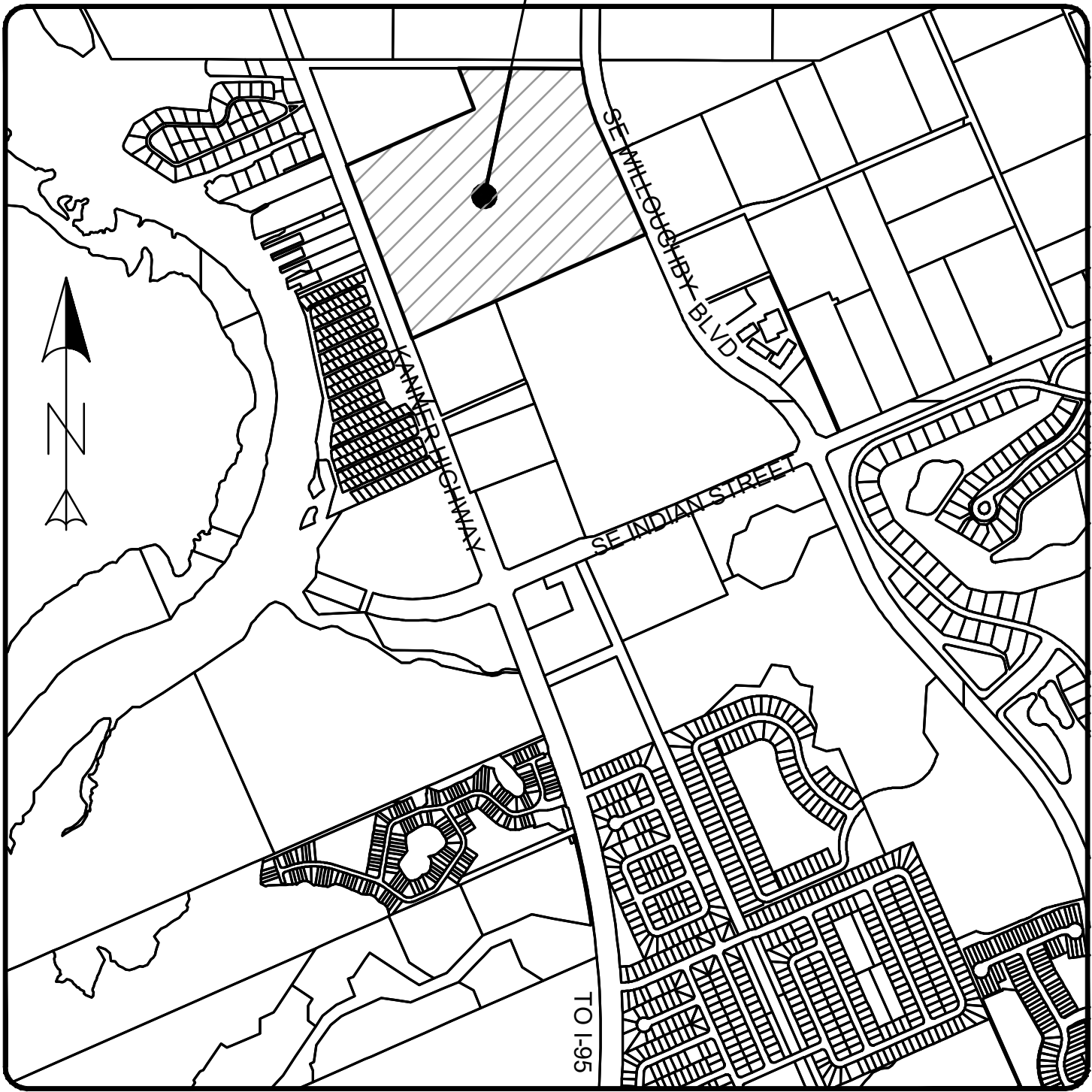


PRELIMINARY ENGINEERING PLANS AND SPECIFICATIONS
FOR
KANNER CPUD
SECTION 16, TOWNSHIP 38S, RANGE41E
STUART, FLORIDA

LOCATION MAP



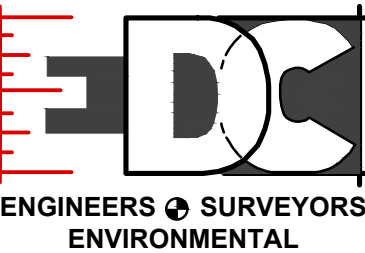
Project Location



VICINITY MAP

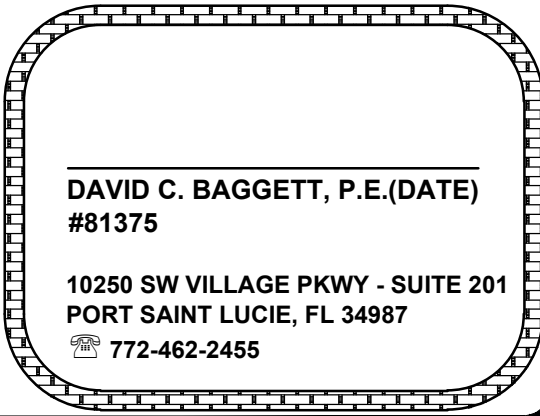
INDEX OF SHEETS

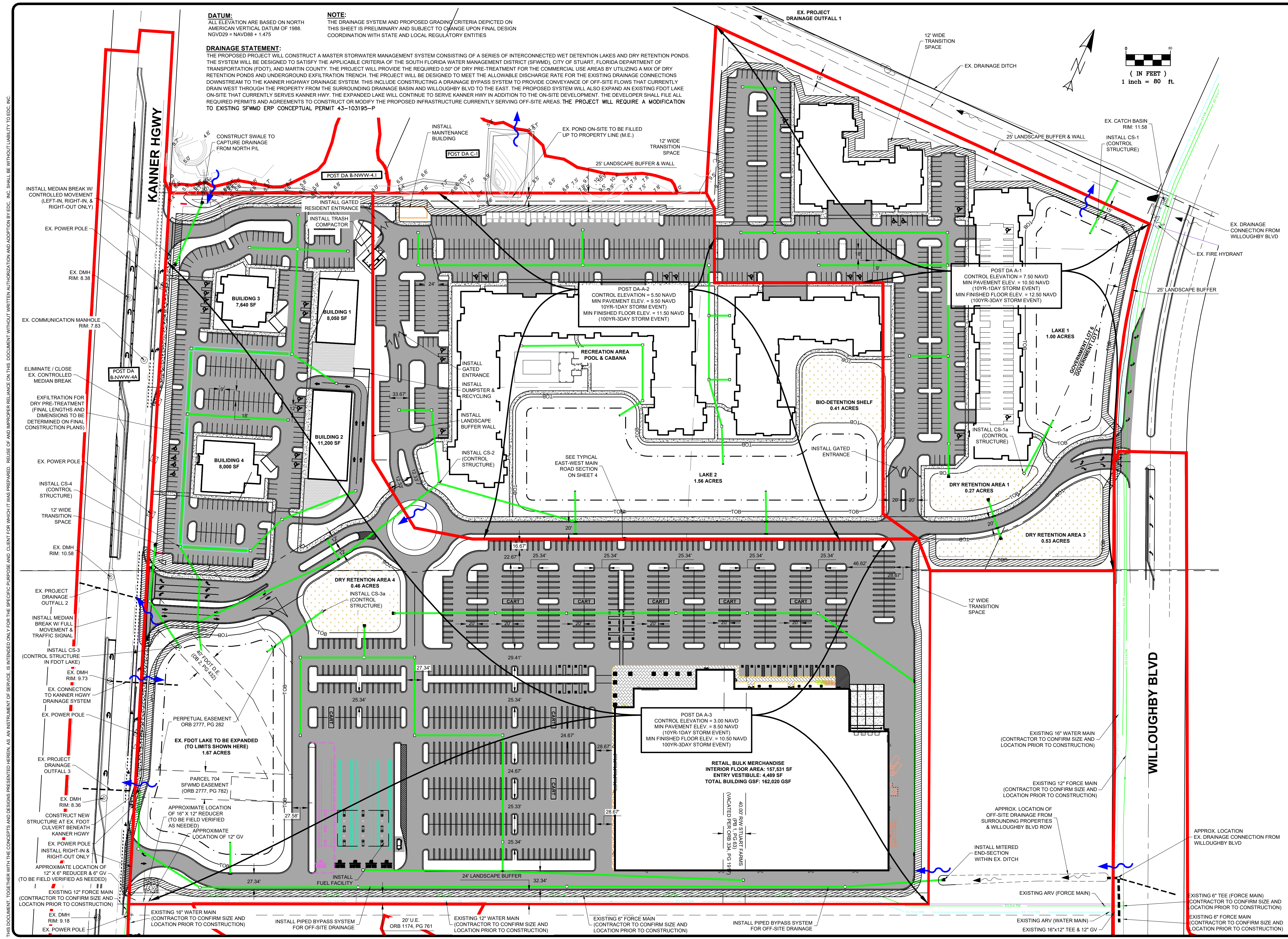
1. COVER
2. OVERALL PAVING, GRADING, & DRAINAGE PLAN
3. OVERALL UTILITY PLAN
4. PAVING, GRADING & DRAINAGE DETAILS
5. UTILITY DETAILS
6. UTILITY DETAILS
7. UTILITY DETAILS
8. UTILITY DETAILS
9. UTILITY DETAILS



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10250 SW VILLAGE PARKWAY - SUITE 201
PORT SAINT LUCIE, FL 34987
772-462-2455
www.edc-inc.com

F.B.P.E. CERTIFICATE OF AUTHORIZATION 8935
L.B. CERTIFICATE OF AUTHORIZATION 8999



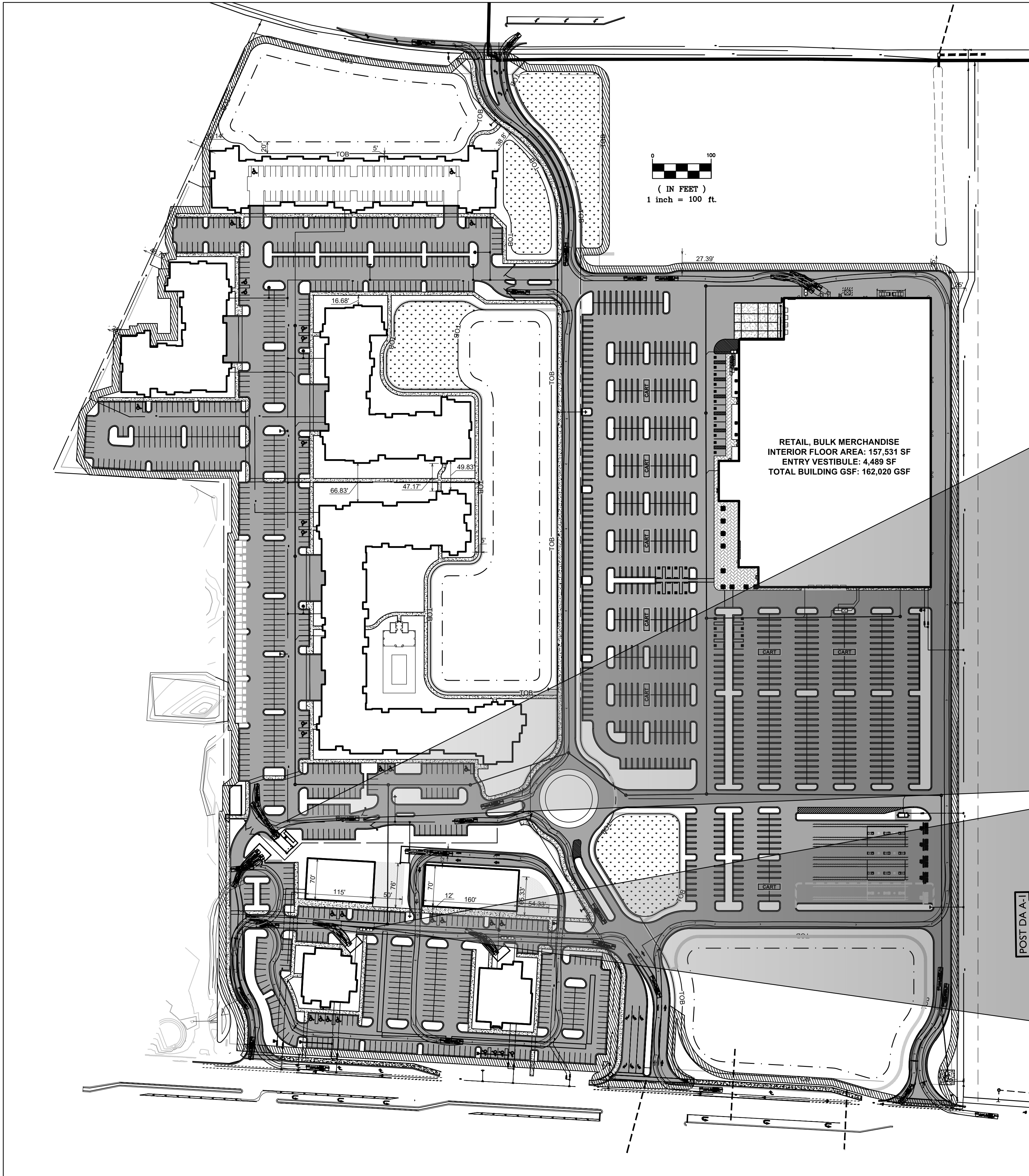


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4 OF 9





General Data

Name: Rear-Load Garbage Truck

Library: NCHRP REPORT 659 (US)

Region: North America

Type: Garbage Truck 2

Class: Refuse Collection

Lock to Lock Time: 6.0 sec.

