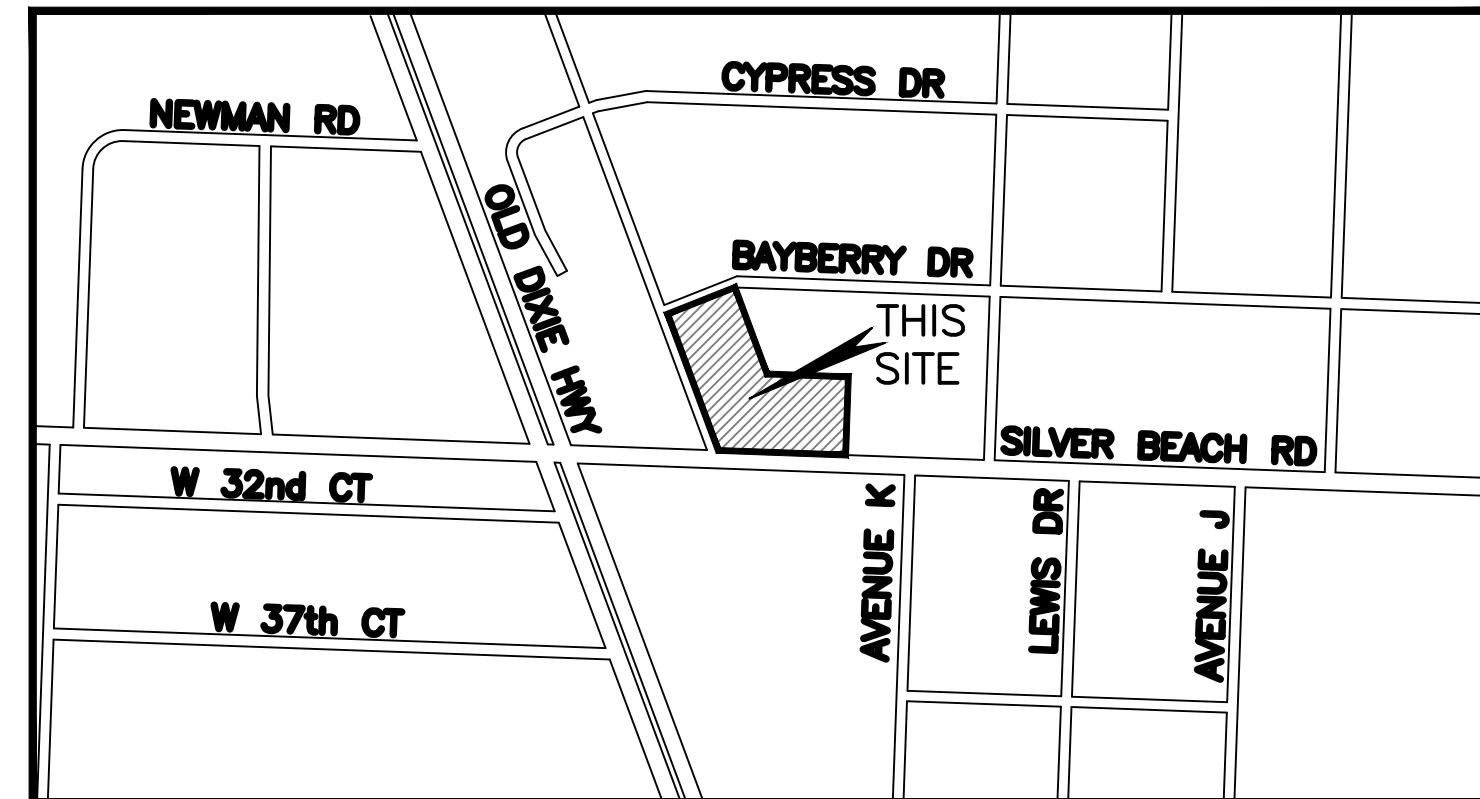


TWIGGS ACADEMY PROPOSED DAY CARE BUILDING AND PARKING IMPROVEMENTS 829 SILVER BEACH ROAD, LAKE PARK, FL



LOCATION MAP

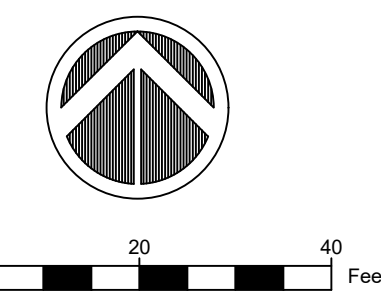
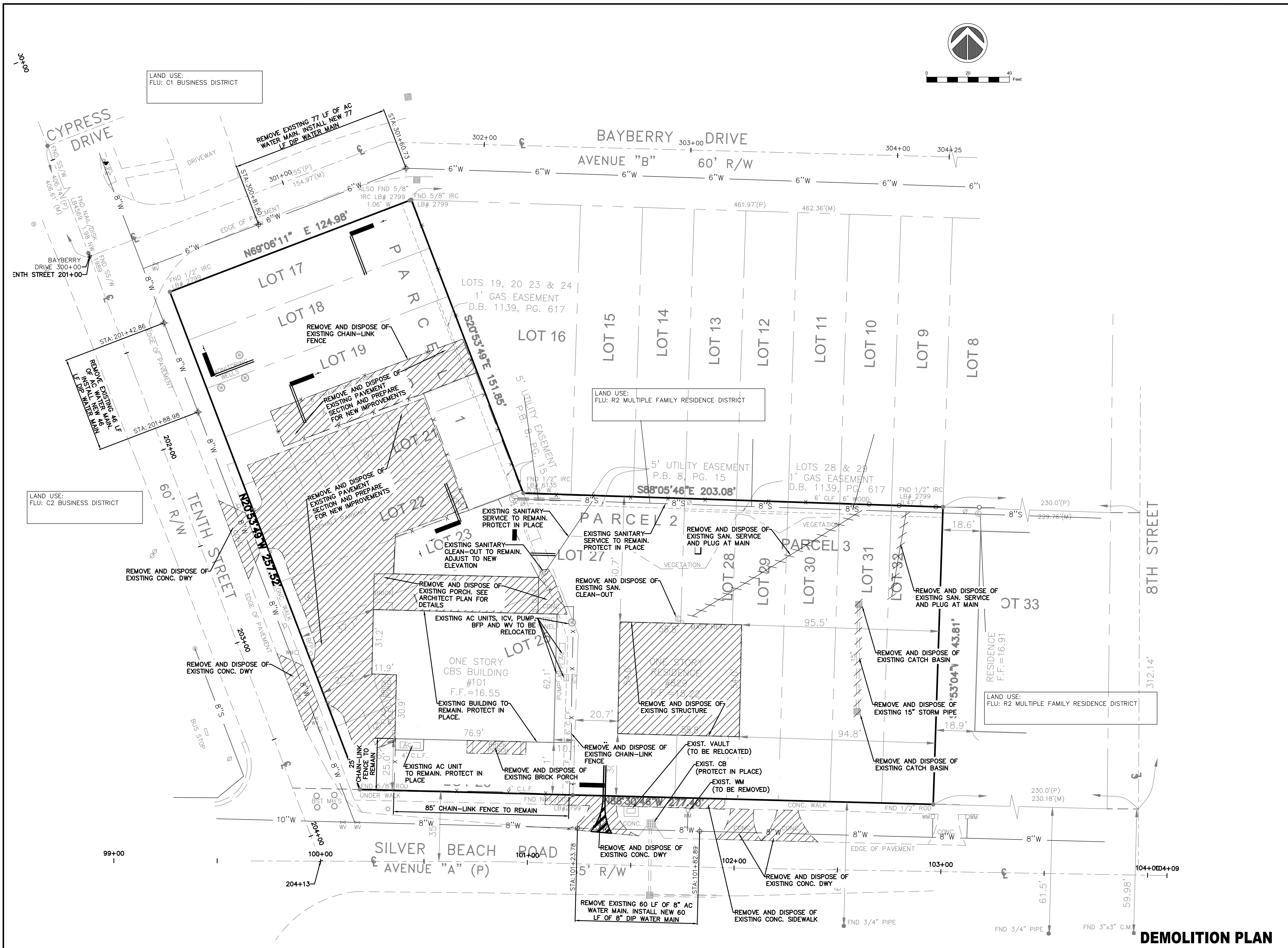


SHEET INDEX

| | |
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ATLANTIC ENGINEERING SERVICES, INC.

2826 WATERS EDGE CIRCLE
GREENACRES, FLORIDA 33413
PHONE - (561) 358-4140
FAX - (561) 966-9242
CERTIFICATE OF AUTHORIZATION NO.: 9390



| REV. | DESCRIPTION | DATE |
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IMTIAZ AHMED, P.E.
 LICENSED ENGINEER NO. 46102
 STATE OF FLORIDA

SEAL

TWIGGS ACADEMY
829 SILVER BEACH ROAD
LAKE PARK, FL

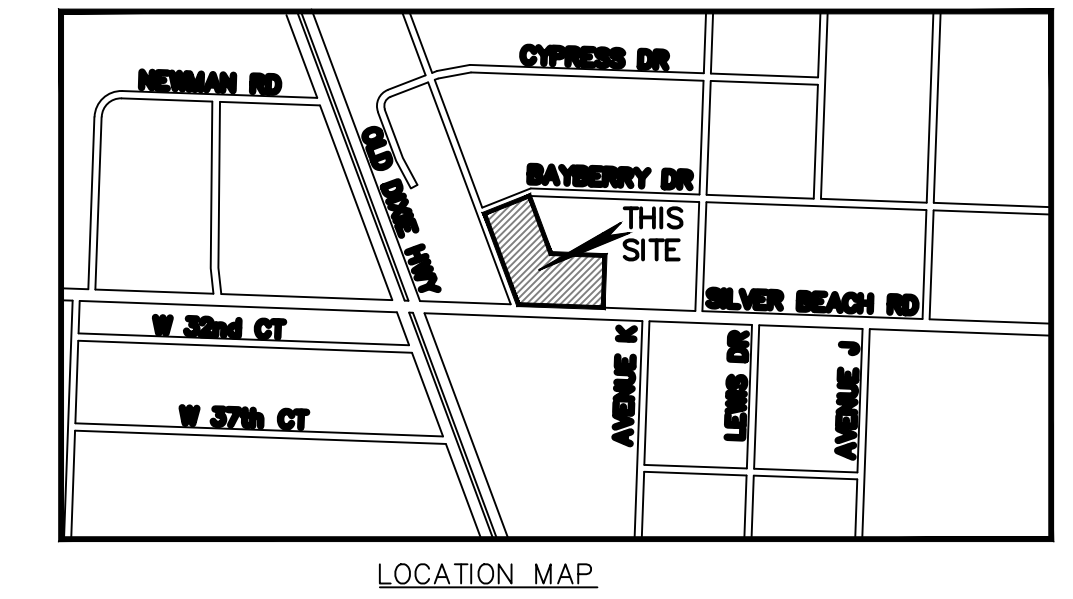
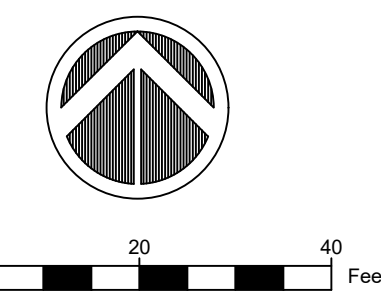
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SHEET NUMBER
D1

DATE DRAWN
 JULY 2025



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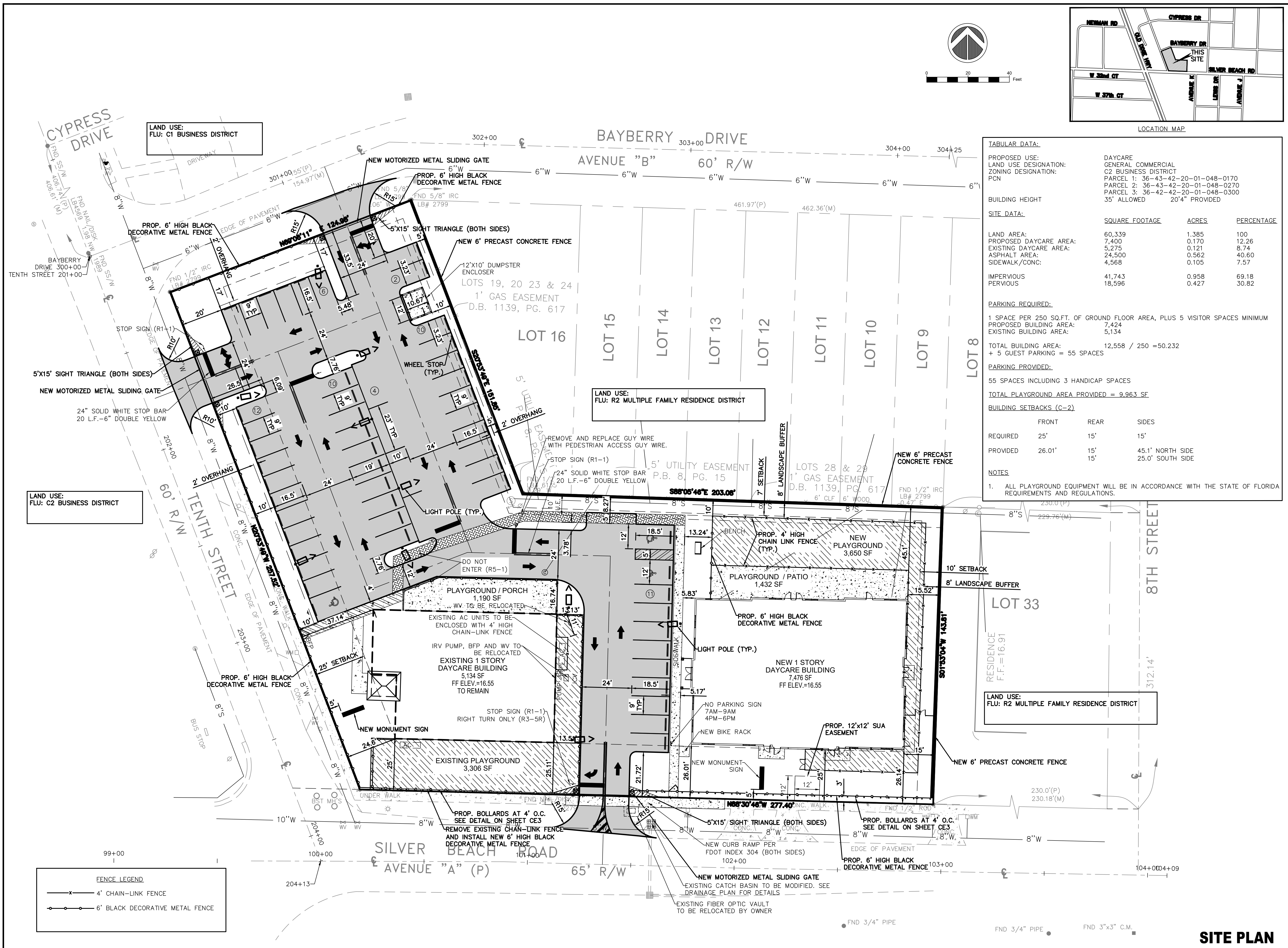
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SP1
DATE DRAWN
JULY 2025



TABULAR DATA:

| | |
|--|--|
| PROPOSED USE: GENERAL COMMERCIAL | DAYCARE |
| LAND USE DESIGNATION: C2 BUSINESS DISTRICT | C2 BUSINESS DISTRICT |
| ZONING DESIGNATION: PCN | PARCEL 1: 36-43-42-20-01-048-0170 |
| | PARCEL 2: 36-43-42-20-01-048-0270 |
| | PARCEL 3: 36-42-42-20-01-048-0300 |
| | 35' ALLOWED 20'4" PROVIDED |

| SITE DATA: | SQUARE FOOTAGE | ACRES | PERCENTAGE |
|-------------------------------|-----------------------|--------------|-------------------|
| LAND AREA: | 60,339 | 1.385 | 100 |
| PROPOSED DAYCARE AREA: | 7,400 | 0.170 | 12.26 |
| EXISTING DAYCARE AREA: | 5,275 | 0.121 | 8.74 |
| ASPHALT AREA: | 24,500 | 0.562 | 40.60 |
| SIDEWALK/CONC: | 4,568 | 0.105 | 7.57 |
| IMPERVIOUS PERVIOUS | 41,743 | 0.958 | 69.18 |
| | 18,596 | 0.427 | 30.82 |

