VOLUSIA COUNTY SCHOOLS
"LEADING WITH GRACE AND RESPECT"

SUGAR MILL ELEMENTARY SCHOOL
REPLACE BLDG. 11 CANOPY

THE SCHOOL BOARD OF VOLUSIA
COUNTY FLORIDA
200 North Clara Avenue
DeLand, Florida 32720

VCS Project NO. 2648294

1101 CHARLES ST. PORT ORANGE, FL 32129

SCHOOL BOARD MEMBERS

RUBEN COLON	BOARD CHAIR
KRISTA GOODRICH	BOARD VICE CHAIR
DONNA BROSEMER	MEMBER
JAMIE HAYNES	MEMBER
JESSICA THOMPSON	MEMBER
CARMEN J BALGOBIN	SUPERINTENDENT

DESCRIPTION OF WORK

SCOPE OF WORK: THIS PROJECT INVOLVES REPLACEMENT OF APPROXIMATELY 120 LINEAR FEET OF EXISTING CANOPY AT SUGAR MILL ELEMENTARY SCHOOL. THE WORK INCLUDES COMPLETE DEMOLITION OF THE EXISTING CANOPY SECTION, INSTALLATION OF A NEW CANOPY STRUCTURE DESIGNED FOR 155MPH WIND ZONE WITH A MILL ALUMINUM FINISH, NEW SIDEWALKS UNDER THE CANOPY DUE TO DEMOLITION AND NEW FOUNDATION REQUIREMENTS, SURFACE-MOUNTED LED FIXTURES ON THE UNDERSIDE OF THE METAL DECKING, AND PROPER FLASHING AT CONNECTIONS TO THE EXISTING BUILDING(S).

Architect's Statement of Compliance:

To the best of my knowledge, these drawings and the project manual are complete and comply with "the Florida Building Code" and other applicable codes and regulations, as determined by the local authority in accordance with FBC Chapters 105 and 633 Florida Statutes.

LOCATION MAP



NOT TO SCALE NORTH

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CONSTRUCTION DOCUMENTS AUGUST 28, 2026

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Consultant:

REVISIONS

NO.	DATE	DESCRIPTION

SUGAR MILL ELEMENTARY SCHOOL
REPLACE BLDG. 11 CANOPY
VCS Project No.: 2648294
1101 CHARLES ST, PORT ORANGE, FL 32129

ARCHENGR OF RECORD
Architect
JOHN V QUATTRONE

DESIGNED BY	DRAWN BY
	CR
ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

SHEET TITLE:
COVER

SHEET #
G100

GENERAL NOTES

1. ALL CONSTRUCTION, DRAINAGE STRUCTURES AND OTHER SITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITIONS OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION OR THE CITY'S LAND DEVELOPMENT CODE REQUIREMENTS, STANDARD CONSTRUCTION DETAILS & STANDARD SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
2. SHOP DRAWINGS AND CERTIFICATIONS FOR ALL MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL REVIEW AND SIGN SHOP DRAWINGS. THE CONTRACTOR SHALL SUBMIT REVIEWED SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.
3. CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL REQUIRED PERMITS. THE CONTRACTOR SHALL MAINTAIN COPIES OF ALL RELEVANT PERMITS AND CONSTRUCTION DOCUMENTS AVAILABLE ON THE JOB SITE AT ALL TIMES.
4. CONTRACTOR TO MAINTAIN THE SITE IN A SAFE AND SECURE MANNER TO PROTECT PUBLIC SAFETY AND THE CONDITIONS OF THE IMPROVEMENTS.
5. THE CONTRACTOR SHALL MAINTAIN, AT THE JOB SITE, A RECORD COPY OF ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS ON WHICH ALL FIELD CHANGES ARE TO BE SHOWN. THESE CHANGES ARE TO BE INCORPORATED IN THE "AS-BUILT" SURVEY FURNISHED TO THE ENGINEER.
6. SHOULD CONDITIONS VARY FROM THOSE SHOWN ON THESE PLANS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF RECORD PRIOR TO CONTINUING CONSTRUCTION.
7. ANY FIELD MODIFICATIONS OR DEVIATIONS TO THESE CONSTRUCTION PLANS REQUIRES APPROVAL BY BOTH THE ENGINEER OF RECORD AND VOLUSIA COUNTY SCHOOLS PRIOR TO PERFORMING THE WORK.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AN "AS-BUILT" SURVEY OF THE COMPLETED CONSTRUCTION. THE "AS-BUILT" SURVEY SHALL BE PREPARED IN ACCORDANCE WITH APPROPRIATE GOVERNMENTAL REGULATIONS AND ZCA REQUIREMENTS. THE "AS-BUILT" SURVEY SHALL BE PREPARED ON ZCA'S DESIGN/PERMITTED PLANS. ELECTRONIC AND PAPER COPIES OF THE AS-BUILT SURVEY SHALL BE PROVIDED TO THE ENGINEER OF RECORD. THE "AS-BUILT" SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL LAND SURVEYOR.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING VEHICULAR AND PEDESTRIAN TRAFFIC SAFELY THROUGH THE WORK ZONE AT ALL TIMES, IF APPLICABLE. ANY SIDEWALK, LANE OR ROAD CLOSURE REQUIRES REVIEW AND APPROVAL IN ADVANCE AND A SEVEN (7) DAY MINIMUM NOTICE TO THE CITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REQUIRED COORDINATION.
10. MAINTENANCE OF TRAFFIC WILL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAY CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS AND THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS, LATEST EDITIONS.
11. CONTRACTOR TO NOTIFY THE REGULATORY AGENCIES FORTY EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL SEND COPIES OF ALL TESTING REPORTS TO THE REGULATORY AGENCIES AND THE ENGINEER OF RECORD.
12. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED. THE CONTRACTOR SHALL EMPLOY A SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, TO REPLACE/RESTORE ANY PROPERTY OR LAND MARKERS DISTURBED BY CONSTRUCTION ACTIVITIES.
13. NO LAND SHALL BE CLEARED, EXCAVATED OR FILLED AND NO STRUCTURES SHALL BE ERECTED, REPAIRED OR DEMOLISHED WITHOUT PROPER PERMIT(S).
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS AS WELL AS THE REQUIREMENTS OF ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND E.P.A. (NPDES). CONTRACTOR SHALL ESTABLISH BEST MANAGEMENT PRACTICES AND EROSION CONTROL METHODS PRIOR TO COMMENCING ANY SITE CLEARING OR DEMOLITION AND SHALL MAINTAIN THOSE BARRIERS UNTIL FINAL ACCEPTANCE OF THE PROJECT.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROJECT'S NPDES PERMITTING, INSPECTION AND REPORTING, IF APPLICABLE.
16. THE EROSION, SEDIMENT AND TURBIDITY CONTROL MEASURES DELINEATED HEREON ARE THE MINIMUM REQUIRED. ADDITIONAL CONTROLS MAY BE NEEDED, DEPENDING UPON THE ACTUAL SITE CONDITIONS, JURISDICTIONAL AGENCY PERMIT REQUIREMENTS AND CONSTRUCTION OPERATIONS. STAKED SILT FENCE SHALL BE UTILIZED TO CONTROL EROSION AND RELEASE OF SUSPENDED SOLIDS. SEDIMENT TRACKING CONTROL DEVICES SHALL BE USED TO PREVENT THE OFFSITE TRANSPORT OF SEDIMENT BY MOTORIZED VEHICLES. IF CONTROL MEASURES DO NOT PROVE SATISFACTORY, WORK SHALL CEASE UNTIL NEW MEASURES ARE ADOPTED WITH SATISFACTORY RESULTS.
17. ALL EROSION AND SEDIMENT TRACKING CONTROL DEVICES SHALL BE INSPECTED DAILY AND IMMEDIATELY FOLLOWING A RAINFALL EVENT. REFER TO PROJECT'S STORMWATER POLLUTION PREVENT PLAN (SWPPP). ANY DEFICIENCIES FOUND IN THE EROSION CONTROL MEASURES SHALL BE REPAIRED IMMEDIATELY. THE CONTRACTOR SHALL KEEP A LOG BOOK DOCUMENTING THESE DAILY INSPECTIONS, DEFICIENCIES AND REMEDIAL ACTIONS.
18. ALL UNSUITABLE SOILS AND UNSUITABLE MATERIALS (SUCH AS CLAY, ORGANICS, ROCK, CEMENTED COQUINA, DEBRIS, ETC.) SHALL BE REMOVED, DISPOSED OF IN A LEGAL MANNER AND REPLACED WITH DRY COMPACTED GRANULAR MATERIAL SATISFACTORY TO THE CITY. THE COST OF ALL WORK AND MATERIALS IS TO BE INCLUDED IN THE UNIT PRICE OF THE ASSOCIATED CONSTRUCTION ITEMS UNLESS OTHERWISE SHOWN IN THE PLANS.
19. IN THE EVENT THAT WATER IS ENCOUNTERED DURING CONSTRUCTION, DEWATERING SHALL BE PERFORMED AS NEEDED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, PERMITTING, INSTALLATION, OPERATION AND SUBSEQUENT REMOVAL OF DEWATERING SYSTEMS AND THEIR SAFETY AND CONFORMITY WITH APPLICABLE CODES AND REGULATIONS.
20. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE ELECTRIC, TELEPHONE, GAS, CABLE TELEVISION, COMMUNICATIONS, ETC. COMPANIES TO DETERMINE THE TYPE AND LOCATION OF ALL UNDERGROUND FACILITIES IN THE AREA OF CONSTRUCTION.
21. ALL UNDERGROUND UTILITIES HAVE BEEN LOCATED HORIZONTALLY AND VERTICALLY BASED ON THE BEST INFORMATION AVAILABLE AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL ELEVATIONS OF EXISTING UTILITIES (PUBLIC AND PRIVATE) SHOWN OR NOT SHOWN PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, DISRUPTION OF SERVICE OR CLARIFICATION OF ACTIVITY REGARDING SAID UTILITY. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN WORKING NEAR OR CROSSING A UTILITY, WHETHER SHOWN ON THESE PLANS OR FIELD LOCATED. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE AND NOTIFY THE UTILITY COMPANIES FOR UTILITIES WHICH NEED TO BE RELOCATED FOR THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY FOR ANY REPAIR, RELOCATION OR TEMPORARY MEASURES NEEDED FOR EXISTING OR PROPOSED UTILITIES.
22. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE AND AVOID ALL UTILITIES, OTHER STRUCTURES AND OBSTRUCTIONS BOTH ABOVE AND BELOW GROUND. ALL DAMAGE RESULTING FROM THE CONTRACTOR'S FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
23. THE CONTRACTOR SHALL NOTIFY ALL UTILITY PROVIDERS AT LEAST TWO (2) BUSINESS DAYS PRIOR TO ANY CONSTRUCTION.
24. THE CONTRACTOR SHALL MAINTAIN UNINTERRUPTED SERVICE AT ALL SERVICE CONNECTIONS. THE MANNER IN WHICH THIS IS ACCOMPLISHED SHALL BE LEFT TO THE DISCRETION OF THE CONTRACTOR, SUBJECT TO THE REQUIREMENTS OF THE CONTRACT SPECIFICATIONS.
25. ALL EXISTING DRAINAGE STRUCTURES AND UTILITIES WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED IN PLANS.
26. THE LENGTH OF ALL DRAINAGE PIPES AND LOCATION OF ALL DRAINAGE STRUCTURES ARE APPROXIMATE. THE LOCATION OF THE DRAINAGE STRUCTURE SHALL DETERMINE THE LENGTH OF PIPE.
27. THE TOP OF CASTING ELEVATIONS (TC) OF ALL STRUCTURES ARE SHOWN. HOWEVER, THE CONTRACTOR SHALL INSTALL ALL FRAMES SO AS TO PROVIDE A SMOOTH SURFACE FOR VEHICULAR AND/OR PEDESTRIAN TRAFFIC.
28. CONTRACTOR SHALL CONFIRM PROPOSED TOP OF CASTING (TC) ELEVATIONS WILL ALLOW POSITIVE DRAINAGE TO PROPOSED INLETS. IF POSITIVE DRAINAGE DOES NOT EXIST, CONTRACTOR TO COORDINATE WITH ENGINEER OF RECORD FOR SOLUTION AND ADJUST PROPOSED INLETS AS NECESSARY AT NO COST.
29. CONTRACTOR SHALL CONFIRM ELEVATION OF EXISTING GRADE PRIOR TO PLACING DRAINAGE OUTFALL STRUCTURES. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IF EXISTING GRADE DOES NOT MATCH PROPOSED OUTFALL INVERT. CONTRACTOR SHALL ADJUST OUTFALL STRUCTURE INVERT AND/OR STRUCTURE LOCATION AS DIRECTED BY ENGINEER OF RECORD AT NO COST.
30. ANY DRAINAGE PROBLEMS CREATED BY CONSTRUCTION, OR EXISTING BEFORE CONSTRUCTION AND NOT ALLEVIATED, SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD AT THE TIME OF DISCOVERY.
31. ALL STORMWATER PIPES AND INLETS SHALL BE CLEANED OF DEBRIS AND ERODED MATERIALS AT LAST STAGES OF AND PRIOR TO COMPLETION OF CONSTRUCTION.

GENERAL NOTES

32. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES MAY EXTEND INTO THE STABILIZED PORTION OF THE ROADBED. EXTREME CAUTION WILL BE NECESSARY DURING COMPACTION AND STABILIZATION OPERATIONS AT THESE LOCATIONS TO AVOID DAMAGE AND ACHIEVE THE REQUIRED COMPACTION.
33. DURING CONSTRUCTION, AN ALL-WEATHER ACCESSIBLE ROADWAY SHALL BE MAINTAINED AT ALL TIMES FOR FIRE ACCESS.
34. ALL REQUIRED FIRE LINES & HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL & STATE REQUIREMENTS AND OPERATIONAL PRIOR TO THE START OF VERTICAL CONSTRUCTION.
35. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH WITH THE SAME TYPE OF MATERIAL, UNLESS OTHERWISE SHOWN IN THE PLANS.
36. ALL RAMPS, SIDEWALKS AND ACCESSIBLE ROUTES ARE TO BE IN COMPLIANCE WITH CURRENT A.D.A. REQUIREMENTS.
37. SIGNS THAT ARE REMOVED AND ARE TO BE RELOCATED SHALL BE STOCK PILED BY THE CONTRACTOR. ANY EXISTING SIGNS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT HIS COST.
38. ROADWAY AND PARKING SIGNAGE AND MARKINGS SHALL BE IN CONFORMANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
39. UNLESS OTHERWISE NOTED, PROPOSED GRADES SHOWN ARE FINISHED GRADES.
40. OPERATION AND MAINTENANCE OF THE STORMWATER SYSTEM WILL BE PROVIDED BY THE OWNER OF PROPERTY. MAINTENANCE IS TO INCLUDE BI-WEEKLY MOWING OF SIDE SLOPES FOR VEGETATION CONTROL AND MONTHLY INSPECTION/CLEANING OF CULVERTS & STORM SYSTEMS.
41. ALL DISTURBED AREAS SHALL BE SODDED, UNLESS OTHERWISE SHOWN, AND SHALL HAVE SOD/ VEGETATED COVER ESTABLISHED PRIOR TO THE INSPECTION FOR THE CERTIFICATE OF OCCUPANCY.
42. INSTALLATION OF THE REQUIRED STREET SIGNS, TRAFFIC SIGNS, PAVEMENT STRIPING, STREET LIGHTS AND SIDEWALKS ALONG WITH THE PAINTING OF THE FIRE HYDRANTS MUST BE COMPLETED PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF COMPLETION.
43. CONTRACTOR IS RESPONSIBLE FOR INSPECTING AND PRE-TESTING PRIOR TO SCHEDULING A TEST OR WALK-THROUGH WITH THE UTILITY REPRESENTATIVES, MUNICIPAL REPRESENTATIVES AND ENGINEER OF RECORD. ANY COST ASSOCIATED WITH RETESTING SHALL BE PAID FOR BY THE CONTRACTOR.
44. THE ENGINEER OF RECORD AND LOCAL UTILITY SHALL BE GIVEN SEVENTY-TWO (72) HOURS NOTICE OF ALL REQUESTED MEETINGS AND/OR TESTING MEASURES.
45. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE REGULATORY REPRESENTATIVES TO DETERMINE THE INSPECTIONS NEED FOR THE PROJECT. CONTRACTOR SHALL PROVIDE PROPER NOTIFICATION TO INSPECTING AUTHORITIES BEFORE AND DURING CONSTRUCTION.
46. ZEV COHEN AND ASSOCIATES, INC (ZCA) LIABILITY SHALL BE LIMITED TO THE COMPANY'S DESIGN OF SPECIFIC IMPROVEMENTS AS DEPICTED ON THE SITE INFRASTRUCTURE CONSTRUCTION DOCUMENTS.

ALL MATERIALS AND INSTALLATION METHODS USED FOR LAND DEVELOPMENT CODE REQUIRED IMPROVEMENTS FOR SUBDIVISIONS AND SITE PLANS SHALL BE IN CONFORMANCE WITH THE CITY, FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) AND THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION).

