6. THE SECURITY SYSTEMS CONTRACTOR SHALL DEVELOP A COMPLETE SET OF CONSTRUCTION DOCUMENTS,

7. PROVIDE ALL REQUIRED MATERIALS INCLUDING BUT NOT LIMITED TO EQUIPMENT, HARDWARE, DEVICES,

RACKS, TERMINAL CABINETS, CONTROLLERS, POWER SUPPLIES, WIRING AND CABLING, WIRE/CABLING

MANAGEMENTS SYSTEMS AND SUPPORTS, CONDUITS AND RACEWAYS, ETC. FOR A COMPLETE AND OPERABLE

8. WIRELESS DEVICES AND/OR COMPONENTS ARE NOT ALLOWED AS PART OF THE BASE BID UNLESS OTHERWISE

9. ALL SYSTEM SOFTWARE PLATFORMS AND QUANTITY OF LICENSES SHALL BE PROVIDED FOR ALL FURNISHED

SOFTWARE PLATFORMS INSTALLED SHALL BE THE FULL AND COMPLETE VERSION OF THE MOST RECENT SOFTWARE PACKAGES AVAILABLE AT THE TIME OF THE INSTALLATION. THE OWNER'S REPRESENTATIVE SHALL

BE PROVIDED WITH THE FORMAL COPIES OF ALL LICENSES AND FURNISHED WITH ALL USERNAMES AND

10. THE SECURITY SYSTEMS CONTRACTOR SHALL BE A LICENSED (C-7) LOW VOLTAGE SYSTEMS CONTRACTOR

AND A LICENSED (C-10) ELECTRICAL CONTRACTOR AND SHALL HAVE BEEN IN BUSINESS FURNISHING AND

11. THE SECURITY SYSTEMS CONTRACTOR SHALL BE A FACTORY AUTHORIZED DISTRIBUTOR, INSTALLER AND

WARRANTY PROVIDER FOR THE MANUFACTURER OF THE EQUIPMENT TO BE INSTALLED. PROVIDE LETTER FROM THE SYSTEMS MANUFACTURERS CERTIFYING THAT THE CONTRACTOR IS AN AUTHORIZED DISTRIBUTOR

12. THE SECURITY SYSTEMS CONTRACTOR SHALL MAINTAIN A FULLY EQUIPPED SERVICE DEPARTMENT CAPABLE OF FURNISHING ADEQUATE REPAIR SERVICES FOR THE WARRANTED EQUIPMENT WITH RESPONSE TIMES TO

14. THE CONSTRUCTION DOCUMENTS, PLANS AND SPECIFICATIONS AND ALL WORK AND MATERIALS SHALL BE IN

FULL ACCORDANCE WITH ALL LEGAL AND INDUSTRY REQUIREMENTS AND STANDARDS INCLUDING WITHOUT

B. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 3 (CALIFORNIA ELECTRICAL CODE), 2022 EDITION.

INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND

E. THE ELECTRICAL SYSTEMS FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA CIVIL

F. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.

C. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN

SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND

OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AND ASSUMES THE RISK OF THE CONSEQUENCES OF

D. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION AND

NOTIFY THE ELECTRICAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

16. SUBMIT COMPLETE CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS AND CATALOG DATA SHEETS FOR

THE SECURITY SYSTEMS TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. SUBMITTALS SHALL AT THE

A. COPIES OF CONTRACTORS CURRENT C-7 LOW VOLTAGE CONTRACTOR LICENSE AND C-10 ELECTRICAL

C. COPIES OF CERTIFICATES OF TRAINING FOR THE INSTALLING PERSONNEL AND PROOF THAT THEY ARE

B. COPY OF THE EQUIPMENT MANUFACTURERS AUTHORIZATION LETTERS CERTIFYING THE CONTRACTOR AS

G. THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS,

B. SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY

INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE

C. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2022 EDITION.

STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.

APPROXIMATE, FIELD VERIFY DIMENSIONS PRIOR TO BID.

15. IN INTERPRETING THESE PLANS, THE FOLLOWING GENERAL RULES APPLY:

A. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.

FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.

CODE (THE "RIGHT TO REPAIR ACT").

MINIMUM INCLUDE THE FOLLOWING:

CONTRACTORS LICENSE.

AN AUTHORIZED DISTRIBUTOR AND INSTALLER.

D. OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK,

A. CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 (CALIFORNIA BUILDING CODE), 2022 EDITION.

13. ALL WORK AND EQUIPMENT SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF 1-YEAR AFTER FINAL

AND INSTALLER OF THE EQUIPMENT. PROVIDE CERTIFICATES OF TRAINING FOR PERSONNEL PERFORMING THE

PASSWORDS FOR THE SYSTEM AS PART OF THE CLOSE-OUT DOCUMENTATION.

INSTALLING SIMILAR SYSTEMS IN SCOPE AND SIZE FOR A MINIMUM OF FIVE (5) YEARS.

EQUIPMENT AS PART OF THE SECURITY SYSTEMS CONTRACTORS COMPLETE AND OPERABLE SYSTEMS. ALL

NOTED. APPROVAL OF WIRELESS SYSTEMS SHALL BE AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE.

PLANS AND SPECIFICATIONS AND SUBMIT TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE THE

REPRESENTATIVE THE LEVEL OF INTEGRATION WITH OTHER SYSTEMS.

START OF CONSTRUCTION.

WORK.

THE PROJECT SITE WITHIN 4-HOURS.

ACCEPTANCE OF WORK.

LIMITATION THE FOLLOWING:

LOCATED AT THE CONTRACTOR'S LOCAL FACILITY. D. LIST OF PROJECTS SIMILAR IN SCOPE AND SIZE THAT HAVE BEEN COMPLETED IN THE LAST FIVE (5) YEARS E. MANUFACTURERS AND CONTRACTORS' WARRANTIES. F. PLANS FOR THE SITE AND BUILDING AT THE SAME SCALE AS THE CONTRACT DRAWINGS. PLANS SHALL SHOW WALLS, DOORS, WINDOWS, ROOM NUMBERS, ROOM NAMES. THE PLANS SHALL INCLUDE THE TYPE

AND LOCATION OF ALL EQUIPMENT, HARDWARE, DEVICES, RACKS, TERMINAL CABINETS, CONTROLLERS, WIRING AND CABLING, CONDUIT AND RACEWAYS, ETC. G. PLANS SHALL INCLUDE LEGENDS, DEVICE AND BACKBOX MOUNTING REQUIREMENTS AND HEIGHTS. THE

MOUNTING HEIGHTS SHALL BE SYMMETRICAL FOR ALL TYPES OF DEVICES. H. PLANS SHALL INCLUDE RISER DIAGRAMS, SINGLE LINE DIAGRAMS, WIRING DIAGRAMS CALCULATIONS FOR THE COMPLETE SYSTEM. I. PLANS SHALL SHOW INTERFACE WITH OTHER SYSTEMS THAT ARE REQUIRED TO BE INTEGRATED.

J. MANUFACTURERS CATALOG DATA AND CUT SHEETS FOR ALL EQUIPMENT. K. TESTING AND COMMISSIONING PROCEDURES COORDINATED WITH THE OWNER'S REQUIREMENTS AND MANUFACTURE'S STANDARDS INCLUDING ANSI/TIS-568-C.0, C.1, C.2 AND C.3.

17. SUBMITTALS WILL BE REVIEWED BY THE ELECTRICAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.

18. TRAINING - PROVIDE OWNER TRAINING FOR UP TO (2) 4 HOUR TRAINING SESSIONS. TRAINING SHALL BE SCHEDULED WITH THE OWNER'S REPRESENTATIVE AND SHALL BE AT TIMES CONVENIENT TO THE OWNER.

19. IN THE EVENT CONFLICTS BETWEEN THE CONSTRUCTION BID DOCUMENTS, CRITERIA AND SPECIFICATIONS THE MOST STRINGENT OF REQUIREMENTS SHALL APPLY.

20. IN NO EVENT WILL ANY SITE VISITS BY THE ELECTRICAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

21. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF THE ELECTRICAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES, AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. ELECTRICAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

22. THE DRAWINGS INDICATE, IN A DIAGRAMMATIC MANNER, THE DESIRED LOCATIONS AND ARRANGEMENT OF THE COMPONENTS OF SECURITY SYSTEMS WORK. DETERMINE EXACT SECURITY SYSTEMS EQUIPMENT, CONDUIT AND WIRING ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS AND UNDEFINED CONSTRUCTION DETAILS AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE REQUIREMENTS. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF CONDITIONS ENCOUNTERED.

23. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO DEVELOPED CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.

24. PROVIDE ALL EQUIPMENT WITH ENCLOSURES LISTED OR LABELED FOR USE AND LOCATION WHERE SUCH

EQUIPMENT IS INSTALLED.

25. PROVIDE UL LISTED FIRE STOP FOR ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, AND CEILINGS

26. GROUNDING SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, BOTH OF THE STATE OF CALIFORNIA AND LOCAL AUTHORITIES HAVING JURISDICTION.

27. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED BELOW ROOF AND WITHIN BUILDING.

28. ALL SECURITY SYSTEMS EQUIPMENT SHALL BE NEW AND BE U.L. OR ETL LISTED AND LABELED.

IDKP → INTRUSION DETECTION KEY PAD.

PB→ INTRUSION DETECTION PANIC BUTTON.

ID- INTRUSION DETECTION SYSTEM MOTION SENSOR, WALL MOUNTED.

ID INTRUSION DETECTION SYSTEM MOTION SENSOR, CEILING MOUNTED.

BG- INTRUSION DETECTION SYSTEM BREAK GLASS SENSOR, WALL MOUNTED.

EQUIPMENT IS TO PROVIDED IN THE FUTURE BY OTHERS.

BACKBOX. PROVIDE BLANK COVER PLATE ON ALL BACKBOXES.

DC INTRUSION DETECTION SYSTEM DOOR CONTACT - (COORDINATE DOOR CONTACT TYPE PER DOOR).

—ID— INTRUSTION DETECTION SYSTEM CONDUIT WITH CONDUCTORS PER MANUFACTURER'S REQUIREMENTS. REFERENCE RISER DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CLOSED CIRCUIT TV (CCTV) SYSTEM SYMBOLS

INTRUSION DETECTION SYSTEM SYMBOLS

NOTE: PROVIDE CONDUIT ONLY AND OUTLET BOXES FOR ALL CCTV SYSTEM DEVICES DEPICTED BELOW. ACTUAL

SURFACE MOUNTED (CEILING OR WALL), CLOSED CIRCUIT TELEVISION DOME TYPE CAMERA. PROVIDE WITH FLUSH 4S BACKBOX AND 3/4" CONDUIT HOMERUN TO NEAREST TEL. BACKBOARD. WALL MOUNTED LOCATIONS SHALL BE @+8'-0", OR AS DIRECTED BY ARCHITECT. "WP" INDICATES OUTDOOR MOUNTED CAMERA. PROVIDE WITH OUTDOOR RATED

CLOSED CIRCUIT TELEVISION WORKSTATION LOCATION. PROVIDE FLUSH 4S JUNCTION BOX @+18" WITH BLANK COVER PLATE & 3/4" CONDUIT HOMERUN CONTROL NEAREST TEL. BACKBOARD. WORKSTATION LOCATION TO BE VERIFIED WITH

CLOSED CIRCUIT TELEVISION REMOTE MONITOR LOCATION. PROVIDE FLUSH 4S JUNCTION BOX @+18" WITH BLANK COVER PLATE & 3/4" CONDUIT HOMERUN TO NEAREST TEL. BACKBOARD. REMOTE MONITOR LOCATION TO BE VERIFIED

ACCESS CONTROL SYSTEM SYMBOLS

ACKP → ACCESS CONTROL SYSTEM KEY PAD

CR→ ACCESS CONTROL SYSTEM CARD READER

PR ACCESS CONTROL SYSTEM PROXIMITY READER - (KEY TAG OR CARD TYPE PROXY CARD)

RE→ ACCESS CONTROL SYSTEM REQUEST EXIT

EL ACCESS CONTROL SYSTEM ELECTRIFIED LOCK = (LOCK HARDWARE, SYSTEMS AND CONNECTIONS TO BE COORDINATED PER DOOR TYPE WITH ARCHITECT AND CONTRACTOR.)

MH ACCESS CONTROL SYSTEM MAGNETIC DOOR HOLD - (HOLD TYPE, SYSTEMS AND CONNECTIONS TO BE COORDINATED PER DOOR TYPE WITH ARCHITECT AND CONTRACTOR.)

ACCESS CONTROL SYSTEM DOOR CONTACT - (COORDINATE TYPE PER DOOR)

ACCESS CONTROL SYSTEM AUDIBLE SOUNDER, WALL MOUNTED

ACCESS CONTROL SYSTEM AUDIBLE SOUNDER, CEILING MOUNTED

"CLICK TO ENTER" SYSTEM DEVICE. PROVIDE BACKBOX & 3/4"C. HOMERUN TO IT ROOM.

——AC—— ACCESS CONTROL SYSTEM CONDUIT WITCH CONDUCTORS PER MANUFACTURER'S REQUIREMENTS. REFERENCE RISER DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. MINIMUM 3/4"C.

GENERAL SYMBOLS LIST

SEC-0.01 SYMBOLS LIST, GENERAL NOTES & SCHEDULES SEC-0.02 ACCESS CONTROL NOTES, RISER DIAGRAM & DETAILS SEC-0.03 INTRUSION DETECTION NOTES, RISER DIAGRAM & DETAILS SEC-0.04 CCTV SYSTEM NOTES, RISER DIAGRAM & DETAILS

SHEET INDEX

SEC-1.01 SECURITY SITE PLAN

SEC-3.01 BUILDING SECURITY PLANS SEC-3.03 POOL BUILDING SECURITY PLAN

TE-0.01 SYMBOLS LIST, GENERAL NOTES & SCHEDULES TE-0.02 TELECOM. RISER DIAGRAM & DETAILS

TE-1.01 SITE TELECOM PLAN

TE-3.01 BUILDING TELECOM. PLANS TE-3.03 POOL BUILDING TELECOM. PLAN

REFERENCE ELECTRICAL SHEETS FOR ADDITIONAL GENERAL ELECTRICAL SYMBOLS. ALL APPLICABLE PORTIONS SHALL APPLY TO THIS SCOPE OF WORK AS THOUGH WRITTEN HEREIN.

JUNCTION BOX, FLUSH WALL MOUNTED, +18".

JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING.

INDICATES CONNECTION TO EQUIPMENT AS REQUIRED, TYPICAL.

CONTROL PANEL OR TERMINAL CABINET AS INDICATED ON PLANS.

INDICATES CONDUIT DROP WITHIN BUILDING WALL

DETAIL CALLOUT, "C" INDICATES DETAIL, "E-2" INDICATES DRAWING WHERE DETAIL OCCURS.

PLAN NOTE CALLOUT. REFER TO CORRESPONDING NOTE ON DRAWING WHERE CALLOUT OCCURS.

