UNITED STATES POSTAL SERVICE

Solicitation
Solicitation Amendment

1. Amendment Number A01 to Solicitation Number 360070-22-A-0023	Date 08/17/2022

2a. Facility DAVENPORT, FL - MAIN OFFICE	2b. Project E54635 Building and Parking Expansion
3a. Offeror Name and Address	3b. Issued By EASTERN FCCMT 7029 ALBERT PICK RD GREENSBORO, NC 27409-9521
	3c. Contact NIKHIL SONI NIkhil.Soni@usps.gov

4. The above numbered solicitation is amended as set forth in Block 5.
Note: Offerors must acknowledge receipt of this amendment prior to the date and time specified in the solicitation by one of the following methods:
a. By signing and returning one copy of the amendment;
b. By acknowledging receipt of this amendment on each copy of the offer submitted; or
c. By submitting a separate letter or telegram which includes a reference to the solicitation and amendment numbers.

FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE SPECIFIED IN THE SOLICITATION PRIOR TO THE DATE AND TIME SPECIFIED FOR RECEIPT OF OFFERS MAY RESULT IN REJECTION OF YOUR OFFER.
If by virtue of this amendment, you desire to change an offer already submitted, such change may be made by telegram or letter provided such telegram or letter makes reference to the solicitation and amendment numbers, and is received prior to the date and time specified.
The date and time specified for receipt of offers is:

5. Description of Amendment:

Amendment A01 serves to provide the following:

- Pre-Proposal Meeting minutes (Attached)
- Revised Offer and Award Page (Please use this page with your proposal) (Attached)
- Changes to Specifications (Changes to Alternates) (Attached)
- Changes to Drawings (Attached)
- Response to Supplier Questions (Attached)

All other terms and conditions remain unchanged.

6. Contractor Signature	Date Signed	U. S. Postal Service Signature	Date Signed
		Nikhil Soni Digitally signed by Nikhil Soni Date: 2022.08.17 11:22:25 -04'00'	

Name of person authorized to sign	Contracting Officer NIKHIL SONI

UNITED STATES POSTAL SERVICE

Offer and Award
Fixed Price Construction

Facility DAVENPORT, FL - MAIN OFFICE	Project Building and Parking Expansion		
1. Contract Number	2. Solicitation Number 360070-22-A-0023	3. Project # E54635	4.Socio/Economic
5.a. Issued by EASTERN FCCMT 7029 ALBERT PICK RD GREENSBORO, NC 27409-9521	5.b. For Information call *(No Collect Calls)* NIKHIL SONII Nikhil.Soni@usps.gov		
6.a. Offeror/Contractor	b. Contact Name: c. Telephone No: d. Fax Number: e. Email Address f. TIN: g. Parent TIN | Location: TIN = Taxpayer Identification Number		

h. Remittance Name and/or Address: (if different from above)

7. Delivery/Performance Requirements

See Section B

8. Items & Prices/General Description Requirement

All material, labor, tools, plant, supplies, equipment, transportation, superintendence, temporary construction of every nature, and all other services and facilities necessary for expansion of the building and the parking lot, in accordance with USPS approved specifications and drawings. This is a USPS-owned facility.

Alternate Number 1: State the amount to be DEDUCTED for all work related to the Platform Expansion Scope of Work as indicated in the Construction Documents.

Deduct: _____ dollars

Alternate Number 2: Alternate Number 2: Area "A" Parking to Remain as is – No Modifications required

Deduct: XXX_____ dollars.

Alternate Number 3: State the amount to be DEDUCTED for all work related to the Lightning Protection System to be incorporated on the Existing Building and the Building Expansion.

Deduct: _____ dollars.

Total: $ _____ in words _____

Performance Time in Calendar Days: **300**

9. Optional Provisions/Clauses listed below are applicable to this contract:

10. Billing Instructions (Submit Invoices To)
Jose Blanco Architects
8260 SW 97 St
Miami, FL 33156

11. Contractor Signature:	Date:	12. US Postal Service Signature	Date:
Name of Person Authorized to sign		Name of Contracting Officer THOMAS M PIO	

SECTION 012300

ALTERNATES

PART 1 – GENERAL

1.1 SUMMARY

A. Section includes: Alternates to be submitted to U.S. Postal Service with Proposal.
   1. Submission procedures.
   2. Documentation of changes to Contract Sum/Price and Contract Time.

B. Related Documents: The Contract Documents, as defined in Section 011004 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other documents.

1.2 DEFINITIONS

A. Alternate: The net amount to be added to or deducted from the Base Proposal Price for work identified in Schedule of Alternates.

1.3 SUBMISSION REQUIREMENTS

A. Extent of Alternates:
   1. Determine the full extent of Work affected by proposed Alternates.
   2. Coordinate related work and modify surrounding work to integrate the Work of each Alternate.
      a. Include as part of each Alternate, miscellaneous devices, accessory objects and similar items incidental to or required for a complete installation whether or not mentioned as part of the Alternate.

B. Submission Form: Complete Schedule of Alternates below and attach to Proposal.
   1. Substitutions are permitted unless prohibited by a relevant specification section for that product or material. Submit a request for substitution for any manufacturer not named in accordance with Section 016000 - Product Requirements.

C. Schedule: The Alternates consist of the items included, or attached and incorporated by reference in Section B, The Contract, B. 1500 Attachments. Specification Sections referenced in the Schedule contain requirements for materials and methods necessary to achieve the Work described under each Alternate.
   1. Alternates describe environmental requirements.
   2. Conform to Contract Documents for requirements for performance, appearance, workmanship and materials not modified under the Alternate Bids.

1.4 SELECTION AND AWARD OF ALTERNATES

A. Acceptance or Rejection: Alternates quoted on Schedule of Alternates and attached to Proposal will be reviewed and accepted or rejected at the USPS's option. None, any, or all Alternates may be accepted or rejected by U.S. Postal Service.

B. Accepted Alternates will be identified in the Contract.

C. Some Alternates and respective pricing will survive the Contract and will remain valid for the period stated in the Schedule of Alternates below.

1.5 SCHEDULE OF ALTERNATES

A. **Alternate Number 1**: State the amount to be DEDUCTED for all work related to the Platform Expansion Scope of Work as indicated in the Construction Documents.

Deduct:_____dollars.

B. **Alternate Number 2**: **Area "A" Parking to Remain as is – No Modifications required**

Deduct:_____dollars.

C. **Alternate Number 3**: State the amount to be DEDUCTED for all work related to the Lightning Protection System to be incorporated on the Existing Building and the Building Expansion.

Deduct:_____dollars.

PART 2 – PRODUCTS

NOT USED

PART 3 – EXECUTION

NOT USED

END OF SECTION

USPS Specification issued: 10/1/2021
Last revised: 9/16/2015

Pre – Proposal Meeting Sign – In Sheet Davenport MPO – Building & Parking Expansion			
Pre – Bid Conference 08/10/22 1:00 P,M..			USPS Proj. No. – FMS E54635
NAME	COMPANY	PHONE	EMAIL
Jose E. Blanco	Term A/E	305-205-1813	blancoarchitects@att.net
Grant D. Baker	USPS Proj. Manager	904-783-7287	grant.d.baker@usps.gov
Joe Pena	Lunacon Const.	722-571-1725	jpena@lunaconcorp.com
Andrew Hunt	Wilson & Comp	407-421-4408	andrewhunt@wilsoncompany.net
Rick Salmon	Wilson & Comp	407-404-2193	ricksalmon@wilsoncompany.net
Rex Fordham	Epic Construction	321-482-9662	rex@epicfla.com
Craig Clark	Clark Electrical	407-312-1168	Cclark23@cfl.it.com
Bob Connelly	R.A. Connelly, Inc.	941-773-5358	bob@raconnellyinc.com
Ivan Sanchez	Centerra IS	407-625-2509	Ivan.sanchez@constellis.com
Todd Stanislaus	Rose Paving	813-521-2903	
Mike Kampschnieder	Rose Paving	813-521-2903	Mike.kampschnieder@rosepaving.com

Pre-Proposal Conference Notes.
Davenport MPO Building & Parking Expansion
August 10, 2022 – 1:00 PM

Items of Discussion:

- Grant Baker is USPS Project Manager and reviewed general contract issues, requirements and USPS information vehicle thru the COUPA Platform for eSourcing.

- Scope of Work reviewed to include:
  - Building Workroom Expansion along west side of existing building
  - Building Platform Expansion along northeast corner
  - Parking Expansion south, west and north of Workroom Expansion
  - Customer Parking reconfiguration for Employee – Customer separation
  - Storm Water retention area expansion

- Solicitation to include pricing for all improvements as shown with (3) deductive alternates as follows:
  - Platform Expansion
  - Customer Parking reconfiguration
  - Lightning Protection System

- An Amendment is being prepared for new information obtained since solicitation has gone out. This to include information relative to the local Power Company, Phasing of the work between expansion & existing building and parking changes.

- Existing double wide trailer to be removed or relocated by USPS and not part of this contract. USPS is exploring relocating carriers to Haynes City MPO to allow for removal double wide from work area.

- Construction personnel to park in green areas north of Workroom expansion. Parking in customer lot will not be possible as lot is in full use between customer and employee.

- Irrigation System is in-operable. Follow notes in Construction Documents for instructions.

- Flooring within existing PO Box Lobby areas to be converted to workroom require removal of existing tile, providing a leveling compound and installing Resilient Floor Tile as indicated in Detail 1/A0.01.

- Work required within the existing facility for cabling, etc. to be coordinated with management for when Carriers are not in the building or for when the least disruption to operation can be achieved.

- It is expected that the Workroom Expansion will take place first to a substantial completion to allow all existing carrier casework to be relocated prior to any work within the existing building be conducted.

- All were encouraged to submit RFI's as soon as possible to allow adequate time for responses.

- A walk around of all the work areas was conducted to allow all parties to document, photograph and ask questions.

1

100% DESIGN

PROPOSED BUILDING & PARKING EXPANSION

DAVENPORT MAIN POST OFFICE

1 SOUTH BLVD., E.
DAVENPORT, Florida 33837

MEDIUM STANDARD BUILDING DESIGN

PROJECT NUMBER: E54635
DATE: 06 / 16 / 22
ISSUED FOR: 100% DESIGN

UNITED STATES POSTAL SERVICE®

ARCHITECT

JOSE E. BLANCO - ARCHITECT, P.A.
2673 SW 14th COURT
DEERFIELD BEACH, FLORIDA 33442
305-205-1813

CIVIL

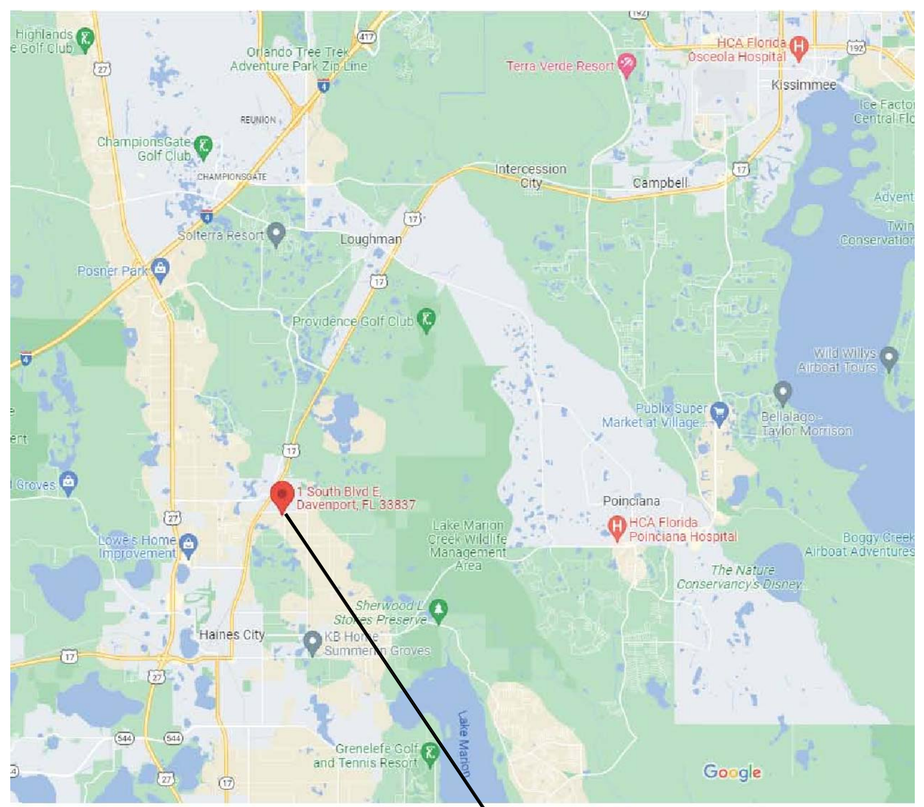
ADVANTAGE ENGINEERING, INC.
3914 Flatiron Loop #102
Wesley Chapel, Florida 33544
813-975-9638

STRUCTURAL ENGINEER

T.C. ENGINEERING
10544 NW 26th STREET, SUITE E-204
Doral Florida 33172
Tel: 305-261-0321

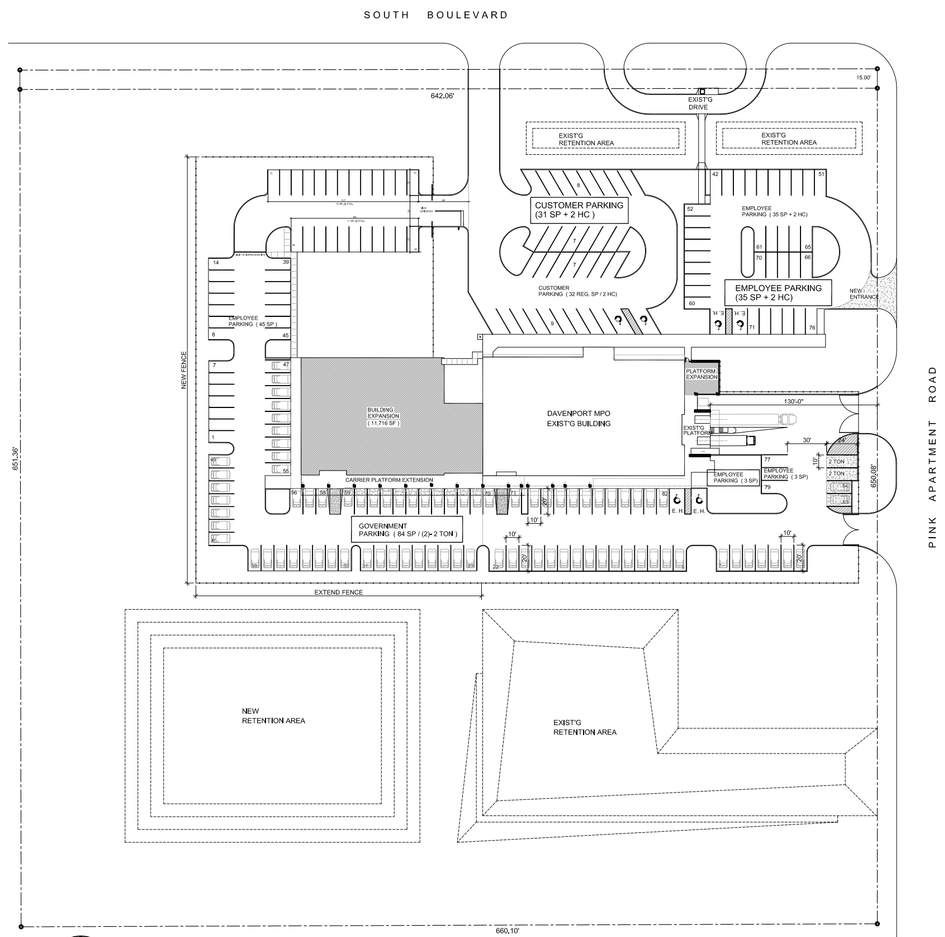
MECHANICAL/ELECTRICAL/PLUMBING

ESI CONSULTING ENGINEERS, INC.
1315 NW 98th Court, Unit #15
Doral, Florida 33172
TELEPHONE: 305-418-9177



PROJECT LOCATION

LOCATION MAP



LOCALITY MAP

INDEX OF DRAWINGS

JOSE E. BLANCO - ARCHITECT
ARCHITECTURE / PLANNING / FLA. REG. 10013
2673 SW 14th CT.
DEERFIELD BEACH, FLORIDA 33442
(305) 205-1813
eMail: blancoarchitect@att.net

BUILDING & PARKING EXPANSION
DAVENPORT MPO
1 SOUTH BLVD. E.
DAVENPORT, FLORIDA 33837

UNITED STATES POSTAL SERVICE.

Revisions: 1 08/12/22 AMENDMENT #1

A0.00

Scale: NOTED
Project: 21-23
Date: 06/16/22
USPS File Number: E54635

DOOR SCHEDULE

		LOCATION	DOOR SIZE (W x H)	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	DETAILS HEAD	DETAILS JAMB	DETAILS THRESHOLD	WEATHERSTRIP	THRESHOLD	FIRE RATING	SIGNAGE (NOTE1)	HARDWARE	REMARKS
EXIST'G BLDG.	401B	EXIST'G TO EXTERIOR - EMERGENCY EXIT	3'-0" x 7'-0"	D	HM	PT	HM	PT	EXIST'G	EXIST'G	EXIST'G	X	X		X		ADD CRASH BAR W/ AUDIBLE ALARM
	412A	CV PERSONNEL DOOR EXIT TO EXTERIOR	3'-0" x 7'-0"	D	HM	PT	HM	PT	4/A8.02	4/A8.02	9/A8.02	X	X		X	9	
	412B	CV IMPACT DOOR EXIT TO EXTERIOR	6'-0" x 7'-0"	E	PL	FF	ST	PT	8/A8.03	8/A8.03	8/A8.02					10	
	412C	CV IMPACT DOOR ENTRY FROM EXTERIOR	6'-0" x 7'-0"	E	PL	FF	ST	PT	8/A8.03	8/A8.03	8/A8.02					10	
	412D	CV PERSONNEL DOOR EXIT FROM WORKROOM	3'-0" x 7'-0"	D	HM	PT	HM	PT	4/A8.02	4/A8.02	8/A8.02					6	
	412E	CV IMPACT DOOR EXIT FROM WORKROOM	6'-0" x 7'-0"	E	PL	FF	ST	PT	1/A8.03	1/A8.03	8/A8.02					10	
	412F	CV IMPACT DOOR ENTRY TO WORKROOM	6'-0" x 7'-0"	E	PL	FF	ST	PT	1/A8.03	1/A8.03	8/A8.02				X	10	
BLDG. EXPANSION	401C	WORKROOM TO EXTERIOR - EMERGENCY	3'-0" x 7'-0"	A	HM	PT	HM	PT	4/A8.02	4/A8.02	9/A8.02	X	X			23	
	413A	CV PERSONNEL DOOR EXIT TO EXTERIOR	3'-0" x 7'-0"	D	HM	PT	HM	PT	4/A8.02	4/A8.02	9/A8.02	X	X		X	9	
	413B	CV IMPACT DOOR EXIT TO EXTERIOR	6'-0" x 7'-0"	E	PL	FF	ST	PT	8/A8.03	8/A8.03	8/A8.02					10	
	413C	CV IMPACT DOOR ENTRY FROM EXTERIOR	6'-0" x 7'-0"	E	PL	FF	ST	PT	8/A8.03	8/A8.03	8/A8.02					10	
	413D	CV PERSONNEL DOOR EXIT FROM WORKROOM	3'-0" x 7'-0"	D	HM	PT	HM	PT	4/A8.02	4/A8.02	8/A8.02					6	
	413E	CV IMPACT DOOR EXIT FROM WORKROOM	6'-0" x 7'-0"	E	PL	FF	ST	PT	1/A8.03	1/A8.03	8/A8.02					10	
	413F	CV IMPACT DOOR ENTRY TO WORKROOM	6'-0" x 7'-0"	E	PL	FF	ST	PT	1/A8.03	1/A8.03	8/A8.02					10	
	601A	LUNCHROOM	3'-0" x 7'-0"	C	HM	PT	HM	PT	3/A8.02	3/A8.02	7/A8.02					6	
	605A	WOMEN RESTROOM	3'-0" x 7'-0"	A	HM	PT	HM	PT	3/A8.02	3/A8.02	6/A8.02					5	
	606A	MEN RESTROOM	3'-0" x 7'-0"	A	HM	PT	HM	PT	3/A8.02	3/A8.02	6/A8.02					5	
	613	MECH/ELECT RM TO EXTERIOR	3'-0" x 7'-0"	A	HM	PT	HM	PT	4/A8.02	4/A8.02	9/A8.02	X	X			21	
	613A	MECH/ELECT. TO WORKROOM	(2) 3'-0" x 7'-0"	A	HM	PT	HM	PT	3/A8.02	3/A8.02	7/A8.02				X	25	
	C101	CIO ENTRY FROM EXTERIOR	3'-0" x 7'-0"	G	HM	PT	HM	PT	4/A8.02	4/A8.02	9/A8.02	X	X			20	
	C101A	CIO EXIT TO WORKROOM	3'-0" x 7'-0"	H	HM	PT	HM	PT	3/A8.02	3/A8.02	7/A8.02					19	
PLATFORM EXPANSION	503	GATE TO PUBLIC SIDE FROM PLATFORM EXPANSION															

ROOM FINISH SCHEDULE

	ROOM	ROOM NAME	FLOOR	BASE	WALL NORTH MATERIAL	WALL NORTH COLOR	WALL EAST MATERIAL	WALL EAST COLOR	WALL SOUTH MATERIAL	WALL SOUTH COLOR	WALL WEST MATERIAL	WALL WEST COLOR	CEILING MATERIAL	CEILING HEIGHT	REMARKS
EXIST'G BLDG.	401A	EXIST'G WORKROOM	EXIST'G	VB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	EXIST'G	EXIST'G	
	401B	WORKROOM	VCT	VB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	ACT-1	10'-0"	
	412	CARRIER VESTIBULE #1	VCT	VB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	ACT-1	9'-0"	
BLDG. EXPANSION	401C	WORKROOM	S.C.	VB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	OPEN	OPEN	
	413	CARRIER VESTIBULE #2	S.C.	VB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	ACT-1	9'-0"	
	414	CARRIER PLATFORM	S.C.	NONE									ALUM	10'-0"	
	601A	LUNCHROOM	RFT-1	VB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	ACT-1	9'-0"	
	605A	WOMEN RESTROOM	EPOXY	EPOXY	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	ACT-1	8'-0"	
	606A	MEN RESTROOM	EPOXY	EPOXY	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	ACT-1	8'-0"	
	613	MECH. / ELECT. RM.	S.C.	VB-1	GWB	P-1	GWB	P-1	GWB	P-1	GWB	P-1	OPEN	OPEN	
	C101	CIO OFFICE	RFT-1	VB-1	GWB	P-7	GWB	P-7	GWB	P-7	GWB	P-7	ACT-1	9'-0"	
PLATFORM EXPANSION	503	PLATFORM	S.C.												

ROOM FINISH NOTES:

NOTE 1: 4'X8' FRP PANELS ON TWO WALLS BEHIND THE JANITOR SINK.
NOTE 2: INSTALL MOISTURE RESISTANT GWB
NOTE 3: SEE DETAIL 1/A0.01 FOR ADDITONAL COLOR AND MATERIAL SELECTIONS

ABBREVIATIONS

ACT: ACOUSTICAL CEILING TILE
GWB: GYPSUM BOARD
P: PAINT
RFT: RESILIENT FLOOR TILE
S.C.: SEALED CONCRETE
T: CERAMIC OR PORCELAIN TILE
VB: VINYL BASE

SYMBOLS

CROSS SECTION CUT (G / DETNO / SHT)

WALL SECTION CUT (G / DETNO / SHT)

DETAIL KEY (1 / DETNO / SHT)

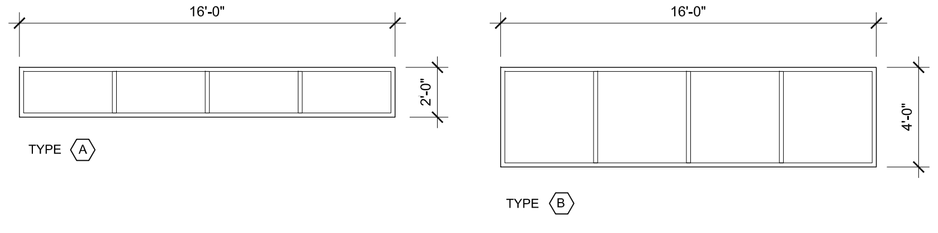
ELEVATION KEY (1 / 2 / 3 / 4 / G / DETNO / SHT)

CASEWORK TYPE:
REFER TO SPECIFICATION SECTION 12359 FOR ADDITIONAL INFORMATION
ITEM NUMBER:
THIS IS A PLAN REFERENCE NUMBER UTILIZED IN LOCATING A SPECIFIC FIXTURE NIC = NOT IN CONTRACT, USPS FURNISHED AND INSTALLED.
(C201 / 1)

EQUIPMENT TYPE:
REFER TO SPECIFIATION SECTION 01110 FOR ADDITIONAL INFORMATION
ITEM NUMBER:
THIS IS A PLAN REFERENCE NUMBER UTILIZED IN LOCATING A SPECIFIC FIXTURE NIC = NOT IN CONTRACT, USPS FURNISHED AND INSTALLED.
(E301 / 1)

- COLUMN GRID IDENTIFICATION (X)
- +0'-0" A.F.F. — ELEVATION SYMBOL
- DOOR SCHEDULE SYMBOL (X)
- FIRE EXTINGUISHER CABINET
- P-1 — FINISH TYPE
- PARTITION TYPE
- ROOM NAME (X) — ROOM NAME
- WINDOW TYPE (XX)
- EXIT SIGN
- DIRECTIONAL EXIT SIGN
- 1'X4' LIGHTING FIXTURE
- 2'X4' LIGHTING FIXTURE
- 2'X2' LIGHTING FIXTURE
- 4' LIGHTING FIXTURE
- 4' STRIP LIGHT
- LAY-IN PARABOLIC LOUVER
- TRACK LIGHTING
- XP — EXPLOSION PROOF LIGHT FIXTURE
- DOWNLIGHT
- WALL WASHER
- ACRYLIC PANEL FOR CCTV CEILING CAMERA
- SPRINKLER HEAD
- 2'X4' LAY-IN CEILING TILE
- 2'X2' LAY-IN CEILING TILE
- HVAC RETURN AIR GRILLE
- HVAC SUPPLY AIR GRILLE
- MENU BOARD
- TENSOR TAPE

WINDOW TYPES



WINDOW SCHEDULE

U VALUE = 1.00
SHGC = 0.50

WINDOW TYPE	TYPE	SIZE WIDTH - HEIGHT	GLASS TYPE	GLASS THK.	FRAME TYPE	FRAME MAT'L.	FRAME FIN.	DETAILS JAMB	DETAILS HEAD	DETAILS SILL	N.O.A.	REMARKS
A	FIXED GL.	16'-0" x 2'-0"	* CLEAR	**	AL.	AL.	CLR ANOD					* w/ LOW-E TINT
B	FIXED GL.	16'-0" x 4'-0"	* CLEAR	**	AL.	AL.	CLR ANOD					* w/ LOW-E TINT

WINDOW NOTES:

1. EXTERIOR WINDOWS SHALL BE IMPACT GLASS WITH MIAMI DADE COUNTY PRODUCT APPROVAL AND SHALL BE SUBMITTED UNDER SEPARATE PERMIT.
2. CONTRACTOR TO VERIFY W/ WINDOW MANUF. FOR REINFORCING BETWEEN WINDOW UNITS.
3. ALL WINDOWS TO HAVE SQUARE BEADS
4. ALL IMPACT GLASS THICKNESS SHALL COMPLY WITH NOA. CONTRACTOR TO PROVIDE GLASS COLOR SAMPLES FOR ARCHITECT APPROVAL.
5. CONTRACTOR TO VERIFY AND COORDINATE WITH WINDOW MANUFACTURER ALL WINDOW ROUGH OPENING REQUIREMENTS PRIOR TO PLACING AN ORDER. CONTACT ARCHITECT IN CASE OF ANY DISCREPANCIES.
6. FINISH ON ALL ALUMINUM DOORS AND WINDOWS SHALL MATCH EXISTING ANODIZED FINISH
7. BREAK METAL TO BE INSTALLED AT CORNER, AND INTERMEDIATE CONDITIONS. FINISH TO MATCH ALUMINUM WINDOWS AND DOORS
8. PROVIDE CLEAR, LOW-E TINTED GLASS

STANDARD NOTES

A. GENERAL CONDITIONS:

A. COORDINATION: THE STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS ARE SUPPLEMENTARY TO THE ARCHITECTURAL DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK AND COORDINATE ALL THE DRAWINGS BEFORE FABRICATION AND/OR INSTALLATION OF ANY WORK. CONTRACTOR SHALL IMMEDIATELY NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES OR ERRORS.