Steering Lock Angle: 27.4 deg.

Creation Units: feet

Displayed Data

☒ Plan View Data ☐ Profile View Data

Display Units: feet

Overall Vehicle Length: 38.08 ft

Current Part Data

Tractor: Full

Width: 8.00

Front Axle Group

Axes: 1

Wheels: 2

Track: 8.00 ft

Steering: Front Only

38.08

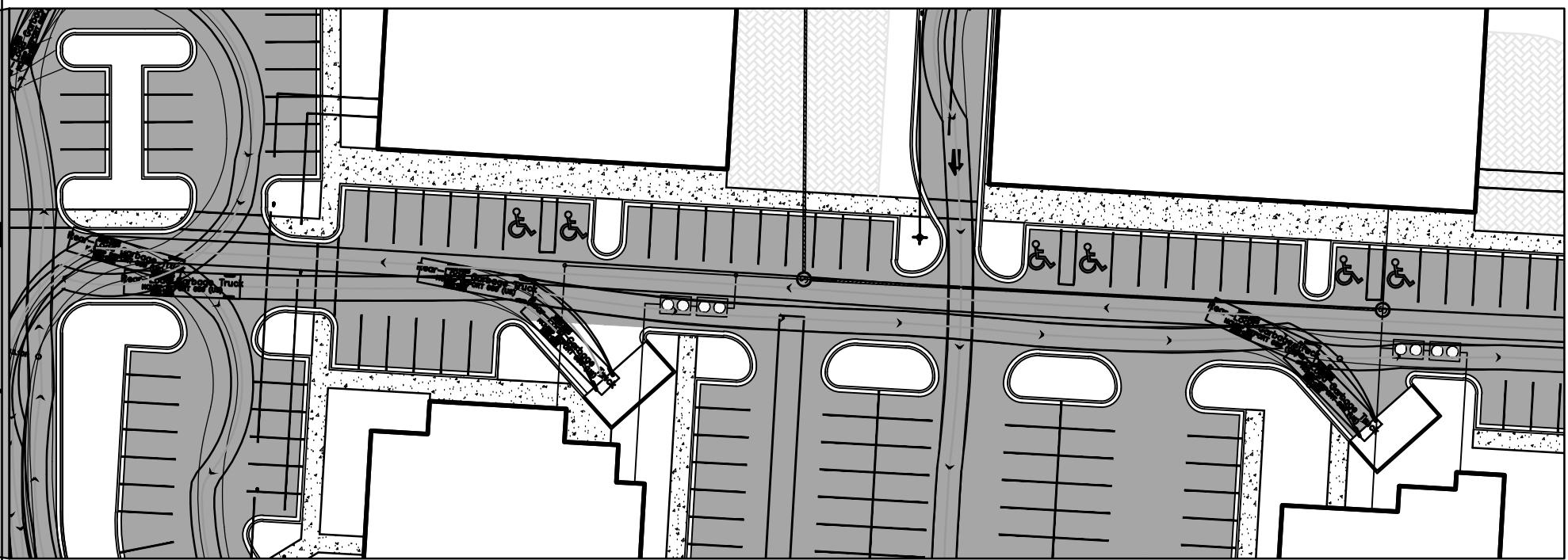
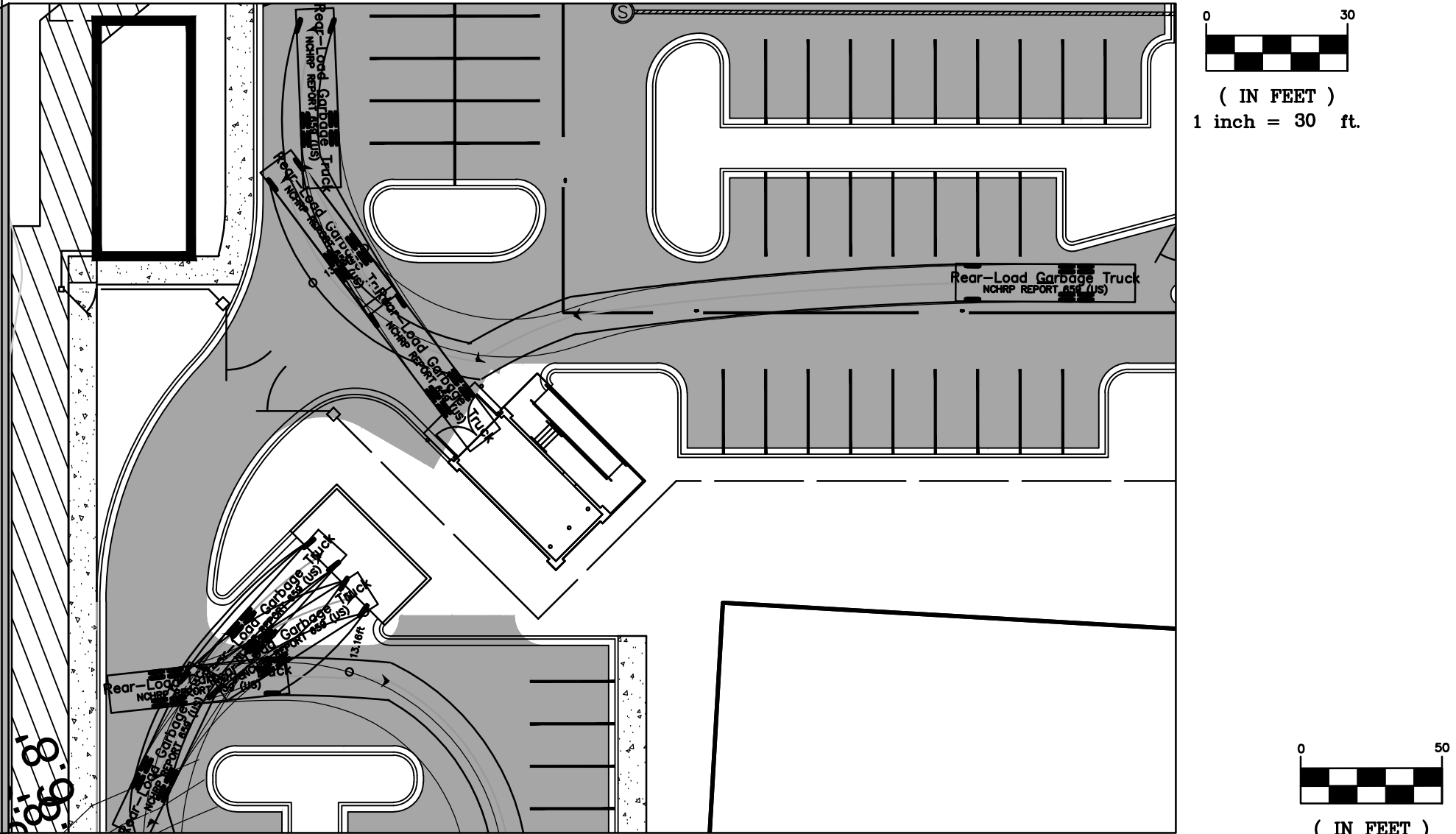
3.58 22.00 0.00

Rear Axle Group

Axes: 2

Wheels: 4

Track: 8.00 ft



LEGEND			
	EXISTING METER		
	PROPOSED SIGN		
	PROPOSED MITERED END SECTION		
	HANDICAP PARKING SYMBOL		
	EXISTING CONCRETE		
	EXISTING PAVEMENT		
	PROPOSED PAVEMENT		
	PROPOSED CONCRETE		

ENGINEERS & SURVEYORS

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DESIGNED BY
JUL
DRAWN BY
FILE NAME
A-TURN GARBAGE TRUCK
LAYOUT
AS SHOWN
SCALE
19MARCH2021
DATE

REVISION COMMENTS
DATE

KANNER CPUD

GARBAGE TRUCK TURNING EXHIBIT

FLORIDA

STUART

(DATE)

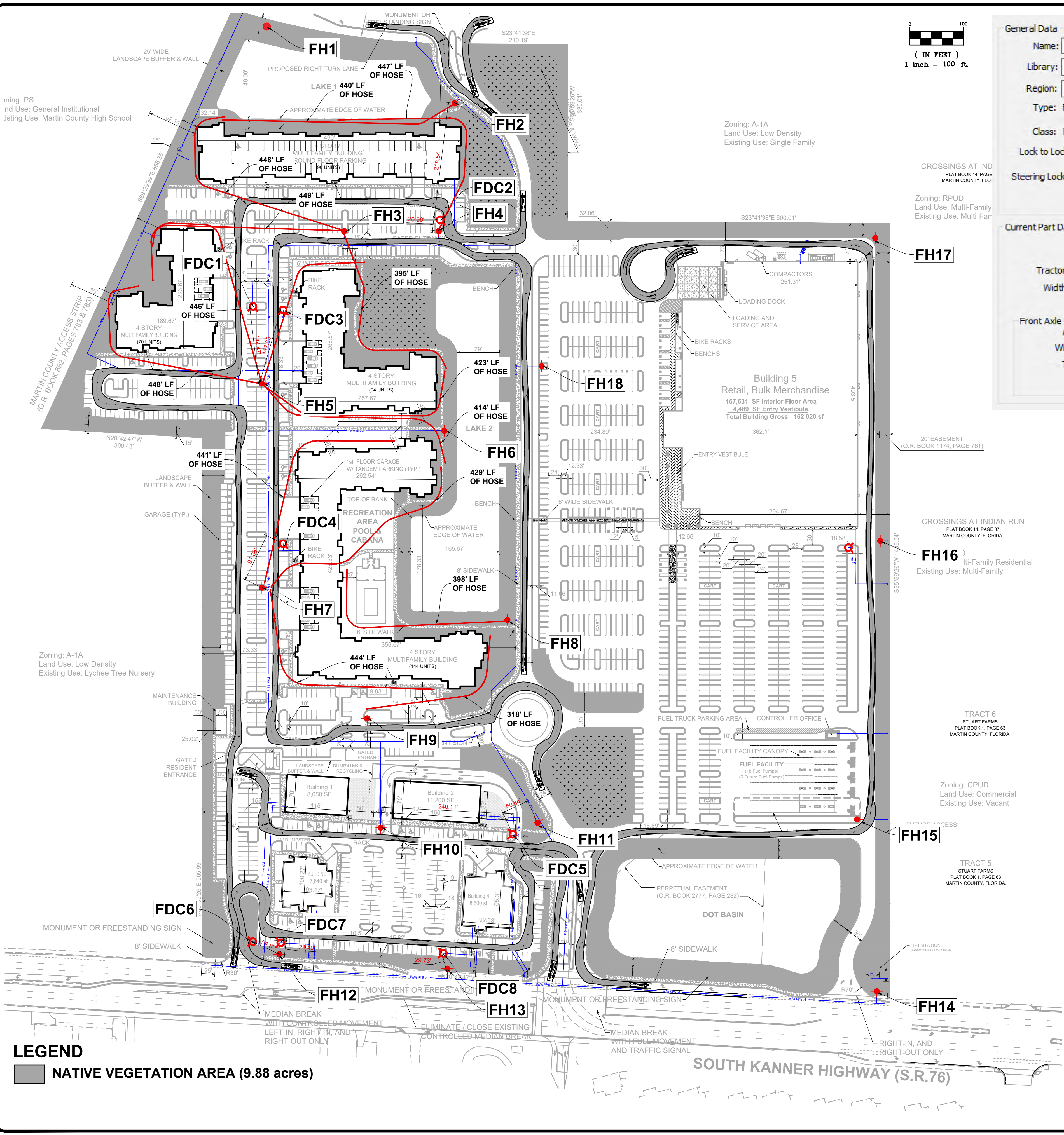
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20-313

01 OF 01

Z:\EDC-2020\20-313 - Corcoo Stuart - Kanner Highway Engineering\AutoCAD\DWG\20-313 - Corcoo Master Site Plans Auto Turn.dwg FIRE PROTECTION PLAN, 4/20/2021 4:50:09 PM, James EDC, Inc.