CCTV CLOSED CIRCUIT TELEVISION INDICATES CONDUIT RISER WITHIN BUILDING WALL. CFC CALIFORNIA FIRE CODE CKT CIRCUIT

> CO CONDUIT ONLY W/ PULL STRING CU COPPER

C CONDUIT

(D) DEMOLISH OR REMOVE DIA DIAMETER DISC DISCONNECT

EMT ELECTRIC METALLIC TUBING (E) EXISTING TO REMAIN

EC ELECTRICAL CONTRACTOR EF EXHAUST FAN

AFC ABOVE FINISHED COUNTER

BDF BUILDING DISTRIBUTION FRAME

CBC CALIFORNIA BUILDING CODE

AFF ABOVE FINISH FLOOR

AFG ABOVE FINISH GRADE

CB CIRCUIT BREAKER

EM EMERGENCY EMS ENERGY MANAGEMENT SYSTEM

(ER) EXISTING TO BE REMOVED

FLA FULL LOAD AMPS GROUND GFI GROUND FAULT INTERRUPTER GRC/RGC GALVANIZED RIGID CONDUIT

ABBREVIATIONS

IDF INTERMEDIATE DISTRIBUTION FRAME IMC INTERMEDIATE METALLIC TUBING MCB MAIN CIRCUIT BREAKER

MDF MAIN DISTRIBUTION FRAME MFGR/MFR MANUFACTURER MIN MINIMUM

MLO MAIN LUGS ONLY MOCP MAXIMUM OVER CURRENT PROTECTION

NEC NATIONAL ELECTRIC CODE NOT IN CONTRACT

NIGHT LIGHT OC ON CENTER

PTZ PAN-TILT-ZOOM OFCI OWNER FURNISHED, CONTRACTOR INSTALLED UON UNLESS OTHERWISE NOTED

VOLTS VERIFY LOCATION

WEATHERPROOF XFMR TRANSFORMER

IDCP INTRUSION DETECTION CONTROL PANEL IDTC INTRUSION DETECTION TERMINAL CABINET

ACCESS CONTROL CONTROL PANEL ACTC ACCESS CONTROL TERMINAL CABINET

CTVCP CLOSED CIRCUIT TELEVISION CONTROL PANEL CTVTC CLOSED CIRCUIT TELEVISION TERMINAL CABINET

CONDUIT FILL SCHEDULE MAVIMUM NUMBER OF CONDUCTORS /CARLES

		(BASED ON 40% MAX FILL RATIO)							
	CONDUIT (EMT, TRADE SIZE)	UTP CAT7 (0.27" O.D.)	FIBER OPTIC (0.27" O.D.)	4#22 WEST PENN 240 (0.142" O.D.)	RG-6/U WEST PENN 841 (0.254" O.D.)				
	3/4"	3	3	11	3				
	1"	6	6	19	6				
	1 1/4"	10	10	30	9				
	1 1 /2"	13	13	44	13				
ı	_ 22								

DIVISION OF RESPONSIBILITY									
	J-BOXES, CONDUIT, ROUGH-IN, 120V TO SUPPLY POWER	DEVICES AND CABLING	HEAD END UNIT	SYSTEMS INTEGRATION	DEVICE PLACEMENT LOCATIONS AND AIMING	TESTING AND COMMISSIONING	DOOR HARDWARE SPEC TO ARCHITECT/OWNER	TELEPHONE & DATA SYSTEM PROCUREMENT, INSTALLATION, AND PROGRAMMING	CABLE TRAYS, PLYWOOD BACKBOARDS, GROUND BUS BAR
ELECTRICAL CONTRACTOR	Х	CABLING ONLY							X
FIRE ALARM CONTRACTOR		X	X			X			
GENERAL CONTRACTOR	Х	CABLING ONLY							Х
OWNER					X				
OWNER'S I.T.								X	
SECURITY CONTRACTOR		Х	Х			Х			
SECURITY SYSTEMS INTEGRATOR		DEVICES ONLY	Х	Х			Х		

LOW VOLTAGE SYSTEMS CABLING MATRIX							
APPLICATION	ТҮРЕ	CABLE COLOR	SYSTEM				
OICE / DATA	CAT 7	RED/BLUE	VOIP / NETWORK DATA SYSTEMS				
OICE	CAT 7	RED	VOIP				
ATA	CAT 7	BLUE	NETWORK DATA SYSTEMS				
ELEVISION	CAT 7	GRAY	VIDEO				
ELEVISION	RG11 / RG6	BLACK	VIDEO				
AMERAS	NA	NA	FUTURE				
AMERAS	NA	NA	FUTURE				
IBER BACKBONE MULTI-MODE	50μc/12S	ORANGE	VOICE / DATA SURVEILLANCE				
OPPER BACKBONE (25 PAIR COUNT)	CAT 7	BROWN	VOICE / DATA				
VIRELESS ACCESS	CAT 7	PURPLE	VIDEO				

DIRECTOR'S SIGNATURE ON TITLEBLOCK CONSTITUES SIGNATURES FOR ALL SHEETS IN THE PLAN SET.

WORKS - ENGINEERING

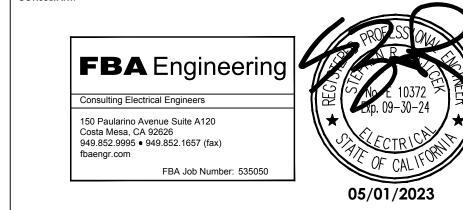
BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BASIS OF BEARINGS: BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF 162 ND STREET (FORMERLY MARKET STREET) BEING N 89° 55′ 30″ E SHOWN ON TRACT NO. 10901, M.B. 254/31-32

BENCHMARK: THE CITY OF GARDENA BENCHMARK NO. 5D-15 ELEV. = 43.508









VISI	O N S		CITY OF GARDENA
SCRIPTION	DATE	APPROVED	DEPARTMENT OF PUBLIC WORKS - ENGINEER
NDUM 2	08-16-2023		SYMBOLS LIST, GENERAL NOTES, & SCHEDULES
			STMBOLS LIST, GENERAL NOTES, & SCHEDULES
			COMMUNITY AQUATICS & SENIOR CEN
			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

ATICS & SENIOR CENTER SEC-0.01 INITAL DATE APPROVED BY DESIGNED BY SR 08/07/2023

1.1 GENERAL

1. SECURITY CONTRACTOR SHALL PROVIDE, PROGRAM, AND INSTALL A FULLY FUNCTIONAL, COMPLETE AND OPERATIONAL ACCESS CONTROL SYSTEM. PROVIDE ALL ENGINEERING, DESIGN, TESTING, EQUIPMENT, MATERIALS, COMPONENTS AND INSTALLATION NECESSARY AS PART OF THIS WORK.

2. ACCESS CONTROL SYSTEM, AT A MINIMUM, SHALL INCLUDE A DIGITAL ALARM COMMUNICATOR, BUILT-IN TELEPHONE LINE MONITOR, MEMORY LOGGER (500 EVENT MINIMUM), REAL TIME CLOCK, CALENDAR, TEST TIMER, BATTERY CHARGING/VOLTAGE SUPERVISION CIRCUITRY, BATTERY LEAD SUPERVISION, DIAGNOSTICS, TIME/EVENT BASED SCHEDULING AND ALL MODULES AND COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM.

3. SYSTEM SHALL:

A. BE SCALABLE TO SUPPORT INDEPENDENT DEVICE ZONES (SINGLE DEVICE OR GROUP OF DEVICES GROUPED TOGETHER), EACH WITH INTERIOR AND PERIMETER PARTITIONING. QUANTITY OF ZONES AND DEVICES DEPENDENT ON PROJECT AND TO BE COORDINATED WITH OWNER.

B. PROVIDE IDENTIFICATION, ANNUNCIATION AND COMMUNICATION OF ALL DEVICES ON A POINT-BY-POINT BASIS, INCLUDING EACH ACCESS CONTROL BY USER NUMBER.

C. BE CAPABLE OF LOCALLY OR REMOTE PROGRAMMING.

D. BE PROVIDED WITH SECONDARY POWER BACK-UP

1) VIA BATTERIES. BATTERIES TO BE SIZED FOR MINIMUM 60-HOUR SUPERVISION AND 15-MINUTES OF ALARM. BATTERY CHARGER TO BE SIZED BASED ON BATTERY CAPACITIES. 2) VIA EMERGENCY GENERATOR OR BUILDING BATTERY INVERTER.

E. ALLOW REAL-TIME STATUS MONITORING/VIEWING OF DEVICES AND UNIT AND AREA EVENTS (AC FAIL, BATTERY FAIL, UNIT CONNECTED/LOST, AREA ARM/DISARM, INPUT TROUBLE, ETC.)

4. ALL FIELD DEVICES SHALL BE INDIVIDUALLY HOMERUN TO ACCP OR ACTC. DAISY CHAINING OF DEVICES IS NOT ACCEPTABLE UNLESS WRITTEN APPROVAL IS PROVIDED PRIOR TO SYSTEM SHOP DRAWINGS AND INSTALLATION OF ANY

1.2 ACCESS CONTROL SYSTEM BASIS OF DESIGN

1. THE INTENT AND PURPOSE OF THE ACCESS CONTROL SYSTEM IS TO PROVIDE ACCESS TO SECURED AREAS OF THE BUILDING AS INDICATED ON PLANS AND DEFINED BY THE OWNER, THROUGH THE ACCESS CONTROL SYSTEM. THE SYSTEM WILL ENABLE THE OWNER TO CONTROL ACCESS FOR DOORS AND/OR AREAS THROUGH THE PROGRAMMING OF THE RESTRICTED DATABASE ON SYSTEM SOFTWARE, AND TO PROVIDE THE CAPABILITY OF REMOTE ACCESS DATABASE MANAGEMENT. GRAPHICAL AND CONTROL INTEGRATION SOFTWARE SHALL BE PROVIDED FOR REMOTE ACCESS AND MANAGEMENT, INCLUDING REQUIRED SERVER COMPUTER AND DISPLAY.

2. THE ACCESS CONTROL SYSTEM SHALL INTEGRATE WITH THE INTRUSION DETECTION SYSTEM AND FUTURE CCTV SYSTEM. INTEGRATION WITH THE INTRUSION DETECTION SYSTEM SHALL PROVIDE A MOMENTARY CONTACT CLOSURE SIGNAL FOR THE PROGRAMMED DISARMING OF THE INTRUSION DETECTION ZONES AS MAY BE REQUIRED.

3. ACCESS TO SECURED AREAS SHALL BE PROVIDED THROUGH THE INSTALLATION OF DEDICATED AND SPECIFIC DEVICES, CONSISTING OF, BUT NOT LIMITED TO, PROXIMITY CARD READERS (WITH PROXIMITY CARDS), MAGNETIC DOOR CONTACTS, ELECTRIFIED HINGES, MORTISED LOCKS, ELECTRIFIED DOOR STRIKES, PANIC BARS, POWER SUPPLIES, REQUEST TO EXIT DEVICES, ETC. ALL DOOR HARDWARE REQUIREMENTS TO BE PART OF AND COORDINATED WITH PROJECT DOOR SCHEDULES AND DOOR INSTALLING CONTRACTOR.

4. ACCESS TO INDIVIDUAL UNITS SHALL BE CENTRALLY MANAGED THROUGH WIRELESS SMART CONTROL LOCKSETS AND CEILING MOUNTED GATEWAYS, THROUGHOUT PROPERTY BUILDINGS.

5. THE INTENT OF THE PLAN DRAWINGS IS TO GUIDE THE SECURITY CONTRACTOR IN THE BASIC INTENT OF THE SYSTEM DESIGN AND SHALL NOT BE CONSIDERED A FINAL OR COMPLETE SET OF PLANS. THE SECURITY CONTRACTOR SHALL INCLUDE AS PART OF HIS BID, AND SUBSEQUENT INSTALLATION, ALL REQUIRED MATERIALS AND LABOR, INCLUDING BUT NOT LIMITED TO ALL DEVICES, CABLING, CONNECTIONS, PATHWAYS, FIRESTOPPING, HARDWARE, SOFTWARE, UPS/BATTERY BACKUP, INTERFACES, WARRANTIES, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.

6. THE FOLLOWING SHALL BE UTILIZED AS AN ACCESS CONTROL SYSTEM EQUIPMENT BASIS OF DESIGN. THE LIST DOES NOT CONSTITUTE COMPLETE PARTS OR MATERIALS, BUT A GUIDE OF EQUIPMENT FROM OWNER'S ACCESS CONTROL STANDARDS OF ACCEPTABLE MANUFACTURER FOR COMPONENTS. CONTRACTOR SHALL AUGMENT AND PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE FOLLOWING LIST OF ITEMS ARE IDENTIFIED FROM RS2 TECHNOLOGIES, AND ALLEGION, UNLESS OTHERWISE NOTED:

A. RS2 TECHNOLOGIES SYSTEM CONTROLLER WITH ENTERPRISE-WIDE "ACCESS IT!" SOFTWARE AND WEB LICENSE "ACCESS IT!" UNIVERSAL BROWSER INTERFACE

PROXIMITY CARD - HID PROX 13.56mHz CARD OR 125kHz CARD (CONFIRM FREQUENCY WITH OWNER'S IT) PROXIMITY READER - HID MULTICLASS SE READER (13.56mHz AND 125kHz). HID RP10, RP15, RP40. PROVIDE WITH OPTIONAL IP65GSKT GASKET FOR EXTERIOR DEVICE LOCATIONS. ACCESS KEYPAD - HID RPK40

ALTRONIX AL600 SERIES POWER SUPPLIES APC SMART UPS FOR SYSTEM BACK UP (4-HOURS MINIMUM)

VON DUPRIN PANIC HARDWARE WITH ELECTRIFIED TRIM - SERIES #99 OR #33 MAGNETIC DOOR CONTACTS - SENTROL 1078CT

T-REX REQUEST TO EXIT MOTION DETECTORS - BOSCH DS160

ACCESS CONTROL COMPOSITE CABLE: 1) ONE (1) 14-2C - LOCK POWER

2) ONE (1) 18-2C AND ONE (1) 18-4C - CARD READER 3) ONE (1) 18-4C - DOOR SWITCH

4) ONE (1) 18-4C - REX/PIR

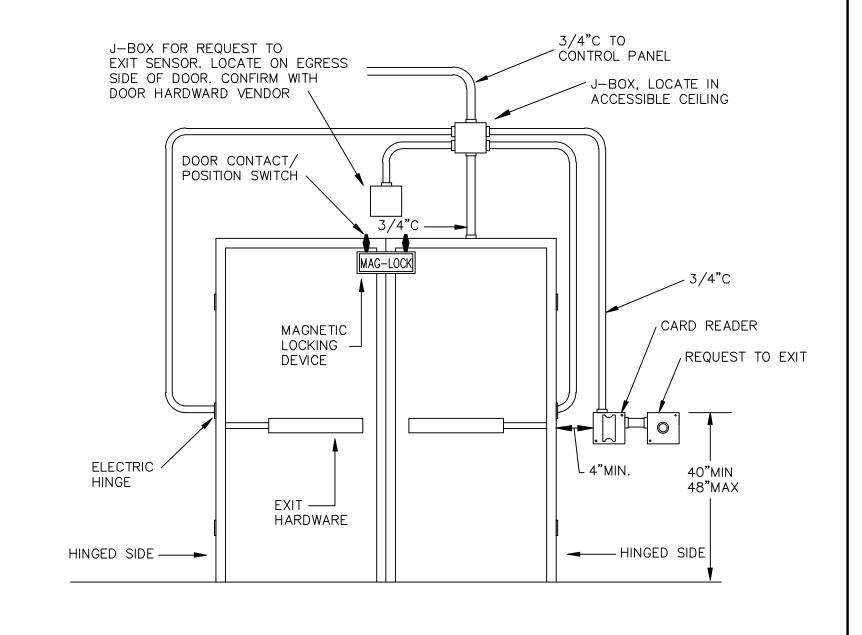
ADDITIONAL ACCESS CONTROL CABLE - 18-2C AND 18-4C SHIELDED CMP CALE AS REQUIRED. ALLEGION DOOR SECURITY SYSTEM:

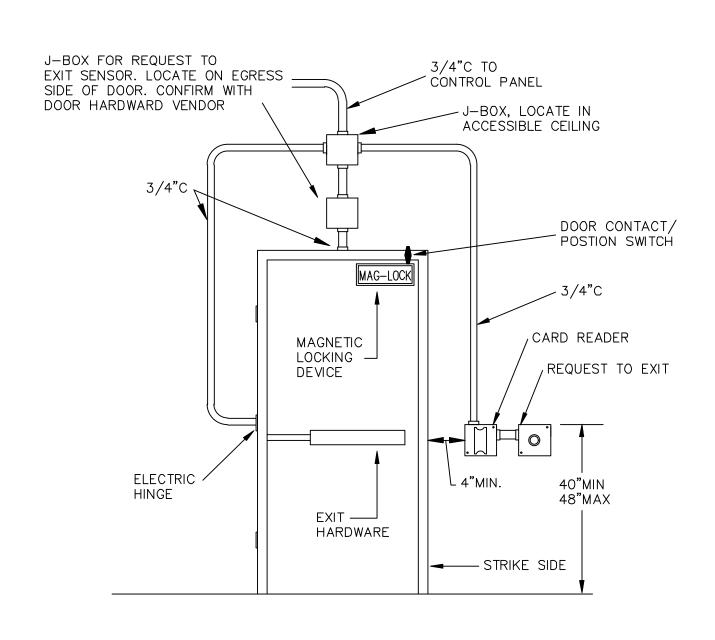
1) KASTLE SYSTEMS V6 PANEL & MANAGEMENT 2) NETWORK POE SWITCHES: 12 PORT

CISCO CATALYST 3560CX (WS-C3560CX-12PD-S), 24 PORT CISCO CATALYST 3650 (WS-C3650-24PD-S), 48 PORT CISCO

CATALYST 3650 (WS-C3560CX-12PD-S) 3) WIRELESS GATEWAY WITH CAT6 HOMERUN TO IDF/POE SWITCH

4) NDE SERIES WIRELESS LOCKS 5) SCHLAGE CONTROL SMART LOCKS





DOUBLE DOOR WITH READER | SCALE: NONE

SINGLE DOOR WITH READER | SCALE: NONE

KEY NOTES

1 ACCESS CONTROL SYSTEM CONTROL PANEL COMPLETE WITH KEYED LOCKABLE ENCLOSURE, DIGITAL ALARM COMMUNICATOR, 120 VOLT CONNECTION. POWER SUPPLY AND TRANSFORMER, SECONDARY BATTERIES (OR CONNECTION TO SUPPLEMENTAL EMERGENCY POWER) AND CHARGER, OWNERS MANUAL, WARRANTY CARD, AND ALL MODULES AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.