1. ALL STORM SEWERS AND CULVERTS LOCATED IN ROADWAY RIGHTS-OF-WAY AND ROADWAY EASEMENTS SHALL BE:
   - A. CLASS III (MIN.) REINFORCED CONCRETE PIPE (RCP), IN ACCORDANCE WITH ASTM C76, C655, C506 AND C507. ALL RCP JOINTS SHALL BE ENTIRELY WRAPPED WITH FILTER FABRIC WITH A MINIMUM WIDTH OF 24" AND A MINIMUM OF 24" OVERLAP SECURED WITH PLASTIC OR STAINLESS BANDS. GASKETS ALONE ARE NOT PERMITTED AS AN EQUIVALENT SUBSTITUTE FOR MEETING THIS REQUIREMENT. ALL JOINTS SHALL BE RUBBER GASKETED FOR BOTH ROUND AND ELLIPTICAL PIPE.
   - B. CORRUGATED, SMOOTH INTERIOR WALL, HIGH DENSITY POLYETHYLENE (HDPE), UP TO 60" DIAMETER, IN ACCORDANCE WITH ASTM F2306. ALL JOINTS WILL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
   - C. CORRUGATED, SMOOTH INTERIOR WALL, POLYPROPYLENE (PP), UP TO 60" DIAMETER, IN ACCORDANCE WITH ASTM F2881 ALL JOINTS WILL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
   - D. CORRUGATED, SMOOTH INTERIOR WALL, PVC, UP TO 36" DIAMETER, IN ACCORDANCE WITH ASTM F949 ALL JOINTS WILL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. STORM SEWERS AND CULVERTS LOCATED OUTSIDE OF ROADWAY RIGHTS-OF-WAY AND ROADWAY EASEMENTS MAY BE MADE OF ALTERNATE MATERIALS, INCLUDING SDR26 TO SDR35 PVC IN ACCORDANCE WITH ASTM D-3034.
3. DEPTH OF COVER MEASURED TO THE TOP OF PIPE (NOT INCLUDING THE BELL JOINT) SHALL BE A MINIMUM OF 12". DEVIATION FROM THIS REQUIREMENT MAY BE ALLOWED BY INCREASING THE PIPE'S STRUCTURAL CAPACITY. THIS DEVIATION MUST BE SPECIFIED ON THE PLANS APPROVED FOR CONSTRUCTION AND SUBSEQUENTLY REFLECTED ON THE SHOP DRAWINGS AND AS-BUILT PLANS.
4. ALL STORM DRAINAGE PIPES LOCATED IN ROADWAY RIGHTS-OF-WAY AND ROADWAY EASEMENTS SHALL BE A MINIMUM OF 15" DIAMETER OR EQUIVALENT AND BE DESIGNED FOR A MINIMUM OF A 25 YEAR - 24 HOUR STORM. STORM DRAINAGE PIPES SMALLER THAN 15" ARE PERMITTED ON PRIVATE SITE PLANS PROVIDED MAINTENANCE IS PERFORMED BY THE OWNER.
5. STORM INLETS, MANHOLES, AND CATCH BASINS SHALL BE EITHER POURED IN PLACE OR PRECAST REINFORCED CONCRETE. STRUCTURES SHALL BE REQUIRED AT EACH CHANGE OF PIPE SIZE OR CHANGE IN PIPE DIRECTION. ALL STRUCTURES SHALL BE IN COMPLIANCE WITH FDOT DRAINAGE INDEX 200. CAST IN PLACE STRUCTURES SHALL HAVE 8" THICK WALLS AND PRECAST STRUCTURES SHALL HAVE 6" THICK WALLS. THESE DIMENSIONS MUST BE REFLECTED ON BOTH SHOP AND AS-BUILT DRAWINGS.
6. CULVERTS SHALL BE SLOPED TO MAINTAIN A MINIMUM SELF-CLEANING VELOCITY OF 3' PER SECOND USING MANNING'S "n" CORRESPONDING TO THE PIPE MATERIAL.
7. FOR SITE PLANS, STORM INLET SPACING SHALL BE DESIGNED TO ACCEPT 100% OF THE RUNOFF FROM A RAINFALL INTENSITY OF 4" PER HOUR WITHOUT RESULTING IN PONDING OF WATER AROUND THE INLET.
8. FOR SUBDIVISION PLANS, STORM INLET SPACING, WITH PIPING 15" IN DIAMETER OR LARGER, SHALL BE DESIGNED WITH THE MAXIMUM DISTANCE OF 300' BETWEEN INLETS AND/OR CLEAN-OUT JUNCTION BOXES. FOR ROADWAY SECTIONS HAVING CURB AND GUTTER AND DESIGN SPEEDS OF 45 MPH AND LESS, SPREAD RESULTING FROM A RAINFALL INTENSITY OF 4" PER HOUR SHALL NOT EXCEED ONE-HALF OF THE TRAVEL LANE ADJACENT TO THE GUTTER.
9. RETENTION AREA WATER DEPTHS SHALL BE 4' MINIMUM TO 12' MAXIMUM, MEASURED FROM THE NORMAL WATER LEVEL.

CITY OF PORT ORANGE 1867 FLORIDA

STANDARD CONSTRUCTION DETAIL
STORM DRAINAGE DESIGN
AND CONSTRUCTION NOTES

REV. 12/18

FILE NAME
ST1.DOC

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ST-1

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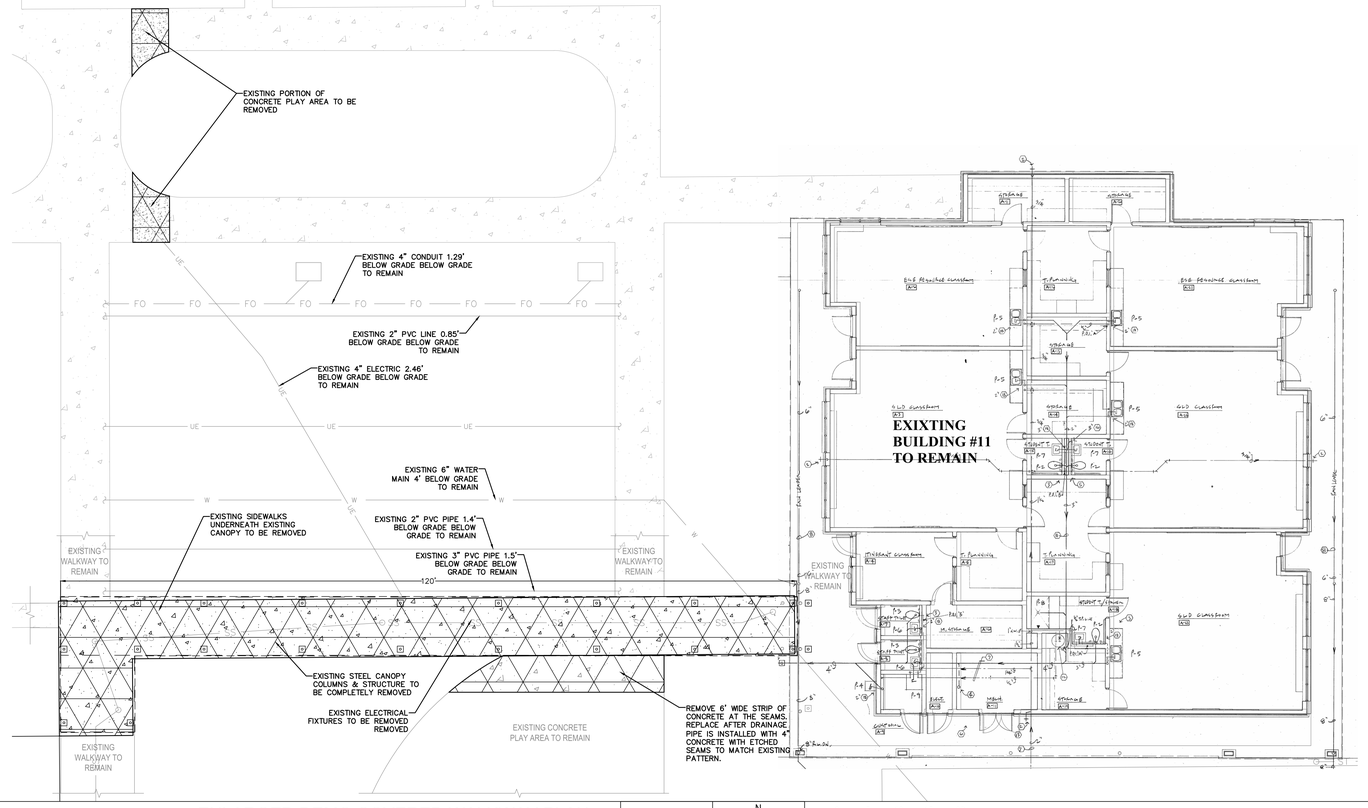
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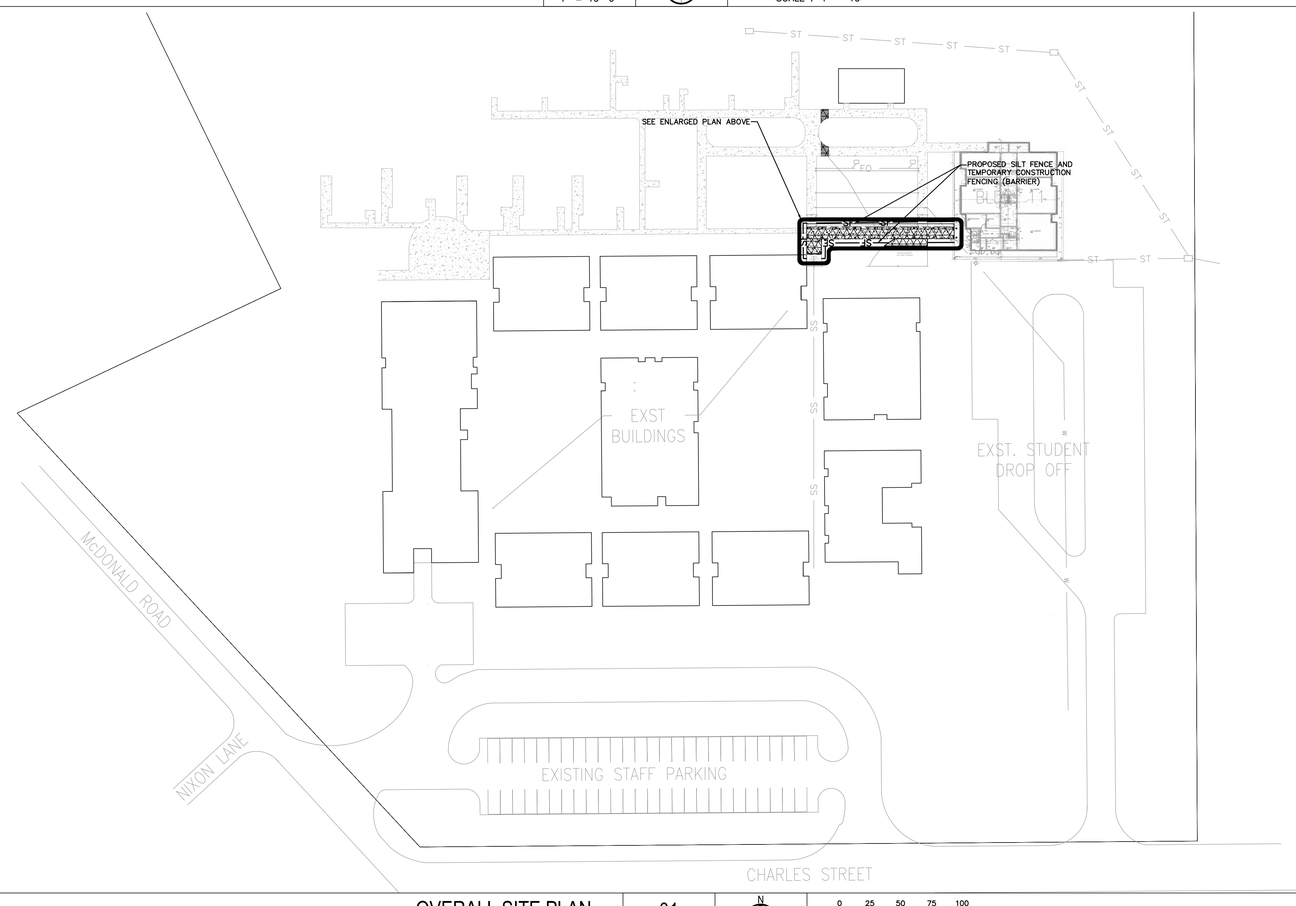
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ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

SHEET TITLE:
CONSTRUCTION NOTES

SHEET #:
C001



ENLARGED DEMO COVERED WALKWAY PLAN | 02 | 1" = 10'-0" | N | SCALE : 1" = 10'



OVERALL SITE PLAN | 01 | 1" = 40'-0" | N | SCALE : 1" = 50'

LEGEND:

- SF — PROPOSED SILT FENCE
- PROPOSED DEMOLITION/ CLEARING AREA
- EXISTING PVC PIPE
- UG — EXISTING UNDERGROUND ELEC
- FO — EXISTING UNDERGROUND FIBER
- W — EXISTING UNDERGROUND WATER
- ST — EXISTING UNDERGROUND STORM
- SS — EXISTING UNDERGROUND SANITARY

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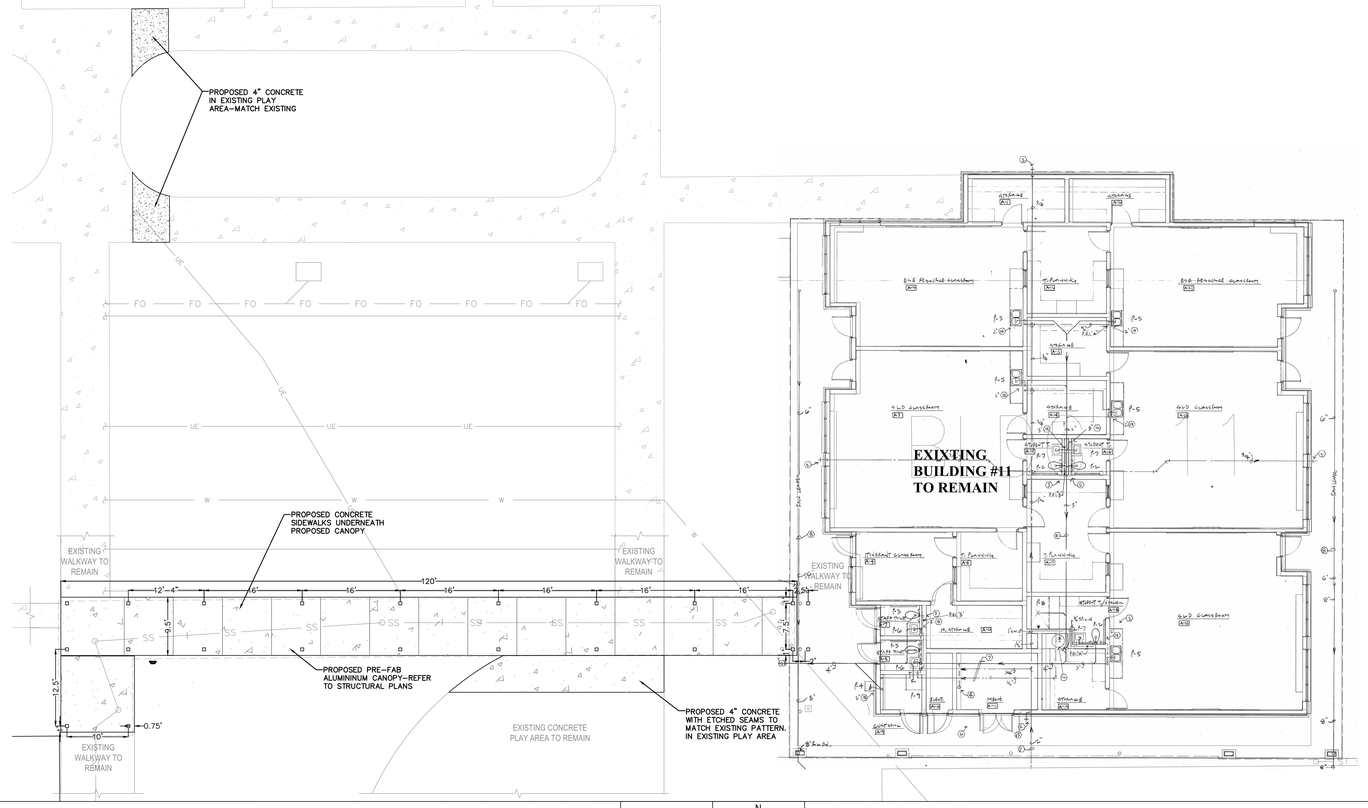
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REPLACE BLDG. 11 CANOPY
VCS Project No.: 2648294
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ARCHVENGR OF RECORD
ENGINEER
JOHN A DILLARD, JR.