B. FIELD VERIFICATION: PRIOR TO SCHEDULING OF WORK AND COMMENCING CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN. CONTRACTOR SHALL NOTIFY CONTRACTING OFFICER OF ANY OMMISSIONS OF EQUIPMENT OR MATERIALS ON DRAWINGS.

C. LEGEND: ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS ANY QUESTIONS REGARDING THE SAME OR THEIR EXACT MEANING, CONTRACTING OFFICER SHALL BE NOTIFIED FOR CLARIFICATION.

D. PRECEDENCE: DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALE. LARGER SCALE DRAWINGS HAVE PRECEDENCE OVER SMALLER SCALE DRAWINGS. SPECIFICATIONS AND GENERAL NOTES TAKE PRECEDENCE OVER DRAWINGS.

E. FRAMING: CONTRACTOR SHALL PROVIDE ALL REQUIRED BLOCKING, BACKING, FRAMING, HANGERS, OR OTHER SUPPORT AS NECESSARY FOR ALL FIXTURES, EQUIPMENT, CABINETRY, FURNISHINGS, AND ALL OTHER ITEMS REQUIRING THE SAME. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH FURNITURE MFGR. AND INSTALLER AND REVIEW SHOP DRAWINGS FOR BACKING, UTILITIES CONNECTION, ETC.

F. ACCESS PANELS: ALL EQUIPMENT SWITCHES, AND VALVES THAT ARE CONCEALED MUST BE PROVIDED WITH ACCESS PANELS.

G. GLASS: ALL GLASS TO CONFORM TO CONSUMER SAFETY COMMISSION, PRODUCT SAFETY ACT 16 CFR 1201.

H. GYPSUM BOARD: ALL GYP. BD. TO BE 5/8" TYPE "X" UNLESS NOTED OTHERWISE. INSTALL M.R. GYP. BD. BEHIND SINKS, IN TOILET, JANITOR, MECHANICAL ROOMS, AND OTHER POTENTIALLY DAMP LOCATIONS.

B. GENERAL ACCESSIBILITY REQUIREMENTS:

A. DOORS SHALL PROVIDE A CLEAR OPENING OF 32" WIDE BY 6'-8" HIGH WHEN AT A 90 DEGREE ANGLE TO THE CLOSED POSITION.

B. THE BOTTOM 10" OF THE DOORS ARE TO HAVE A SMOOTH UNINTERRUPTED SURFACE TO ACCOMODATE OPENING BY WHEEL CHAIR FOOT REST.

C. HARDWARE IS TO BE CENTERED BETWEEN 30 AND 44 INCHES HIGH. DOOR HARDWARE: HANDLES, PULLS, LATCHES, LOCKS, AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING, OR TWISTING OF THE WRIST TO OPERATE. LEVER-OPERATED MECHANISMS, PUSH-TYPE MECHANISMS AND U-SHAPED HANDLES ARE ACCEPTABLE DESIGNS.

D. MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 8.5 POUNDS FOR EXTERIOR DOORS, AND 5 POUNDS FOR INTERIOR DOORS, SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS. WHEN FIRE DOORS ARE REQUIRED, COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE REQUIREMENTS.

E. THRESHOLDS: THRESHOLDS ARE REQUIRED TO BE NO MORE THAN 1/2 INCH HIGH. CHANGES IN LEVEL UP TO 1/4" MAY BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4" & 1/2" SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

RESILIENT FLOOR TILE
RFT-1 ALTRO, 24"x24"x0.08" THICK, 9306 CHARCOAL CD
RFT-2 ALTRO, 24"x124"x0.08" THICK, 9302 ROCK SALT CD
RFT-1 RICKETT, 24"x24"x0.080" THICK, 8806 FLY ASH
RFT-2 RICKETT, 24"x24"x0.080" THICK, 8804 TRIBECA
RFT-1 UPOFLOOR, 24"x24"x0.080" THICK, 619306
RFT-2 UPOFLOOR, 24"x24"x0.080" THICK, 619302
RFT-1 PROCEDO, 24"x24"x0.098" THICK, NORFOLK QNOR (SEE NOTE 2)
RFT-2 PROCEDO, 24"x24"x0.098" THICK, RENO QREN (SEE NOTE 2)

BASE
VB-1 STANDARD 4" WALL BASE, BLACK

EPOXY FLOOR AND WALL COATING
LIGHT GRAY

PAINT (SEE NOTE 1)
P-1 (WHITE) GLIDDEN (ICI) #50YY 83/057
P-2 (LIGHT GRAY) GLIDDEN (ICI): #50BG 62/007
P-3 NOT USED
P-4 (RED) PMS 485 C "POSTAL RED"
P-5 (BLUE) PMS 301 C "POSTAL BLUE"
P-6 (MD. GRAY) SHERWIN WILLIAMS, #SW1232, "DUBLIN GRAY"
P-7 (BLACK) EGGSHELL SEMI-GLOSS BLACK

ACOUSTICAL CEILING TILE & GRID
ACT-1 ARMSTRONG, Fine Fissured #1729, White, 2'x4'x5/8" LAY-IN
CG-1 ARMSTRONG, PRELUDE 15/16" WHITE, EXPOSED TEE SYSTEM CEILING GRID

PLASTIC LAMINATE
PL-1 NEVAMAR, #S-7-27T, TEXTURED FINISH, "SMOKEY WHITE"
PL-2 FORMICA #839-58 "STOP RED"
PL-3 FORMICA, #914-58 "MARINE BLUE"
PL-4 WILSONART, #4142-60, "GREY GLACE"
PL-5 FORBO, WALTON, UNI #186, "LEAD"

SOLID SURFACING
S-1 SAMSUNG STARON "SOLID BRIGHT WHITE"

FIBERGLASS REINFORCED PLASTIC PANELS
FRP STRUCTOGLAS FRP 1207 GRAY OR EQUAL

KEYED NOTES:
1. FINISHES LISTED THE PREFERRED OPTION. ACCEPTABLE ALTERNATES ARE LISTED IN THE APPROPRIATE SPECIFICATION SECTIONS.
2. PROCEDO QUARTZ TILE MAY BE ONLY BE USED AS PART OF THE NAFES ASBESTOS CONTAINMENT SYSTEM.

1 / A0.01 — Detail: USPS STANDARD COLOR + MATERIAL LIST — Fac. | Ch. | Sect. | Para. | Detail: G2-5-1A

CAD File: \USPS\LIBRARY\DETAILS\G2-5-1A.DWG — Scale: SCALE 0 1/2" 1" — USPS SDL Issued: 10/01/2021 — Last Revised: 8/20/2020

1

PHASING REQUIREMENTS

PHASE 1

COMPLETE THE 11,716 SF BUILDING EXPANSION AND NEW PARKING AREAS SURROUNDING THE EXPANSION. UPON SUBSTANTIAL COMPLETION, ALLOW USPS TO USE NEW WORKROOM AND NEW PARKING.

SHOULD DEDUCTIVE ALTERNATE NO.1 BE EXERCISED, THIS MAY ALSO BE CONDUCTED DURING THIS PHASE

PHASE 2

ALL WORK WITHIN THE EXISTING BUILDING AND PARKING AREA "A" MODIFICATIONS UNDER DEDUCTIVE LATERNATE NO.2, SHOULD IT BE EXERCISED.

DEDUCTIVE ALTERNATE

DEDUCTIVE ALTERNATE No.1

PROVIDE A DEDUCTIVE PRICING FOR PLATFORM EXPANSION AS INDICATED IN THE CONSTRUCTION DOCUMENTS.

DEDUCTIVE ALTERNATE No.2

CUSTOMER PARKING TO REMAIN AS IS. - NO MODIFICATIONS

1

DEDUCTIVE ALTERNATE No.3

PROVIDE A DEDUCTIVE PRICING FOR THE LIGHTNING PROTECTION SYSTEM AS INDICATED IN THE CONSTRUCTION DOCUMENTS.

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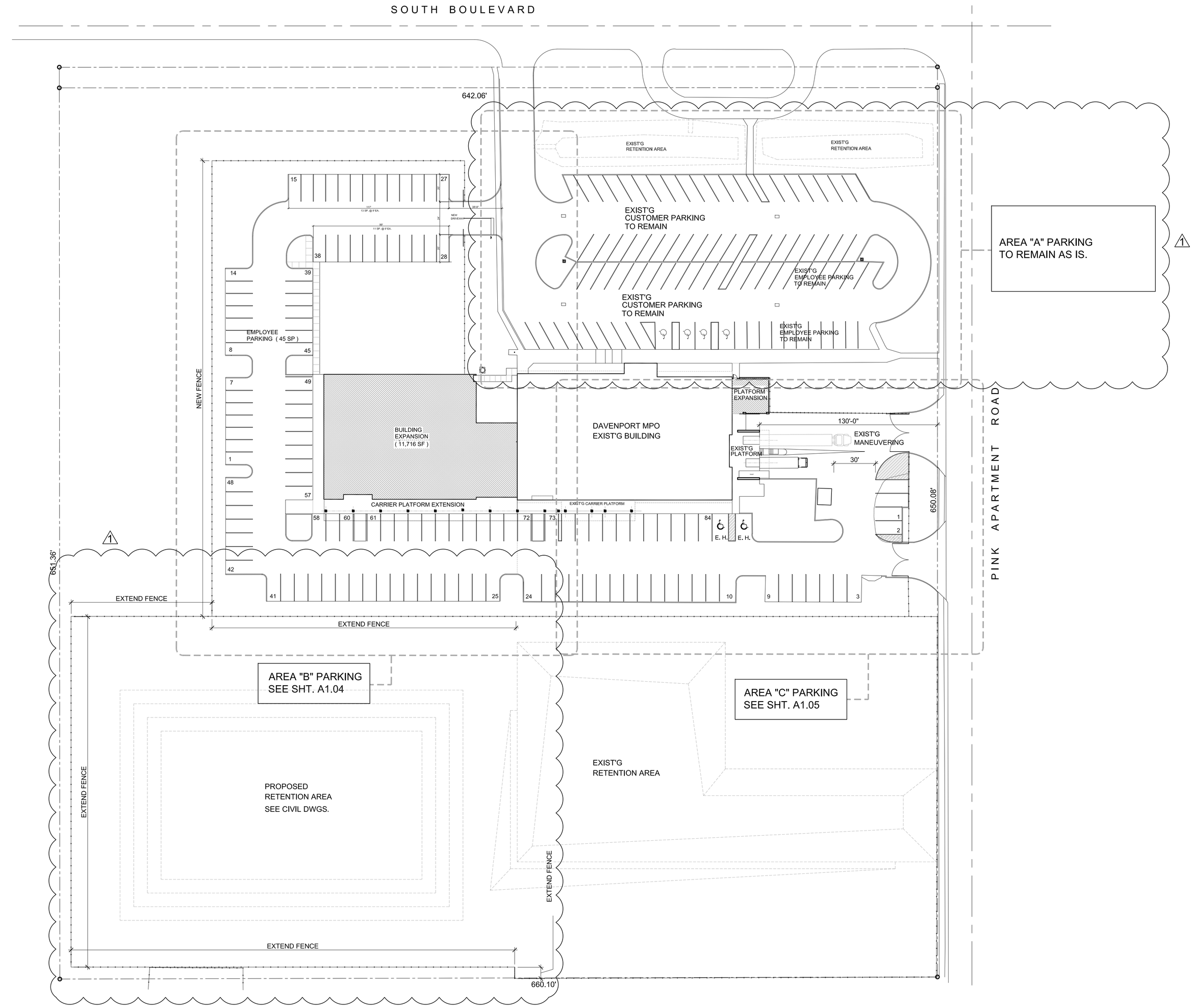
Date: 06/16/22

A0.01

Scale: NOTED
Project: 21-23
USPS File Number: E546835



SITE PLAN - PROPOSED

SCALE: 1" = 40'-0"

0 40 80 120 160 200

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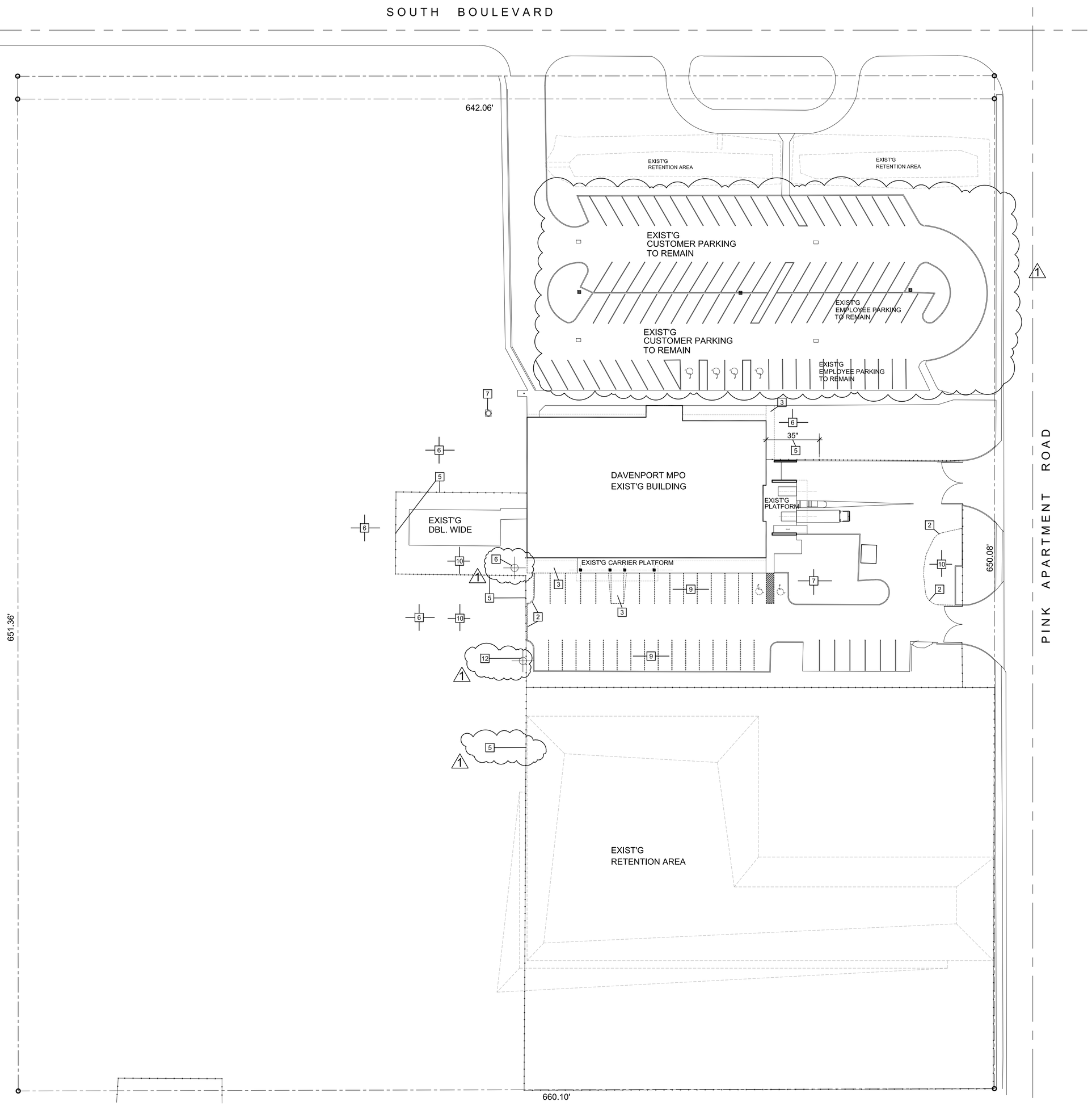
A1.01

Scale: NOTED
Date: 06/16/22
Project: 21-23
USPS File Number: E546635



SITE PLAN - EXISTING DEMOLITION

SCALE: 1" = 40'-0"

0 40 80 120 160 200

SITE DEMOLITION NOTES

1. EXISTING LIGHT POLES AND BASES TO REMAIN.
2. REMOVE EXISTING CONCRETE CURBING
3. REMOVE EXISTING CONCRETE WALKS
4. REMOVE EXISTING ASPHALT PAVING
5. REMOVE EXISTING CHAIN LINK FENCING
6. REMOVE EXISTING TREES AS REQUIRED FOR SCOPE OF NEW WORK. IDENTIFY ON SITE AND COORDINATE WITH ARCHITECT PRIOR TO REMOVAL.
7. EXISTING SEPTIC & DRAINFIELD TO REMAIN. PROTECT FROM CONSTRUCTION ACTIVITIES.
8. REMOVE EXISTING CONCRETE WHEEL STOPS. STORE FOR REUSE OF UNITS WITHOUT ANY DAMAGE. DISCARD DAMAGED UNITS
9. REMOVE EXISTING STRIPING.
10. REMOVE EXISTING GREEN AREAS - COORDINATE W/ CIVIL ENGINEERING FOR NEW PAVED AREAS
11. EXISTING DOUBLE WIDE TRAILER TO BE RELOCATED BY OTHERS. N.I.C.
12. EXISTING TREES TO REMAIN
13. IRRIGATION SYSTEM IS NOT IN WORKING ORDER. DAMAGE TO ANY IRRIGATION LINES TO BE CAPPED.

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A1.02

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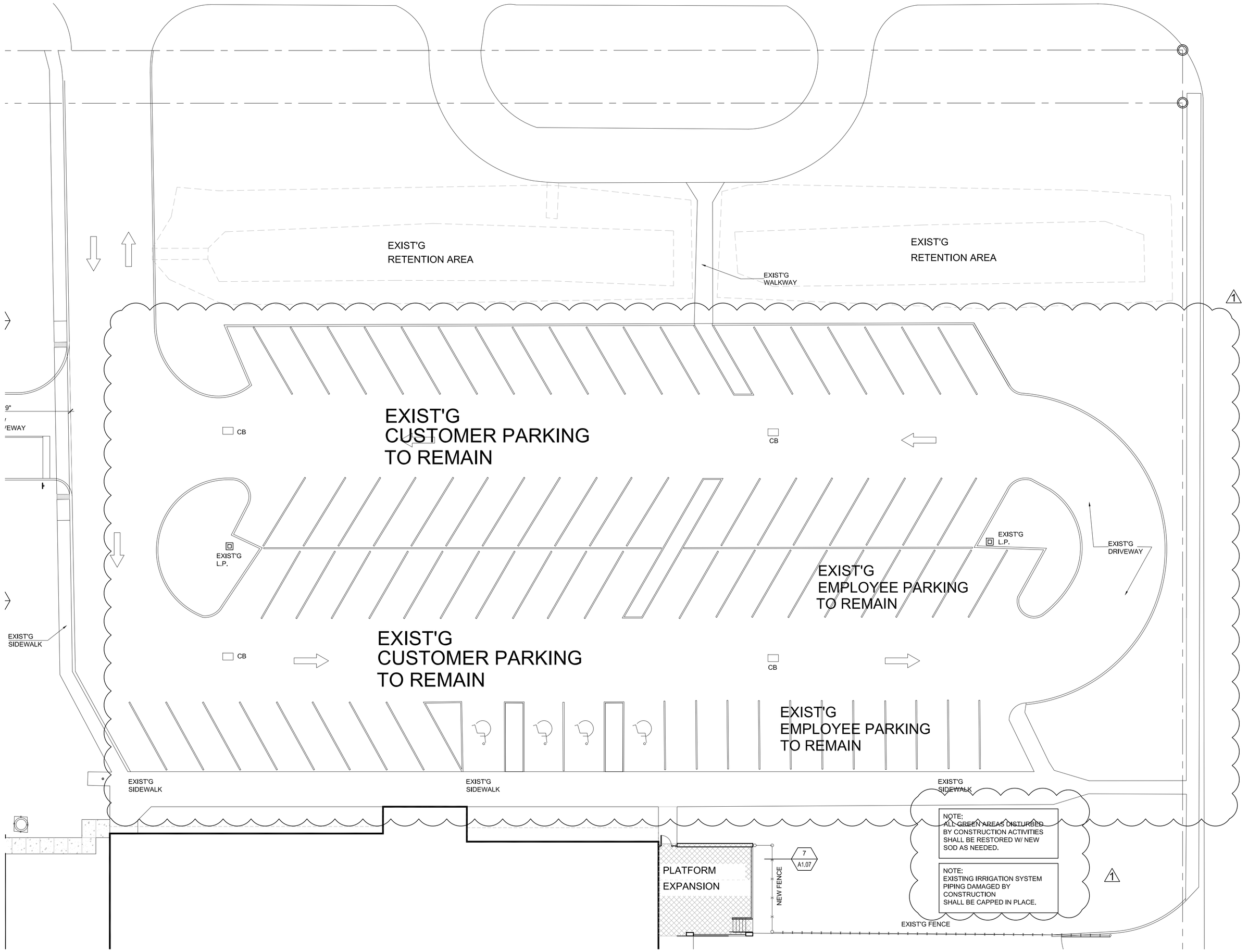
Date: 06/16/22
Project: 2123
USPS File Number: E545635



PARTIAL SITE PLAN - AREA "A"
SCALE: 1/16" = 1'-0"

0 20 40 60

1

NOTE:
ALL AREA "A" PARKING TO REMAIN AS IS.
NO PARKING MODIFICATIONS

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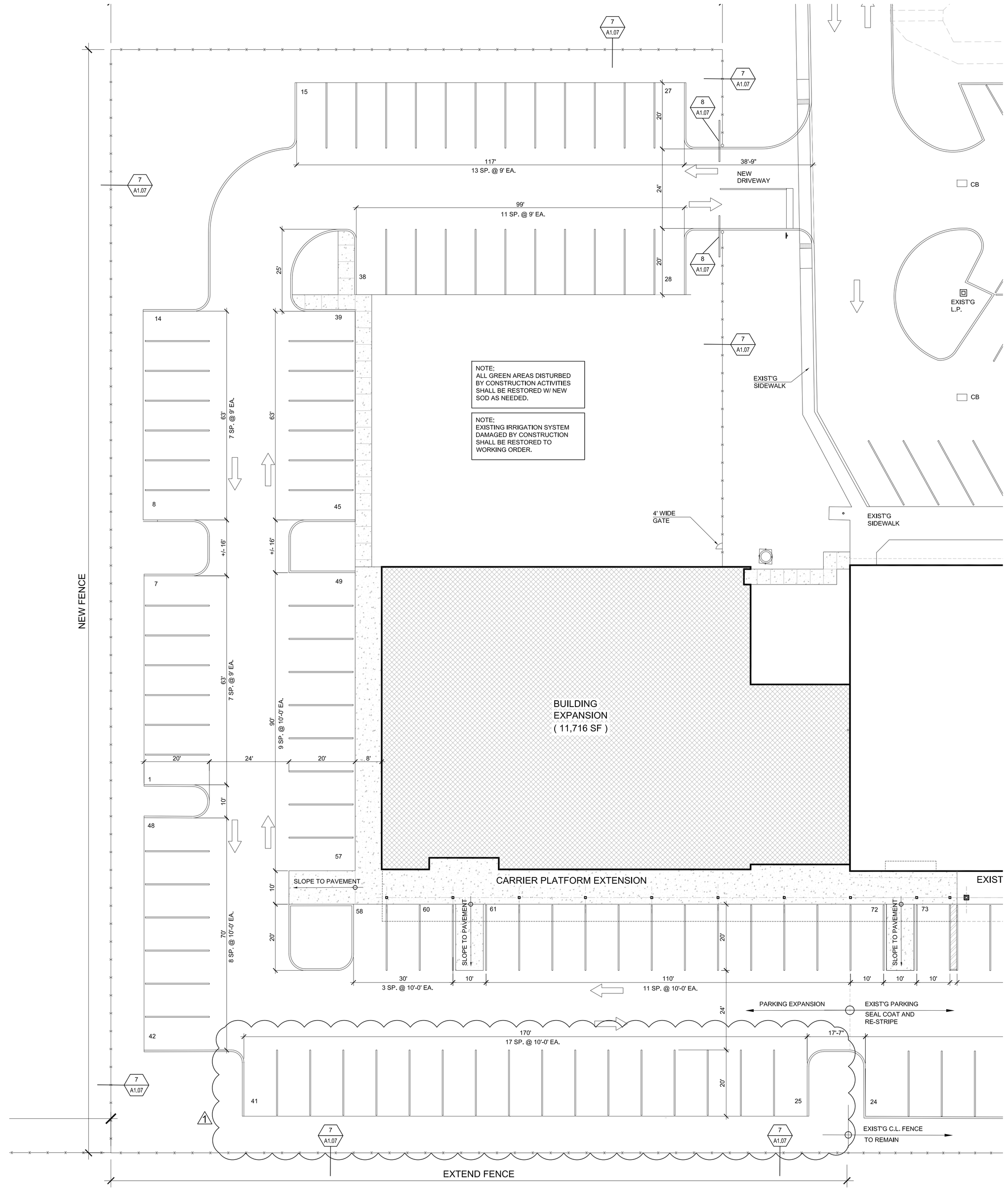
Scale: NOTED
Project: 21-23
Date: 06/16/22
USPS File Number: E546835

A1.03



PARTIAL SITE PLAN - AREA "B"
SCALE: 1/16" = 1'-0"

0 20 40 60

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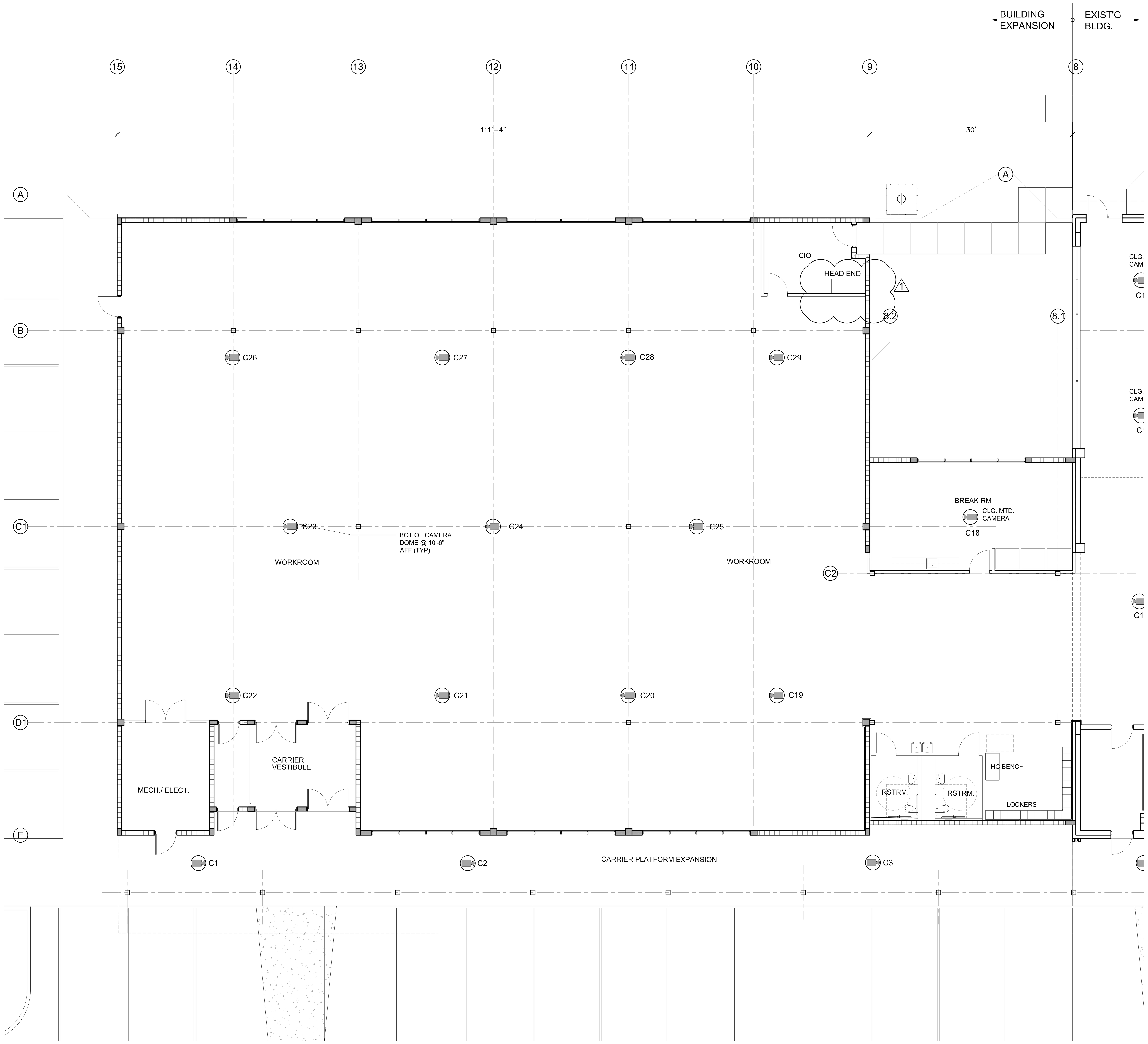
A1.04