(2) TELEPHONE SYSTEM BACKUP INTERFACE. PROVIDE 1" CONDUIT WITH TELEPHONE CABLE FROM CONTROL PANEL DIGITAL ALARM COMMUNICATOR TO TELEPHONE SYSTEM/BACKBOARD LOCATION. COORDINATE PHONE LINE REQUIREMENTS WITH

(3) PRIMARY ETHERNET SYSTEM INTERFACE CONNECTION WITH REQUIRED MODULES AND CABLING HOMERUN TO NEAREST BUILDING DATA CABINET/ENCLOSURE.

COORDINATE WITH OWNER FOR ALL REQUIRED CABLING STANDARDS IN PLACE. 4 ACCESS CONTROL SYSTEM TOUCH SCREEN TYPE KEYPAD. PROVIDE MANUFACTURER'S RECOMMENDED BACKBOX AND 3/4" CONDUIT HOMERUN WITH CABLE PER MANUFACTURERS RECOMMENDATIONS TO ACCESS CONTROL SYSTEM

5 REQUEST TO EXIT BUTTON. PUSH BUTTON SHALL SIGNAL THROUGH ACCESS CONTROL PANEL NORMALLY OCCUPIED SPACE FOR MANUAL OPERATION OF DOOR ACCESS. SURFACE MOUNT OVER FLUSH BACKBOX LOCATED WITHIN 6" OF DOOR EDGE ON LATCH SIDE ADJACENT TO WALL SWITCHES UNLESS OTHERWISE NOTED. SEE DOOR DETAILS FOR ADDITIONAL INFORMATION. PROVIDE J-B0X ABOVE DOOR JAMB/HEADER AND 3/4" CONDUIT WTIH HOMERUN CABLE PER MANUFACTURER'S RECOMMENDATION TO ACCESS CONTROL PANEL.

6) ACCESS CONTROL TERMINAL CABINET COMPLETE WITH LOCKABLE ENCLOSURE (KEYED TO MATCH CONTROL PANEL), 120 VOLT POWER SUPPLY AND TRANSFORMER, SECONDARY BATTERIES (OR CONNECTION TO SUPPLEMENTAL EMERGENCY POWER) AND ALL MODULES TERMINAL BLOCKS AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM.

7) ACCESS CONTROL SYSTEM CARD READER. CARD READER SHALL BE UNIVERSAL TYPE WITH HID OR TOKEN CARDS PER OWNER'S SELECTION. SURFACE MOUNT OVER FLUSH BACKBOX LOCATED WITHIN 6" OF DOOR EDGE ON LATCH SIDE AD JACENT TO WALL SWITCHES UNLESS OTHERWISE NOTED. SEE DOOR DETAILS FOR ADDITIONAL INFORMATION. PROVIDE J-BOX ABOVE DOOR JAMB / HEADER AND 3/4" CONDUIT WITH HOMERUN CABLE PER MANUFACTURER'S RECOMMENDATION TO ACCESS CONTROL

8 ACCESS CONTROL SYSTEM PROXIMITY READER. READER SHALL BE UNIVERSAL TYPE WITH HID OR TOKEN CARDS PER OWNER 'S SELECTION. SURFACE MOUNT OVER FLUSH BACKBOX LOCATED WITHIN 6" OF DOOR EDGE ON LATCH SIDE ADJACENT TO WALL SWITCHES UNLESS OTHERWISE NOTED. SEE DOOR DETAILS FOR ADDITIONAL INFORMATION. PROVIDE J-B0X ABOVE DOOR JAMB/HEADER AND 3/4" CONDUIT WITH HOMERUN CABLE PER MANUFACTURER'S RECOMMENDATION TO ACCESS CONTROL

9) ELECTRIFIED DOOR HARDWARE. PROVIDE CONDUIT AND CABLING/CONDUCTORS TO DOOR HARDWARE INCLUDING CONNECTIONS TO ALL ELECTRIFIED EQUIPMENT AS IDENTIFIED ON PLAN AND COORDINATED WITH ARCHITECTURAL DOOR SCHEDULES. COORDINATE ROUTING OF CONDUIT AND CABLIN/CONDUCTORS FOR CONNECTIONS WITH DOOR INSTALLER CONTRACTOR PRIOR TO INSTALLATION. SEE DOOR DETAILS FOR ADDITIONAL INFORMATION. PROVIDE J-B0X ABOVE DOOR JAMB / HEADER AND 3/4" CONDUIT WITH HOMERUN CABLE PER MANUFACTURER'S RECOMMENDATION TO (10) ACCESS CONTROL SYSTEM MAGNETIC DOOR HOLD. PROVIDE CONDUIT AND CONDUCTORS TO DOOR HOLD DEVICES, INCLUDING CONNECTIONS TO EQUIPMENT AS IDENTIFIED ON PLAN AND COORDINATED WITH ARCHITECTURAL DOOR SCHEDULES. COORDINATE ROUTING OF CONDUIT AND CONDUCTORS FOR CONNECTIONS WITH DOOR INSTALLER CONTRACTOR PRIOR TO INSTALLATION. SEE DOOR DETAILS FOR ADDITIONAL INFORMATION. PROVIDE J-BOX ABOVE DOOR JAMB / HEADER AND 3/4" CONDUIT WITH HOMERUN CABLE PER MANUFACTURER'S RECOMMENDATION TO ACCESS CONTROL PANLEL.

11) ACCESS CONTROL SYSTEM DOOR CONTACT/POSITION SWITCH. CONTACTS TO BE FLUSH MOUNTED IN NEW DOOR FRAMES / CONSTRUCTION LOCATED WITHIN 6" OF DOOR EDGE ON LATCH SIDE. SEE DOOR DETAILS FOR ADDITIONAL INFORMATION. PROVIDE J-B0X ABOVE DOOR JAMB/HEADER AND 3/4" CONDUIT WITH HOMERUN CABLE PER MANUFACTURER'S RECOMMENDATION TO ACCESS CONTROL PANEL.

12) PROVIDE 2" CONDUIT RISER WITH SYSTEM CONDUCTORS PER MANUFACTURER'S RECOMMENDATIONS FROM ACCESS CONTROL PANEL TO ACCESS CONTROL CABINETS ON FLOORS ABOVE.

(13) UNDERGROUND ACCESS CONTROL SYSTEM CONDUIT AND SYSTEM CONDUCTORS PER MANUFACTURER'S RECOMMENDATIONS FROM ACCESS CONTROL PANEL LOCATION TO OTHER SITE BUILDING STRUCTURES. CONDUIT SIZE, ROUTING PER SITE PLAN DRAWINGS. CABLING TO BE PROVIDED IN A "STAR TOPOLOGY" CONFIGURATION. ROUTING OF SYSTEM CONDUCTORS' DAISY CHAINED THROUGH BUILDINGS IS NOT ACCEPTABLE.

PROVIDE CONDUIT SLEEVES BETWEEN FLOORS FOR ACCESS CONTROL SYSTEM CONDUCTOR PATHWAYS. WHERE FLOOR IS RATED, PROVIDE FIRESTOP SYSTEM ASSEMBLY WITH RATING EQUAL TO OR GREATER THAN PENETRATED STRUCTURE FOR A UL LISTED PENETRATION SYSTEM. (STI EZ-PATH OR APPROVED EQUAL).

PROVIDE 3/4" CONDUIT WITH HOMERUN CABLE PER MANUFACTURER'S RECOMMENDATION TO ACCESS CONTROL PANEL.

(15) FLUSH CEILING OR WALL MOUNTED ACCESS CONTROL SYSTEM AUDIBLE SOUNDER.

(16) CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR, REFER TO NOTE #8 ON E-3.01 FOR SIZES AND QUANTITIES. $\left(egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{array}{c} \egin{arr$

CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR, REFER TO NOTE #5 ON E-1.01 FOR 18) SIZES AND QUANTITIES.

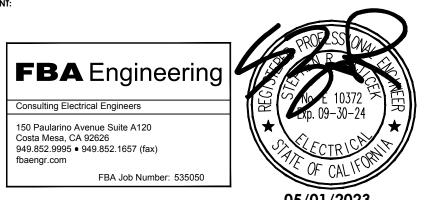
ACCESS CONTROL PANEL. TO TYPICAL FIELD DEVICES.— SEE "ACCP" BELOW FOR TYPICAL NOTATIONS AND DESCRIPTIONS. LEVEL 2 LEVEL 1 ACCESSIBLE CEILING POOL BLDG. **ELEC.131** 20A/1P "TBP" "MTB" TO TYPICAL FIELD DEVICES. SEE "ACCP" AT LEFT FOR **ELEC. 117** TYPICAL NOTATIONS AND 120V — 20A/1P DESCRIPTIONS. "ACTCP" (18)(13) (13)(18)

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BASIS OF BEARINGS: BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF 162 ND STREET (FORMERLY MARKET STREET) BEING N 89° 55′ 30″ E SHOWN ON TRACT NO. 10901, M.B. 254/31-32

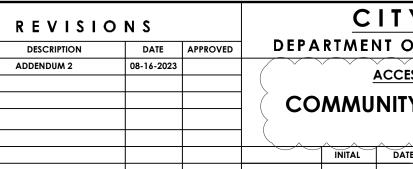
BENCHMARK: THE CITY OF GARDENA BENCHMARK NO. 5D-15 ELEV. = 43.508











ACCESS CONTROL RISER DIAGRAM | SCALE: NONE CITY OF GARDENA DEPARTMENT OF PUBLIC WORKS - ENGINEERING **ACCESS CONTROL NOTES, RISER DIAGRAM & DETAILS COMMUNITY AQUATICS & SENIOR CENTER** SEC-0.02 INITAL DATE APPROVED BY: DESIGNED BY SR 08/07/2023

LEVEL 1

DRAWN BY SR 08/07/2023

DIRECTOR OF PUBLIC WORKS SHT. <u>2</u> OF <u>12</u> DWG. NO. <u>5-2606</u>

INTRUSION DETECTION SYSTEM GENERAL NOTES

1.1 GENERAL

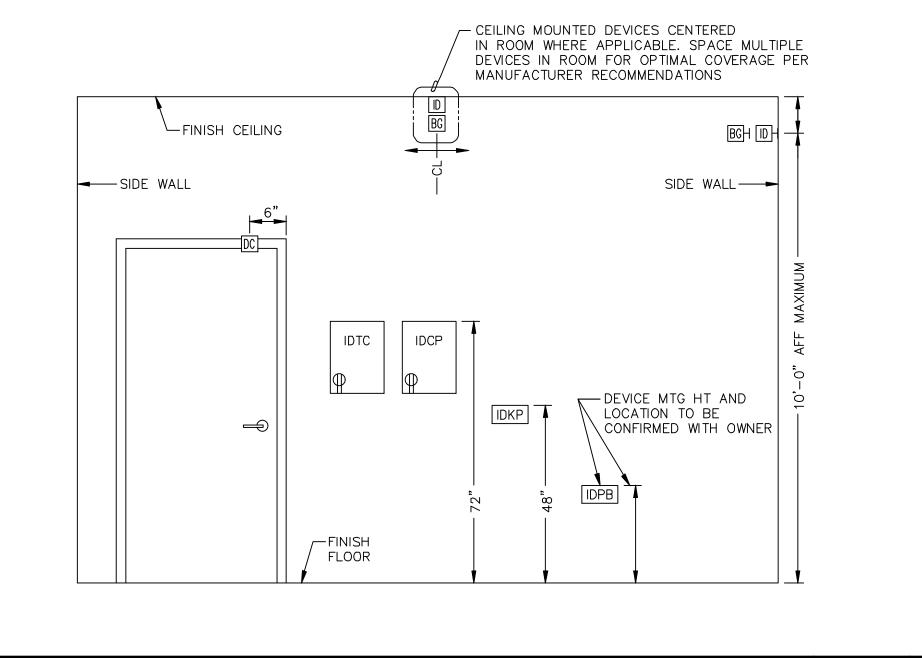
- 1. SECURITY CONTRACTOR SHALL PROVIDE, PROGRAM AND INSTALL A FULLY FUNCTIONAL, COMPLETE AND OPERATIONAL INTRUSION DETECTION SYSTEM. PROVIDE ALL ENGINEERING, DESIGN, TESTING, EQUIPMENT, MATERIALS, COMPONENTS AND INSTALLATION NECESSARY AS PART OF THIS WORK.
- 2. INTRUSION DETECTION SYSTEM, AT A MINIMUM, SHALL INCLUDE A DIGITAL ALARM COMMUNICATOR, BUILT-IN TELEPHONE LINE MONITOR, MEMORY LOGGER (500 EVENT MINIMUM), REAL TIME CLOCK, CALENDAR, TEST TIMER, BATTERY CHARGING/VOLTAGE SUPERVISION CIRCUITRY, BATTERY LEAD SUPERVISION, DIAGNOSTICS, TIME/EVENT BASED SCHEDULING AND ALL MODULES AND COMPONENTS FOR A COMPLETE AND OPERABLE SYSTEM.

3. SYSTEM SHALL:

- A. BE SCALABLE TO SUPPORT INDEPENDENT DEVICE ZONES (SINGLE DEVICE OR GROUP OF DEVICES GROUPED TOGETHER), EACH WITH INTERIOR AND PERIMETER PARTITIONING. QUANTITY OF ZONES DEPENDENT ON PROJECT AND TO BE COORDINATED WITH OWNER.
- B. PROVIDE IDENTIFICATION, ANNUNCIATION AND COMMUNICATION OF ALARMED DETECTORS ON A POINT-BY-POINT BASIS, INCLUDING EACH ACCESS CONTROL BY USER NUMBER.
- C. BE CAPABLE OF LOCALLY OR REMOTE PROGRAMMING. BE CAPABLE OF LOCALLY OR REMOTE PROGRAMMING.
- D. BE PROVIDED WITH SECONDARY POWER BACK-UP:
- 1) VIA BATTERIES. BATTERIES TO BE SIZED FOR MINIMUM 60-HOUR SUPERVISION AND 15-MINUTES OF ALARM. BATTERY CHARGER TO BE SIZED BASED ON BATTERY CAPACITIES.
- E. ALLOW REAL-TIME STATUS MONITORING/VIEWING OF DEVICES AND UNIT AND AREA EVENTS (AC FAIL, BATTERY FAIL, UNIT CONNECTED/LOST, AREA ARM/DISARM, INPUT TROUBLE, ETC.)
- 4. ALL FIELD DEVICES SHALL BE INDIVIDUALLY HOMERUN TO IDCP OR IDTC. DAISY CHAINING OF DEVICES IS NOT ACCEPTABLE UNLESS WRITTEN APPROVAL IS PROVIDED PRIOR TO SYSTEM SHOP DRAWINGS AND INSTALLATION OF ANY DEVICES.