PARKING REQUIRED:

1 SPACE PER 250 SQ.FT. OF GROUND FLOOR AREA, PLUS 5 VISITOR SPACES MINIMUM
 PROPOSED BUILDING AREA: 7,424
 EXISTING BUILDING AREA: 5,134

TOTAL BUILDING AREA: 12,558 / 250 = 50.232
 + 5 GUEST PARKING = 55 SPACES

PARKING PROVIDED:

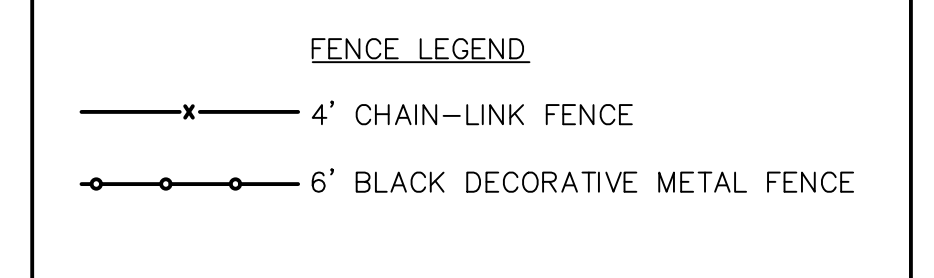
55 SPACES INCLUDING 3 HANDICAP SPACES
TOTAL PLAYGROUND AREA PROVIDED = 9,963 SF

BUILDING SETBACKS (C-2)

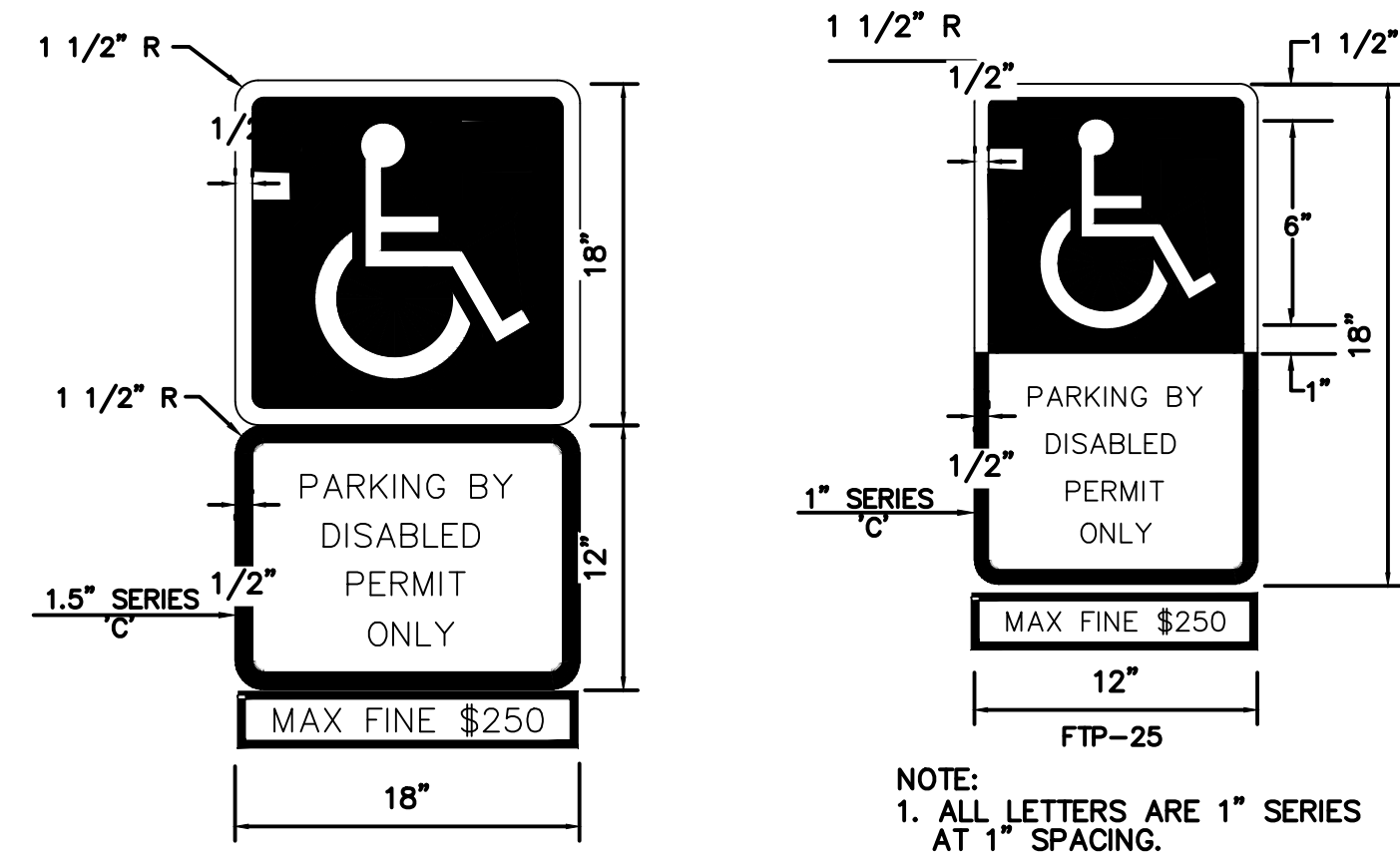
| | FRONT | REAR | SIDES |
|-----------------|--------------|-------------|--------------------------------------|
| REQUIRED | 25' | 15' | 15' |
| PROVIDED | 26.01' | 15' | 45.1' NORTH SIDE 25.0' SOUTH SIDE |

NOTES

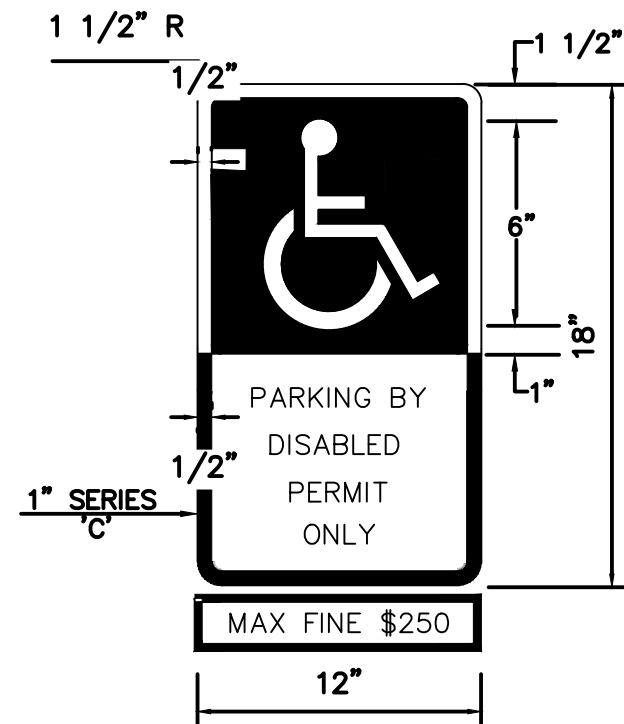
1. ALL PLAYGROUND EQUIPMENT WILL BE IN ACCORDANCE WITH THE STATE OF FLORIDA REQUIREMENTS AND REGULATIONS.



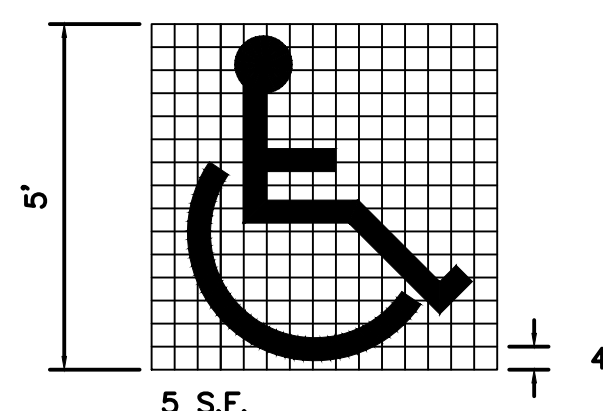
SITE PLAN



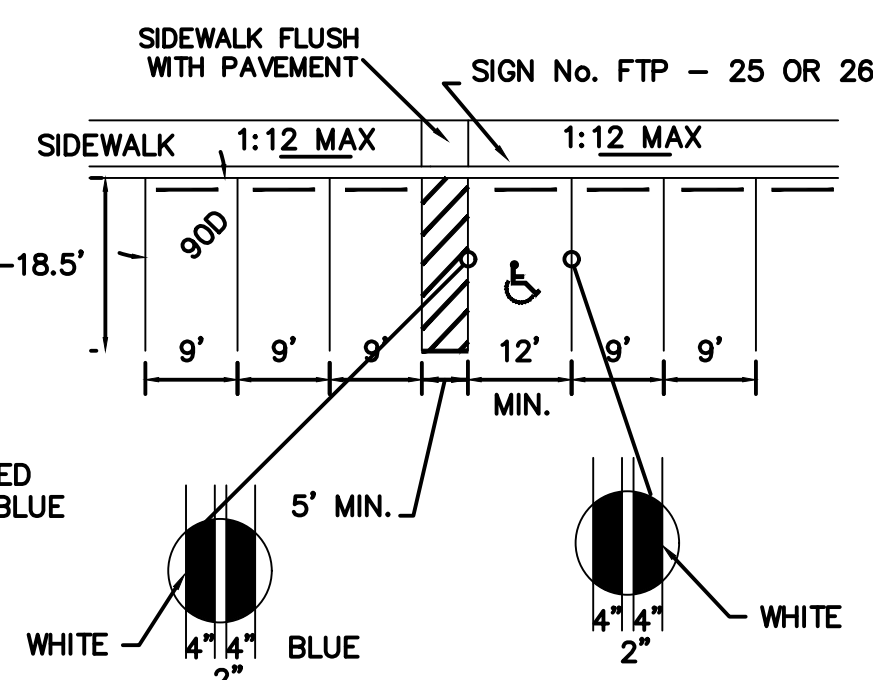
NOTE:
1. ALL LETTERS ARE 1.5" SERIES AT 1.5" SPACING.



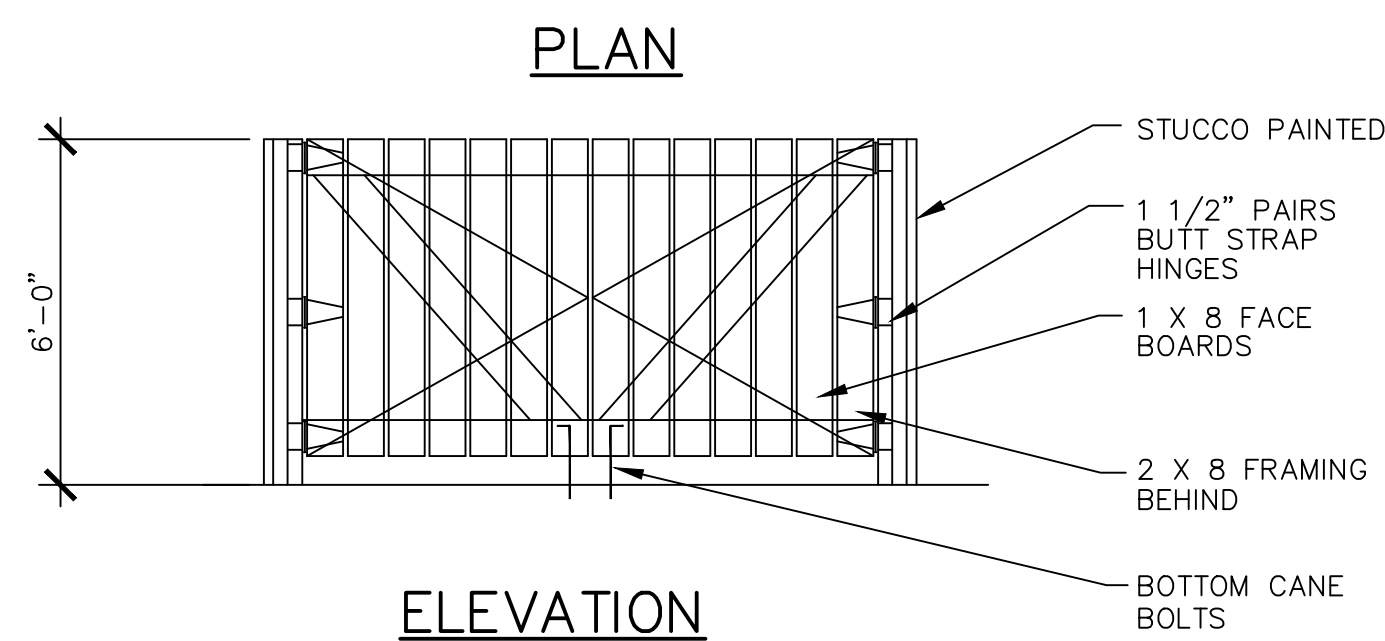
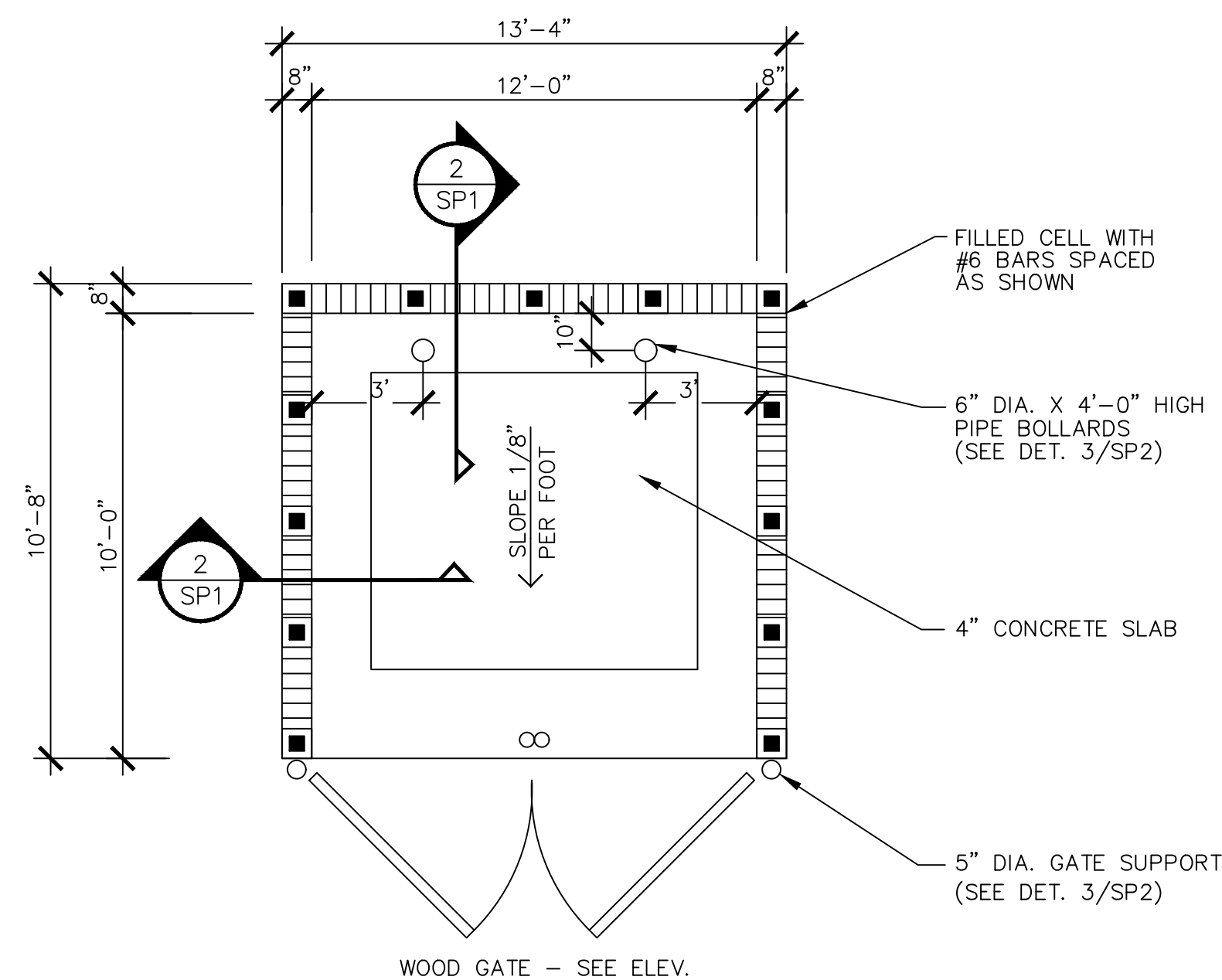
NOTE:
1. ALL LETTERS ARE 1" SERIES AT 1" SPACING.