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADOPTION BY EDC, INC. SHALL BE WITHOUT LIABILITY TO EDC, INC.



LEGEND
NATIVE VEGETATION AREA (9.88 acres)

General Data

Name: CITY OF STUART-FIRE

Library: Custom

Region: North America

Type: Fire Truck Pumper

Class: Emergency Vehicle

Lock to Lock Time: 6.0 sec.

Steering Lock Angle: 45.0 deg.

Displayed Data

Plan View Data

Creation Units: feet

Overall Vehicle Length: 38.00 ft

Current Part Data

Tractor: Full

Width: 9.60

Steering: Front Only

Front Axle Group

Axes: 1

Wheels: 2

Track: 6.91 ft

Rear Axle Group

Axes: 1

Wheels: 4

Track: 6.91 ft



LEGEND			
	EXISTING METER		PROPOSED FDC
	PROPOSED SIGN		PROPOSED FIRE HYDRANT
	PROPOSED MITERED END SECTION		HOSE AS THE LINE LIES
	HANDICAP PARKING SYMBOL		
	EXISTING CONCRETE		
	EXISTING PAVEMENT		
	PROPOSED PAVEMENT		
	PROPOSED CONCRETE		

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DESIGNED BY	JUL
DRAWN BY	JUL
CHECKED BY	JUL
FILE NAME	20-313
LAYOUT	AS SHOWN
SCALE	1"=100'
DATE	19MARCH2021

KANNER CPUD

FLORIDA

STUART

FIRE PROTECTION & ACCESS EXHIBIT

DAVID C. BAGGETT, P.E.(DATE)

#81375

10250 SW VILLAGE PARKWAY - SUITE 201
PORT SAINT LUCIE, FL 34987
772-462-2455

20-313

01 OF 01

ELECTRICAL SHEET INDEX	
E0.1	ELECTRICAL NOTES, LEGEND & INDEX
E1.1	SITE PHOTOMETRIC PLAN
E1.2	SITE PHOTOMETRIC PLAN
E1.3	SITE PHOTOMETRIC PLAN
E1.4	SITE PHOTOMETRIC PLAN
E1.5	SITE PHOTOMETRIC PLAN
E1.6	SITE PHOTOMETRIC PLAN
E1.7	SITE PHOTOMETRIC PLAN
E1.8	SITE PHOTOMETRIC PLAN
E1.9	SITE PHOTOMETRIC PLAN
E1.10	SITE PHOTOMETRIC PLAN
E1.11	SITE PHOTOMETRIC PLAN

LIGHTING FIXTURE SCHEDULE										
TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	Qty	Type	Total Wattage	DIMMING	VOLTS	MOUNTING	REMARKS
P	VISIONARE LIGHTING	EA-24-40-35-U-D	SINGLE HEAD LED SITE LUMINAIRE FOR COSTCO SITE, MOUNTED 33.5' AFG	NCL	LED	421	DYNA-DIMMER ONBOARD	PER PLAN	POLE	1,2,3
P1	VISIONARE LIGHTING	B5100LED-2HT-LO-WT35-120-27TV	SINGLE HEAD LED SITE LUMINAIRE FOR COSTCO SITE, MOUNTED 33.5' AFG	NCL	LED	353	DYNA-DIMMER ONBOARD	PER PLAN	POLE	1,2,3
P2	VISIONARE LIGHTING	486290Z	DOUBLE HEAD LED SITE LUMINAIRE FOR COSTCO SITE, MOUNTED 33.5' AFG	NCL	LED	706	DYNA-DIMMER ONBOARD	PER PLAN	POLE	1,2,3
P3	VISIONARE LIGHTING	632282-PR	TRIPLE HEAD LED SITE LUMINAIRE FOR COSTCO SITE, MOUNTED 33.5' AFG	NCL	LED	1059	DYNA-DIMMER ONBOARD	PER PLAN	POLE	1,2,3
P4	VISIONARE LIGHTING	PEH-1-A-T	QUAD HEAD LED SITE LUMINAIRE FOR COSTCO SITE, MOUNTED 33.5' AFG	NCL	LED	1412	DYNA-DIMMER ONBOARD	PER PLAN	POLE	1,2,3
P5	VISIONARE LIGHTING	V44-R-SA-T	SINGLE HEAD SITE LUMINAIRE FOR COSTCO SITE, MOUNTED 28' AFG	NCL	LED	267	DYNA-DIMMER ONBOARD	PER PLAN	POLE	1,2,3
W	VISIONARE LIGHTING	ALP2-100-40-S-U-SLA-D-ALP2-S-BLS	SINGLE WALL MOUNT LED SITE LUMINAIRE FOR COSTCO SITE, MOUNTED 20' AFG	NCL	LED	177	DYNA-DIMMER ONBOARD	PER PLAN	WALL	1,2
SA	VISIONARE LIGHTING	EA-24-40-35-U-D	SINGLE HEAD LED SITE LUMINAIRE ON CONCRETE POLE, MOUNTED 28' AFG	NCL	LED	267	DYNA-DIMMER ONBOARD	PER PLAN	POLE	1,2,4
SB	VISIONARE LIGHTING	B5100LED-2HT-LO-WT35-120-27TV	SINGLE HEAD LED SITE LUMINAIRE ON CONCRETE POLE, MOUNTED 28' AFG	NCL	LED	266	DYNA-DIMMER ONBOARD	PER PLAN	POLE	1,2,4
SC	VISIONARE LIGHTING	486290Z	SINGLE HEAD LED SITE LUMINAIRE ON CONCRETE POLE, MOUNTED 28' AFG	NCL	LED	171	DYNA-DIMMER ONBOARD	PER PLAN	POLE	1,2,4
LIGHTING SCHEDULE NOTES:										
1. PROVIDE SUBMITTALS FOR ARCHITECT/ENGINEER REVIEW PRIOR TO ORDERING. NO SUBSTITUTIONS ALLOWED.										
2. PROVIDE MOTOR SENSOR AND DYNA-DIMMER FOR EACH LUMINAIRE TO AUTOMATICALLY DIM EACH TO 50% NO LATER THAN MIDNIGHT TO 6AM, 1-HOUR AFTER BEFORE CLOSING/OPENING, OR WHEN NO ACTIVITY FOR 15 MINUTES, PER 7TH EDITION FBC, C405-2.6.										
3. POLE MOUNT PER COSTCO POLE DETAIL. PROVIDE CERTIFIED WIND LOAD CALCULATION TO MEET 170MPH, SIGNED AND SEALED BY FLORIDA REGISTERED ENGINEER.										
4. POLE MOUNT ON DIRECT BURIAL CONCRETE POLE. PROVIDE CERTIFIED WIND LOAD CALCULATION TO MEET 170MPH, SIGNED AND SEALED BY FLORIDA REGISTERED ENGINEER.										

Luminaire Schedule										
Project: COSTCO STUART SITE: 02/24/2021										
Symbol	Qty	Label	(MANUFACT)	Description	Air Lum. Lumens	LLF	Lum. Watts	Total Watts		
	4	P		Visionare Lighting LLC	VLX-1-T3-100LC-7-4K-UNV	POLE MOUNT 33.5' AFG	48616	0.000	421	1884
	1	P1		Visionare Lighting LLC	VLX-1-T5W-160LC-7-4K-UNV	POLE MOUNT 33.5' AFG	43091	0.000	353	353
	20	P2		Visionare Lighting LLC	VLX-1-T5W-160LC-7-4K-UNV	POLE MOUNT 33.5' AFG	86162	0.000	353	14120
	6	P3		Visionare Lighting LLC	VLX-1-T5W-160LC-7-4K-UNV	POLE MOUNT 33.5' AFG	120573	0.000	353	6364
	2	P4		Visionare Lighting LLC	VLX-1-T5W-160LC-7-4K-UNV	POLE MOUNT 33.5' AFG	172364	0.000	353	2624
	13	P5		Visionare Lighting LLC	VLX-1-T2-160LC-5-4K-UNV-CLS	POLE MOUNT 28' AFG	22774	0.000	267	3471
	5	W		Visionare Lighting LLC	VWX-1-T4-80LC-7-4K-UNV	WALL MOUNT 20' AFG	20569	0.000	177	885
	20	SA		Visionare Lighting LLC	VLX-1-T2-160LC-5-4K-UNV-CLS	POLE MOUNT 28' AFG	22774	0.000	267	5340
	24	SB		Visionare Lighting LLC	VLX-1-T5W-160LC-5-5K-UNV	POLE MOUNT 28' AFG	32951	0.000	266	6364
	7	SC		Visionare Lighting LLC	VLX-1-T3-100LC-3-4K-UNV	POLE MOUNT 28' AFG	23138	0.000	171	1197

Calculation Summary								
Project: COSTCO STUART SITE: 02/24/2021								
Label	Cat/Type	Units	Avg	Max	Min	AvgMin	MaxMin	
RESIDENTIAL PROP- LINE NO. 8' AFG	Humittance	Fc	0.06	0.2	0.0	N.A.	N.A.	
RESIDENTIAL PROP- LINE 50. 8' AFG	Humittance	Fc	0.15	0.2	0.0	N.A.	N.A.	
COSTCO WAREHOUSE PARKING	Humittance	Fc	9.24	12.1	2.5	3.10	4.84	
COSTCO MAIN WAREHOUSE ENTRANCE	Humittance	Fc	7.67	9.5	5.2	1.48	1.83	
ENTRY ROAD	Humittance	Fc	3.05	7.0	0.6	0.08	11.67	
MIXED USE SITE & PARKING	Humittance	Fc	1.82	5.7	0.6	0.03	9.50	