DESIGNED BY	DRAWN BY
JAD	TKR
ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

SHEET TITLE:
DEMOLITION PLAN

SHEET #:
C100

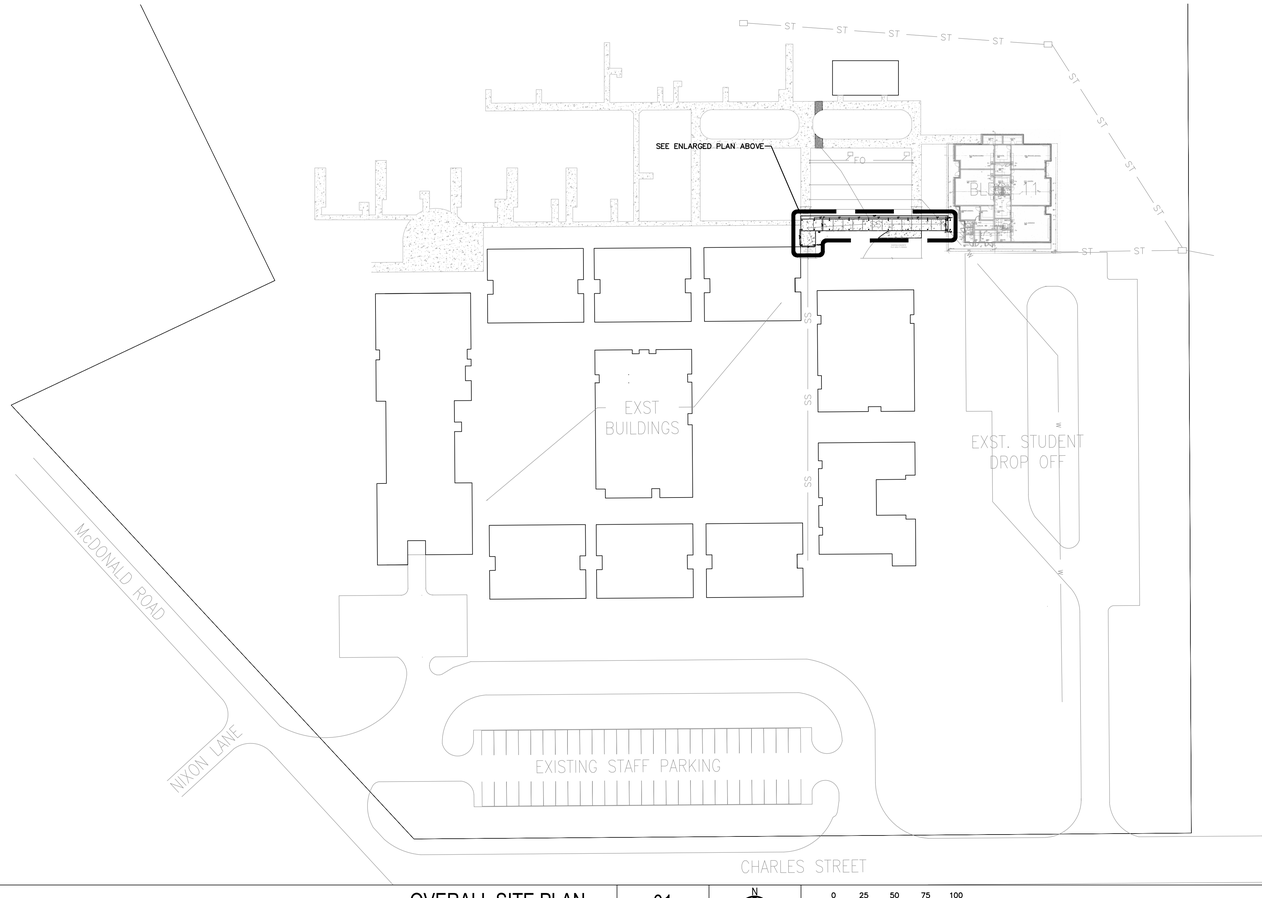


ENLARGED COVERED WALKWAY PLAN

02

1" = 10'-0"

SCALE : 1" = 10'



OVERALL SITE PLAN

01

1" = 40'-0"

SCALE : 1" = 50'

LEGEND:

- PROPOSED CONCRETE
- EXISTING PVC PIPE
- UG — EXISTING UNDERGROUND ELEC
- FO — EXISTING UNDERGROUND FIBER
- W — EXISTING UNDERGROUND WATER
- ST — EXISTING UNDERGROUND STORM
- SS — EXISTING UNDERGROUND SANITARY

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NO.	DATE	DESCRIPTION

DOCUMENT HISTORY

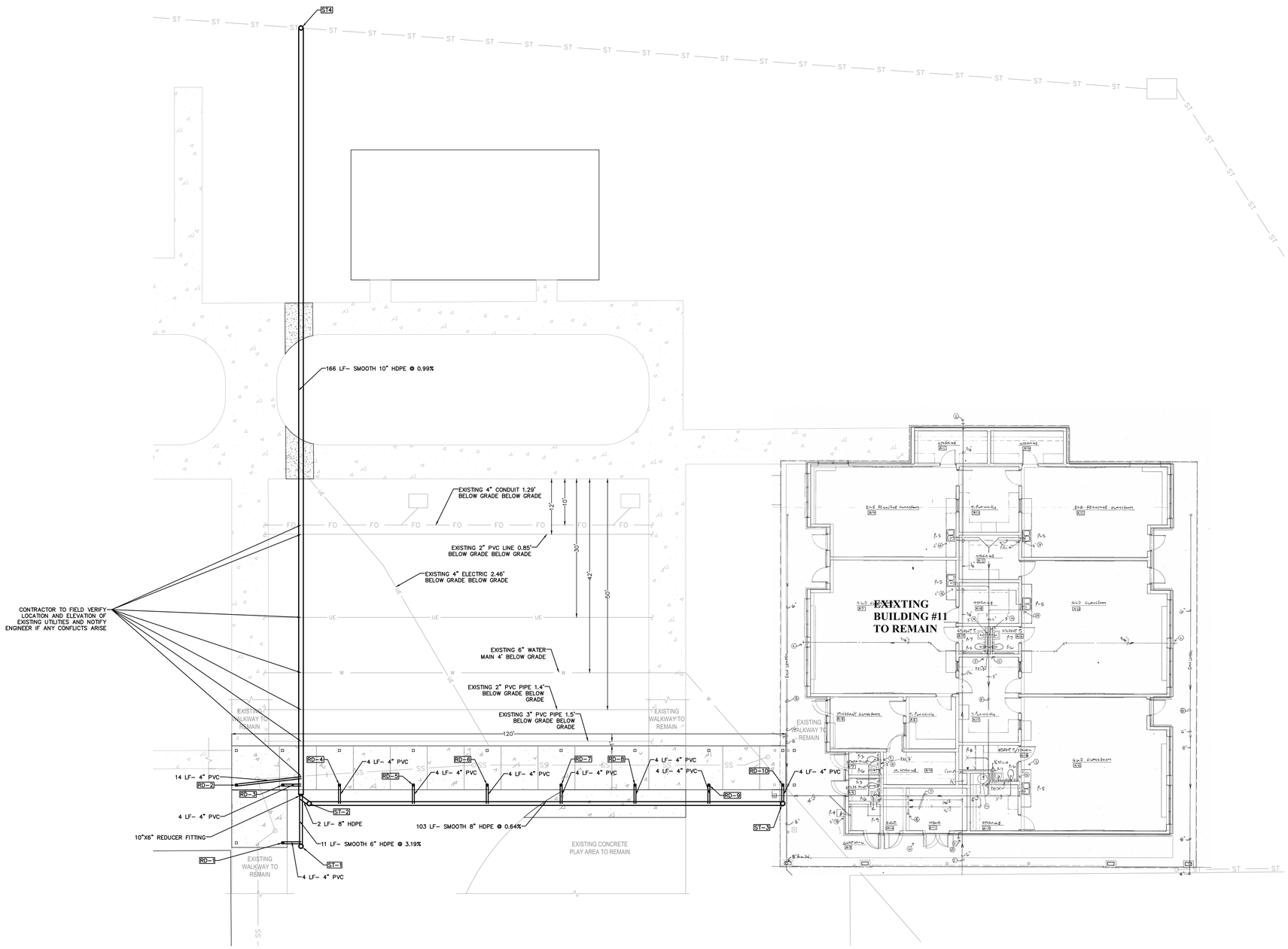
SUGAR MILL ELEMENTARY SCHOOL
REPLACE BLDG. 11 CANOPY
VCS Project No.: 2648294
1101 CHARLES ST, PORT ORANGE, FL 32129

ARCHI/ENGR OF RECORD
ENGINEER
JOHN A DILLARD, JR.

DESIGNED BY	DRAWN BY
JAD	TKR
ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

SHEET TITLE:
GEOMETRY AND LAYOUT PLAN

SHEET #:
C200



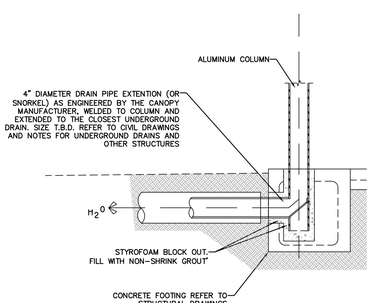
LEGEND:

- PROPOSED CONCRETE
- EXISTING PVC PIPE
- UG — EXISTING UNDERGROUND ELEC
- FO — EXISTING UNDERGROUND FIBER
- W — EXISTING UNDERGROUND WATER
- ST — EXISTING UNDERGROUND STORM
- SS — EXISTING UNDERGROUND SANITARY

NOTES:
1. SEE THIS SHEET FOR STORMWATER STRUCTURE TABLES.
2. CONTRACTOR TO FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES.

STORMWATER STRUCTURE TABLE

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE T.C.	PIPE INVERT(S), DIRECTION(S), SIZE(S)
RD-1	ROOF DRAIN	—	7.87 (E) 4" PVC
RD-2	ROOF DRAIN	—	7.87 (E) 4" PVC
RD-3	ROOF DRAIN	—	7.87 (E) 4" PVC
RD-4	ROOF DRAIN	—	7.87 (S) 4" PVC
RD-5	ROOF DRAIN	—	7.87 (S) 4" PVC
RD-6	ROOF DRAIN	—	7.87 (S) 4" PVC
RD-7	ROOF DRAIN	—	7.87 (S) 4" PVC
RD-8	ROOF DRAIN	—	7.87 (S) 4" PVC
RD-9	ROOF DRAIN	—	7.87 (S) 4" PVC
RD-10	ROOF DRAIN	—	7.87 (S) 4" PVC
ST-1	8" YARD DRAIN WITH CIRCULAR GRATE	9.50	7.50 (N) 6" HDPE
ST-2	8" YARD DRAIN WITH CIRCULAR GRATE	9.50	7.17 (E) 8" HDPE 7.17 (NW) 8" HDPE
ST-3	8" YARD DRAIN WITH CIRCULAR GRATE	9.38	7.83 (W) 8" HDPE 7.83 (N) 4" PVC
ST4	ADS 10" INSERTA TEE WITH A 6" CLEANOUT	8.80	5.50 (S) 10" HDPE



ENLARGED COVERED WALKWAY PLAN — 01 — 1" = 10'-0"

N

SCALE : 1" = 10'

WET COLUMN BASE — 01 — NTS

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Consultant:

REVISIONS

NO.	DATE	DESCRIPTION	DOCUMENT HISTORY

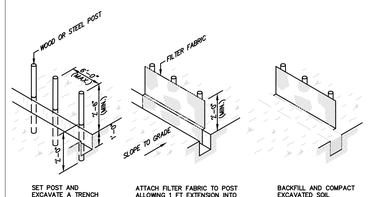
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ENGINEER
JOHN A DILLARD, JR.
ARCHITECT OF RECORD

DESIGNED BY	DRAWN BY
JAD	TKR
ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

SHEET TITLE:
DRAINAGE PLAN

SHEET #:
C300

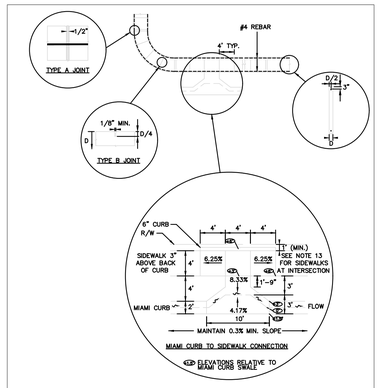


SILT FENCE DETAIL

NOTES:

1. MATERIALS, CONSTRUCTION METHODS AND MAINTENANCE SHALL BE IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (LATEST EDITION).
2. CONTRACTOR SHALL PROVIDE SILT FENCES OR HAVE BEST MANAGEMENT PRACTICES IMPLEMENTED AS REQUIRED AT ALL STORMWATER DISCHARGE POINTS FOR EROSION CONTROL AND SEDIMENT CONTROL DURING CONSTRUCTION.
3. CONTRACTOR SHALL ROUGH GRADE STORMWATER SWALES AND RETENTION AREAS PRIOR TO CONSTRUCTION OF SITE IMPROVEMENTS.
4. CONTRACTOR SHALL MEET ALL PERMIT CONDITIONS AS ESTABLISHED BY THE CITY OF PORT ORANGE AND ALL OTHER APPLICABLE AGENCIES, INCLUDING BUT NOT LIMITED TO COUNTY, FDOT, AND THE SJRWMD.
5. CONTRACTOR WILL BE ALLOWED TO USE A SMALL PIECE OF EQUIPMENT UP 6' WIDTH AND 1.5 TON WEIGHT, TO CLEAR A NARROW PATH TO INSTALL THE SILT FENCE.

	STANDARD CONSTRUCTION DETAIL SILT FENCE TURBIDITY BARRIER	FILE NAME: M23.DWG DETAIL REF: M-23
	REV. 12/18	

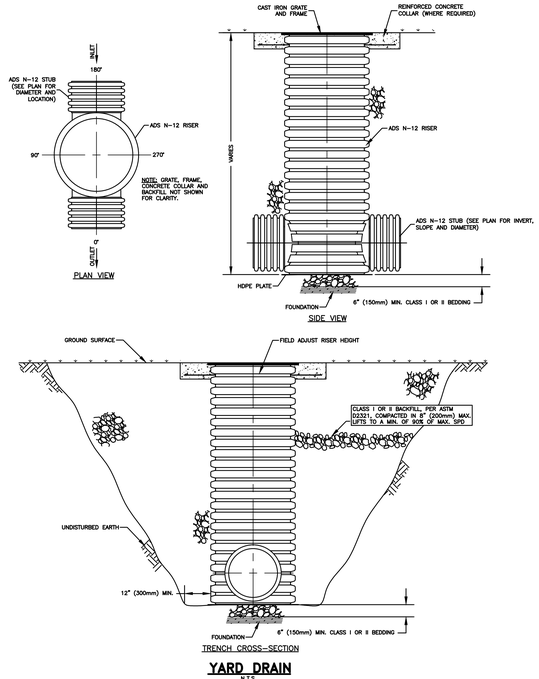


	STANDARD CONSTRUCTION DETAIL SIDEWALK CONSTRUCTION REQUIREMENTS	FILE NAME: M6.DWG DETAIL REF: M-6
	REV. 12/18	

NOTES:

1. ALL CONCRETE SIDEWALKS AND BIKE PATHS IN PUBLIC RIGHT-OF-WAYS, PRIVATE RIGHT-OF-WAYS, COMMON AREAS IN RESIDENTIAL SITES, COMMERCIAL, INDUSTRIAL, INSTITUTIONAL, MULTI-FAMILY OR MIXED-USE SITES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SPECIFICATIONS LISTED BELOW.
2. EXCEPTION TO THE SPECIFICATIONS BELOW WILL BE FOR PRIVATE RESIDENTIAL SIDEWALKS NOT LOCATED IN A COMMON AREA.
3. SIDEWALKS, BIKE PATHS, RAMPS, AND DRIVEWAY APRONS SHALL BE CONSTRUCTED OF PLAIN PORTLAND CEMENT CONCRETE HAVING A MAXIMUM SLUMP OF 3", A MINIMUM DEVELOPED COMPRESSIVE STRENGTH OF 2,500 PSI IN 28 DAYS, AND A MINIMUM UNIFORM THICKNESS OF 4" WHERE INTENDED SOLELY FOR PEDESTRIAN TRAFFIC, AND 6" WHERE MOTOR VEHICLES ARE LIKELY TO CROSS.
4. 2-#4 METAL REINFORCEMENT BARS WITH MINIMUM 6" OVERLAPS SHALL BE INSTALLED LONGITUDINALLY 3" FROM THE EDGE. THE BARS SHALL BE LOCATED AT MID DEPTH OF THE CONCRETE. THE BARS SHALL BE PLACED ON NON FERROUS SPACERS TO ENSURE REQUIRED SEPARATION FROM SUBGRADE.
5. THE EXISTING SUBGRADE SHALL HAVE ALL ORGANIC, LOOSE, AND DELETERIOUS MATTER REMOVED, AND THE REMAINING CLEAN SOIL AND FILL SHALL BE SMOOTH, SOUND, AND SOLID. THE SUBGRADE SHALL BE COMPACTED TO A MINIMUM 95% DENSITY BASED ON MODIFIED PROCTOR DRY TEST PER AASHTO T-180.
6. ALL CONCRETE WORK IN THE RIGHT-OF-WAY SHALL BE INSPECTED BY THE CITY AFTER THE SUBGRADE IS PREPARED AND THE FORMS ARE SET, BUT BEFORE THE CONCRETE PLACEMENT BEGINS.
7. SIDEWALKS SHALL BE PLACED PARALLEL TO AND 12" WITHIN THE RIGHT-OF-WAY LINE, EXCEPT THAT THE CITY MAY APPROVE DEVIATIONS TO SAVE SPECIMEN TREES PROVIDED THAT THE SIDEWALK REMAINS WITHIN THE RIGHT-OF-WAY OR AN APPROVED SIDEWALK EASEMENT ABUTTING THE RIGHT-OF-WAY IS RECORDED.
8. THE TOP OF THE SIDEWALK PARALLEL WITH CURB AND GUTTER SHALL BE AT AN ELEVATION NO LOWER THAN THE CROWN OF THE ADJACENT ROADWAY AND NO HIGHER THAN 6" ABOVE THE CROWN, UNLESS APPROVED BY THE CITY, TO MAKE A MORE NATURAL TRANSITION WITH THE ADJACENT LAND.
9. THE CONCRETE SURFACE SHALL BE BROOM FINISHED TO BE SLIP RESISTANT AND SHALL MATCH AS CLOSELY AS POSSIBLE THE FINISH OF EXISTING ADJACENT SLABS AND ALL EDGES SHALL BE TOOLED TO ELIMINATE SHARP CORNERS.
10. ISOLATION JOINTS (TYPE A JOINTS) SHALL BE PROVIDED BETWEEN EXISTING CONCRETE OR STRUCTURES AND FRESH CONCRETE, TO SEPARATE PEDESTRIAN SECTIONS FROM SECTIONS WHICH WILL ENCOUNTER VEHICLE TRAFFIC, TO SEPARATE FRESH PLACEMENT FROM CONCRETE WHICH HAS SET FOR MORE THAN 60 MINUTES, AND NO FARTHER APART THAN 100'. JOINT MATERIAL SHALL BE PREFORMED JOINT FILLER MEETING FDOT SPECIFICATIONS.
11. CONTROL JOINTS (TYPE B JOINTS) SHALL BE TOOLED INTO THE FRESH CONCRETE TO A DEPTH EQUAL TO 1/4 THE SLAB THICKNESS, 1/8" WIDTH, AND SPACED APART A DISTANCE EQUAL TO THE WIDTH OF THE SLAB OR 48", WHICHEVER IS GREATEST.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE FINISHED SIDEWALK FROM ALL DAMAGE AND VANDALISM UNTIL THE CITY ACCEPTS OR APPROVES THE SIDEWALK, AFTER WHICH TIME THE OWNER OF THE ABUTTING LAND SHALL BE RESPONSIBLE FOR THE SIDEWALK IN ACCORDANCE WITH THE CITY CODE. ANY SIDEWALK SECTION DAMAGED OR VANDALIZED PRIOR TO ACCEPTANCE OR APPROVAL SHALL BE CUT OUT BETWEEN JOINTS AND REPLACED. REPAIRS ARE NOT ACCEPTABLE.
13. SIDEWALKS LOCATED WITHIN THE RIGHT-OF-WAY SHALL NOT BE TINTED, STAINED, COLORED, OR COATED.
14. ALL FORMS SHALL BE REMOVED PRIOR TO ACCEPTANCE OR APPROVAL AND THE DISTURBED GROUND SHALL BE BACKFILLED, RE-GRADED, AND SODDED SO THAT THE WEAR SURFACE OF THE CONCRETE IS REASONABLY FLUSH WITH THE ADJACENT SOIL GRADE.
15. AT INTERSECTIONS WITH SIDEWALK TO MIAMI CURB CONNECTIONS AT EACH CORNER, THE 3" RISE TO SIDEWALK FINAL GRADE WILL BE OMITTED BETWEEN CONNECTIONS.