1.2 INTRUSION DETECTION AND ALARM SYSTEM BASIS OF DESIGN

- 1. THE INTENT AND PURPOSE OF THE INTRUSION DETECTION AND ALARM SYSTEM IS TO PROVIDE SECURITY/INTRUSION DETECTION TO THE AREAS INDICATED ON PLAN, BY THE INSTALLATION OF DEDICATED AND SPECIFIC DEVICES TO COVER SUCH AREAS. PERIMETER DOORS, ROOF HATCHES, OR OTHER POTENTIAL ENTRY POINTS SHALL BE EQUIPPED WITH DEDICATED, CONCEALED MAGNETIC CONTACT SWITCHES AND INTERIOR AREA PROTECTION SHALL BE PROVIDED VIA A COMBINATION OF PASSIVE INFRARED / MICROWAVE TYPE, WALL OR CEILING MOUNTED DETECTORS, AND/OR GLASS BREAK SENSORS AS LOCATED PER PLANS. THE ARMING AND DISARMING OR THE INTRUSION DETECTION AND ALARM SYSTEM SHALL BE ACHIEVED LOCALLY WITH A DEDICATED KEYPAD OR REMOTELY ACCESSED VIA WEB/ETHERNET CONNECTION FROM A REMOTE LOCATION.
- 2. THE INTENT OF THE SECURITY PLAN DRAWINGS IS TO GUIDE THE SECURITY CONTRACTOR IN THE BASIC INTENT OF THE SYSTEM DESIGN AND SHALL NOT BE CONSIDERED A FINAL A COMPLETE SET OF PLANS. THE SECURITY CONTRACTOR SHALL INCLUDE AS PART OF HIS BID, AND SUBSEQUENT INSTALLATION, ALL REQUIRED MATERIALS AND LABOR, INCLUDING BUT NOT LIMITED TO ALL DEVICES, CABLING, CONNECTIONS, PATHWAYS, FIRESTOPPING, HARDWARE, SOFTWARE, UPS/BATTERY BACKUP, INTERFACES, WARRANTIES, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
- 3. THE FOLLOWING SHALL BE UTILIZED AS AN INTRUSION DETECTION AND ALARM SYSTEM EQUIPMENT BASIS OF DESIGN. THE LIST DOES NOT CONSTITUTE COMPLETE PARTS OR MATERIALS, BUT A GUIDE OF EQUIPMENT FROM AN ACCEPTABLE MANUFACTURER FOR COMPONENTS. CONTRACTOR SHALL AUGMENT AND PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM. THE FOLLOWING LIST OF ITEMS ARE IDENTIFIED FROM BOSCH SECURITY SYSTEMS UNLESS OTHERWISE NOTED:
- A. ALARM PANEL BOSCH D9412 GV4
- B. DIGITAL KEYPAD BOSCH D1260 C. PASSIVE INFRARED/MICROWAVE DETECTORS
- BOSCH DS970 (LONG RANGE, SURFACE MTD.)
- BOSCH DS950 (MEDIUM RANGE, SURFACE MTD.)
- BOSCH DS9360 (360 DEGREE, SURFACE MTD.) HONEYWELL 995 (LONG/WIDE RANGE, FLUSH MTD.)
- HONEYWELL IS-280CM (360 DEGREE, FLUSH/SURFACE MTD.)
- HONEYWELL DT6360STC (360 DEGREE, HIGH CEILING OF 8 FEET TO 16 FEET)
- D. GLASS BREAK SENSOR HONEYWELL FG1625F
- E. SIREN/SPEAKER SENTROL MPI36 F. MAGNETIC DOOR CONTACTS
- SENTROL 1078CT (FLUSH)
- SENTROL 1042TW (SURFACE)
- SENTROL 2505 (SURFACE, EXPOSED WIRE)
- SENTROL 2707A (HEAVY DUTY) GE 2202 (OVERHEAD DOOR)
- G. OCTOPOPIT 8-ZONE EXPANDER D8128D H. OCTORELAY - D8129
- I. POWER SUPPLY ALTRONIX AL300ULX
- J. ALARM CABLE PLENUM RATED (UON), STRANDED, PVC, 18GA MIN, 2PR TWISTED



TYPICAL DEVICE MOUNTING DETAIL | SCALE: NONE

KEY NOTES

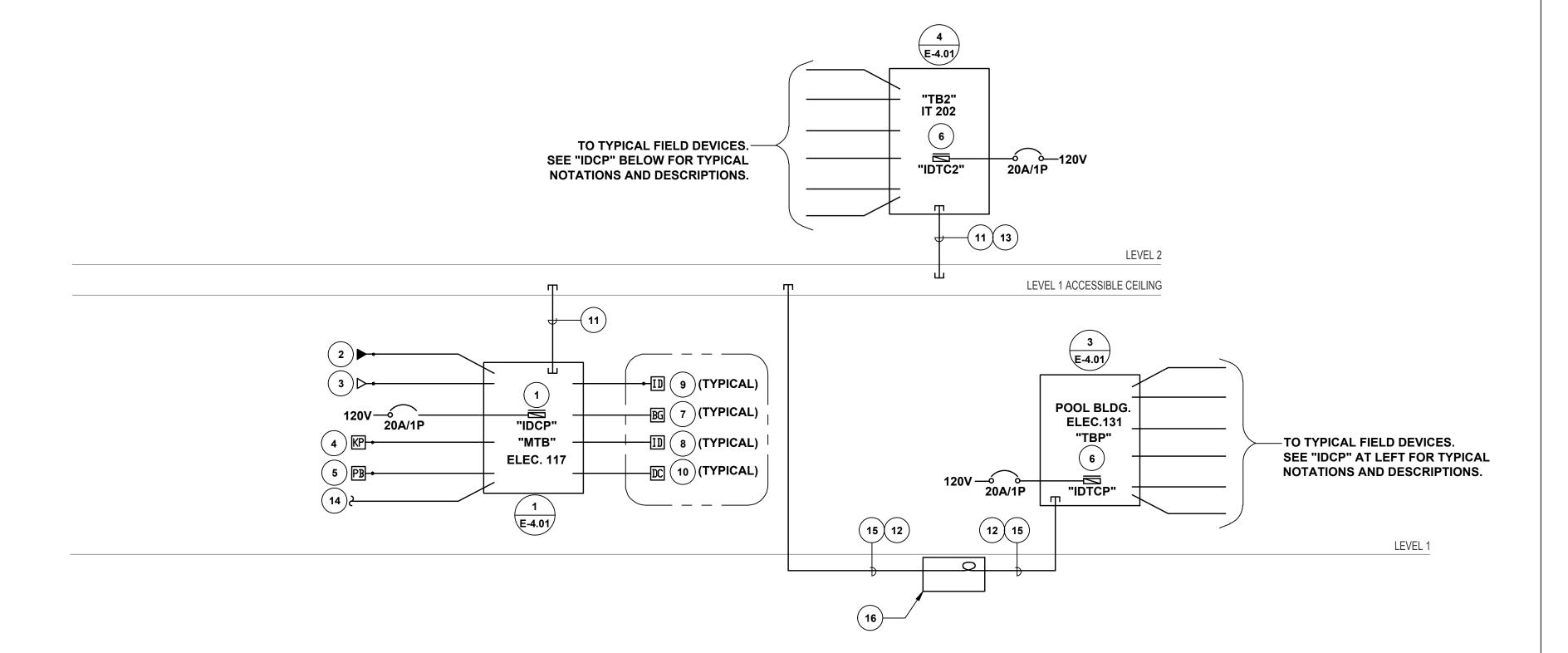
- 1 NITRUSION DETECTION SYSTEM CONTROL PANEL COMPLETE WITH KEYED LOCKABLE ENCLOSURE, DIGITAL ALARM COMMUNICATOR, 120 VOLT CONNECTION, POWER SUPPLY AND TRANSFORMER. SECONDARY BATTERIES (OR CONNECTION TO SUPPLEMENTAL EMERGENCY POWER) AND CHARGER, OWNER'S MANUAL, WARRANTY CARD, AND ALL MODULES AND ACCESSORIES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- (2) TELEPHONE SYSTEM BACKUP INTERFACE. PROVIDE 1"CONDUIT WITH TELEPHONE CABLE FROM CONTROL PANEL DIGITAL ALARM COMMUNICATOR TO TELEPHONE SYSTEM/BACKBOARD LOCATION. COORDINATE PHONE LINE REQUIREMENTS WITH
- (3) PRIMARY ETHERNET SYSTEM INTERFACE CONNECTION WITH REQUIRED MODULES AND CABLING HOMERUN TO NEAREST BUILDING DATA CABINET/ENCLOSURE. COORDINATE WITH OWNER FOR ALL REQUIRED CABLING STANDARDS IN PLACE.
- (4) INTRUSION DETECTION SYSTEM TOUCH SCREEN TYPE KEYPAD. PROVIDE MANUFACTURER'S RECOMMENDED BACKBOX AND 3/4" CONDUIT HOMERUN WITH
- CABLE PER MANUFACTURERS RECOMMENDATIONS TO IDCP (OR IDTC). (5) INTRUSION DETECTION SYSTEM PANIC BUTTON. EXACT LOCATIONS AND FINAL QUANTITIES AS COORDINATED WITH OWNER. PROVIDE BACKBOX TO MATCH DEVICE
- FACEPLATE AND 3/4"C HOMERUN WITH CABLE PER MANUFACTURER'S RECOMMENDATIONS TO IDCP (OR IDTC). (6) INTRUSION DETECTION TERMINAL CABINET COMPLETE WITH LOCKABLE ENCLOSURE (KEYED TO MATCH CONTROL PANEL), 120 VOLT POWER SUPPLY AND TRANSFORMER, SECONDARY BATTERIES (OR CONNECTION TO SUPPLEMENTAL EMERGENCY POWER)
- AND ALL MODULES TERMINAL BLOCKS AND ACCESSORIES FOR A COMPLETE AND OPERABLE SYSTEM. (7) INTRUSION DETECTION BREAK GLASS SENSOR (CEILING OR WALL MOUNTED PER PLAN) WITH SPECIFIC FREQUENCY MICROPROCESSOR BASED SOUND ANALYSIS TECHNOLOGY. EXACT MOUNTING LOCATIONS (RELATIVE TO ROOM CONSTRUCTION
- AND ACOUSTICS, MOUNTING HEIGHTS, QUANTITY OF DEVICES PER SPACE, WINDOW SIZE COVERAGE, ETC.) SHALL BE PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S RECOMMENDED BACKBOX WITH 3/4" CONDUIT HOMERUN WITH CABLE PER MANUFACTURER'S RECOMMENDATIONS TO IDCP (OR IDTC). (8) INTRUSION DETECTION MOTION SENSOR, CEILING MOUNTED, PANORAMIC 360 DEGREE COVERAGE, MULTI-TECHNOLOGY TYPE (PIR & MICROWAVE TYPE) WITH SELF
- ENVIRONMENT AND MOUNTING HEIGHTS FOR WHICH THEY ARE BEING INSTALLED. PROVIDE MANUFACTURER'S RECOMMENDED BACKBOX WITH 3/4" CONDUIT HOMERUN WITH CABLE PER MANUFACTURER'S RECOMMENDATION TO IDCP (OR IDTC). NTRUSION DETECTION MOTION SENSOR, WALL MOUNTED, MULTI-TECHNOLOGY TYPE (9) (PIR & MICROWAVE TYPE) WITH SELF TEST SUPERVISION. DETECTORS, QUANTITIES AND LOCATIONS SHALL BE LISTED FOR ENVIRONMENT AND MOUNTING HEIGHTS FOR

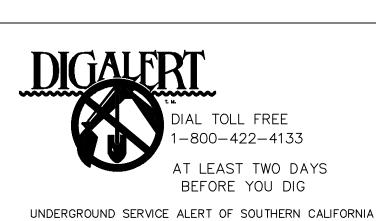
WHICH THEY ARE BEING INSTALLED. PROVIDE MANUFACTURER'S RECOMMENDED BACKBOX WITH 3/4" CONDUIT HOMERUN WITH CABLE PER MANUFACTURER'S

TEST SUPERVISION. DETECTORS, QUANTITIES AND LOCATIONS SHALL BE LISTED FOR

- RECOMMENDATION TO IDCP (OR IDTC). (10) INTRUSION DETECTION SYSTEM DOOR CONTACT/POSITION SWITCH. CONTACTS TO BE \nearrow FLUSH MOUNTED IN NEW DOOR FRAMES/CONSTRUCTION LOCATED WITHIN 6" OF DOOR EDGE ON LATCH SIDE. SEE DOOR DETAILS FOR ADDITIONAL INFORMATION. PROVIDE J-B0X ABOVE DOOR JAMB/HEADER AND 3/4" CONDUIT HOMERUN WITH CABLE PER MANUFACTURER'S RECOMMENDATION TO IDCP (OR IDTC).
- (11) CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR, REFER TO NOTE #8 ON E-3.01 FOR SIZES AND QUANTITIES.
- (12) UNDERGROUND INTRUSION SYSTEM CONDUIT AND SYSTEM CONDUCTORS PER MANUFACTURER'S RECOMMENDATIONS FROM IDCP LOCATION TO OTHER SITE BUILDING STRUCTURES. CONDUIT SIZE, ROUTING AND PULL BOXES PER SITE PLAN DRAWINGS. SITE CONDUIT SYSTEM DISTRIBUTION AND IDTC TERMINAL CABINET CABLING TO BE PROVIDED IN A "STAR TOPOLOGY" CONFIGURATION. ROUTING OF SYSTEM CONDUCTORS' DAISY CHAINED THROUGH BUILDINGS IS NOT ACCEPTABLE.
- (13) PROVIDE CONDUIT SLEEVES BETWEEN FLOORS FOR ACCESS CONTROL SYSTEM CONDUCTOR PATHWAYS. WHERE FLOOR IS RATED. PROVIDE FIRESTOP SYSTEM ASSEMBLY WITH RATING EQUAL TO OR GREATER THAN PENETRATED STRUCTURE FOR A UL LISTED PENETRATION SYSTEM. (STI EZ-PATH OR APPROVED EQUAL).
- (14) TO OTHER INTEGRATED SECURITY SYSTEM HEAD END EQUIPMENT FOR ACCESS CONTROL AND/OR CCTV. CONTRACTOR SHALL PROVIDE ALL COMPONENTS NECESSARY FOR COMPLETE INTEGRATION, INCLUDING ALL PATHWAYS, CABLES. MODULES, HARDWARE, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE
- (15) CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR, REFER TO NOTE #5 ON E-1.01 FOR

(16) TYPICAL PULLBOX, IF REQUIRED. PROVIDE SERVICE LOOP IN ALL CABLES.