Scale: NOTED
Project: 21-23
Date: 06/16/22
USPS File Number: E545635



PARTIAL FLOOR PLAN - WEST END - CAMERAS

SCALE: 1/8" = 1'-0"

CAMERA LEGEND - CIS - CRIMINAL INVESTIGATIVE SYSTEM

CAMERA No.	CAMERA TYPE	LOCATION	CAMERA TYPE	CAMERA TERMINATION LOCATION	MOUNTING	CABLE TYPE	NOTE	REMARKS
C1	PTZ	CARRIER PLATFORM	OUTDOOR - COVERED	HEAD-END	CLG. MOUNT	CAT6		
C2	PTZ	CARRIER PLATFORM	OUTDOOR - COVERED	HEAD-END	CLG. MOUNT	CAT6		
C3	PTZ	CARRIER PLATFORM	OUTDOOR - COVERED	HEAD-END	CLG. MOUNT	CAT6		
C4	PTZ	CARRIER PLATFORM	OUTDOOR - COVERED	HEAD-END	CLG. MOUNT	CAT6		
C5	PTZ	CARRIER PLATFORM	OUTDOOR - COVERED	HEAD-END	CLG. MOUNT	CAT6		
C6	PTZ	MAIL PLATFORM	OUTDOOR - COVERED	HEAD-END	CLG. MOUNT	CAT6		
C7								OMIT THIS CAMERA 1
C8	FIXED	TRASH DUMPSTERS	OUTDOOR - COVERED	HEAD-END	WALL MOUNT	CAT6		
C9	PTZ	LUNCHROOM	INDOOR	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C10	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C11	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C12	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C13	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C14	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C15	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C16	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C17	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C18	PTZ	LUNCHROOM	INDOOR	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C19	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C20	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C21	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C22	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C23	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C24	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C25	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C26	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C27	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C28	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C29	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT6		
C30	FIXED	FULL SERVICE COUNTER	INDOOR / DOME UNIT	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C31	FIXED	FULL SERVICE COUNTER	INDOOR / DOME UNIT	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C32	FIXED	FULL SERVICE COUNTER	INDOOR / DOME UNIT	HEAD-END	LAY-IN CLG. MOUNT	CAT6		
C33	FIXED	FULL SERVICE COUNTER	INDOOR / DOME UNIT	HEAD-END	LAY-IN CLG. MOUNT	CAT6		

CAMERA LEGEND - ROBBERY COUNTERMEASURES SYSTEM

CAMERA No.	CAMERA TYPE	LOCATION	CAMERA TYPE	CAMERA TERMINATION LOCATION	MOUNTING	CABLE TYPE	NOTE	REMARKS
RC-1	FIXED	MAIN ENTRY DOORS	INDOOR	HEAD-END	WALL MOUNT			
RC-2	FIXED	MAIN ENTRY DOORS	INDOOR	HEAD-END	WALL MOUNT			
RC-3	FIXED	FULL SERVICE LOBBY EXIT	INDOOR	HEAD-END	WALL MOUNT			
RC-4	FIXED	FULL SERVICE LOBBY ENTRY	INDOOR	HEAD-END	WALL MOUNT			
RC-5	FIXED	FULL SERVICE LOBBY	INDOOR	HEAD-END	WALL MOUNT			
RC-6	FIXED	FULL SERVICE LOBBY	INDOOR	HEAD-END	WALL MOUNT			
RC-7	FIXED	MAIL PLATFORM-ENTRANCE	OUTDOOR - COVERED	HEAD-END	WALL MOUNT			
RC-8	FIXED	MAIL PLATFORM-TRUCK	OUTDOOR - COVERED	HEAD-END	WALL MOUNT			

1

SYMBOL LEGEND

- CIS -CRIMINAL INVESTIGATIVE SYSTEM CAMERA/ FIXED LENS. BLUE SKY
- CIS -CRIMINAL INVESTIGATIVE SYSTEM FIXED CAMERA DOMED UNIT CENTERED OVER CASH REGISTER.
- CIS -CRIMINAL INVESTIGATIVE SYSTEM CAMERA W/ PAN, TILT, AND ZOOM CAPABILITIES.
- R/C - ROBBERY COUNTERMEASURES CAMERA W/ FIXED LENS.

1

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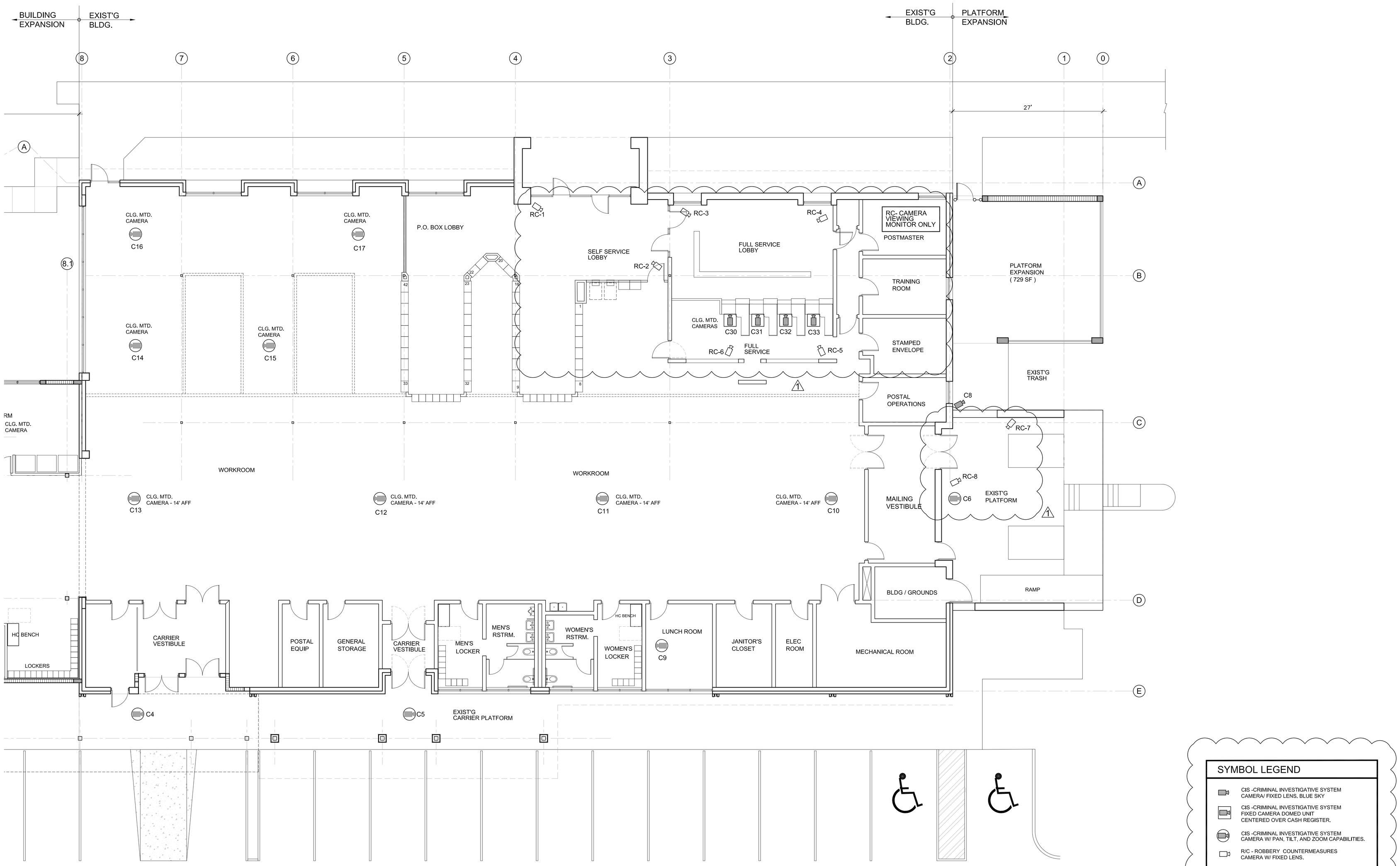
Revisions: 1 08/12/22 AMENDMENT #1

A2.07
Scale: NOTED Date: 06/16/22
Project: 21-23
USPS File Number: E54635



PARTIAL FLOOR PLAN - EXISTING BUILDING & EAST END - CAMERAS
SCALE: 1/8" = 1'-0"

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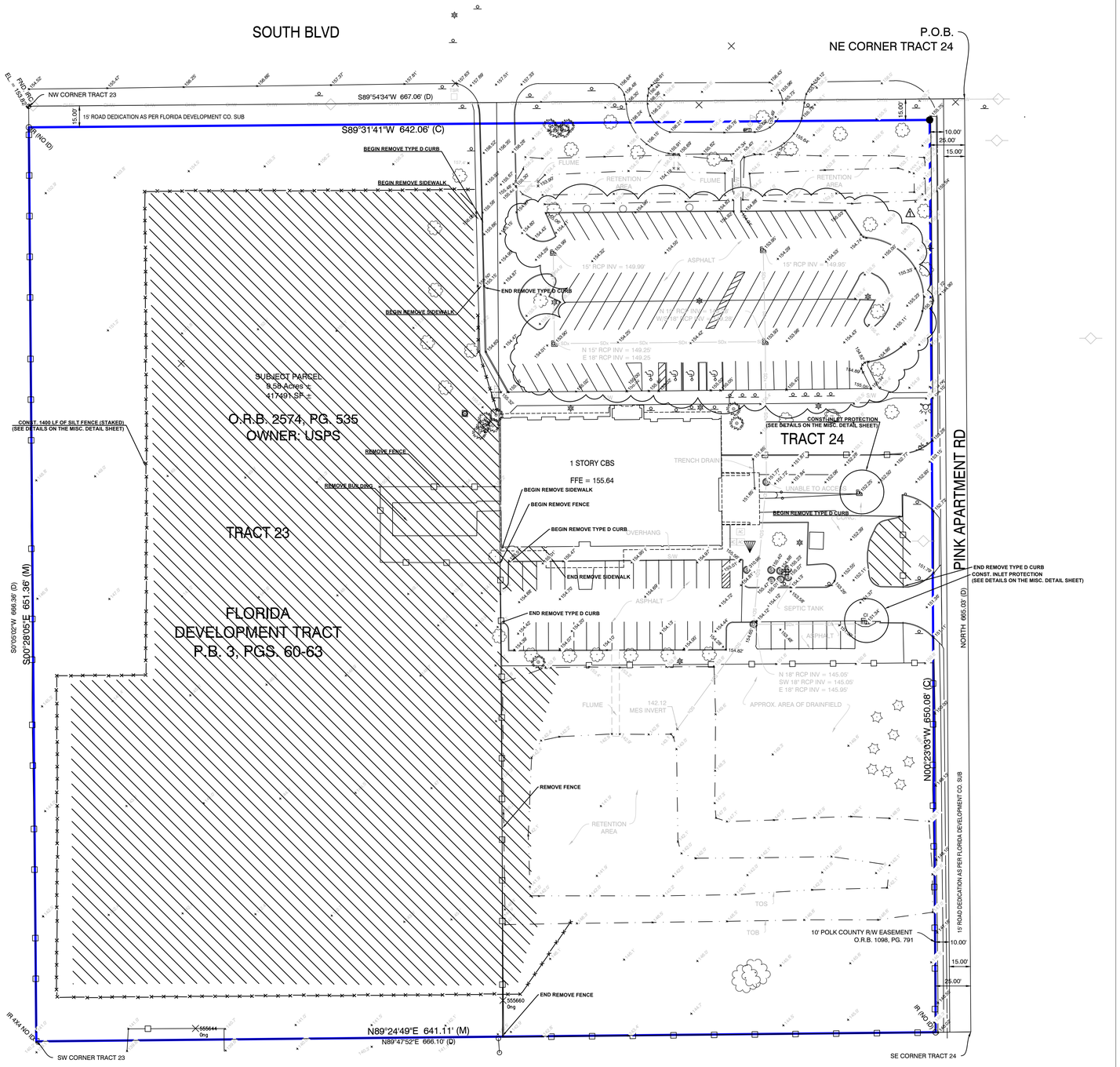
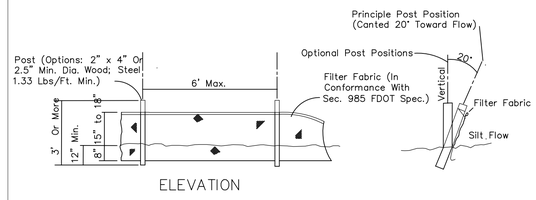
Revisions: 1 08/12/22 AMENDMENT #1

A2.08

Scale: NOTED
Project: 21-23
Date: 06/16/22
USPS File Number: E548635





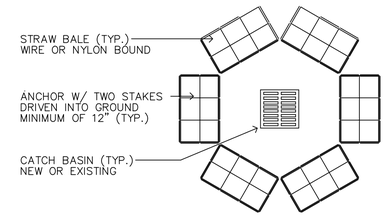
ELEVATION

TYPE III SILT FENCE

NOTE: ALL BARRIERS TO BE INSTALLED ACCORDING TO FDOT INDEX NOS. 102 AND 103

EROSION CONTROL NOTES:

1. SILT SCREEN FENCING MUST BE CONSTRUCTED AROUND EXCAVATED AND DISTURBED AREAS AND MUST BE MAINTAINED THROUGHOUT CONSTRUCTION UNTIL GROUND COVER IS ESTABLISHED.
2. WELL POINTING MUST BE UTILIZED TO DEWATER THE WORK AREA. IF A PUMP IS TO BE USED BY THE CONTRACTOR, THE PUMP DISCHARGE MUST BE DIRECTED TO A SPECIFIED AREA SO THAT NON-TURBID WATER IS DISCHARGED DOWNSTREAM. ALSO, TEMPORARY TURBIDITY BARRIERS MUST BE PROVIDED AT THE DISCHARGE POINT TO PREVENT EROSION AND SEDIMENT TRANSPORT.



SEDIMENT RUN-OFF CONTROL
NOT TO SCALE

GENERAL DEMOLITION AND EROSION AND SEDIMENT CONTROL NOTES:

1. **CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCE FOR THE DURATION OF THE PROJECT.**
2. **CONTRACTOR SHALL FOLLOW ALL LOCAL ORDINANCES FOR TREE REMOVAL AND DISPOSAL AND REMOVAL OF DEBRIS. CONTRACTOR TO FOLLOW LANDSCAPE PLAN FOR TREE REMOVAL. SEE LANDSCAPE PLANS.**
4. **CONTRACTOR TO INSTALL INLET PROTECTION AT EXISTING INLETS DURING CONSTRUCTION.**

1" = 40'

GENERAL SYMBOLS

PROPOSED ELEVATIONS	45.0'
EXISTING ELEVATIONS	x 45.0'
SANITARY SEWER CLEANOUT REFERENCE NUMBER	CO-1
STORMWATER MANHOLE	●
MITERED END SECTION (MES)	⊂
STORM INLET	■
SANITARY SEWER	—•—
FIRE HYDRANT	✱
WATER MAIN / VALVE	—⋈—

APPROXIMATE LIMITS OF DEMOLITION & CLEARING & GRUBBING & ASPHALT REMOVAL

BRIAN ANDREW ACKEN LICENSE No 46528 STATE OF FLORIDA PROFESSIONAL ENGINEER

EROSION & SEDIMENT CONTROL / DEMOLITION SHEET

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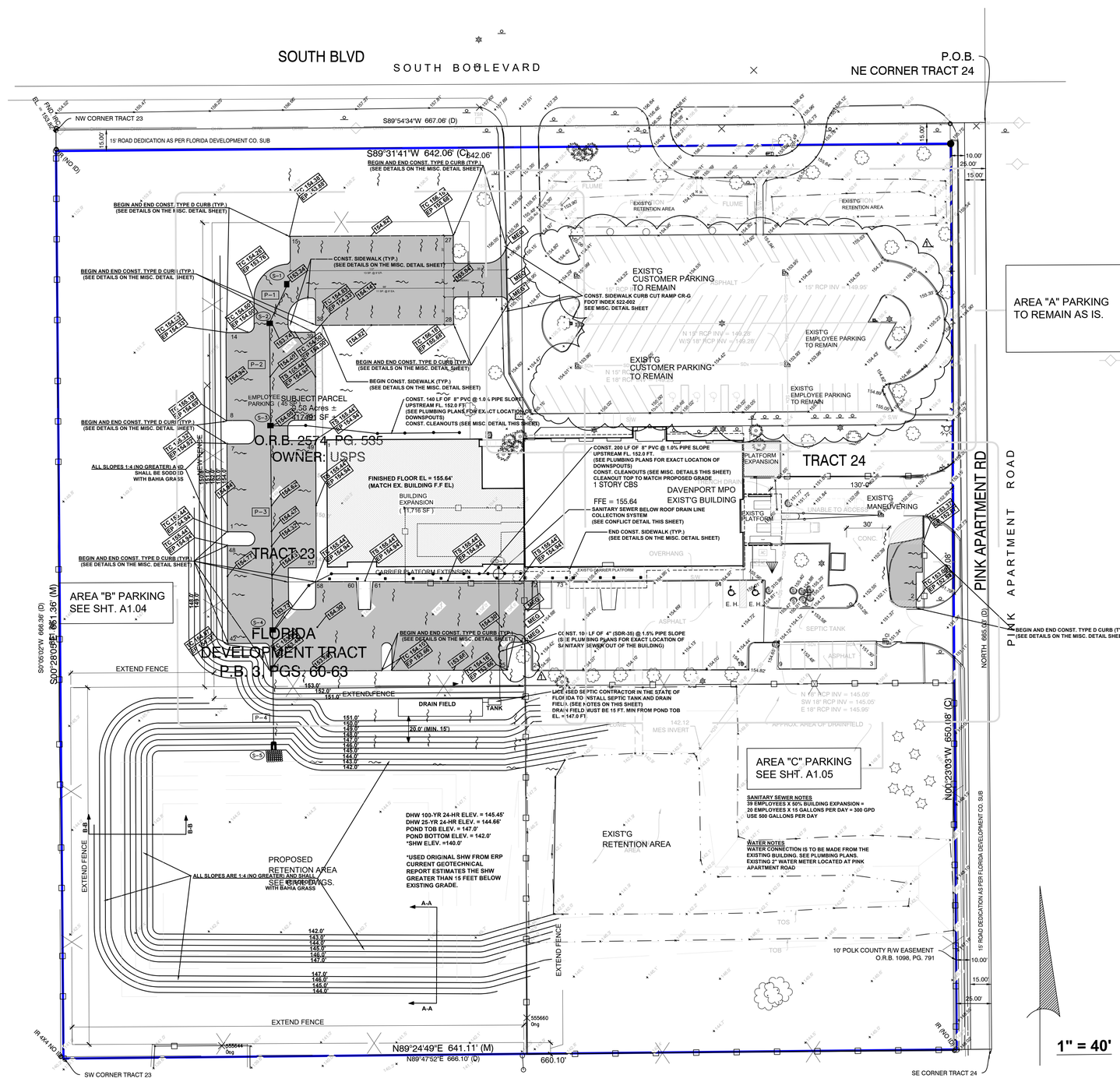
DRAWINGS AND SPECIFICATIONS AS

Revisions: 1 EXISTING PARKING TO REMAIN 8-12-22

C2.01

Scale: NOTED
Date: 06/16/22
Project: 21-23
USPS File Number: E54835



PROPOSED STORMWATER STRUCTURES

S-1
CONST. TYPE D INLET W/
TRAFFIC BEARING GRATE
FDOT INDEX 425-052
GRATE ELEV. = 153.24 FT.
FL (SW) = 148.24 FT.

S-2
CONST. TYPE D INLET W/
TRAFFIC BEARING GRATE
FDOT INDEX 425-052
GRATE ELEV. = 153.74 FT.
FL (NE) = 148.00 FT.

S-3
CONST. TYPE D INLET W/
TRAFFIC BEARING GRATE
FDOT INDEX 425-052
GRATE ELEV. = 154.05 FT.
FL (N) = 146.59 FT.
FL. (S) = 146.59 FT.
8" PVC FL. (E) = 150.6 FT.

S-4
CONST. TYPE D INLET W/
TRAFFIC BEARING GRATE
FDOT INDEX 425-052
GRATE ELEV. = 153.73 FT.
FL (N) = 145.86 FT.
FL. (S) = 145.86 FT.
PR 8" PVC FL. (E) = 150.0 FT.

S-5
CONST. CONC. MITERED END SECTION
FDOT INDEX 425-021
FL = 142.00 FT.
INSTALL 10' X 10' RUBBLE RIPRAP

PROPOSED STORMWATER PIPES

P-1
CONST. 30 LF OF 18" RCP @ 0.8% MIN.

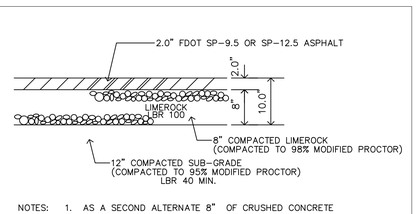
P-2
CONST. 72 LF OF 18" RCP @ 1.96% MIN.

P-3
CONST. 146 LF OF 24" RCP @ 0.5% PIPE SLOPE

P-4
CONST. 82 LF OF 24" RCP @ 4.71% PIPE SLOPE

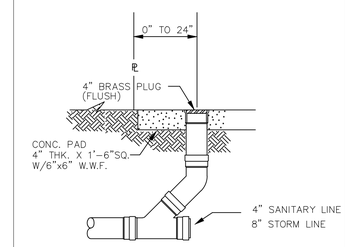
SANITARY SEWER

CO-1
CONST. SANITARY SEWER CLEANOUT
(SEE MISC. DETAIL THIS SHEET)
TOP ELEV. =155.50'+/-
TRAFFIC BEARING TOP
MATCH PROPOSED GRADE ELEV.
FL 4" SAN. SEWER ELEV. = 149.5 FT.

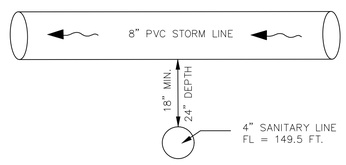


NOTES:
1. AS A SECOND ALTERNATE 8" OF CRUSHED CONCRETE MAY BE UTILIZED IN LIEU OF LIMEROCK AND MUST BE APPROVED BY THE ENGINEER.
2. SEE GEOTECHNICAL REPORT PREPARED BY ARDAMAN & ASSOC. ON APRIL 13, 2022 UNDER PROJECT NO. 22-6342.

PAVEMENT DETAIL



TYPICAL COMMERCIAL CLEAN-OUT DETAIL



CONFLICT DETAIL
N.T.S.

CONTRACTOR TO VERIFY CLEARANCE OF SANITARY LINE LOCATION AND INVERT. CONTACT ENGINEER IF THIS CANNOT BE MET PRIOR TO ANY CONSTRUCTION. NO PIPE JOINTS FROM STORM OR SANITARY AT CONFLICT LOCATION.