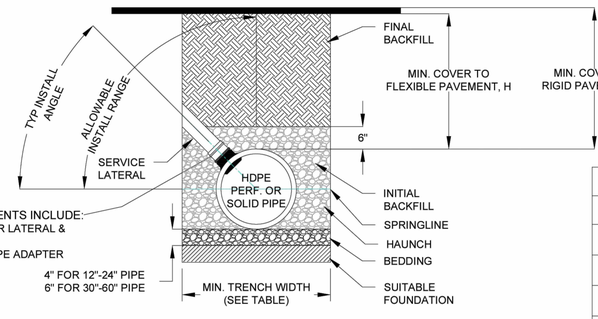
	STANDARD CONSTRUCTION DETAIL SIDEWALK CONSTRUCTION REQUIREMENTS	FILE NAME: M6.DWG DETAIL REF: M-6.1
	REV. 12/18	



YARD DRAIN

N.T.S.

INSERTA TEE ® DETAIL (HDPE)



RECOMMENDED MINIMUM TRENCH WIDTHS	
PIPE DIAM.	MIN. TRENCH WIDTH
4" (100mm)	21" (533mm)
6" (150mm)	23" (584mm)
8" (200mm)	26" (660mm)
10" (250mm)	28" (711mm)
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	48" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1626mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
54" (1350mm)	88" (2235mm)
60" (1500mm)	96" (2438mm)

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. THE INSERTA TEE CONNECTION CAN BE INSTALLED UP TO A VERTICAL ORIENTATION, BUT A 45° INSTALL ANGLE IS MOST COMMON. GREATER ANGLES ARE SUBJECT TO DESIGN ENGINEER APPROVAL AND MAY REQUIRE PREMIUM BACKFILL.

4. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

5. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).

6. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.

7. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

NOTE: FOR INSTALLATION INSTRUCTIONS, REFER TO DETAIL STD-1100. FOR PROTRUSION INFORMATION, REFER TO DETAIL STD-1101. FOR HOLE SAW INFORMATION, REFER TO DETAIL STD-1102.

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

INSERTA TEE DETAIL (HDPE)

DRAWING NUMBER STD-1011

4640 TRUEMAN BLVD
HILLIARD, OH 43026

DRAWN BY: HAK
DATE: 07/19/23
CK'S BY: ENG
SCALE: NTS
SHEET: 1

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68-6910 LC NO
(PROJ. NO 26046)
Consultant:

REVISIONS

NO.	DATE	DESCRIPTION

DOCUMENT HISTORY

SUGAR MILL ELEMENTARY SCHOOL
REPLACE BLDG. 11 CANOPY
VCS Project No.: 2648294
1101 CHARLES ST, PORT ORANGE, FL 32129

ENGINEER
JOHN A DILLARD, JR.
ARCHIVE/OR OF RECORD

DESIGNED BY: JAD	DRAWN BY: TKR
ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

SHEET TITLE:
CONSTRUCTION DETAILS

SHEET #:
C400

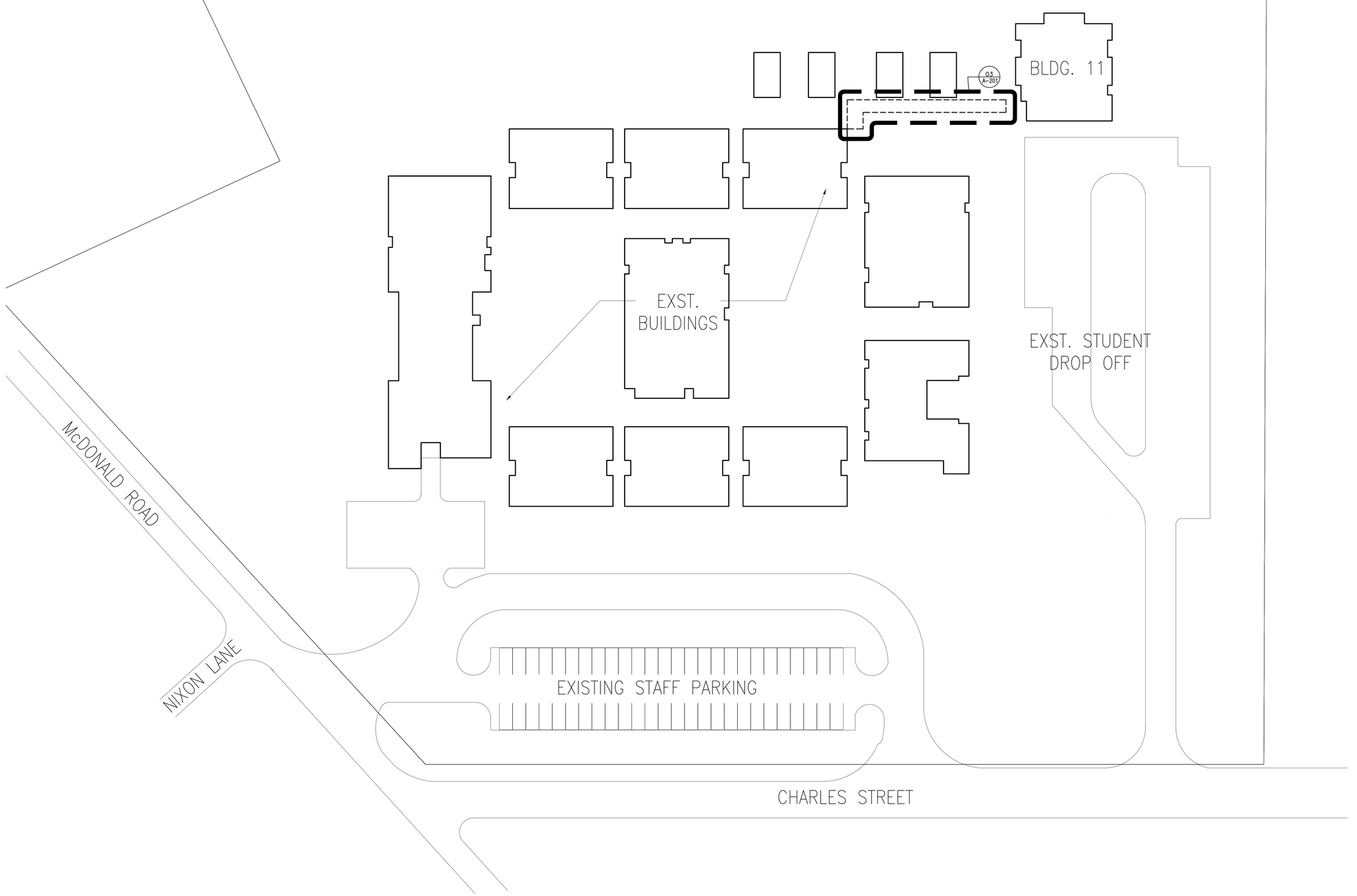
SITE PLAN LEGEND

NEW CANOPY

PROPERTY LINE

NEW CONSTRUCTION GENERAL NOTES

1. REFER TO CIVIL DRAWINGS FOR ALL SITE ELEMENTS AND LOCATIONS.
2. IT IS THE INTENT OF THE ARCHITECT THAT THIS WORK BE IN CONFORMANCE WITH ALL REQUIREMENT OF THE BUILDING AUTHORITIES HAVING JURISDICTION OVER THIS TYPE OF CONSTRUCTION AND OCCUPANCY. THEREFORE, ALL CONTRACTORS AND SUBCONTRACTORS SHALL PERFORM ALL REQUIRED WORK IN CONFORMANCE WITH THE SAME CODES, REGULATIONS AND LAWS.
3. CONTRACTOR SHALL VERIFY ALL RELATED/REQUIRED INFORMATION FOR ANY SPECIALTY EQUIPMENT OR ITEMS WITH RESPECTIVE MANUFACTURER'S BEFORE THE START OF CONSTRUCTION.
4. CONTRACTOR SHALL SUPPLY, LOCATE, PROVIDE AND/OR BUILD CONNECTIONS/INSERTS FOR ALL STRUCTURAL MEMBERS EQUIPMENT, MATERIALS, ATTACHMENTS AND ACCESSORIES NEEDED IN THE CONSTRUCTION WORK.
5. CONTRACTOR WORK SHALL COMPLY WITH ALL GOVERNING FEDERAL, STATE, AND LOCAL LAW STATUES, ORDINANCES, REGULATORY CODES AND THE REQUIREMENTS OF RELEVANT INSURANCE RATING BOARDS. CONSTRUCTION OF ALL IMPROVEMENT SHALL COMPLY WITH ALL GOVERNING CODES FOR THE AUTHORITY HAVING JURISDICTION.
6. CONTRACTORS SHALL BE LICENSED AND INSURED TO PROVIDE SERVICES IN THE LOCALE OF THE AUTHORITY HAVING JURISDICTION AND SHALL INCLUDE INSURANCE COVERAGE REQUIRED BY THE OWNER AND THE CONTRACT DOCUMENTS.
7. CONTRACTOR IS RESPONSIBLE FOR SECURING ALL REQUIRED PERMITS AND A CERTIFICATE OF OCCUPANCY OR CERTIFICATE OF COMPLETION FOR THE WORK PERFORMED.
8. CONTRACTORS AND SUBCONTRACTORS SHALL VISIT THE SITE TO REVIEW EXISTING CONDITIONS AND THE SCOPE OF WORK PRIOR TO SUBMITTING BIDS AS FEASIBLE. COORDINATE SITE VISIT WITH OWNERS REPRESENTATIVE.
9. DESIGN WIND SPEED 155.



OVERALL SITE PLAN

01
1" = 40'-0"

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Consultant:

REVISIONS
DOCUMENT HISTORY

NO	DATE	DESCRIPTION

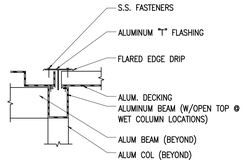
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Architect
JOHN V QUATTRONE
ARCHENGR OF RECORD

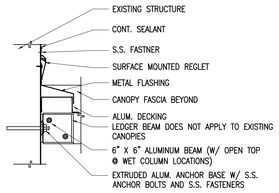
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	CR
ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

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OVERALL SITE PLAN

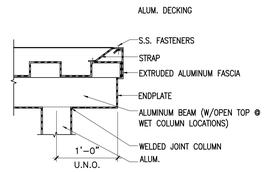
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A100



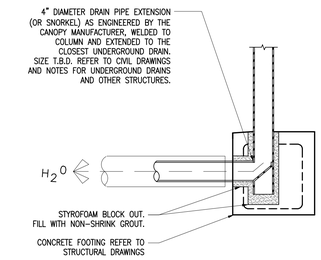
CANOPY SEAM DET | 05 | 1" = 1'-0"



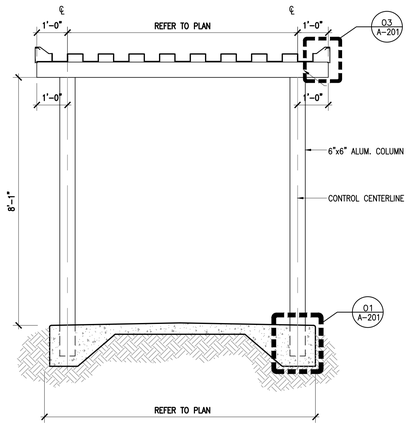
CANOPY TIE IN DET | 04 | 1" = 1'-0"

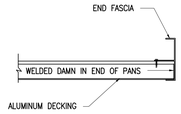


CANOPY EDGE DET | 03 | 1" = 1'-0"

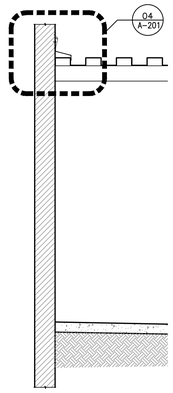


WET COLUMN BASE | 01 | 1" = 1'-0"



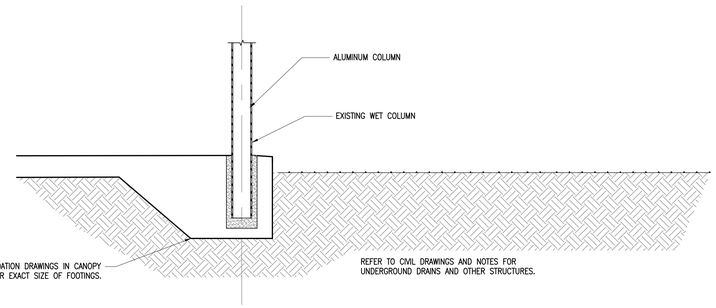


NOTE:
ACTUAL CANOPY CONNECTIONS SHALL BE ENGINEERED BY THE CANOPY MANUFACTURER SHOP DRAWINGS. (TYPICAL)

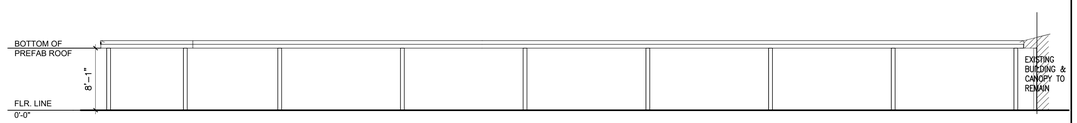


ALUMINUM CANOPY SECTION | 06 | 1/2" = 1'-0"

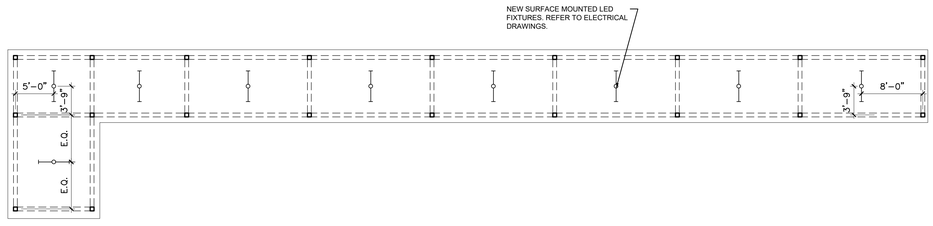
CANOPY TIE IN TO EXISTING | 07 | 1" = 1'-0"



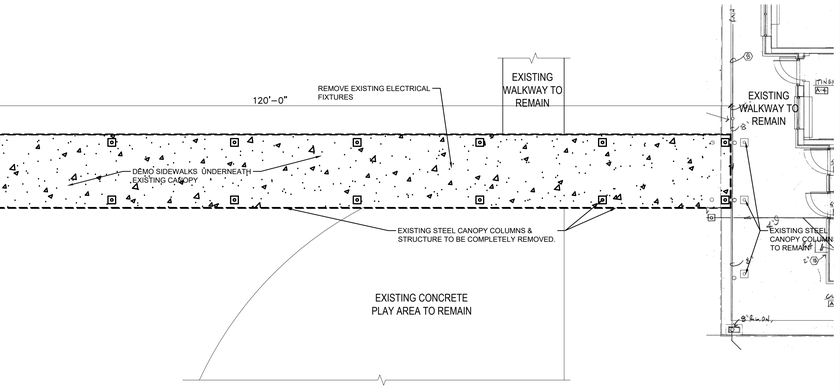
WET COLUMN BASE | 02 | 1" = 1'-0"



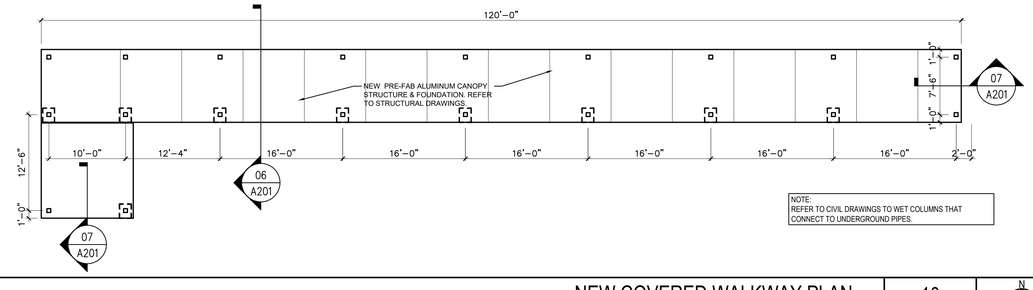
CANOPY ELEVATION | 07 | 1/8" = 1'-0"



NEW CANOPY RCP | 08 | 1/8" = 1'-0" | N



DEMO COVERED WALKWAY PLAN | 09 | 1/8" = 1'-0" | N



NEW COVERED WALKWAY PLAN | 10 | 1/8" = 1'-0" | N

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Architect
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ARCHENGR OF RECORD

DESIGNED BY	DRAWN BY
	CR
ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

SHEET TITLE:
COVERED CANOPY PLAN & DETAILS

SHEET #:
A201

DESIGN CRITERIA

D1 ALL WORK AND DESIGNS SHALL CONFORM TO AT LEAST THE MINIMUM STANDARDS OF THE FLORIDA BUILDING CODE (FBC), EIGHTH EDITION (2023) AND THE LIFE SAFETY CODES. WIND DESIGN FOR COMPONENTS AND CLADDING SHALL BE BASED ON THE ASCE 7-22 CODE WITH A WIND RISK CATEGORY FOR EDUCATIONAL FACILITIES OF III. THIS APPLIES TO ALL STRUCTURAL COMPONENTS INCLUDING ALUMINUM WALKWAY CANOPIES, FLAG POLES, SITE LIGHTING POLES, BLEACHERS AND THE LIKE.