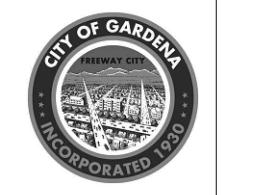


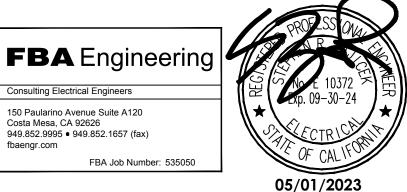
BASIS OF BEARINGS:

BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF 162 ND STREET (FORMERLY MARKET STREET) BEING N 89° 55′ 30″ E SHOWN ON TRACT NO. 10901, M.B. 254/31-32

BENCHMARK:

THE CITY OF GARDENA BENCHMARK NO. 5D-15 ELEV. = 43.508





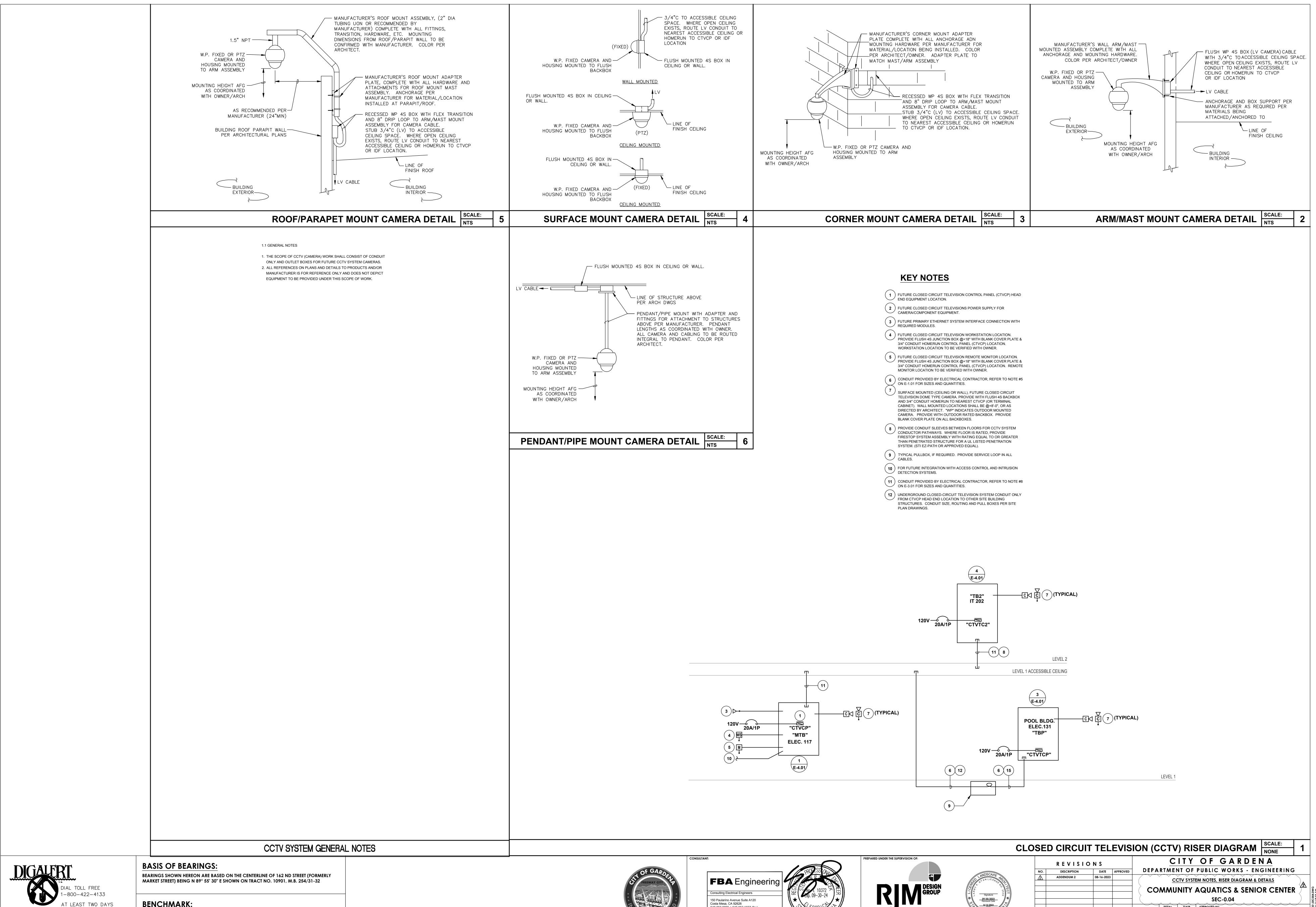




CITY OF GARDENA REVISIONS DEPARTMENT OF PUBLIC WORKS - ENGINEERING **INTRUSION DETECTION NOTES, RISER DIAGRAM & DETAILS COMMUNITY AQUATICS & SENIOR CENTER** SEC-0.03 INITAL DATE APPROVED BY: DESIGNED BY SR 08/07/2023

INTRUSION DETECTION RISER DIAGRAM | SCALE: NONE

DRAWN BY SR 08/07/2023 DIRECTOR OF PUBLIC WORKS CHECKED BY BZ 08/07/2023 SHT. 3 OF 12 DWG. NO. 5-2606

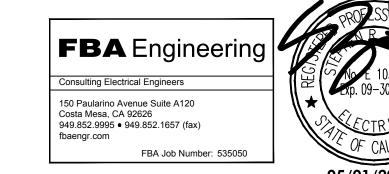


UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BENCHMARK:

THE CITY OF GARDENA BENCHMARK NO. 5D-15 ELEV. = 43.508









INITAL DATE APPROVED BY: DESIGNED BY SR 08/07/2023 DRAWN BY SR 08/07/2023 DIRECTOR OF PUBLIC WORKS CHECKED BY BZ 08/07/2023

sht. <u>4</u> of <u>12</u> dwg. no. <u>5-2606</u>

KEY NOTES

1 CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR, REFER TO NOTE #5 ON E-1.01 FOR SIZES AND QUANTITIES.

SECURITY GENERAL NOTES:

ALL WALL MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL ROOM ELEVATIONS PRIOR TO ROUGH-IN.

- PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED WITH AN APPROVED FIRE STOP SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE WALL BEING PENETRATED.
- ALL DEVICES MOUNTED BACK-TO-BACK ON COMMON WALLS SHALL BE INSTALLED IN SEPARATE BOXES OFFSET 24-INCHES MINIMUM OR PROVIDED WITH PUTTY OR ANOTHER APPROVED SOUNDPROOF BACKING.
- WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS EXIST, CONTRACTOR SHALL PROVIDE:
- A. ALL CONDUITS SHALL BE ROUTED PARALLEL TO BUILDING STRUCTURES AND RACKED NEATLY IN GROUPS OF MULTIPLE PATHWAYS.
- B. ALL SECURITY CABLING SHALL BE:
 - 1) INSTALLED IN EMT CONDUIT PATHWAYS.
- COORDINATE LOCATION OF ALL SECURITY DEVICES WITH ARCHITECT PRIOR

SITE PLAN GENERAL NOTES:

1. LOCATIONS OF EXISTING UTILITIES ARE NOT SHOWN AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, THE ENGINEER SHOULD SEARCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.

2. CONTRACTOR SHALL VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK BY CONTACTING UNDERGROUND SERVICE ALERT (U.S.A.) AT 1(800) 422-4133, OR OTHER LOCAL APPLICABLE UNDERGROUND SERVICE ALERT AGENCIES.

3. THE DRAWINGS ILLUSTRATE LOCATIONS OF EQUIPMENT AND ASSEMBLIES, PULLBOXES, MANHOLES, HANDHOLES, AND VAULTS, INCLUDING OTHER ELECTRICAL UNDERGROUND STRUCTURES AND PATHWAYS. CONTRACTOR SHALL CLOSELY COORDINATE EXACT LOCATIONS AND MOUNTING DEPTHS OF ALL DEVICES, STRUCTURES AND PATHWAYS WITH OTHER TRADES PRIOR TO PLACEMENT, TO ENSURE FINAL LOCATIONS ARE OUTSIDE FEATURE LANDSCAPE AND ARCHITECTURAL AREAS AND ARE NOT IN CONFLICT WITH THE INSTALLATION OF MATERIALS BY OTHER TRADES.

4. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE PLANS FOR EXACT LOCATION OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL EQUIPMENT AND DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH ARCHITECT OR OWNERS' REPRESENTATIVE PRIOR TO ROUGH-IN, TO ENSURE SUCH ITEMS ARE NOT PLACED IN PLANTING / HARDSCAPE AREAS.

5. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE WEATHERPROOF, NEMA

6. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

CITY OF GARDENA DEPARTMENT OF PUBLIC WORKS - ENGINEERING SITE SECUIRTY PLAN

COMMUNITY AQUATICS & SENIOR CENTER SEC-1.01

INITAL DATE APPROVED BY: DESIGNED BY SR 08/07/2023
 DRAWN BY
 SR
 08/07/2023
 DATE
 DIRECTOR OF PUBLIC WORKS CHECKED BY BZ 08/07/2023 SHT. <u>5</u> OF <u>12</u> DWG. NO. <u>5-2606</u>

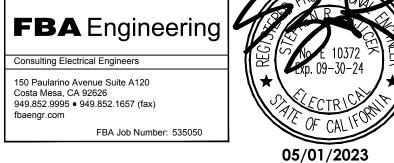
BENCHMARK: THE CITY OF GARDENA BENCHMARK NO. 5D-15 ELEV. = 43.508

AT LEAST TWO DAYS

BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

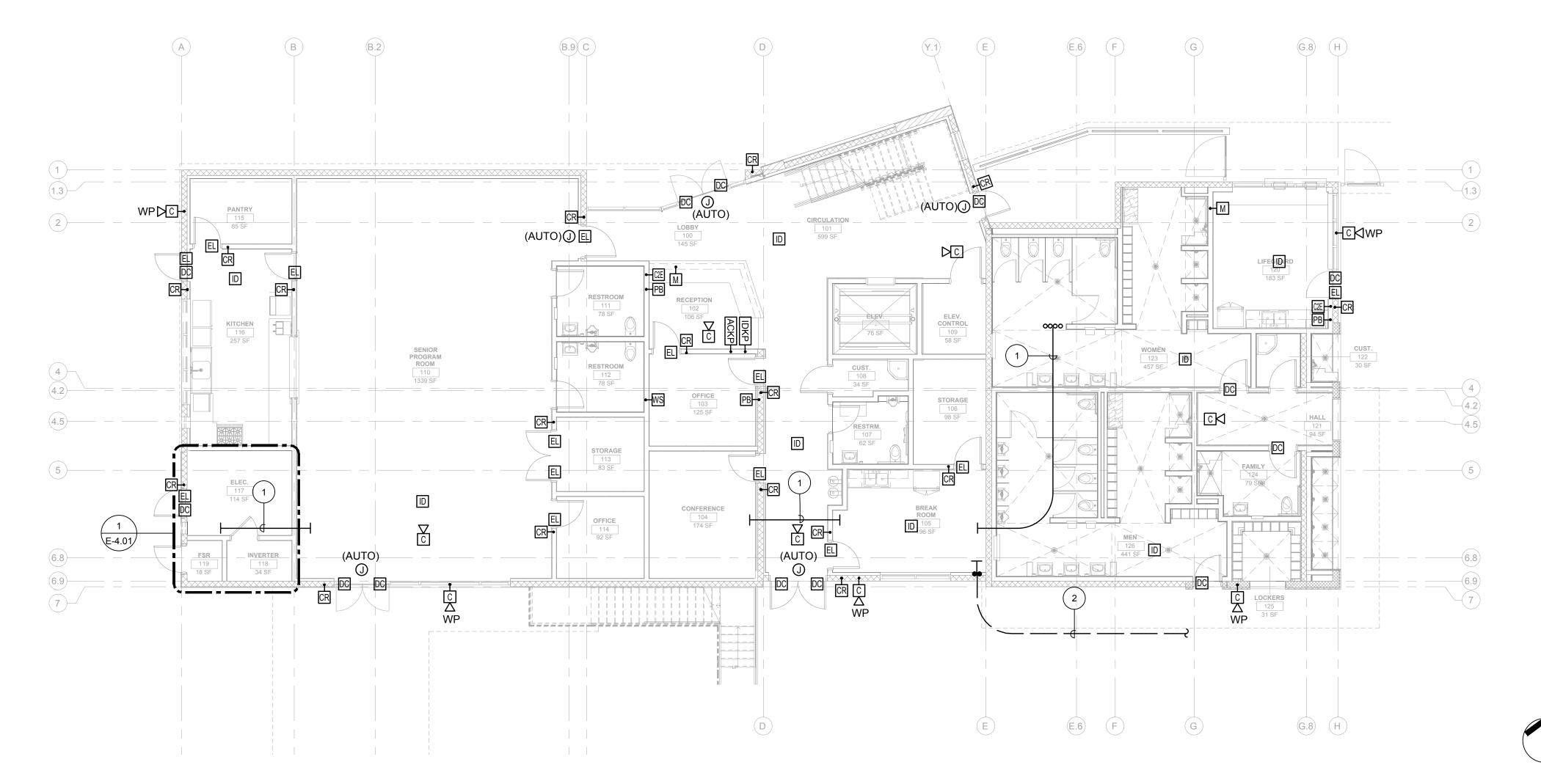








BUILDING SECOND FLOOR SECURITY PLAN | SCALE: 1/8"=1'-0" | 2



BUILDING FIRST FLOOR SECURITY PLAN | SCALE: 1/8"=1'-0" | 1

ALL WALL MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL ROOM ELEVATIONS PRIOR TO ROUGH-IN.

PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED WITH AN APPROVED FIRE STOP SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE WALL BEING PENETRATED.

ALL DEVICES MOUNTED BACK-TO-BACK ON COMMON WALLS SHALL BE INSTALLED IN SEPARATE BOXES OFFSET 24-INCHES MINIMUM OR PROVIDED WITH PUTTY OR ANOTHER APPROVED SOUNDPROOF BACKING.

WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS EXIST, CONTRACTOR

A. ALL CONDUITS SHALL BE ROUTED PARALLEL TO BUILDING STRUCTURES AND RACKED NEATLY IN GROUPS OF MULTIPLE PATHWAYS.

B. ALL SECURITY CABLING SHALL BE:

SECURITY GENERAL NOTES:

KEY NOTES

AND CONTINUATION.

(1) 2"C. (TELECOM.) & (3) 2"C.O. (ACCESS, SECURITY & CCTV) PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, SEE E-3.01.

2 LOW VOLTAGE CONDUIT TO POOL BUILDING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, REFER TO NOTE #5 ON E-1.01 FOR QUANTITIES, SIZE

1) INSTALLED IN EMT CONDUIT PATHWAYS.

COORDINATE LOCATION OF ALL SECURITY DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

AT LEAST TWO DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

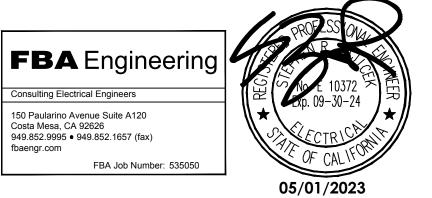
BASIS OF BEARINGS: BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF 162 ND STREET (FORMERLY MARKET STREET) BEING N 89° 55' 30" E SHOWN ON TRACT NO. 10901, M.B. 254/31-32

THE CITY OF GARDENA BENCHMARK NO. 5D-15 ELEV. = 43.508

BENCHMARK:



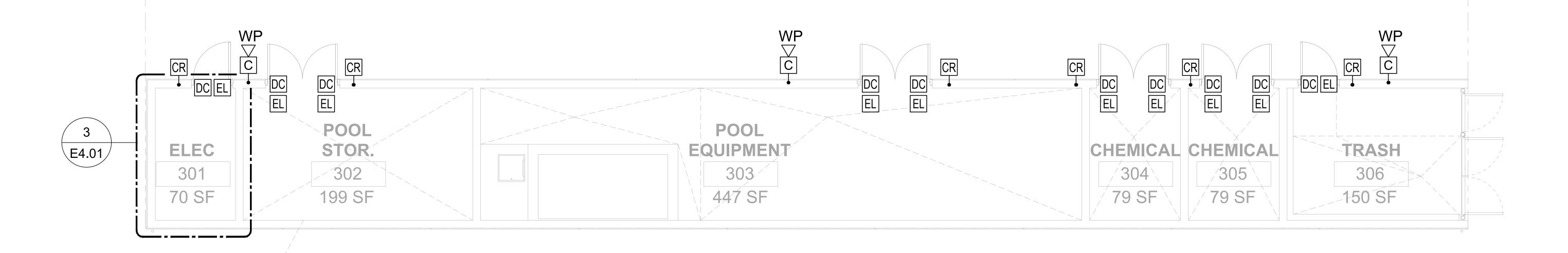


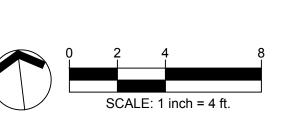






REVISIONS						OF GARDENA	
NO.	DESCRIPTION	DATE	APPROVED	DEPA	RTME	NT OF	PUBLIC WORKS - ENGINEERING
2	ADDENDUM 2	08-16-2023				BU	UILDING SECURITY PLANS
				CO	MMU	NITY	AQUATICS & SENIOR CENTER SEC-3.01
							3LC-3.01
					INITAL	DATE	APPROVED BY:
				DESIGNED BY	SR	08/07/2023	3
				DRAWN BY	SR	08/07/2023	DATE DIRECTOR OF PUBLIC WORKS
				CHECKED BY	BZ	08/07/2023	3
							SHT. 6 OF 12 DWG. NO. 5-2606





POOL BUILDING SECURITY PLAN SCALE: 1/4"=1'-0"

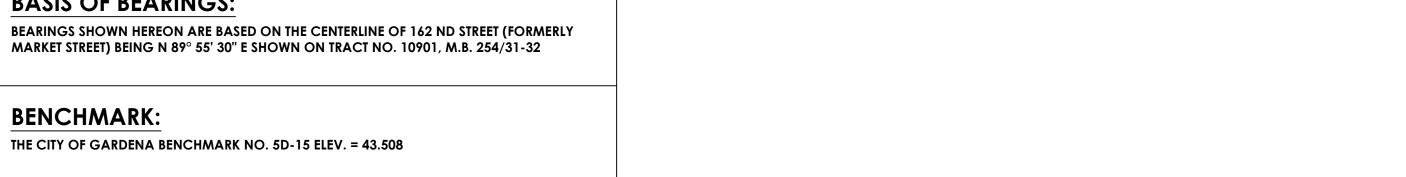
SECURITY GENERAL NOTES:

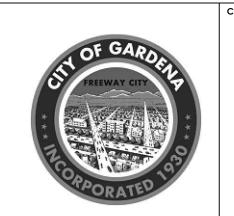
- ALL WALL MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL ROOM ELEVATIONS PRIOR TO ROUGH-IN.
- PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED WITH AN APPROVED FIRE STOP SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE WALL BEING PENETRATED.
- ALL DEVICES MOUNTED BACK-TO-BACK ON COMMON WALLS SHALL BE INSTALLED IN SEPARATE BOXES OFFSET 24-INCHES MINIMUM OR PROVIDED WITH PUTTY OR ANOTHER APPROVED SOUNDPROOF BACKING.
- WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS EXIST, CONTRACTOR SHALL PROVIDE:
- A. ALL CONDUITS SHALL BE ROUTED PARALLEL TO BUILDING STRUCTURES AND RACKED NEATLY IN GROUPS OF MULTIPLE PATHWAYS.
- B. ALL SECURITY CABLING SHALL BE:
- 1) INSTALLED IN EMT CONDUIT PATHWAYS.
- COORDINATE LOCATION OF ALL SECURITY DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN.