- NOTE:
1. PROVIDE PAVEMENT SYMBOL IN HANDICAPPED PARKING SPACES, THE SYMBOL SHALL BE BLUE IN COLOR.
 2. ALL RAMPS / SPACES TO MEET A.D.A
 3. NO BUILT UP RAMPS ALLOWED



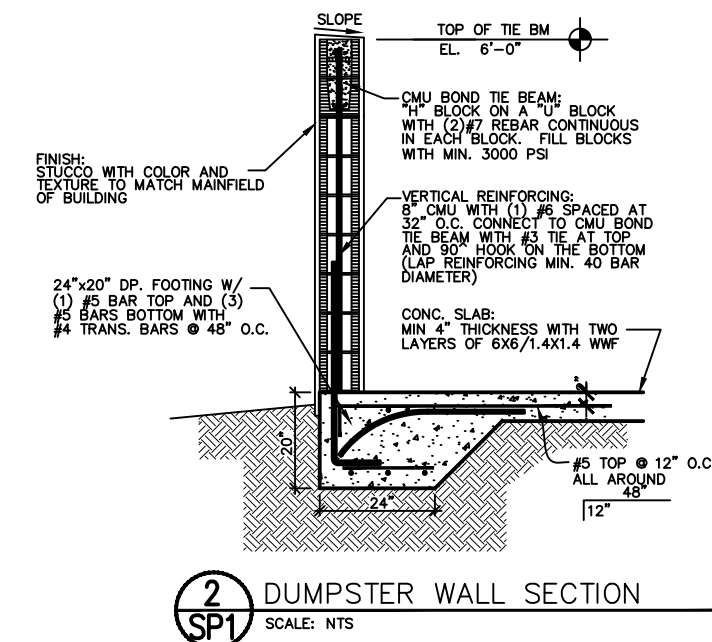
PARKING SPACE DETAIL



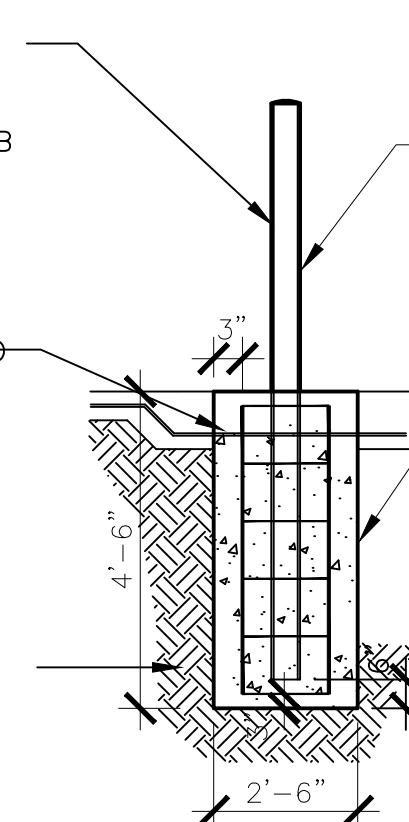
NOTE: DUMPSTER GATES SHALL BE PAINTED TO MATCH THE BUILDING. DUMPSTER ENCLOSURE WALLS SHALL BE FINISHED SMOOTH STUCCO.

1 DUMPSTER ENCLOSURE
SCALE: NTS

DUMPSTER DETAIL



ALLOW SLAB REINFCING TO BE INTEGRATED INTO THE BOLLARD/POST FOOTING AND THICKEN THE EDGE OF THE SLAB AROUND THE FOOTING-CREATE THE ADJACENT SLAB AND THE FOOTING W/ ONE CONTINUOUS CONC. POUR



FOR GATE SUPPORT:
5" DIA. X 3/16" THK. X 6'-0" HIGH STL. POST FILLED WITH CONC.

FOR BOLLARDS IN DUMPSTER:
6" DIA. X 3/16" THK. X 4'-0" HIGH STL. POST FILLED WITH CONC.

FOOTING:
FOR GATE POST OR DUMPSTER BOLLARD - USE 30" DIAMETER X 4'-6" H. 3000 PSI CONC. WITH (4) #5 VERTICAL REINFORCING AND TIED TOGETHER WITH #3 TIES SPACED AT 12" O.C.

3 BOLLARD/POST FTG. DET.
SCALE: NTS



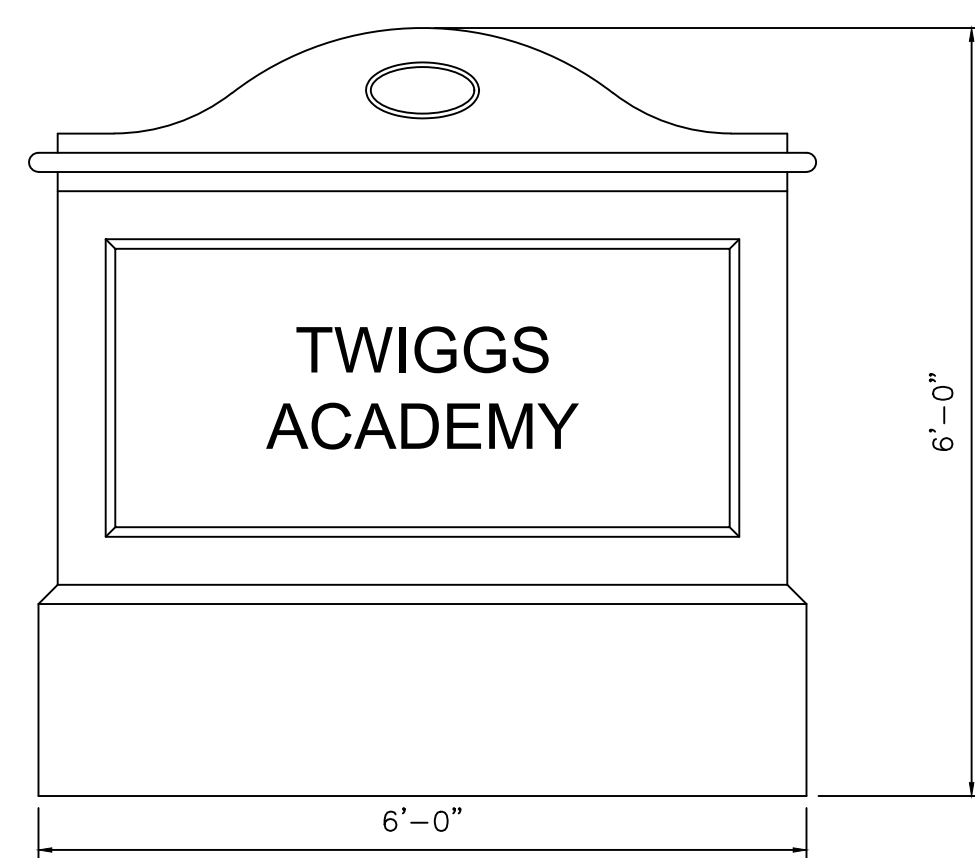
STOP SIGN (R1-)



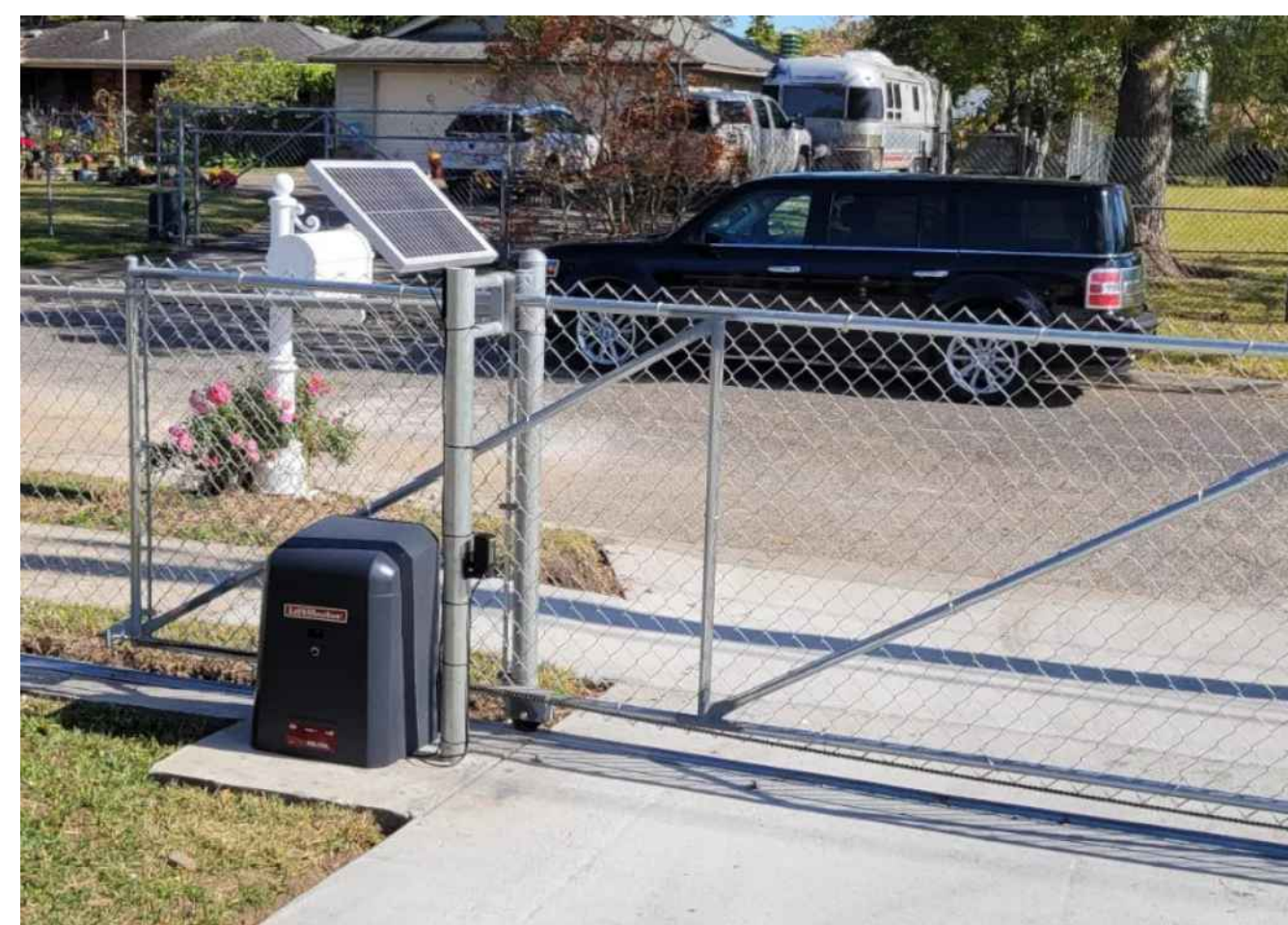
RIGHT TURN ONLY SIGN (R3-5R)



NO PARKING SIGN



MONUMENT SIGN DETAIL



AUTOMATIC ROLLING GATE DETAIL



6' HIGH BLACK DECORATIVE METAL FENCE DETAIL

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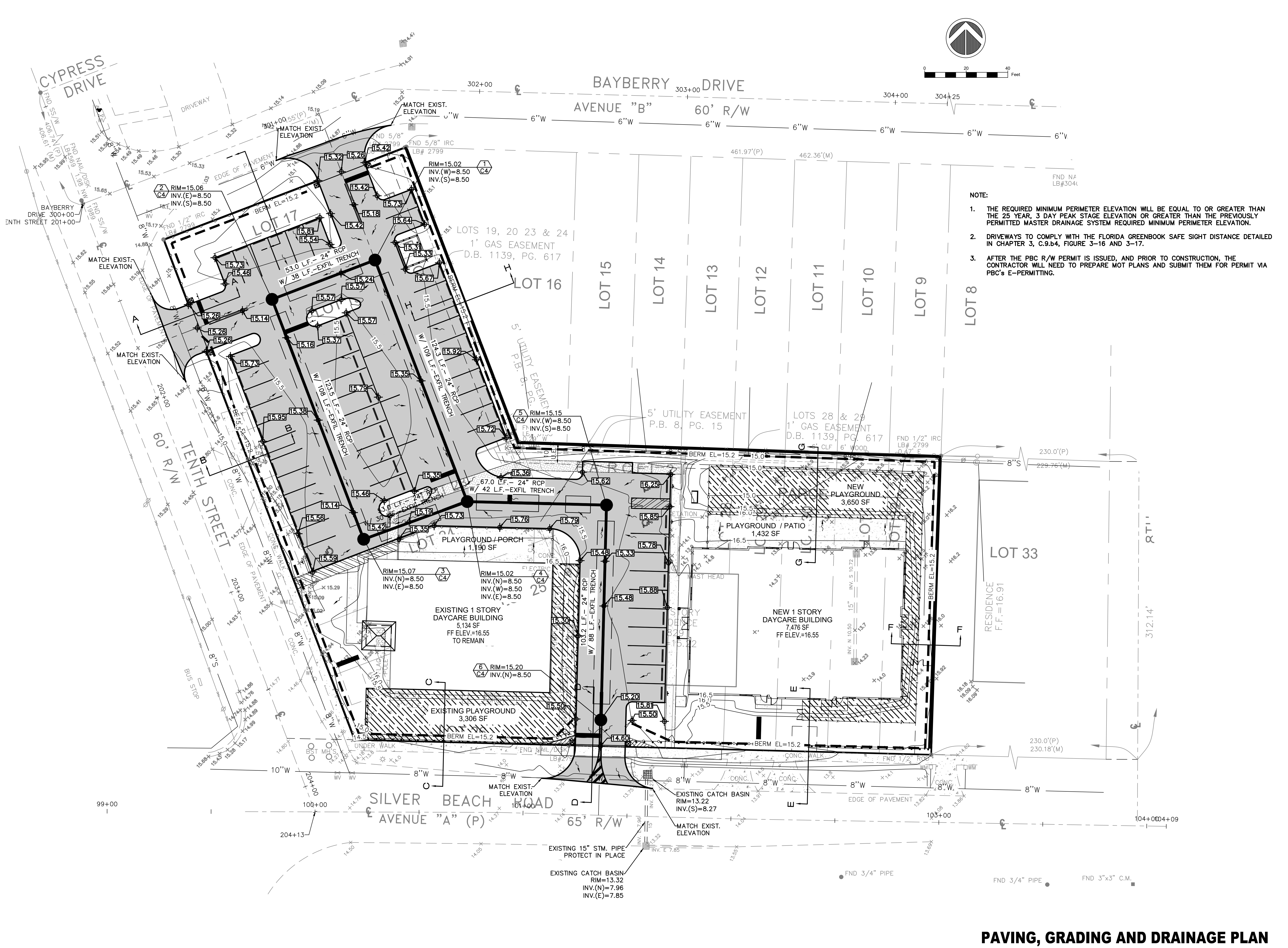
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829 SILVER BEACH ROAD
LAKE PARK, FL

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- NOTE:**
1. THE REQUIRED MINIMUM PERIMETER ELEVATION WILL BE EQUAL TO OR GREATER THAN THE 25 YEAR, 3 DAY PEAK STAGE ELEVATION OR GREATER THAN THE PREVIOUSLY PERMITTED MASTER DRAINAGE SYSTEM REQUIRED MINIMUM PERIMETER ELEVATION.
 2. DRIVEWAYS TO COMPLY WITH THE FLORIDA GREENBOOK SAFE SIGHT DISTANCE DETAILED IN CHAPTER 3, C.9.b.4, FIGURE 3-16 AND 3-17.
 3. AFTER THE PBC R/W PERMIT IS ISSUED, AND PRIOR TO CONSTRUCTION, THE CONTRACTOR WILL NEED TO PREPARE MOT PLANS AND SUBMIT THEM FOR PERMIT VIA PBC'S E-PERMITTING.

