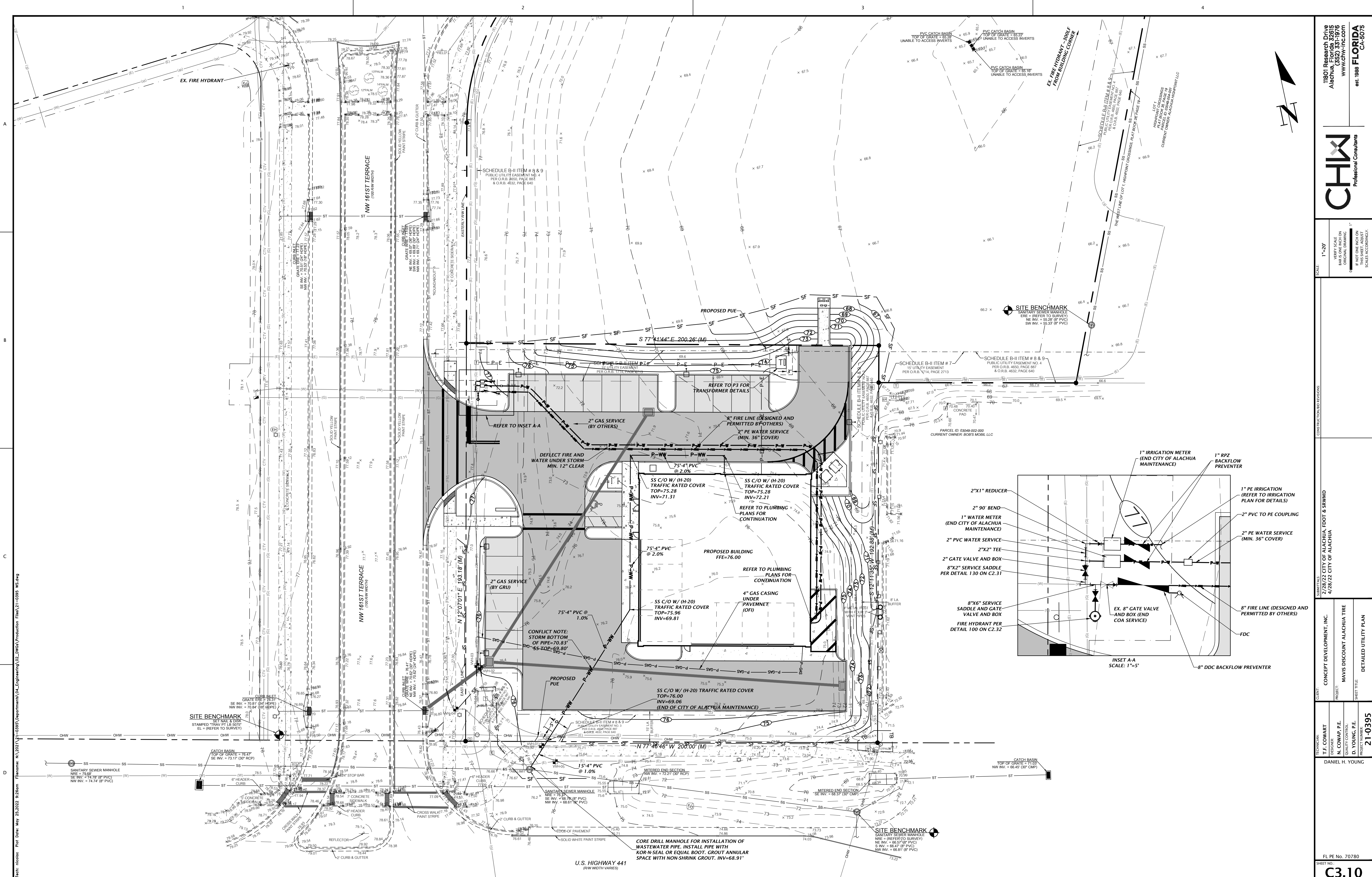




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(352) 331-1976
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1"=20'

VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING

1"

IF NOT ONE INCH ON
THIS SHEET, ADJUST

CONSTRUCTION AND REVISIONS:

LIBRARY TOTALS:
2/28/22 CITY OF ALACHUA, FDOT & SRWMD
4/28/22 CITY OF ALACHUA

CLIENT:
CONCEPT DEVELOPMENT, INC.

PROJECT:
MAVIS DISCOUNT ALACHUA TIR

SHEET TITLE:
DETAILED UTILITY PLAN

TECHNICIAN:	T.F. COWART
DESIGNER:	N. COWAP, P.E.
QUALITY CONTROL:	D. YOUNG, P.E.
PROJECT NUMBER:	

DANIEL H. YOUNG

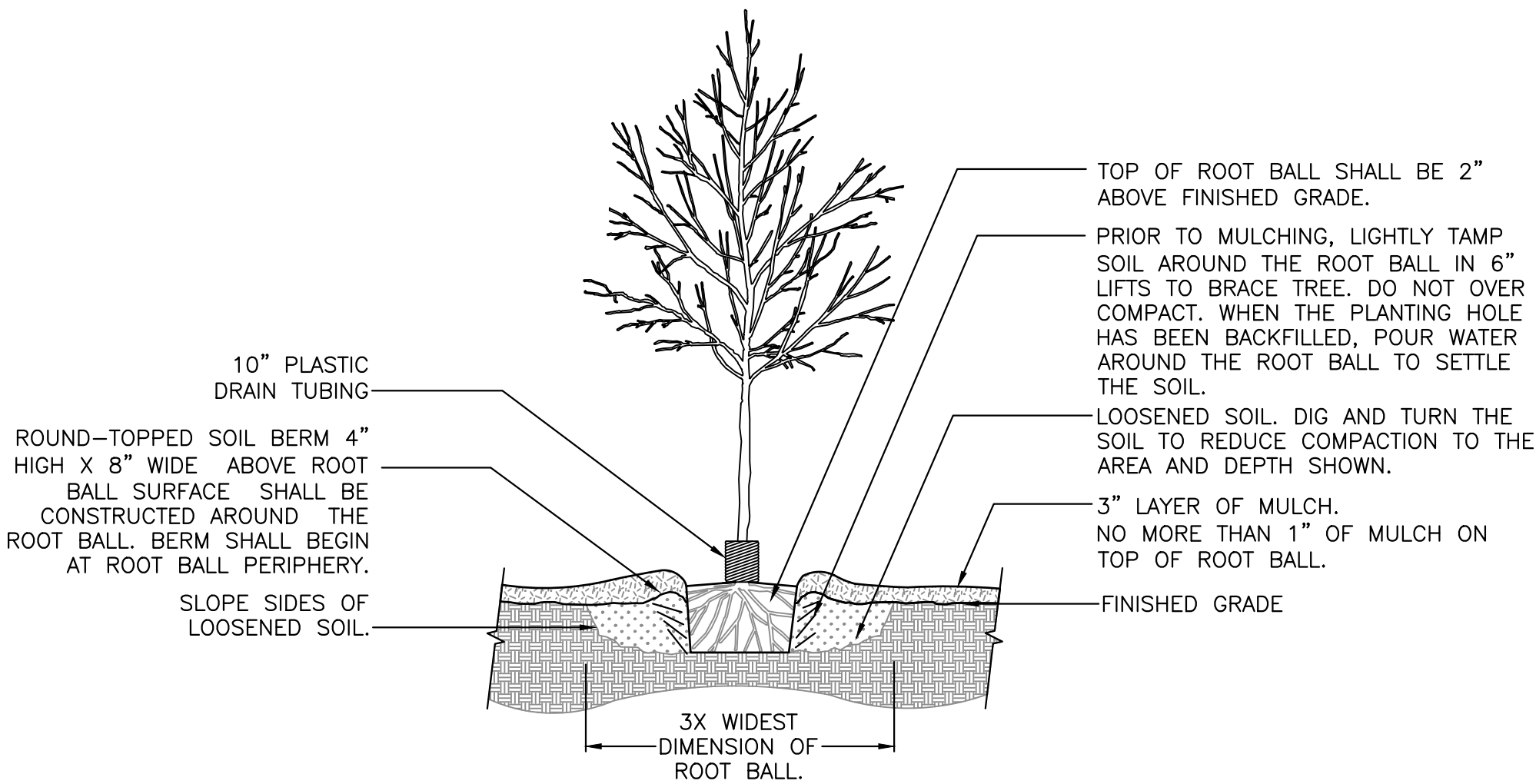
FL PE No. 70780
SHEET NO.:
C3.10

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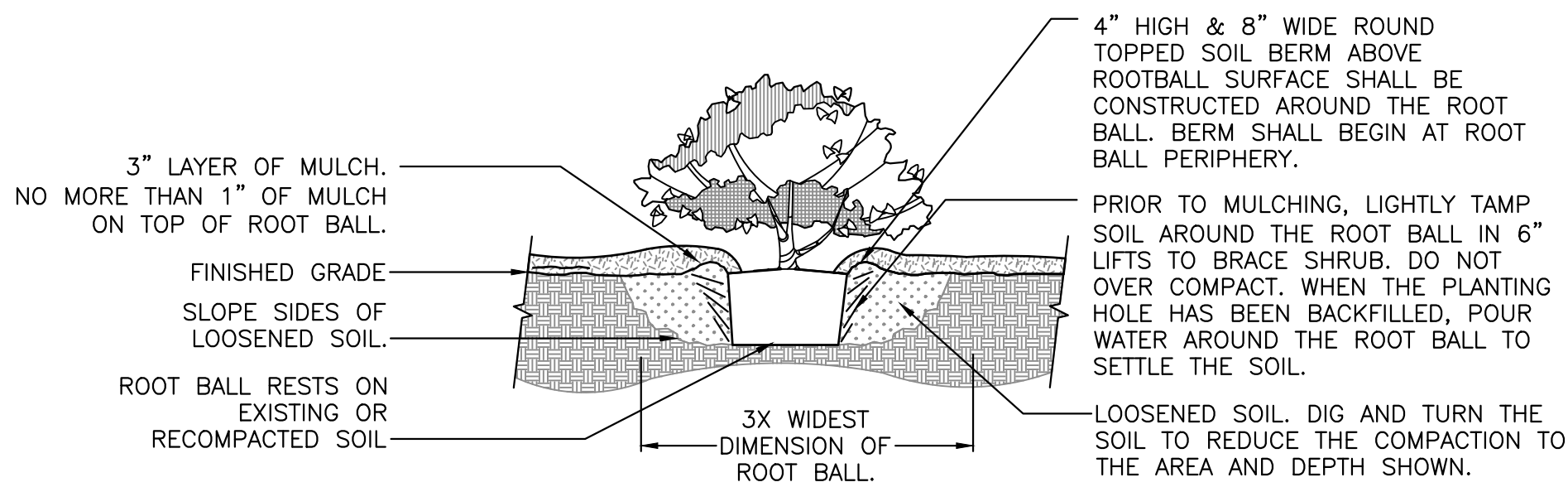


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BELOW
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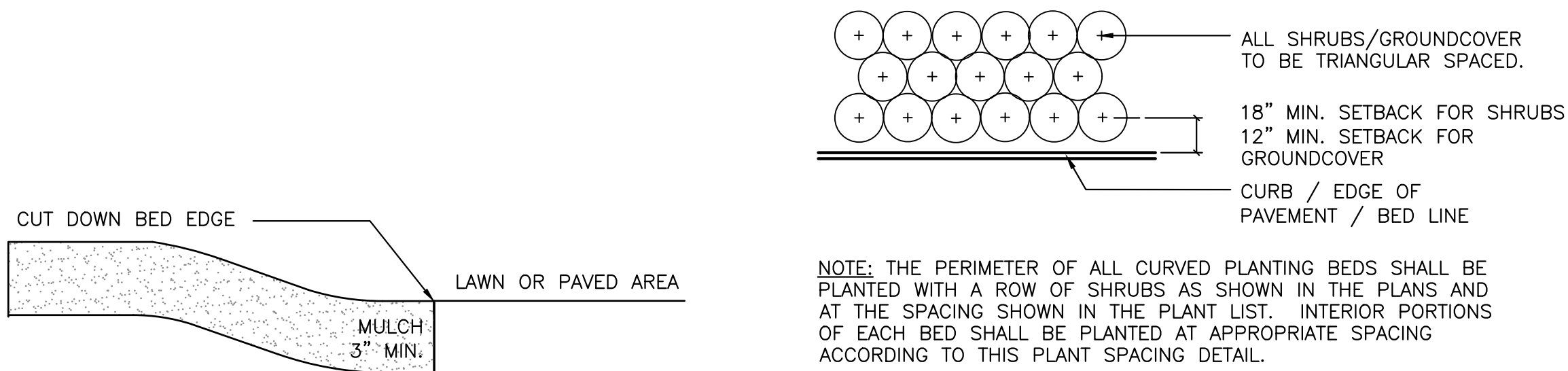
Call 811 two business days
before digging