ELECTRICAL LEGEND

- ▽ TELEPHONE OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- ▼ DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- ✈ TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNTED ABOVE COUNTER, SEE ARCHITECTURAL DRAWING FOR SPECIFIC REQUIREMENTS.
- ▽ TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT STUBBED OUT FROM WALL 6" ABOVE CEILING. MOUNT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- ☑ TELEPHONE/DATA OUTLET WITH 3/4" CONDUIT RUN TO THE NEAREST STUD WALL AND STUBBED OUT FROM WALL 6" ABOVE CEILING. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.
- ☑ TELEVISION RECESSED OUTLET. LEGRAND "TV1WMTVSSWC2". MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS OTHERWISE NOTED.
- 20 AMP SINGLE RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
- 20 AMP QUADRUPLX RECEPTACLE (NEMA 5-20R) MOUNTED AT 18" A.F.F. TO CENTER LINE OF OUTLET UNLESS NOTED OTHERWISE.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH GROUND FAULT CIRCUIT INTERRUPTER, MOUNT AT 18" A.F.F. TO CENTER LINE OF OUTLET. UNLESS NOTED OTHERWISE.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) MOUNTED ABOVE COUNTER SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC REQUIREMENTS.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R) WITH ISOLATED GROUND, MOUNT AT 18" A.F.F. TO CENTERLINE OF OUTLET UNLESS OTHERWISE NOTED.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), RECESS FLOOR MOUNTED. PROVIDE BRASS COVER PLATE AND CARPET FLANGE.
- 20 AMP DUPLEX RECEPTACLE (NEMA 5-20R), CEILING MOUNTED.
- SPECIAL--PURPOSE RECEPTACLE
- JUNCTION BOX
- SINGLE GANG JUNCTION BOX FOR POWER CONNECTION TO MODULAR FURNITURE SYSTEM. INSTALL IN EXACT MANNER AS DIRECTED BY FURNITURE SUPPLIER.
- DOUBLE GANG JUNCTION BOX FOR TELEPHONE/DATA CONNECTION TO MODULAR FURNITURE SYSTEM. INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER. EXTEND (2) 3/4" EMPTY CONDUITS FROM JUNCTION BOX TO ABOVE CEILING AND TERMINATE WITH INSULATING BUSHING 6" FROM WALL.
- ☑ TELE/POWER POLE FOR TELEPHONE/DATA/POWER CONNECTION TO MODULAR FURNITURE 8 WIRE SYSTEM (SEE DETAIL THIS SHEET). INSTALL IN EXACT MANNER AND LOCATION AS DIRECTED BY FURNITURE SUPPLIER, WIREMOLD CATALOG # 25DTP--4D W/IVORY FINISH.
- ☑ SPECIAL PURPOSE RECEPTACLE MOUNTED BELOW RAISE FLOOR.
- ☑ EXHAUST FAN. SEE MECHANICAL DRAWINGS FOR SPECIFICATIONS.
- \$ SINGLE POLE, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
- \$3 3-WAY, 20 AMP, SWITCH. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
- \$0 SINGLE POLE, 20 AMP, SWITCH WITH DIMMER. MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
- \$W MOTOR RATED SWITCH
- \$5 VACANCY SENSOR SWITCH, WATTSTOPPER, MOUNT 46" A.F.F. TO CENTERLINE OF SWITCH UNLESS OTHERWISE NOTED.
- \$ TWO POLE, 30 AMP SWITCH. MOUNT ADJACENT EQUIPMENT TO BE CONTROLLED.
- ☑ FACTORY MOUNTED DISCONNECT/STARTER (SEE MECHANICAL SCHEDULE)
- ☑ FUSIBLE DISCONNECT SWITCH A = POLES, B= FRAME SIZE, C= FUSE RATING
- ☑ FUSIBLE MOTOR STARTER DISCONNECT SWITCH A = POLES, B= NEMA SIZE, C= FUSE RATING
- ⊥ GROUNDING ELECTRODE & CONDUCTOR SYSTEM
- ☑ TRANSFORMER
- ☑ ELECTRICAL PANELBOARD
- ☑ TELEPHONE WOOD BACKBOARD
- WP WEATHERPROOF
- T/C TIME CLOCK
- RE RELOCATED
- E EXISTING TO REMAIN
- A.F.F. ABOVE FINISH FLOOR
- ☉ CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.
- ☉ LV CEILING MOUNTED LOW VOLTAGE DUAL TECHNOLOGY MOTION SENSOR BY WATTSTOPPER.
- ☉ DS CEILING MOUNTED DAY LIGHTING SENSOR. SENSOR TO CONTROL THE DIMMING OF ALL FIXTURES WITHIN 15' OF THE WINDOWS WITH IN ROOM.

ELECTRICAL SPECIFICATIONS

PART 1 -- GENERAL

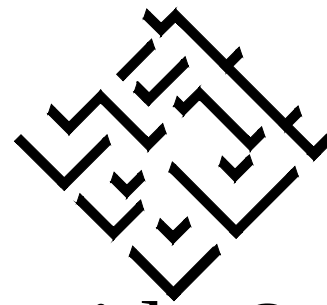
- A. THE CONTRACTOR SHALL SUPPLY AND INSTALL ALL NEW ELECTRICAL WORK INDICATED. CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND APPLICABLE SPECIFICATIONS. IF A PROBLEM IS ENCOUNTERED IN COMPLYING WITH THIS REQUIREMENT, CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY OF THE PROBLEM AND SHALL NOT PROCEED WITH THAT PORTION OF THE WORK UNTIL ARCHITECT/ENGINEER HAS DIRECTED CORRECTIVE ACTION TO BE TAKEN.
- B. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATIONS INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF.
- C. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (AS ADOPTED BY THE AUTHORITY HAVING JURISDICTION) AND ALL CODES AND ORDINANCES OF THE AUTHORITY HAVING JURISDICTION. THE SPECIFICATION, CODES AND STANDARDS LISTED BELOW ARE UTILIZED IN THIS PROJECT.
- NATIONAL ELECTRICAL CODE (NFPA-70)
 - CODE FOR SAFETY TO LIFE (NFPA-101)
 - STANDARD FOR THE INSTALLATION, MAINTENANCE AND USE OF LOCAL PROTECTIVE SIGNALING SYSTEMS (NFPA-72)
 - UNDERWRITERS' LABORATORIES (UL)
 - NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
 - FEDERAL SPECIFICATION (FED. SPEC.)
 - INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
 - FLORIDA BUILDING CODE. FBC 2017 EDITION
 - INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
 - CITY OF STUART BUILDING CODE. (AMENDMENTS TO FLORIDA BUILDING CODE FBC 2017)
 - ADDITIONALLY, DESIGNS, WORK PRACTICES AND CONDITIONS MUST CONFORM WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA)
- D. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONFIRM WITH OWNER'S REPRESENTATIVE.
- E. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS NECESSARY FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
- F. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FROM A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
- G. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THERE BY.
- H. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS AND TESTING. CONTRACTOR TO OBTAIN PERMIT AND APPROVED SUBMITTALS PRIOR TO BEGINNING WORK OR ORDERING EQUIPMENT. THE TERM "PROVIDE" USED IN THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS SHALL MEAN THAT THE CONTRACTOR IS TO FURNISH, INSTALL AND CONNECT COMPLETE.

PART 2 -- PRODUCTS

- A. MINIMUM WIRE SIZE SHALL BE #12 A.W.G. (EXCEPT AS NOTED OTHERWISE FOR CONTROL WRING). ALL CONDUCTORS SHALL BE 98X CONDUCTIVITY, COPPER WITH "THIN-THIN" INSULATION UNLESS OTHERWISE NOTED.
- B. ELECTRICAL METALLIC TUBING (EMT) SHALL BE OF BEST QUALITY STEEL, SMOOTH INSIDE AND OUT AND SHALL BE HOT-DIPPED GALVANIZED.
- C. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS
- I. IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- D. RIGID NONMETALLIC CONDUIT SHALL BE SCHEDULE 40 PVC.
- E. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
- F. PANELBOARDS.
- CURRENT CARRYING BUSES SHALL BE COPPER. GROUND BUS BARS SHALL BE COPPER.
 - ALL CIRCUIT BREAKERS SHALL BE BOLT ON. PLUG-IN BREAKERS ARE NOT ACCEPTABLE.
 - CIRCUIT BREAKERS USED AS SWITCHES IN FLUORESCENT OR HID LIGHTING CIRCUITS SHALL BE LISTED AND MARKED "SWD"
 - ALL CIRCUIT BREAKERS FEEDING MECHANICAL EQUIPMENT SHALL BE HACR TYPE.
 - A.I.C. RATINGS SHALL BE AS INDICATED ON PANELBOARD SCHEDULES
 - ALL PANELBOARDS SHALL BE FURNISHED WITH PLASTIC LAMINATE NAMEPLATES WITH 1/4" ENGRAVED LETTERING FOR PANEL IDENTIFICATION.
 - ALL PANELBOARDS SHALL BE PROVIDED WITH TYPE-WRITTEN DIRECTORY OF BRANCH CIRCUIT DESIGNATIONS.
- G. DISCONNECT SWITCHES SHALL BE H.P. RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK. ENCLOSURES SHALL BE NEMA-1 FOR INDOOR LOCATIONS, NEMA 3R FOR OUTDOOR LOCATIONS OR OTHERWISE NOTED.
- H. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC AS INDICATED ON THE ELECTRICAL DRAWINGS, WITH OVERLOAD RELAYS IN EACH PHASE. WIRING DEVICES (GENERAL PURPOSE RECEPTACLES AND WALL SWITCHES) COLOR SHALL BE COORDINATED WITH CLIENT.

PART 3 -- EXECUTION

- A. COLOR CODING OF CONDUCTORS SHALL BE AS FOLLOWS:
- 208/120 VOLTS, 3 PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BLACK, 1 RED AND 1 BLUE. GROUNDED (NEUTRAL) CONDUCTORS: WHITE. GROUNDING CONDUCTORS SHALL BE GREEN.
 - 480/277 VOLT, 3-PHASE, 4-WIRE SYSTEM: UNGROUNDED CONDUCTORS: 1 BROWN, 1 YELLOW, AND 1 PURPLE. GROUNDED (NEUTRAL) CONDUCTORS: GREY. GROUNDING CONDUCTORS SHALL BE GREEN.
 - BRANCH CIRCUIT WIRING (#6 AND SMALLER) SHALL BE COLOR CODED BY CONTINUOUS INSULATION COLOR AND FEEDERS AND SERVICES (#4 AND LARGER) SHALL BE CODED AT ALL JUNCTION OR PULL POINTS (EXCEPT LB'S OR LBD'S) USING COLOR MARKERS OR PLASTIC TAPE MANUFACTURED FOR THE PURPOSE.
- B. WIRING METHODS
- ALL CONDUCTORS SHALL BE INSTALLED IN ELECTRICAL METALLIC TUBING (EMT) UNLESS OTHERWISE NOTED, SPECIFIED OR AS SPECIFICALLY PROHIBITED BY THE AUTHORITY HAVING JURISDICTION. ALL FITTINGS AND COUPLINGS FOR EMT CONDUIT SHALL BE ALL STEEL. RAIN TIGHT COMPRESSION TYPE OR ALL STEEL CONCRETE TIGHT SET SCREW TYPE.
 - SCHEDULE 40 PVC CONDUIT, WITH FITTINGS AND COUPLINGS APPROPRIATE FOR THE USE, SHALL BE INSTALLED UNDERGROUND OR BELOW SLABS ON GRADE.
 - TYPE MC CABLE WITH ALUMINUM ARMOR AND INTERNAL GROUND IS ACCEPTABLE FOR USE AS GENERAL BRANCH CIRCUIT WIRING FOR CIRCUITS 20 AMPERES OR LESS AND CONCEALED IN WALLS OR ABOVE SUSPENDED CEILING AND AS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- C. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDED AS REQUIRED BY THE LATEST EDITION OF THE N.E.C. AND LOCAL CODES.
- D. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIVE AND ACCEPTED BY ENGINEER/ARCHITECT.
- E. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- F. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES, AND SHALL BE FULLY COORDINATED WITH THEM PRIOR TO COMMENCEMENT OF WORK.
- G. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES, AND WIRING DEVICES, FOR ALL OUTLETS AS INDICATED.
- H. MATERIALS, PRODUCTS, AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SUCH AS APPEAR ON THE UL LIST OF APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF NEC, NEMA, AND IEEE.
- I. CONTRACTOR SHALL SUBMIT AT LEAST FIVE (5) SETS OF SHOP DRAWINGS OR CUT SHEETS OF LIGHTING FIXTURES, SWITCHES, AND OTHER ELECTRICAL ITEMS FOR APPROVAL BY ENGINEER/ARCHITECT. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED OF HIS WORK.
- K. ALL LAY-IN LIGHTING FIXTURES SHALL BE SECURED TO THE SUSPENDED CEILING GRID AT EACH CORNER.
- L. CONTRACTOR SHALL COORDINATE WITH MECHANICAL DRAWINGS AND PROVIDE ALL NECESSARY CONTROL WIRING.
- M. ALL ELECTRICAL POWER WIRING FOR THE HVAC SYSTEM INCLUDING WIRING THRU LINE VOLTAGE CONTROL DEVICES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- N. THE CONTRACTOR SHALL CONFIRM WITH THE ELECTRICAL UTILITY COMPANY ANY AND ALL REQUIREMENTS SUCH AS: METERING EQUIPMENT REQUIREMENTS AND METERING EQUIPMENT LOCATION, TRANSFORMER SIZE AND LOCATION OR SERVICE POINT, CONDUIT ENTRY AND LUG SIZE RESTRICTIONS. THE CONTRACTOR SHALL SCHEDULE ALL REQUIRED DOWN TIME FOR THE OWNERS CONFIRMATION. ANY CONFLICTS AND DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK.
- O. PER NEC 210.8(B)(2) ALL 15- AND 20-AMPERE, 125-VOLT RECEPTACLES IN NONDWELLING--TYPE KITCHENS TO BE GFCI PROTECTED.
- P. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% DESIGN LOAD. FBC 2017 FBC ENERGY CONSERVATION SECTION 405.7.3.
- Q. FEEDER CONDUCTORS SHALL BE SIZED FOR A MAXIMUM OF 2% VOLTAGE DROP PER 405.7.3.