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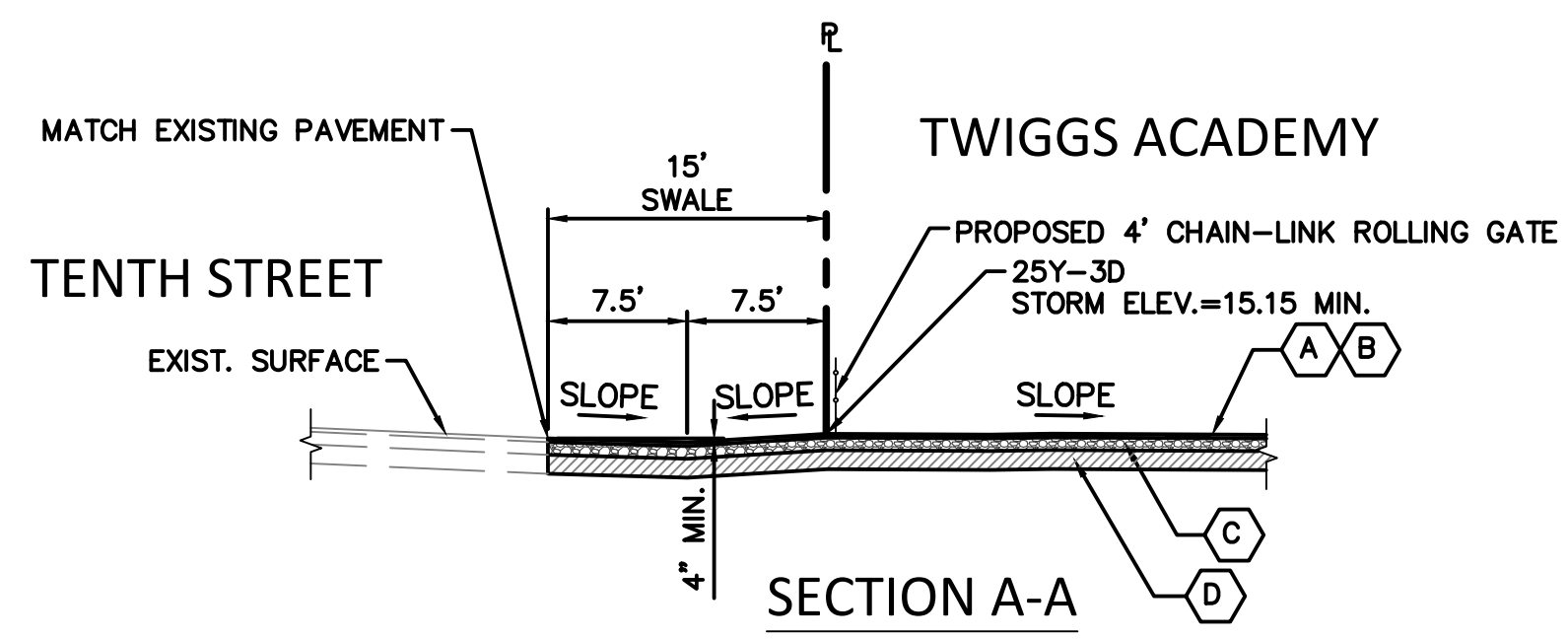
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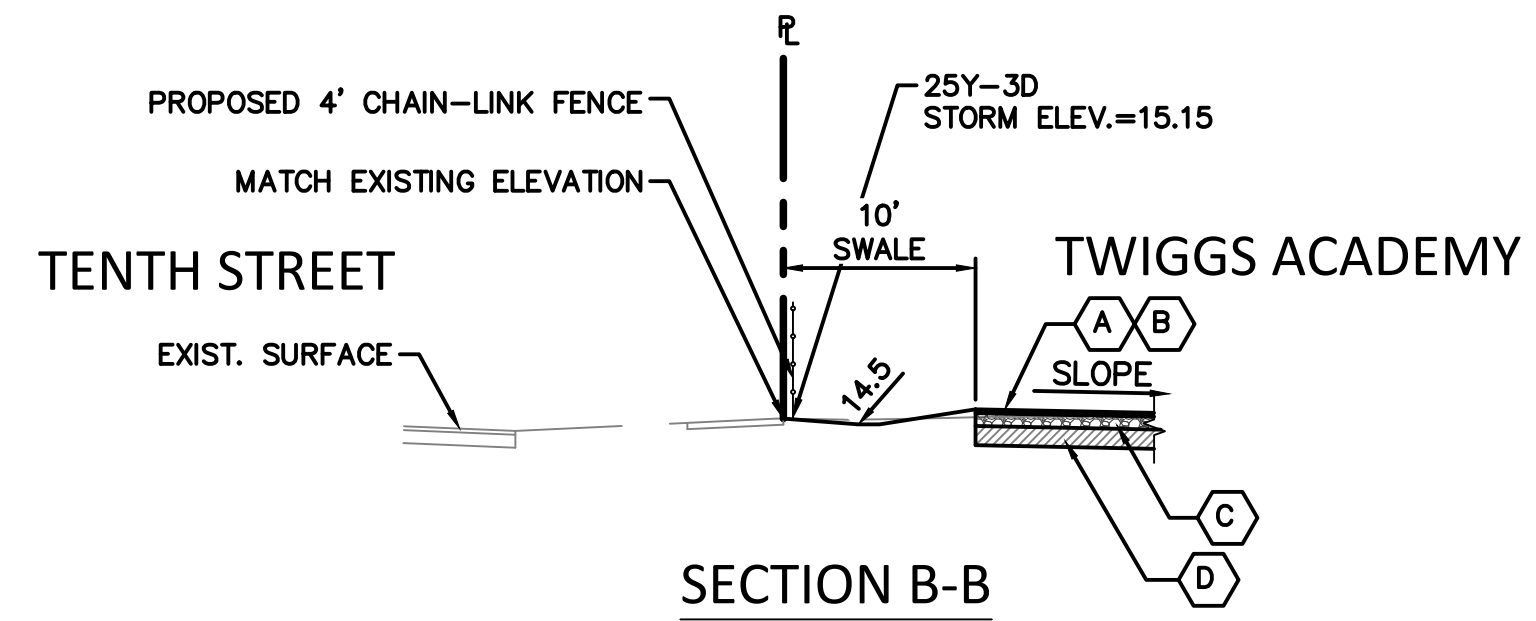
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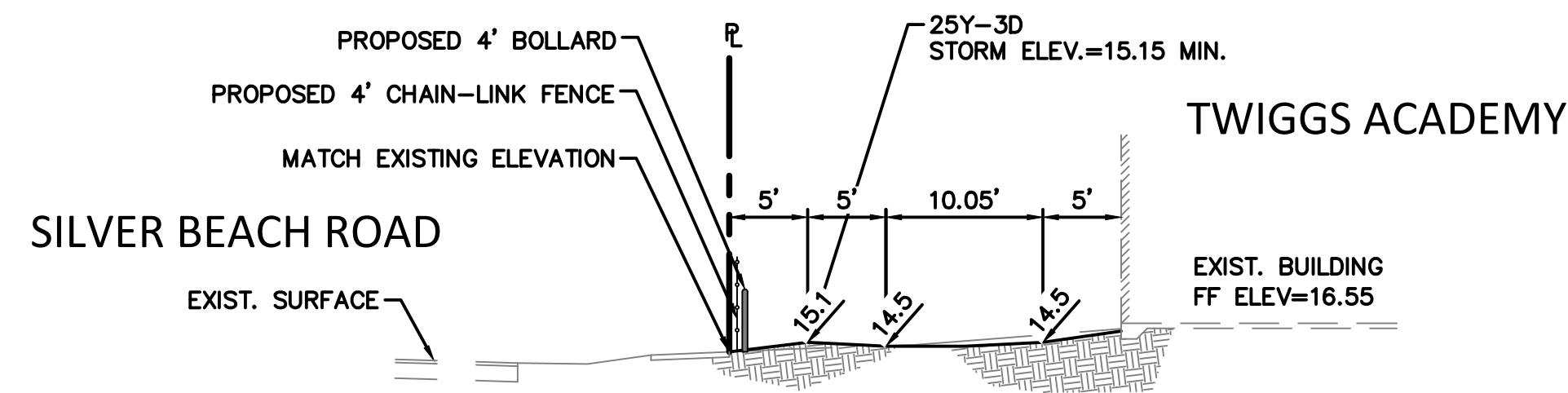
PAVING, GRADING AND DRAINAGE PLAN