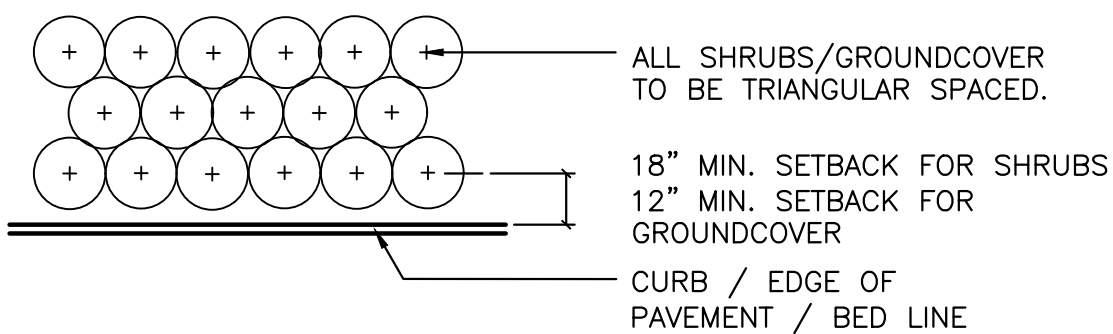
1 TREE PLANTING DETAIL
SCALE: N.T.S.



2 SHRUB PLANTING DETAIL
SCALE: N.T.S.



3 MULCH DETAIL
SCALE: N.T.S.



NOTE: THE PERIMETER OF ALL CURVED PLANTING BEDS SHALL BE PLANTED WITH A ROW OF SHRUBS AS SHOWN IN THE PLANS AND AT THE SPACING SHOWN IN THE PLANT LIST. INTERIOR PORTIONS OF EACH BED SHALL BE PLANTED AT APPROPRIATE SPACING ACCORDING TO THIS PLANT SPACING DETAIL.

4 SHRUB PLANTING DETAIL
SCALE: N.T.S.

PERIMETER BUFFER LANDSCAPE REQUIREMENTS [Section 6.2.2(D)(3)]

LOCATION	BUFFER LENGTH & TYPE	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED
NORTH PERIMETER	175 L.F. BUFFER TYPE 'C'	OPTION 1 1 CANOPY TREE/30 LF ONE EVERGREEN HEDGE	6 CANOPY TREES AND ONE EVERGREEN HEDGE
EAST PERIMETER	170 L.F. BUFFER TYPE 'A'	OPTION 2 1 CANOPY TREE/60 LF ONE HEDGE	3 CANOPY TREES AND ONE EVERGREEN HEDGE
WEST PERIMETER	170 L.F. BUFFER TYPE 'A'	OPTION 2 1 CANOPY TREE/60 LF ONE HEDGE	3 CANOPY TREES AND ONE EVERGREEN HEDGE
SOUTH PERIMETER	200 L.F. ARTERIAL BUFFER	4 CANOPY TREES/100 LF 3 UNDERSTORY TREES/100 LF ONE HEDGE	8 CANOPY TREES 6 UNDERSTORY TREES ONE EVERGREEN HEDGE

LANDSCAPED AREA REQUIREMENT
PER CITY OF ALACHUA COMPREHENSIVE PLAN FUTURE LAND USE ELEMENT, POLICY 2.4.A

TOTAL SITE AREA.....	0.887 ACRES
TOTAL PROPOSED OPEN AREA.....	0.097 ACRES
OPEN AREA % OF TOTAL SITE AREA.....	10% (MIN. 10%)
TOTAL PROPOSED LANDSCAPE AREA (EXCLUSIVE OF OPEN AREA).....	.155 ACRES
LANDSCAPED AREA % OF TOTAL SITE AREA.....	17% (MIN. 10%)

PARKING AREA LANDSCAPE REQUIREMENTS [Sec. 6.2.2(D)(2)(a) & (b)]

DESCRIPTION	LANDSCAPE REQUIRED	LANDSCAPE PROVIDED
PARKING AREA PERIMETER LANDSCAPE	PARKING PERIMETER = 380 L.F. 4 CANOPY TREES PER 100 L.F. 2 UNDERSTORY/ORNAMENTAL PER 100 L.F. CONTINUOUS ROW OF SHRUBS 15 CANOPY TREES REQUIRED 8 UNDERSTORY TREES REQUIRED CONTINUOUS ROW OF SHRUBS	4 CANOPY TREES PROVIDED 19 UNDERSTORY TREES PROVIDED CONTINUOUS ROW OF SHRUBS PROVIDED
INTERIOR PARKING AREA LANDSCAPE	PARKING AREA = 16,887 S.F. 1 CANOPY/UNDERSTORY TREE REQUIRED PER 1,800 S.F. 10 SHRUBS REQUIRED PER TREE REQUIRED 9 CANOPY/UNDERSTORY TREES REQUIRED 90 SHRUBS REQUIRED	9 UNDERSTORY TREES PROVIDED 90 SHRUBS PROVIDED

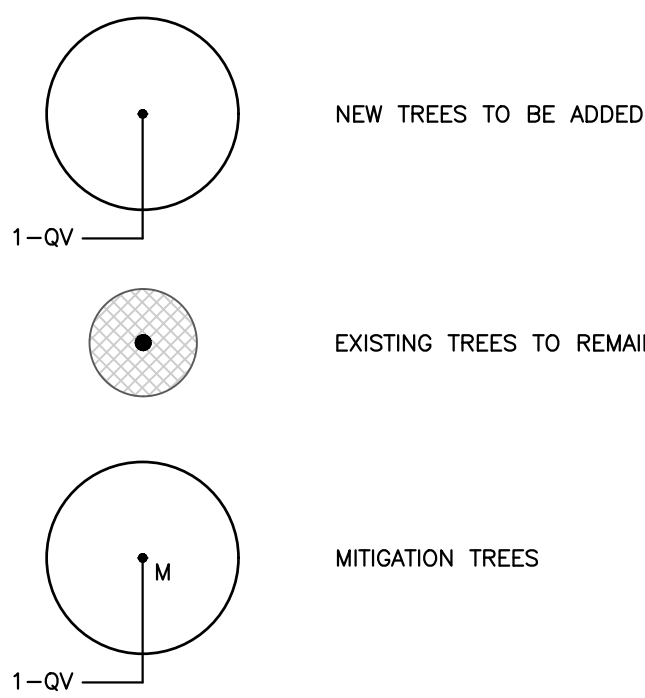
SITE LANDSCAPE CALCULATIONS [Sec. 6.2.2(D)(1)(c)]

DESCRIPTION	TREE REQUIREMENTS	TREES PROVIDED
PRIMARY SIDE CANOPY TREES (SOUTH SIDE)	2 TREES PER ACRE X 0.887 ACRES = 2 CANOPY TREES REQUIRED	2 UNDERSTORY TREES PROVIDED DUE TO EXISTING OVERHEAD UTILITY LINE
REAR SIDE CANOPY TREES (NORTH SIDE)	1.34 TREES PER ACRE X 0.887 ACRES = 1 TREES REQUIRED	1 CANOPY TREE PROVIDED
EAST SIDE CANOPY TREES	1.34 TREES PER ACRE X 0.887 ACRES = 1 TREES REQUIRED	1 CANOPY TREE PROVIDED
WEST SIDE CANOPY TREES	1.34 TREES PER ACRE X 0.887 ACRES = 1 TREES REQUIRED	1 UNDERSTORY TREE PROVIDED DUE TO EXISTING UTILITIES
SITE UNDERSTORY TREES	4 UNDERSTORY TREES PER ACRE X 0.887 ACRES = 4 TREES REQUIRED 50% IN FRONT = 2 TREES REQUIRED 25% ON EAST SIDE = 1 TREES REQUIRED 25% ON WEST SIDE = 1 TREES REQUIRED 4 UNDERSTORY TREES REQUIRED	FRONT SIDE 2 UNDERSTORY TREES PROVIDED EAST SIDE 1 UNDERSTORY TREES PROVIDED WEST SIDE 1 UNDERSTORY TREES PROVIDED 4 UNDERSTORY TREES PROVIDED
BUILDING FACADE	2.68 CANOPY TREES PER 100 LIN. FT. AND ROW OF SHRUBS REQUIRED ON EACH SIDE 84 LF NORTH FACADE = 2 TREES REQUIRED 84 LF SOUTH FACADE = 2 TREES REQUIRED 84 LF WEST FACADE = 2 TREES REQUIRED 84 LF EAST FACADE = 2 TREES REQUIRED	NORTH FACADE 2 CANOPY TREES PROVIDED SOUTH FACADE 2 UNDERSTORY TREES PROVIDED WEST FACADE 2 UNDERSTORY TREES PROVIDED EAST FACADE 2 CANOPY TREES PROVIDED ROW OF SHRUBS PROVIDED ON ALL SIDES

TREE MITIGATION CALCULATIONS

CATEGORY	MITIGATION CALCULATIONS
INCH-FOR-INCH REPLACEMENT	HERITAGE TREES NO HERITAGE TREES ON SITE TOTAL INCHES REQUIRED.....0" TOTAL INCHES PROVIDED.....0" TOTAL MITIGATION DEFICIT/SURPLUS.....0"
1:1 REPLACEMENT	TOTAL TREES TO BE MITIGATED AT 1:1 REPLACEMENT.....6 TREES TOTAL TREES REQUIRED FOR MITIGATION @ 1:1 REPLACEMENT.....6 TREES TOTAL REPLACEMENT TREES PROVIDED.....6 TREES TOTAL PRESERVATION CREDITS0 TOTAL MITIGATION DEFICIT/SURPLUS.....0 TREES

LEGEND



GENERAL NOTES
ALL ASPHALT, LIMEROCK, AND CONSTRUCTION DEBRIS SHALL BE REMOVED FROM PLANTING BEDS AND SOD AREAS PRIOR TO LANDSCAPE INSTALLATION. IF ENCOUNTERED DURING CONSTRUCTION OR INSTALLATION, THESE SHALL BE EXCAVATED AND REMOVED FROM THE SITE. PLANTING DEPTH OF SOIL IN SUCH AREAS SHOULD BE AT LEAST 3'. IF FILL MUST BE ADDED, IT MUST BE FLORIDA CLEAN DEEP FILL (FREE OF WEED SEEDS) WITH pH 6.0 - 7.5.

ALL LANDSCAPED AREAS SHALL BE MULCHED WITH 3" THICKNESS OF MULCH. PINE BARK MULCH SHALL BE USED IN ALL AREAS, EXCEPT RETENTION AREAS. PINE STRAW MULCH SHALL BE USED IN RETENTION AREAS.

NEW TREES OUTSIDE OF MULCHED LANDSCAPED BEDS WILL BE PROTECTED FROM MOWER AND STRING TRIMMER DAMAGE WITH 10" OF PLASTIC DRAIN TUBING.

LEADER SHOOTS AND MAIN STRUCTURAL LIMBS OF TREES SHALL NOT BE TOPPED OR PRUNED. TREES WILL BE STAKED AS NEEDED. GUYLINES WILL BE OF NON-SYNTHETIC BIODEGRADABLE MATERIAL.

REFER TO CIVIL PLANS FOR TREE BARRICADE DETAILS AND INFORMATION.

GRASSING
ALL DISTURBED AND UNPAVED AREAS TO BE GRASSED WITH SOD THAT IS FREE OF NOXIOUS WEEDS INCLUDING TROPICAL SODA APPLE OR SHALL BE SEEDED AND MULCHED. SEE CIVIL SITE PLANS FOR ADDITIONAL RELATED INFORMATION.