D2 DESIGN LOAD VALUES ARE INDICATED ON THE APPROPRIATE SHEETS AS FOLLOWS:
FOUNDATION DESIGN - SEE FOUNDATION NOTE F2 ON THIS SHEET
ROOF FRAMING DESIGN - SHEET S201
WIND DESIGN - SHEET S002
RAIN DESIGN:
15 MINUTE RAINFALL INTENSITY: 8.86 in/HR
60 MINUTE RAINFALL INTENSITY: 4.93 in/HR

D3 TO THE BEST OF THE ENGINEER'S KNOWLEDGE, THE STRUCTURAL PLANS AND SPECIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE BUILDING CODE AND CODES LISTED IN D1.

D4 EVERY REASONABLE EFFORT HAS BEEN MADE TO ENSURE COORDINATION BETWEEN THESE DRAWINGS AND THE BOUND STRUCTURAL SPECIFICATIONS. SHOULD THERE BE ANY DISCREPANCIES, THE CONTRACTOR SHALL REQUEST A CLARIFICATION IN WRITING.

SPECIALTY ENGINEERING REQUIREMENTS

SE1 ALUMINUM AWNINGS, WALKWAY CANOPIES AND THEIR FOUNDATIONS SHALL BE DESIGNED BY THE FABRICATOR'S SPECIALTY ENGINEER AND SHALL INCLUDE FRAME, COVERING AND CONNECTIONS. SHOP DRAWINGS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AND MUST BE SIGNED, DATED AND SEALED BY A STRUCTURAL ENGINEER IN THE SAME STATE AS THE PROJECT LOCATION. DESIGN LOADING(S) SHALL CONFORM TO ALL REQUIREMENTS OF THE BUILDING CODE. (SEE DESIGN CRITERIA FOR THE APPLICABLE BUILDING CODE). ALUMINUM WALKWAY CANOPY MANUFACTURER SHALL PROVIDE CONCRETE SUB-CONTRACTOR BIDDERS WITH FOUNDATION AND REINFORCING REQUIREMENTS FOR THEIR CANOPY SYSTEM PRIOR TO BID.

SE2 PROVIDE ENGINEERED SUBMITTALS, SIGNED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE SAME STATE AS THE PROJECT LOCATION, FOR ALL MECHANICAL, ELECTRICAL AND PLUMBING SUPPORTS OR ATTACHMENTS NOT INCLUDED WITHIN THE CONSTRUCTION DOCUMENTS FOR ALL ITEMS THAT REQUIRE ANYTHING OTHER THAN THE MANUFACTURER'S STANDARD HARDWARE OR ARE EXPOSED TO WIND LOADS. AN EXAMPLE OF POSSIBLE ITEMS THAT THIS WOULD APPLY TO ARE, INCLUDING BUT NOT LIMITED TO, ROOFTOP AND/OR WALL MOUNTED DUCTS, PIPES AND TRANSFORMERS.

GENERAL

G1 THE GENERAL CONTRACTOR SHALL REVIEW AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.

G2 THE GENERAL CONTRACTOR SHALL PROVIDE ALL MEASURES AS NECESSARY TO PROTECT THE STRUCTURE, THE WORK PERSONNEL AND OTHER PEOPLE DURING CONSTRUCTION. HE SHALL SUPERVISE AND DIRECT THE WORK AND BE RESPONSIBLE FOR ALL CONSTRUCTION.

G3 NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.

G4 THE GENERAL CONTRACTOR SHALL COORDINATE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ANCHORED, EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.

G5 ALL SHOP DRAWING SUBMITTALS SHALL BE SUBMITTED VIA ELECTRONIC MEDIA (i.e. PDF OR DWF FORMAT). HARD COPY SUBMITTALS WILL NOT BE ACCEPTED.

1. SUBMITTALS SHALL NOT BE SECURED IN ANY FORMAT THAT WILL PREVENT COMMENTS FROM BEING ADDED.
2. SUBMITTALS THAT ARE REQUIRED TO BE SIGNED AND SEALED SHALL BE SUBMITTED WITH A CERTIFIED DIGITAL SIGNATURE CONSISTENT WITH REQUIREMENTS OF STATE LAW WHERE THE PROJECT IS LOCATED. INVALID OR BLANK SIGNATURE FIELDS WILL NOT BE ACCEPTED.
3. SUBMITTALS THAT ARE MARKED PRELIMINARY OR ARE OTHERWISE INCOMPLETE WILL BE RETURNED REJECTED AND OR NOT REVIEWED. SUBMITTALS SHALL BE IN A FINAL OR COMPLETED STATE PRIOR TO SUBMISSION TO BBM.

G6 ANY SUBMITTALS RECEIVED BY ARCH/ENG THAT HAVE NOT BEEN CHECKED BY THE GC AND HIS SUBCONTRACTOR SHALL BE RETURNED WITHOUT REVIEW.

G7 ALL SECTIONS AND DETAILS SHALL BE CONSTRUED TO BE TYPICAL OR SIMILAR UNLESS ANOTHER SECTION OR DETAIL IS NOTED.

G8 ANY CONFLICTS NOTICED, OR OBSERVED, BETWEEN THE WRITTEN SPECIFICATIONS AND THE CONSTRUCTION DOCUMENTS DURING PROJECT BIDDING OR PROJECT CONSTRUCTION SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE STRUCTURAL ENGINEER-OF-RECORD. IF SUCH DISCREPANCY IS NOT NOTICED OR BROUGHT TO THE ATTENTION OF THE STRUCTURAL ENGINEER-OF-RECORD FOR WRITTEN CLARIFICATION, THE CONTRACTOR/SUBCONTRACTOR SHALL PROVIDE, AT PROJECT BID OR DURING PROJECT CONSTRUCTION, THE MORE STRINGENT AND/OR MORE COSTLY OF THE TWO ITEMS IN THE BID AND/OR FINAL INSTALLATION.

G9 "BBM STRUCTURAL ENGINEERS" ASSUMES NO RISK OR LIABILITY FOR THE SITE SAFETY OR WELL-BEING OF ANY CONTRACTOR, SUB-CONTRACTOR NOR THEIR EMPLOYEES DURING THE CONSTRUCTION OF THE PROJECT CONTAINED IN THESE DOCUMENTS.

G10 GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL SUPPLY ALL SUB-CONTRACTORS WITH THE STRUCTURAL GENERAL NOTE SHEETS AS WELL AS THE STRUCTURAL DRAWINGS.

G11 THE CONTRACTOR'S MEANS AND METHODS SHALL FULLY CONFORM TO THE REQUIREMENTS OF SEI/ASCE 37 (DESIGN LOADS ON STRUCTURES DURING CONSTRUCTION) UNTIL ALL OF THE STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE RECEIVED THE INSPECTOR'S APPROVAL.

G12 DIMENSIONS AND ELEVATIONS SHOWN FOR EXISTING CONSTRUCTION ARE APPROXIMATE. DIMENSIONS AND ELEVATIONS SHOWN ARE NOT FIELD MEASURED. CONTRACTOR SHALL FIELD VERIFY AND/OR DETERMINE DIMENSIONS, ELEVATIONS AND GEOMETRY OF EXISTING CONSTRUCTION. REPORT DISCREPANCIES TO ARCHITECT IMMEDIATELY.

FOUNDATIONS

F1 SUBSURFACE INVESTIGATION HAS NOT BEEN PERFORMED AND GEOTECHNICAL ENGINEERING REPORT WAS NOT AVAILABLE FOR FOUNDATION DESIGN. PRIOR TO CONSTRUCTION, THE OWNER SHALL RETAIN THE SERVICES OF A QUALIFIED GEOTECHNICAL ENGINEER TO PERFORM SOIL TEST BORINGS, PROVIDE RECOMMENDATIONS FOR FOUNDATION DESIGN (INCLUDING NET ALLOWABLE SOIL BEARING PRESSURE), PROVIDE EARTHWORK COMPACTION CRITERIA AND PERFORM SOIL TESTING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ALL EARTHWORK OPERATIONS IN STRICT ACCORDANCE WITH THIS REPORT. IF THE FOUNDATION RECOMMENDATIONS AND NET ALLOWABLE SOIL BEARING CAPACITY DIFFER FROM THE ASSUMED VALUE, THEN MODIFICATIONS TO THE DRAWINGS WILL BE REQUIRED. SHOULD THIS OCCUR, THE CONTRACTOR SHALL STOP CONSTRUCTION AND NOTIFY ARCHITECT/ ENGINEER IMMEDIATELY.

F2 FOUNDATION DESIGN IS BASED ON AN ASSUMED NET ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF. COMPACTION UNDER ALL FOUNDATIONS SHALL ALSO BE AS STATED IN NOTE SOG1.

F3 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY-STANDARD SOIL DENSITY TESTS TO ENSURE CONFORMANCE WITH GEOTECHNICAL SOILS REPORT. SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

F4 CONTRACTOR, IN CONJUNCTION WITH GEOTECHNICAL FIELD REPRESENTATIVE, SHALL DETERMINE IF ANY UNSUITABLE CONDITIONS ARE DISCOVERED DURING EXCAVATION WHICH WOULD PREVENT ATTAINMENT OF THE DESIGN SOIL PRESSURE RECOMMENDED BY THE SOILS REPORT.

SLAB ON GRADE

SOG1 UNLESS NOTED OTHERWISE IN THE GEOTECHNICAL REPORT, COMPACT INTERIOR FILL TO 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D1557). SOIL COMPACTION SHALL BE FIELD-CONTROLLED BY A REPRESENTATIVE TECHNICIAN OF A QUALIFIED LABORATORY. EACH LAYER OF FILL SHALL NOT EXCEED 12" THICK AND SHALL BE COMPACTED PRIOR TO PLACEMENT OF NEXT LAYER.

SOG2 MAXIMUM SPACING OF CONTROL JOINTS (i.e. SAWCUT JOINT OR CONSTRUCTION JOINT) SHALL BE AS SET IN THE TABLE BELOW, OR AS NOTED ON PLANS. THE MORE STRINGENT SHALL APPLY. PATTERNS SHALL BE APPROXIMATELY SQUARE WITH A RATIO OF LONG SIDE TO SHORT SIDE NOT EXCEEDING 1.5 TO 1. SEE SLAB-ON-GRADE DETAILS FOR ADDITIONAL INFORMATION.

SLAB THICKNESS (IN)	* 3/4" OR LARGER AGGREGATE SPACING (FT)
4	12
5	13
6	14
7 AND GREATER	15

* MIX DESIGNS CONTAINING AGGREGATE LESS THAN 3/4" ARE NOT ACCEPTABLE.

CONCRETE AND REINFORCING

C1 A CERTIFIED TESTING AGENCY SHALL BE ENGAGED TO PERFORM INDUSTRY STANDARD TESTING INCLUDING SLUMP TESTS AND CYLINDER BREAKS TO ENSURE CONFORMANCE WITH PLANS AND SPECIFICATIONS (IF PROVIDED). SUBMIT REPORTS TO ARCHITECT AND ENGINEER.

C2 CONCRETE WORK SHALL CONFORM TO ACI 318-19 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE.

C3 ALL CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:

LOCATION	28 DAY STRENGTH	SLUMP	COARSE AGGREGATE(S)	EXPOSURE CATEGORIES & CLASSES (PER ACI 318-19 SECTION 19.3.1)			
				F	S	W	C
FOUNDATIONS	3000 PSI	4" +/- 1"	1"	F0	S0	W0	C1
SLAB-ON-GRADE: FOOT TRAFFIC	3000 PSI	4" +/- 1"	1"	F0	S0	W0	C1

NOTES:
1. UNLESS NOTED IN COMMENTS ABOVE, ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE.
2. ALL CONC MIXES SHALL HAVE A MAXIMUM SAND TO TOTAL AGGREGATE RATIO OF 0.50.
3. A 2" OR 3" PUMP WILL NOT BE ALLOWED FOR FOUNDATIONS, SLABS.
4. SLABS SHALL NOT BE AIR ENTRAINED.

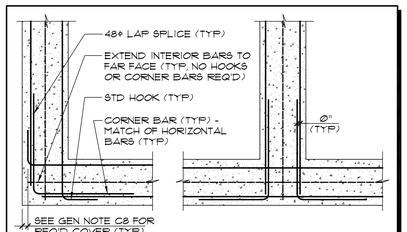
C4 CONCRETE MIX DESIGN SUBMITTALS:
1. EACH MIX DESIGN SHALL BE LABELED TO INDICATE THE AREA IN WHICH THE CONCRETE IS TO BE PLACED (I.E. FOUNDATIONS, SLAB-ON-GRADE, COLUMNS, ETC.). FAILURE TO DO SO WILL CAUSE DELAY AND/OR REJECTION OF SUBMITTALS.
2. PROPOSED MIX DESIGN SHALL BE IN ACCORDANCE WITH METHOD 1 OR METHOD 2 OF ACI 301. PROVIDE SUPPORTING DATA IN TABULAR FORM FOR EACH SEPARATE PROPOSED MIX.
3. SUBMIT CONCRETE MIX DESIGN FOR EACH PROPOSED CLASS OF CONCRETE.

C5 REBAR SHALL CONFORM TO ASTM A615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064 AND SHALL BE LAPPED MINIMUM ONE MESH + 2" WHERE SPLICED. ALL REINFORCING SHALL BE DOMESTICALLY PRODUCED. ALL REBAR THAT IS TO BE WELDED SHALL BE LOW ALLOY ASTM A706 GRADE 60.

C6 SPLICES AND ANCHORAGE OF REINFORCING SHALL BE AS FOLLOWS (UNLESS OTHERWISE NOTED):

WELDED WIRE FABRIC: 8"
ALL OTHER (UNLESS SCHEDULED OTHERWISE): #6 BAR & SMALLER: 48 DIA (12" MIN)
#7 BAR & LARGER: 60 DIA

C7 REINFORCEMENT IN WALLS, FOOTINGS AND BEAMS SHALL BE CONTINUOUS AND LAPPED 48 BAR DIA AT SPLICE UNLESS OTHERWISE NOTED. HOOK AND LAP ALL CORNER AND INTERSECTING BARS. (SEE REINF DEVELOPMENT DETAIL).

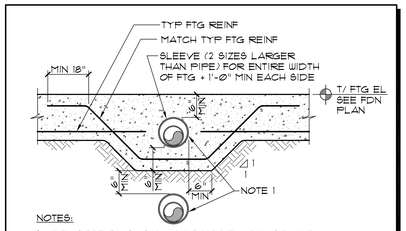


REINF DEVELOPMENT DETAIL

C8 COVER FOR REINFORCING SHALL BE AS FOLLOWS:

CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#6 THRU #18 BARS:	2"
#5 BAR, W31 OR D31 WIRE AND SMALLER:	1 1/2"

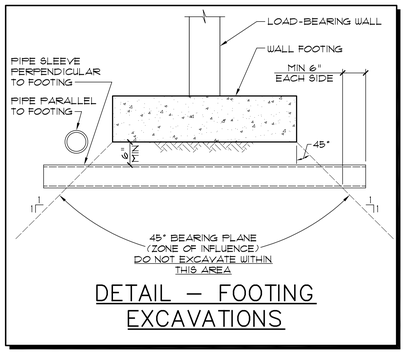
C9 FOOTING PENETRATION DETAILS:



NOTES:
1. THE ANNULAR SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED IN AN APPROVED MANNER WITH A FLEXIBLE GASKETING SYSTEM AT EACH END. MATERIALS SHALL BE COMPATIBLE WITH THE PIPE SLEEVE AND BUILDING MATERIALS IN CONTACT WITH THE SEALING MATERIALS.
2. PIPE MUST BE 90° (1ø0") TO WALL FTG.