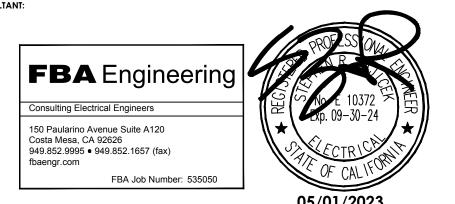
AT LEAST TWO DAYS BEFORE YOU DIG

UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BASIS OF BEARINGS: BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF 162 ND STREET (FORMERLY MARKET STREET) BEING N 89° 55' 30" E SHOWN ON TRACT NO. 10901, M.B. 254/31-32











REVISIO	N S		CITY OF GARDENA
DESCRIPTION	DATE	APPROVED	DEPARTMENT OF PUBLIC WORKS - ENGINEERING
ADDENDUM 2	08-16-2023		POOL BUILDING SECURITY PLAN
			<u> </u>
			COMMUNITY AQUATICS & SENIOR CENTER
		1	

SEC-3.03 INITAL DATE APPROVED BY: DESIGNED BY SR 08/07/2023
 DRAWN BY
 SR
 08/07/2023

 CHECKED BY
 BZ
 08/07/2023
 DIRECTOR OF PUBLIC WORKS sht. <u>7</u> of <u>12</u> dwg. no. <u>5-2606</u>

2. THE DESIGN-BUILD TELECOMMUNICATION CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF A COMPLETE TELECOMMUNICATION SYSTEM BASED ON THESE CONCEPTUAL PLANS AND SPECIFICATIONS.

3. THE TELECOMMUNICATION CONTRACTOR IS REQUIRED TO REVIEW ALL OF THE PROJECT'S CONSTRUCTION DOCUMENTS AS A WHOLE IN ORDER TO IDENTIFY ALL REQUIREMENTS THAT DIRECTLY OR INDIRECTLY AFFECT ITS PORTION OF THE TELECOMMUNICATION WORK, EVEN REQUIREMENTS LOCATED IN SECTIONS DESIGNATED AS APPLICABLE TO OTHER TRADES. IN CASE OF CONFLICTS, THE CONTRACTOR SHALL EITHER OBTAIN DIRECTION FROM THE OWNER'S REPRESENTATIVE OR OTHERWISE APPLY THE MORE STRINGENT REQUIREMENT

4. REFER TO THE ELECTRICAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. ALL APPLICABLE PORTIONS SHALL APPLY TO THE TELECOMMUNICATIONS SCOPE OF WORK

5. THE TELECOMMUNICATION SYSTEM AS SHOWN ON THESE PLANS IS CONCEPTUAL ONLY AND IS BASED ON INITIAL OWNER AND DESIGN TEAM INPUT RECEIVED. THE TELECOMMUNICATION CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE TELECOMMUNICATION SYSTEM AND DESIGN INTENT TO THE ACTUAL CONDITIONS OF THIS PROJECT AND THE OWNER'S FINAL NEEDS. COORDINATE, CONFIRM AND FINALIZE THE SYSTEMS EQUIPMENT, FEATURES, COVERAGE AND PROGRAMMING WITH THE OWNER'S REPRESENTATIVE. VERIFY WITH THE OWNER'S REPRESENTATIVE THE LEVEL OF INTEGRATION WITH OTHER SYSTEMS SUCH AS AV, SECURITY/CCTV, LIGHTING CONTROL, ENERGY MANAGEMENT, ETC.

6. THE TELECOMMUNICATION CONTRACTOR SHALL DEVELOP A COMPLETE SET OF CONSTRUCTION DOCUMENTS, PLANS AND SPECIFICATIONS AND SUBMIT TO THE OWNER'S REPRESENTATIVE FOR APPROVAL BEFORE THE START OF CONSTRUCTION.

7. PROVIDE ALL REQUIRED MATERIALS INCLUDING BUT NOT LIMITED TO EQUIPMENT, HARDWARE, DEVICES, RACKS, TERMINAL CABINETS, CONTROLLERS, POWER SUPPLIES, WIRING AND CABLING, WIRE/CABLING MANAGEMENTS SYSTEMS AND SUPPORTS, CONDUITS AND RACEWAYS, ETC. FOR A COMPLETE AND OPERABLE TELECOMMUNICATION SYSTEMS.

8. WIRELESS DEVICES AND/OR COMPONENTS ARE NOT ALLOWED AS PART OF THE BASE BID UNLESS OTHERWISE NOTED. APPROVAL OF WIRELESS SYSTEMS SHALL BE AT THE DISCRETION OF THE OWNER'S REPRESENTATIVE.

9. ALL SYSTEM SOFTWARE PLATFORMS AND QUANTITY OF LICENSES SHALL BE PROVIDED FOR ALL FURNISHED EQUIPMENT AS PART OF THE TELECOMMUNICATION CONTRACTORS COMPLETE AND OPERABLE SYSTEMS. ALL SOFTWARE PLATFORMS INSTALLED SHALL BE THE FULL AND COMPLETE VERSION OF THE MOST RECENT SOFTWARE PACKAGES AVAILABLE AT THE TIME OF THE INSTALLATION. THE OWNER'S REPRESENTATIVE SHALL BE PROVIDED WITH THE FORMAL COPIES OF ALL LICENSES AND FURNISHED WITH ALL USERNAMES AND PASSWORDS FOR THE SYSTEM AS PART OF THE CLOSE-OUT DOCUMENTATION.

10. THE TELECOMMUNICATIONS CONTRACTOR SHALL BE A LICENSED (C-7) LOW VOLTAGE SYSTEMS CONTRACTOR AND A LICENSED (C-10) ELECTRICAL CONTRACTOR AND SHALL HAVE BEEN IN BUSINESS FURNISHING AND INSTALLING SIMILAR SYSTEMS IN SCOPE AND SIZE FOR A MINIMUM OF FIVE (5) YEARS.

11. THE TELECOMMUNICATION CONTRACTOR SHALL BE A FACTORY AUTHORIZED DISTRIBUTOR, INSTALLER AND WARRANTY PROVIDER FOR THE MANUFACTURER OF THE EQUIPMENT TO BE INSTALLED. PROVIDE LETTER FROM THE SYSTEMS MANUFACTURERS CERTIFYING THAT THE CONTRACTOR IS AN AUTHORIZED DISTRIBUTOR AND INSTALLER OF THE EQUIPMENT. PROVIDE CERTIFICATES OF TRAINING FOR PERSONNEL PERFORMING THE WORK.

12. THE TELECOMMUNICATION CONTRACTOR SHALL MAINTAIN A FULLY EQUIPPED SERVICE DEPARTMENT CAPABLE OF FURNISHING ADEQUATE REPAIR SERVICES FOR THE WARRANTED EQUIPMENT WITH RESPONSE TIMES TO THE PROJECT SITE WITHIN 4-HOURS.

13. ALL WORK AND EQUIPMENT SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF 1-YEAR AFTER FINAL ACCEPTANCE OF WORK. PROVIDE AN EXTENDED 1-YEAR WARRANTY FOR A TOTAL OF 2-YEARS FROM FINAL ACCEPTANCE OF WORK.

14. THE CONSTRUCTION DOCUMENTS, PLANS AND SPECIFICATIONS AND ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL LEGAL AND INDUSTRY REQUIREMENTS AND STANDARDS INCLUDING WITHOUT LIMITATION THE FOLLOWING:

A. CALIFORNIA CODE OF REGULATIONS TITLE 24, PARTS 1 AND 2 (CALIFORNIA BUILDING CODE), 2022 EDITION.

B. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 3 (CALIFORNIA ELECTRICAL CODE), 2022 EDITION.

C. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2022 EDITION.

D. OTHER REGULATING ACCRECATE MULICULARY HAVE AUTHORITY OVER ANY PORTION OF THE WORK.

C. CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 9 (CALIFORNIA FIRE CODE), 2022 EDITION.
 D. OTHER REGULATING AGENCIES WHICH MAY HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING THE STATE OF CALIFORNIA DIVISION OF INDUSTRIAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THESE NOTES AND SPECIFICATIONS.

E. THE ELECTRICAL SYSTEMS FUNCTIONALITY STANDARDS SET FORTH IN TITLE 7 OF THE CALIFORNIA
 CIVIL CODE (THE "RIGHT TO REPAIR ACT").
 F. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCT

F. THE MANUFACTURER'S REQUIREMENTS OR RECOMMENDATIONS FOR ANY INCORPORATED PRODUCTS.
G. THE MOST CURRENT APPROVED ISSUES OF ANY NOTED SPECIFICATIONS, CODES AND STANDARDS, INCLUDING SUPPLEMENTS, UNLESS NOTED OTHERWISE.

15. IN INTERPRETING THESE PLANS, THE FOLLOWING GENERAL RULES APPLY:

A. WRITTEN DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALED DRAWINGS.
B. SCALED DIMENSIONS AND GRAPHICALLY SHOWN LOCATIONS ARE TO BE CONSIDERED ONLY APPROXIMATE, FIELD VERIFY DIMENSIONS PRIOR TO BID.

C. BECAUSE THE PLANS ARE INTENDED TO SET FORTH THE REQUIREMENTS FOR CONSTRUCTION IN ONLY AN INDUSTRY-STANDARD LEVEL OF QUALITY AND DETAIL, AND THEREFORE ARE INTENDED TO BE SUPPLEMENTED BY APPROPRIATE REQUESTS FOR CLARIFICATION AND INFORMATION, ERRORS AND OMISSIONS AND TO BRING THESE ERRORS AND OMISSIONS TO THE ATTENTION OF AN APPROPRIATE OWNER REPRESENTATIVE IN A TIMELY MANNER AND ASSUMES THE RISK OF THE CONSEQUENCES OF

FAILING TO DO SO BEFORE BIDDING OR OTHERWISE PROCEEDING.

D. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION AND NOTIFY THE ELECTRICAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES.

16. SUBMIT COMPLETE CONSTRUCTION DOCUMENTS, PLANS, SPECIFICATIONS AND CATALOG DATA SHEETS FOR THE TELECOMMUNICATION SYSTEMS TO THE OWNER'S REPRESENTATIVE FOR APPROVAL. SUBMITTALS SHALL AT THE MINIMUM INCLUDE THE FOLLOWING:

A. COPIES OF CONTRACTORS CURRENT C-7 LOW VOLTAGE CONTRACTOR LICENSE AND C-10 ELECTRICAL CONTRACTORS LICENSE.

B. COPY OF THE EQUIPMENT MANUFACTURERS AUTHORIZATION LETTERS CERTIFYING THE CONTRACTOR
AS AN AUTHORIZED DISTRIBUTOR AND INSTALLER.
C. COPIES OF CERTIFICATES OF TRAINING FOR THE INSTALLING PERSONNEL AND PROOF THAT THEY ARE

LOCATED AT THE CONTRACTOR'S LOCAL FACILITY.

D. LIST OF PROJECTS SIMILAR IN SCOPE AND SIZE THAT HAVE BEEN COMPLETED IN THE LAST FIVE (5)

YEARS.
E. MANUFACTURERS AND CONTRACTORS' WARRANTIES.

F. PLANS FOR THE SITE AND BUILDING AT THE SAME SCALE AS THE CONTRACT DRAWINGS. PLANS SHALL SHOW WALLS, DOORS, WINDOWS, ROOM NUMBERS, ROOM NAMES. THE PLANS SHALL INCLUDE THE TYPE AND LOCATION OF ALL EQUIPMENT, HARDWARE, DEVICES, RACKS, TERMINAL CABINETS, CONTROLLERS, WIRING AND CABLING, CONDUIT AND RACEWAYS, ETC.

THE MOUNTING HEIGHTS SHALL BE SYMMETRICAL FOR ALL TYPES OF DEVICES.

H. PLANS SHALL INCLUDE RISER DIAGRAMS, SINGLE LINE DIAGRAMS, WIRING DIAGRAMS CALCULATIONS

FOR THE COMPLETE SYSTEM.

I. PLANS SHALL SHOW INTERFACE WITH OTHER SYSTEMS THAT ARE REQUIRED TO BE INTEGRATED.

J. MANUFACTURERS CATALOG DATA AND CUT SHEETS FOR ALL EQUIPMENT.K. TESTING AND COMMISSIONING PROCEDURES COORDINATED WITH THE OWNER'S REQUIREMENTS AND

G. PLANS SHALL INCLUDE LEGENDS, DEVICE AND BACKBOX MOUNTING REQUIREMENTS AND HEIGHTS.

MANUFACTURE'S STANDARDS INCLUDING ANSI/TIS-568-C.0, C.1, C.2 AND C.3.

17. SUBMITTALS WILL BE REVIEWED BY THE ELECTRICAL ENGINEER, IF AT ALL, ONLY PURSUANT TO THE

INDUSTRY-STANDARD PROTOCOL SET FORTH IN AIA DOCUMENT A201, AND IN NO EVENT WILL THE SUBMITTAL REVIEW PROCESS RELIEVE OR LESSEN THE SUBMITTING CONTRACTOR'S RESPONSIBILITY FOR AN INAPPROPRIATE SUBMITTAL.

18. IN NO EVENT WILL ANY SITE VISITS BY THE ELECTRICAL ENGINEER CONCERN CONSTRUCTION MEANS AND METHODS OR CONSTRUCTION SAFETY, AND ALL SUCH MATTERS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

19. COPIES OF THE PLANS PROVIDED IN ANY ELECTRONIC FORM ARE SUBJECT TO THE SAME PROVISIONS AS THE OTHER INSTRUMENTS OF SERVICE PREPARED BY OR ON BEHALF OF THE ELECTRICAL ENGINEER FOR THE PROJECT, INCLUDING WITHOUT LIMITATION THE ENGINEER'S COMMON LAW, STATUTORY OR OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. A RECIPIENT IS GRANTED AT MOST A TRANSFERABLE NONEXCLUSIVE LICENSE TO REUSE THE PLANS SOLELY FOR PROJECT PURPOSES, AND NO RECIPIENT IS AUTHORIZED TO USE OR TO ALLOW THE USE OF ALL OR ANY PORTION OF THESE PLANS FOR ANY OTHER PURPOSE, AND ANY USE FOR ANY OTHER PURPOSE WOULD CONSTITUTE ACTIONABLE PLAGIARISM. ELECTRICAL ENGINEER PROVIDES DOCUMENTS IN AN ELECTRONIC FORM ONLY IN ITS STANDARD FORMATS AND CONVENTIONS AND WITH NO GUARANTEE OF COMPATIBILITY WITH ANY RECIPIENT'S SOFTWARE OR HARDWARE AND ANY USE WITH OR CONVERSION TO OTHER FORMATS OR CONVENTIONS, OR THE USE WITH ANY PARTICULAR SOFTWARE OR HARDWARE, IS AT THE RECIPIENT'S SOLE RISK.

THE COMPONENTS OF TELECOMMUNICATIONS WORK. DETERMINE EXACT TELECOMMUNICATION EQUIPMENT, CONDUIT AND WIRING ROUTING, CONDUIT BENDS, AUXILIARY JUNCTION BOXES, SUPPORTS AND UNDEFINED CONSTRUCTION DETAILS AS A JOB CONDITION TO BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE CODE REQUIREMENTS. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE AND TO OVERCOME LOCAL DIFFICULTIES DUE TO SPACE LIMITATIONS OR INTERFERENCE OF CONDITIONS ENCOUNTERED.