PLANT MATERIAL
ALL PLANT MATERIAL TO BE FLORIDA NO.1 OR BETTER, GRADED IN ACCORDANCE WITH THE STATE OF FLORIDA DEPARTMENT OF AGRICULTURE, DIVISION OF PLANT INDUSTRY'S 'GRADES AND STANDARDS FOR NURSERY PLANTS', CURRENT EDITION AT THE TIME PLANS ARE ISSUED. CALL THE LANDSCAPE ARCHITECT PRIOR TO PURCHASING ANY PLANT MATERIAL FOR AN ON SITE INSPECTION AND REVIEW OF LANDSCAPE PLAN.

PLANT QUANTITIES SHOWN ARE FOR PERMITTING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM ALL QUANTITIES SHOWN ON THE PLAN.

10% OPEN SPACE REQUIREMENT
AS PER CITY OF ALACHUA LDR SECTION 6.7.3 (A), THE MINIMUM OPEN SPACE SET ASIDE SHALL BE 10% OF THE DEVELOPMENT SITE. REFER TO CIVIL PLANS FOR OPEN SPACE CALCULATIONS.

IRRIGATION
LANDSCAPE IRRIGATION TO BE PROVIDED BY AUTOMATIC IRRIGATION SYSTEM IN ACCORDANCE WITH CITY OF ALACHUA LDR SECTION 6.2.2(D)(6)(B)(V).

A TEMPORARY OR PERMANENT AUTOMATIC IRRIGATION SYSTEM IS REQUIRED FOR ALL NEW REQUIRED LANDSCAPING INSTALLED [ALACHUA COUNTY LDC SEC. 407.46(A)]. TEMPORARY IRRIGATION SYSTEMS MUST BE REMOVED ONCE THE PLANTS ARE ESTABLISHED OR WITHIN TWO YEARS, WHICHEVER OCCURS FIRST. PRIOR TO THE INSTALLATION OF A NEW PERMANENT IRRIGATION SYSTEM OR SUBSTANTIAL MODIFICATION TO AN EXISTING SYSTEM, AN IRRIGATION PLAN MUST BE SUBMITTED TO AND APPROVED BY THE ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT THROUGH THE ONLINE ALACHUA COUNTY IRRIGATION PROFESSIONAL PORTAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THE IRRIGATION PLAN THROUGH THE IRRIGATION PROFESSIONAL PORTAL. THE IRRIGATION SYSTEM SHALL COMPLY WITH THE LANDSCAPE IRRIGATION DESIGN AND MAINTENANCE STANDARDS FOUND IN ARTICLE II OF PART II, TITLE 7, CHAPTER 79 OF THE ALACHUA COUNTY CODE, WHICH, AMONG ADDITIONAL DESIGN STANDARDS, LIMITS HIGH VOLUME IRRIGATION TO 60% OF THE LANDSCAPED AREA. FOR MORE INFORMATION, CONTACT THE ALACHUA COUNTY ENVIRONMENTAL PROTECTION DEPARTMENT AT 352-264-6800.

ALL NEWLY PLANTED TREES SHALL HAVE INDIVIDUAL LOW FLOW OR MICRO-IRRIGATION SUPPLIES [407.46(A)3]. ALL IRRIGATION SYSTEMS ARE REQUIRED TO HAVE A MOISTURE SENSOR/AUTOMATIC RAINFALL SHUTOFF DEVICE [407.46(A)4].

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(352) 331-1976
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LA000683

CHW
Professional Consultants

SCALE: N/A
VERIFY SCALE
BASED ON SCALE ON
ORIGINAL DRAWING
0 INCHES = 1" (DO NOT USE INSTEAD OF THIS SHEET, ADJUST SCALES ACCORDINGLY.)

CONSTRUCTION/BBU REVISIONS

REVISIONS
2/28/22 CITY OF ALACHUA FDOT & SRWMD
03/11/22 CITY OF ALACHUA FDOT & SRWMD
04/28/22 CITY OF ALACHUA FDOT & SRWMD
05/16/22 CITY OF ALACHUA FDOT & SRWMD

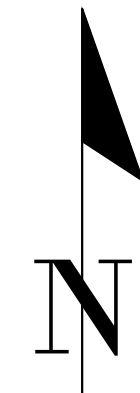
CLIENT: CONCEPT DEVELOPMENT, INC.
DESIGNER: JMS
PROJECT: MAVIS DISCOUNT ALACHUA TIRE
QUALITY CONTROL: CT
SHEET TITLE: LANDSCAPE NOTES, DETAILS, & CALCULATIONS
PROJECT NUMBER: 21-0395

DESIGNER: JMS
QUALITY CONTROL: CT

SHEET NO.:
LS-1

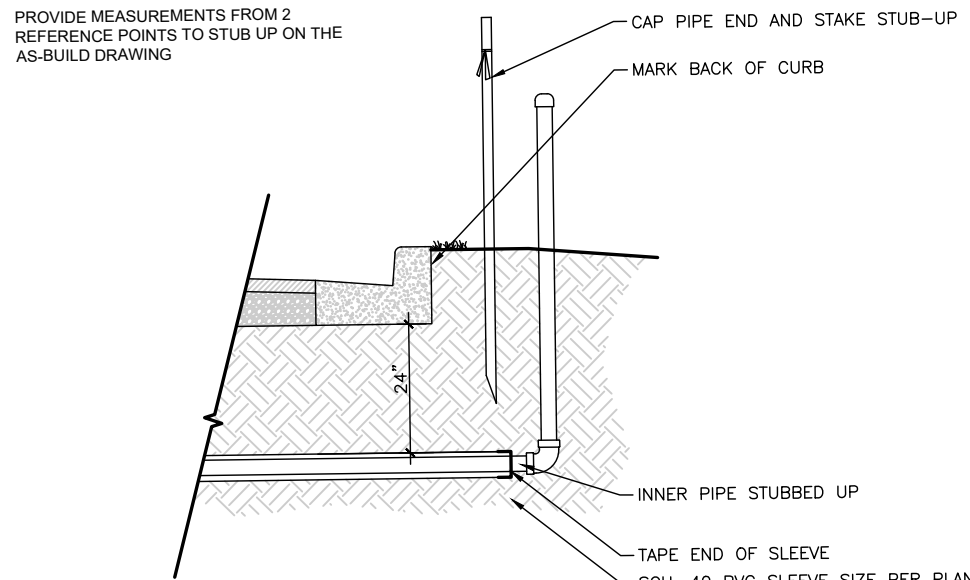
A B C D

SPACING
18" o.c.
48" o.c.



IRRIGATION_SCHEDULE

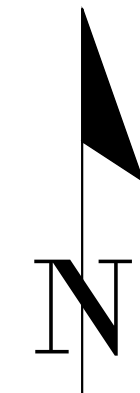
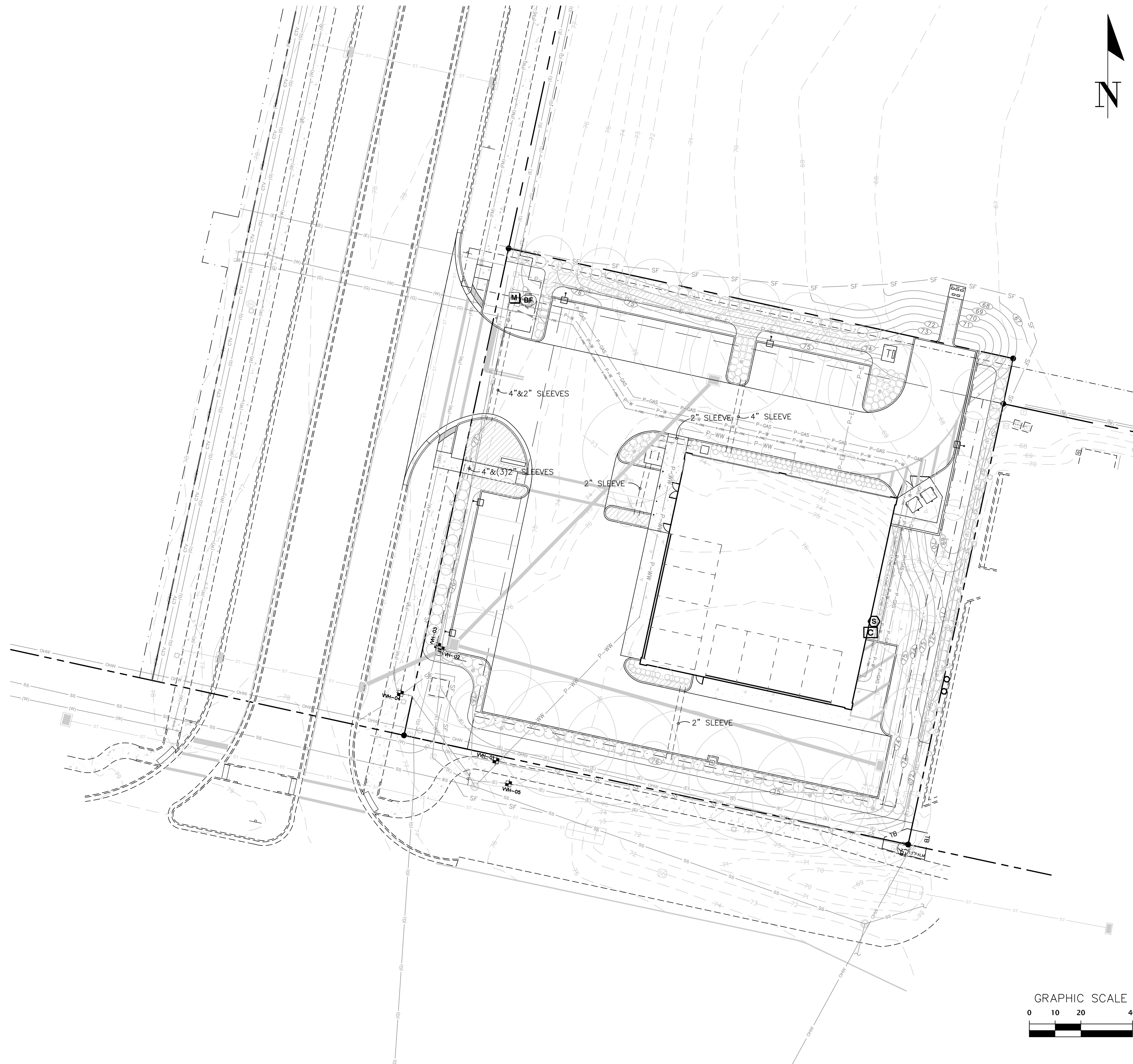
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter PC Controller
	Hunter MINI-CLIK
	Water Meter 3/4" (by others)
	Zurn 975XL 1" Backflow Preventer
	Pipe Sleeve: PVC Schedule 40