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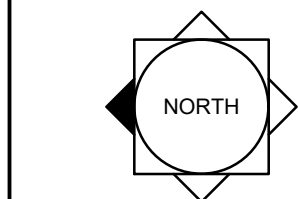
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KANNER CPUD

City of Stuart, Martin County, Florida

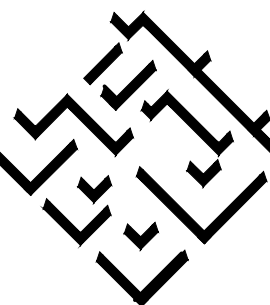
Master Site Plan

Date	By	Description
8.21.2020	SL	Initial Submittal
12.18.2020	SL	1st Resubmittal



SCALE: 1" = 100'

50' 100' 200'



REG. # 1018
Thomas P. Lucido

Designer --- Sheet

Manager ---

Project Number ---

Municipal Number ---

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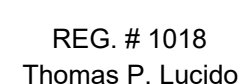
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City of Stuart, Martin County, Florida

Date	By	Description
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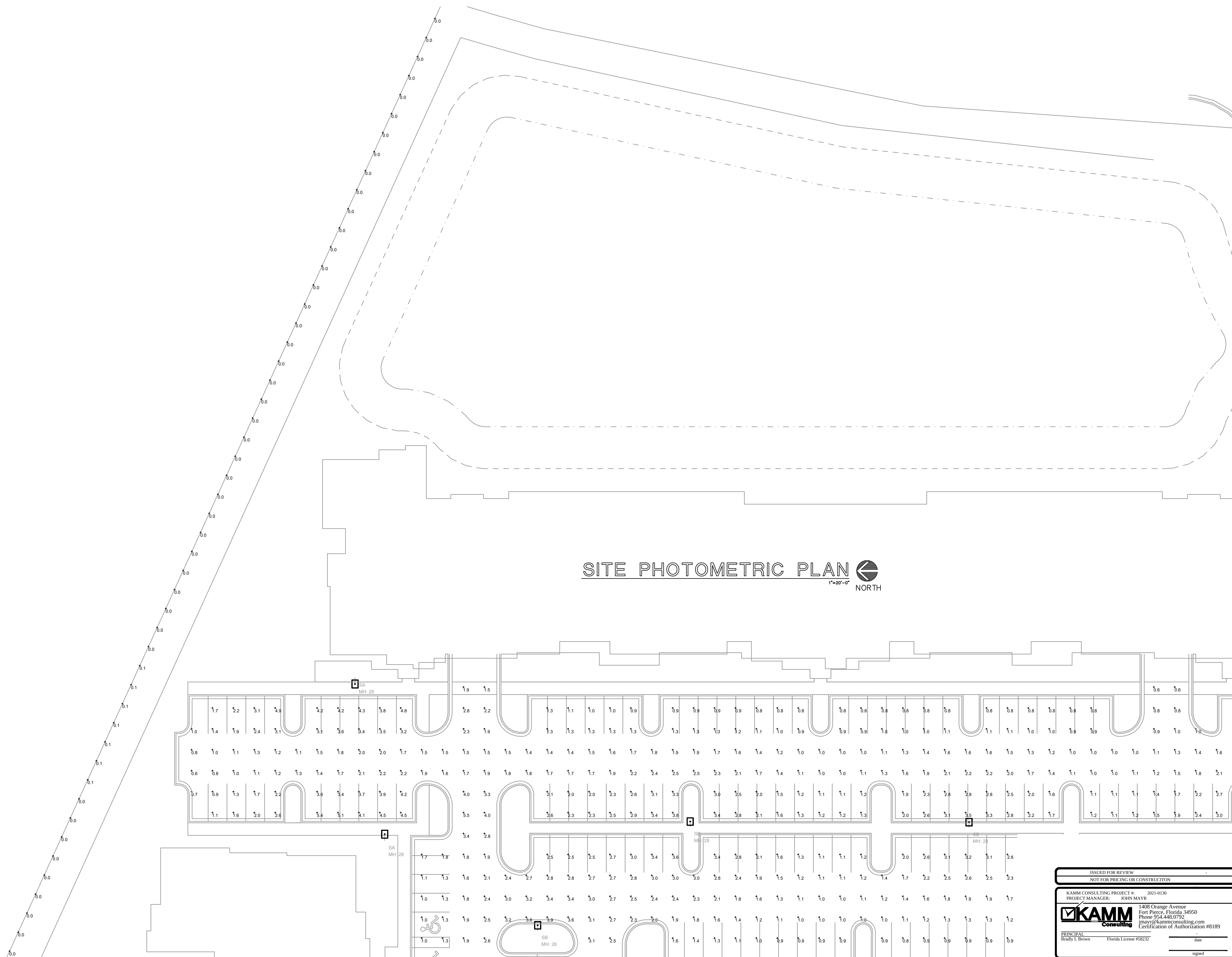


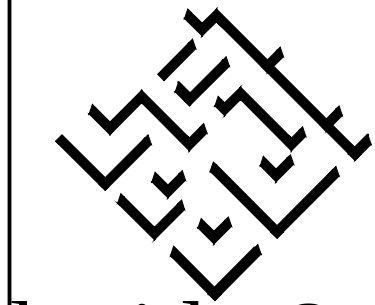
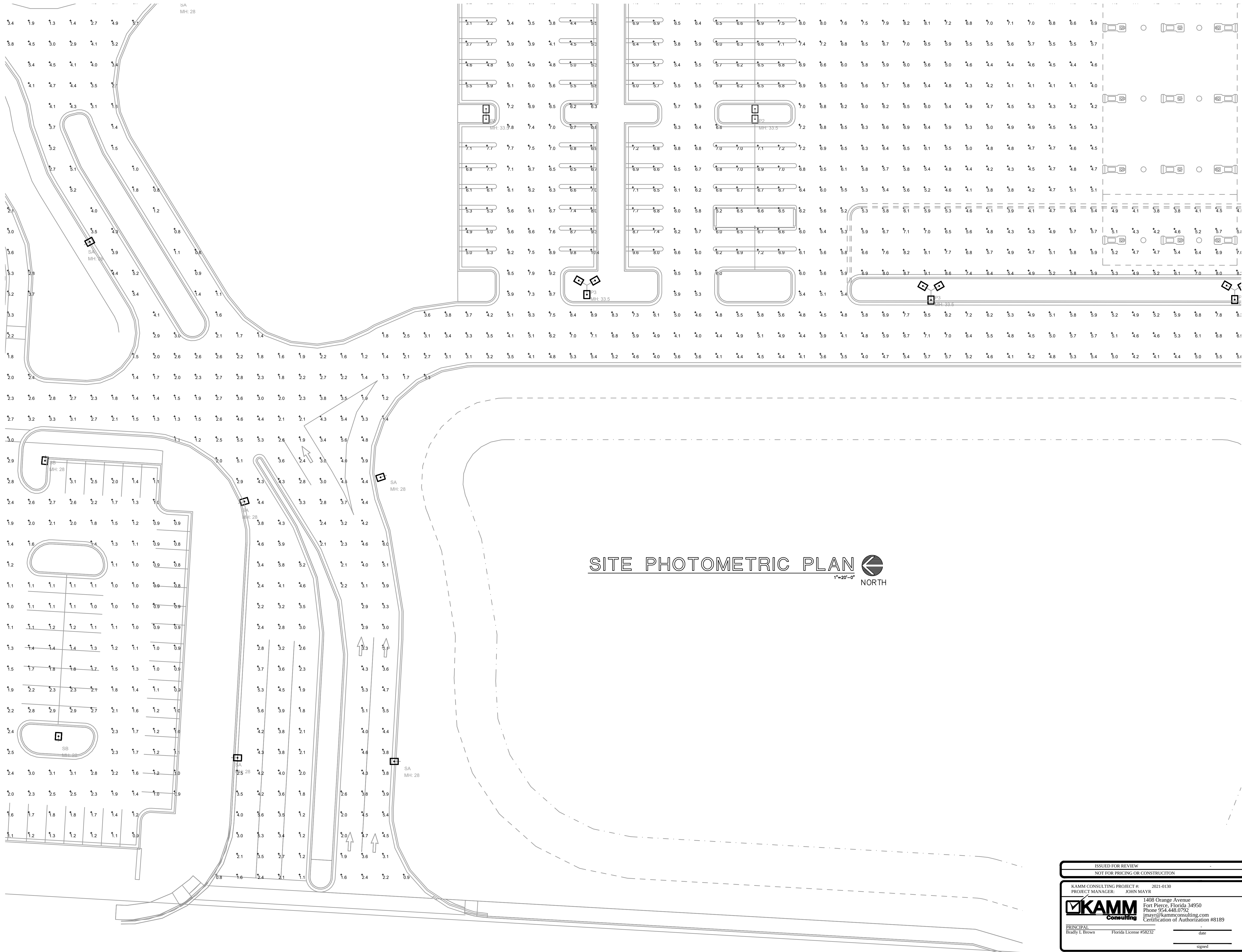
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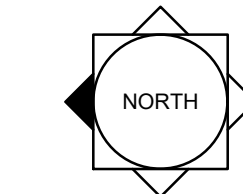
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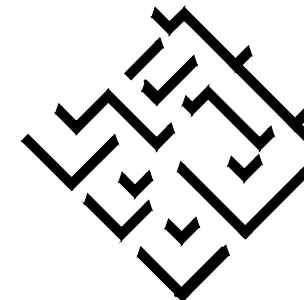
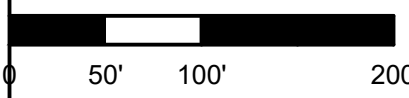
Date By Description

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12.18.2020 SJS 1st Resubmittal



SCALE: 1" = 100'