20. THE DRAWINGS INDICATE, IN A DIAGRAMMATIC MANNER, THE DESIRED LOCATIONS AND ARRANGEMENT OF

21. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO DEVELOPED CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.

22. PROVIDE ALL EQUIPMENT WITH ENCLOSURES LISTED OR LABELED FOR USE AND LOCATION WHERE SUCH EQUIPMENT IS INSTALLED.

23. PROVIDE UL LISTED FIRE STOP FOR ALL PENETRATIONS THROUGH FIRE RATED FLOORS, WALLS, AND CEILINGS TO MAINTAIN ALL FIRE RATINGS.

24. GROUNDING SHALL BE EXECUTED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS, BOTH OF THE STATE OF CALIFORNIA AND LOCAL AUTHORITIES HAVING JURISDICTION.

25. CONDUIT FOR ROOF MOUNTED EQUIPMENT SHALL BE ROUTED BELOW ROOF AND WITHIN BUILDING.

26. ALL TELECOMMUNICATION EQUIPMENT SHALL BE NEW AND BE U.L. OR ETL LISTED AND LABELED.

TELECOMMUNICATIONS SYMBOLS LIST

NOTE: REFERENCE ELECTRICAL SHEETS FOR ADDITIONAL GENERAL ELECTRICAL SYMBOLS. ALL APPLICABLE PORTIONS SHALL APPLY TO THIS SCOPE OF WORK AS THOUGH WRITTEN

(J)- JUNCTION BOX, FLUSH WALL MOUNTED, +18".

JUNCTION BOX CONCEALED ABOVE ACCESSIBLE CEILING.

INDICATES CONNECTION TO EQUIPMENT AS REQUIRED, TYPICAL.

CONTROL PANEL OR TERMINAL CABINET AS INDICATED ON PLANS.

INDICATES CONDUIT RISER WITHIN BUILDING WALL.

INDICATES CONDUIT DROP WITHIN BUILDING WALL.

TELEPHONE BACKBOARD PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR, SEE E-4.01.

TELEPHONE OUTLET MOUNTED AT +18" AFF - UON. PROVIDE 3/4"C. TO POINT ABOVE ACCESSIBLE CEILING SPACE OR AS OTHERWISE INDICATED. CONDUIT & OUTLET BOX PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR, SEE E-3.01.

W - DENOTES WALL MOUNTED AT +45" AFF - UON

DATA OUTLET MOUNTED AT +18" AFF - UON. PROVIDE 3/4"C. TO POINT ABOVE ACCESSIBLE CEILING SPACE OR AS OTHERWISE INDICATED. CONDUIT & OUTLET BOX PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR, SEE E-3.01.

W - DENOTES WALL MOUNTED AT +45" AFF - UON

COMBINATION TELEPHONE/DATA OUTLET MOUNTED AT +18" AFF - UON. PROVIDE 3/4"C. TO POINT ABOVE ACCESSIBLE CEILING SPACE OR AS OTHERWISE INDICATED. CONDUIT & OUTLET BOX PROVIDED & INSTALLED BY ELECTRICAL CONTRACTOR, SEE E-3.01.

W - DENOTES WALL MOUNTED AT +45" AFF - UON

WAP WIRELESS ACCESS POINT ON FLUSH CEILING MOUNTED OUTLET BOX.

EXTERIOR WIRELESS ACCESS POINT ON FLUSH WALL MOUNTED WEATHERPROOF OUTLET BOX. PROVIDE 3/4"C. TO NEAREST TELEPHONE BACKBOARD IN IDF CLOSET.

RECESSED FLAT PANEL TV/DISPLAY WALL BOX PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, REFER TO E-0.01 & E-3.01.

DETAIL CALLOUT, "C" INDICATES DETAIL, "E-2" INDICATES DRAWING WHERE DETAIL OCCURS.

FLUSH CEILING MOUNTED PA SPEAKER WITH 3/4"C. TO NEAREST ACCESSIBLE CEILING SPACE.

PLAN OR KEY NOTE CALLOUT. REFER TO CORRESPONDING NOTE ON DRAWING WHERE CALLOUT OCCURS.

WP(S)- WEATHERPROOF PA SPEAKER WITH 3/4"C. TO NEAREST ACCESSIBLE CEILING SPACE.

ABBREVIATIONS

ABBREVIATIONS									
Α	AMPS	FLA	FULL LOAD AMPS						
AFC	ABOVE FINISHED COUNTER	G	GROUND						
AFF	ABOVE FINISH FLOOR	GFI	GROUND FAULT INTERRUPTER						
AFG	ABOVE FINISH GRADE	GRC/RGC	GALVANIZED RIGID CONDUIT						
BDF	BUILDING DISTRIBUTION FRAME	IDF	INTERMEDIATE DISTRIBUTION FRAME						
С	CONDUIT	IMC	INTERMEDIATE METALLIC TUBING						
СВ	CIRCUIT BREAKER	MCB	MAIN CIRCUIT BREAKER						
CBC	CALIFORNIA BUILDING CODE	MDF	MAIN DISTRIBUTION FRAME						
CCTV	CLOSED CIRCUIT TELEVISION	MFGR/MFR	MANUFACTURER						
CFC	CALIFORNIA FIRE CODE	MIN	MINIMUM						
CKT	CIRCUIT	MLO	MAIN LUGS ONLY						
CO	CONDUIT ONLY W/ PULL STRING	MOCP	MAXIMUM OVER CURRENT PROTECTION						
CU	COPPER	NEC	NATIONAL ELECTRIC CODE						
(D)	DEMOLISH OR REMOVE	NIC	NOT IN CONTRACT						
DIA	DIAMETER	NL	NIGHT LIGHT						
DISC	DISCONNECT	OC	ON CENTER						
EMT	ELECTRIC METALLIC TUBING	PTZ	PAN-TILT-ZOOM						
(E)	EXISTING TO REMAIN	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED						
EC	ELECTRICAL CONTRACTOR	UON	UNLESS OTHERWISE NOTED						
EF	EXHAUST FAN	V	VOLTS						
EM	EMERGENCY	VL	VERIFY LOCATION						
EMS	ENERGY MANAGEMENT SYSTEM	WP	WEATHERPROOF						
(ER)	EXISTING TO BE REMOVED	XFMR	TRANSFORMER						

LOW VOLTAGE SYSTEMS CABLING MATRIX								
APPLICATION	ТҮРЕ	CABLE COLOR	SYSTEM					
VOICE / DATA	CAT 7	RED/BLUE	VOIP / NETWORK DATA SYSTEMS					
VOICE	CAT 7	RED	VOIP					
DATA	CAT 7	BLUE	NETWORK DATA SYSTEMS					
TELEVISION	CAT 7	GRAY	VIDEO					
TELEVISION	RG11 / RG6	BLACK	VIDEO					
CAMERAS	NA	NA	FUTURE					
CAMERAS	NA	NA	FUTURE					
FIBER BACKBONE MULTI-MODE	50μc/12S	ORANGE	VOICE / DATA SURVEILLANCE					
COPPER BACKBONE (25 PAIR COUNT)	CAT 7	BROWN	VOICE / DATA					
WIRELESS ACCESS	CAT 7	PURPLE	VIDEO					

	DIVISION OF RESPONSIBILITY								
	J-BOXES, CONDUIT, ROUGH-IN, 120V TO SUPPLY POWER	DEVICES AND CABLING	HEAD END UNIT	SYSTEMS INTEGRATION	DEVICE PLACEMENT LOCATIONS AND AIMING	TESTING AND COMMISSIONING	DOOR HARDWARE SPEC TO ARCHITECT/OWNER	TELEPHONE & DATA SYSTEM PROCUREMENT, INSTALLATION, AND PROGRAMMING	CABLE TRAYS, PLYWOOD BACKBOARDS, GROUND BUS BAR
ELECTRICAL CONTRACTOR	Х	CABLING ONLY							Х
FIRE ALARM CONTRACTOR		X	Х			X			
GENERAL CONTRACTOR	Х	CABLING ONLY							X
OWNER					X				
OWNER'S I.T.								X	
SECURITY CONTRACTOR		Х	Х			X			
SECURITY SYSTEMS INTEGRATOR		DEVICES ONLY	Х	X			X		

CONDUIT FILL SCHEDULE										
	CONDUIT FILL SCHEDULE									
	MAXII	MAXIMUM NUMBER OF CONDUCTORS/CABLES (BASED ON 40% MAX FILL RATIO)								
CONDUIT (EMT, TRADE SIZE)	UTP CAT6A (0.27" O.D.)	FIBER OPTIC (0.27" O.D.)	4#22 WEST PENN 240 (0.142" O.D.)							
3/4"	3	3	11	3						
1"	6	6	19	6						
1 1/4"	10	10	30	9						
1 1/2"	13	13	44	13						
2"	22	22	78	24						

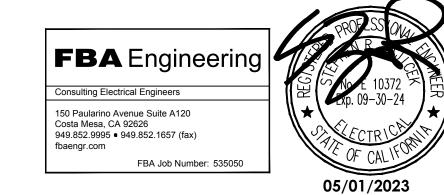
DIGALERT
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1-800-422-4133
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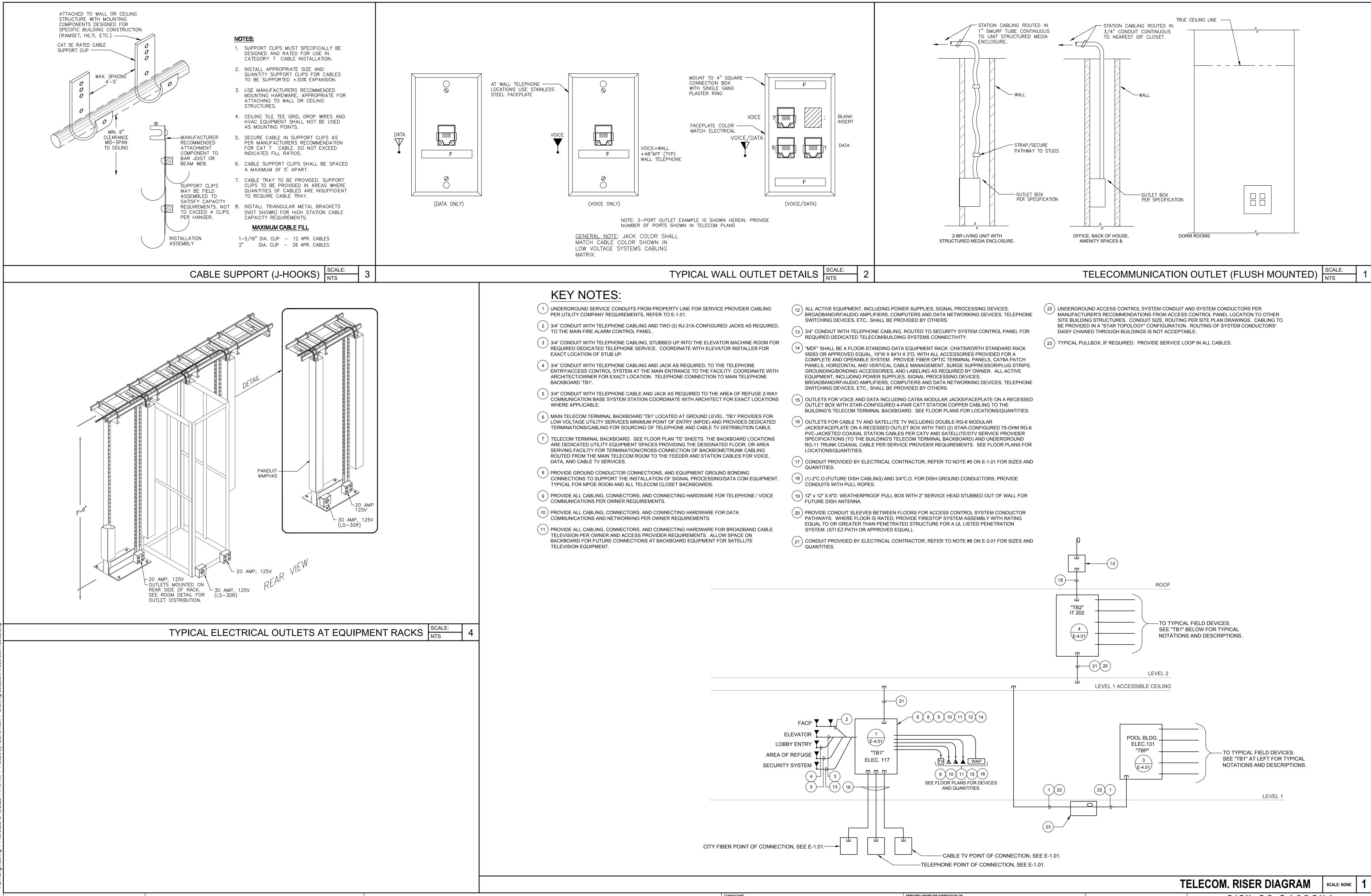








		REVISIO	NS		CITY OF GARDENA			
	NO.	DESCRIPTION	DATE	APPROVED	DEPARTMENT OF PUBLIC WORKS - ENGINEERING			
	<u> </u>	ADDENDUM 2	08-16-2023		SYMBOLS LIST, GENERAL NOTES & SCHEDULES			
					COMMUNITY AQUATICS & SENIOR CENTER			
)					TE-0.01			



DIGATER

DIAL TOLL FREE

1-800-422-4133

AT LEAST TWO DAYS

BEFORE YOU DIG

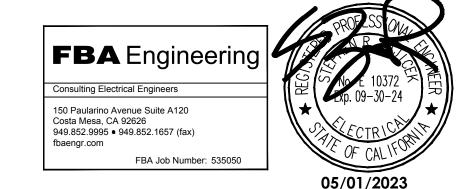
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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BASIS OF BEARINGS:









REVISIONS

DESCRIPTION
DATE APPROVED

DEPARTMENT OF PUBLIC WORKS - ENGINEERING

TELECOM. RISER DIAGRAM

COMMUNITY AQUATICS & SENIOR CENTER

TE-0.02

INITAL DATE APPROVED BY:

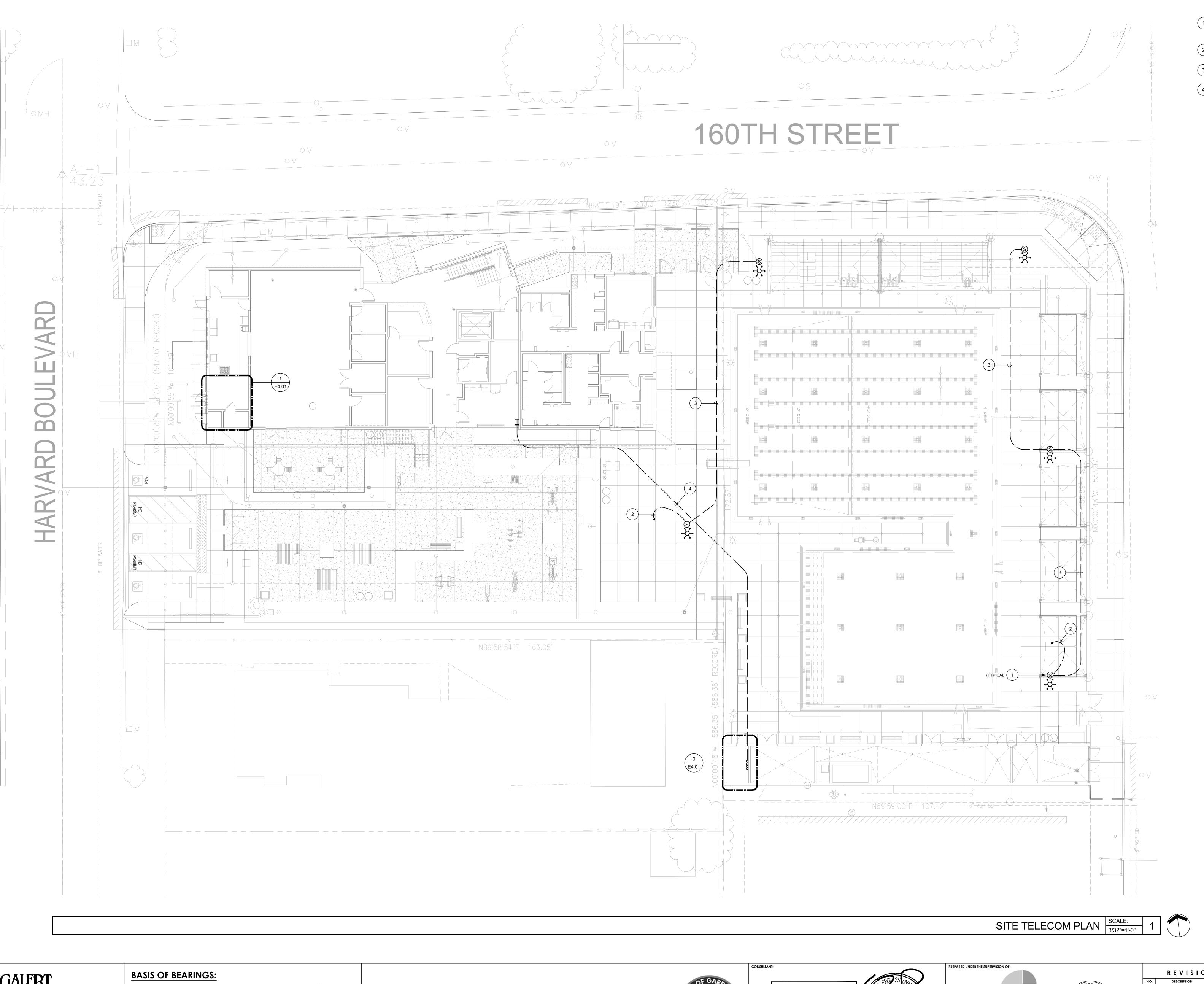
DESIGNED BY SR 08/07/2023

DRAWN BY SR 08/07/2023

CHECKED BY BZ 08/07/2023

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SHT. 9 OF 12 DWG. NO. 5-2606