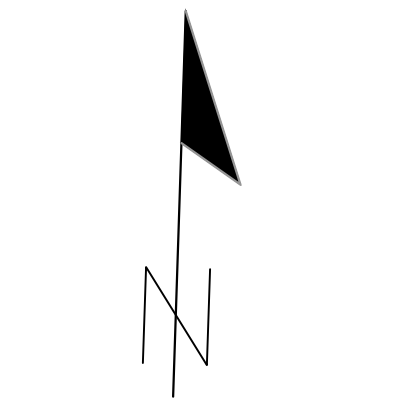
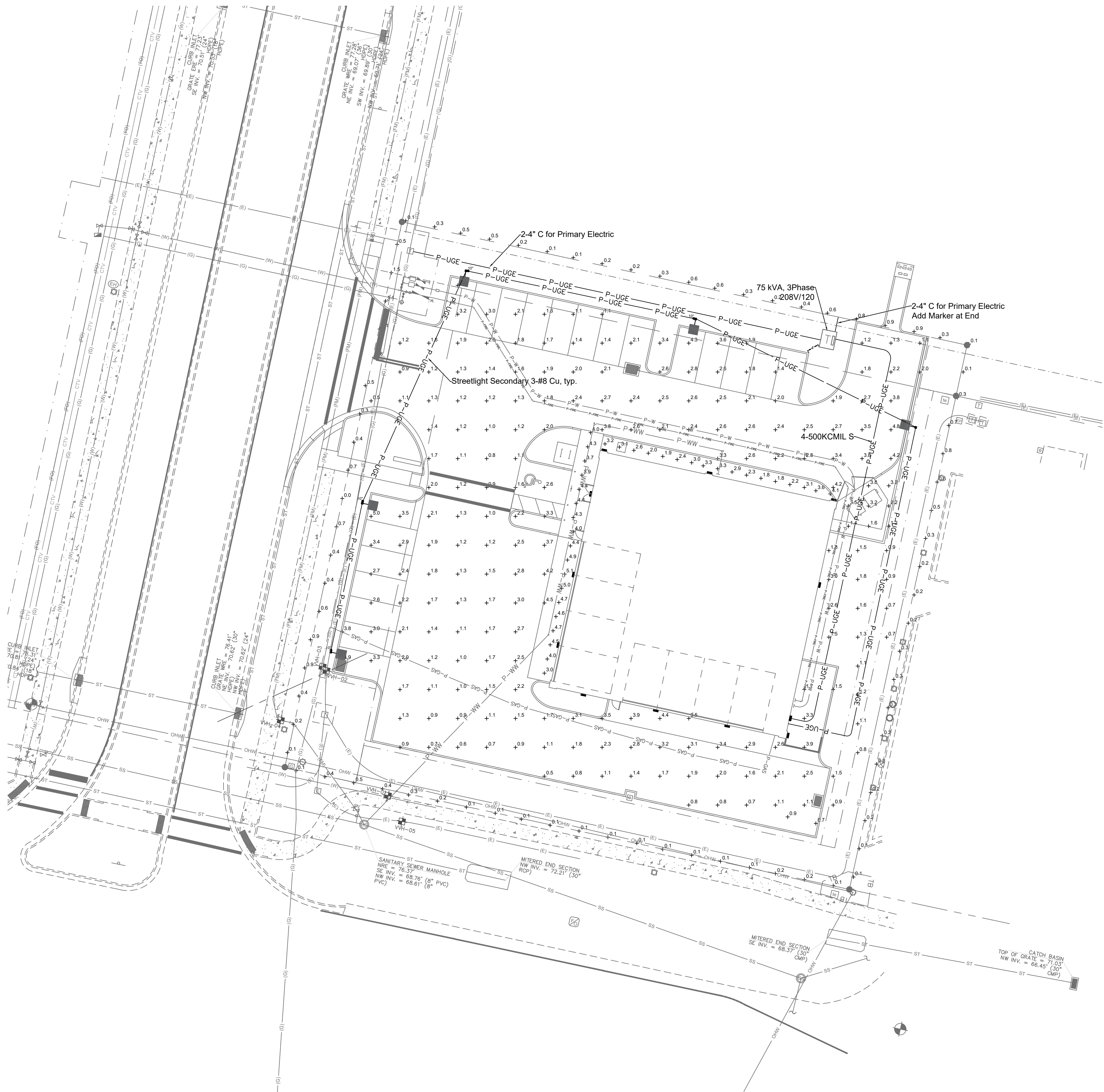
1 SLEEVING ROUGH-IN DETAIL
SCALE: N.T.S.



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DESIGNER: JMS	CLIENT: CONCEPT DEVELOPMENT, INC.	SHEET TITLE: IRRIGATION DIAGRAM, SCHEDULE, & DETAIL	PROJECT: MAVIS DISCOUNT ALACHUA TIRE	SHEET NUMBER: 21-0395	DATE: 2/28/22, CITY OF ALACHUA, FDOT, & SRWMD 03/11/22, CITY OF ALACHUA, FDOT, & SRWMD 04/28/22, CITY OF ALACHUA, FDOT, & SRWMD 05/16/22, CITY OF ALACHUA, FDOT, & SRWMD	SCALE: 1"=20'	CONSTRUCTION/REVISIONS:	CHW Professional Consultants	11801 Research Drive Alachua, Florida 32615 (352) 331-1976 www.chw-inc.com est. 1988 FLORIDA LA000683



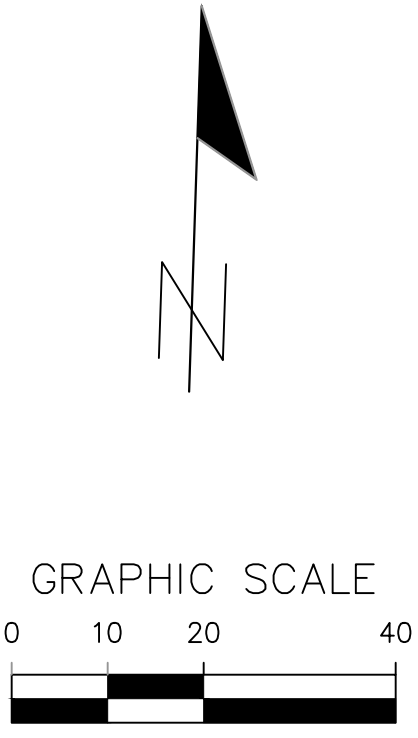
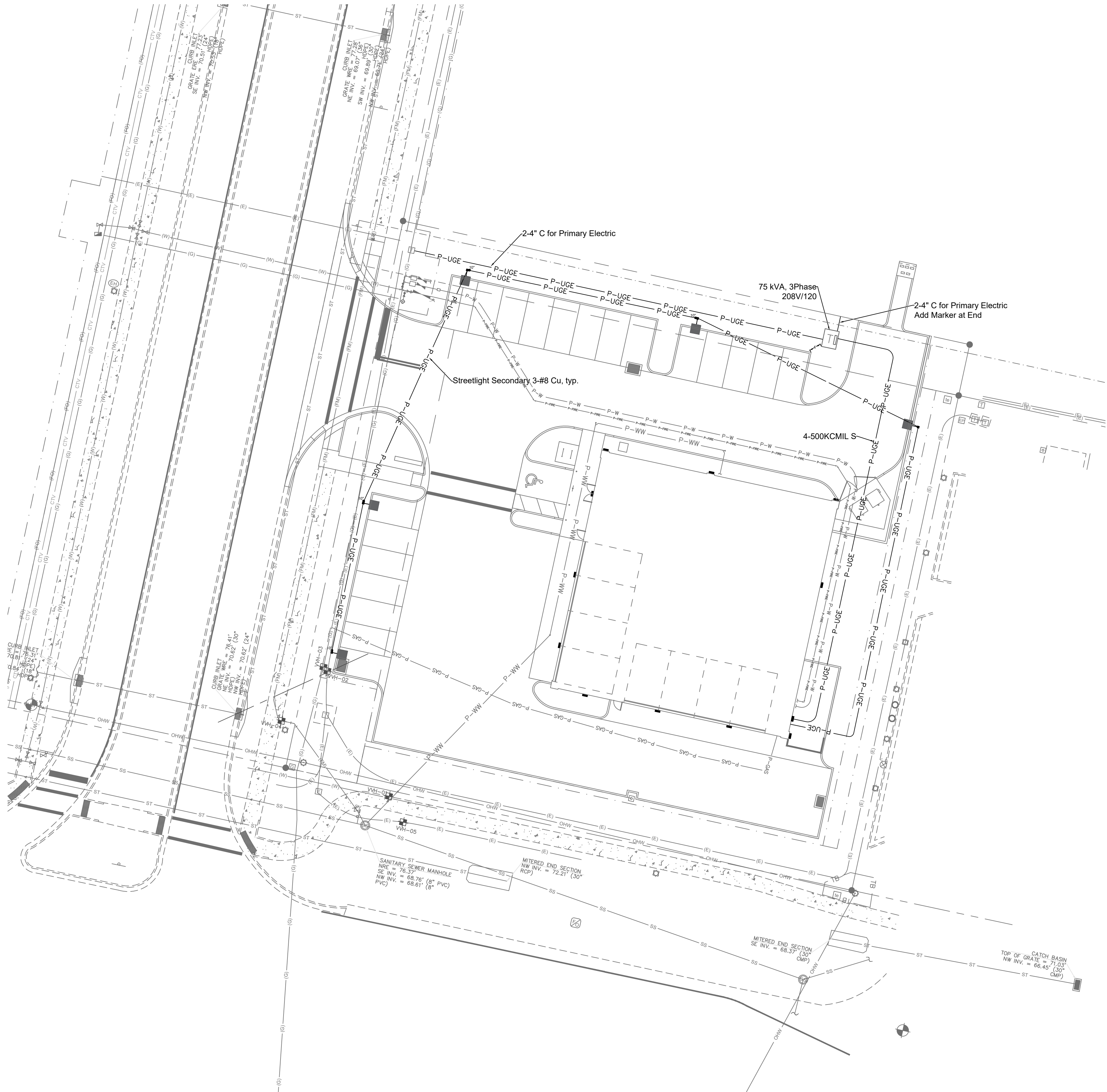
ELECTRICAL UTILITIES LEGEND

- SC EXISTING PRIMARY SECTIONALIZING CABINET VOLTAGE LOOP - WILL BE SOURCE FOR OUT PARCELS.
- 3 ♦ TRANSFORMER ON CONCRETE PAD
- 3-1/0 P 3-1/0 AL UTILITY PRIMARY CABLE IN 4" PVC AT 48" MIN. COVER
- 3-500 S 4-500KMCIL COPPER IN 4" PVC CONDUIT SECONDARY SERVICE AT 36" MIN. COVER - VERIFY SIZE WITH ARCHITECTURAL PLANS
- #8 2 #8 AND #8 CU EGC SECONDARY CONDUCTORS IN 1.25" AT 36" MIN. OR AS CODE ALLOWS FOR PRIVATE LIGHTING
- 10" SMALL BURIED WIRE ENCLOSURE, APPROXIMATELY 10" DIA. X 19" DEEP. (TYPICALLY FOR STREETLIGHTING FEEDS - INCLUDED BUT NOT SHOWN ON ALL LIGHTS)
- SEE LIGHTING DETAIL SHEET FOR LIGHTING LEGEND FOR LUMINAIRE DESCRIPTION AND SPECS.

LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

SEAL

WILLIAM T. STORMANT, P.E.
ELECTRICAL ENGINEER
5304 NW 173 Street, Alachua, FL 32615
stormantwt@cox.net
(352) 665-1426
P.E. No.: 44156



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SPECIFICATIONS:

1. SCOPE OF PROJECT - THE WORK SHALL INCLUDE (BUT NOT BE LIMITED TO) THE FOLLOWING COMPLETE (AND OPERATING) SYSTEMS AND AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN FOR A ON-SITE COA ELECTRICAL PRIMARY VOLTAGE DISTRIBUTION SYSTEM INCLUDING A 3 PHASE -1/0 URD LOOP AND A PRIVATE LIGHTING SYSTEMS. THE BREAK OUT IS DETAILED BELOW.
- 1.1 SCOPE OF COA ELECTRICAL WORK: AT NO COST TO THE CITY, THE COA WILL PERFORM CERTAIN WORK ELEMENTS TO ASSIST THE CONTRACTOR IN PROVIDING COMPLETE AND OPERATING ELECTRICAL SYSTEMS AS SHOWN ON THE DRAWINGS AND SPEIFIED HEREIN.
- 1.2 THE WORK TO EXTEND THE SERVICE AND TO PROVIDE THE TRANSFORMER SHALL BE A JOINT EFFORT BETWEEN THE CONTRACTOR AND COA.
- 1.3 THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL ELECTRICAL WORK REQUIRED TO PROVIDE SECONDARY LOAD-SIDE SERVICE FROM THE TRANSFORMER INCLUDING THE PRIVATE LIGHTING SYSTEM.
- 1.4 COA WILL ORDER THE FOLLOWING PRODUCTS, WHICH WILL BE PAID FOR BY THE CONTRACTOR: ALL PRIMARY CABLES, ALL TRANSFORMERS, AND ALL MAKEUP MATERIALS. ONCE ON SITE, THESE PRODUCTS WILL BE INSTALL BY COA. ALL PRIMARY MAKE UP, CONNECTIONS AND TESTING WILL BE COMPLETED BY COA. ALL WORK PERFORMED BY COA WILL BE BACK CHARGED TO THE CONTRACTOR.
- 1.5 THE CONTRACTOR SHALL FURNISH AND INSTALL ALL OTHER MATERIALS, INCLUDING BUT NOT LIMITED TO ALL CONDUIT, ENCLOSURES, POLES, LUMINAIRES, TRANSFORMER PADS AND SWITCHGEAR BASES AS NEEDED FOR THE UTILITY SYSTEM.
- 1.6 THE CONTRACTOR SHALL SCHEDULE AN ELECTRICAL COORDINATION MEETING AT START OF PROJECT. REQUIRED ATTENDEES INCLUDE THE CONTRACTOR, THE ELECTRICAL SUB-CONTRACTOR, THE ENGINEER OF RECORD, THE COA PROJECT MANAGER AND COA ELECTRICAL STAFF.
- 1.7 PROVIDE ALL WIRING, CONDUIT, POLES, LUMINAIRES, BASES AND EQUIPMENT TO INSTALL A COMPLETE AND OPERATING PRIVATE LIGHTING SYSTEM. CONTRACTOR'S RESPONSIBILITY TO ADD PULL BOXES AS NEEDED. TO MEET CODE.
- 1.8 PRIVATE LIGHTING SYSTEM WILL BE SERVED AND CONTROLLED FROM THE BUILDING ELECTRICAL ROOM AS SHOWN ON THE BUILDING ELECTRICAL (MEP) PLANS AND IS NOT A PART OF THIS PLAN. COORDINATED CABLE BUILDING ENTRY WITH MEP PLANS.
- 1.9 ALL UTILITY SYSTEM CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE REQUIREMENTS FOR THIS TYPE FACILITY AND MEET CITY OF ALACHUA UTILITIES POLICIES AND PRACTICES.
- 1.10 "PROVIDE" SHALL MEAN FURNISH, INSTALL, CONNECT, ADJUST, AND TEST EXCEPT WHERE NOTED.

2. MATERIALS AND EQUIPMENT SHALL BE NEW AND SUITABLE FOR THE PURPOSE INTENDED. CUT SHEETS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AND THE ELECTRIC DEPARTMENT PRIOR TO ORDERING FOR APPROVAL. CONTRACTOR IS RESPONSIBLE FOR PROCURING AND INSTALLING: CONDUITS, POLES, LUMINAIRES, ALL SECONDARY VOLTAGE CABLES AND CONNECTORS, SECTIONALIZING CABNETS, SWITCHGEAR BASES AND COVERS, UNDERGROUND JUNCTION BOXES AND BURIED WIRE ENCLOSURES AND AL OTHER ITEMS REQUIRED FOR COMPLETE OPERATING SYSTEMS.
- 2.1. UNDERGROUND 15 KV 3-1/0 AWG AL, 19 STRAND, JACKETED PRIMARY CABLE SHALL HAVE STRAND FILLED CENTRAL CONDUCTOR, SEMI-CONDUCTING CONDUCTOR SHIELD, 175 MIL VIRGIN TREE RETARDANT CROSS-LINKED POLYETHYLENE INSULATION, BLACK CROSS-LINKED POLYETHYLENE SHIELD, FULL CONCENTRIC CU NEUTRAL, WITH INSULATING, BLACK LINEAR LOW DENSITY POLYETHYLENE JACKET EXTRUDED OVER THE NEUTRAL. APPROVED MANUFACTURERS ARE HENDRIX, PIRELLI, PRYSMIAN AND SOUTHWIRE. COA PROCURED.
- 2.2. UNDERGROUND PRIVATE LIGHTING SECONDARY CABLES SHALL COPPER WITH THHN OR THWN-2 INSULATION WITH COLORATION TO MEET THE NATIONAL ELECTRICAL REQUIREMENTS.
- 2.3. THE LOAD BREAK ELBOWS AND T HOUSINGS SHALL HAVE EPDM RUBBER INSULATION. VERIFY CABLE DIMENSIONS FOR APPLICABILITY. APPROVED MANUFACTURERS ARE ELASTIMOLD, COOPER POWER SYSTEMS, AND RTE. COA PROCURED.
- 2.4. THREE PHASE PAD MOUNTED TRANSFORMER SHALL BE DEAD FRONT, LOOP FEED CAPABILITY, HIGH VOLTAGE 12470 GRD Y 7200 VOLTS, LOW VOLTAGE 208 GRD Y/120 VOLT, 95 KV BIL, COMPARTMENTAL TYPE, RATINGS BASED ON 65 DEGREE C WINDING RISE, HIGH GRADE, COLD REDUCED, GRAIN ORIENTED SILICON STEEL CORE, 8.3/14.4 KV CLASS BUSHING WELLS AND LOAD BREAK INSERTS, LOW VOLTAGE TERMINALS SHALL BE STUD TYPE, TANK SHALL BE SEALED AND FURNISHED COMPLETE WITH PCB FREE DIELECTRIC OIL, AND DOORS SHALL BE PAD LOCKABLE. TRANSFORMERS SHALL BE PROTECTED WITH A BAYONET FUSE, SHALL BE EQUIPPED WITH A PRESSURE RELIEF DEVICE. TRANSFORMER, SHALL MEET OR EXCEED THE JANUARY 1, 2010 D.O.E. EFFICIENCY LEVELS FOR LIQUID FILLED TRANSFORMERS. TRANSFORMERS WILL BE MOUNTED ON A WINDOWED, CONTRACTOR PROVIDED, POURED IN PLACE TRANSFORMER PAD AS SHOWN IN THE DETAILS. TRANSFORMER IS SIZED AS SHOWN AND IS COA PROCURED. PLEASE COORDINATE WITH COA FOR A DETAILED TRANSFORMER SPECIFICATION.
- 2.5. SECONDARY CABLES SHALL BE TERMINATED WITHIN THE TRANSFORMERS ON SPADE TYPE TRANSFORMER TERMINALS WITHIN THREE PHASE TRANSFORMERS. APPROVED MANUFACTURERS UTILCO, CMC, ESP AND PREFORMED LINE PRODUCTS.
- 2.6. NOT USED
- 2.7. PVC CONDUIT SHALL BE SCHEDULE 40, HEAVY WALL, RATED FOR 90C. CABLE, UL LISTED IN 10 OR 20 FOOT LENGTHS WITH INTEGRAL BELLS. ALL 6" ELBOWS SHALL BE FIBERGLASS WITH 48" RADIUS WITH APPROPRIATE TRANSITION FITTINGS. ALL OTHER ELBOWS SHALL BE PVC SCHEDULE 40 WITH LONG RADIUS SWEEPS.
- 2.8. PROVIDE PARKING STAND ARRESTORS TO BE INSTALLED AT EACH OPEN POINT AND ELBOW ARRESTORS AT END POINT. APPROVED MANUFACTURER IS ELASTIMOLD. COA PROCURED.
- 2.9. ALL TRANSFORMERS SHALL HAVE SCHWEITZER ENGINEERING LABORATORIES (SEL) 3 PHASE FAULT INDICATORS INSTALLED ON B SIDE OF TRANSFORMER. - SHALL BE SEL 3BCRB0200IR. NOT APPLICABLE. COA PROCURED.
- 2.10. SEE LIGHTING SCHEDULE FOR STREET LIGHT FIXTURE AND POLE SPECIFICATIONS.

GENERAL NOTES:

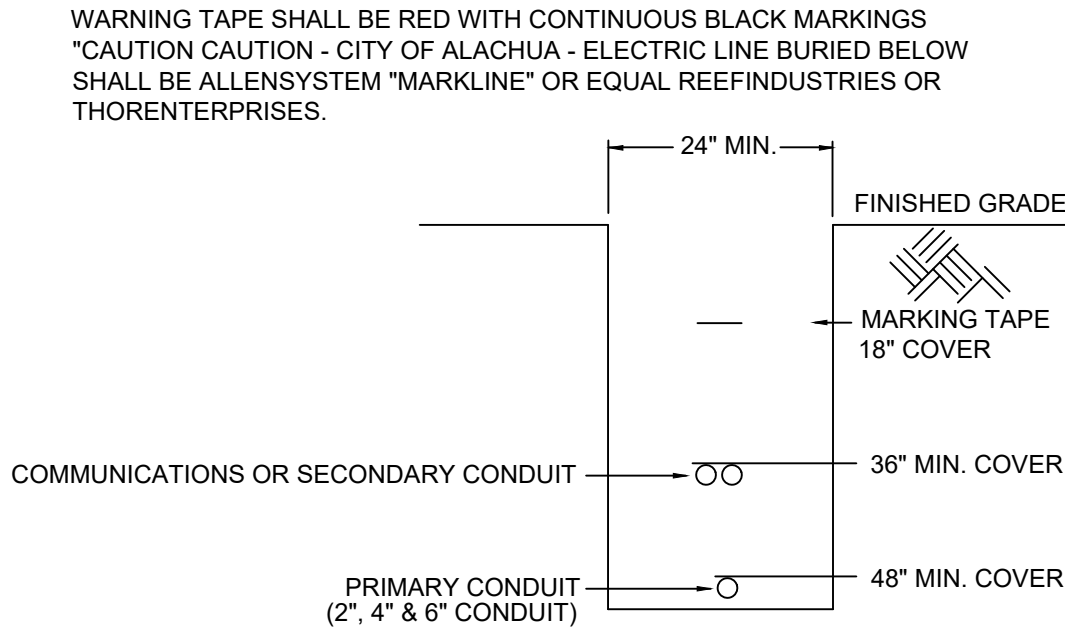
THE DRAWINGS ARE IN PART DIAGRAMMATIC AND ARE INTENDED TO CONVEY THE SCOPE OF THE WORK, INDICATE THE GENERAL LOCATION AND ARRANGEMENT OF CONDUIT AND PADS OR BASES, AND THE LIKE. IT IS NOT INTENDED TO SHOW IN MINUTE DETAIL EVERY AND ALL ACCESSORIES REQUIRED AT EACH LOCATION FOR THE EXECUTION OF THE WORK, BUT IT IS INTENDED THAT ALL ACCESSORIES REQUIRED FOR A COMPLETE SYSTEM BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

EXAMINE ALL DRAWINGS FOR COORDINATION AND ALLOCATION OF SPACE AND AVOID INTERFERENCE WITH SURROUNDS. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS PRACTICAL IN PERFORMING THE WORK. DISCREPANCIES BETWEEN THE ELECTRICAL CONDUIT SYSTEM AND WORK OF OTHER TRADES SHALL BE COORDINATED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER AND AS REQUIRED BY FIELD CONDITIONS.

DISCREPANCIES DISCOVERED DURING THE BID PROCESS SHALL BE REFERRED TO THE ENGINEER PRIOR TO SUBMITTING A BID. THE ENGINEER WILL ISSUE INSTRUCTIONS BY ADDENDUM WHEN NECESSARY. INTERPRETATION OF THE DRAWINGS WILL BE BY THE ENGINEER.