GENERAL SYMBOLS

- PROPOSED ELEVATIONS — 45.0' × 45.0'
- EXISTING ELEVATIONS
- SANITARY SEWER CLEANOUT REFERENCE NUMBER — CO-1
- STORMWATER MANHOLE
- MITERED END SECTION (MES)
- STORM INLET
- SANITARY SEWER
- FIRE HYDRANT
- WATER MAIN / VALVE

PAVEMENT LIMITS

PAVING, GRADING, DRAINAGE & UTILITY SHEET

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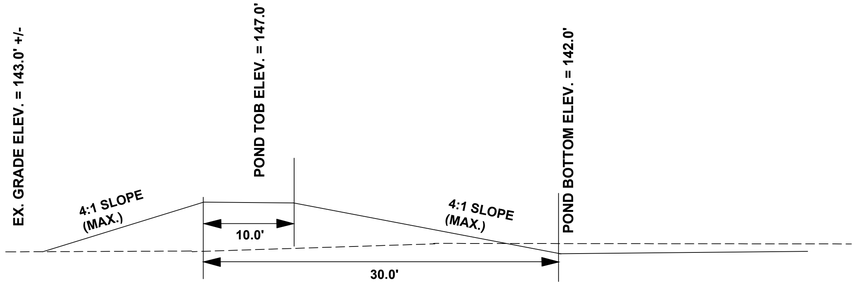
UNITED STATES POSTAL SERVICE

Revisions: 1 EXISTING PARKING TO REMAIN / ADJUST SPACE 8-12-22

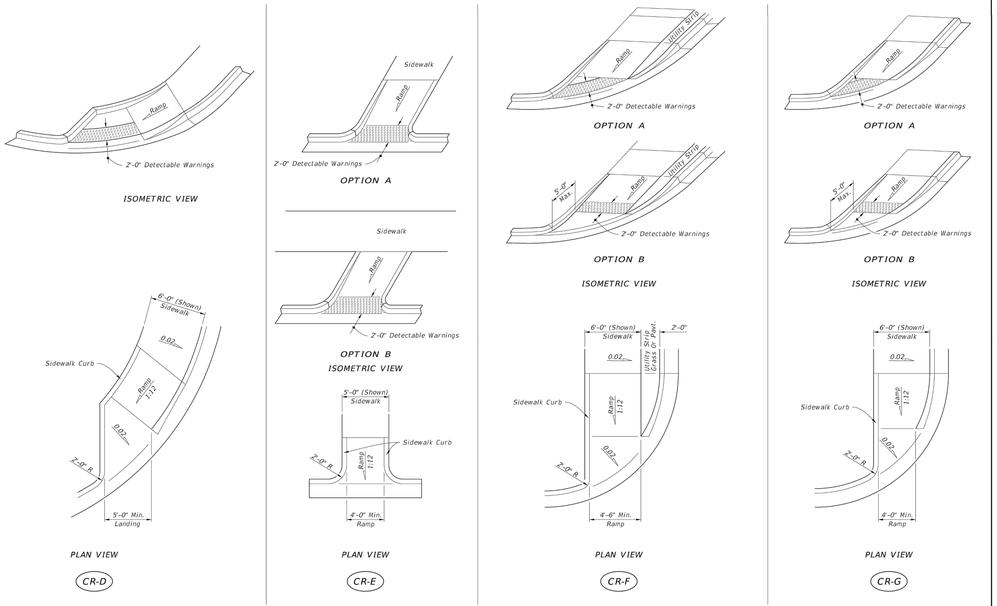
Scale: NOTED
Date: 06/16/22
Project: 21-23
USPS File Number: E54635

C3.01

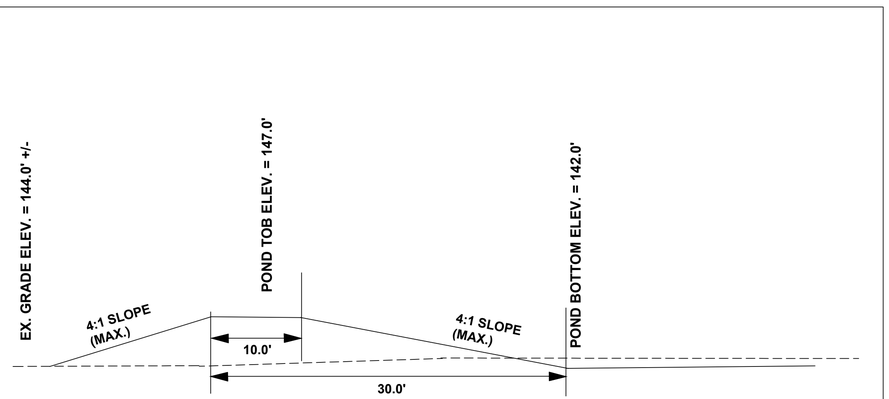


ALL EMBANKMENTS
ARE TO BE SODDED WITH
BAHIA SOD

CROSS SECTION A-A (TYPICAL)
NTS



LAST REVISION	REVISION DESCRIPTION:	FDOT	FY 2021-22 STANDARD PLANS	DETECTABLE WARNINGS AND SIDEWALK CURB RAMPS	INDEX	SHEET
11/01/20					522-002	4 of 7



ALL EMBANKMENTS
ARE TO BE SODDED WITH
BAHIA SOD

CROSS SECTION B-B (TYPICAL)
NTS

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Revisions: ⚠ EXISTING PARKING TO REMAIN
SHEET C4.04 REMOVED 8-12-22

C4.03

Scale: NOTED
Date: 06/16/22
Project: 21-23
USPS File Number: E54635

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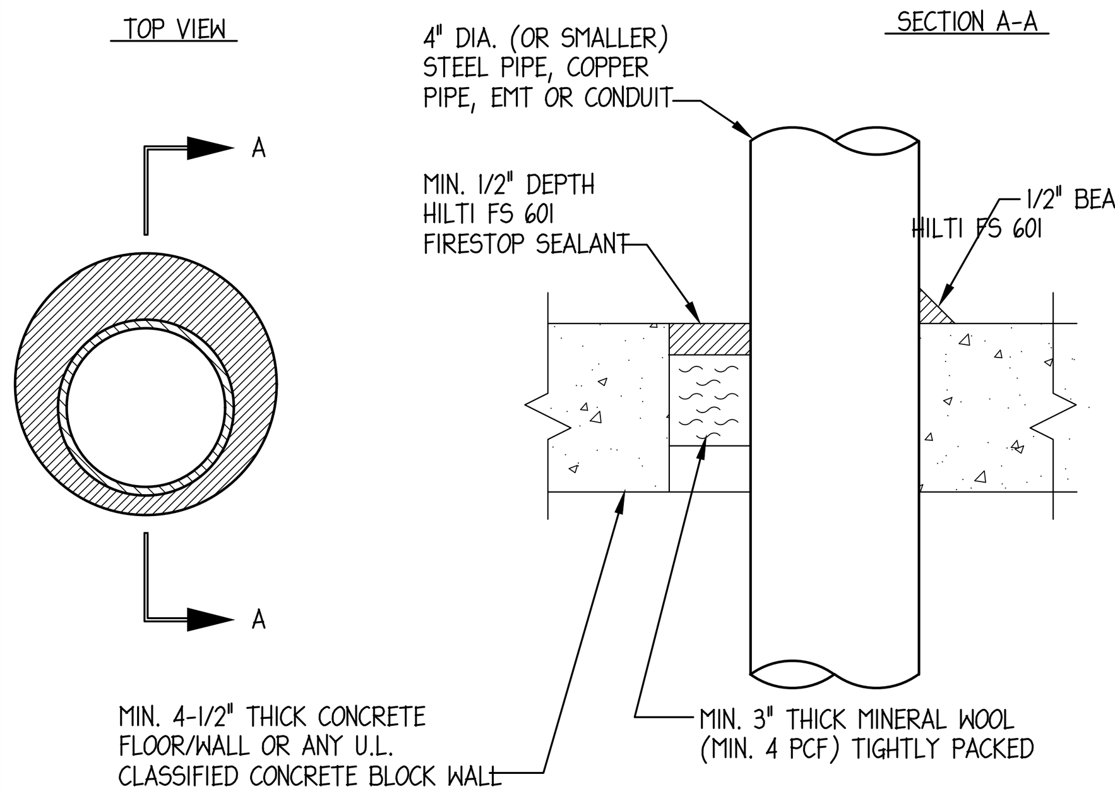
MISC. DETAILS
SHEET 3



NOTES:
1. MAXIMUM DIAMETER OF OPENING = 6".
2. ANNULAR SPACE = MIN. 0" (POINT CONTACT), MAX. 2".
3. WALLS REQUIRE 1/2" OF SEALANT FLUSH WITH BOTH SIDES.

F RATING = 2-HR.
T RATING = 0-HR.

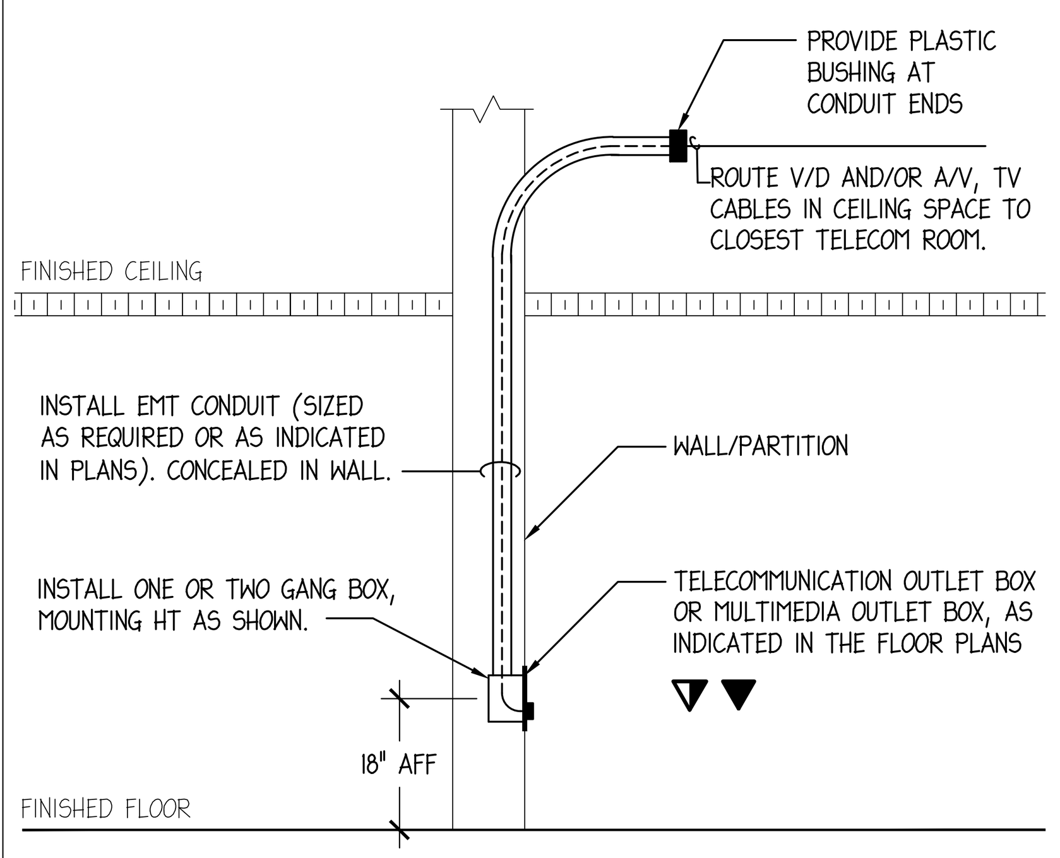
INSTALLATION INSTRUCTIONS FOR UL No. CAJ1149

STEP 1 - PREPARATION: ALL SURFACES MUST BE CLEAN, SOUND, DRY AND FROST FREE PRIOR TO APPLICATION OF MATERIALS.

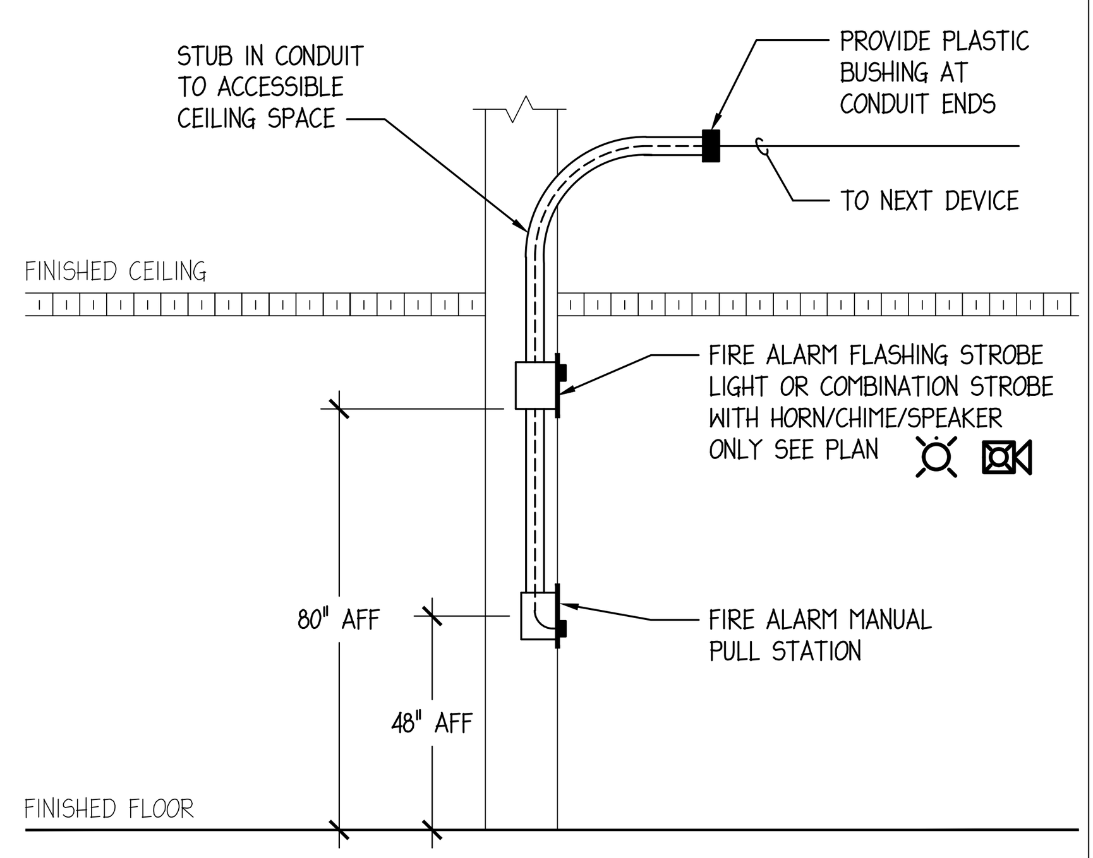
STEP 2 - BACKING MATERIAL: PACK MINERAL WOOL TIGHTLY AROUND THE PENETRATING ITEM TO THE DEPTH SHOWN IN THE DRAWINGS, AND RECESS IT BELOW THE TOP SURFACE OF THE FLOOR (OR BOTH SURFACES OF A WALL) TO ALLOW PROPER SPACE FOR THE FIRESTOP MATERIAL.

STEP 3 - FIRESTOP SEALANT: APPLY THE FIRESTOP SEALANT OVER THE BACKING MATERIAL TO THE DEPTH SHOWN. IF THE PIPE IS OFFSET TO ONE SIDE, APPLY A 1/2" BEAD OF FIRESTOP SEALANT AROUND ITS CIRCUMFERENCE WHERE IT CONTACTS THE WALL OR FLOOR.
WALL PENETRATIONS REQUIRED FIRESTOP SEALANT ON BOTH SIDES. LEAVE COMPLETED SEAL UNDISTURBED FOR 48 HOURS. OR FLOOR.

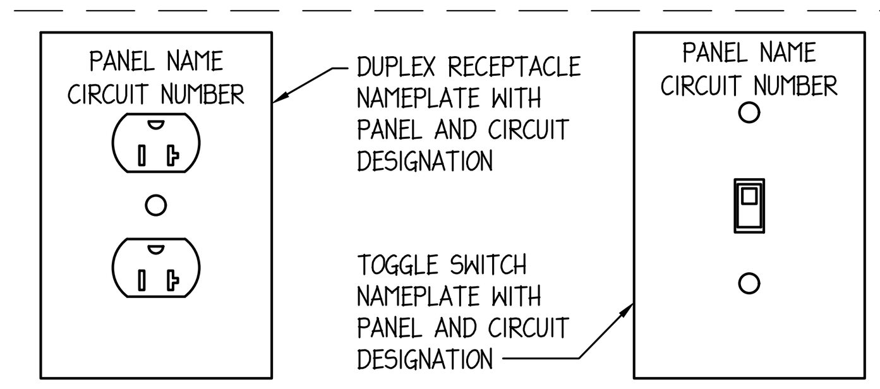
D1 METAL PIPE THROUGH CONCRETE FLOOR/WALL OF BLOCK WALL DETAIL
SCALE: N.T.S.



D2 TYPICAL MOUNTING DETAIL VOICE/DATA & MULTIMEDIA
SCALE: N.T.S.

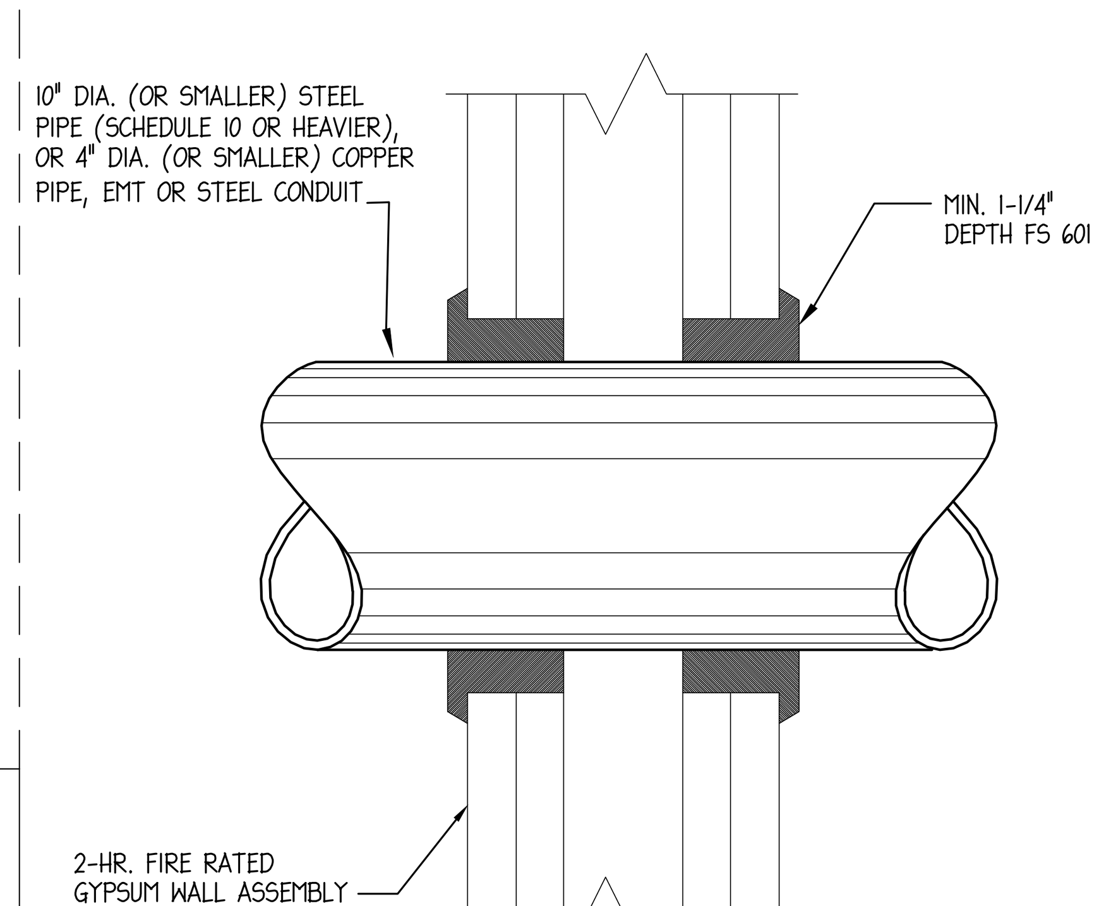


D3 TYPICAL MOUNTING DETAIL PULL STATION AND HORN/STROBE DETAIL
SCALE: N.T.S.



1. ALL WIRING DEVICES FED FROM A CRITICAL, EQUIPMENT, OR LIFE SAFETY BRANCH TO HAVE A RED COVER PLATE.
2. ALL ENGRAVED LETTERS TO BE 1/4".

D4 TYPICAL ELECTRICAL DEVICE ENGRAVING DETAIL
SCALE: N.T.S.



NOTE: 1. MAX. DIA. OF OPENING IS 12-1/2"
2. ANNULAR SPACE REQUIRED MIN. 1/2" TO MAX. 7/8"

F RATING = 2-HR
T RATING = 0-HR

PROTOTYPE: HILTI

U.L. SYSTEM No. WL1054
METAL PIPE THROUGH 2-HR. GYPSUM WALL

D5 METAL PIPE THROUGH GYPSUM WALL DETAIL
SCALE: N.T.S.

ELECTRICAL DRAWINGS LIST

E0.0.1	ELECTRICAL ABBREVIATIONS & LEGEND
E0.02	GENERAL ELECTRICAL NOTES
E1.01	SITE PLAN POWER AND LIGHTING SERVICE AREAS
E1.02	SITE PLAN LIGHTING LEVELS
E2.01	FLOOR PLAN LIGHTING - WEST
E2.02	FLOOR PLAN LIGHTING - EAST
E2.03	FLOOR PLAN BUILDING LIGHTING LEVELS. - WEST
E2.04	FLOOR PLAN BUILDING LIGHTING LEVELS. - EAST
E3.01	FLOOR PLAN POWER - WEST
E3.02	FLOOR PLAN POWER - EAST
E3.03	ROOF PLAN POWER
E4.01	ELECTRICAL FLOOR PLAN CAMERA SYSTEM - WEST
E4.02	ELECTRICAL FLOOR PLAN CAMERA SYSTEM - EAST
E5.01	ELECTRICAL RISERS AND ENLARGE PLANS.
E5.02	ELECTRICAL PANEL SCHEDULES
E6.01	ELECTRICAL DETAILS
E6.02	ELECTRICAL DETAILS

GENERAL ELECTRICAL NOTES

1. CODES AND REFERENCES

A. ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS OF THE FOLLOWING ORGANIZATIONS, AS APPLICABLE. THE LATEST EDITION OF THE FLORIDA BUILDING CODE SHALL APPLY EXCEPT WHERE THE PUBLIC AUTHORITY REQUIRES USE OF AN EARLIER EDITION.

2020 FLORIDA BUILDING CODE - 7TH EDITION
2018 NFPA 101 - LIFE SAFETY CODE
2017 NFPA 70 - NATIONAL ELECTRIC CODE
2019 NFPA 72 - NATIONAL FIRE ALARM CODE
2018 NFPA 90A - STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS.
2021 STATE AND LOCAL ORDINANCES.
2021 USPS STANDARD DESIGN CRITERIA, HANDBOOK AS-503

B. ELECTRICAL WORK SHALL COMPLY WITH THE STANDARDS OF THE FOLLOWING ORGANIZATIONS, AS APPLICABLE. THE LATEST EDITION OF THE STANDARD SHALL APPLY EXCEPT WHERE THE PUBLIC AUTHORITY REQUIRES USE OF AN EARLIER EDITION.

ADA AMERICAN DISABILITY ACT
ANSI AMERICAN NATIONAL STANDARD INSTITUTE
EIA/TIA ELECTRICAL INDUSTRIES ASSOC. / TELECOMMUNICATIONS INDUSTRIES ASSOC.
FM FACTORY MUTUAL
IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
NECA NATIONAL ELECTRICAL CONTRACTORS ASSOC., INC.

2. PROJECT RECORD DOCUMENTS:

A. RECORD DRAWINGS: MAINTAIN A CLEAN, UNDAMAGED SET OF BLUE OR BLACK LINE WHITE-PRINTS OF CONTRACT DRAWINGS AND SHOP DRAWINGS. MARK THE SET TO SHOW THE ACTUAL INSTALLATION WHERE THE INSTALLATION VARIES FROM THE WORK AS ORIGINALLY SHOWN. MARK WHICH DRAWING IS MOST CAPABLE OF SHOWING CONDITIONS FULLY AND ACCURATELY. GIVE PARTICULAR ATTENTION TO CONCEALED ELEMENTS THAT WOULD BE DIFFICULT TO MEASURE AND RECORD AT A LATER DATE.
1. MARK RECORD SETS WITH RED ERASABLE COLORED PENCIL.
2. MARK IMPORTANT ADDITIONAL INFORMATION THAT WAS EITHER SHOWN SCHEMATICALLY OR OMITTED FROM ORIGINAL DRAWINGS.

B. RESPONSIBILITY FOR MARKUP: THE ELECTRICAL SUBCONTRACTOR SHALL PREPARE THE MARK UP ON RECORD DRAWINGS.
1. ACCURATELY RECORD INFORMATION IN AN UNDERSTANDABLE DRAWING TECHNIQUE.
2. RECORD DATA AS SOON AS POSSIBLE AFTER OBTAINING IT. RECORD AND CHECK THE MARKUP PRIOR TO ENCLOSING CONCEALED INSTALLATIONS.

C. SUBMITTAL: AT TIME OF COMPLETION, SUBMIT RECORD DRAWINGS TO THE ARCHITECT/ENGINEER AND/OR OWNER FOR THE OWNER'S RECORDS. ORGANIZE INTO SETS AND BIND & LABEL SET FOR THE OWNER'S CONTINUED USE.

3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS MANNER AND SHALL BE COMPLETED AND FULLY OPERATIVE TO THE ACCEPTANCE OF THE OWNER, GENERAL CONTRACTOR AND ENGINEER.

4. CONTRACTOR SHALL GUARANTEE ALL ELECTRICAL WORK, INCLUDING PARTS AND LABOR, FOR A PERIOD OF ONE (1) YEAR AFTER FINAL WRITTEN ACCEPTANCE BY OWNER AND ENGINEER.

5. THIS CONTRACTOR SHALL PAY FOR ALL FEES, INSPECTIONS,TESTS,FINES,ETC., AS REQUIRED.

6. PRIOR TO COMMENCEMENT OF WORK, VERIFY MEASUREMENTS AT SITE. SUBMIT DISCREPANCIES AND DIFFERENCES TO ARCHITECT/ENGINEER FOR CONSIDERATION AND DECISION BEFORE PROCEEDING.

7. VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION OR INSTALLATION.

8. OBTAIN FULL INFORMATION REGARDING PECULIARITIES AND LIMITATIONS OF SPACE AVAILABLE FOR INSTALLATION OF THE EQUIPMENT AND MATERIALS UNDER CONTRACT, AND PROVIDE READY ACCESSIBILITY TO ELECTRICAL EQUIPMENT, INCLUDING ANY PART OF SYSTEM REQUIRED TO BE REACHED FOR MAINTENANCE AND OPERATIONS.

9. PROVIDE AN ACCURATE LAYOUT, GRADES AND ELEVATIONS; TAKE PROPER PRECAUTIONS TO PROTECT WORK AND EQUIPMENT FROM DAMAGE.

10. CUT ALL OPENINGS REQUIRED TO ACCOMMODATE THE WORK UNDER THIS CONTRACT, AND REPAIR ALL SURFACES, ETC., DAMAGED BY SUCH CUTTINGS. ALL WORK DONE UNDER THIS HEADING MUST CONFORM IN EVERY RESPECT TO FINISH AND QUALITY OF MATERIALS AND WORKMANSHIP SPECIFIED UNDER APPROPRIATE SECTIONS. CONCRETE FLOOR OPENINGS SHALL BE CORE DRILLED. FIRE SEAL PENETRATIONS AS REQUIRED.

11. PROVIDE CODE APPROVED FIRE STOPPING AT ALL CONDUIT PENETRATIONS THROUGH BUILDING CONSTRUCTION TO MAINTAIN FIRE, SMOKE AND SOUND RATINGS. FIRE SEAL ALL PENETRATIONS. SEAL TELECOMMUNICATION SLEEVES AFTER CABLES HAVE BEEN INSTALLED.

12. THE ELECTRICAL AND TELEPHONE SERVICE INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF THE POWER AND TELEPHONE COMPANY. CONTRACTOR SHALL COORDINATE SERVICE REQUIREMENTS WITH THE RESPECTIVE UTILITY COMPANY, PROVIDING ACCORDINGLY.

13. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHERS AS WELL AS PROVIDING TEMPORARY POWER.

14. ALL MATERIAL SHALL BE NEW AND OF AMERICAN MANUFACTURE AND BEAR THE UNDERWRITERS' LABORATORY AND UNION LABELS WHERE APPLICABLE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE DELIVERY SCHEDULE OF MATERIAL.

15. VERIFY EQUIPMENT SIZES, VOLTAGE AND CURRENT CHARACTERISTICS, ETC., BEFORE THE ORDERING OF ANY EQUIPMENT AND BEFORE ROUGHING-IN FOR EQUIPMENT TO BE SUPPLIED BY OTHERS. NOTIFY ENGINEER OF ANY CONFLICTS. ADVISE ALL TRADES AND OTHERS FURNISHING EQUIPMENT THAT NOMINAL CHARACTERISTICS ARE 277/480V, THREE PHASE, 120/208 VOLTS, THREE PHASE.

16. PROVIDE A COMPLETE POWER CIRCUIT WIRING AND CONNECTIONS FOR EACH AND EVERY ITEM OF PERMANENT MECHANICAL EQUIPMENT. PRIOR TO ANY ROUGH-IN COORDINATE WITH HVAC AND PLUMBING EQUIPMENT NAMEPLATE TO OBTAIN CORRECT WIRE SIZE AND OVER CURRENT PROTECTION RATING. IF THE NAMEPLATE LABEL REQUIRES THE OVER CURRENT PROTECTION DEVICE TO BE FUSES, PROVIDE A FUSED SWITCH WITH PROPER SIZE FUSES AT THE EQUIPMENT LOCATION.

17. CORRECTION OF ANY DEFECTS, REPAIR OF DAMAGE DURING CONSTRUCTION AS WELL AS ANY MINOR CHANGES IN OUTLET LOCATIONS SHALL BE MADE WITHOUT ADDITIONAL COST.

18. GUTTERS, WIREWAYS, PULL BOXES, ETC., SHALL BE GALVANIZED STEEL SIZED PER NATIONAL ELECTRICAL CODE, ARTICLE 314. USE OF GUTTERS, WREWAYS, PULL BOXES SHALL BE IN COMPLIANCE WITH NEC.

19. ALL WIRING SHALL BE IN RACEWAY.

A. INDOORS: USE THE FOLLOWING WIRING METHODS:
1. EXPOSED: RIGID STEEL OR IMC BELOW 8 FEET FROM FLOOR, EMT ABOVE 8 FEET FROM FLOOR.
2. CONCEALED: DRY INTERIOR WALLS EMT, CONDUIT DIRECT BURIED OR CONCRETE ENCASED SHALL BE PVC SCHEDULE 40 .
3. CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC SOLENOID, OR MOTOR - DRIVEN EQUIPMENT): FMC; EXCEPT IN WET OR DAMP LOCATIONS, USE LFMC.
4. DAMP OR WET LOCATIONS: RIGID STEEL CONDUIT.