PLAN NOTES

- 4S WEATHERPROOF J-BOX AT BASE OF TREE FOR SPEAKER CABLING. SEE DETAIL 3/E-4.01. J-BOX PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, REFER TO E-1.01.
- 2 1"C. (SPEAKER CABLING) TO TEL. BACKBOARD "TBP" IN POOL BUILDING. CONDUIT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, REFER TO E-1.01.
- 3) 3/4"C. (SPEAKER CABLING). CONDUIT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, REFER TO E-1.01.
- 4 CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR, REFER TO NOTE #5 ON E-1.01 FOR SIZES AND QUANTITIES.

SITE PLAN GENERAL NOTES:

1. LOCATIONS OF EXISTING UTILITIES ARE NOT SHOWN AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARDS TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN AND INSTALLED BY ANY OTHER CONTRACTS. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND UTILITIES OR STRUCTURES, WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, THE ENGINEER SHOULD SEARCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.

2. CONTRACTOR SHALL VERIFY THE LOCATION OF ANY EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO COMMENCEMENT OF WORK BY CONTACTING UNDERGROUND SERVICE ALERT (U.S.A.) AT 1(800) 422-4133, OR OTHER LOCAL APPLICABLE UNDERGROUND SERVICE ALERT AGENCIES.

3. THE DRAWINGS ILLUSTRATE LOCATIONS OF EQUIPMENT AND ASSEMBLIES, PULLBOXES, MANHOLES, HANDHOLES, AND VAULTS, INCLUDING OTHER ELECTRICAL UNDERGROUND STRUCTURES AND PATHWAYS. CONTRACTOR SHALL CLOSELY COORDINATE EXACT LOCATIONS AND MOUNTING DEPTHS OF ALL DEVICES, STRUCTURES AND PATHWAYS WITH OTHER TRADES PRIOR TO PLACEMENT, TO ENSURE FINAL LOCATIONS ARE OUTSIDE FEATURE LANDSCAPE AND ARCHITECTURAL AREAS AND ARE NOT IN CONFLICT WITH THE INSTALLATION OF MATERIALS BY OTHER TRADES.

4. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE PLANS FOR EXACT LOCATION OF FIXTURES, PULLBOXES, MANHOLES, OTHER ELECTRICAL EQUIPMENT AND DEVICES, ETC. COORDINATE ALL UNDERGROUND STRUCTURES AND CONDUIT ROUTING WITH ARCHITECT OR OWNERS' REPRESENTATIVE PRIOR TO ROUGH-IN, TO ENSURE SUCH ITEMS ARE NOT PLACED IN PLANTING / HARDSCAPE AREAS.

5. ALL EQUIPMENT LOCATED OUTDOORS SHALL BE WEATHERPROOF, NEMA

6. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

DICALFREE
DIAL TOLL FREE
1-800-422-4133
AT LEAST TWO DAYS
BEFORE YOU DIG

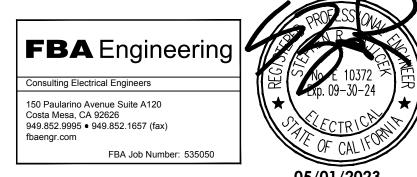
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

BASIS OF BEARINGS:

BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF 162 ND STREET (FORMERLY MARKET STREET) BEING N 89° 55' 30" E SHOWN ON TRACT NO. 10901, M.B. 254/31-32

BENCHMARK:
THE CITY OF GARDENA BENCHMARK NO. 5D-15 ELEV. = 43.508









REVISIONS

DESCRIPTION
DATE APPROVED
DEPARTMENT OF PUBLIC WORKS - ENGINEERING

SITE TELECOM PLAN

COMMUNITY AQUATICS & SENIOR CENTER

TE-1.01

INITAL DATE APPROVED BY:

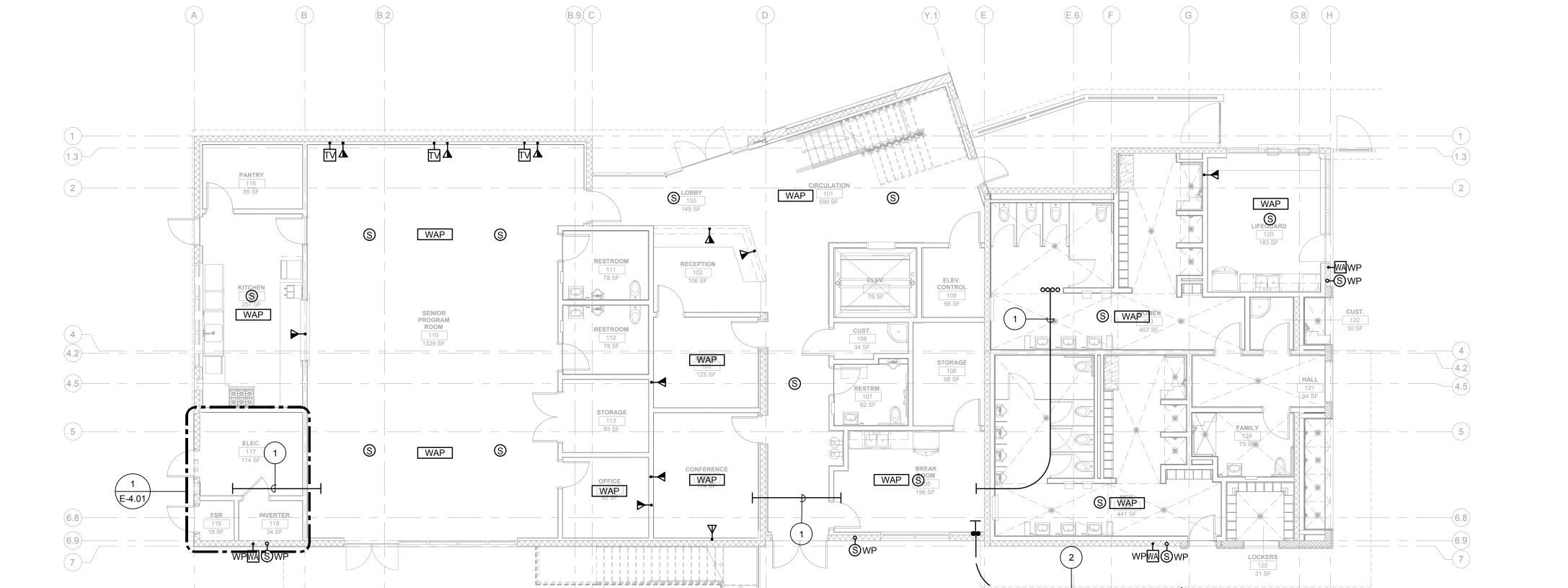
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 DRAWN BY
 SR
 08/07/2023
 DATE

DIRECTOR OF PUBLIC WORKS

SHT. 10 OF 12 DWG. NO. 5-2606



BUILDING FIRST FLOOR TELECOM PLAN SCALE: 1/8"=1'-0" 1

TELECOM GENERAL NOTES:

KEY NOTES

AND CONTINUATION.

(1) 2"C. (TELECOM.) & (3) 2"C.O. (ACCESS, SECURITY & CCTV) PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, SEE E-3.01.

2 LOW VOLTAGE CONDUIT TO POOL BUILDING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, REFER TO NOTE #5 ON E-1.01 FOR QUANTITIES, SIZE

- ALL WALL MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL ROOM ELEVATIONS PRIOR TO ROUGH-IN. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED WITH AN APPROVED FIRE STOP SYSTEM EQUAL TO OR GREATER THAN THE
- ALL DEVICES MOUNTED BACK-TO-BACK ON COMMON WALLS SHALL BE INSTALLED IN SEPARATE BOXES OFFSET 24-INCHES MINIMUM OR PROVIDED
- WITH PUTTY OR ANOTHER APPROVED SOUNDPROOF BACKING.
- WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS EXIST, CONTRACTOR SHALL PROVIDE:
- A. ALL CONDUITS SHALL BE ROUTED PARALLEL TO BUILDING STRUCTURES AND RACKED NEATLY IN GROUPS OF MULTIPLE
- PATHWAYS.

RATING OF THE WALL BEING PENETRATED.

- B. ALL LOW VOLTAGE CABLES SHALL BE:
 - 1) INSTALLED IN EMT CONDUIT PATHWAYS OR INSTALLED NEATLY IN CABLE MANAGEMENT OPEN BASKET OR LADDER TYPWIREWAY SUPPORTED INDEPENDENTLY FROM STRUCTURE ABOVE.
- EXPOSED LOW VOLTAGE CABLING IN OPEN TYPE CEILING APPLICATIONS INSTALLED ON D-RINGS, J-HOOKS OR SIMILAR APPARATUS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY ARCHITECT/OWNER PRIOR TO ANY ROUGH-IN OR INSTALLATION. CONTRACTOR SHALL INCLUDE AN ALLOWANCE IN HIS BASE BID FOR THE INSTALLATION OF LOW VOLTAGE CABLES IN OPEN CEILING AS DESCRIBED.
- EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL BE LISTED FOR SUCH ENVIRONMENT AND INSTALLATION SHALL CONFORM TO NEC OR CEC WHERE ADOPTED ARTICLE 300.22(C).
- 6. COORDINATE LOCATION OF ALL TELECOM DEVICE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL TELECOM DEVICE OUTLET BOXES AND CONDUIT SHALL BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR, REFER TO E-3.01.

REVISIONS

CITY OF GARDENA DEPARTMENT OF PUBLIC WORKS - ENGINEERING 08-16-2023 COMMUNITY AQUATICS & SENIOR CENTER

INITAL DATE APPROVED BY: DESIGNED BY SR 08/07/2023

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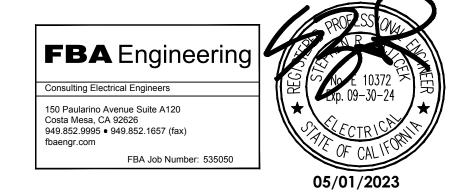
SHT. 11 OF 12 DWG. NO. 5-2606 DIRECTOR OF PUBLIC WORKS

AT LEAST TWO DAYS BEFORE YOU DIG UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

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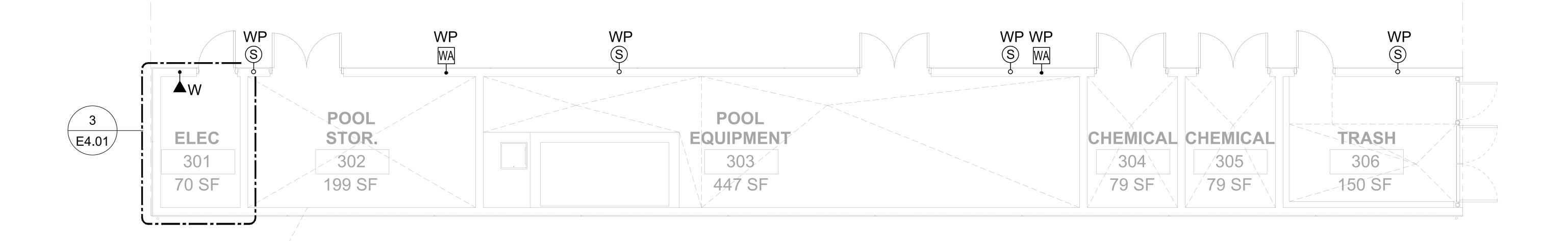
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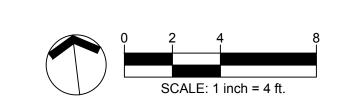












POOL BUILDING TELECOM PLAN | SCALE: 1/4"=1'-0"

- TELECOM GENERAL NOTES:
- 2. PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE PROTECTED WITH

ALL WALL MOUNTED DEVICE HEIGHTS SHALL BE VERIFIED WITH ARCHITECTURAL ROOM ELEVATIONS PRIOR TO ROUGH-IN.

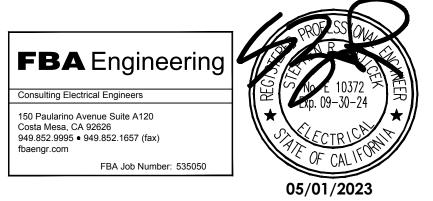
- AN APPROVED FIRE STOP SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE WALL BEING PENETRATED.
- ALL DEVICES MOUNTED BACK-TO-BACK ON COMMON WALLS SHALL BE INSTALLED IN SEPARATE BOXES OFFSET 24-INCHES MINIMUM OR PROVIDED WITH PUTTY OR ANOTHER APPROVED SOUNDPROOF BACKING.
- WHEN EXPOSED CEILING OR OPEN GRID CONDITIONS EXIST, CONTRACTOR
- SHALL PROVIDE:
- A. ALL CONDUITS SHALL BE ROUTED PARALLEL TO BUILDING STRUCTURES AND RACKED NEATLY IN GROUPS OF MULTIPLE PATHWAYS.
- B. ALL LOW VOLTAGE CABLES SHALL BE:
 - 1) INSTALLED IN EMT CONDUIT PATHWAYS OR
 - INSTALLED NEATLY IN CABLE MANAGEMENT OPEN BASKET OR LADDER TYPWIREWAY SUPPORTED INDEPENDENTLY FROM STRUCTURE ABOVE.
- EXPOSED LOW VOLTAGE CABLING IN OPEN TYPE CEILING APPLICATIONS INSTALLED ON D-RINGS, J-HOOKS OR SIMILAR APPARATUS WILL NOT BE ACCEPTED UNLESS APPROVED IN WRITING BY ARCHITECT/OWNER PRIOR TO ANY ROUGH-IN OR INSTALLATION. CONTRACTOR SHALL INCLUDE AN ALLOWANCE IN HIS BASE BID FOR THE INSTALLATION OF LOW VOLTAGE CABLES IN OPEN CEILING AS DESCRIBED.
- EXPOSED CABLE/CONDUCTORS INSTALLED IN A PLENUM SPACE SHALL BE LISTED FOR SUCH ENVIRONMENT AND INSTALLATION SHALL CONFORM TO
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CITY OF GARDENA REVISIONS DEPARTMENT OF PUBLIC WORKS - ENGINEERING DATE APPROVED 08-16-2023 POOL BUILDING TELECOM PLAN COMMUNITY AQUATICS & SENIOR CENTER

INITAL DATE APPROVED BY: DESIGNED BY SR 08/07/2023
 DRAWN BY
 SR
 08/07/2023
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 BZ
 08/07/2023
 SHT.
 DIRECTOR OF PUBLIC WORKS SHT. 12 OF 12 DWG. NO. 5-2606