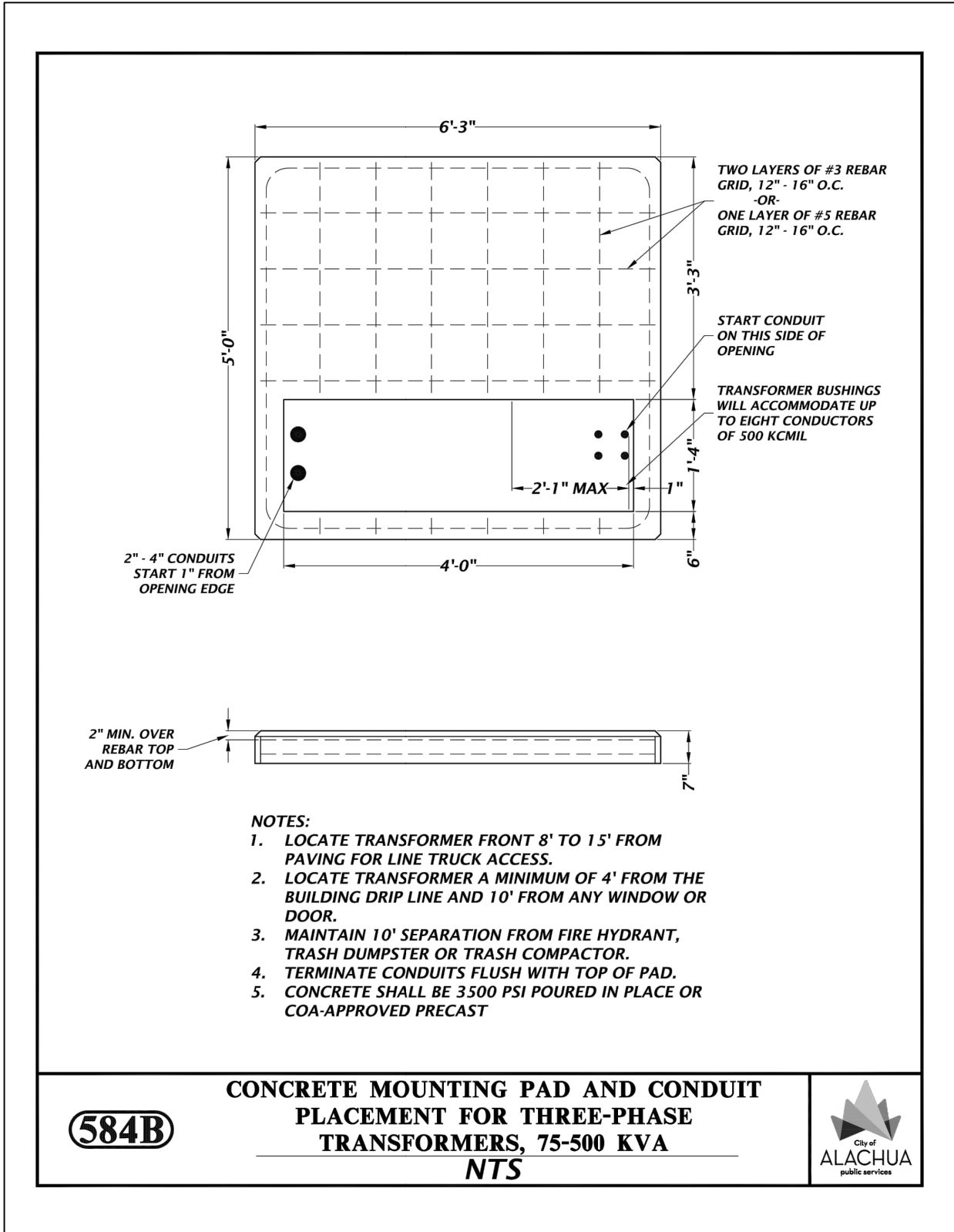
CHANGES FROM THE DRAWINGS THAT ARE NECESSARY TO MAKE WORK CONFORM TO FIELD CONDITIONS, TO FIT WORK OF OTHER TRADES, OR TO RULES OF BODIES HAVING JURISDICTION, WILL BE MADE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT. IN CASE OF DISPUTE, THE ENGINEER WILL RENDER A DECISION ON HOW TO PRECEED.

THE WORK SHALL COMPLY WITH ALL LEGALLY REQUIRED CODES AND STANDARDS, INCLUDING: NFPA 70, NATIONAL ELECTRICAL CODE LATEST EDITION
NECA STANDARD OF INSTALLATION
NFPA 72 LATEST ADOPTED REVISION
FLORIDA BUILDING CODE LATEST REVISIONS.
NFPA 101 LATEST ADOPTED REVISION
ADA LATEST ADOPTED REVISION
CITY OF ALACHUA UTILITY STANDARDS AND POLICIES.
UNDERWRITER'S LABORATORY STANDARDS (UL).
CITY OF ALACHUA CODE OF ORDINANCES
ILLUMINATION ENGINEERING SOCIETY HANDBOOK 10TH EDITION
OTHER APPLICABLE CODES AND STANDARDS THAT APPLY TO THIS TYPE OF CONSTRUCTION.



TYPICAL CONDUIT TRENCH DETAIL

NOT TO SCALE



ELECTRICAL UTILITIES LEGEND

SC	EXISTING PRIMARY SECTIONALIZING CABINET VOLTAGE LOOP - WILL BE SOURCE FOR OUT PARCELS.
3 ϕ TRANSFORMER ON CONCRETE PAD	
3-1/0 P	3-1/0 AL UTILITY PRIMARY CABLE IN 4" PVC AT 48" MIN. COVER
#8	2 #8 AND #8 CU EGC SECONDARY CONDUCTORS IN 1.25"AT 36" MIN. OR AS CODE ALLOWS FOR PRIVATE LIGHTING
10"	SMALL BURIED WIRE ENCLOSURE, APPROXIMATELY 10" DIA. X 19" DEEP, (TYPICALLY FOR STREETLIGHTING FEEDS - INCLUDED BUT NOT SHOWN ON ALL LIGHTS)
SEE LIGHTING DETAIL SHEET FOR LIGHTING LEGEND FOR LUMINAIRE DESCRIPTION AND SPECS.	

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AL	ALUMINUM
AWG	AMERICAN WIRE GAUGE
BIL	BASIC INSULATION LEVEL
BUG	BACK, UP AND GLARE RATING
C	CONDUIT
COA	CITY OF ALACHUA
CU	COPPER
EGC	EQUIPMENT GROUNDING CONDUCTOR
FC	FOOTCANDLE
GRD	GROUND
IES	ILLUMINATING ENGINEERING SOCIETY
KCMIL	THOUSANDS OF CIRCULAR MILS
KV	KILOVOLT
LED	LIGHT EMITTING DIODE
SE	LARGE BURIED WIRE ENCLOSURE
LDR	LAND DEVELOPMENT REGULATIONS
MAX	MAXIMUM
MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
MIN	MINIMUM
NEC	NATIONAL ELECTRIC CODE
P	PROPOSED
P-E	PROPOSED ELECTRIC
PSI	POUNDS PER SQUARE INCH
PUE	PUBLIC UTILITY EASEMENT
ROW	RIGHT OF WAY
RP	RECOMMENDED PRACTICE
S/L	STREET LIGHT
10"	SMALL BURIED WIRE ENCLOSURE
SC	SECTIONALIZING CABINET
TPX	TRIPLEX
TX	TRANSFORMER
TYP	TYPICAL
UD	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UJB	UNDERGROUND JUNCTION BOX
URD	UNDERGROUND DISTRIBUTION

LIGHTING PLAN PREPARED BY WILLIAM T. STORMANT, P.E.

SEAL

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www.chw-inc.com

est. 1988
FLORIDA
CA-5075

CHW
Professional Consultants

SCALE: N/A
REF. SCALE
BASED ON
ORIGINAL DRAWING
0 1' 2'
DO NOT SCALE
THIS SHEET. ADJUST
SCALES ACCORDINGLY.

CONSTRUCTION/REV. REVISIONS:
SUBMITTALS:
CLIENT: CHW
PROJECT: ALACHUA, FL
ALACHUA, FL
SHEET TITLE: SPECIFICATION LEGEND
AND DETAILS
REVISIONS:
W. Stormant
DESIGNED:
W. Stormant
QUALITY CONTROL:
W. Stormant
PROJECT NUMBER:
21-0395
SHEET NO.:
P4

FLOOR PLAN GENERAL NOTES

- A. FINISHES SHALL BE PER FINISH SCHEDULE ON SHEET A-701
- B. CERTIFICATE OF OCCUPANCY: G.C. IS RESPONSIBLE FOR THE "CERTIFICATE OF OCCUPANCY". CERTIFICATE TO BE FRAMED AND MOUNTED IN THE SHOWROOM. IF MUNICIPALITY DOES NOT ISSUE A CoFO, IT IS THE RESPONSIBILITY OF THE G.C. TO GET A LETTER FROM THE MUNICIPALITY STATING AS SUCH ON CITY/COUNTY LETTERHEAD AND THAT LETTER IS TO BE FRAMED AND MOUNTED IN SHOWROOM.
- C. KNOX BOX NOTE: IF A KNOX BOX ENTRY SYSTEM IS REQUIRED BY THE FIRE MARSHAL, CONTACT THE FIRE MARSHAL FOR REQUIRED ORDER FORM. PROVIDE & INSTALL PER MFR'S SPECIFICATIONS: KNOX BOX CONTACT - 866-625-4563
- D. ALL FRAMED AND FURRED OUT PARTITIONS ARE DIMENSIONED TO ROOM FACE OF GWB OR MASONRY.
- E. ALL NON-FURRED MASONRY WALL AND PARTITIONS ARE DIMENSIONED TO FACE OF MASONRY.
- F. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL CONSTRUCTION IS IN COMPLIANCE WITH ALL LOCAL, STATE AND NATIONAL CODES GOVERNING THE CONSTRUCTION AND WITH THE AMERICANS WITH DISABILITIES ACT. THE GENERAL CONTRACTOR SHALL COORDINATE THE VARIOUS CONSTRUCTION DOCUMENTS FOR THE PROJECT. IF CONFLICTS ARE FOUND, THE GENERAL CONTRACTOR SHALL RESOLVE THE CONFLICTS PRIOR TO PROCEEDING.
- G. SEE SHEET A-700 FOR WALL TYPES.
- H. GENERAL CONTRACTOR TO PROVIDE (7) TOTAL FIRE EXTINGUISHERS AS SHOWN IN PLAN. SIX (6) FIRE EXTINGUISHERS TO BE PLACED ON MAIN LEVEL AND ONE (1) FIRE EXTINGUISHER TO BE PLACED ADJACENT TO STAIR ON UPPER RACKING LEVEL. PROVIDE WALL BRACKETS AND MOUNT CONTROLS AT 48" AFF MAX. PROVIDE "FIRE EXTINGUISHER" SIGNS ON WALL DIRECTLY ABOVE EACH UNIT. THE GENERAL CONTRACTOR SHALL HAVE EXTINGUISHERS INSPECTED AND TAGGED. VERIFY LOCATION WITH LOCAL FIRE AHJ BEFORE FINAL INSTALL. RE: SHEET A-601. FIRE EXTINGUISHER TO BE DRY CHEMICAL, MONOAMMONIUM PHOSPHATE, 10LB, 4A:60B:C UL RATING. MANUF: KIDDIE, MODEL #PRO10MPO

FLOOR PLAN KEYNOTES

- 1 NOT USED
- 2 PASS THRU W/ PLEXIGLAS FLAP & STAINLESS STEEL PIANO HINGE. RE: DETAIL 5/A-300
- 3 PROVIDE 4' X 8' 3/4" PLYWOOD MOUNTING BOARD FOR ELECTRICAL PANELS
- 4 SALES COUNTER. RE: DETAIL 1/A-600
- 5 TV UNIT - RE: ELECTRICAL DRAWINGS FOR POWER/STUB UP LOCATION.
- 6 6'-8" HIGH 6" CMU WALL - PROVIDE ROUNDED PARGE AT TOP OF WALL. WALL TO BE BUILT AFTER STORAGE RACK SYSTEM IS INSTALLED. RE: STRUCTURAL DRAWINGS FOR ADDITIONAL INFO. RE: DETAIL 11/A-301 FOR PAINT PATTERN
- 7 NOT USED
- 8 PROVIDE STUD POST AND BLOCKING @ 8' A.F.F. UP TO ROOF HATCH FOR UPPER LEVEL ROOF ACCESS LADDER. RE: DETAILS ON SHEET A-503.
- 9 PROVIDE TACTILE EXIT SIGN AT DOOR. RE: DETAIL 2/A-100
- 10 DBL. (2) 358 SW16 POST UP TO BOX HEADER
- 11 SOFFIT ABOVE. RE: 2/A-400
- 12 NOT USED
- 13 AIR COMPRESSOR
- 14 OIL TANK
- 15 SERVICE MANAGER COUNTER
- 16 ELECTRICAL METER
- 17 GAS METER
- 18 FRAME @ WALL PARTITION TO BE 5" WIDE TO MATCH WIDTH OF INTERIOR WALL. RE: 5/A-502.
- 19 IT CABINET (ABOVE, SHOWN DASHED). TO BE PROVIDED & INSTALLED BY OWNER.
- 20 EXPOSED ENDS OF SPLIT FACE BLOCK SHALL HAVE SPLIT FACE ENDS (TYP.)
- MICROWAVE & REFRIGERATOR TO BE LOCATED ON RACKING SYSTEM, WHICH IS PROVIDED BY OTHERS. MICROWAVE & REFRIGERATOR OPERABLE PARTS ARE TO BE LOCATED WITHIN 15" AFF TO 48" AFF AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX.
- 21
- WATER COOLER BY OTHERS. WATER COOLER OPERABLE PARTS ARE TO BE LOCATED WITHIN 15" AFF TO 48" AFF AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAX.
- 22

LEGEND

- MASONRY WALLS
- GWB WALLS
- DOOR NO.
- WALL TYPE
- FIRE EXTINGUISHER

ADA TACTILE EXIT SIGN- 4"x3" ACCESSIBLE EXIT SIGNS WITH TACTILE TEXT AND GRADE 2 BRAILLE. MOUNT @ 60" OC AFF. SIGNS SHALL BE LOCATED PER SECTION 1013.4 OF IBC.