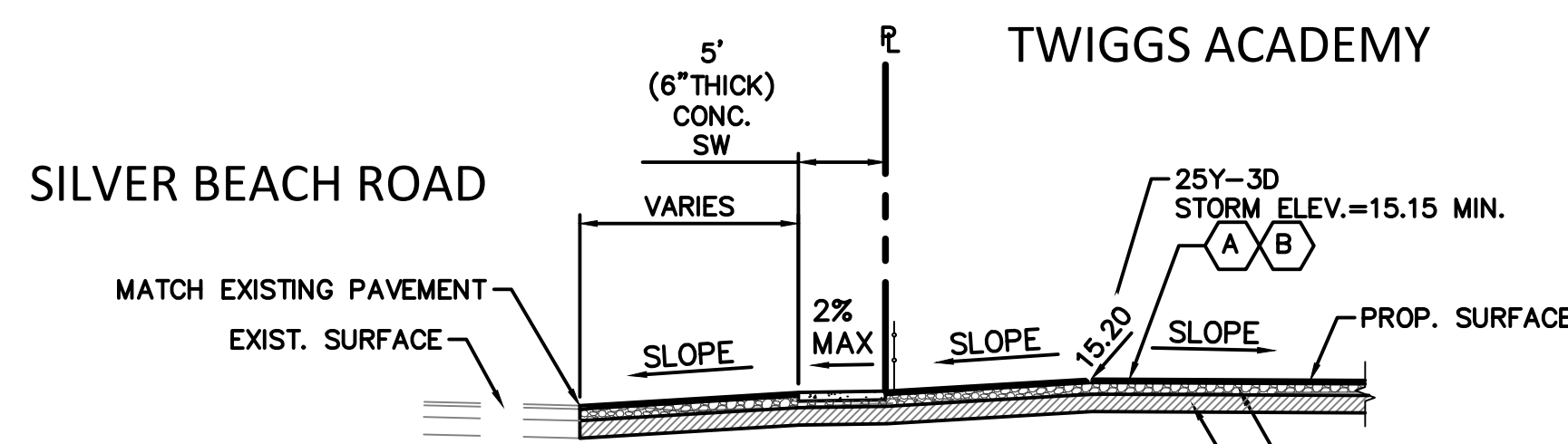
SECTION A-A



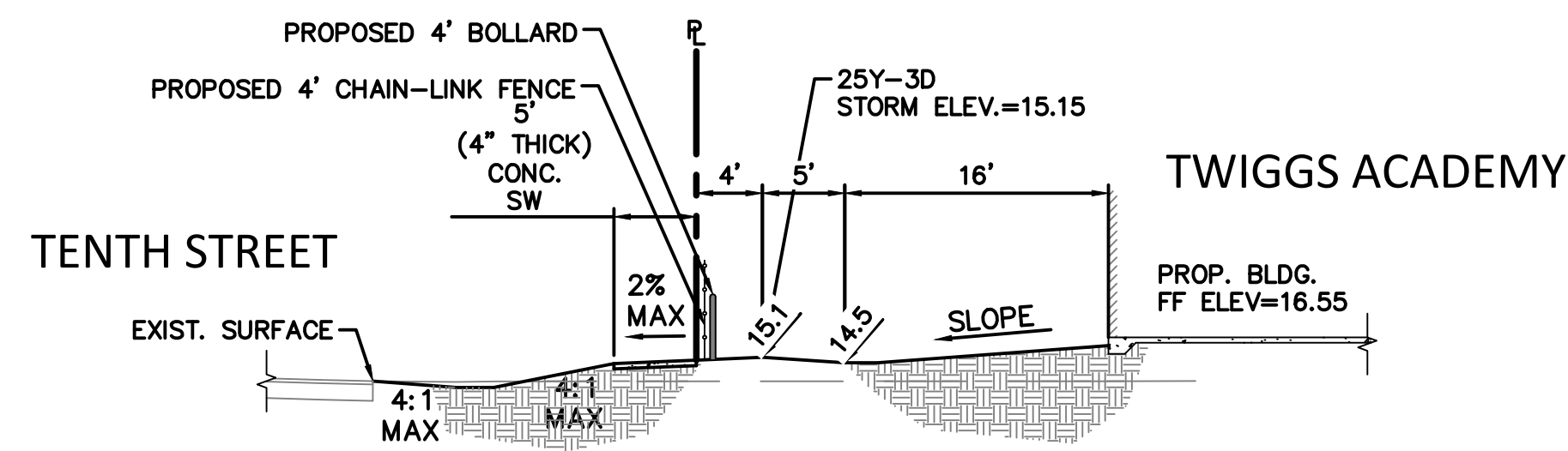
SECTION B-B



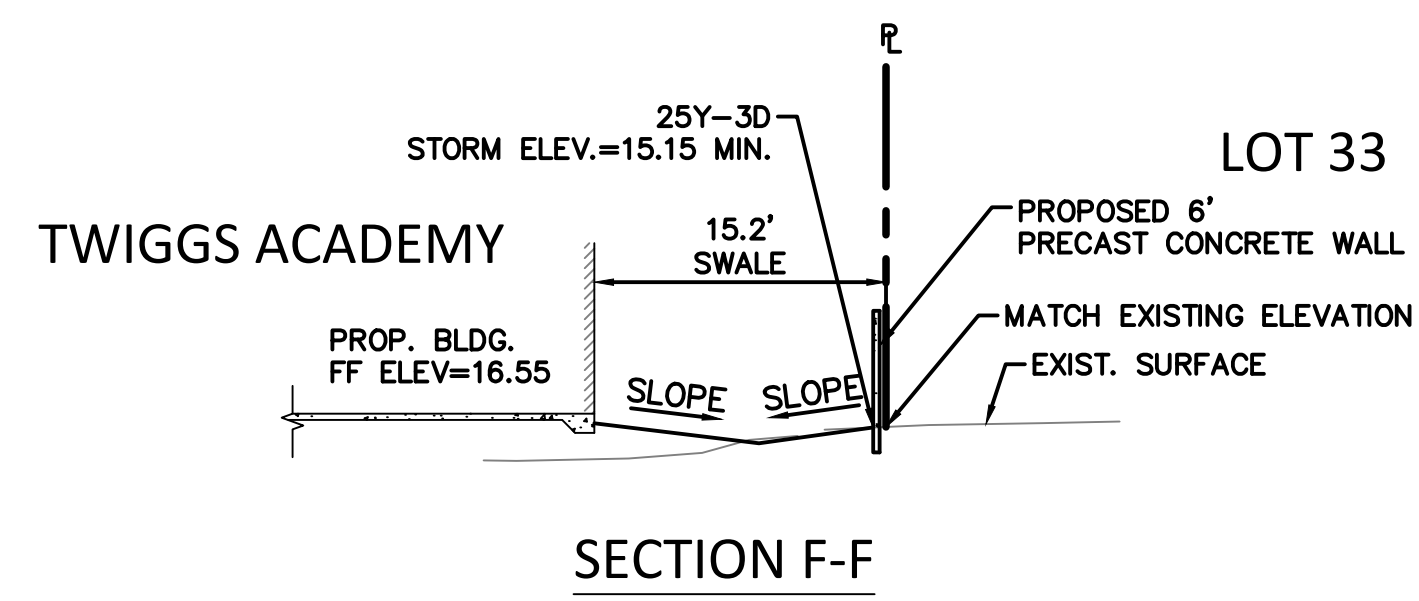
SECTION C-C



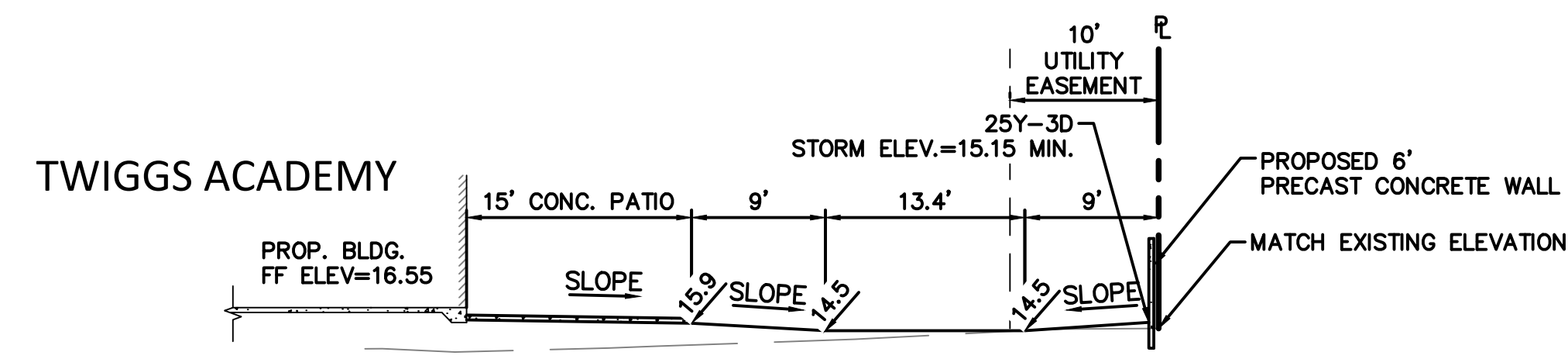
SECTION D-D



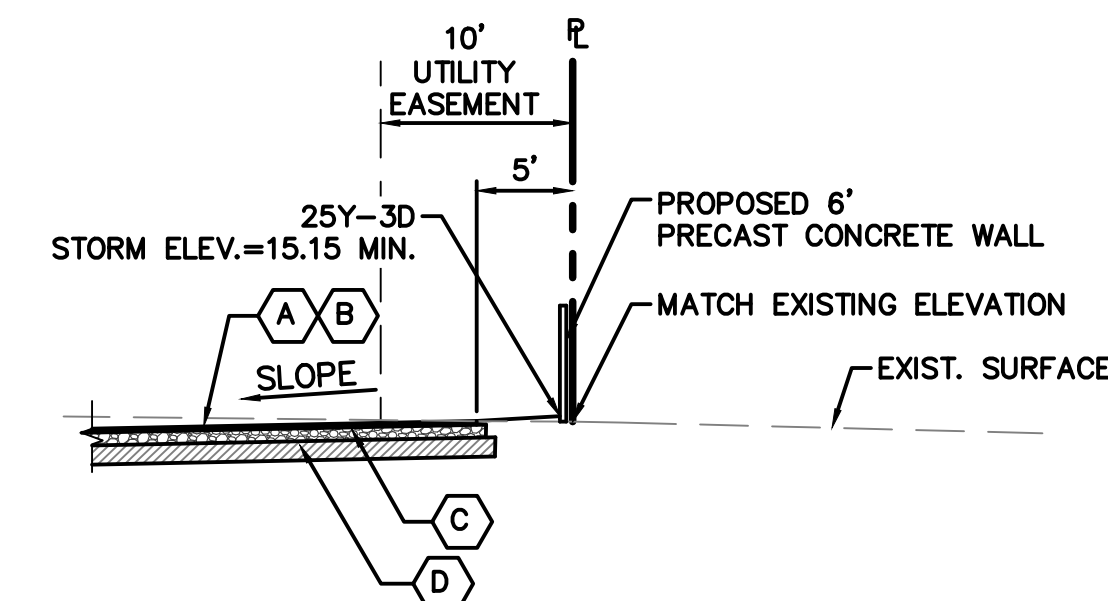
SECTION E-E



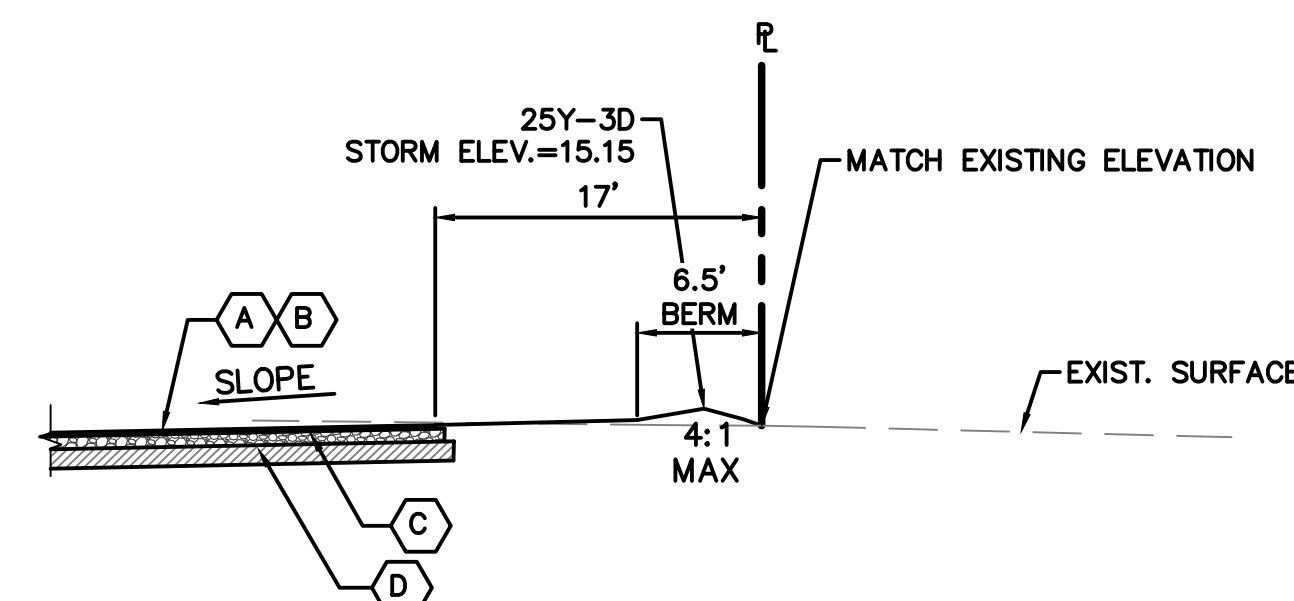
SECTION F-F



SECTION G-G



SECTION H-H



SECTION I-I

- (A) FINISH COURSE: 1 1/2" TYPE SP 9.5
STRUCTURAL COURSE: 1 1/2" TYPE SP-12.5 ASPHALTIC CONCRETE
- (B) BASE COURSE: OPTIONAL BASE GROUP 5 PER FDOT
STANDARD SPECIFICATION SECTION 285
- (C) 12" SUBGRADE COMPACTED TO 98% MAX
DENSITY AASHTO T-180, STABILIZE TO
LBR 40.

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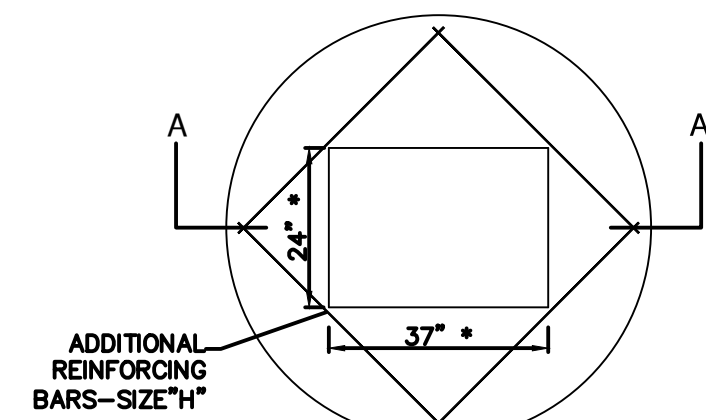
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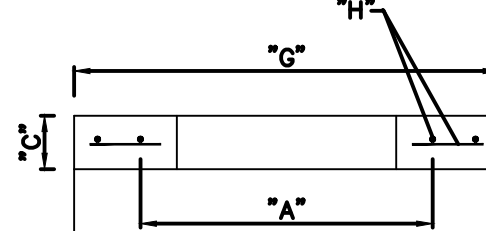
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SECTIONS

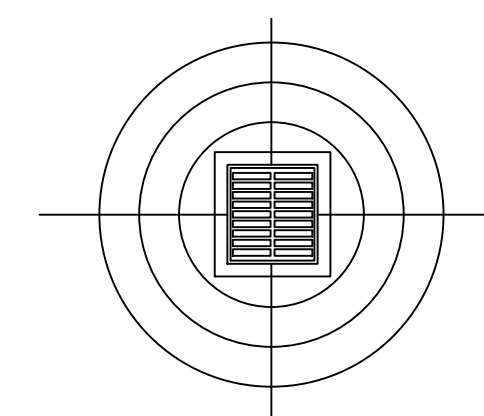


PLAN
 * ADJUST TO 24" X 24" OPENING FOR VALLEY GUTTER INLETS

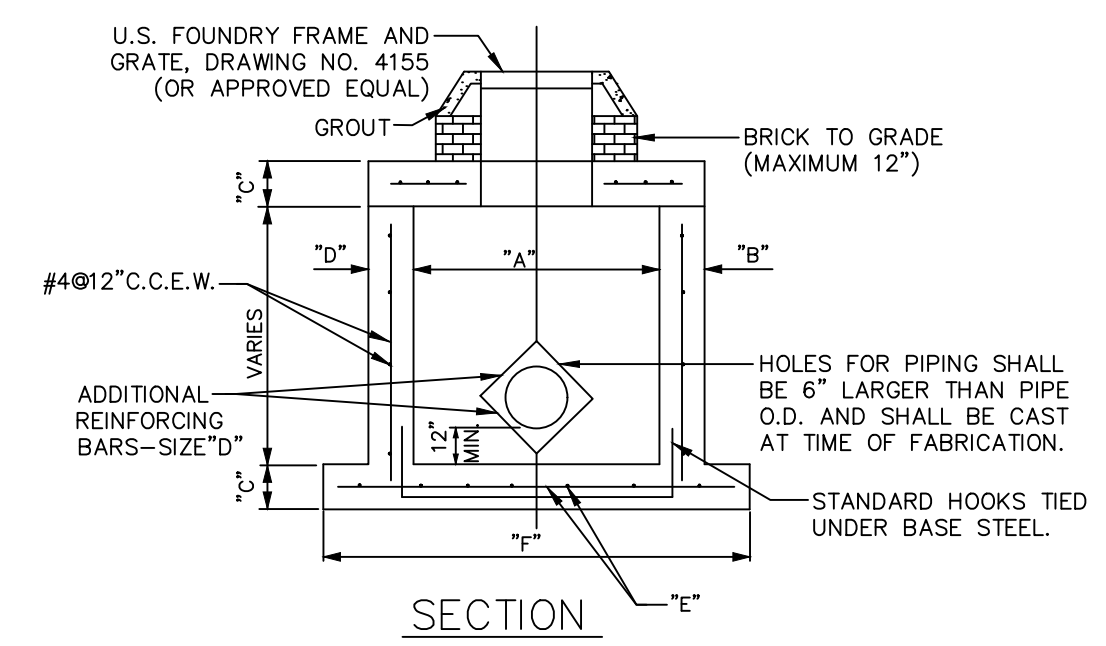


SECTION A-A

| "A" | "C" | "G" | "H" |
|---------|-----|---------|--------------|
| 4'-0" Ø | 8" | 5'-4" Ø | #4 @ 6" CCEW |
| 5'-0" Ø | 8" | 6'-4" Ø | #5 @ 8" CCEW |
| 6'-0" Ø | 10" | 7'-4" Ø | #5 @ 6" CCEW |
| 7'-0" Ø | 10" | 8'-4" Ø | #5 @ 6" CCEW |
| 8'-0" Ø | 10" | 9'-8" Ø | #5 @ 6" CCEW |



PLAN



SECTION

NOTE: SQUARE STRUCTURES MAY BE USED AS AN ALTERNATE EXCEPT FOR CURB INLETS UNLESS STRUCTURE CONTAINS A POLLUTION RETARDANT BAFFLE. SQUARE STRUCTURES MUST BE USED FOR POLLUTION RETARDANT STRUCTURES.

| TYPE | "A" | "B" | "C" | "D" | "E" | "F" |
|------|-------|-----|-----|--------------------------------|-------------|----------|
| C-4 | 4'-0" | 8" | 8" | #4@12" CCEW | #4@12" CCEW | 6'-4" Ø |
| C-5 | 5'-0" | 8" | 8" | #5@12" CCEW | #5@12" CCEW | 7'-4" Ø |
| C-6 | 6'-0" | 8" | 8" | #5@12" CCEW | #5@6" CCEW | 8'-4" Ø |
| C-7 | 7'-0" | 8" | 8" | #5@12" CCEW | #5@6" CCEW | 9'-4" Ø |
| C-8 | 8'-0" | 10" | 10" | 2-W.W.M. W/#4 @ 12" C.C. VERT. | #5@6" CCEW | 10'-4" Ø |

PRECAST CIRCULAR CATCH BASIN

PRECAST CONCRETE – TOP SLAB FOR CATCH BASIN

ON-SITE PAVING AND DRAINAGE SPECIFICATIONS:

- ALL ORGANIC OR DELETERIOUS MATERIAL SHALL BE REMOVED FROM WITHIN 5 FEET OF ANY EDGE OF PAVEMENT. ANY SUCH MATERIAL SHALL BE REPLACED BY APPROVED GRANULAR FILL WHICH SHALL BE PLACED AND IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEERING REPORT FOR THE SITE.
- STABILIZED SUBGRADE SHALL HAVE A LIMEROCK BEARING RATIO (LBR) OF 40 AND SHALL BE COMPACTED TO 98% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T-180.
- LIMEROCK BASE COURSE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 311 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS. THE MINIMUM PERCENTAGE OF CARBONATES OF CALCIUM AND MAGNESIUM SHALL BE 70%. LIQUID LIMIT 35 PLASTICITY 6, MIN LBR 100 OR ACCEPTABLE FDOT PRODUCT APPROVAL.
- ASPHALTIC CONCRETE TYPE S-3 SHALL CONFORM TO THE REQUIREMENTS OF SECTION 331 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS.
- PRIME COAT AND TACK COAT FOR BASE COURSES SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 300-1 THROUGH 300-7 OF FLORIDA D.O.T. STANDARD SPECIFICATIONS. PRIME COAT SHALL BE APPLIED AT A RATE OF 0.25 GALLONS PER SQUARE YARD AND TACK COAT AT A RATE OF 0.08 GALLONS PER SQUARE YARD UNLESS A VARIATION RATE IS APPROVED BY THE ENGINEER.
- ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS, EXCEPT DRAINAGE STRUCTURES.
- PRECAST CONCRETE MANHOLES AND CATCH BASINS SHALL MEET THE REQUIREMENTS OF A.S.T.M. SPECIFICATIONS C-478 AND 64T.
- CONCRETE FOR PRECAST MANHOLES AND CATCH BASINS SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
- REINFORCING STEEL FOR MANHOLES AND CATCH BASINS SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A-615 AND A-305, LATEST REVISION. GRADE 60 STEEL SHALL BE USED FOR TOP AND BOTTOM SLABS.
- ALL RE-BAR SPLICES IN CONCRETE STRUCTURES SHALL HAVE A MINIMUM LAP OF 24 BAR DIAMETERS.
- ALL JOINTS IN CONCRETE STRUCTURES SHALL BE FINISHED WATER TIGHT.
- ALL SPACES AROUND PIPING ENTERING OR LEAVING MANHOLES AND CATCH BASINS SHALL BE COMPLETELY FILLED WITH 2:1 WATERPROOF, NON-SHRINKING CEMENT MORTAR.
- REINFORCED CONCRETE PIPE (RCP) SHALL CONFORM TO THE REQUIREMENTS OF A.S.T.M. SPECIFICATION C-76, FOR CLASS III, WALL THICKNESS "B" REINFORCED CONCRETE PIPE, AND AS MODIFIED IN SECTION 941 OF FLORIDA D.O.T. STANDARD SPECIFICATION.
- ALL LABOR, MATERIALS AND METHODS OF CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE MINIMUM ENGINEERING AND CONSTRUCTION STANDARDS ADOPTED BY CITY OF VILLAGE OF PALM SPRINGS PUBLIC WORKS AND THE PLANS AND CONSTRUCTION SPECIFICATIONS. WHERE CONFLICTS OR OMISSIONS EXIST, THE CITY OF PORT ST LUCIE PUBLIC WORKS STANDARDS SHALL DICTATE. SUBSTITUTIONS AND DEVIATIONS FROM PLANS AND SPECIFICATIONS SHALL BE PERMITTED ONLY WHEN WRITTEN APPROVAL HAS BEEN ISSUED BY THE ENGINEER.
- THE EXISTING ELEVATIONS SHOWN ON THE GRADING PLAN INDICATES THE ELEVATION AT THE POINT DEPICTED ONLY, AND SHOULD NOT BE INTERPRETED AS INDICATING THE ELEVATIONS OF ANY OTHER POINT. THESE EXISTING ELEVATIONS ARE IN NO WAY AN INDICATOR OF SURFACE OR SUBSURFACE SOIL CONDITIONS.
- BITUMINOUS COATING REQUIRED FOR ALL CORRUGATED METAL PIPE (CMP).
- THE PROPERTY OWNER IS RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF ALL FEATURES OF THE SURFACE WATER MANAGEMENT SYSTEM AS OUTLINED BY THE DESIGN ENGINEER ON THE DRAWINGS. THE PROPERTY OWNER IS ALSO RESPONSIBLE FOR THE MAINTENANCE OF ALL INFRASTRUCTURES ON THE SITE.
- THE SITE CONTRACTOR SHALL APPLY FOR A COUNTY R-O-W PERMIT FOR ANY PROPOSED WORK WITHIN THE R-O-W OF SHIRLEY STREET.

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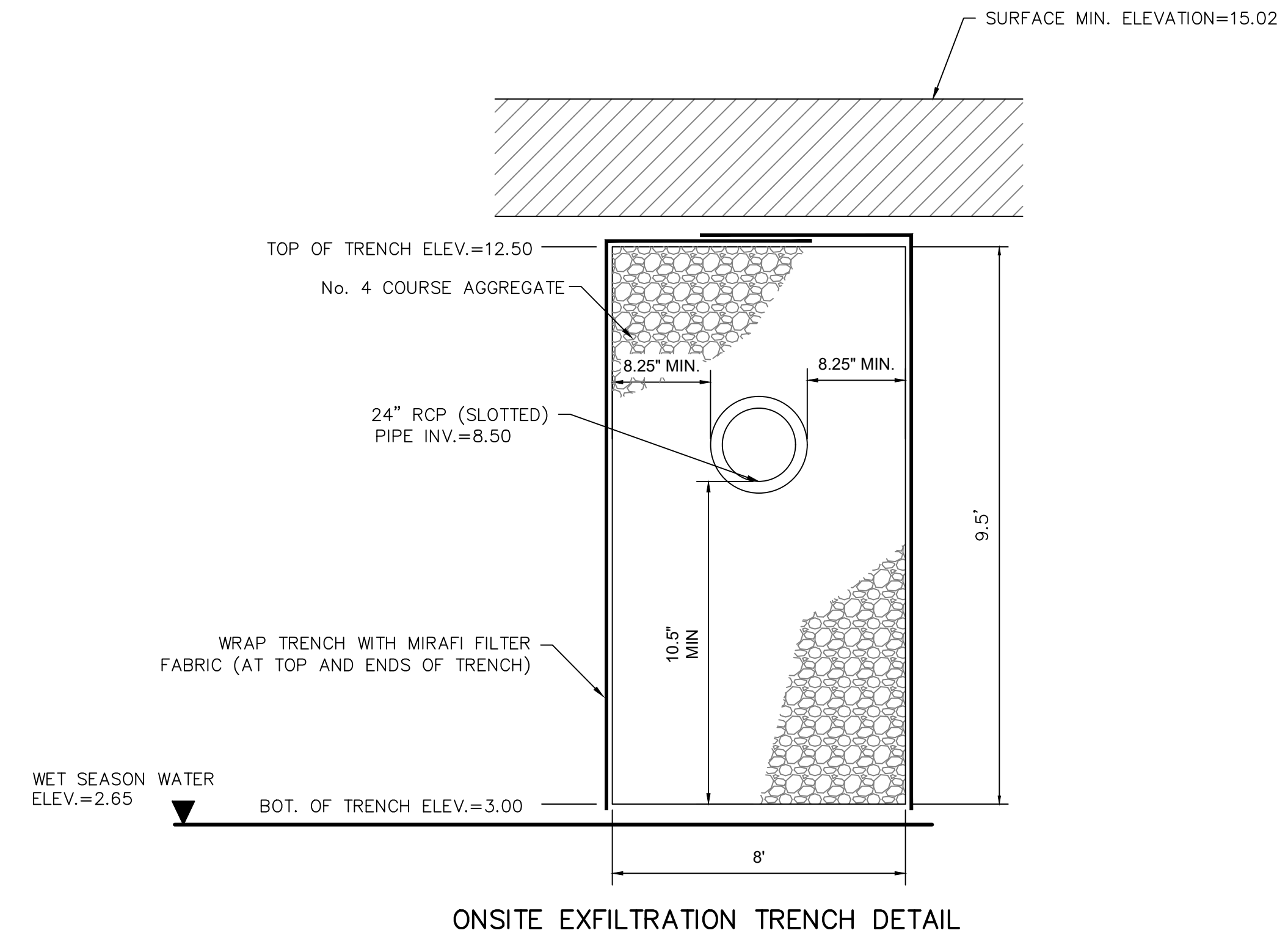
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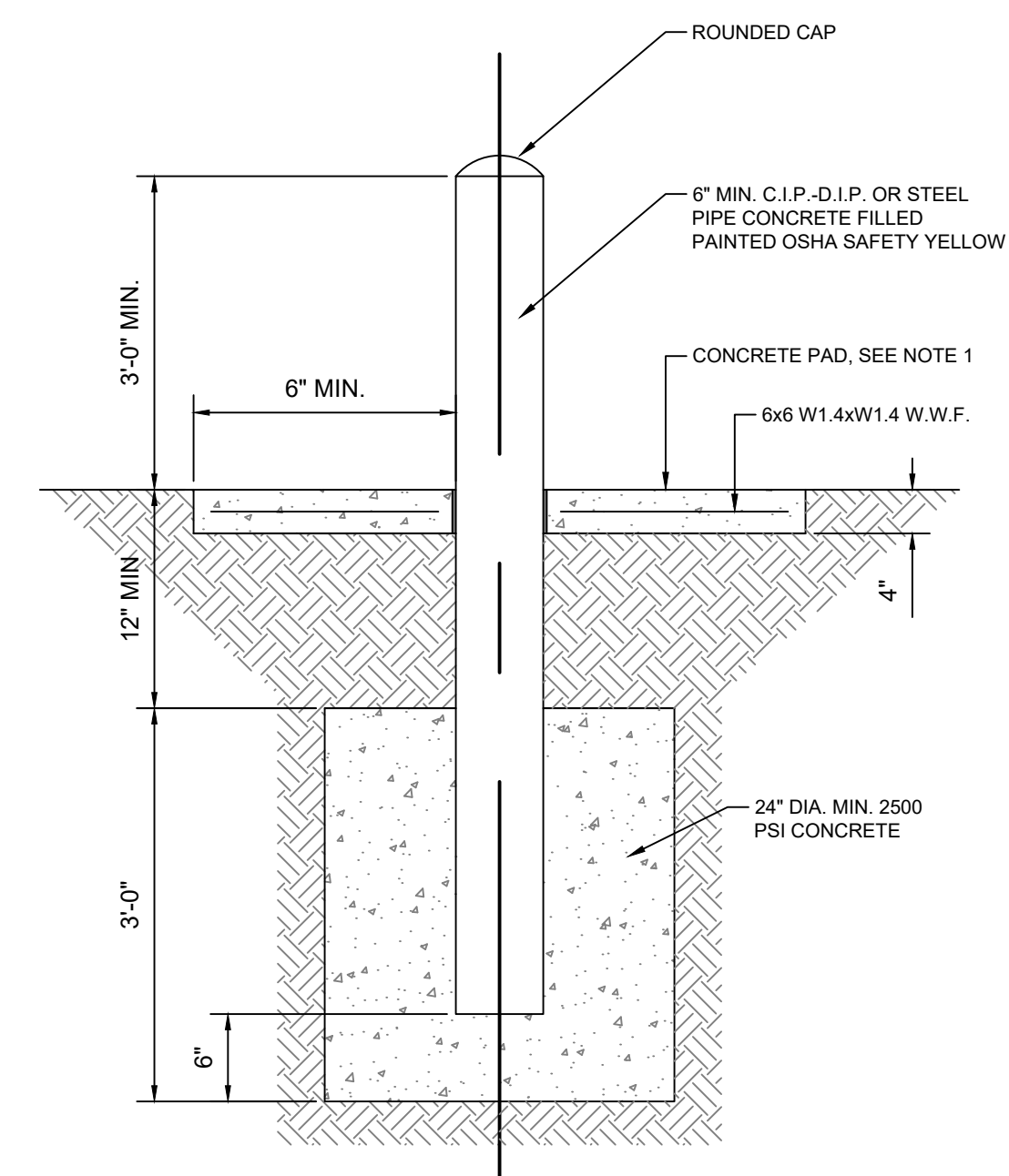
PROJ. NO.
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| DES. | DWN. | CHK. |
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SHEET NUMBER
CE3
 DATE DRAWN
 JULY 2025

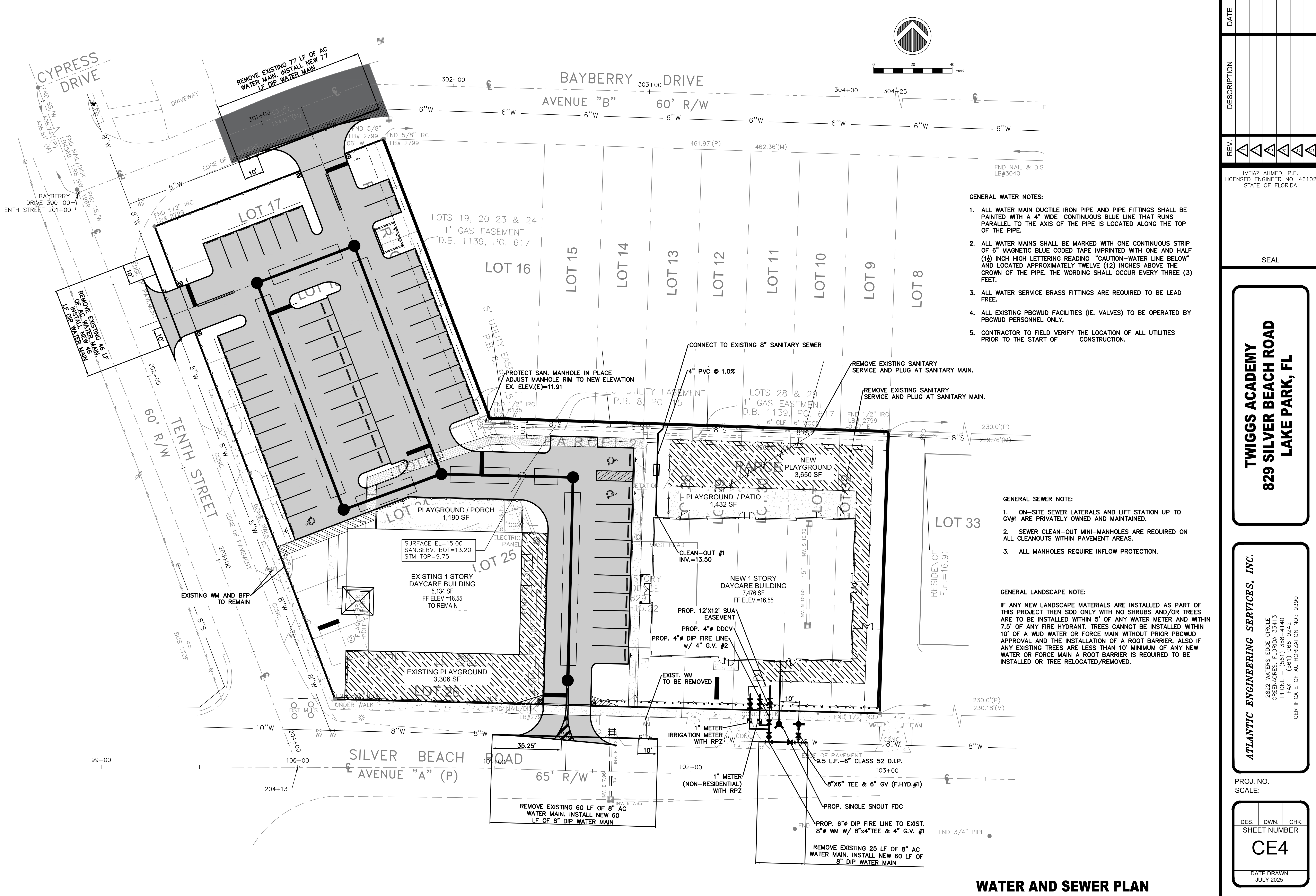


ONSITE EXFILTRATION TRENCH DETAIL



NOTES:
 1. PROVIDE SQUARE OR ROUND HOUSEKEEPING PAD AROUND BOLLARD IN UNPAVED AREAS

PAVING, GRADING AND DRAINAGE DETAILS



- GENERAL WATER NOTES:**
1. ALL WATER MAIN DUCTILE IRON PIPE AND PIPE FITTINGS SHALL BE PAINTED WITH A 4" WIDE CONTINUOUS BLUE LINE THAT RUNS PARALLEL TO THE AXIS OF THE PIPE IS LOCATED ALONG THE TOP OF THE PIPE.
 2. ALL WATER MAINS SHALL BE MARKED WITH ONE CONTINUOUS STRIP OF 6" MAGNETIC BLUE CODED TAPE IMPRINTED WITH ONE AND HALF (1 1/2) INCH HIGH LETTERING READING "CAUTION-WATER LINE BELOW" AND LOCATED APPROXIMATELY TWELVE (12) INCHES ABOVE THE CROWN OF THE PIPE. THE WORDING SHALL OCCUR EVERY THREE (3) FEET.
 3. ALL WATER SERVICE BRASS FITTINGS ARE REQUIRED TO BE LEAD FREE.
 4. ALL EXISTING PBCWUD FACILITIES (IE. VALVES) TO BE OPERATED BY PBCWUD PERSONNEL ONLY.
 5. CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.