REG. # 1018
Thomas P. Lucido

Designer --- Sheet

Manager ---

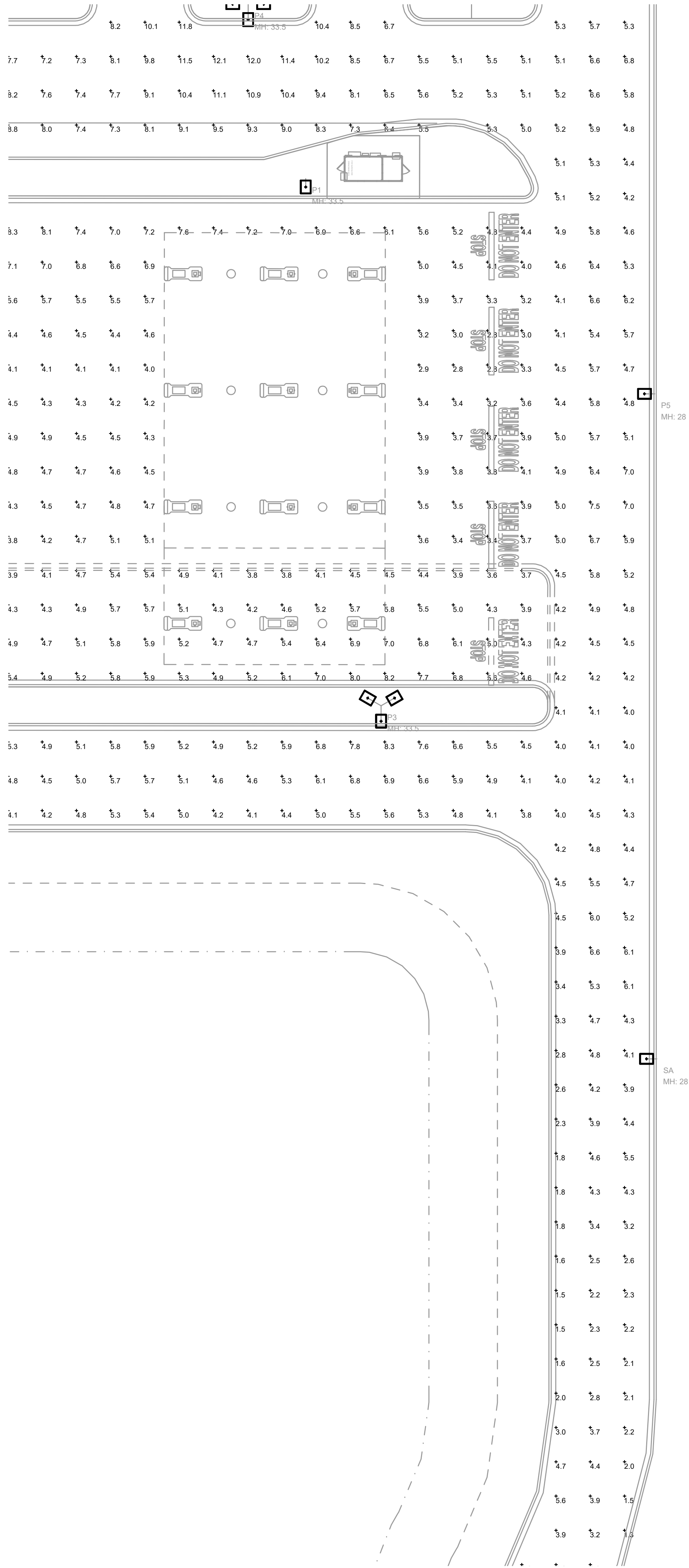
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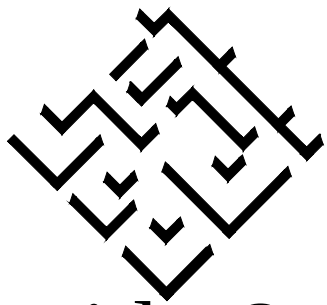


SITE PHOTOMETRIC PLAN



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KAMM CONSULTING PROJECT # 2021-0130	
PROJECT MANAGER: JOHN MAYR	
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	date
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SITE PHOTOMETRIC PLAN



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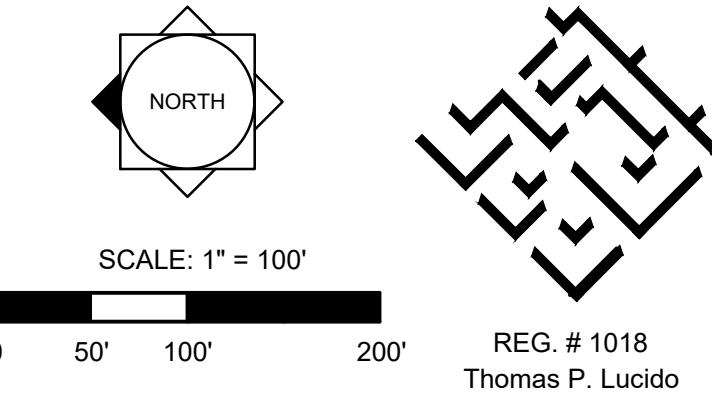
Landscape Architect/Land Planner:
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772-220-2100

KANNER CPUD

City of Stuart, Martin County, Florida

Master Site Plan

Date	By	Description
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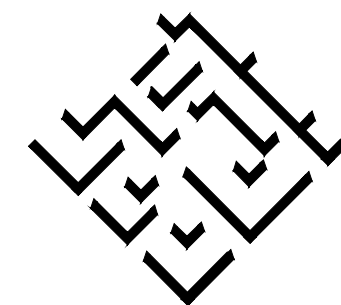
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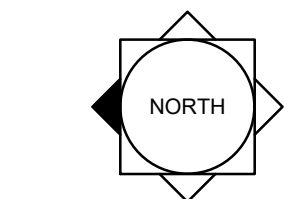
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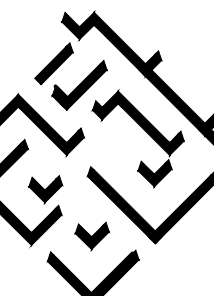
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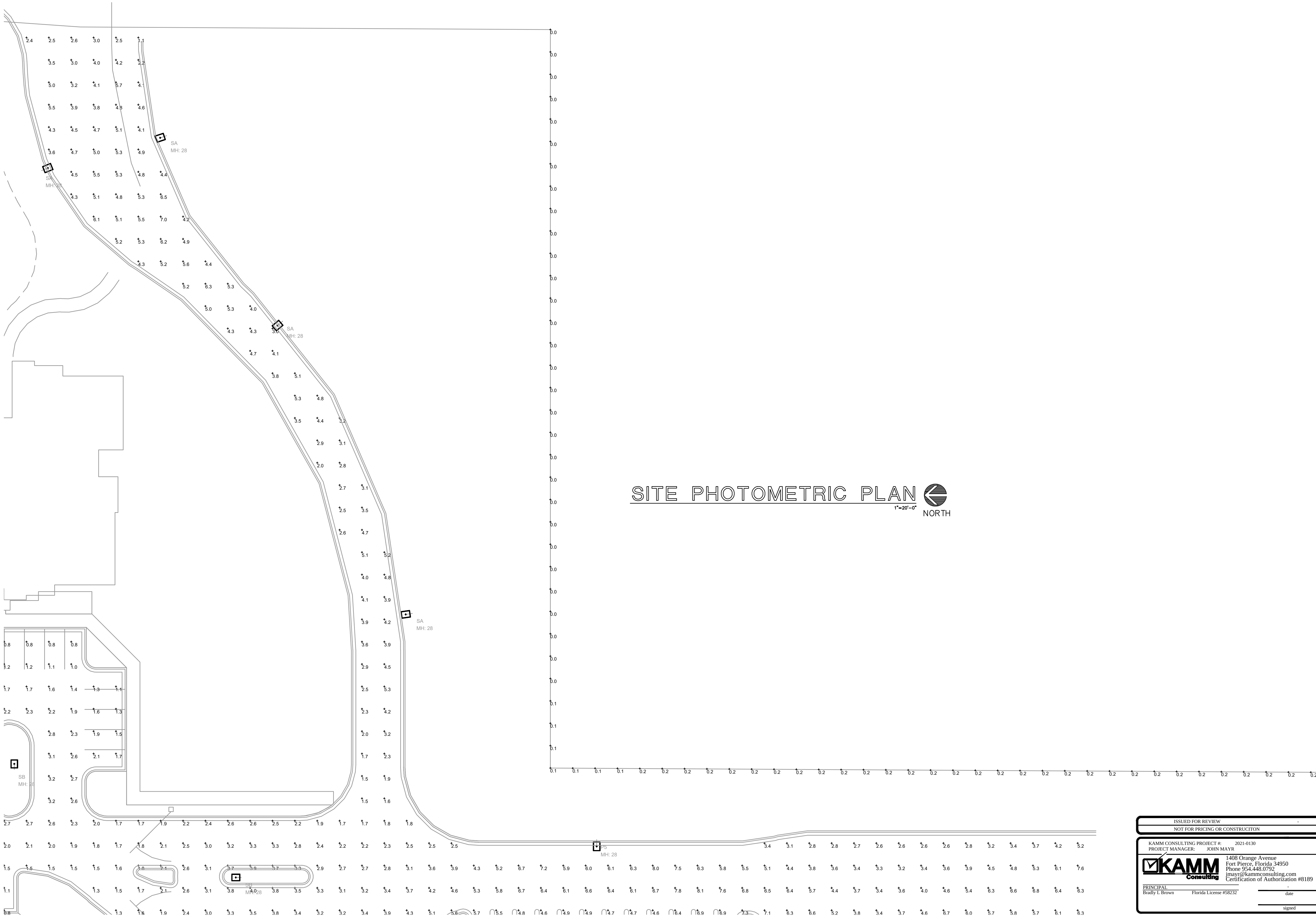


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Thomas P. Lucido

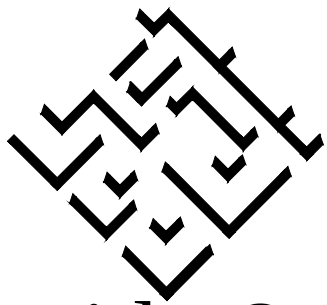
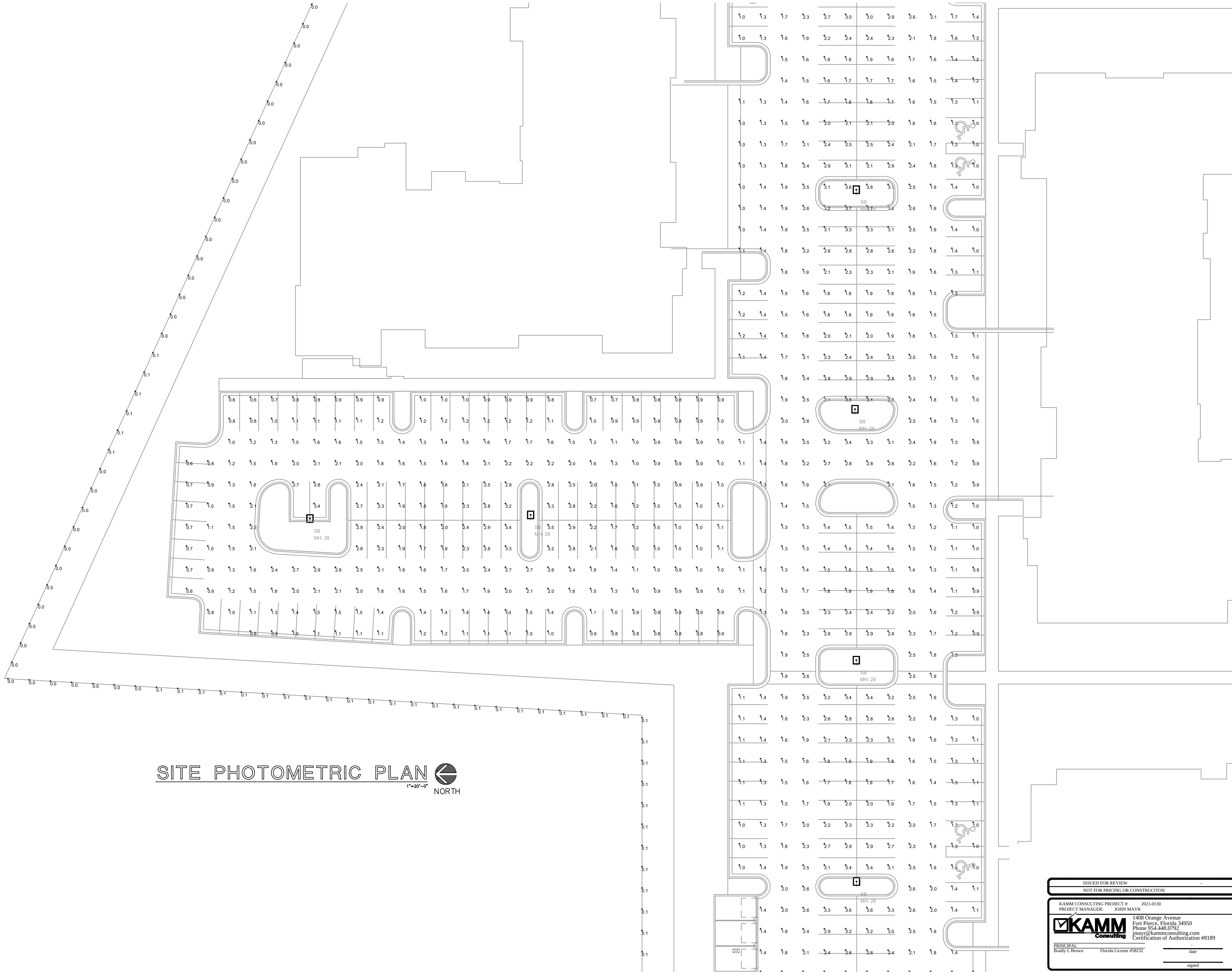
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PRINCIPAL Brady L. Brown		Florida License #58232	
		date	
		signed	