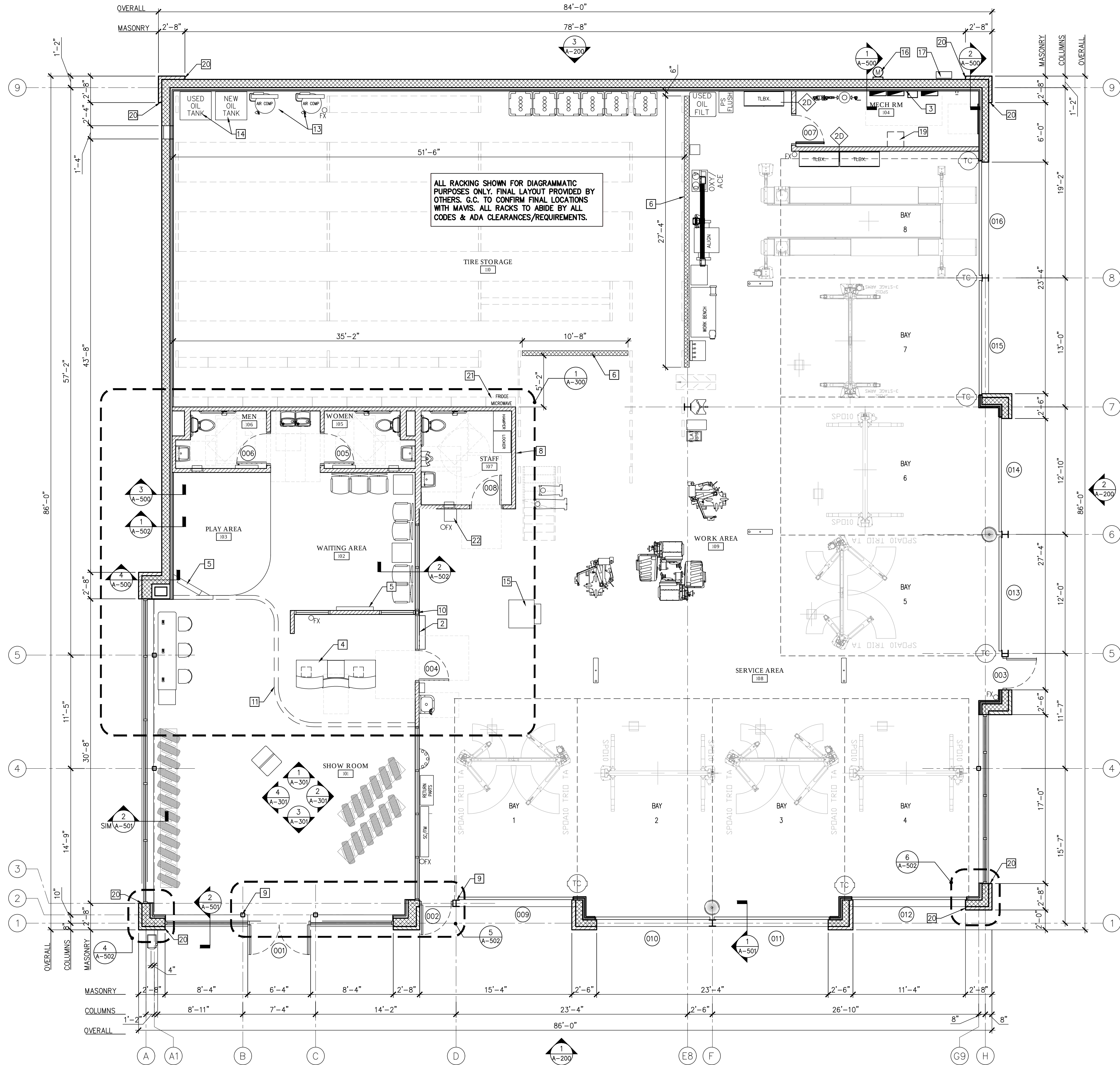
EXIT

2 SIGNAGE ELEVATION

SCALE: NTS

1 FLOOR PLAN

SCALE: 3/16" = 1'-0"



Larson Design Group
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(877) 323-6603

CONCEPT COMPANIES, INC.
1449 SW 74TH DRIVE
SUITE 200
GAINESVILLE, FL 32607

CLIENT

SEAL FEB 28 2022

PLANNING REVIEW
COMMENTS

02/28/2022 DATE
MARK



MAVIS TIRES & BRAKES #2012 - ALACHUA, FL
16113 NW US HWY 441, ALACHUA, FL.