B. SEALING FITTINGS SHALL BE INSTALLED AT THE FOLLOWING POINTS, ELSEWHERE AS SHOWN.
1. WHERE REQUIRED BY THE NEC.

20. CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR CORRECTLY PHASING THE CIRCUITS IN THE PANEL AND SHALL BALANCE THE LOAD ON THE PHASES UNDER NORMAL OPERATING CONDITIONS. PROVIDE TYPEWRITTEN PANEL BOARD DIRECTORIES. UPDATE ALL DIRECTORIES IN EXISTING PANEL BOARDS AFFECTED BY THIS PROJECT ELECTRONICALLY TRACING ALL CIRCUITS.

21. MULTI-WIRE BRANCH CIRCUITS IN SAME RACEWAY SHALL HAVE A DEDICATED NEUTRAL. THE SHARING OF NEUTRAL CONDUCTORS FOR MULTI-WIRE BRANCH CIRCUITS IS PROHIBITED. ALL BRANCH CIRCUITS SHALL CONTAIN INDIVIDUAL NEUTRAL CONDUCTORS

22. ALL POWER AND LIGHTING CIRCUITS SHALL HAVE A GREEN EQUIPMENT GROUNDING CONDUCTOR SIZED AS PER NEC 250-122.

23. PROVIDE NYLON PULL STRINGS IN ALL EMPTY CONDUITS FOR FUTURE USE.

24. CONDUCTORS SHALL BE AS FOLLOWS:

A. COMPOSED OF 98 IAC'S ANNEALED COPPER, 600 VOLTS MINIMUM RATED 75 DEGREES CENTIGRADE, MAXIMUM TEMPERATURE - THW, THWN.

B. SOLID THW IN SIZE 10 AWG AND UNDER AND STRANDED THW IN SIZE 8 AWG AND LARGER.

C. PLAINLY MARKED AND COLOR CODED THROUGHOUT INSTALLATION.

D. NEUTRAL CONDUCTORS SHALL NOT BE SHARED BY 2 OR MORE PHASE CONDUCTORS APPLY FOR BRANCH CIRCUITS.

E. POWER AND BRANCH CIRCUITS MINIMUM CONDUIT RUN IN 1/2"C, ALL HOMERUNS MINIMUM CONDUIT RUN IN 3/4"C.

F. COMMUNICATION CABLE, LOW VOLTAGE, CONTROL INTERCOM, SECURITY AND COMMUNICATIONS WIRING RUN IN 3/4"C

25. FURNISH AND INSTALL HEAVY DUTY DISCONNECT SWITCHES AS SHOWN AND REQUIRED FOR EQUIPMENT FURNISHED BY OTHERS. FUSES SHALL BE DUAL ELEMENT, TIME DELAY TYPE.

26. COLOR CODING OF CONDUCTORS: *

A. WIRING FOR 120/208 VOLT 3 PHASE 4 WIRE SYSTEM SHALL BE CODED AS FOLLOWS:

PHASE "A" - BLACK
PHASE "B" - RED
PHASE "C" - BLUE
NEUTRAL - WHITE
GROUND - GREEN

C. COLORS ON CONDUCTOR 6 AWG AND SMALLER SHALL BE INTEGRAL PART OF INSULATION, ON CONDUCTOR 4 AWG AND LARGER CONDUCTORS, EITHER COLOR CODING TAPE OR PAINTED WITH TWO COATS OF CORRECT COLOR PAINT AT ALL TERMINALS AND CONNECTION POINTS. (*) UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE. ALLOW A MAXIMUM VOLTAGE DROP IN BRANCH CIRCUITS CONDUCTORS OF 3% (THREE PERCENT)

27. OUTLET BOXES SHALL BE GALVANIZED STEEL OR RUST RESISTANT MALLEABLE IRON ALLOY. OUTLET BOXES FOR WIRING DEVICES SHALL BE ONE PIECE STANDARD GANG BOX. IDENTIFY BOXES AS REQUIRED PER N.E.C. FOR EMERGENCY AND LIFE SAFETY CIRCUITS.

28. PULL AND JUNCTION BOXES SHALL BE OF STEEL CONSTRUCTION, SPOT OF SEAM WELDED AT JOINTS AND HOT DIPPED GALVANIZED AFTER FABRICATION. IDENTIFY PULL AND JUNCTION BOXES AS REQUIRED PER N.E.C.

29. SWITCHES AND DUPLEX CONVENIENCE RECEPTACLES SHALL BE OF SPECIFICATIONS GRADE, BACK OR SIDE WIRED, RATED AT 20 AMPS, 125 VOLTS, COLOR AS SELECTED BY ARCHITECT. DUPLEX RECEPTACLES SHALL BE U-SLOTTED GROUNDING TYPE; GFCI RECEPTACLES SHALL BE FEED THROUGH TYPE, WITH INTEGRAL NEMA WD 6, CONFIGURATION 5-20R DUPLEX RECEPTACLE TO PROTECT CONNECTED DOWNSTREAM RECEPTACLE, AND SWITCHES SHALL BE HEAVY DUTY OF THE QUIET TYPE. WALL PLATE SHALL MATCH CORRESPONDING WIRING DEVICE. PLATE - SECURING SCREWS SHALL BE METAL WITH HEAD COLOR TO MATCH PLATE FINISH. MATERIAL FOR WALL PLATE SHALL BE SMOOTH PLASTIC.

30. COORDINATION WITH OTHER TRADES:

A. PROVIDE COMPLETE AND PROPERLY FUNCTIONING ELECTRICAL SYSTEMS FOR THIS PROJECT. VISIT THE PROJECT SITE, EXAMINE THE CONDITION OF THE PREMISES, THESE PLANS AND ALL CONTRACT DOCUMENTS AND SPECIFICATIONS RELATING TO THE AREA OF WORK. REPORT ANY DISCREPANCIES OR OMISSIONS IN THIS PLAN SET TO THE ENGINEER FOR RESOLUTION AND CLARIFICATION PRIOR TO SUBMISSION OF BIDS. BY SUBMITTING A BID ON THIS PROJECT, THE CONTRACTOR ACCEPTS THESE DOCUMENTS AS AN ADEQUATE DEFINITION OF THE SCOPE OF WORK. ADDITIONAL COSTS TO ACHIEVE THE INTENDED SCOPE OF WORK AS A RESULT OF ANY OF THESE CONDITIONS WILL NOT BE ACCEPTED.

B. SPECIAL ATTENTION SHALL BE GIVEN BUT NOT BE LIMITED TO NEW AND EXISTING SITE UTILITIES AND/OR FIELD CONDITIONS.

C. REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LUMINAIRES (LIGHT FIXTURES).

D. VERIFY THE TYPE OF CEILING SYSTEM WITH THE GENERAL CONTRACTOR OR CEILING CONTRACTOR. PROVIDE LUMINAIRES (LIGHT FIXTURES) WHICH ARE COMPATIBLE WITH THE CEILING SYSTEM AND INCLUDE ALL REQUIRED MOUNTING ACCESSORIES AND HARDWARE.

E. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER TRADES AND UTILITIES.

31. FINAL TESTING, ADJUSTMENTS AND ACCEPTANCE OF ELECTRICAL EQUIPMENT AND SYSTEMS:

A. INITIATE TESTING SCHEDULE AND CLEAR WITH ARCHITECT/ENGINEER AND/OR OWNER; DO NOT SCHEDULE OR TEST WITHOUT THIS CLEARANCE. FURNISH ARCHITECT/ENGINEER AND/OR OWNER WITH NAME OF PERSON WHO WILL BE IN CHARGE OF TESTING, ENERGIZING AND STARTING UP.

CONFER WITH ARCHITECT/ENGINEER AND/OR OWNER ON PROCEDURES TO BE FOLLOWED IN OBTAINING CLEARANCES FOR ELECTRICAL EQUIPMENT. ADHERE TO PROCEDURES AS FINALLY AGREED UPON.

B. COMPILE COMPLETE TEST AND INSPECTION RECORDS AND INCORPORATE INTO A REPORT FOR EACH PIECE OF EQUIPMENT TESTED. RECORD ALL READINGS TAKEN. SUBMIT (4) COPIES TO ARCHITECT/ENGINEER AND/OR OWNER FOR REVIEW.

C. NOTIFY ARCHITECT/ENGINEER BY LETTER AT LEAST ONE WEEK PRIOR TO TEST, ESTABLISHING THE TIME TEST IS TO BE PERFORMED. PERFORM TESTS IN PRESENCE OF ARCHITECT/ENGINEER AND/OR OWNER.

D. FURNISH NECESSARY METERS, INSTRUMENTS, TEMPORARY WIRING AND LABOR TO PERFORM TESTS AND ADJUSTMENTS OF EQUIPMENT AND WIRING, INCLUDING ELECTRICAL EQUIPMENT FURNISHED BY OTHERS, TO DETERMINE PROPER POLARITY, PHASING, FREEDOM FROM GROUNDS AND SHORTS, RESISTANCE TO GROUND AND OPERATION OF EQUIPMENT. MEASURING INSTRUMENTS SHALL BE PROPERLY CALIBRATED AND CERTIFIED PRIOR TO USE.

E. DEMONSTRATE MATERIALS AND MANNER OF INSTALLATION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF STATE AND LOCAL PUBLIC AUTHORITIES, THE UTILITY COMPANIES AND NFPA.

F. ENERGIZE EQUIPMENT FOLLOWING ESTABLISHED PROCEDURES AFTER CERTIFICATION BY THE CONTRACTOR THAT THE INSTALLATION IS SATISFACTORY.

G. WIRING:
1. CHECK SYSTEM AND EQUIPMENT GROUNDS FOR RESISTANCE USING THE MEGGER GROUND TESTER IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
2. INVESTIGATE CIRCUITS SHOWING INSULATION RESISTANCE LESS THAN MINIMUM VALUES GIVEN IN N.E.C. CORRECT WEAK POINTS.
3. CORRECT OR REPLACE NOMINAL CURRENT-CARRYING CIRCUITS WHICH ARE DEFECTIVE OR GROUNDED. CORRECT OTHER TROUBLES ENCOUNTERED IN THESE TESTS.

H. BREAKERS: SET BREAKERS SO EQUIPMENT WILL BE IN PROPER OPERATING CONDITION BEFORE BEING PLACED IN SERVICE. PERFORM FINAL OPERATIONAL TESTS TO DETERMINE THAT WIRING CONNECTIONS ARE CORRECT.

I. MOTORS:
1. MAKE THESE TESTS ON MOTORS BEFORE START-UP: CHECK MOTOR NAMEPLATES FOR HP, SPEED, PHASE AND VOLTAGE.
2. MAKE THESE TESTS ON MOTORS DURING START-UP:
A. CHECK SHAFT ROTATION BEFORE FINAL CONNECTIONS ARE MADE.
B. TAKE A CURRENT READING AT FULL LOAD USING A CLAMP-ON AMMETER. IF AMMETER READING IS OVER THE RATED FULL LOAD CURRENT, DETERMINE REASON FOR THE DISCREPANCY AND TAKE CORRECTIVE ACTION.

3. AFTER ALL CONNECTIONS ARE MADE, TEST MOTORS AND EQUIPMENT FOR PROPER OPERATION. INVESTIGATE CAUSE OF ANY MOTOR OPERATING ABOVE FULL LOAD RATING AND REMOVE CAUSE, OR REPORT TO ARCHITECT/ENGINEER AND/OR OWNER. CHECK ROTATION OF MOTORS.

4. MOTORS SHALL BE GROUNDED BY MEANS OF AN EQUIPMENT GROUNDING CONDUCTOR IN THE SAME RACEWAY WITH MOTOR FEEDER CONNECTED TO A GROUNDING BUSHING AT THE MOTOR TERMINAL BOX AND THE INCOMING CONDUIT GROUNDING BUSHING OF AN INDIVIDUAL MOUNTED MOTOR STARTER. WHERE FLEXIBLE CONDUIT IS USED FOR ALL OR PART OF THE CONDUIT RUN PROVIDE AN EQUIPMENT GROUNDING CONDUCTOR IN THE CONDUIT AND CONNECT TO GROUNDING BUSHINGS AT EACH END OF THE RUN.

J. WIRING DEVICES:
1. TEST WIRING DEVICES FOR PROPER POLARITY AND GROUND CONTINUITY. OPERATE EACH DEVICE AT LEAT SIX TIMES.
2. TEST GFCI OPERATION WITH BOTH LOCAL AND REMOTE FAULT SIMULATIONS AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

K. ACCEPTANCE: OBSERVATION OF THE OPERATION OF THE ELECTRICAL INSTALLATION AND EQUIPMENT BY THE ENGINEER AND/OR OWNER DOES NOT CONSTITUTE ACCEPTANCE OF THE WORK. ACCEPTANCE WILL BE MADE AFTER THE CONTRACTOR HAS ADJUSTED HIS EQUIPMENT, DEMONSTRATED THAT IT MEETS THE REQUIREMENTS OF THE CONTRACT DOCUMENT, AND HAS FURNISHED ALL THE REQUIRED CERTIFICATES.

32. REFER TO MECHANICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL WORK UNDER THIS CONTRACT NOT SHOWN IN THIS SET OF CONTRACT DOCUMENTS PROVIDING ACCORDINGLY.

33. ALL ELECTRICAL WORK SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.

34. EXISTING CONDITIONS: (WHERE APPLICABLE)

A. ALL WORK HEREIN DESCRIBED AND SHOWN ON DRAWINGS AND REQUIRED TO MAKE PROJECT COMPLETE IN EVERY RESPECT, PLUS ANY AND ALL PATCHING NECESSARY SHALL BE DONE TO THE COMPLETE SATISFACTION OF THE ARCHITECT/ENGINEER AND/OR OWNER AND SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. ALL MATERIALS SHALL MATCH EXISTING WHERE APPLICABLE AND ALL CONSTRUCTION AND ALTERATION LEFT IN NEW CONDITION.

B. CONNECTIONS TO EXISTING ELECTRICAL POWER SYSTEM SHALL BE IN COMPLIANCE WITH NEC 220.87 EXCEPTION ASCERTAIN TO OBTAIN MEASURES ON AVERAGE POWER DEMAND FROM THE FACILITY PLANT PERSONNEL IF NOT, ENSURE TO PERFORM SUCH MEASUREMENT PRIOR TO ANY WORK. SUBMIT DISCREPANCIES AND DIFFERENCES TO OWNER REPRESENTATIVE FOR CONSIDERATION AND DECISION BEFORE PROCEEDING.

C. ALL ITEMS TO BE REMOVED SHALL BE REMOVED WITH UTMOST CARE AND WITHOUT DAMAGE AND THOSE ITEMS NOT DESIGNATED TO BE REUSED SHALL BE DELIVERED TO THE OWNER OR DISPOSED OF AS PER HIS WRITTEN INSTRUCTIONS.

D. ALL ALTERATIONS, DEMOLITION AND REMOVAL, CUTTING AND PATCHING AND OTHER WORK NECESSARY FOR CONTRUCTION OF THIS CONTRACT SHALL BE PERFORMED WITHOUT ADDITIONAL COST TO THE OWNER. THIS SHALL INCLUDE REMOVAL, REROUTING, ETC. OF ALL ELECTRICAL ITEMS REQUIRED TO COMPLETE INSTALLATION INTENDED.

E. PATCH OR REPLACE ALL DAMAGED FLOOR, WALL, CEILING, ETC. SURFACES ALTERED TO ACCOMODATE THE NEW CONSTRUCTION. PATCHED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES.

F. ALL CUTTING, PATCHING, DEMOLITION, REPAIRING, REPLACING ETC. NECESSARY UNDER THIS CONTRACT SHALL BE COORDINATED BY THE GENERAL CONTRACTOR. WHERE APPLICABLE COORDINATE WORK WITH UTILITY COMPANIES, LOCAL AND STATE AUTHORITIES HAVING JURISDICTION, OWNER'S REPRESENTATIVES AND ALL APPLICABLE CODES.

G. WHERE ALTERATIONS TAKE PLACE IN OCCUPIED AREAS, CONTRACTOR SHALL CLEAN UP DAILY, AND NOISE SHALL BE KEPT TO A MINIMUM.

H. NONE OF THE SERVICES TO EXISTING BUILDINGS SHALL BE DISRUPTED IN ANY WAY EXCEPT WITH THE WRITTEN PERMISSION OF THE OWNER.

I. ALL EQUIPMENT PRESENTLY "HOT" AND REQUIRED TO BE MAINTAINED SHALL BE RETURNED TO THIS CONDITION AFTER PERFORMING THE CHANGES TO EXISTING BUILDING. REROUTE CONDUITS AND EXTEND OR REPLACE CIRCUITS AS REQUIRED. PERFORM WORK AT CONVENIENCE OF THE OWNER.

J. WHERE DEVICES OR LUMINAIRES ARE SHOWN TO BE REMOVED OR REPLACED ON PLANS, REMOVE OR RECONNECT ALL ASSOCIATED WIRING AND CONDUIT BACK TO THE SOURCE OR MAINTAIN CONTINUITY OF THE CIRCUIT IF OTHER LOADS ARE SERVED FORM THE SAME CIRCUIT. CONSOLIDATE PARTIALLY LOADED BRANCH CIRCUITS TO MAXIMIZE SPACE MADE AVAILABLE AT THE PANELBOARD. TRACE CONSOLIDATED CIRCUITS TO VERIFY THAT THE TOTAL LOAD DOES NOT EXCEED 1920 VOLT AMPERES.

K. EXECUTE ALL WORK IN SUCH A MANNER TO AVOID INTERFERENCE WITH THE USE OF PASSAGE TO AND FROM ADJOINING BUILDING OR AREAS.

L. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY DAMAGE TO EXISTING BUILDING AND TO CONTENTS THEREOF INCLUDING MACHINERY, FURNITURE, EQUIPMENT, ETC.. DAMAGE TO BUILDINGS OR CONTENTS THEREOF DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED AT DIRECTION OF ARCHITECT/ENGINEER AND/OR OWNER, BY THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.

M. CONNECTION TO EXISTING STRUCTURES OR SYSTEMS SHALL BE MADE IN SUCH A MANNER THAT AS LITTLE TIME AS ABSOLUTELY POSSIBLE WILL BE TAKEN, AND CONTRACTOR WILL BE REQUIRED TO COORDINATE FULLY WITH OWNER IN CONNECTION WITH CONVENIENCE AND SAFETY OF ALL PERSONS INVOLVED, INCLUDING EMPLOYEES.

N. CONTRACTOR SHALL COORDINATE ALL WORK WITH OWNER TO DETERMINE OWNER'S REQUIREMENTS REGARDING ACCESS, TIME OF WORK, PROTECTION OF EXISTING CONDITIONS, ETC.

35. ALL FIRE ALARM DEVICE WORK, SHALL BE COORDINATED WITH ARCHITECT/U.S.P.S. REPRESENTATIVE. ALL WORK AT BUILDING FIRE ALARM SYSTEM UNDER THIS CONTRACT, SHALL BE DONE UNDER A SUPERVISED AND CERTIFIED PERSONNEL BY THE BUILDING FIRE ALARM UNIT MANUFACTURER-INSTALLER. VERIFY WITH U.S.P.S. MAINTENANCE REPRESENTATIVE BEFORE ROUGHING-IN (WHEN APPLICABLE). FIRE ALARM SYSTEM WORK PERFORMANCE, SEQUENCE OF OPERATION AND MATERIALS SHALL COMPLY WITH NFPA 72, U.S.P.S SPEC., U.S.P.S. STANDARD DESIGN CRITERIA FIRE PROTECTION SYSTEM SECTION 5-5 AND UNIT MANUFACTURER RECOMMENDATIONS.

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36. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED ARC-FLASH HAZARD WARNINGS MARKING LABELS TO ALL SWITCHBOARDS, PANELS, CONTROL PANELS, ETC. TO COMPLY WITH NEC ART 110.16 REQUIREMENTS.

37. CONTRACTOR SHALL FURNISHED ALL WORK AND MATERIALS NECESSARY FOR A CONPLETE AND SATISFACTORY INSTALLATION OF THE ELECTRICAL SERVICE, AS REQUIRED BY THE LOCAL UTILITY COMPANY, REFER TO U.S.P.S. SPECIFICATIONS.

38. THE ELECTRICAL SERVICE EQUIPMENT MAINS SHALL BE FIELD MARKED IN COMPLIANCE WITH ALL REQUIREMENTS STATED IN NEC SECTION 110.24(A).

39. ALL PANEL BOARDS SUPPLIED BY A FEEDER(S) SHALL BE FIELD MARKED TO INDICATE THE EQUIPMENT WHERE THE POWER ORIGINATES. (NEC 408.4(B))

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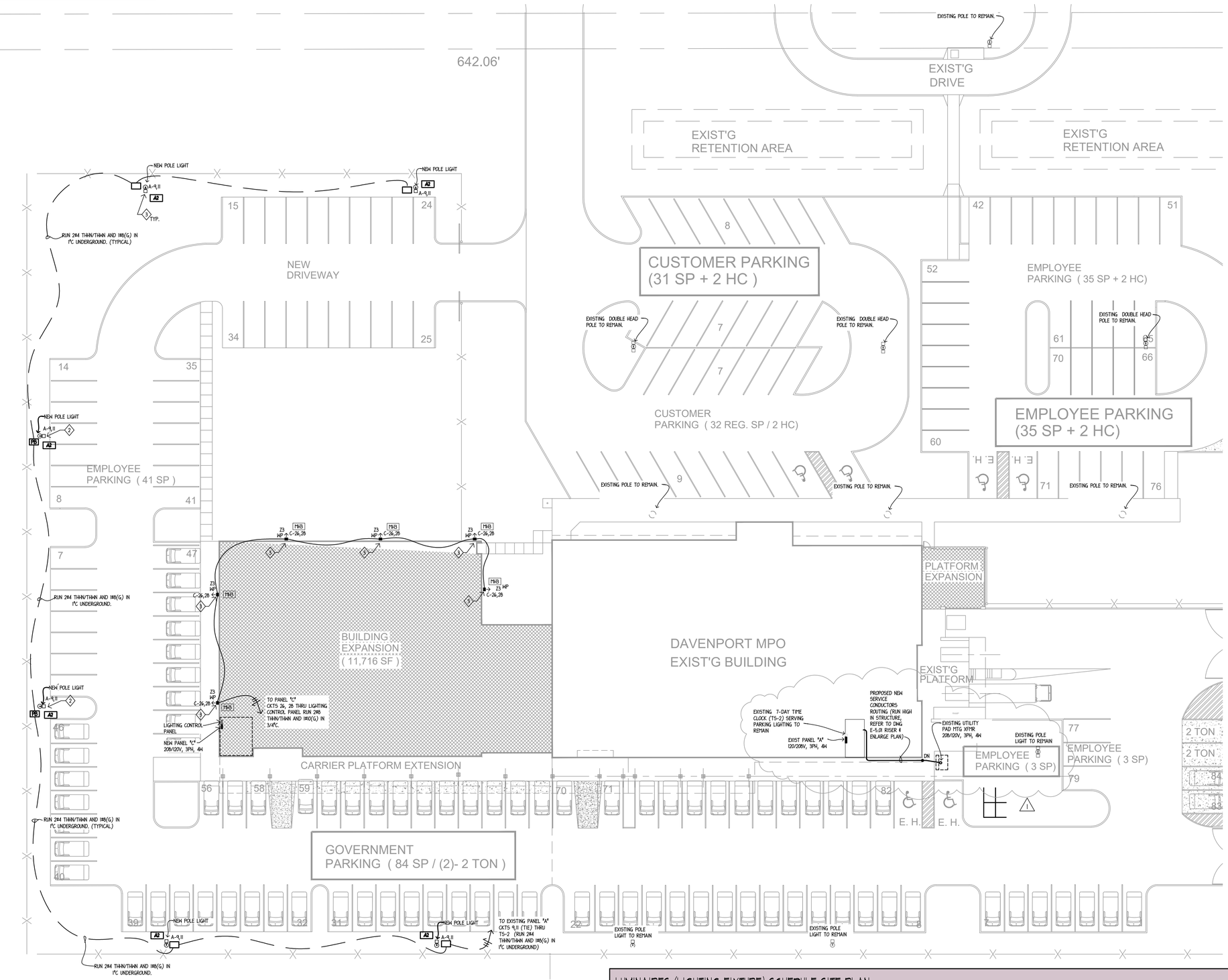
Revisions: 1 UTILITY COORD. 08-15-2022

E-0.01
Scale: NOTED Date: 06/16/22
Project: 21-23
USPS File Number: E54635



SITE PLAN
POWER SERVICE AREA
SCALE: 1/16"=1'-0"

ELECTRICAL NEW WORK KEY NOTES

1	ALL WORK LIGHT FIXTURES TYPE, MANUFACTURER AND INSTALLATION SHALL COMPLY WITH U.S.P.S. STANDARD DESIGN AND SPECIFICATIONS EXTERIOR LIGHTING SECTION 265600
2	AREA LIGHTING CONTROL AND WIRING: SERVICE/EMPLOYEE AREA PARKING SHALL BE WIRED TO EXISTING LOCAL CIRCUITS AND THRU EXISTING CONTACTORS/TIME CLOCKS.
3	FOR SITE PLAN EXTERIOR LIGHT FIXTURES SCHEDULE REFER TO THIS DRAWING. FOR TYPICAL POLE DETAIL, BASE AND PULL-BOX DETAIL AND SIZE REFER TO DETAIL DRAWING E-6.01
4	PROVIDE EQUIPMENT GROUND AND BONDING AS PER N.E.C. 250. FURNISHED A GREEN GROUND WIRE TO ALL EXTERIOR LIGHTING CIRCUITS. CONTRACTOR SHALL PROVIDE GROUND BONDING TO METAL POLES AS REQUIRED, REFER TO DETAIL DRAWING E-6.01.
5	PROVIDE EXTERIOR LIGHT POLES, AREA FIXTURES ETC. WITH AN IN-LINE FUSES FOR SERVICE AND PROTECTION, SIZE AS RECOMMENDED BY MANUFACTURER.
6	PROVIDE A NEW 26 FT HAPCO CATALOG NUMBER RTA26D6B4 OR EQUIVALENT AS SHOWN IN FIXTURE SCHEDULE AND/OR LIGHTING SPECS., FINISH TO MATCH EXISTING, CONTRACTOR SHALL VERIFY REQUIRED LIGHT FIXTURE MOUNTING TYPE AND PROVIDE ALL ADEQUATE, STEMS, BASES, TENONS, LIGHTING BASE SUPPORTS, TRIMS, LEVELERS, BOLT HARDWARE ETC. REQUIRED FOR A COMPLETE POLE/LIGHT INSTALLATION, AS APPLICABLE.