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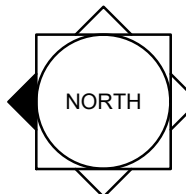
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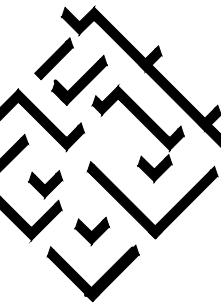
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SCALE: 1" = 100'



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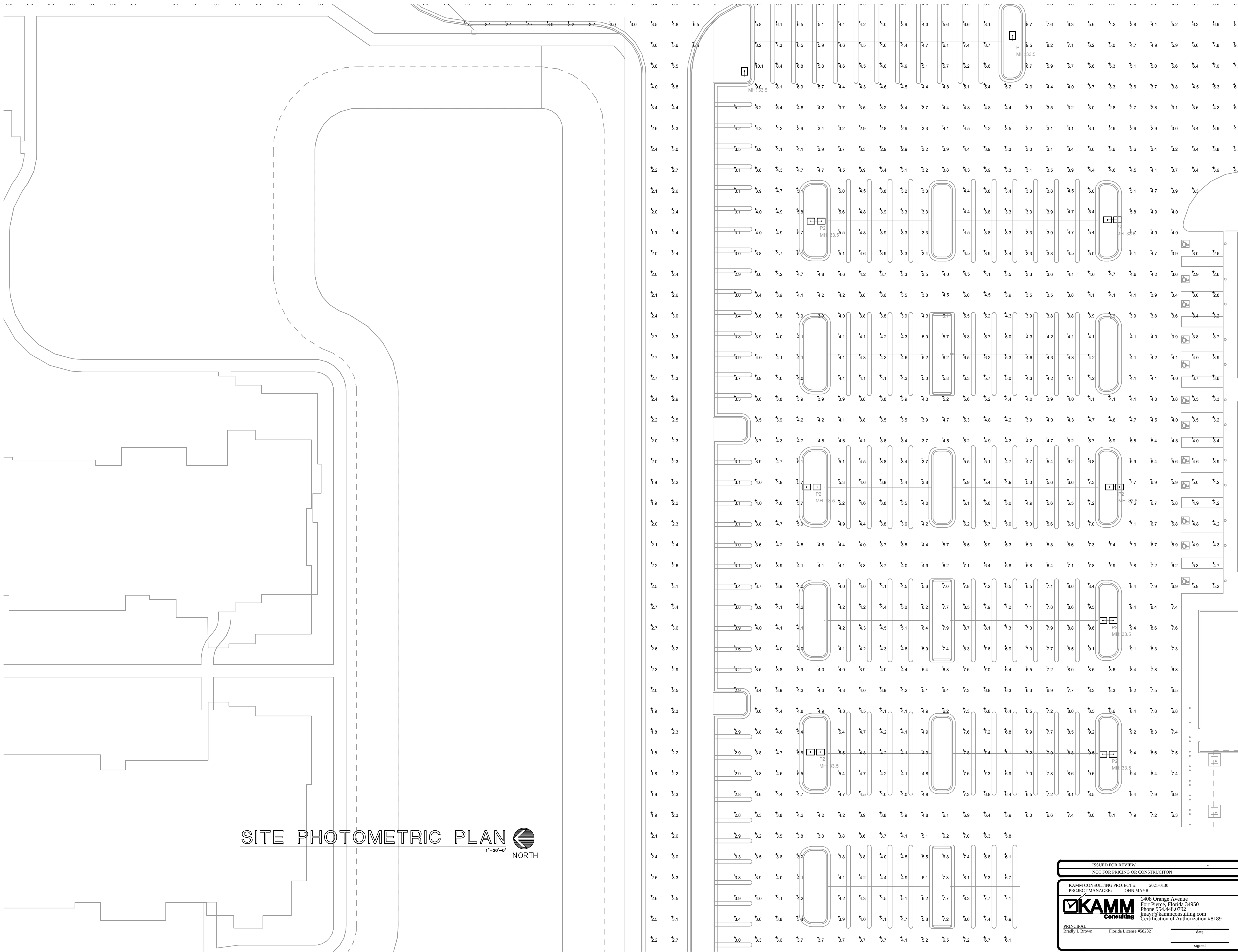
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PRINCIPAL Brady L Brown	Florida License #58232
date	signed



SITE PHOTOMETRIC PLAN
1"=20'-0" NORTH

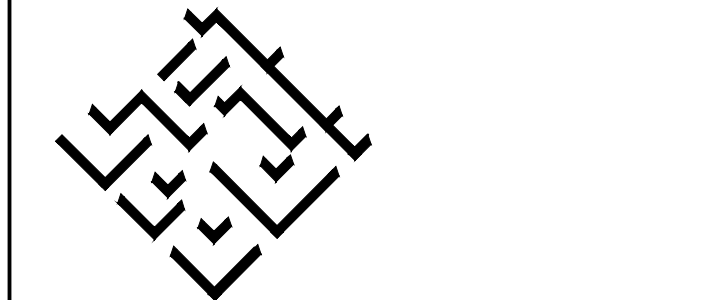
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KAMM CONSULTING PROJECT # 2021-0130
PROJECT MANAGER: JOHN MAYR

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KANNER CPUD
City of Stuart, Martin County, Florida

Master Site Plan

Date	By	Description
8.21.2020	SL S	Initial Submittal
12.18.2020	SL S	1st Resubmittal

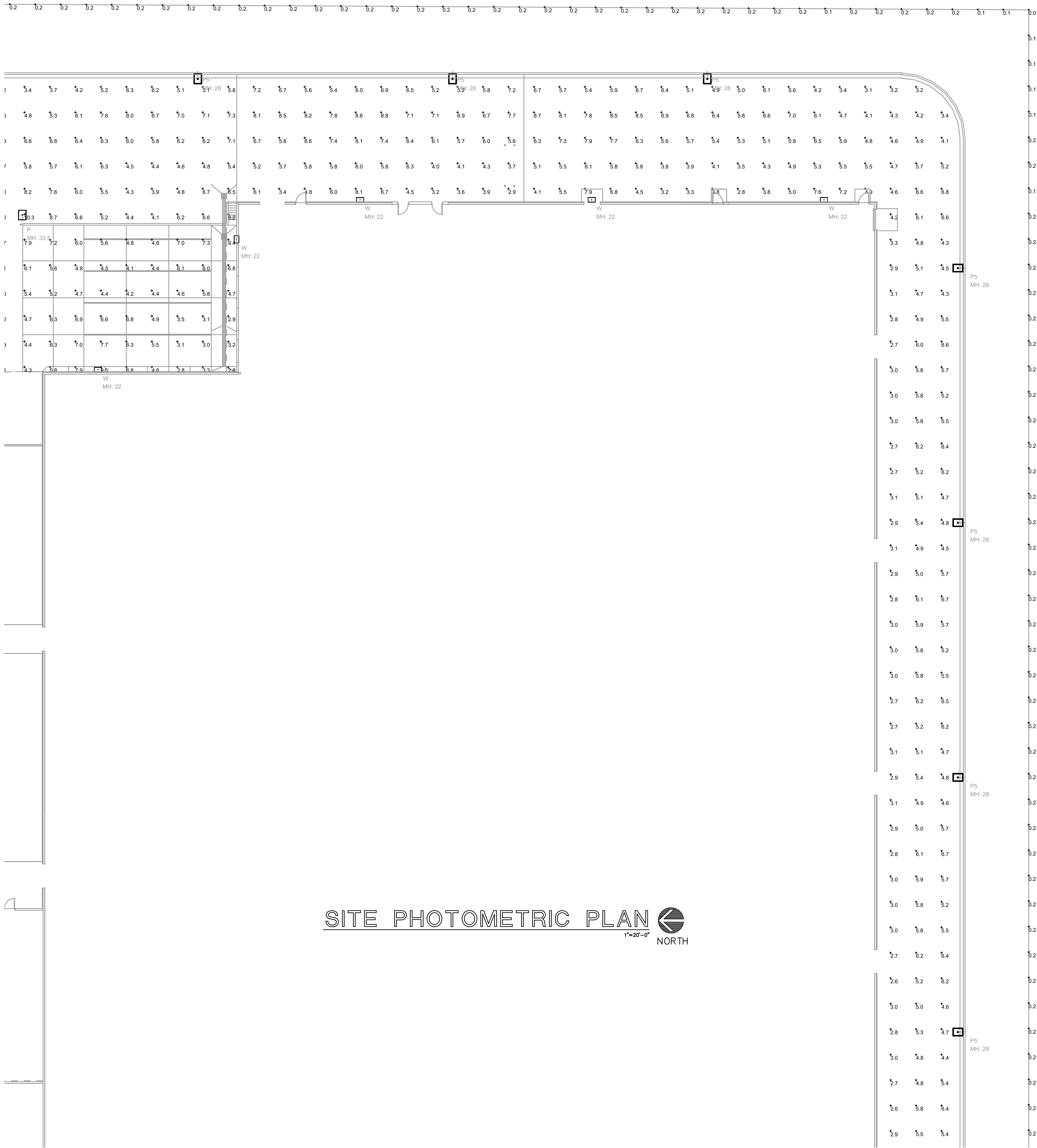
NORTH

SCALE: 1" = 100'
50' 100' 200'

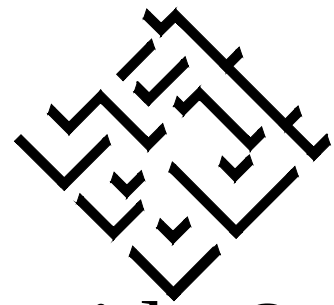
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SITE PHOTOMETRIC PLAN
1"=20'-0" NORTH



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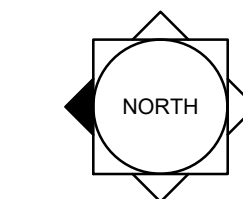
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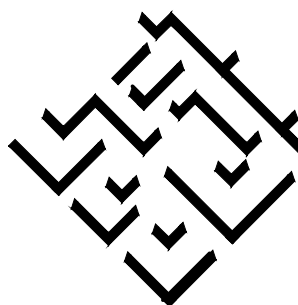
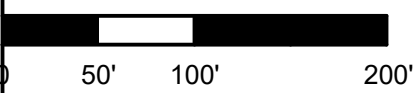
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SCALE: 1" = 100'



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Thomas P. Lucido

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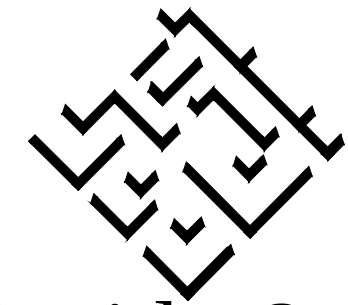
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Brady L. Brown	Florida License #58232
	date
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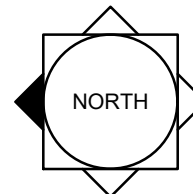
Landscape Architect/Land Planner:
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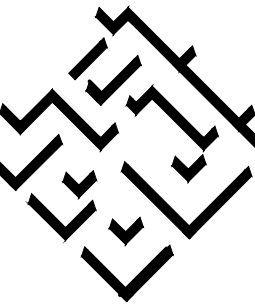
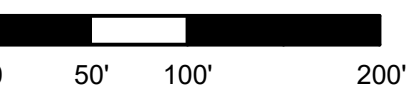
City of Stuart, Martin County, Florida

Master Site Plan

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SITE PHOTOMETRIC PLAN

1"=20'-0"



SITE PHOTOMETRIC PLAN

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PRINCIPAL Brady L. Brown Florida License #58232	date signed



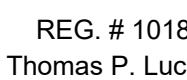
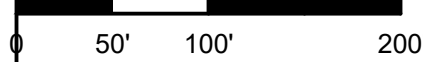
(772) 220-2100, Fax (772) 220-2101

PROJECT LOCATION

Landscape Architect/Land Planner:
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701 E Ocean Blvd
Stuart, FL 34904
772-220-2100