- GENERAL SEWER NOTE:**
1. ON-SITE SEWER LATERALS AND LIFT STATION UP TO GV#1 ARE PRIVATELY OWNED AND MAINTAINED.
 2. SEWER CLEAN-OUT MINI-MANHOLES ARE REQUIRED ON ALL CLEANOUTS WITHIN PAVEMENT AREAS.
 3. ALL MANHOLES REQUIRE INFLOW PROTECTION.

GENERAL LANDSCAPE NOTE:

IF ANY NEW LANDSCAPE MATERIALS ARE INSTALLED AS PART OF THIS PROJECT THEN SOD ONLY WITH NO SHRUBS AND/OR TREES ARE TO BE INSTALLED WITHIN 5' OF ANY WATER METER AND WITHIN 7.5' OF ANY FIRE HYDRANT. TREES CANNOT BE INSTALLED WITHIN 10' OF A WUD WATER OR FORCE MAIN WITHOUT PRIOR PBCWUD APPROVAL AND THE INSTALLATION OF A ROOT BARRIER. ALSO IF ANY EXISTING TREES ARE LESS THAN 10' MINIMUM OF ANY NEW WATER OR FORCE MAIN A ROOT BARRIER IS REQUIRED TO BE INSTALLED OR TREE RELOCATED/REMOVED.

| REV. | DESCRIPTION | DATE |
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IMTIAZ AHMED, P.E.
LICENSED ENGINEER NO. 46102
STATE OF FLORIDA

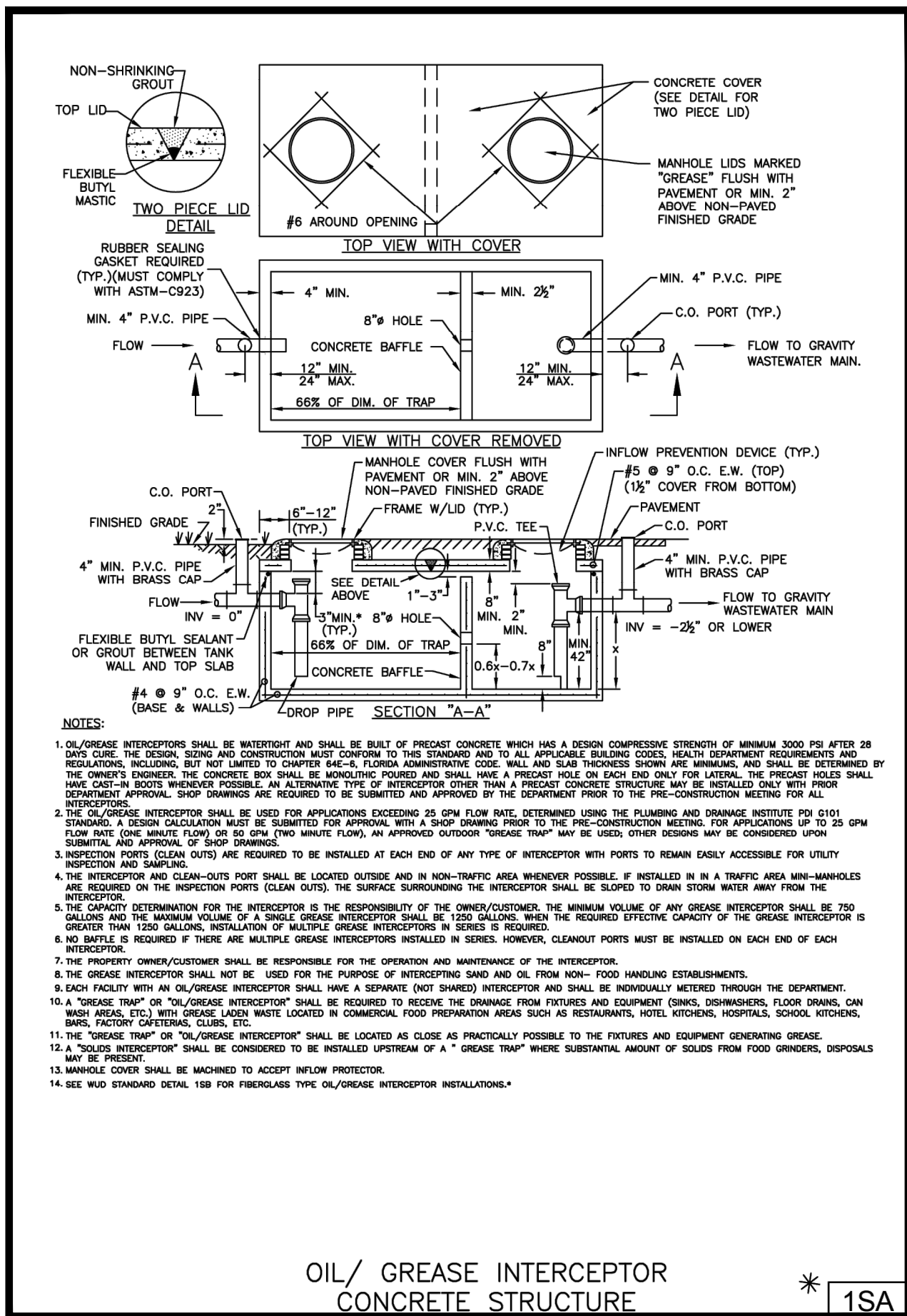
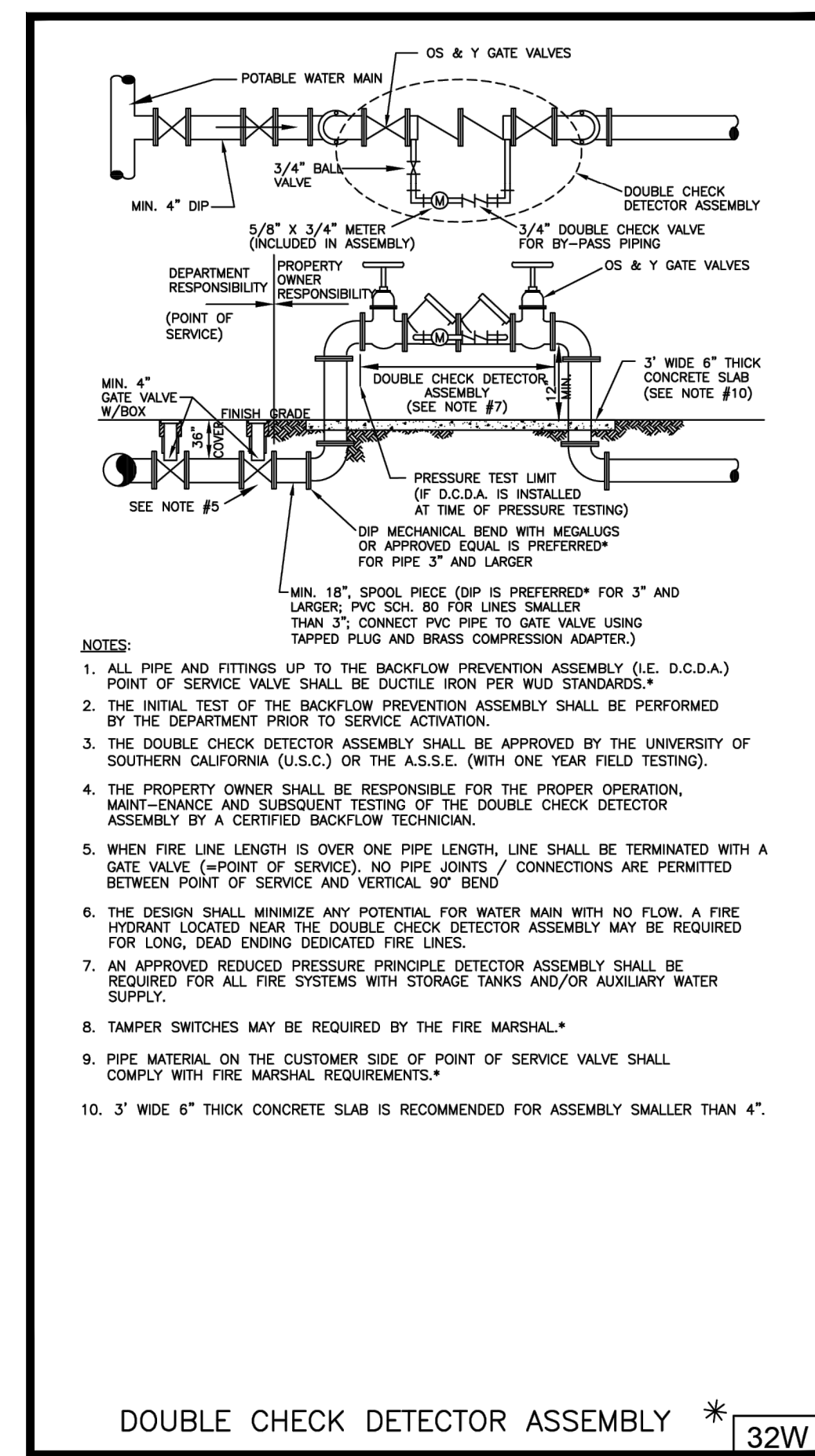
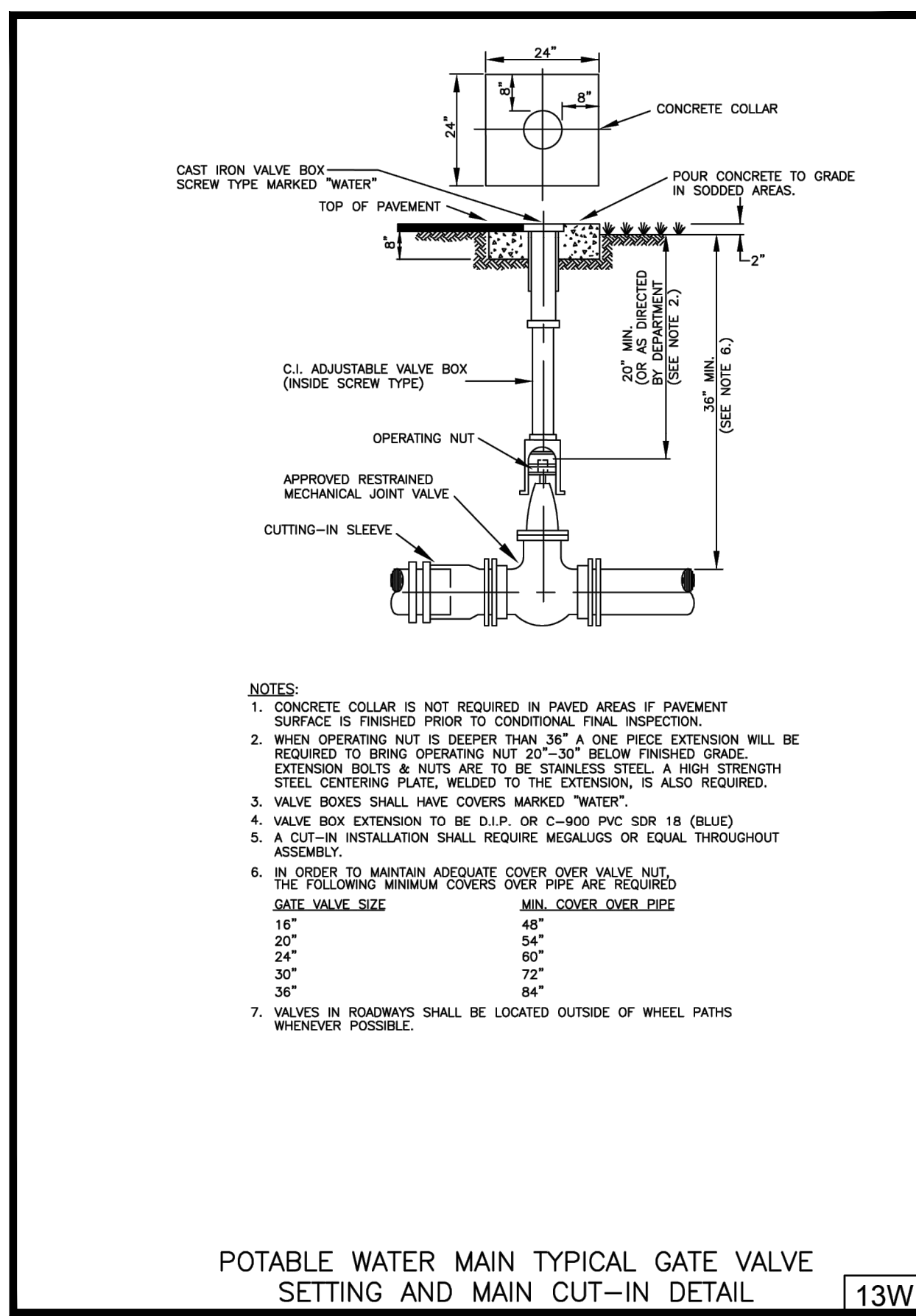
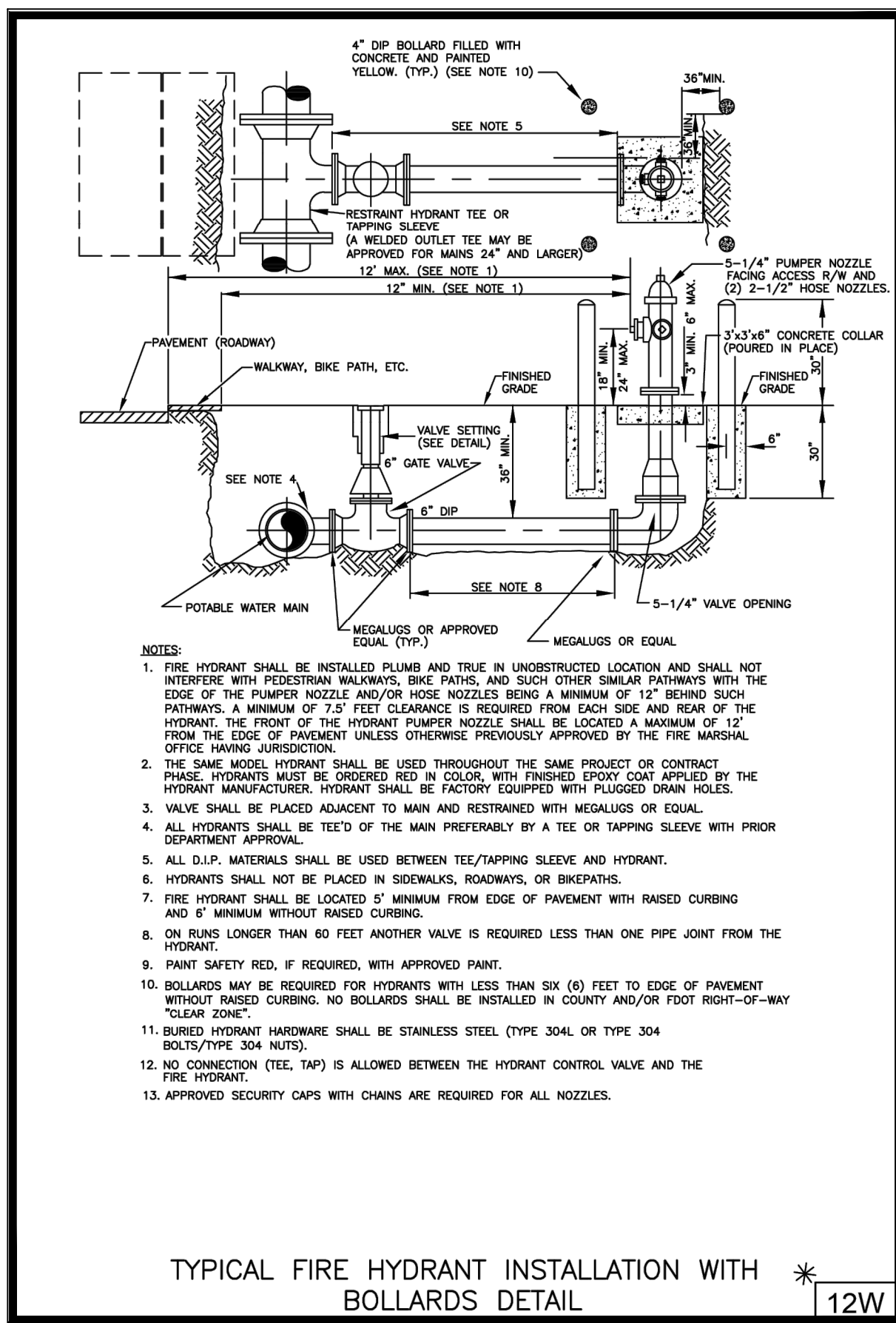
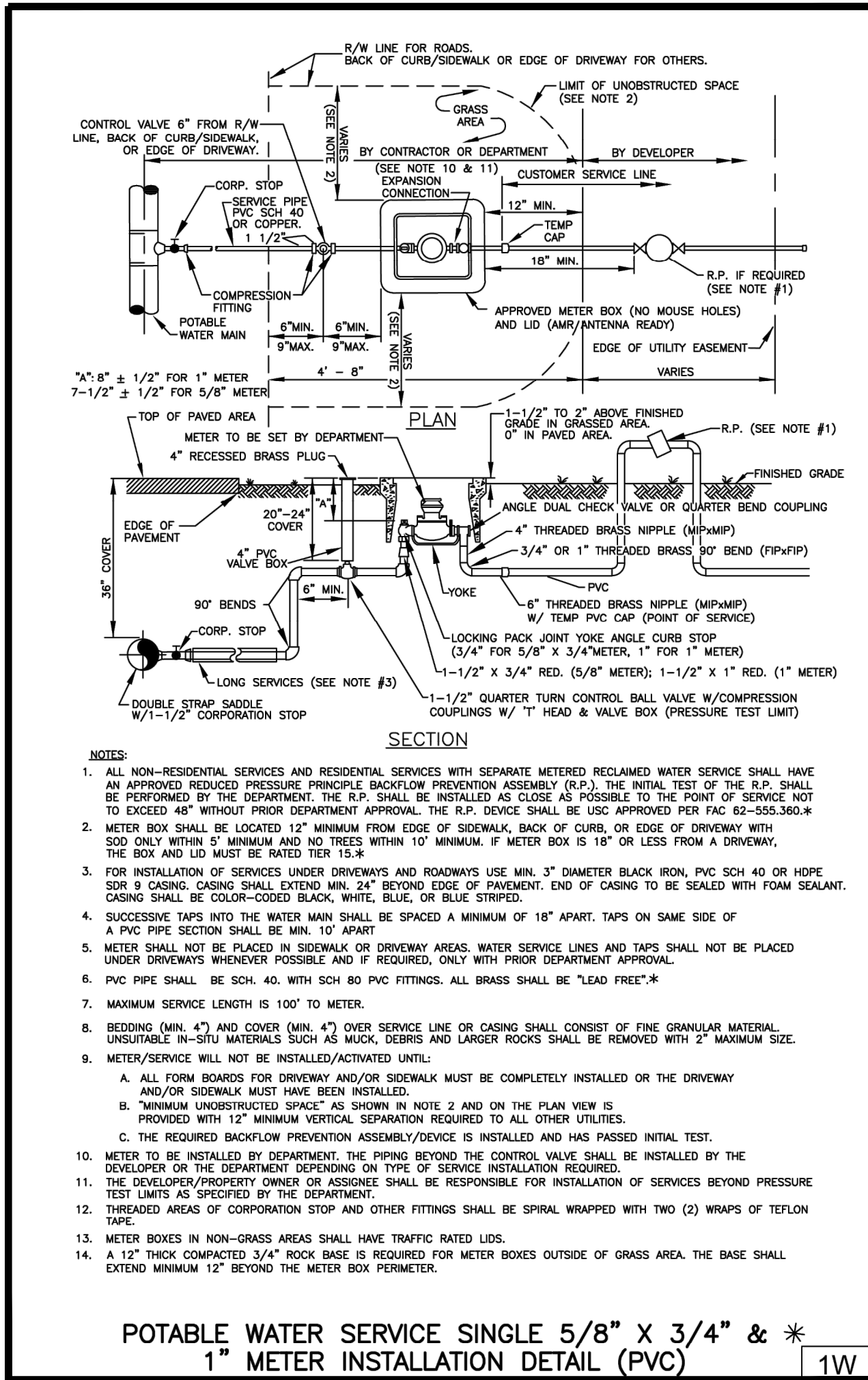
**TWIGGS ACADEMY
829 SILVER BEACH ROAD
LAKE PARK, FL**