NOTES TO CONTRACTOR

1. ALL WORK SHALL BE DONE IN ACCORDANCE TO LATEST N.E.C. AND LOCAL CODES AND ORDINANCES. CONTRACTOR SHALL COMPLY WITH U.S.P.S. LATEST STANDARD DESIGN CRITERIA. (HANDBOOK AS-503). SEE INSTALLATION METHODS AND APPROVED MANUFACTURERS.
2. LIGHT FIXTURE LAYOUTS INDICATED ON THE PLANS ARE SHOWN FOR REFERENCE ONLY WITH UNIT MANUFACTURERS AND MODELS AS SHOWN. FINAL EXACT FIXTURE LOCATIONS SHALL BE DETERMINED AT FIELD WITH EXISTING CONDITIONS, BUILDING STRUCTURE, EQUIPMENT, UNDERGROUND RACEWAYS, PIPING ETC.
3. FOR PANEL SCHEDULE(S) AND RISER DIAGRAM REFER TO DRAWINGS E-5.01 TO AND E-5.02
4. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN DESCRIBING ALL CIRCUITS AS SHOWN ON PANEL SCHEDULES.
5. PROVIDE EQUIPMENT GROUND AND BONDING AS PER N.E.C. 250. FURNISHED A GREEN GROUND WIRE TO ALL LIGHTING CIRCUITS.
6. PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.
7. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL ELECTRICAL DEMOLITION AT SITE AREAS AS REQUIRED AS SHOWN ON PLANS. REMOVE ALL RACEWAYS, CONDUCTORS, J-BOXES, DEVICES, ETC NECESSARY FOR A COMPLETE AND SATISFACTORY INSTALLATION.
8. ALL MATERIALS, DEVICES, FIXTURES SHALL BE LISTED AND BEAR WITH THE STANDARDS OF UNDERWRITERS LABORATORIES (U.L.) OR ANY APPROVED NATIONALLY RECOGNIZED LABORATORY

LUMINAIRES (LIGHTING FIXTURE) SCHEDULE SITE PLAN

	TYPE	DESCRIPTION	LAMPS	MANUFACTURER CATALOG No.	VOLTS	LUMENS/WATTS	MOUNTING/HEIGHT	APPROVED MANUFACTURER	REMARKS
2	A2	CARRIER/SERV. LED AREA LIGHTING FIXTURE AND POLE	LED-80CRI-P3-40K TFTM FORWARD THROW	LED-LITHONIA: DSXI LED P3 40K TFTM MVOLT.	MVOLT (208V)	12,575 / 102	POLE-BASE / 29'	SPECS. APPROVED	26FT NOM. HT. SQUARE ALUMINUM POLE MFG. BY LITHONIA MOD# SSA-26-6J-BL OR EQUIV. (COLOR TO MATCH EXISTING) (2)
6	M18	EXTERIOR WALL FIXTURE	CROSSTOUR 26W WALL MOUNTED LED	COOPER LIGHTING LURMARK CAT# XTOR3B-W-4000K-BZ	208V	2100 / 18	WALL / 14'-0" A.F.F.	SPECS. APPROVED	

NOTES:
(1) ALL LIGHT FIXTURE MANUFACTURER AND TYPE TO COMPLY WITH U.S.P.S. DESIGN CRITERIA AND SPECIFICATIONS.

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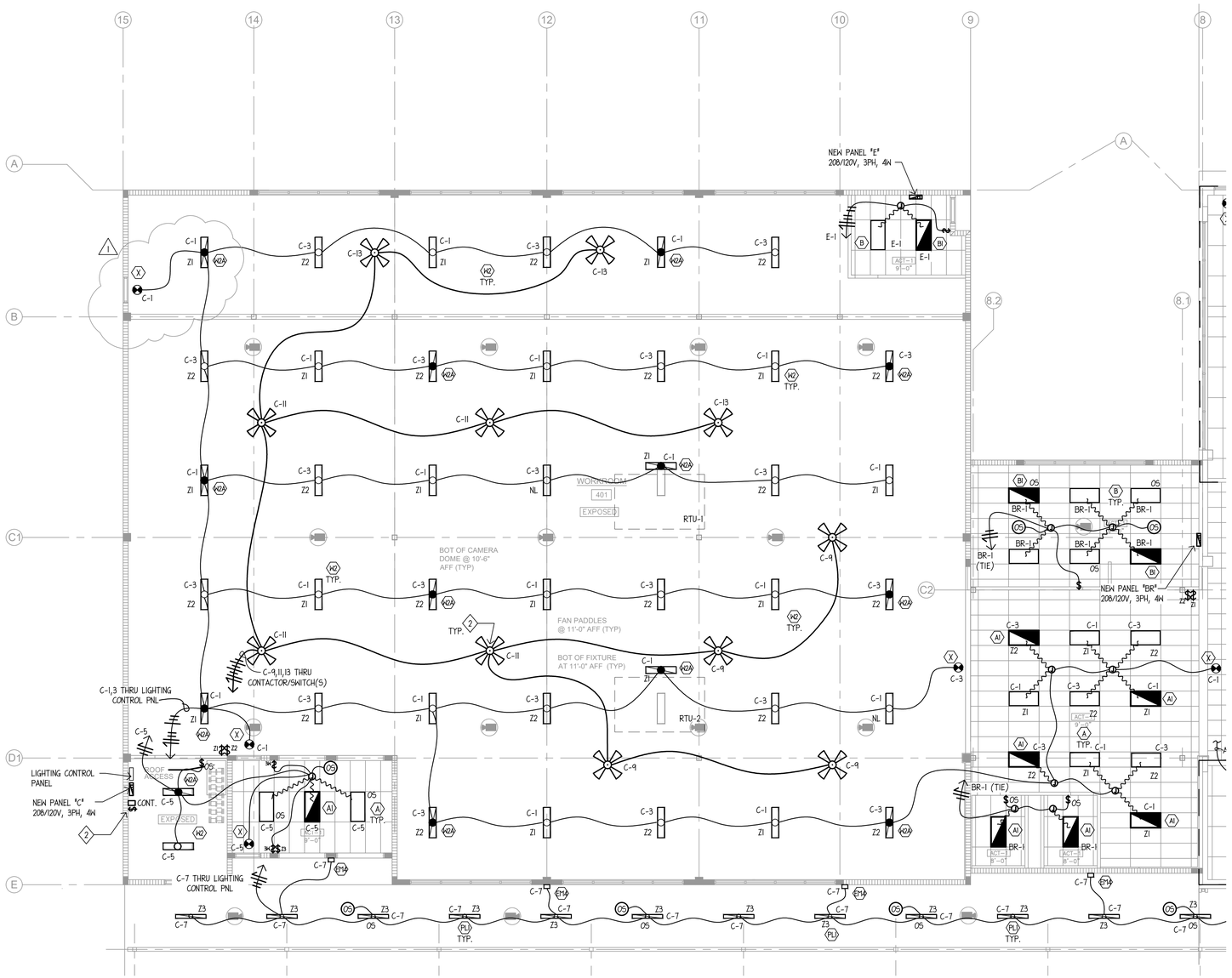

FLOOR PLAN
LIGHTING WEST

SCALE: 1/8"=1'-0"

CONTROL PANEL SERVING PANEL "B"

CONTROL PANEL 1 OF 2

ZONE DESIGNATION	DESCRIPTION AREA SERVED	CIRCUITS	SETUP OPERATING TIMES (3)	OVERRIDE BY	REMARKS
Z1	WORKROOM AREA LIGHTS	CKT C-1	BY U.S.P.S. REP.	LOCAL SW	
Z2	WORKROOM AREA 50% LEVEL	CKT C-3	BY U.S.P.S. REP.	LOCAL SW	SEE NOTE (2)
Z3	CARRIER LOADING PLATFORM OPEN AREA LIGHTING	CKT C-7	BY U.S.P.S. REP.	OCCUPANCY SENSOR-50%, OVERRIDE BY PHOTOCELL	SEE NOTE (1)
Z4	BUILDING PERIMETER WALL LIGHTS	CKT C-40,42	BY U.S.P.S. REP.		

NOTES:
(1) AT OPEN PLATFORMS, MAIL AND CARRIERS PLATFORMS PROVIDE OCCUPANCY SENSORS SET TO 45MIN, TO REDUCE LIGHTING LEVELS TO 50% WITH OCCUPANCY PRESENCES (BI-LEVEL OPERATION), AND CONTROLLED BY LIGHTING CONTROL PANEL WORKING HOURS TIME SETUP AND OVERRIDE BY A CONTROL PANEL SYSTEM PHOTOCELL.
(2) CONTRACTOR SHALL PROGRAM THE LIGHTING CONTROL ZONES TO OPERATING HOURS INDICATED BY A U.S.P.S. REPRESENTATIVE. (SEE LIGHTING SPECS.)
(3) LIGHT CONTROL PANELS SHALL BE FULLY PROGRAMMABLE AND NETWORK ACCESSIBLE VIA CAT 6 WITH RJ45 BETWEEN THEM AND THE OVERRIDE DIGITAL SWITCHES REFER TO ELECTRICAL U.S.P.S. SPECS. REQUIREMENTS.
(4) PROPOSED LOCATION AT EXPANSION WORKROOM AREA NEXT TO NEW PANEL 'C', VERIFY FINAL LOCATION OF CONTROL PANEL WITH USPS REP./ARCHITECT BEFORE ROUGHING-IN.

ELECTRICAL NEW WORK KEY NOTES

1	DENOTES REFER TO LIGHT FIXTURE SCHEDULE THIS DRAWING. LIGHT FIXTURE TYPE "W2"
2	PROVIDE A N/O CONTACTOR SERVING CEILING FANS AT WORKROOM AREA. PROVIDE A CONTROL SWITCH LOCATED AT WORKROOM AREA, ELECTRICAL ROOM AREA OR AS DIRECTED BY U.S.P.S. REPRESENTATIVE, COORDINATE BEFORE ROUGHING-IN. INTERLOCK CONTACTOR WITH FA SEQUENCE OF OPERATION SHUT DOWN SIGNAL TO OVERRIDE INTERIOR FANS. (FIRE ALARM INTERFACE)
3	EXTERIOR OPEN PLATFORMS: THE LIGHTING WITHIN EXTERIOR, MAIL AND CARRIER PLATFORMS (AMBIENT LIGHTING) MUST BE PROVIDED WITH BI-LEVEL CONTROL (0%, 50% TO 100%). PROVIDE OCCUPANCY SENSOR WITHING THE AREA TO REDUCE LIGHTING LEVEL TO 50%, CIRCUIT WIRED THRU CONTROL PANEL PHOTO-SENSOR THAT SHALL BE AUTOMATICALLY OVERRIDE THE EXTERIOR LIGHT CIRCUITS FROM ANY LEVEL TO 0% (OFF). (DESIGN CRITERIA SECC 5-3.1.3)
4	COORDINATE EXACT LIGHT FIXTURE LOCATIONS WITH STRUCTURE AND ARCHITECT PLANS. ALL WORK SHALL BE DONE AS PER ELECTRICAL SPECS INTERIOR LIGHTING SECTION 265100
5	CONTRACTOR SHALL WIRE EXIT AND EMERGENCY FIXTURES BATTERY CHARGERS, TO A LOCAL LIGHT CIRCUIT AND AHEAD OF ANY LOCAL SWITCH-CONTROL CIRCUIT 'ON ALL TIMES' TO MAINTAIN BATTERY CHARGE.

NOTES TO CONTRACTOR

1. ALL WORK SHALL BE DONE IN ACCORDANCE TO LATEST N.E.C. AND LOCAL CODES AND ORDINANCES. CONTRACTOR SHALL COMPLY WITH U.S.P.S. INSTALLATION METHODS AND APPROVED MANUFACTURERS AND TYPES (LED-SOLID STATE) OF INTERIOR LIGHTING SPECIFICATIONS SECTION 265100.
2. CEILING AND LIGHT FIXTURE LAYOUTS INDICATED ON THE PLANS ARE SHOWN FOR REFERENCE ONLY. FINAL EXACT FIXTURE LOCATIONS SHALL BE DETERMINED AT FIELD WITH EXISTING CONDITIONS, BUILDING STRUCTURE, MECHANICAL EQUIPMENT, RACEWAYS, AND PIPING ETC.
3. FOR PANEL SCHEDULE(S) AND RISER DIAGRAM REFER TO DRAWINGS E-5.01 TO AND E-5.02
4. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN DESCRIBING ALL CIRCUITS AS SHOWN ON PANEL SCHEDULES.
5. PROVIDE EQUIPMENT GROUND AND BONDING AS PER N.E.C. 250. FURNISHED A GREEN GROUND WIRE TO ALL LIGHTING CIRCUITS.
6. PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.
7. CONTRACTOR SHALL VERIFY CEILING CONSTRUCTION AND LIGHT FIXTURE MOUNTING TYPE AND PROVIDE ALL ADEQUATE, STEMS, CHAINS, LIGHTING SUPPORTS, TRIMS, ETC. REQUIRED FOR A COMPLETE INSTALLATION, WHEN APPLICABLE.
8. ALL MATERIALS, DEVICES, APPLIANCES, FIXTURES SHALL BE LISTED AND BEAR WITH THE STANDARDS OF UNDERWRITERS LABORATORIES (U.L.) OR ANY APPROVED NATIONALLY RECOGNIZED LABORATORY

DEMOLITION NOTES

1. CONSULT AND COORDINATE AT FIELD LIMITED DEMOLITION WITH ARCHITECT/USPS REPRESENTATIVE, PRIOR TO THE EXECUTION OF WORK IN MARKED AREAS. ELECTRICAL DEMOLITION SHALL BE PERFORMED AS SHOWN ON NOTES AND DEMOLITION RISER (WHEN APPLICABLE). PROVIDE THE NECESSARY DEMOLITION OF EXISTING ELECTRICAL EQUIPMENT FOR A COMPLETE AND SATISFACTORY REMODEL OF THE AREAS UNDER THIS CONTRACT. WORK CONSIST OF BUT IS NOT LIMITED TO THE FOLLOWING:
2. FROM MARKED FLOOR PLAN AREAS, REMOVE ALL REQUIRED LUMINARIES, EXIT LIGHTS, EMERGENCY LIGHTS WITH BATTERY UNITS, RECEPTACLES, SWITCHES, DISCONNECTS, ELECTRICAL EQUIPMENT, FLOOR OUTLETS, FANS, MOTOR CONNECTIONS, APPLIANCES, CONTROLS, TELEPHONE OUTLETS, DATA OUTLETS, DEVICES, CAMERAS, ETC., ETC., AND ALL ASSOCIATED WIRING INCLUDING RACEWAYS, CABLE TRAYS AND CONDUCTORS NOT TO BE RE-USED IN THIS REMODEL.
3. ALL EXISTING EXPOSED CONDUITS (RACEWAYS), J-BOXES AND PULL BOXES NOT REUSED SHALL BE REMOVED, COORDINATE WITH NEW WORK PLANS BEFORE ROUGHING-IN.
4. LEAVE ALL ELECTRICAL EQUIPMENT NOT UNDER THIS CONTRACT IN OPERATING CONDITIONS, VERIFY BEFORE ROUGHING-IN.
5. ELECTRICAL DEMOLITION SHALL BE PERFORMED IN A WAY, THAT EXISTING SERVICES AND PROVISIONS TO REMAIN ARE NOT INTERRUPTED OR INTERRUPTED SHORTLY AND REMAIN IN OPERABLE ORIGINAL CONDITIONS.
6. NOT USED

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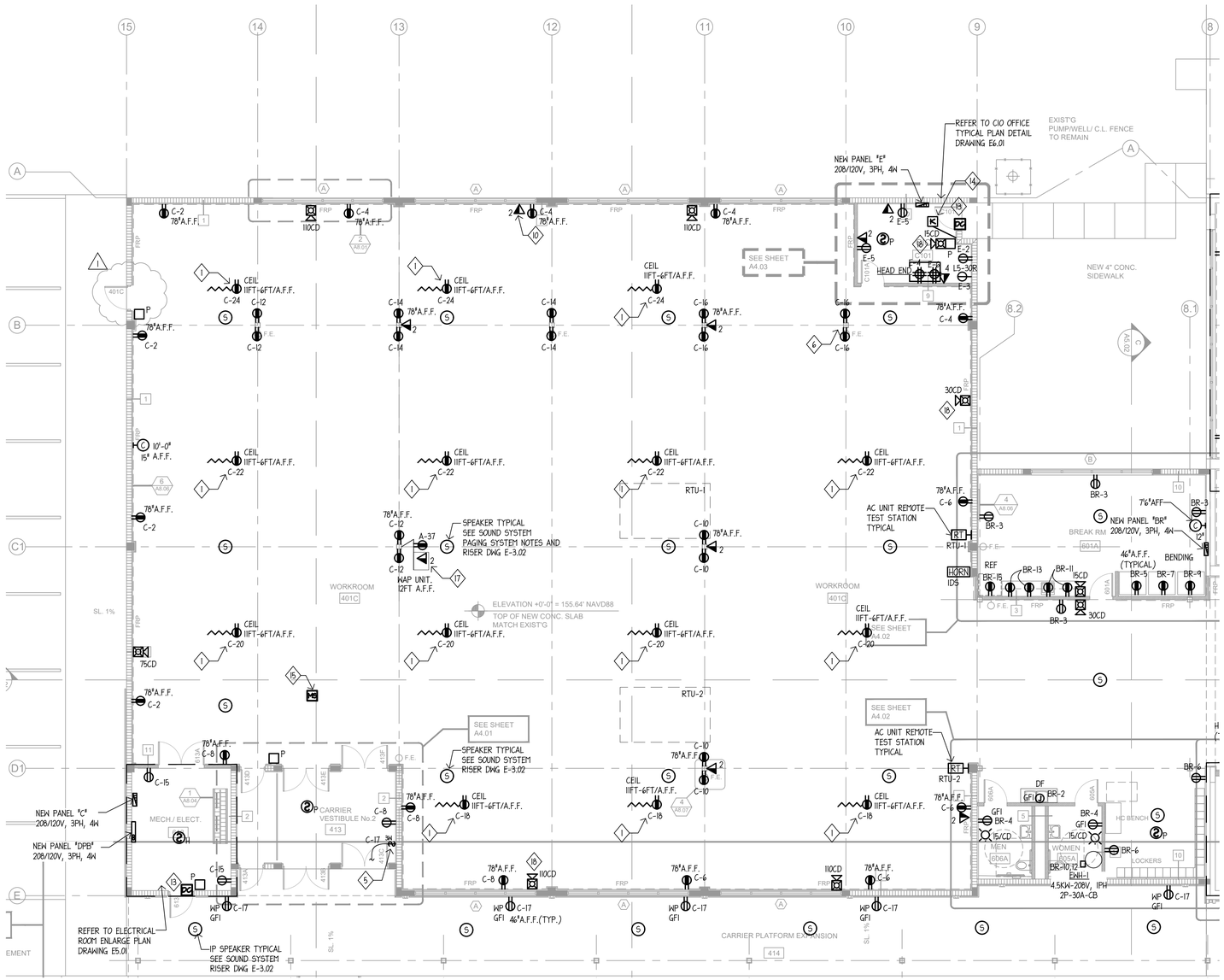
UTILITY COORD. 08-15-2022
Revisions:

E2.01

Scale: NOTED Date: 06/16/22
Project: 21-23
USPS File Number: 554835



FLOOR PLAN
BUILDING POWER- WEST

SCALE: 1/8"=1'-0"

ELECTRICAL NEW WORK KEY NOTES

1	A TWIST LOCK GROUNDING TYPE RECEPTACLE, NEMA L5-20R WITH DROP CORD LOCATED IN A GRID PATTERN (ONE PER 625 SF, BOX AT 11FT AFF MIN. AND RECEPTACLE AT 6'-6" A.F.F.), REFER TO USPS DESIGN CRITERIA REQUIREMENTS. REFER TO DETAIL. PROVIDE KELLUM WIRE REINFORCEMENTS AT CORD AND RECEPTACLE. SEE DETAIL AT DRAWING E6.01
2	REFER TO ELECTRICAL SPECIFICATIONS FOR A COMPLETE MATERIAL AND INSTALLATION REQUIREMENTS INFORMATION.
3	PROVIDE RIGID GALVANIZED STEEL CONDUITS AND FITTINGS TO EXPOSED RACEWAYS ABOVE FINISH FLOOR TO 8 FT AFF., THEN EMT SHALL BE USED ABOVE 8FT IN DRY INTERIOR SPACES. CONCRETE ENCASE RACEWAYS SHALL BE PVC SCHEDULE 40, DIRECT BURIAL RACEWAYS SHALL BE PVC SCHEDULE 40 WITH RG ELBOWS OR RIGID GALVANIZED STEEL. ALL INTERIOR POWER, LIGHTING AND LINE VOLTAGE CONTROL CONDUCTORS SHALL RUN IN RACEWAYS.
4	CONTRACTOR SHALL PROVIDE ALL RACEWAYS (EMPTY CONDUIT SYSTEM WITH NYLON PULL STRING) NECESSARY FOR LINE VOLTAGE CONTROL WIRING, CONDUCTORS FURNISHED AND INSTALLED BY MECHANICAL, COORDINATE ALL REQUIREMENTS AND EXACT LOCATIONS WITH MECHANICAL CONTRACTOR WHEN NECESSARY.
5	ALL POWER OUTLETS IN CARRIER PLATFORM SHALL BE SWITCHED FROM WORKROOM SIDE, LABEL SWITCH ACCORDINGLY.
6	RECEPTACLES INSTALLED 8FT AWAY OR LESS FROM A FIRE EXTINGUISHER SHALL BE EQUIPPED WITH A LOCKING COVER STAINLESS STEEL TYPE.
7	FOR FIRE ALARM TYPICAL RISER AND NOTES REFER TO DRAWING E-5.01, VERIFY DEVICES EXACT LOCATIONS AT FIELD.
8	HERR (TIME CLOCK SYSTEM) PROVISIONS. CONTRACTOR SHALL FURNISHED REQUIRED POWER AND DATA OUTLETS AT LOCATION SET BY USPS REPRESENTATIVE/ ARCHITECT, VERIFY EXACT LOCATION BEFORE ROUGHING-IN
9	CONTRACTOR SHALL PROVIDE RIGID RACEWAYS (EMPTY CONDUIT SYSTEM WITH NYLON PULL STRING) NECESSARY FOR ALL TERMINATIONS OF TELECOMMUNICATIONS OF OUTLETS CABLES VERTICAL RUNS.
10	TELECOMMUNICATION OUTLET (TYPICAL). FOR TELECOMMUNICATIONS/DATA AND SECURITY EQUIPMENT LAYOUT, REFER TO DETAILS AT DRAWING E6.02. REFER TO LEGEND TELECOMMUNICATIONS OUTLET BOXES FOR T/OS SHALL BE DOUBLE GANG 2.5 IN. DEEP WITH SINGLE GANG TRIM RING AND COVER PLATE. TELECOMMUNICATIONS OUTLETS (T/OS) SHALL BE WALL MOUNTED AT 20" A.F.F. TO TOP OF OUTLET AT OFFICE AREAS AND AT 78" A.F.F. AT WORKROOM AREAS, UNLESS OTHERWISE NOTED. "4" DENOTES OUTLET QUAD-PLEX. "6" DENOTES SIX-PLEX TYPE OF OUTLET. TELECOMMUNICATIONS-DATA AND SECURITY EQUIPMENT LAYOUT, REFER TO TYPICAL DETAILS AT DRAWING E-6.02. COORDINATE ALL EXACT LOCATIONS WITH A U.S.P.S. REPRESENTATIVE BEFORE ROUGHING-IN. MAXIMUM HORIZONTAL CABLING DISTANCES MUST NOT EXCEED 295 FT. FOR A STANDARD TELECOMMUNICATIONS OUTLET. THIS HORIZONTAL DISTANCE IS TO INCLUDE ALL VERTICAL DISTANCES PLUS REQUIRED SERVICE LOOPS.
11	FOR EQUIPMENT GROUNDING AND BONDING OF ALL EQUIPMENT PROVIDE A 6" GROUND BUS WITH #6 THHN/THWN-CU GROUND WIRE TO ELECTRICAL SERVICE GROUND, COMPLETED IN ACCORDANCE WITH THE EIA/TIA-607-A SPECIFICATIONS AS WELL THE NFPA-70 NEC AND ANY APPLICABLE LOCAL CODES. REFER TO RISER DIAGRAM DWG E-5.01 AND USPS SPECIFICATIONS SECTION 271100.
12	EXISTING INTRUSION DETECTION SYSTEM (IDS), VERIFY AT FIELD EQUIPMENT TYPE AND MANUFACTURER. COORDINATE ADDITIONAL DEVICES AND PROVIDE NECESSARY EQUIPMENT FOR ADDITIONAL DEVICES AND NEW WIRING REQUIREMENTS. SEE SPECIFICATION SECTION 281600. VERIFY AT FIELD ALL IDS DEVICES EXACT LOCATIONS WITH ARCHITECT/U.S.P.S. REPRESENTATIVE BEFORE ROUGHING-IN.
13	INTRUSION DETECTION SYSTEM DOOR SWITCH, CONTRACTOR SHALL VERIFY AT FIELD EXACT LOCATION AND MOUNTING TYPE WITH DOOR STYLE AND FRAMING.
14	INTRUSION DETECTION SYSTEM KEYPAD LOCATED AT ENTRANCES, COORDINATE EXACT LOCATIONS WITH ARCHITECT/U.S.P.S. REPRESENTATIVE.
15	CEILING MOUNTED AREA MOTION DETECTOR. HOME RUN WIRING TO ALARM PANEL. SEE SPEC INTRUSION DETECTION SYSTEMS FOR ROUTING REQUIREMENTS. VERIFY AT FIELD MOTION SENSOR EXACT LOCATIONS BEFORE ROUGHING-IN.
16	EXISTING SOUND SYSTEM INTEGRATED WITH ZONE PAGING SYSTEM THRU THE PHONE SYSTEM. REFER TO SPECS INTEGRATED, PUBLIC ADDRESS ZONE PAGING SYSTEM SECTION 275116. PROVIDE PAGING SPEAKERS THRU WORKROOM, INTERIOR AND EXTERIOR PLATFORMS, MAINTENANCE AREAS, LUNCH ROOM, LOCKER ROOMS AND CORRIDORS WIRED TO MATCH EXISTING) (CAT-6 CABLING BY SOUND/ COMMUNICATION CONTRACTOR); PROVIDE EQUIPMENT SHOP DRAWINGS BEFORE COMMENCING THE JOB. ELECTRICAL CONTRACTOR SHALL PROVIDE AL NECESSARY POWER AND BASIC PROVISIONS FOR A COMPLETE OPERABLE SYSTEM. SEE TYPICAL RISER DIAGRAM DWG E-3.02
17	PROVIDE A DUPLEX RECEPTACLE AND TWO CATEGORY 6A CABLE RUNS PER WAP, AS SPECIFIED BY RALEIGH WIRELESS PREDICTIVE WAP PLACEMENT. DUPLEX T/O SHALL BE MOUNTED AT 12 FT. AFF ONTO FIRE RESISTANT WOOD BASE MOUNT. VERIFY EXACT LOCATIONS WITH U.S.P.S. REPRESENTATIVE BEFORE ROUGHING-IN.
18	FIRE ALARM SYSTEM PANEL EXISTING TO REMAIN. (SIMPLEX 4102) ALL FIRE ALARM DEVICE WORK, SHALL BE COORDINATED WITH ARCHITECT/U.S.P.S. REPRESENTATIVE. ALL WORK AT BUILDING FIRE ALARM SYSTEM UNDER THIS CONTRACT, SHALL BE DONE UNDER A SUPERVISED AND CERTIFIED PERSONNEL BY FIRE ALARM UNIT MANUFACTURER-INSTALLER. FIRE ALARM SYSTEM INSTALLATION WORK AND MATERIALS SHALL COMPLY WITH U.S.P.S SPECIFICATION SECTION 283100 AND THE U.S.P.S. STANDARD DESIGN CRITERIA SECT. 5-5 OF THE FIRE PROTECTION SYSTEM AND UNIT MANUF. RECOMMENDATIONS.
19	PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.

IDS ZONE REQUIREMENTS

AREA OF COVERAGE	ZONE ASSIGNMENT
WORKROOM	ZONE 1
SAFES / VAULT	ZONE 2
RETAIL COUNTER	ZONE 3
MERCHANDISING AREAS	ZONE 4
ADMIN OFFICES AND CORRIDOR	ZONE 5
REGISTRY CAGE	ZONE 6
INVESTIGATIVE OFFICE (CIO) (PROGRAMMED AREA 2)	ZONE 7
BUSINESS MAIL ENTRY UNIT (BMEU)	ZONE 8
ELECTRICAL ROOM	ZONE 9

NOTES TO CONTRACTOR

1. ALL WORK SHALL BE DONE IN ACCORDANCE TO U.S.P.S. DESIGN CRITERIA AND CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL INSTALL CIRCUIT PROTECTION AND WIRING SERVING AIR CONDITIONING EQUIPMENT TO COMPLY WITH N.E.C. ART. 440 REQUIREMENTS. VERIFY EXACT LOCATIONS WITH MECHANICAL EQUIPMENT AT FIELD.
3. PROVIDE ADEQUATE CLEARANCES AND DEDICATED SPACE AROUND ALL ELECTRICAL EQUIPMENT (DISCONNECTS, PANELS, VFD'S, ETC.) TO COMPLY WITH N.E.C. ART. 110 REQUIREMENTS.
4. PROVIDE EQUIPMENT GROUND AND BONDING PER N.E.C. 250.
5. ALL WORK IN FIRE ALARM EQUIPMENT AND DEVICES SHALL BE MADE UNDER DIRECT SUPERVISION OF A QUALIFIED TECHNICAL REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER, WHO SHALL TEST THE SYSTEM COMPLETELY AND CERTIFICATE IN WRITHING AS TO PROPER INSTALLATION AND OPERATION OF THE FIRE ALARM PRIOR TO THE FINAL ACCEPTANCE OF THE SYSTEM BY THE OWNER.
6. PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.
7. CONTROL WIRING SHALL BE ROUTED IN CONDUIT. COORDINATE WITH CONTROLS AND MECHANICAL CONTRACTOR, ALL RACEWAYS FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.