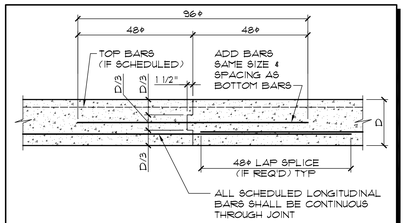
DETAIL – FOOTING PENETRATIONS

C10 FOOTING EXCAVATION DETAIL:



DETAIL – FOOTING EXCAVATIONS

C11 FOOTING CONSTRUCTION JOINT (IF REQUIRED):



DETAIL – FOOTING CONSTRUCTION JOINT

POST-INSTALLED ANCHORS

PIA1 POST-INSTALLED ANCHORS SHALL ONLY BE USED WHERE SPECIFIED ON THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE STRUCTURAL ENGINEER-OF-RECORD (SEOR) PRIOR TO INSTALLING POST-INSTALLED ANCHORS IN PLACE OF MISSING OR MISPLACED CAST-IN-PLACE ANCHORS. CARE SHALL BE TAKEN IN PLACING POST-INSTALLED ANCHORS TO AVOID CONFLICTS WITH EXISTING REBAR. HOLES SHALL BE DRILLED AND CLEANED AND PRODUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII). SUBSTITUTION REQUESTS FOR PRODUCTS OTHER THAN THOSE SPECIFIED BELOW, SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STRUCTURAL ENGINEER-OF-RECORD ALONG WITH CALCULATIONS THAT ARE PREPARED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE SAME STATE AS PROJECT LOCATION. THE CALCULATIONS SHALL DEMONSTRATE THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING EQUIVALENT OR BETTER PERFORMANCE VALUES OF THE SPECIFIED PRODUCT USING THE APPROPRIATE DESIGN PROCEDURE AND/OR STANDARD(S) AS REQUIRED BY THE BUILDING CODE.

PIA2 THE CONTRACTOR SHALL ARRANGE FOR AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS. ADDITIONALLY, INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL TO VERTICALLY OVERHEAD ORIENTATION SHALL BE DONE BY CERTIFIED ADHESIVE ANCHOR INSTALLER (AAI) AS CERTIFIED THROUGH ACI AND IN ACCORDANCE WITH ACI 318-19 (SECTION 17.2.3). PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED PRIOR TO COMMENCEMENT OF INSTALLATION.

PIA3 CONCRETE ANCHORS:

A. MECHANICAL ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ACI 355.2 AND ICC-ES AC193. PRE-APPROVED MECHANICAL ANCHORS INCLUDE:
1. DEWALT "POWER-STUD+ SD1" (ICC-ES ESR-2818)
2. DEWALT "POWER-STUD SD2, SD4 (30458) AND SD6 (31698)" (ICC-ES ESR-2502)
3. DEWALT "SCREW-BOLT+" (ICC-ES ESR-3889)
4. DEWALT "SNAKE+" (ICC-ES ESR-2272)
5. DEWALT "MINI-UNDERCUT+" (ICC-ES ESR-3912)
6. HILTI KWIK BOLT-TZ2 EXPANSION ANCHOR SAFE SET SYSTEM WITH AT MODULE FOR APPLICABLE SIZES (ICC-ES ESR-4266)
7. HILTI KWIK BOLT I EXPANSION ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM AND AT MODULE FOR APPLICABLE SIZES PER IAPMO UES ER-618
8. HILTI KWIK HUS-EZ (KH-EZ), KH-EZ CRC, KH-EZ 5B3I6, KH-EZ C, KH-EZ E, KH-EZ I, AND KH-EZ P SCREW ANCHOR SAFE SET SYSTEM WITH HOLLOW DRILL BIT AND VACUUM PER ICC-ES ESR-3027
9. SIMPSON STRONG-TIE "STRONG-BOLT 2" (ICC-ES ESR-3037)
10. SIMPSON STRONG-TIE "TITEN-HD" (ICC-ES ESR-2713)
11. SIMPSON STRONG-TIE "STAINLESS STEEL TITEN HD" (IAPMO UES ER-493)
12. FISCHER "FBS IN" SCREW ANCHOR (ICC-ES ESR-5456)

B. ADHESIVE ANCHORS FOR USE IN CRACKED AND UNCRACKED CONCRETE SHALL BE INSPECTED AS FOLLOWS: AT THE ONSET OF EACH APPLICATION, A MANUFACTURER'S REPRESENTATIVE MUST BE PRESENT TO WITNESS AT LEAST FIVE COMPLETE INSTALLATIONS. INSTALLERS MUST BE TRAINED BY THE MANUFACTURER AND MANUFACTURER SHALL SUBMIT DOCUMENTATION TO THE CONTRACTOR INDICATING TRAINING HAS TAKEN PLACE. TRAINED INSTALLERS SHALL PROVIDE WRITTEN DOCUMENTATION TO THE CONTRACTOR THAT ALL ANCHORS HAVE BEEN INSTALLED PER THE MPII. CONTRACTOR SHALL SUBMIT THIS DOCUMENTATION TO THE SEOR. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING MINIMUM AGE OF 21 DAYS. HOLES SHALL BE DRY AT THE TIME OF INSTALLATION. ADHESIVES SHALL HAVE MAX IN-SERVICE SHORT-TERM TEMPERATURE OF 150°F, AND MAX. IN-SERVICE LONG-TERM TEMPERATURE OF 110°F. PRIOR TO INSTALLATION OF ADHESIVE ANCHORS IN HORIZONTAL OR UPWARDLY INCLINED ORIENTATIONS RESISTING SUSTAINED TENSION LOADS, INSTALLERS ARE REQUIRED TO BE CERTIFIED IN ACCORDANCE WITH THE ACI / CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM AND MUST BE CONTINUOUSLY INSPECTED. ANCHORS SHALL ALSO HAVE BEEN TESTED AND QUALIFIED FOR USE IN ACCORDANCE WITH ICC-ES AC308. PRE-APPROVED ADHESIVE ANCHORS INCLUDE THE FOLLOWING PRODUCTS:
1. DEWALT
   a. "PURE 220+" WITH DUSTX+ HOLLOW DRILL BIT SYSTEM OR USING TRADITIONAL BLOW OUT METHOD PER ICC-ES ESR-5144.
   b. AC200+ WITH DUSTX+ HOLLOW DRILL BIT SYSTEM OR USING TRADITIONAL BLOW OUT METHOD PER ICC-ES ESR-4027.
2. DEWALT AC200+ GOLD (ICC-ES ESR-4027)
3. HILTI
   a. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD PER ICC ESR-4868.
   b. HILTI HIT-HY 200 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VACUUM WITH HAS-E THREADED ROD PER ICC ESR-4868.
   c. HILTI HY 200 V3 ADHESIVE ANCHOR USING TRADITIONAL CLEANING METHOD, 2 BLOWS OF COMPRESSED AIR (90 PSI MINIMUM, OIL FREE COMPRESSOR), 2 BRUSHES WITH SAME SIZE AS HOLE WIRE BRUSH, AND 2 MORE BLOWS, (2X2X2 CLEANING METHOD) PER ICC ESR-4868.
   d. HILTI HIT-RE 500-V3 EPOXY ADHESIVE ANCHORING SYSTEM WITH HAS-E THREADED ROD PER ICC ESR-3814 FOR SLOW CURE APPLICATIONS.
   e. HILTI KWIK-X DUAL ACTION ANCHOR SAFESET SYSTEM WITH KHC CAPSULE ADHESIVE AND KWIK-HUS EZ PER ICC ESR-5065
4. SIMPSON STRONG-TIE "SET-3G" WITH RFB THREADED ROD FOR SLOW CURE APPLICATIONS (ICC-ES ESR-4057)
5. SIMPSON STRONG-TIE "ET-3G" WITH RFB THREADED ROD FOR SLOW CURE APPLICATIONS (ICC-ES ESR-5334)
6. SIMPSON STRONG-TIE "AT-3G" WITH RFB THREADED ROD FOR FAST CURE APPLICATIONS (ICC-ES ESR-5026)
7. FISCHER
   FISCHER ANCHORING SYSTEM FOR STEEL THREADED RODS (ASTM F568M 5.8, F1554 GR36/GR55/GR105, A193 B7, F593 (A316)) AND REBAR (A615 GR60, A706 GR60).
   a. FIS EM PLUS ADHESIVE EPOXY (ICC-ES ESR-1980), HIGH STRUCTURAL DEMAND, SLOW CURE.
   b. FIS SB ADHESIVE MORTAR (ICC-ES ESR-3572), MEDIUM STRUCTURAL DEMAND, FAST CURE.

DEMOLITION

DE1 THE CONTRACTOR SHALL TEMPORARILY BRACE AND/OR SHORE EXISTING AND NEW CONSTRUCTION AS REQUIRED TO ENSURE THE STRUCTURAL STABILITY IS NOT COMPROMISED. BRACING AND/OR SHORING SHALL REMAIN IN PLACE UNTIL THE STRUCTURAL WORK IS COMPLETE AND HAS BEEN INSPECTED BY A TESTING AGENCY AND IS CERTIFIED TO BE IN SUBSTANTIAL COMPLIANCE W/ PLANS AND SPECIFICATIONS.

DE2 ALL SHORING SHALL REMAIN IN PLACE UNTIL REINFORCING AND STRUCTURAL ELEMENTS ARE IN PLACE AND IN CONFORMANCE WITH PLANS AND SPECIFICATIONS.

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REVISIONS

NO.	DATE	DESCRIPTION	DOCUMENT HISTORY

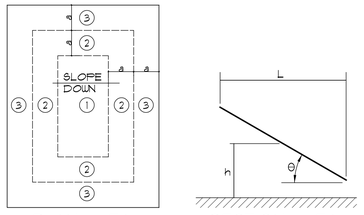
SUGAR MILL ELEMENTARY SCHOOL
REPLACE BLDG. 11 CANOPY
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ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

SHEET TITLE:
STRUCTURAL GENERAL NOTES

SHEET #
S001



NOTES:

1. A (Kzt) OF 0.85 HAS BEEN USED IN THE DEVELOPMENT OF THESE VALUES. THE USE OF THESE VALUES SHALL ONLY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTIONS 2.3 & 2.4 OF ASCE 7-22.
2. PRESSURES AND SUCTIONS ON SOFFITS SHALL BE THE SAME AS CORRESPONDING WALL ZONES 4 & 5.
3. IF THE STRUCTURE IS INSURED BY FACTORY MUTUAL (FM) THE GROSS UPLIFT DESIGN PRESSURES SHOWN HEREIN SHALL BE DOUBLED FOR ROOF COVERINGS.
4. THE "ULTIMATE" WIND LOADS SHOWN IN THE COMPONENTS AND CLADDING SCHEDULE SHALL BE MULTIPLIED BY 0.6 TO REDUCE THEM DOWN TO "SERVICE" LEVEL FOR ALL TESTED ASSEMBLIES, INCLUDING BUT NOT LIMITED TO DOORS, WINDOWS AND ROOF ASSEMBLIES.
5. FOR ATTACHED CANOPIES ON BUILDING, REFERENCE ASCE 7-22 SECTION 30.3 FOR PRESSURE COEFFICIENTS.

WIND DESIGN CRITERIA

Ultimate Design Wind Speed	155 mph
Service Design Wind Speed	120.1 mph
Risk Category	III
Exposure Category	C
Enclosure Classification	Open Building

COMPONENT AND CLADDING ULTIMATE WIND PRESSURES

h = 8.0 ft. a = 3.0 ft.

a² = 9.0 sf 4a² = 36.0 sf

	Effective Wind Area	Clear Wind Flow (psf)					
		Zone 3		Zone 2		Zone 1	
		Positive	Negative	Positive	Negative	Positive	Negative
Wind Pressures	<= 9 psf	90.8	-124.8	68.1	-64.3	45.4	-41.6
	> 9 psf, <= 36 psf	68.1	-64.3	68.1	-64.3	45.4	-41.6
	> 36 psf	45.4	-41.6	45.4	-41.6	45.4	-41.6

TORNADO DESIGN CRITERIA

Tornado Wind Speed	120 mph
Effecting Area	50,000 sf
Internal Pressure Coef.	0.55 -0.18

TORNADO DESIGN MUST BE CONSIDERED

WIND CALCS

MOMENT CONNECTION

ELEVATION SYMBOL

GRID ID

REVISION MARK

TYPICAL PLAN KEYNOTE SYMBOL

CHANGE IN SLAB ELEVATION

SECTION CUTS

NUMBER FOR SECTION LETTER FOR DETAIL

SHEET ON WHICH SECTION OR DETAIL OCCURS

SECTION & DETAIL ID

NUMBER FOR SECTION LETTER FOR DETAIL

TITLE

SCALE

SHEET NUMBER

TYPICAL LINETYPES

GRID LINE

EXISTING

MATCH LINE

HIDDEN

DASHED

CONTINUOUS

MATERIALS

GROUT

STEEL

PRECAST CONCRETE

CONCRETE

EARTH

SECTION HATCHES

8" LOAD-BRG CMU WALLS

NON-LOAD-BRG CMU WALLS

PLAN HATCHES

SYMBOL LEGEND

ABBREVIATIONS

AAC	AUTOCLAVED AERATED CONCRETE
AB	ANCHOR BOLT
ABV	ABOVE
A.C.I.	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
A.I.S.C.	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
A.I.S.I.	AMERICAN IRON AND STEEL INSTITUTE
AL	ALUMINUM
ALT	ALTERNATE
AR	ANCHOR ROD
ARCH	ARCHITECT(URAL)
ASD	ALLOWABLE STRESS DESIGN
ASTM	AMERICAN SOCIETY OF TESTING MATERIALS
A.W.S.	AMERICAN WELDING SOCIETY
B/	BOTTOM OF
BB	BOND BEAM
BLDG	BUILDING
BLKG	BLOCKING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BP	BASE PLATE
BRDG	BRIDGING
BRG	BEARING
BRK	BRICK
BS	BOTH SIDES
BTJ	BOLTED TIE JOIST
BTWN	BETWEEN
C/C	CENTER TO CENTER
CANT	CANTILEVER
CB	CONCRETE BEAM
CC	CONCRETE COLUMN
CFMF	COLD FORMED METAL FRAMING
CFS	COLD-FORMED STEEL
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT (OR CONTROL JOINT)
℄, CL	CENTERLINE
CLR	CLEAR(ANCE)
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
COORD	COORDINATE
CSK	COUNTER SINK
CTR	CENTER
CTRD	CENTERED
CY	CUBIC YARD
DBA	DEFORMED BAR ANCHOR
DIA	DIAMETER
DIAG	DIAGONAL
DL	DEAD LOAD
DN	DOWN
DTL	DETAIL
DWG	DRAWING
DWL	DOWEL
EA	EACH
EE	EACH END
EF	EACH FACE
EJ	EXPANSION JOINT
ENG	ENGINEER
EOS	EDGE OF SLAB
EL	ELEVATION
EQ	EQUAL
EQ SP	EQUAL SPACE(S) (ING)
ES	EACH SIDE
EW	EACH WAY
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F/	FACE OF
FBC	FLORIDA BUILDING CODE
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FIN	FINISH
FLR	FLOOR
FLG	FLANGE
FMG	FRAMING
FS	FAR SIDE
FT	FOOT
FTG	FOOTING
ga	GAUGE
GALV	GALVANIZE(D)
GB	GRADE BEAM
GC	GENERAL CONTRACTOR
GFC	GROUT FILLED CELL(S) / COURSE
GLB	GLU-LAM BEAM
GR	GRADE
GT	GIRDER TRUSS
HC	HOLLOW-CORE
HDG	HOT DIPPED GALVANIZED
HK	HOOK
HORIZ	HORIZONTAL
HP	HIGH POINT
HS	HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION
ID	INSIDE DIAMETER
IF	INSIDE FACE
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIP
KO	KNOCK-OUT
lb, #	POUND(S)
LG	LONG
LL	LIVE LOAD
LLBB	LONG LEG BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LNTL	LINTEL
LSL	LONG SLOTTED
LOC	LOCATION
LONG	LONGITUDINAL
LP	LOW POINT
LRFD	LOAD & RESISTANCE FACTOR DESIGN
LW	LONG WAY
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBM	METAL BUILDING MFR
MC	MASONRY COLUMN
MCJ	MASONRY CONTROL JT
MCN	MOMENT CONNECTION
ME	MONOLITHIC EDGE
MECH	MECHANICAL
MEZZ	MEZZANINE
MF	MONOLITHIC FOOTING
MFR	MANUFACTURE(ER)
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MS	METAL STUD
MTL	METAL
MWF	MONOLITHIC WALL FOOTING
NIC	NOT IN CONTRACT
NS	NEAR SIDE
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OH	OPPOSITE HAND
OHD	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
PAF	POWDER-ACTUATED FASTENER(S)
PB	PRE-CAST BEAM
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PC	PRECAST
PL, PL	PLATE
PLS	PLACES
PLF	POUNDS PER LINEAR FOOT
PLYWD	PLYWOOD
PNL	PANEL
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTN	PARTITION
R	RADIUS
RC	REINFORCED CONCRETE
REF	REFERENCE
REINF	REINFORCE(D)(ING)
REQ	REQUIRE
REQ'D	REQUIRED
RF	ROOF
RM	ROOM
RO	ROUGH OPENING
RP	RADIUS POINT
RTN	RETURN
RW	REINFORCED WITH
SCH	SCHEDULE
SDI	STEEL DECK INSTITUTE
SECT	SECTION
SF	STEPPED FOOTING
SHT	SHEET
SHW	SHEAR WALL
SIM	SIMILAR
SJ	SAWCUT JOINT
SJI	STEEL JOIST INSTITUTE
SL	SLOPE
SLBB	SHORT LEG BACK-TO-BACK
SOG	SLAB ON GRADE
SP	SPACE(S)
SPECS	SPECIFICATIONS
SQ	SQUARE
SS	STAINLESS STEEL
SSL	SHORT SLOTTED
STD	STANDARD
STIFFR	STIFFENER
STL	STEEL
STR	STRENGTH
STRL	STRUCTURAL
SW	SHORT WAY
SYMM	SYMMETRICAL
SYP	SOUTHERN YELLOW PINE
T&B	TOP AND BOTTOM
TB	TIE BEAM
TC	TIE COLUMN
TEMP	TEMPERATURE
THK	THICK
TOPG	TOPPING
TRANS	TRANSVERSE
TYP	TYPICAL
T/	TOP OF
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
VERT	VERTICAL
WD	WOOD
WF	WALL FOOTING
WO	WINDOW OPENING (MASONRY)
WP	WORKING POINT
WS	WATERSTOP
WWF	WELDED WIRE FABRIC
W/	WITH

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REVISIONS

NO.	DATE	DESCRIPTION
		DOCUMENT HISTORY

SUGAR MILL ELEMENTARY SCHOOL
REPLACE BLDG. 11 CANOPY
VCS Project No.: 2648294
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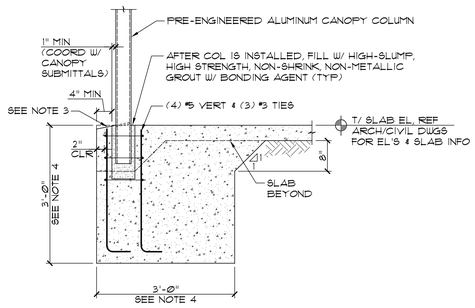
ARCHENGR OF RECORD
Engineer
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DESIGNED BY	DRAWN BY
LB	JP
ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

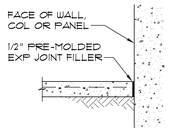
SHEET TITLE:
WIND CALCS, ABBREVIATIONS & SYMBOL LEGEND

SHEET #:
S002

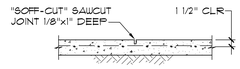
NOTES:
1. SEE ARCH & CIVIL DWGS FOR LOCATIONS OF PRE-ENG WALKWAYS.
2. A DIP-COAT OF CLEAR ACRYLIC ENAMEL SHALL INSULATE COLUMN ENDS FROM ELECTROLYTIC REACTION WITH GROUT.
3. CREATE SLOPE TO ALLOW RAINWATER TO FLOW FREELY OVER EDGE OF SLAB WHERE COL SERVES AS A DOWNSPOUT.
4. FOUNDATION SIZE SHOWN ARE FOR PRICING PURPOSES ONLY. FOUNDATIONS SHALL BE DESIGNED PER SEI/SØØI.