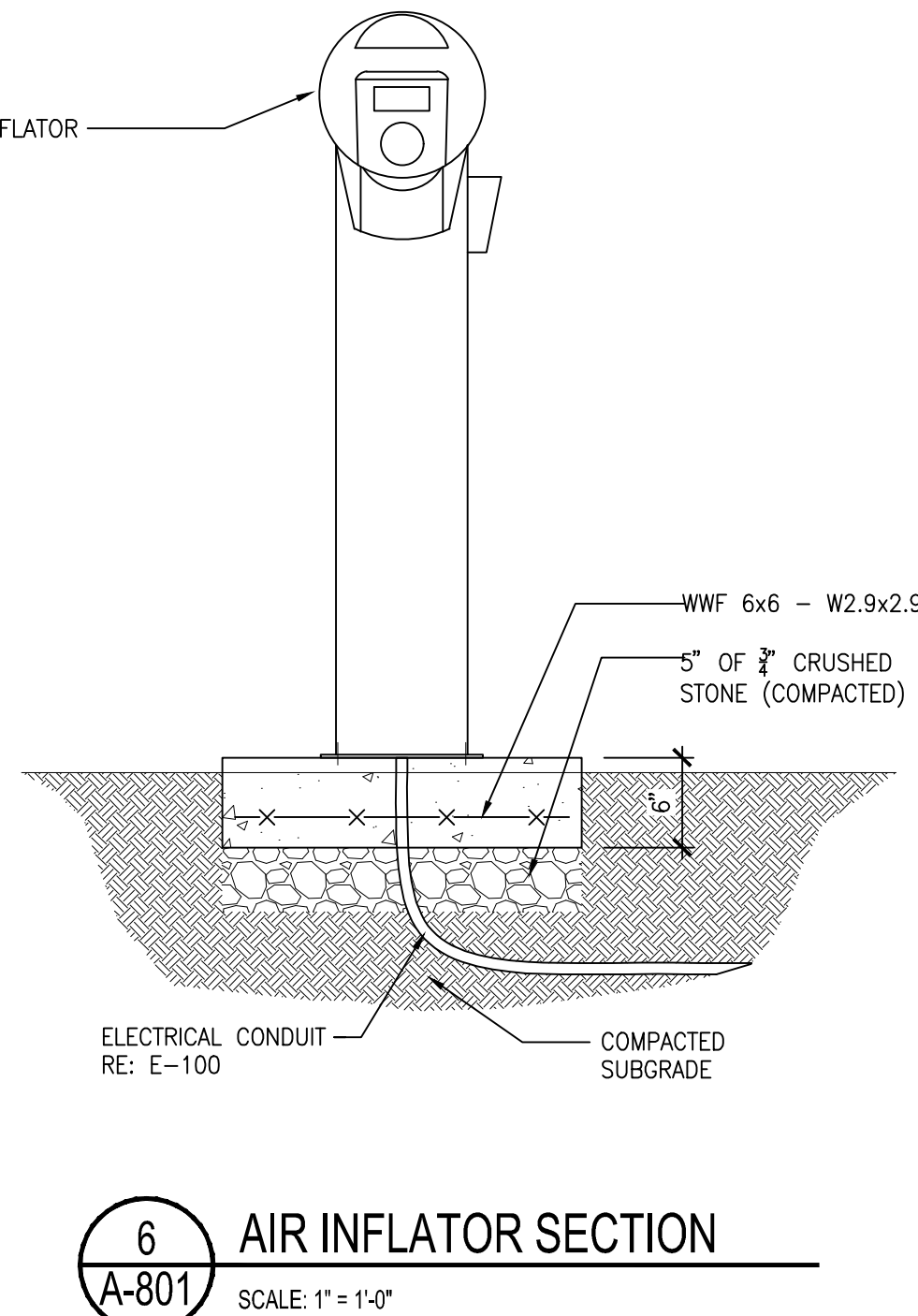
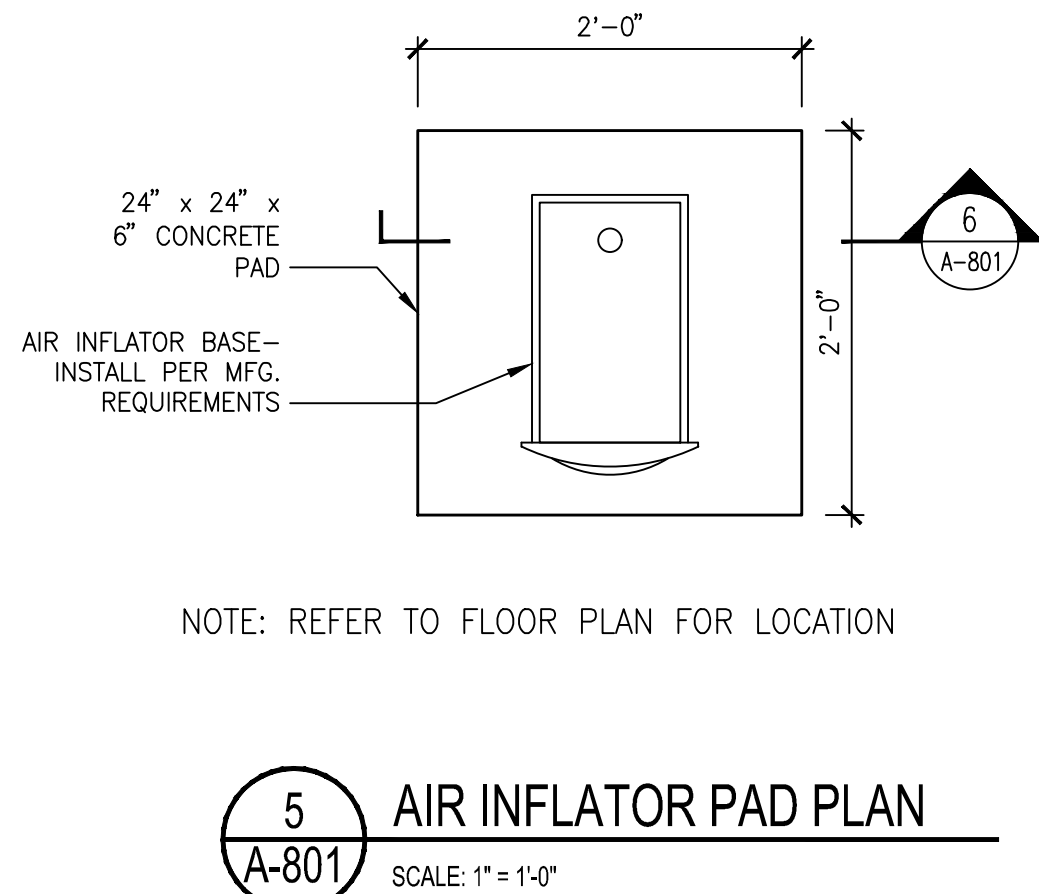
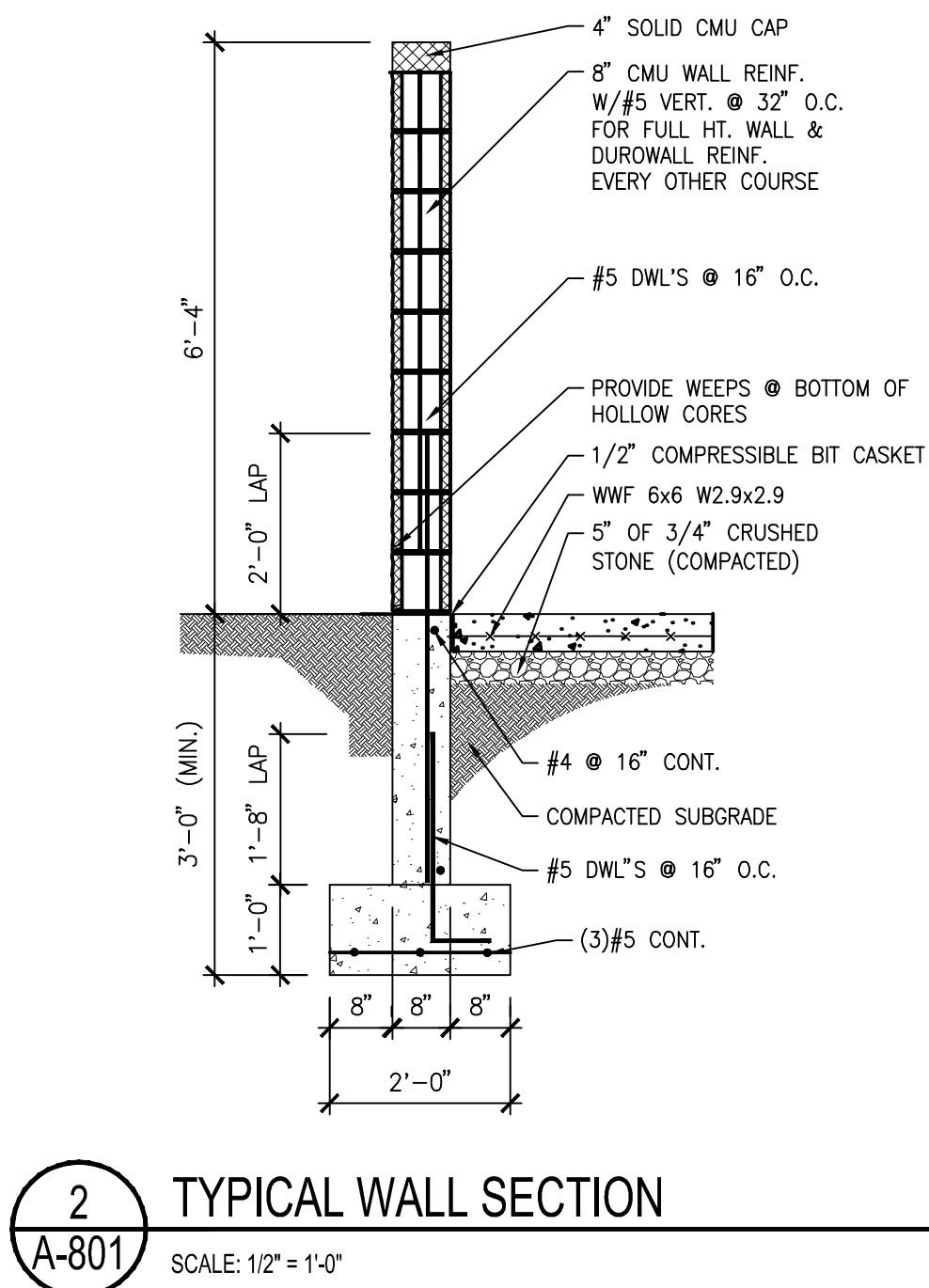
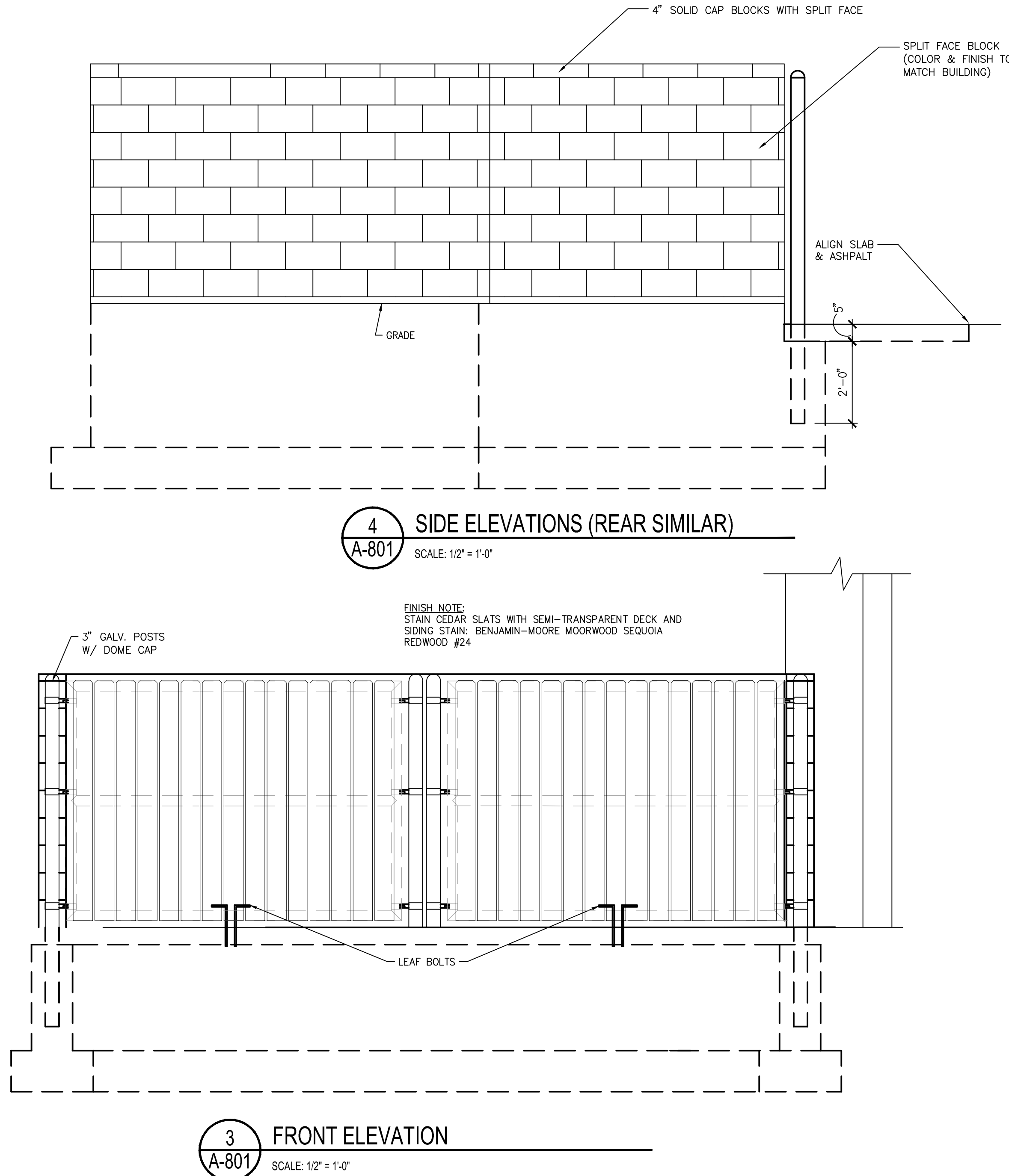
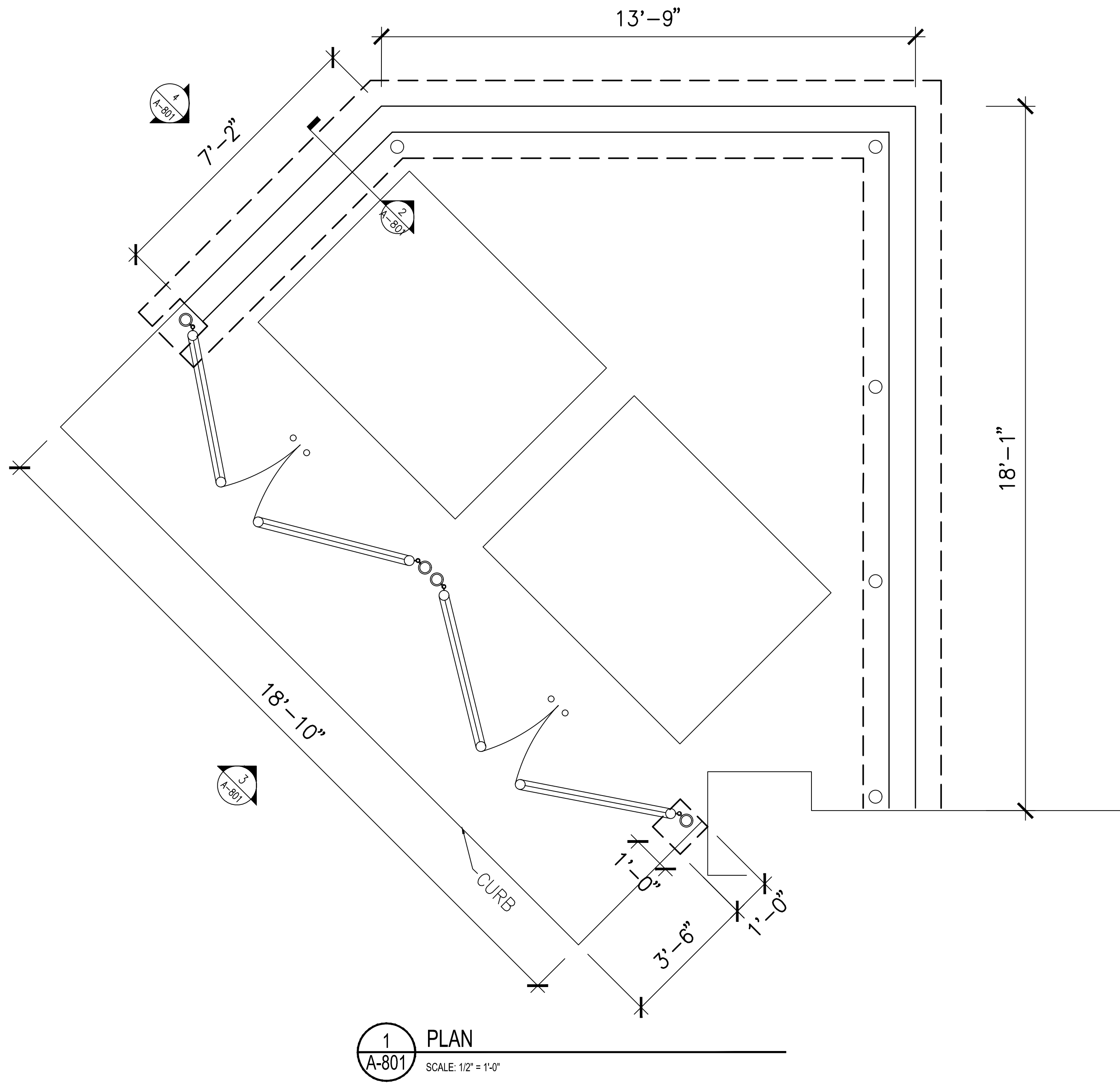
Project No.: 13001-001

Sheet No.:

A-100

BASED ON 8-BAY SQUARE PROTOTYPE DATED AUG 15 2021

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SEAL APR 28 2022

MARK	DATE	PLANNING REVIEW	COMMENTS
02/28/2022			

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16113 NW US HWY 441, ALACHUA, FL.

DUMPSTER ENCLOSURE & AIR INFLATOR DETAILS

Project No.: 13001-001

Sheet No.:

A-801