LIGHTNING PROTECTION NOTES

1	ELECTRICAL CONTRACTOR SHALL PROVIDE A LIGHTNING PROTECTION SYSTEM TO THE EXISTING AND NEW BUILDING ADDITION. (FLOOR PLAN AND LAYOUT DRAWINGS NOT SHOWN) LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO AN UNDERGROUND COUNTERPOISE IN ACCORDANCE WITH NFPA 780. FURNISHED SHOP DRAWINGS FOR APPROVAL PRIOR INSTALLATION.
2	THE LIGHTNING PROTECTION SYSTEM REQUIRES A SURGE PROTECTION DEVICE TO BE INSTALLED ON EACH ELECTRIC SERVICE ENTRANCE. THESE SURGE PROTECTION DEVICES MUST BE A TYPE I OR TYPE 2 SURGE PROTECTION DEVICE THAT IS LISTED TO COMPLY WITH UL 1449, 4TH EDITION AND HAVE A NOMINAL DISCHARGE CURRENT (IN) OF 20KA PER PHASE.
3	LIGHTNING SYSTEM SHALL BE INSTALLED BY A QUALIFIED TECHNICAL LICENSED INSTALLER OF THE EQUIPMENT MANUFACTURER, WHO SHALL INSPECT, TEST THE SYSTEM COMPLETELY AND CERTIFICATE IN WRITHING AS TO PROPER INSTALLATION OF THE LIGHTNING PROTECTION SYSTEM PER UL "96A" OF UNDERWRITERS LABORATORIES INC., PRIOR TO THE FINAL ACCEPTANCE OF THE SYSTEM BY THE OWNER.
4	ALL WORK SHALL BE DONE IN ACCORDANCE TO U.S.P.S. DESIGN CRITERIA AND U.S.P.S. CONSTRUCTION SPECIFICATIONS SECTIONS 264128 AND 264100
5	NOT USED

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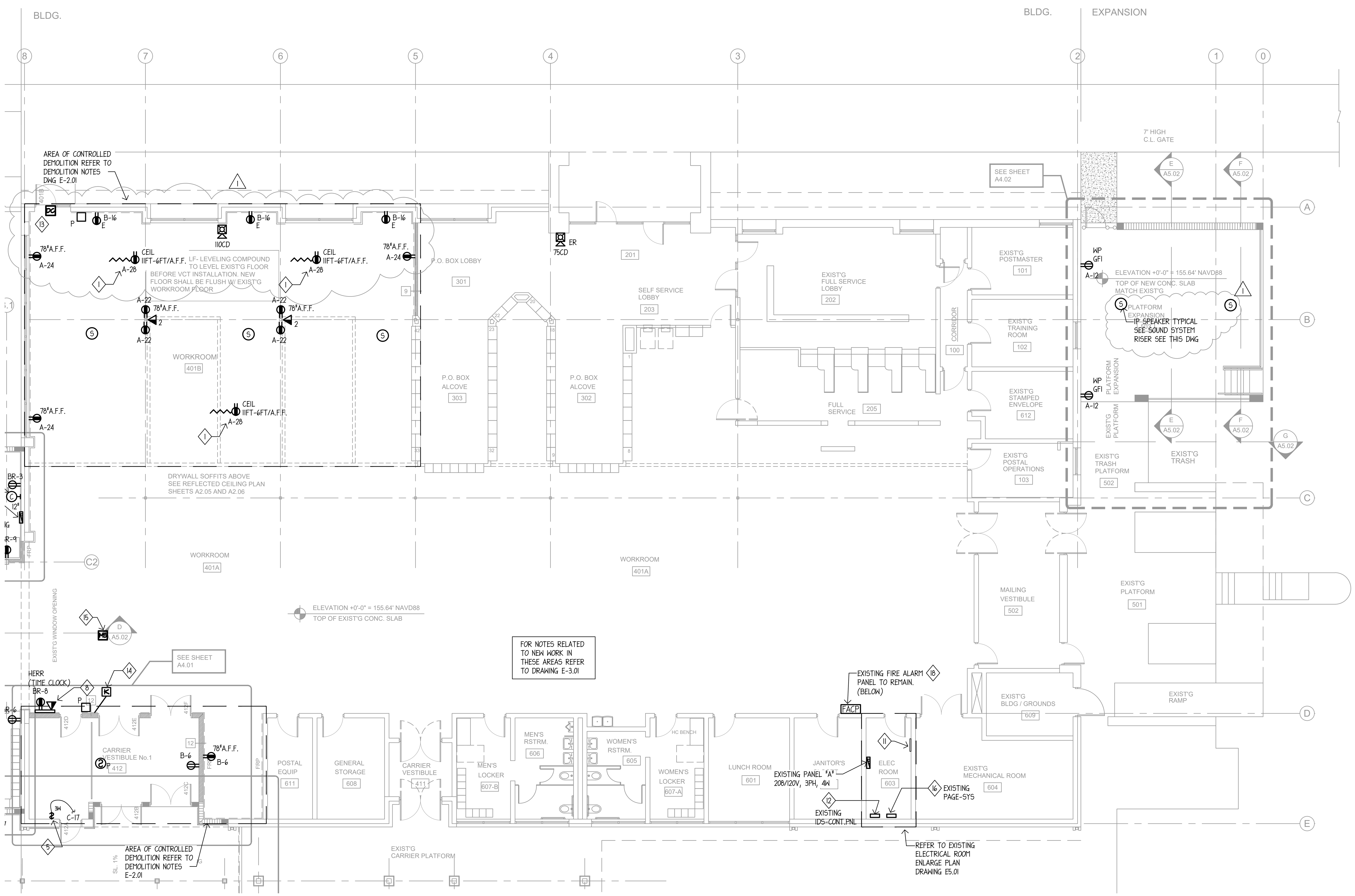
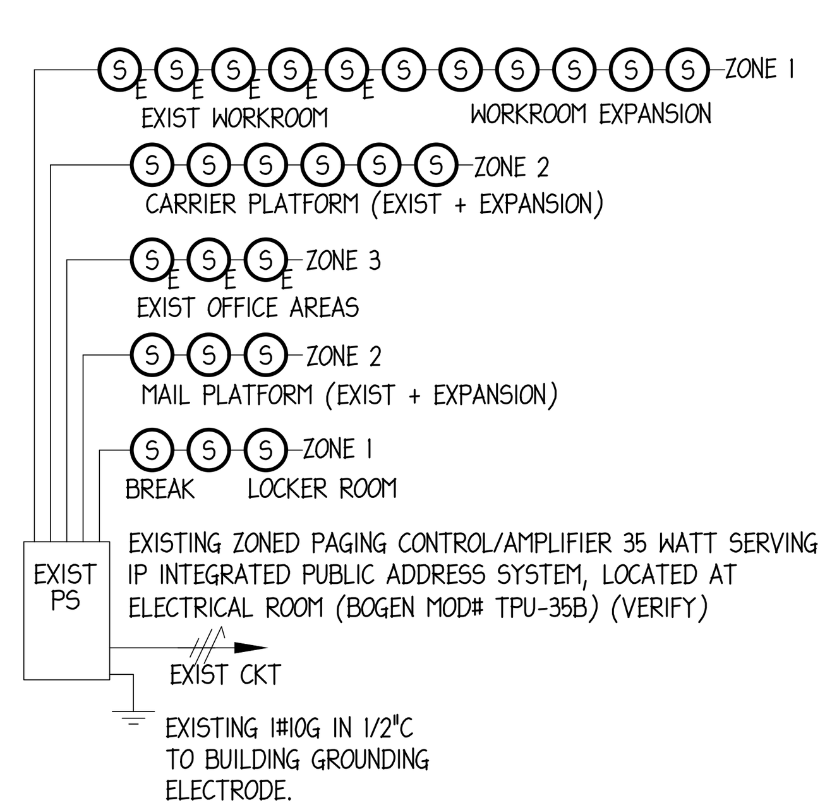
UTILITY COORD. 08-15-2022
Revisions:

E3.01

Scale: NOTED Date: 06/16/22
Project: 21-23
USPS File Number: 554635



FLOOR PLAN
BUILDING POWER- EAST
SCALE: 1/8"=1'-0"



PAGING SYSTEM
N.T.S.

PAGING SYSTEM KEY NOTES

1	ALL WORK AT THE EXISTING INTEGRATED PUBLIC ADDRESS ZONE PAGING SYSTEM-SOUND SYSTEM (BOGEN MOD TPU-60B) SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS AND U.S.P.S. CONSTRUCTION SPECIFICATIONS SECTION 275116.
2	ALL DEVICES INSTALLED, EXTENDERS, EXPANDERS AND PROVISIONS SHALL BE UL LISTED, AND THE SAME MANUFACTURER COMPATIBLE WITH SYSTEM AND APPROVED FOR THE PURPOSE WHICH THEY ARE INTENDED, TO MATCH EXISTING.
3	FOR SYSTEM REQUIREMENTS AND INSTALLATION RECOMMENDATIONS REFER TO USPS SPECIFICATION 275116 AND EXISTING UNIT MANUFACTURER INSTALLATION INSTRUCTIONS.
3	INSTALLATION SHALL BE MADE BY A QUALIFIED TECHNICAL REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER, EXPERIENCED IN THE DESIGN, INSTALLATION, TESTING, AND MAINTENANCE OF THE IP PAGING SYSTEM.
4	ALL SOUND SYSTEM INTEGRATED SPEAKERS EXACT LOCATIONS AND PUBLIC ADDRESS ZONED ASSIGNATIONS SHALL BE COORDINATED WITH ARCHITECT/U.S.P.S. REPRESENTATIVE, BEFORE ROUGHING-IN

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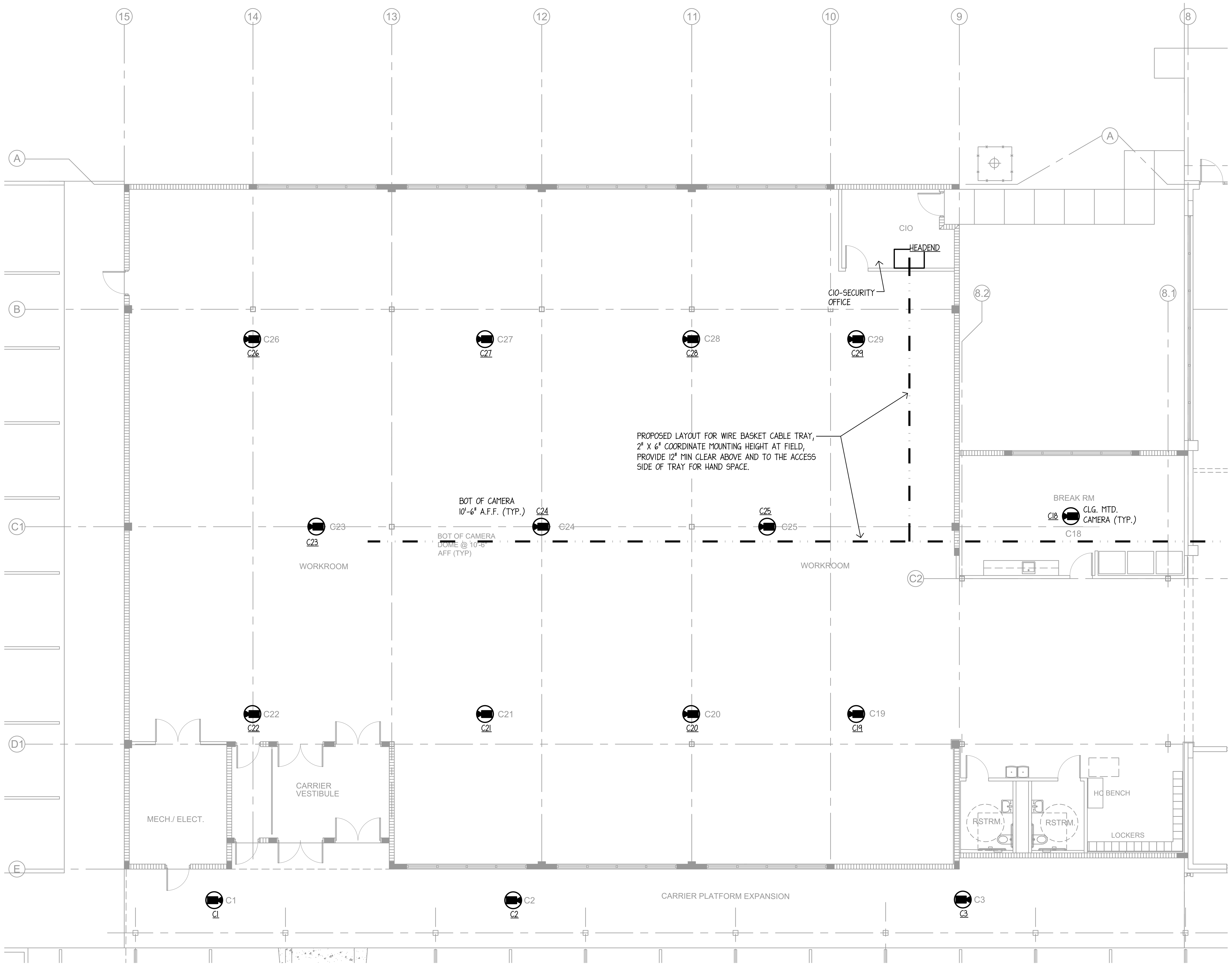
Revisions: 1 UTILITY COORD. 08-15-2022

E3.02
Scale: NOTED Date: 06/16/22
Project: 21-23
USPS File Number: E54635



FLOOR PLAN
CAMERA SYSTEM BUILDING WEST

1 SCALE: 1/8"=1'-0"

CAMERAS NEW WORK KEY NOTES

1	ALL WORK SHALL BE DONE IN ACCORDANCE TO U.S.P.S. DESIGN CRITERIA AND U.S.P.S. CONSTRUCTION SPECIFICATIONS SECTION 282305 - INTRUSION DETECTION SYSTEM SECTION 282304 - ANALOG CCTV SYSTEM. ALL CAMERAS SHOWN ON FLOOR PLAN ARE NEW SERVING A NEW INTRUSION DETECTION AND MONITORING SYSTEM.
2	VERIFY EXACT LOCATION OF CCTV SYSTEM AT FIELD WITH ARCHITECT/U.S.P.S. REPRESENTATIVE. AT CAMERA LOCATIONS PROVIDE JUNCTION BOX AS REQUIRED. ALL CAMERAS AS SHOWN ARE TO BE PTZ (PAN-TILT-ZOOM) AND FIXED CAMERAS TYPE UNITS. CAMERA HEIGHTS AND/OR EXACT LOCATIONS MUST BE COORDINATED WITH ARCHITECT/U.S.P.S. REPRESENTATIVE AND THE OIG. REFER TO TYPICAL DETAILS DRAWING E-6.01 AND E-6.02
3	A CABLING DISTANCE MAXIMUM FOR A CAMERA OUTLET DEPEND OF CABLING TYPE USED AND SHALL NOT EXCEED TOTAL LENGTH. (HORIZONTAL, VERTICAL RUNS AND CABLE LOOPS), RECOMMENDED LENGTHS BY MANUFACTURER AND AS PER U.S.P.S. SECTION 282304, CCTV CABLING INSTALLATION SHALL BE PERFORMED UNDER A DIRECT SUPERVISION OF A CERTIFIED INSTALLER
4	PROVIDE EQUIPMENT GROUND AND BONDING PER N.E.C. 250.
5	PROVIDE UL LISTED FIRE STOPPING AT ALL PENETRATIONS THROUGH RATED PARTITIONS/WALLS/ROOFS.
6	CABLING ROUTED EXTERIOR OF THE BUILDING, OR THROUGH INACCESSIBLE CEILINGS SHALL BE CONTAINED IN CONDUIT. CABLING WITHIN EXPOSED WORKROOM AREAS, NOT ROUTED WITHIN CABLE TRAYS, SHALL BE CONTAINED WITHIN CONDUIT RACEWAYS. PROVIDE FLUSH BOXES WITHIN FINISHED AREAS AND FACTORY BOXES IN UNFINISHED AREAS. PROVIDE 1 INCH CONDUIT RISERS WITH 90 DEGREE BEND AND BUSHING FOR ALL WALL MOUNTED DEVICES.
7	ALL CONDUIT INSTALLATIONS SHALL HAVE APPROPRIATE SLEEVES AND BUSHINGS INSTALLED TO ELIMINATE POTENTIAL FOR DAMAGE TO CABLING. ALL COMPONENTS OF THE STRUCTURED CABLING SYSTEM SHALL BE RATED FOR THE RETURN AIR ENVIRONMENT IN WHICH THEY ARE INSTALLED (PLENUM RATED). REFER TO SPECIFICATION SECTION 270500.
8	ALL CCTV EQUIPMENT HARDWARE SHALL BE PROCURED BY THE GC. FROM THE DIRECT VENDOR AS IDENTIFIED IN THE SPECIFICATIONS.
9	THE GENERAL CONTRACTOR SHALL COORDINATE WITH LOW VOLTAGE CONTRACTOR AND ELECTRICAL CONTRACTOR THE WIRING TYPE, INSTALLATION AND TERMINATIONS REQUIRED FOR CCTV SYSTEMS AS IDENTIFIED IN THE DRAWINGS AND SPECIFICATIONS.
10	FINAL CONNECTIONS TO CCTV EQUIPMENT SHALL BE BY THE DIRECT VENDOR AND AS IDENTIFIED IN THE SPECIFICATIONS
11	WHERE CABLES PASS THROUGH PARTITIONS AND WALLS, PROPERLY BUSHED CONDUIT SLEEVES SHALL BE PROVIDED IN THE WALL TO ALLOW THE CABLES TO PASS. CONDUIT SLEEVES IN FIRE RATED PARTITIONS AND WALLS MUST BE PROPERLY FIRESTOPPED USING U.L. LISTED FIRESTOP SYSTEMS (SILICONE FOAM SHALL NOT BE USED).

CAMERA LEGEND - CIS - CRIMINAL INVESTIGATIVE SYSTEM

CAMERA No.	CAMERA TYPE	LOCATION	CAMERA TYPE	CAMERA TERMINATION	MOUNTING	CABLE TYPE	REMARKS	CAMERA No.
C1	PTZ	CARRIER PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C1
C2	PTZ	CARRIER PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C2
C3	PTZ	CARRIER PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C3
C4	PTZ	CARRIER PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C4
C5	PTZ	CARRIER PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C5
C6	PTZ	MAIL PLATFORM	OUTDOOR COVERED	HEAD-END	CLG. MOUNT	CAT-6		C6
1 C7	--	NOT USED	--	--	--	--	OMIT THIS CAMERA	C7
C8	FIXED	TRASH DUMPSTERS	OUTDOOR COVERED	HEAD-END	WALL MOUNT	CAT-6		C8
C9	PTZ	LUNCHROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C9
C10	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C10
C11	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C11
C12	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C12
C13	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C13
C14	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C14
C15	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C15
C16	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C16
C17	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C17
C18	PTZ	WORKROOM	INDOOR	HEAD-END	LAY-IN CEILING	CAT-6		C18
C19	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C19
C20	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C20
C21	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C21
C22	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C22
C23	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C23
C24	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C24
C25	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C25
C26	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C26
C27	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C27
C28	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C28
C29	PTZ	WORKROOM	INDOOR	HEAD-END	CLG. MOUNT	CAT-6		C29
C30	FIXED	FULL SERV COUNTER	INDOOR DOME U.	HEAD-END	LAY-IN CEILING	CAT-6		C30
C31	FIXED	FULL SERV COUNTER	INDOOR DOME U.	HEAD-END	LAY-IN CEILING	CAT-6		C31
C32	FIXED	FULL SERV COUNTER	INDOOR DOME U.	HEAD-END	LAY-IN CEILING	CAT-6		C32
C33	FIXED	FULL SERV COUNTER	INDOOR DOME U.	HEAD-END	LAY-IN CEILING	CAT-6		C33

1 CAMERA LEGEND - ROBBERY COUNTERMEASURES SYSTEM

CAMERA No.	CAMERA TYPE	LOCATION	CAMERA TYPE	CAMERA TERMINATION	MOUNTING	CABLE TYPE	REMARKS	CAMERA No.
RC-1	FIXED	MAIN ENTRY DOORS	INDOOR	HEAD-END	WALL MOUNT	CAT-6		RC-1
RC-2	FIXED	MAIN ENTRY DOORS	INDOOR	HEAD-END	WALL MOUNT	CAT-6		RC-2
RC-3	FIXED	FULL SERVICE LOBBY EXIT	INDOOR	HEAD-END	WALL MOUNT	CAT-6		RC-3
RC-4	FIXED	FULL SERVICE LOBBY ENTRY	INDOOR	HEAD-END	WALL MOUNT	CAT-6		RC-4
RC-5	FIXED	FULL SERVICE LOBBY	INDOOR	HEAD-END	WALL MOUNT	CAT-6		RC-5
RC-6	FIXED	FULL SERVICE LOBBY	INDOOR	HEAD-END	WALL MOUNT	CAT-6		RC-6
RC-7	FIXED	MAIL PL-ENTRANCE	OUTDOOR COVERED	HEAD-END	WALL MOUNT	CAT-6		RC-7
RC-8	FIXED	MAIL PL-TRUCK	OUTDOOR COVERED	HEAD-END	WALL MOUNT	CAT-6		RC-8

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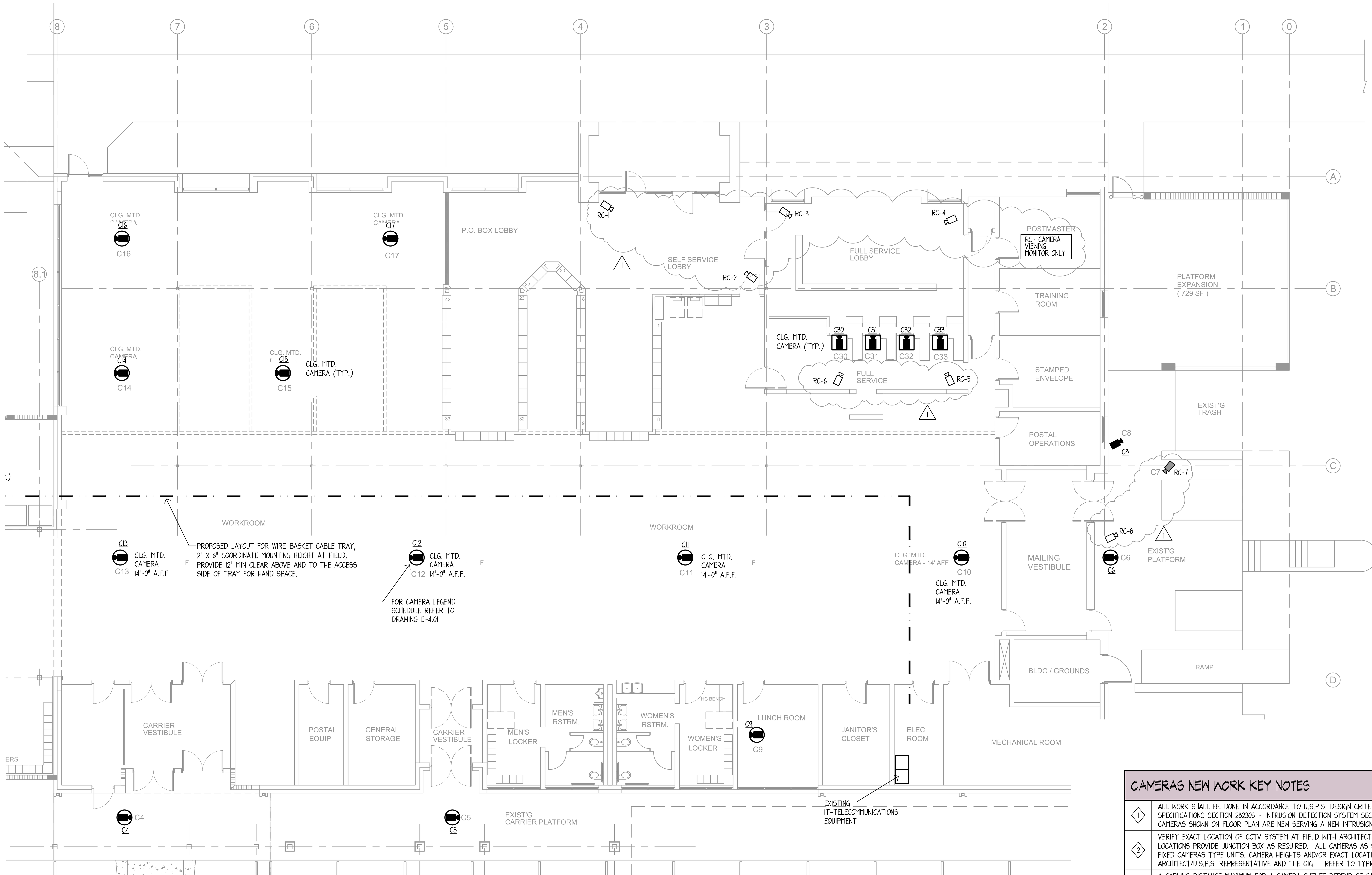

FLOOR PLAN
CAMERA SYSTEM BUILDING EAST

1 SCALE: 1/8"=1'-0"

CAMERAS NEW WORK KEY NOTES

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4	PROVIDE EQUIPMENT GROUND AND BONDING PER N.E.C. 250.
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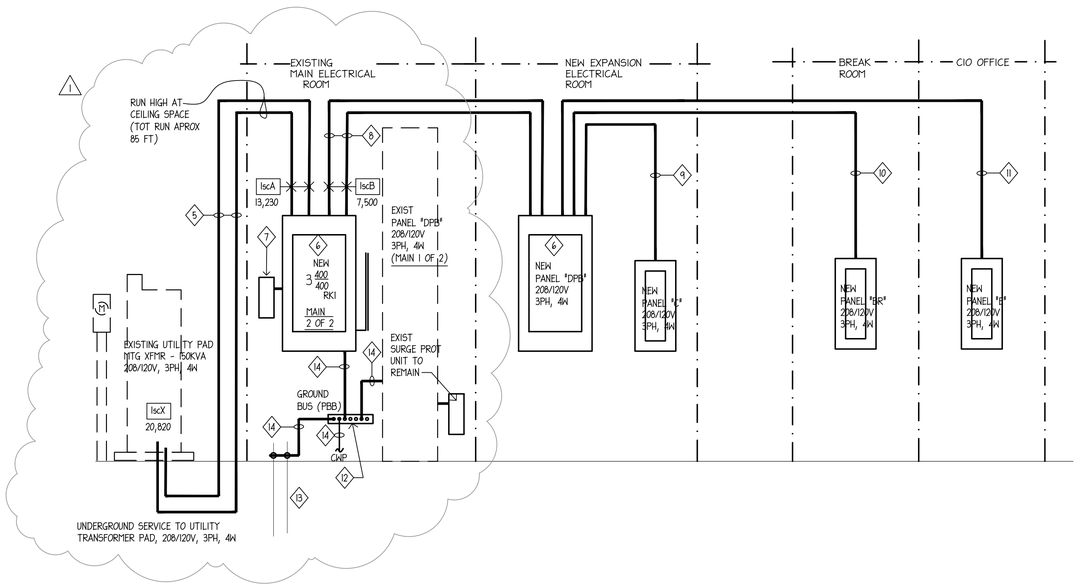


1 PARTIAL ELECTRICAL RISER DIAGRAM

SCALE: N.T.S

ELECTRICAL RISER KEY NOTES

1	UNDERGROUND SERVICE WITH THE UTILITY SHALL BE IN PVC-40 DIRECT BURIAL 24" BELOW GRADE MINIMUM. USE ZINC-COATED RIGID STEEL CONDUIT ELBOWS AND CONDUITS TURNING UP INTO THE BUILDING.
2	FOR APPROVED MANUFACTURERS AND TYPE OF PANELS, SWITCHBOARDS, DISCONNECTS, DEVICES, ETC. REFER TO ELECTRICAL SPECS.
3	ELECTRICAL SERVICE SIZE, TYPE, AVAILABLE INTERRUPTING CAPACITY AND EXACT LOCATIONS SHALL BE COORDINATE WITH UTILITY COMPANY AREA REPRESENTATIVE BEFORE COMMENCING THE JOB.
4	CONTRACTOR SHALL PROVIDE A PLASTIC LABEL PERMANENTLY MARKED TO PANELS, SWITCHBOARDS, DISCONNECTS ETC. WITH EQUIPMENT IDENTIFICATION, VOLTAGE, CIRCUIT SERVING AND/OR EQUIPMENT SERVING AS REQUIRED. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND TIME AND ENVIRONMENT INVOLVED.
5	RUN NEW 2 SETS OF (4#3/0 THHN/THWN-CU IN 2"C)
6	PROVIDE A NEW FUSABLE DISCONNECT SWITCH, 3 POLE RATED 400A 208V HEAVY DUTY TYPE IN NEMA 1 ENCLOSURE, WITH 400A CLASS RK1 CURRENT LIMITING FUSES LOW PEAK DUAL ELEMENT BUSSMANN FUSE LPN-RK400
7	PROVIDE A SERVICE SURGE PROTECTION UNIT, TO NEW "DPB" MAIN (MAIN 2 OF 2) UNIT RATED TO SERVICE AND TO COMPLY WITH SPECIFICATION SECTION 264128. SQUARE-D OR EQUIV APPROVED.
8	RUN NEW 2 SETS OF (4#3/0 THHN/THWN-CU - 1#1/0(G) IN 2"C)
9	RUN NEW 4#1/0 THHN/THWN-CU - 1#6(G) IN 2"C
10	RUN NEW 4#2 THHN/THWN-CU - 1#6(G) IN 2"C.
11	RUN NEW 4#4 THHN/THWN-CU - 1#8(G) IN 1-1/4"C
12	MAIN GROUND BUS BAR (PBB). REFER TO U.S.P.S. SPECS. PROVIDE A SECONDARY BONDING BUSBAR (SBB) WITHIN EACH TR. THE SBB SHALL BE BONDED TO THE PBB AT THE TEF, WITHIN THE CCR, USING A MINIMUM #1/0 AWG/CU BOND CONDUCTOR. REFER TO TYPICAL DETAIL DWG E-6.01
13	PROVIDE (2) 10'-0" COPPER CLAD GROUND RODS SEPARATED 6'-0" MINIMUM (VERIFY EXISTING)
14	SERVICE GROUND 1#3/0 THHN/THWN-CU IN 1"C
15	CONTRACTOR SHALL LABEL ALL MAINS ACCORDINGLY.