1 S201 SECTION @ PRE-ENG WALKWAY CANOPY
SCALE: 3/4"=1'-Ø"



EXPANSION JOINT (EJ)



NOTES:
1. SLAB SHALL BE CUT AS SOON AS AGGREGATE DOES NOT DISLODGE AND BEFORE CONCRETE STARTS TO COOL. WAITING PERIOD WILL TYPICALLY VARY FROM 1 HOUR IN HOT WEATHER TO 4 HOURS IN COLD WEATHER, BUT IN NO CASE SHALL THE TIME BETWEEN FINISHING & SAWCUTTING EXCEED 8 HOURS. THE DEPTH OF THE SAWCUT SPECIFIED IN THE DETAIL SHALL BE HELD CONSTANT THROUGH-OUT THE CUTTING PROCESS. DO NOT CUT TOO DEEP OR TOO SHALLOW. ONLY PLACE AN AMOUNT OF SLAB THAT CAN BE FINISHED AND SAWCUT THE SAME DAY.
2. PLACE REINFORCING 1 1/2" CLEAR FROM TOP OF SLAB.
3. HAND-TOOL JOINT TO FACE OF WALL WHERE SAW BLADE CANNOT REACH.

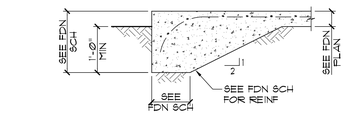
SAWCUT JOINT (SJ)



TOOLED JOINT (TJ)
(NOTE: AT EXTERIOR LOCATIONS ONLY)

NOTE:
1. WHEN FIBER REINFORCEMENT IS USED IN SLAB, PROVIDE #3x2'-Ø" @ 24" OC CENTERED ACROSS JOINT @ MID-DEPTH THROUGH KEY.

CONSTRUCTION JOINT (CJ), KEYED



NOTE:
1. SIZE AND REINF VARIES. SEE FOUNDATION SCHEDULE.

MONOLITHIC EDGE (ME)

A S201 SLAB-ON-GRADE DETAILS (FOOT TRAFFIC)
SCALE: NONE

FOUNDATION PLAN NOTES:

1. FLOOR SLAB SHALL BE 4" THICK CONCRETE REINF WITH 6x6-W2.1xW2.1 WWF ON COMPACTED AND TERMITE TREATED SUBGRADE. SEE "SLAB-ON-GRADE DETAILS" ON THIS SHEET FOR PLACEMENT OF REINF.

1a. FIBER-REINFORCED CONCRETE IS AN ACCEPTABLE ALTERNATIVE TO WELDED-WIRE FABRIC. REINFORCED CONCRETE FIBERS SHALL BE 100% VIRGIN POLYPROPYLENE FIBRILLATED FIBERS AS MANUFACTURED BY FIBER MESH CO. (OR APPROVED EQUAL) APPLIED AT A RATE OF 1 1/2 lbs/CY.

2. T/ SLAB EL = 100'-Ø" (TYP, UNO). REFERENCE ONLY - SEE CIVIL DWGS FOR ACTUAL ELEVATION.

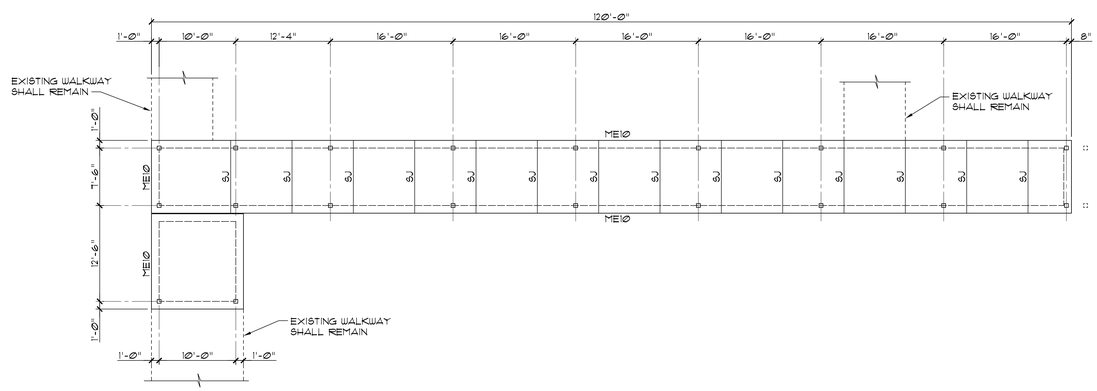
3. SEE SHEET S001 FOR STRUCTURAL GENERAL NOTES.

4. MAINTAIN STRUCTURAL SLAB THICKNESS AT ALL FLOOR SLOPES AND DEPRESSIONS.

5. THE CONTRACTOR SHALL COORDINATE ALL UNDERGROUND UTILITIES, PIPES, ETC., WITH THE FOUNDATION PLAN AND FOUNDATION ELEVATIONS. FOOTING PENETRATION DETAILS MAY BE FOUND IN THE CONCRETE AND REINFORCING SECTION OF THE STRUCTURAL GENERAL NOTES.

FOUNDATION LEGEND:

ME - INDICATES MONOLITHIC EDGE. SEE FOUNDATION SCHEDULE ON THIS SHEET FOR INFO.



FOUNDATION SCHEDULE			
MARK	SIZE (L x W x D)	REINFORCING	REMARKS
ME1Ø	CONT x 1'-Ø" x 1'-4"	(1) #5 CONT, BOT	MONOLITHIC EDGE

B S201 FOUNDATION SCHEDULE

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LB	JP
ISSUE DATE: 08-28-2026	A/E PROJECT NUMBER: S+A #26013

SHEET TITLE:
CANOPY FOUNDATION PLAN & DETAILS

SHEET #:
S201

File=F:\2026\26074\26074_TECH\26074_SDWGS\26074_Sdwgs\26074_S201.dwg Tab=Layout Date/Time= Sep 01, 2026 - 11:56am Plot by jpatford

GENERAL NOTES:

1. PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT AND SERVICES FOR ELECTRICAL WORK INDICATED ON DRAWINGS.
2. PROVIDE ALL ADDITIONAL AUXILIARY EQUIPMENT SUCH AS CONDUIT SUPPORT DEVICES, BOXES, CLAMPS, ETC., NOT SPECIFICALLY SHOWN ON THESE DRAWINGS, BUT NECESSARY FOR A COMPLETE INSTALLATION.
3. ALL PENETRATIONS IN RATED WALLS SHALL BE SEALED WITH UL LISTED FIRE-STOP SEALANT IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND UL ASSEMBLY LISTING. ALL OTHER CONDUIT RUNS FROM EXTERIOR SHALL BE SEALED WITH UL LISTED VAPOR STOP PUTTY.
4. COORDINATE WITH ALL OTHER TRADES PRIOR TO START OF WORK.
5. NEW MATERIALS INSTALLED SHALL CONFORM TO NEMA STANDARDS AND SHALL BEAR THE UL LABEL FOR APPLICATION USED.
6. WHERE NEW CONDUCTORS AND/OR CONDUIT SYSTEM ARE INSTALLED, LENGTH AND ROUTING OF CONDUCTORS AND/OR CONDUIT SYSTEMS SHALL BE DETERMINED IN THE FIELD BY THE ELECTRICAL CONTRACTOR.
7. ALL EMPTY CONDUITS SHALL CONTAIN PULL STRING (200LB TEST). ENDS SHALL BE CAPPED WITHOUT GLUE, TO PREVENT INTRUSION OF FOREIGN MATERIALS.
8. PROVIDE GROUND AND CONTINUITY TESTING ON ALL ELECTRICAL CIRCUIT WIRING PRIOR TO RECONNECTION/REINSTALLATION.
9. ALL WIRING INSTALLED SHALL BE THHN/THWN COPPER UNO.
10. PROVIDE PROTECTIVE COVERING OVER PANELS AND EQUIPMENT DURING CONSTRUCTION.
11. EACH BRANCH CIRCUIT SHALL UTILIZE A SEPARATE NEUTRAL CONDUCTOR. MULTI-WIRE BRANCH CIRCUITS WITH COMMON NEUTRAL WIRES SHALL NOT BE USED.
12. ALL EXPOSED CONDUITS SUBJECT TO PHYSICAL DAMAGE SHALL BE RIGID GALVANIZED STEEL TYPE.
13. EQUIPMENT SHALL BE OF MATERIALS SUITABLE FOR AND NEMA RATED FOR THE ENVIRONMENT IN WHICH THEY ARE TO BE INSTALLED.
14. WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT SHALL BE IN COMPLIANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 110.

    THE EXCLUSIVELY DEDICATED SPACE EXTENDING FROM FLOOR TO STRUCTURAL CEILING WITH A WIDTH AND DEPTH OF THE PANEL BOARD, SWITCHBOARD, MOTOR STARTER, DISCONNECT SWITCH OR TRANSFORMER MUST BE CLEAR OF ALL PIPING, DUCTS, EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE ARTICLE 110.26(E)(1).

    COORDINATE ALL FLUSH MOUNTED PANELS WITH HVAC DUCTS AND PIPING TO MAINTAIN EXCLUSIVELY DEDICATED SPACE PER NOTE ABOVE.
15. LOCATIONS OF EQUIPMENT SHOWN ON THE DRAWINGS WHICH REQUIRE ELECTRICAL CONNECTIONS AND ARE NOT PROVIDED UNDER DIVISION 26 ARE SHOWN APPROXIMATE. COORDINATE EXACT LOCATIONS OF EQUIPMENT AND ELECTRICAL CONNECTIONS WITH APPROPRIATE TRADE PRIOR TO ROUGHING IN AND ROUTING CONDUIT.
16. LIGHT SWITCHES SHALL BE MOUNTED 46" A.F.F. TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.
17. RECEPTACLES SHALL BE MOUNTED 18" A.F.F. TO CENTERLINE OF DEVICE UNLESS OTHERWISE NOTED.

APPLICABLE CODES:

1. FLORIDA BUILDING CODE 2023 8TH EDITION.
2. FLORIDA BUILDING CODE 2023 - ENERGY CONSERVATION 8TH EDITION.
3. FLORIDA FIRE PREVENTION CODE 2023 8TH EDITION.
4. NFPA 37 STANDARD FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES - 2021 EDITION.
5. NFPA 70 NATIONAL ELECTRICAL CODE - 2020 EDITION.
6. NFPA 72 NATIONAL FIRE ALARM & SIGNALING CODE - 2019 EDITION.
7. NFPA 101 LIFE SAFETY CODE - 2021 EDITION.
8. NFPA 110 STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS - 2019 EDITION.
9. NFPA 780 STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS - 2020 EDITION.
10. NFPA 1221 STANDARD FOR THE INSTALLATION OF EMERGENCY SERVICES COMUUNICATION SYSTEMS - 2019 EDITION.

ELECTRICAL SYMBOL LEGEND

NOTE: THESE ARE STANDARD SYMBOLS AND ALL MAY NOT APPEAR ON THE PROJECT DRAWINGS.

LIGHTING

- LED FIXTURE - CEILING MOUNTED
- LED FIXTURE - CEILING MOUNTED, EMERGENCY POWER
- LED STRIP FIXTURE
- LED STRIP FIXTURE - EMERGENCY POWER
- LED FIXTURE - RECESSED
- LED WALL WASH FIXTURE - RECESSED
- LED FIXTURE - RECESSED, EMERGENCY POWER
- LED FIXTURE - SURFACE MOUNTED
- LED FIXTURE - SURFACE, EMERGENCY
- LED FIXTURE - WALL MOUNTED
- LED FIXTURE - WALL MOUNTED, EMERGENCY POWER
- LED FIXTURE - PENDANT MOUNTED
- LINEAR VANITY FIXTURE
- TRACK LIGHTING
- UNIVERSAL MOUNTING EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- WALL MOUNTED EXIT LIGHTS, SINGLE FACED
- END MOUNTED EXIT LIGHTS, SINGLE AND DOUBLE FACED, ARROWS AS SHOWN ON FLOOR PLANS
- EMERGENCY BATTERY PACK, HEADS AS INDICATED
- REMOTE EMERGENCY LIGHT

SWITCHES

- $S_{a,b}$ LOWER CASE SUBSCRIPTS INDICATES LIGHTING FIXTURE CONTROLLED
- S SINGLE POLE SWITCH (UNLESS NOTED BY SUBSCRIPT)
  - (2) DOUBLE POLE
  - (3) WAY
  - (4) WAY
  - (D) DIMMER SWITCH (1500W UNLESS NOTED -LUTRON DIVA)
  - (E) EMERGENCY SWITCH
  - (K) KEY OPERATED
  - (P) PILOT LIGHT INDICATION
  - (W) SINGLE PHASE MOTOR STARTING SWITCH
  - (EP) EXPLOSION PROOF
  - (OS) OCCUPANCY SENSOR (ALL WALL MOUNTED SHALL BE VANDAL RATED)
  - (WP) WEATHER PROOF
  - (OR) OCCUPANCY SENSOR OVERRIDE
  - (DR) DAYLIGHT SENSOR OVERRIDE
  - (CS) CONTROL STATION
  - (WS) WALL STATION DAYLIGHT & DIMMING OVERRIDE, COLOR CONTROL
  - (TS) 2-HOUR TIME SWITCH
- OCCUPANCY SENSOR, CEILING MOUNTED
- VACANCY SENSOR, CEILING MOUNTED
- DAY LIGHT/OCCUPANCY SENSOR, CEILING MOUNTED
- HALLWAY OCCUPANCY SENSOR, CEILING MOUNTED

  PROVIDE POWER PACKS AS NEEDED FOR LOW VOLTAGE LIGHTING CONTROLS.
- UL 924 EMERGENCY RELAY (WHERE SHOWN THERE SHALL BE A PHENOLIC LABEL PROVIDED/AFFIXED TO THE NEAREST CEILING TEE)

CONDUIT AND WIRE

- CONDUIT CONCEALED IN WALLS OR ABOVE CEILINGS
- CONDUIT CONCEALED UNDERGROUND OR IN SLAB
- CONDUIT HOMERUN - (ELECTRICAL CONTRACTOR TO CONSIDER VOLTAGE DROPS PER CIRCUIT LENGTH)
- PP-1 CIRCUIT DESIGNATION SHALL BE REPRESENTED BY PANEL NAME AND CIRCUIT NUMBER. MULTIPLE POLE CIRCUITS WILL BE REPRESENTED BY CIRCUIT NUMBERS SEPARATED BY A COLON.

