawing Log 11/14/16 60% DESIGN DRAWINGS 12/04/16 60% DD AFTER JOBWALK 12/30/16 85% CD DRAWINGS 12/01/17 100% CD DRAWINGS 11/11/17 100% CD DRAWINGS 11/14/16 100% CD DRAWINGS
		No. Date Item
DRY 6 R CABLING		DRAWING TITLE
		GARDEN GROVE LINE DIAGRAM DRAWN BY RED5 CHECKED RED5 APPROVED RED5 CALE N.T.S. APPROVED RED5
		SC.601