SHORT CIRCUIT CALCULATION (1)

(UPSTREAM CALCULATION)

FAULT #1 (IscX) (AT TRANSFORMER SEC. LUGS BY UTILITY)

TRANSFORMER 12470 Y/ 7,200 PRIM - 208/120V SEC, 150 KVA (VOLT LINE-LINE 208V)

IscX = 20,820 AMPS

"F" FACTOR CALCULATION (SERVICE CONDUCTORS)

C = CONSTANT FROM TABLE (BY "2" PARALLEL 3/0, EMT)
L = LENGTH WIRE TO FAULT= 85 FT

$F = \frac{1.73 \times L \times IscX}{C \times E1\text{-}1} = \frac{1.732 \times 85 \times 20{,}820}{(12{,}844 \times 2) \times 208} = 0.5736$

CALCULATE MULTIPLIER

$MULT = \frac{1}{(1+F)} = 0.6354$

COMPUTE AVAILABLE SHORT CKT CURRENT (SYMMETRICAL)) LOCATED AT MAIN SWITCH (NEW MAIN #2) MAIN LUGS.

IscA = IscX x MULT = 20,820 x 0.6354 = 13,230 AMPS

FAULT #2 (IscB)

COMPUTE AVAILABLE SHORT CKT CURRENT SYMETRICAL AT MAIN DISCONNECT SWITCH FROM A CLASS RK1 CURRENT LIMITING FUSES DUAL ELEMENT BUSSMANN FUSE TYPE LPN-RK400 TABLE AT 13,230 AMPS

IscB = 7,500 AMPS

VOLTAGE DROP CALCULATION (1)

SERVICE - 208/120V, 3PH, 4W AT 0.85PF

VOLTAGE DROP SERVICE

L = 85 FT LOAD = 320 AMP WIRE = 2 SETS OF 3/0, EMT

$VD(L\text{-}N) = \text{TABLE VALUE} \times \frac{\text{CKT LENGHT} \times \text{CKT LOAD}}{1000} =$

TABLE VALUE = .094 PARALLEL TOT Z = 0.047

$VD(L\text{-}N) = 0.047 \times \frac{85}{1000} \times 320 = 1.2784$

$\%VD(L\text{-}N) = \frac{1.2784 \times 100}{120} = 1.0653\%$

VD(L-L) = VD(L-N) x 1.732 = 1.0653 x 1.732 = 1.8451

$\%VD(L\text{-}L) = \frac{1.8451 \times 100}{208} = 0.887\%$ LESS THAN 2%

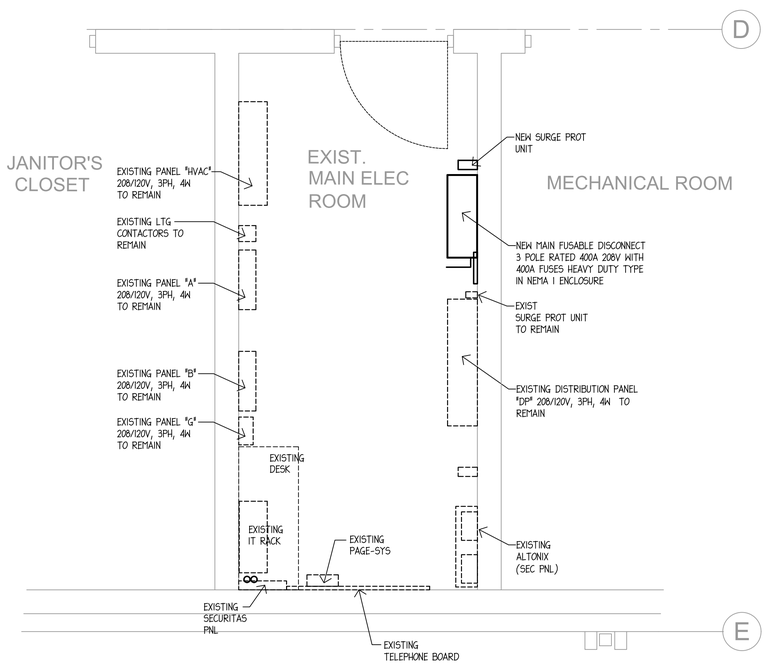
VOLTAGE DROP TO FARTHEST OUTLET

L = 186 FT LOAD = 16 AMP WIRE = #8, EMT

$VD(L\text{-}N) = \text{TABLE VALUE} \times \frac{\text{CKT LENGHT} \times \text{CKT LOAD}}{1000} =$

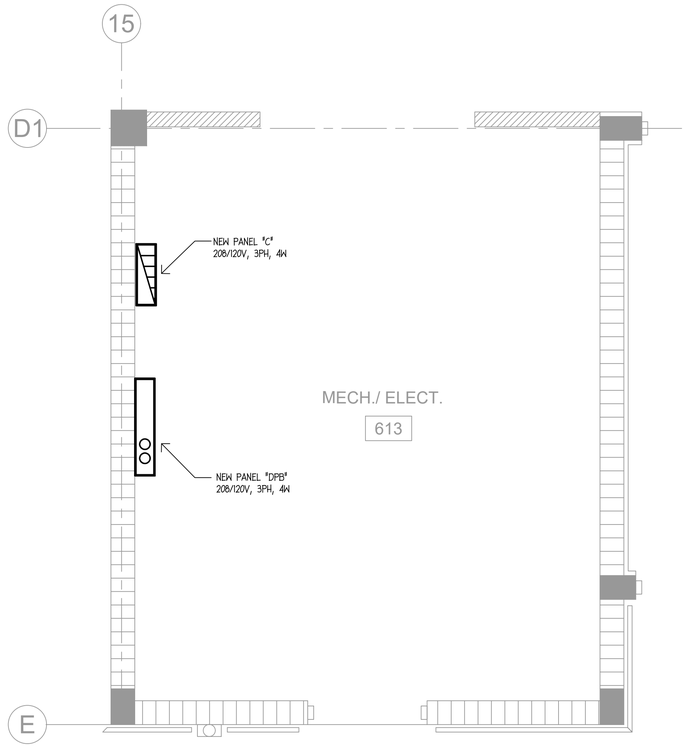
$VD(L\text{-}N) = 0.7 \times \frac{186 \times 16}{1000} = 2.0832$

$\%VD(L\text{-}N) = \frac{2.0832 \times 100}{120} = 1.736\%$ LESS THAN 3%



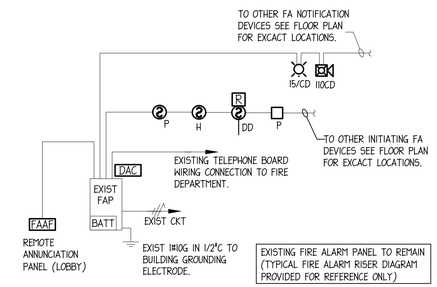
1 2 EXISTING MAIN ELECTRICAL ROOM ENLARGE PLAN

SCALE: 1/2"=1'-0"



1 3 NEW EXPANSION ELECTRICAL ROOM ENLARGE PLAN

SCALE: 1/2"=1'-0"



1 1 FIRE ALARM RISER DIAGRAM

SCALE: NTS

FIRE ALARM RISER KEY NOTES (1)

1	ALL WORK AT THE FIRE ALARM SYSTEM SHALL BE DONE IN ACCORDANCE WITH NFPA 101, OSHA 1910, U.S.P.S. DESIGN CRITERIA HANDBOOK AS-503 AND U.S.P.S. CONSTRUCTION SPECIFICATIONS; FOR APPROVED MANUFACTURERS AND TYPE OF DEVICES, REFER TO ELECTRICAL SECTION 283100 FIRE DETECTION AND ALARM SYSTEM (HORN/STROBES)
2	ALL FIRE ALARM DEVICES, EXTENDERS, EXPANDERS AND NEW SYSTEM PROVISIONS INSTALLED, SHALL BE UL LISTED, UL, AND SAME MANUFACTURER COMPATIBLE WITH SYSTEM AND APPROVED FOR THE PURPOSE WHICH THEY ARE INTENDED.
3	PROVIDE A FIRE ALARM SHUT-DOWN SIGNAL TO WORKROOM PADDLE FANS CONTACTOR, VERIFY AT FIELD EXACT LOCATIONS AND REQUIREMENTS.
3	FOR TYPICAL FIRE ALARM DEVICES MOUNTING HEIGHT REFER TO LEGEND DRAWING E-0.02
4	FINAL CONNECTION BETWEEN COMPONENTS SHALL BE MADE UNDER DIRECT SUPERVISION OF A QUALIFIED TECHNICAL REPRESENTATIVE OF THE EQUIPMENT MANUFACTURER/INSTALLER, WHO SHALL TEST THE SYSTEM AND PROVIDE AN "AS BUILT" SHOP DRAWING WITH CERTIFICATE IN WRITHING AS TO PROPER INSTALLATION PRIOR TO THE FINAL ACCEPTANCE OF THE SYSTEM BY THE OWNER.
5	ALL FIRE ALARM WORK, SHALL BE COORDINATED WITH ARCHITECT/U.S.P.S. REPRESENTATIVE.

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UNITED STATES POSTAL SERVICE

UTILITY COORD. 08-15-2022
1 Revisions:

E5.01

Scale: NOTED Date: 06/16/22
Project: 21-23
USPS File Number: E54835

Response to Supplier Questions

Question: Transformer: Will utility company be changing their pad mount transformer?
Do they have a requirement for routing, conduit depth and type going to new main distribution panel?

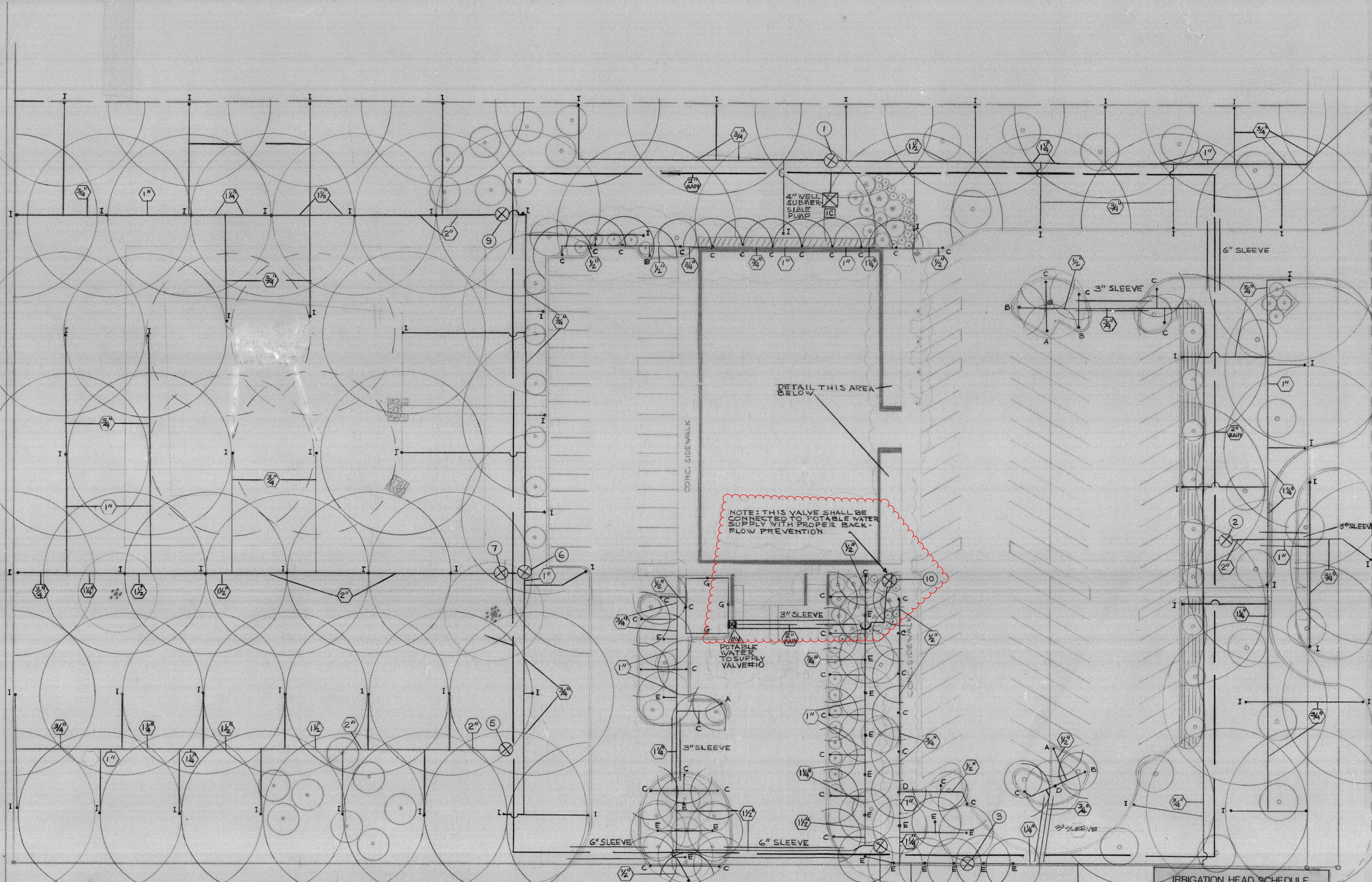
Response: The successful Contractor, once awarded the project, must contact the Utility Company and open up an Account and forward the required Electrical Documents. The Power Company Engineer will dictate the requirements for connection, including depth of conduit burial.
Based on our information from the Power Company, It is not anticipated that the Transformer will need to be changed out. The routing and sizing of the Conduit and Wiring is indicated in Revised Electrical Drawings to be issued in an Amendment by CMT.

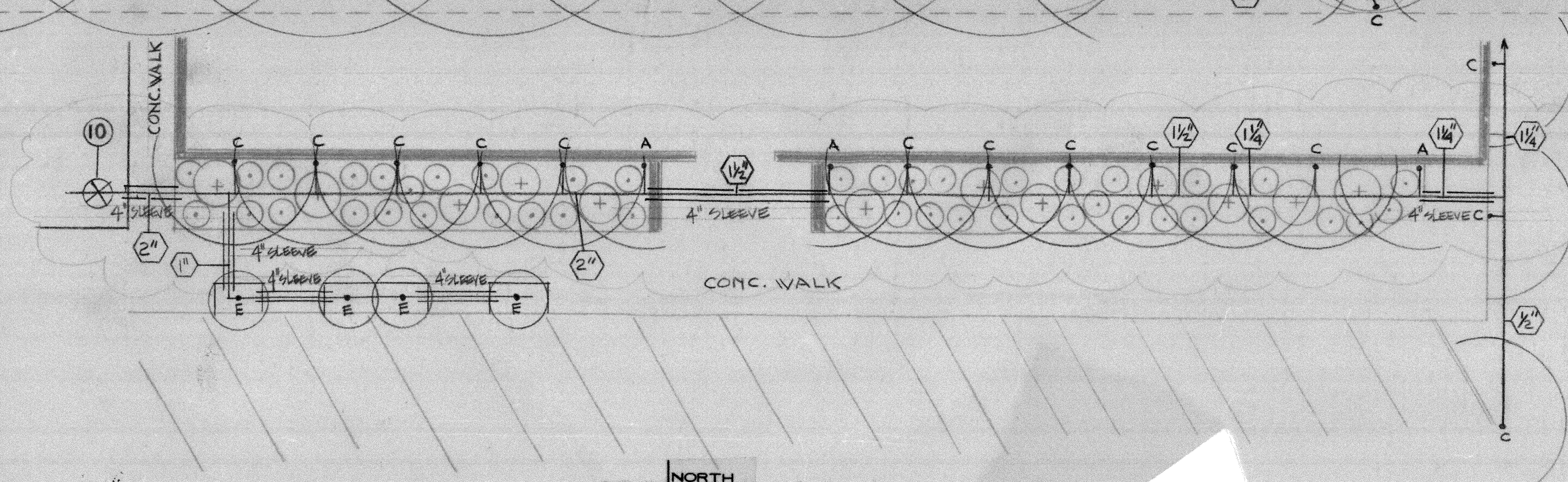
Question: Irrigation Well: Please clarify the intent with the irrigation well and pump location with regards to Deductive Alternate #1

Response: The Irrigation Well is located to the West of the existing facility in a chain link enclosure close to the new CIO office Entry.

The Valve in Question along the East of the existing building and where the Platform Expansion is to take place, should be able to be relocated further east beyond the Work Area based on the Original Building Irrigation Drawings.
Please refer to the L-2 Drawings of the Original Building Record PDF's (L-2 attached)

*** End of Questions ***





PLAN DETAIL @ MAIN ENTRANCE

SCALE 1"=10'

Specifications for Automatic Sprinkler System

Sprinkler heads shall be manufacturers standard unit designed to provide uniform coverage over entire area at available water pressures, as follows: Sprinklers shal be gear driven pop-up type and shall elevate 4" for operation. Water supply connection shall be 3/4" femal pipe thread port located at the bottom. Construction of sprinkler shall be entirely from high quality, non-corrisive material. Hunter PGP-11DJ-DW, or equal.

Pop-up spray shall be fixed pattern with screw-type flow adjustment, stainless steel retraction spring, constructed of non-corrosive materials, suitable for operation in the presence of sand or other foreign materials and shall have a minimum of 4" pop-up height. Rainbird 1800 Series, or equal.

Shrubbery spray shall be fixed patrtern with screw-type flow adjustment, made of high quality non-corroding materials, supply connection shall be 1/2" female pipe thread. Rainbird PA-83 with 1800 nozzles, or equal.

Valve boxes shall be not les than 9" diameter top opening and a 10" minimum depth. Castle Products, Inc. 911 Series or equal.

REFER TO SPECIFICATION SECTION 223

IRRIGATION HEAD SCHEDULE

MARK	RAINBIRD #	GPM	PSI	PATTERN
A	1804-15Q	.83	25	90°
B	1804-15T	1.10	25	120°
C	1804-15H	1.65	25	180°
D	1804-15TQ	2.48	25	270°
E	1804-15F	3.30	25	360°
F	1804-EST	.56	25	4'X28'
G	1804-CST	1.11	25	4'X28'
H	1804-SST	1.11	25	4'X28'
HP	1812-NOZ.	USE IN LANDSCAPED AREAS ONLY		
I	HUNTER PGP-ADJ	3.4 TO 6.8	50	40 TO 360
⊗	ELECTRIC VALVE 24 VAC/NC HARDIE 700 - 1 1/2"			
DASH LINE	MAINLINE ASTM-2241	MAX 60	PR 160	SDR 26
⊠	4" WELL AND SUBMERSIBLE PUMP WITH PUMP PANEL			
IC	IRRIGATION CONTROLLER RICHDEL R-412			

IRRIGATION ELECTRIC VALVE CONTROL WIRING AND CONDUIT IS NOT SHOWN, BUT SHOULD BE INSTALLED CLOSELY WITH MAINLINE PIPING WHERE EVER POSSIBLE

DRAWING NOTES

1. Minimum size of lateral pipe shall be ½' diameter.
2. All sleeves and main line to be Sch. 40 PVC pipe. Lateral pipe to be Class 1120/160 PSI test pipe.
3. Contractor to supply and install all check valves backflow preventers, permits, etc. as required by applicable codes even if those items are not shown on drawings.
4. Main line location is shown schematically. Wherever possible lateral lines are to buried in common trench with main line.
5. All spray heads or nozzles in planting beds to be placed on risers (Sch. 80) of appropriate height to planting.
6. All risers are to be located 15" from buildings.
7. All heads in open grass areas to be mounted on poly pipe swing joints.
8. All materials to be new. All pipe to be cut squarely and burrs removed. All PVC joints to be made with the use of cleaner, primer and clean solvent weld.
9. All pipe and sleeves under pavement shall be 24" below finish grade. All other pipe shall be 15" below finish grade. All sleeves under paving to be installed prior to paving installations.
10. Backfill material shall be clean and free from construction debris and large rock or rock with sharp edges.
11. All work is to be done in a good, acceptable manner and in accordance with the manufacturer's recommendations.
12. Head locations are approximate. Contractor to maintain 100% coverage with approximately 50% overlap when minor head location changes are necessary due to field conditions.
13. If adjustable pattern nozzles are necessary to provide for proper coverage to avoid overthrow onto pavement areas they shall be provided in this contract.
14. Contractor may adjust trenching in the field for existing conditions. In some cases irrigation pipe or valves are diagramatically shown in pavement areas or outside of property lines. This is for purposes of clarity only. In such cases the pipe shall be placed in the immediately adjacent landscape area.
15. Contractor shall be responsible for the location and existence of all underground utilities. Contractor to verify utilities in the field. Contractor is responsible for the protection, maintenance and any damage to existing utilities or structures.
16. All electric connections to Div. 16 Power Source shown on sheet E-1, all interconnection of electric valves, time-clock and pump starter are a part of this irrigation contractor's work.
17. All low voltage wiring shall be #18 AWG with #14 AWG common, installed in conduit.
18. Contractor shall mark stations on the controller panel to correspond with the zone numbers on this plan and set operating sequence to correspond to the numbering.
19. All valves, vacuum breakers and associated valve assemblies shall be located in the landscape areas so that they may be adequately screened from public view and protected from vandalism.
20. The model or type of sprinkler head to be used in the specific sprinkler head location may be subject to change when the final landscape installation is complete. This is due to the fact that the final alignment of the planting beds or grass areas may be changed from that shown on the landscape plan at the time of installation. The landscape plan is the basis on which the sprinkler head model or type is determined. Head spacing will not be increased without prior approval of the landscape architect.
21. The irrigation contractor shall carefully schedule his work with the landscape installation and other site developments.
22. All portions and components of the irrigation system shall be installed in strict accordance with the manufacturer's specifications.
23. All components of the irrigation system shall be designed or located in such a manner so as to prevent damage to the system from autos and pedestestrian traffic and to minimize vandalism.
24. AS BUILT DRAWINGS: after completion of piping installation, the irrigation contractor shall prepare an "as-built" tracing showing all sprinkler heads, valves, drains & pipelines to scale with dimensions where required. As-built drawings, operating & maintance instructions and parts lists coverning all provided, One (1) copy each to the Owner upon acceptance of the system by USPS.
25. WARRANTY: it shall be the irrigation contractor's responsibility to insure and warranty complete coverage as specified herein of the areas to be irrigated. During warranty period the irrigation contractor shall make any adjustments as necessary to maintain proper operation & coverage. He shall also warranty satisfactory operation of the entire system & workmanship and restoration of the area. Entire system shall be warranted complete and operational for period of one year from date of acceptance by USPS, & he hereby agrees to repair or replace any scch defects occurring within that year at his expense that are not maintenance related.

IRRIGATION EXECUTION AND HEAD SPACING

1. Riser mounted spray heads shall be utilized as required:
   a. In planting beds adjacent to the building or structures only.
   b. To be installed 6" above plant height.
   c. Not installed in parking islands, along walks, curbs, entrance roads or where highly visible.
   d. Risers to be of Schedule 40 PVC.
2. Pop Up sprays (Rain Bird 1800) to be utilized as required:
   a. In planting beds where spray head is in low planting or ground cover (mature plant height is 1" - 18").
   b. In parking islands containing ground cover plantings.
   c. Where it is advantageous to conceal sprinkler heads due to high pedestrian traffic, visibility, vandelism & maintenance, install spray high pop on riser to top of spray body is elevated to top of the plant material.
3. Pop up rotor heads shall be installed in areas where long radius coverage intended, will not be blocked by plant material or other structures (ex. signs, fire hydrants, walls, etc.).
4. Changes in head placement, spray or rotor substitution should always be done taking into consideration:
   a. What is best for growth & maintance of sod & plant material.
   b. Maintaining a constant & even water distribution & precipitation rate. (Never put rotors and sprays on same zone).
5. Automatic control timer location to be verified with Arch./Owner.
6. Pop up sprinkler heads shall be installed.
   a. 3" to 6' from edge of curb or sidewalk.
   b. 12" to 18" from edge of pavement (where no curb exist)
   c. Flush with finish grade.
7. Field alterations made in the irrigation contract drawing must be in the best interest of the plant naterials, sod & landscape irrigation system. Changes made by the irrigation system. Changes made by the irrigation contractor which are deemed by the Architect/Owner, not to be in conformity with this crieteria will be removed and replaced at the irrigation contractor's expense. If a question should arise as to the best way to complete a field alteration, contact the Architect/Owner for approval.

RECORD DRAWING

- [x] NOT CHANGED FROM CONSTRUCTION ISSUE
- [ ] INDICATED REVISIONS SHOW CONSTRUCTION CHANGES REPORTED TO ARCHITECT BY CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ACCURACY OF THESE RECORDED CHANGES.

BY ____________ DATE ________

REVISION 2 ISSUED	
REVISION 1 ISSUED	
ISSUED FOR CONSTRUCTION	4/1/88
ISSUED FOR APPROVAL	12/18/87
ISSUED FOR REVIEW	
APPROVED BY	EGL
CHECKED BY	C.P.
DRAWN BY	P.P.

IRRIGATION PLAN

NEW MAIN POST OFFICE

DAVENPORT FLORIDA

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