RECEPTACLES

- DUPLEX RECEPTACLE
  - (G) DUPLEX GFCI RECEPTACLE
  - (TR) TAMPER RESISTANT
  - (IG) DUPLEX ISOLATED GROUND RECEPTACLE.
  - (WPG) WEATHER RESISTANT DUPLEX GFCI RECEPTACLE, WEATHERPROOF COVER
  - (EWC) ELECTRIC WATER COOLER, COORDINATE LOCATION WITH PLUMBING INSTALLER. LOCATE GFCI RECEPTACLE CENTERED UP UNDER COOLER.
- DUPLEX RECEPTACLE - CLEAN POWER
- QUADRAPLEX RECEPTACLE - CLEAN POWER
- DUPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- QUADRAPLEX RECEPTACLE IN TWO GANG BOX COVER.
- DUPLEX RECEPTACLE IN FLOOR BOX.
- QUADRAPLEX RECEPTACLE, MOUNT 4" ABOVE COUNTER OR BACKSPLASH. MAXIMUM 48" TO CENTER.
- DUPLEX RECEPTACLE TOP HALF SWITCHED
- DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING
- DUPLEX RECEPTACLE FLUSH MOUNTED IN CEILING HALF SWITCHED
- 5-20R SPECIAL OUTLET, SUBSCRIPT INDICATES NEMA CONFIGURATION NUMBER
- C INTEGRAL ELECTRICAL CONNECTION POINT

FIRE ALARM

- DUCT SMOKE DETECTOR - SUPPLY SIDE
- DUCT SMOKE DETECTOR - RETURN AIR SIDE
- AHU SHUT DOWN RELAY

POWER CONNECTIONS

- JUNCTION BOX SIZED PER N.E.C. UNLESS NOTED
  - (ZD) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
  - (VAV) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
  - (VVT) ELECTRICAL CONNECTION FOR HVAC EQUIPMENT MOUNTED ABOVE CEILING
- J JUNCTION BOX
- FJ FLOOR JUNCTION BOX
- POWER POLE, SEE DETAIL FOR REQUIREMENTS.
- PB WALL MOUNTED PUSH BUTTON STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS.
- SR WALL MOUNTED SHUNT TRIP STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS.
- TC TIME CLOCK
- EPO WALL MOUNTED EMERGENCY POWER OFF STATION MOUNT AT 7'-0" AFG FOR OUTDOOR INSTALLATIONS AND 4'-0" AFF FOR INDOOR INSTALLATIONS.
- PE PHOTO-ELECTRIC CELL
- EWH ELECTRIC WATER HEATER
- INH INSTANTANEOUS WATER HEATER
- EF M MOTOR CONNECTION, MARK NUMBER WILL IDENTIFY EQUIPMENT, EF, AHU, CU, ETC. SEE MOTOR CONNECTION SCHEDULE.
- 30/3 NON FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
- 30/3 25 3R FUSIBLE HEAVY DUTY SAFETY SWITCH, SIZE AND NUMBER OF POLES ARE INDICATED.
  - ENCLOSURE NEMA RATING
  - DISCONNECT SIZE: #POLES
  - FUSE SIZE
- COMBINATION MAGNETIC STARTER WITH FUSIBLE HEAVY DUTY SAFETY SWITCH.
  - (VFD) PROVIDE WITH VARIABLE FREQUENCY DRIVE CONTROLLER COMPATIBLE WITH VARIABLE FREQUENCY DRIVE.
- ATS AUTOMATIC TRANSFER SWITCH - SEE RISER DIAGRAM
- GAP GENERATOR ANNUNCIATOR PANEL
- PANELBOARD, LOW VOLTAGE (120/208V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- PANELBOARD, HIGH VOLTAGE (277/480V) - SEE PANELBOARD SCHEDULES AND RISER DIAGRAM
- DISTRIBUTION PANEL, SEE RISER DIAGRAM
- M ENERGY MANAGEMENT SUB METERING
- POWER COMPANY METERING.
- T DRY-TYPE TRANSFORMER, SEE RISER. FOR CHARACTERISTICS.
- SPD SURGE PROTECTION DEVICE.
- ENCLOSED CIRCUIT BREAKER.
- C INTEGRAL ELECTRICAL CONNECTION POINT

ABBREVIATIONS:

A	AMPERES	△	DELTA	NEC	NATIONAL ELECTRICAL CODE	TEL	TELEPHONE
AC	ABOVE COUNTER	DWG	DRAWING	NC	NORMALLY CLOSED		
AFF	ABOVE FINISHED FLOOR			NL	NIGHT LIGHT CIRCUIT	UG	UNDERGROUND
AFG	ABOVE FINISHED GRADE	FT	FEET	NO	NORMALLY OPEN	UNIV	UNIVERSAL
AL	ALUMINUM			NTS	NOT TO SCALE	UNO	UNLESS NOTED OTHERWISE
ANNUN	ANNUNCIATOR	G	GROUND	NIC	NOT IN CONTRACT		
ARCH	ARCHITECT	GEN	GENERATOR			V	VOLTS
ATS	AUTOMATIC TRANSFER SWITCH	GAP	GENERATOR ANNUNCIATOR PANEL	#	PHASE		
AWG	AMERICAN WIRE GAUGE	GFI	GROUND FAULT INTERRUPT	POS	POINT OF SALE	W	WATTS
				PVC	POLYVINYL CHLORIDE	WP	WEATHERPROOF
BFG	BELOW FINISHED GRADE	IG	ISOLATED GROUND	P/T	POTENCIAL TRANSFORMER	WPG	WEATHERPROOF WITH GROUND FAULT INTERRUPT
BLDG	BUILDING						
		KVA	KILOVOLT - AMPERES	R	RECESSED	XFMER	TRANSFORMER
C	CONDUIT	KW	KILOWATTS				
CAT	CATALOG			SCR	SHORT CIRCUIT RATING	Y	WYE
CKT	CIRCUIT	MCB	MAIN CIRCUIT BREAKER	SURF	SURFACE		
CU	COPPER	MCC	MOTOR CONTROL CENTER	SPD	SURGE PROTECTION DEVICE		
C/B	CIRCUIT BREAKER	MCM	THOUSAND CIRCULAR MILS				
C/T	CURRENT TRANSFORMERS	MISC	MISCELLANEOUS				
		MLO	MAIN LUGS ONLY				

VOLTAGE DROP NOTE:

THIS PROJECT IS DESIGNED FOR A MAXIMUM TOTAL VOLTAGE DROP OF 5% AS PER 2023 FBC ENERGY CONSERVATION C405.5.3: THE FEEDERS HAVE BEEN SIZED FOR A MAXIMUM VOLTAGE DROP OF 2% AT DESIGN LOAD AND BRANCH CIRCUIT CONDUCTORS HAVE BEEN SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% AT DESIGN LOAD.

COMPLETION REQUIREMENTS:

RECORD DRAWINGS:
PER C405.5.4.1 - CONTRACTOR SHALL PROVIDE WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION TO THE BUILDING OWNER INCLUDING:
1. A SINGLE LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

MANUALS:
PER C405.5.4.2, OPERATION MANUALS & MAINTENANCE MANUALS SHALL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE AT A MINIMUM THE FOLLOWING:
1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

LEGEND & GENERAL NOTES

01 | NO SCALE

N

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REVISIONS

NO.	DATE	DESCRIPTION	DOCUMENT HISTORY

SUGAR MILL ELEMENTARY SCHOOL
REPLACE BLDG.11 CANOPY
VCS Project No.: 2648294
1101 CHARLES ST, PORT ORANGE, FL 32129

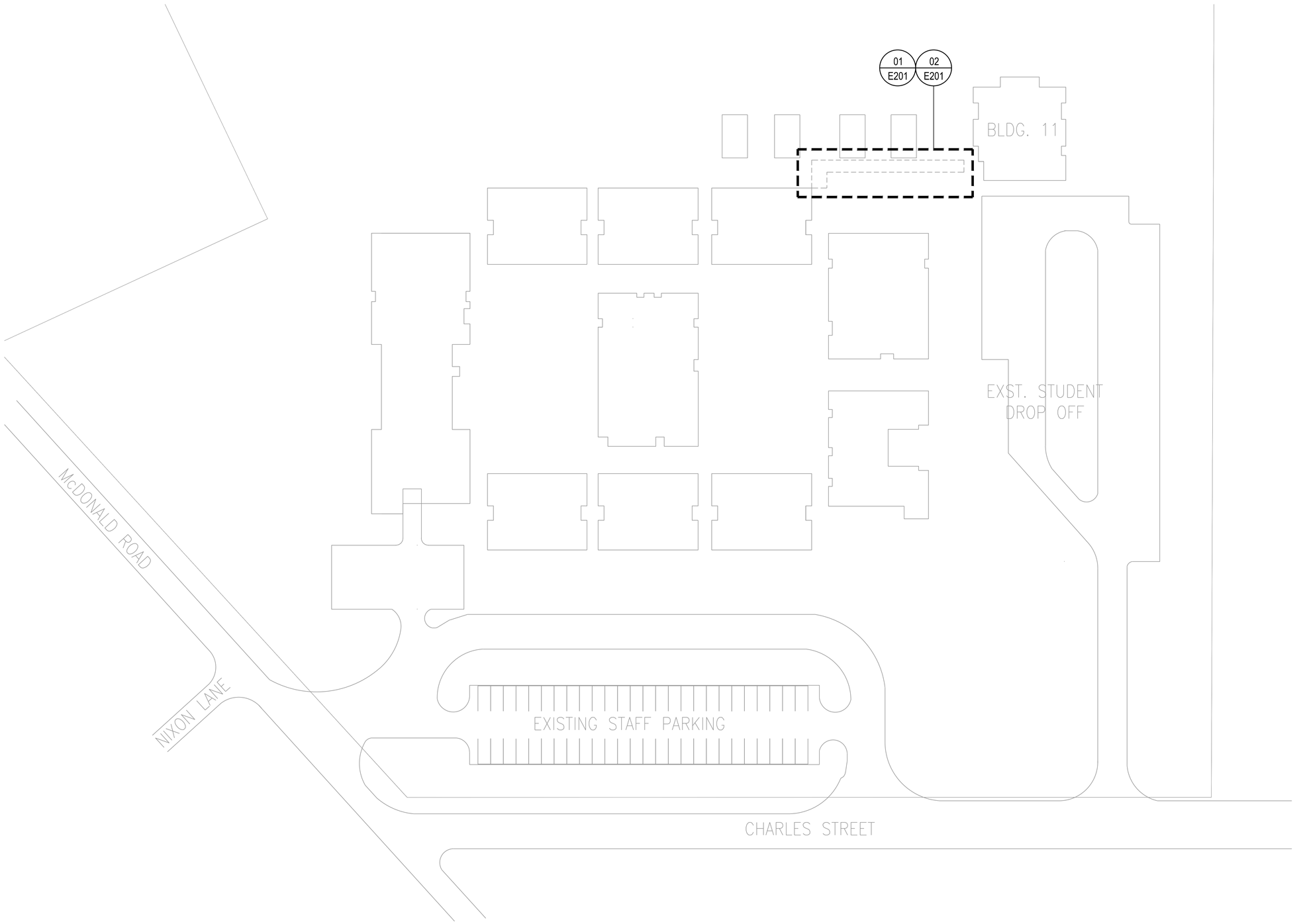
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DESIGNED BY	DRAWN BY
ADM	ADM

ISSUE DATE:	A/E PROJECT NUMBER:
08-28-2026	S+A #26013

SHEET TITLE:
LEGEND & GENERAL NOTES - ELECTRICAL

SHEET #
E001



OVERALL SITE PLAN

01
1" = 40'-0"

N

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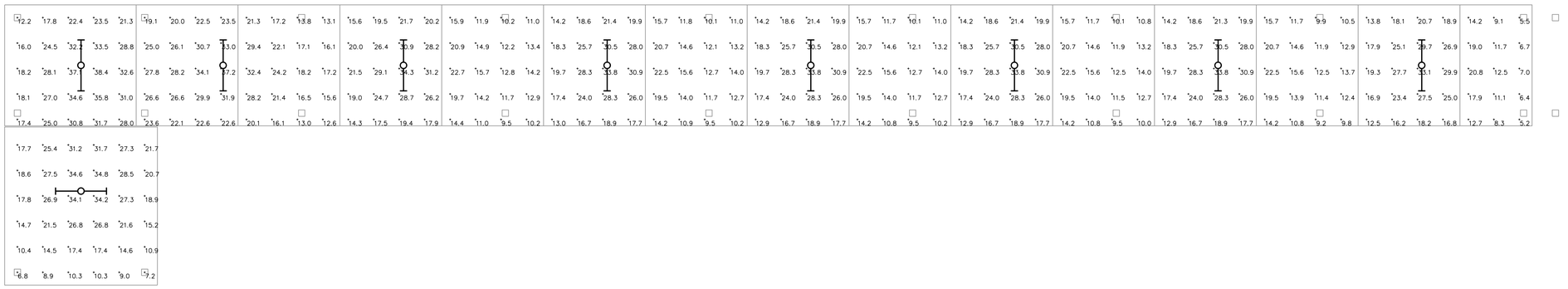
DESIGNED BY:	DRAWN BY:
ADM	ADM
ISSUE DATE:	A/E PROJECT NUMBER:
08-28-2026	S+A #26013

SHEET TITLE:
OVERALL SITE PLAN - ELECTRICAL

SHEET #:
E100

Florida Lighting Associates– Luminaire Schedule									
Symbol	Label	Arrangement	Description	[MANUFAC]	LLF	Luminaire Lumens	Luminaire Watts	Total Watts	Mounting Height	BUG Rating
	A	Single	CVT4–LSCS–MV (SET TO 38W AND 4000K)	COLUMBIA LIGHTING www.currentlighting.com	0.950	5586	38	342	8	B2–U3–G2

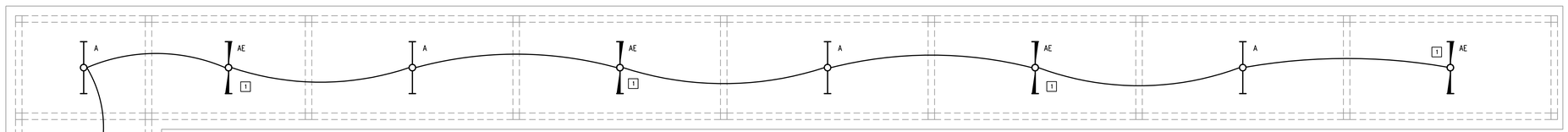
Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
UNDER CANOPY	Illuminance	Fc	19.60	38.4	5.2	3.77	7.38



CANOPY PLAN - PHOTOMETRICS

01

1/4"=1'-0"





LUMINAIRE SCHEDULE

TYPE	DESCRIPTION	LAMPS WATTS	LAMPS TYPE	VOLTAGE	REMARKS
A	4'–0" ENCLOSED GASKETED FIBERGLASS CANOPY SURFACE MOUNTED LED LUMINAIRE, NEMA 4X HOUSING IP65, IP66 RATED WITH POLYACETAL LATCHES, IMPACT RATED RATED ACRYLIC LENS, 5449 LUMENS, 35K DEEP FROSTED ACRYLIC LENS COLUMBIA LIGHTING CAT#LXEM–4–3500–HL–DFA–E–U–SSL–TP–(HUBS AS REQUIRED)	47W	3500K LED	120/277	
AE	4'–0" ENCLOSED GASKETED FIBERGLASS CANOPY SURFACE MOUNTED LED LUMINAIRE, NEMA 4X HOUSING IP65, IP66 RATED WITH POLYACETAL LATCHES, IMPACT RATED RATED ACRYLIC LENS, 5449 LUMENS, 35K DEEP FROSTED ACRYLIC LENS. ALSO EMERGENCY BATTERY 1400 LUMEN MIN. COLUMBIA LIGHTING CAT#LXEM–4–3500–HL–DFA–E–U–SSL–TP–(HUBS AS REQUIRED)–ELL14	47W	3500K LED	120/277	

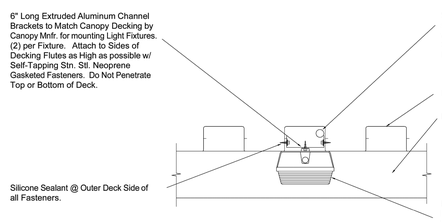
GENERAL LIGHTING FIXTURE NOTES:

1. COORDINATE TYPE OF CEILING FOR EACH FIXTURE WITH ARCHITECTURAL REFLECTED CEILING PLANS AND PROVIDE FIXTURE TRIM AS REQUIRED.
2. IF THERE IS A DISCREPANCY BETWEEN A FIXTURE DESCRIPTION AND GENERAL NOTES, AND THE CATALOG NUMBER LISTED, THE FIXTURE DESCRIPTION AND GENERAL NOTES SHALL DICTATE.
3. ALL FIXTURES SHALL BE PAINTED AFTER FABRICATION.
4. MANUFACTURERS OTHER THAN THOSE LISTED SHALL SUBMIT AND RECEIVE PRIOR APPROVAL 10 DAYS PRIOR TO BID DATE.

POWER KEYNOTES /:

1. PROVIDE NON–CONTROLLED/UN–SWITCHED HOT LEG TO EMERGENCY BATTERY FIXTURE AS REQUIRED.
2. CONNECT TO EXISTING CIRCUIT RETAINED DURING DEMOLITION OF EXISTING CANOPY LIGHTING. FIELD VERIFY EXACT LOCATION AS REQUIRED. PROVIDE ADDITIONAL HOT/UN SWITCHED CONDUCTOR FROM ORGINATION OF CIRCUIT AS REQUIRED FOR EMERGENCY BATTERY FIXTURES. VERIFY CIRCUIT VOLTAGE (SPECIFIED NEW LED CANOPY FIXTURE SHALL BE MULTI VOLTAGE.
3. CONNECT NEW CANOPY FIXTURES TO EXISTING BUILDING AUTOMATION CONTROL AS REQUIRED. COORDINATE EXACT REQUIREMENTS PRIOR TO INSTALLATION.

ALUMINUM CANOPY LIGHT FIXTURE INSTALLATION



1 **DETAIL** — TYPICAL ALUMINUM CANOPY LIGHT FIXTURE

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

April, 2024 — Page 1 of 1 — Volusia County Schools Facilities Services

CANOPY PLAN - ELECTRICAL

02

1/4"=1'-0"

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DESIGNED BY	DRAWN BY
ADM	ADM
ISSUE DATE: 08–28–2026	A/E PROJECT NUMBER: S+A #26013

SHEET TITLE:
ENLARGED CANOPY PLANS - ELECTRICAL

SHEET #:
E201