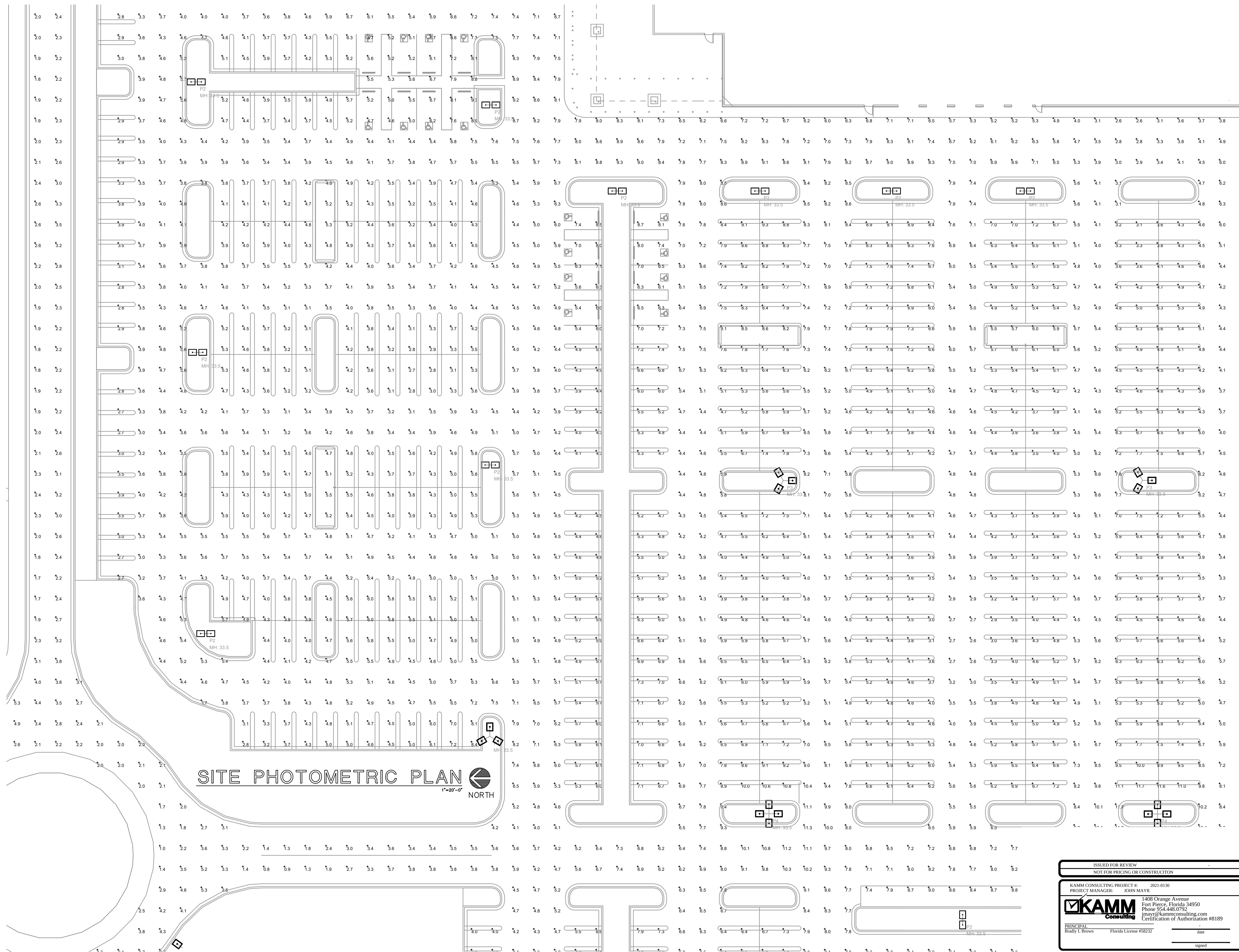
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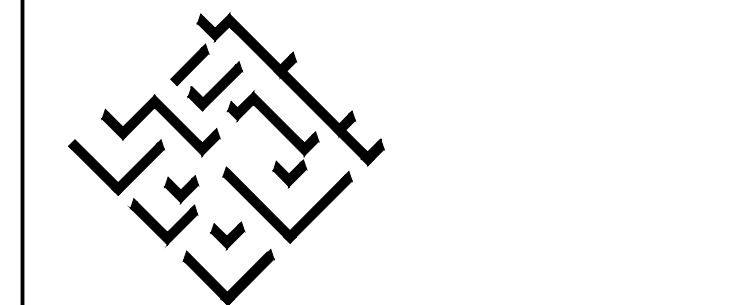
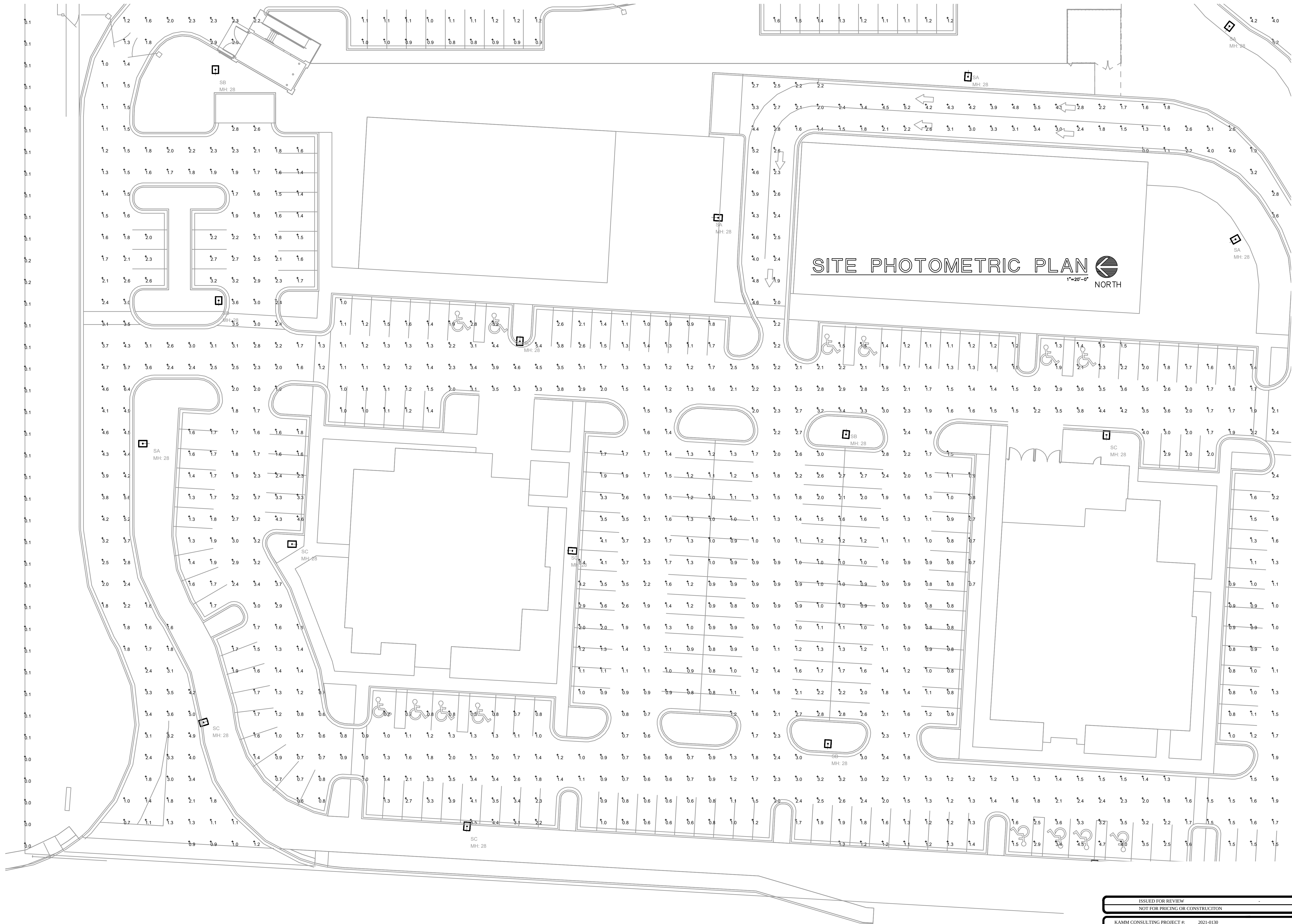
Designer --- Sheet
 Manager ---
 Project Number --- **E1.8**
 Municipal Number ---
 Computer File ---

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SITE PHOTOMETRIC PLAN

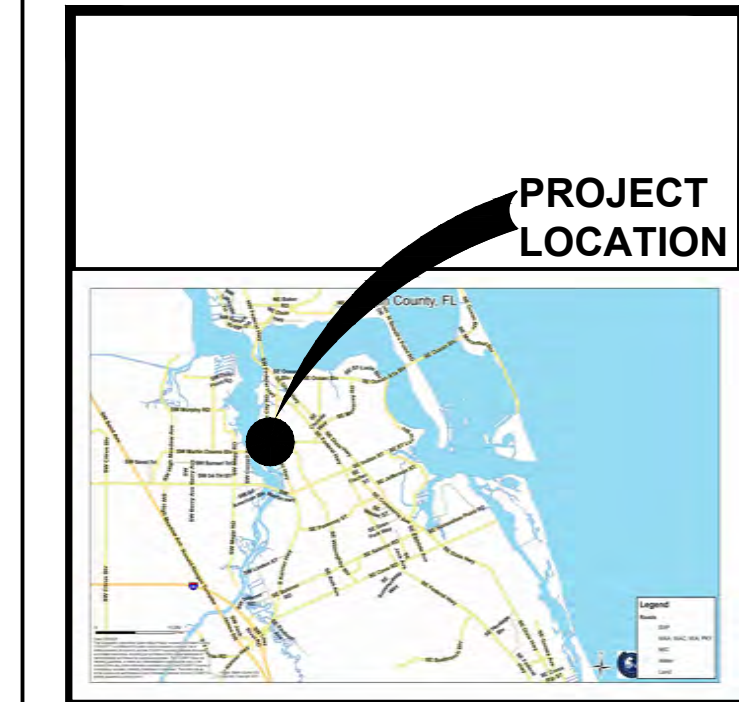
ISSUED FOR REVIEW			
NOT FOR PRICING OR CONSTRUCTION			
KAMM CONSULTING PROJECT #:		2021-0130	
PROJECT MANAGER:		JOHN MAYR	
		1408 Orange Avenue Fort Pierce, Florida 34950 Phone 954.448.0792 mayr@kammconsulting.com Certification of Authorization #01819	
PRINCIPAL			
Brady L Brown		Florida License #58232	
		date	
		signed	



lucido & associate

701 E Ocean Blvd., Stuart, Florida 34994 (772) 220-2100, Fax (772) 22

Key / Location:



Project Team:

Applicant:
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Piscataway, NJ 07704
703-639-3776

Engineer:
Maser Consulting
410 Eagleview Blvd, Suite 104
Exton, PA 19341
610-254-9140

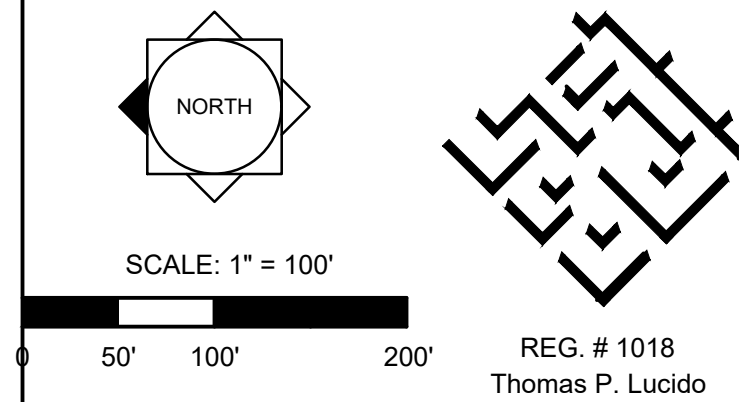
Surveyor:
Stephen J Brown Inc
619 E. 5th St
Stuart, FL 34994
772-288-7176

Landscape Architect/Land Planner:
Lucido & Associates
701 E Ocean Blvd
Stuart, FL 34904
772-220-2100

KANNER CPUD
City of Stuart, Martin County, Florida

Master Site Plan

Date	By	Description
8.21.2020	SL S	Initial Submittal
12.18.2020	SL S	1st Resubmittal



Designer --- Sheet
Manager ---
Project Number ---
Municipal Number ---
Computer File

E1.9

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