ATLANTIC ENGINEERING SERVICES, INC.
2822 WATERS EDGE CIRCLE
GREENACRES, FLORIDA 33413
PHONE - (561) 358-4140
FAX - (561) 966-9242
CERTIFICATE OF AUTHORIZATION NO.: 9390

PROJ. NO.
SCALE:

| DES. | DWN. | CHK. |
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| SHEET NUMBER | | |
| CE4 | | |
| DATE DRAWN JULY 2025 | | |

WATER AND SEWER PLAN



| REV. | DESCRIPTION | DATE |
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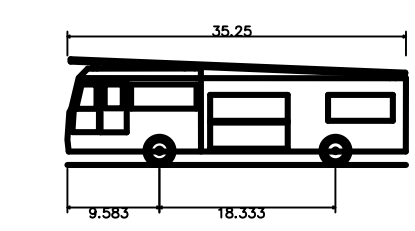
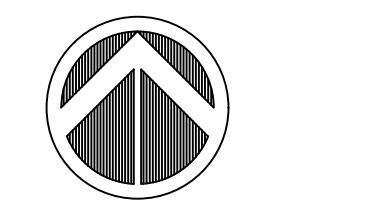
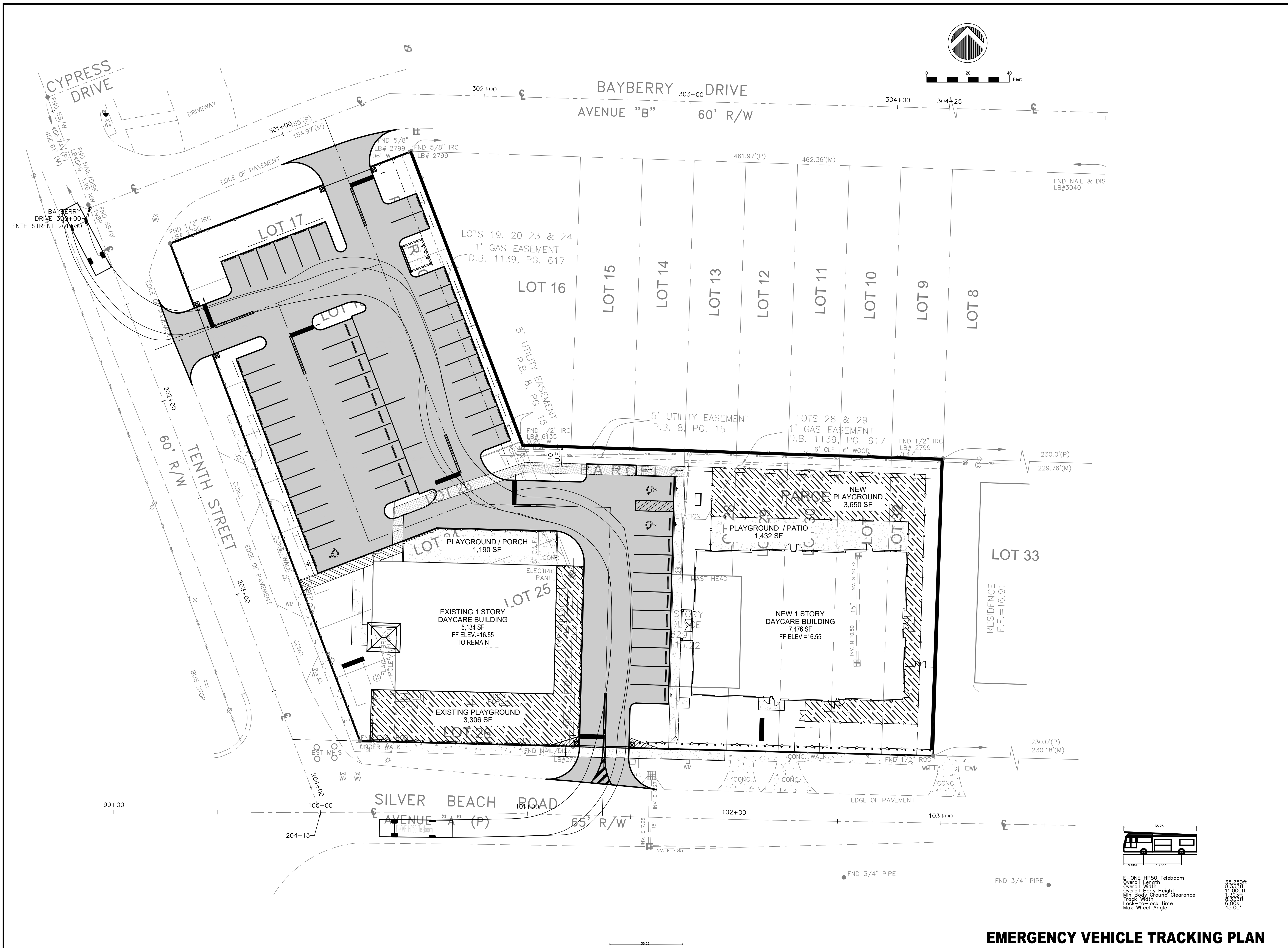
IMTIAZ AHMED, P.E.
LICENSED ENGINEER NO. 46102
STATE OF FLORIDA

TWIGGS ACADEMY
829 SILVER BEACH ROAD
LAKE PARK, FL

ATLANTIC ENGINEERING SERVICES, INC.
2822 WATERS EDGE CIRCLE
GREENACRES, FLORIDA 33413
PHONE - (561) 358-4140
FAX - (561) 966-9242
CERTIFICATE OF AUTHORIZATION NO.: 9390

PROJ. NO.
SCALE:

| DES. | DWN. | CHK. |
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| SHEET NUMBER | | |
| CE5 | | |
| DATE DRAWN MARCH 2026 | | |



E-ONE HP50 Teleboom
 Overall Length 35.25'
 Overall Width 8.33'
 Overall Body Height 11.00'
 Min Body Ground Clearance 1.33'
 Track Width 8.33'
 Lock-to-lock Time 6.00'
 Max Wheel Angle 45.00'

EMERGENCY VEHICLE TRACKING PLAN

| REV. | DESCRIPTION | DATE |
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 LICENSED ENGINEER NO. 46102
 STATE OF FLORIDA

SEAL

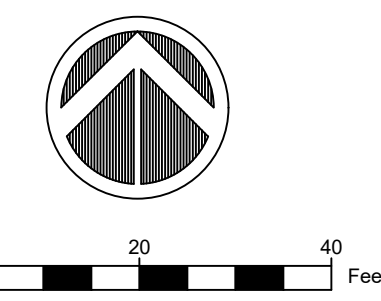
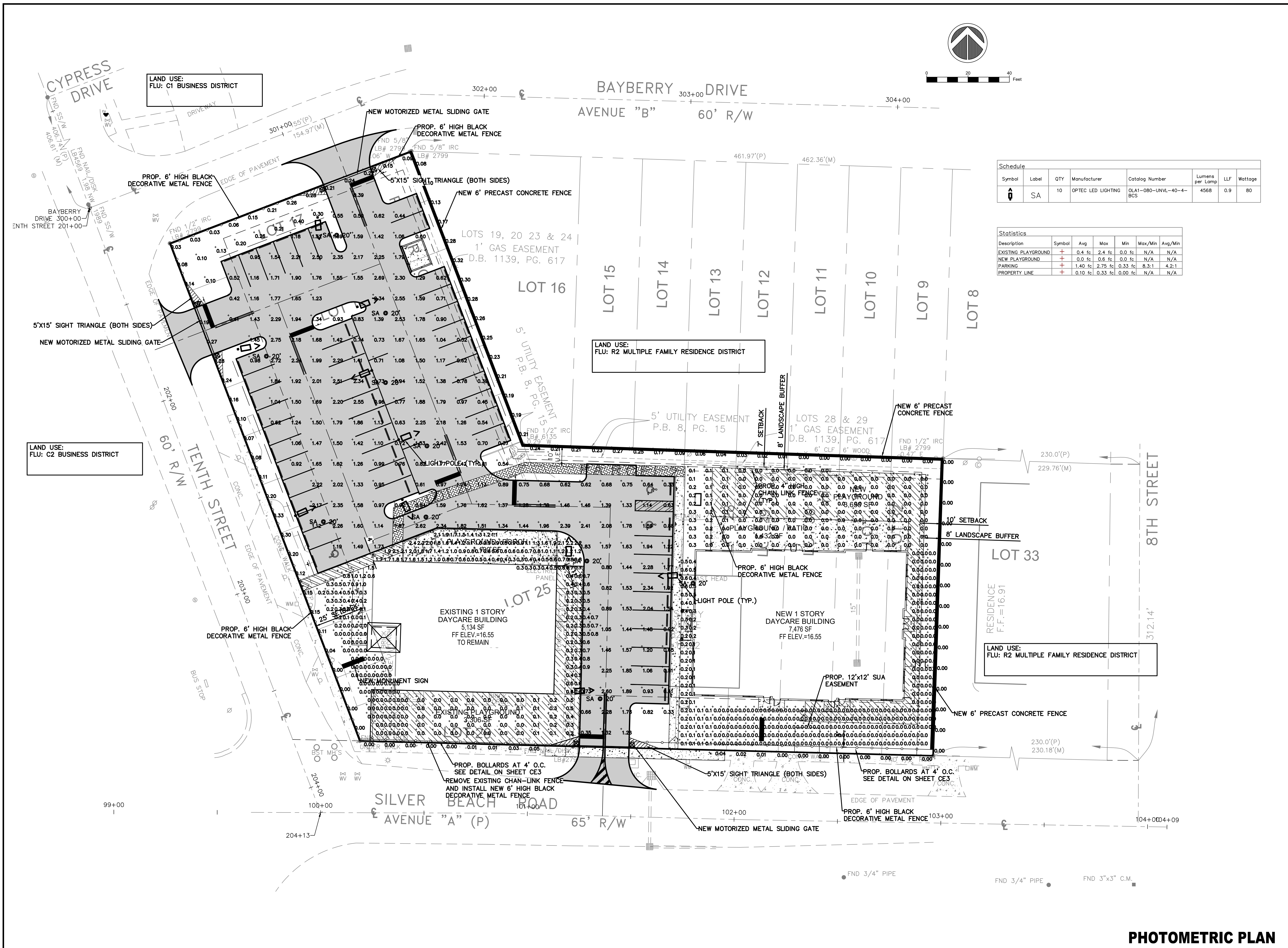
TWIGGS ACADEMY
829 SILVER BEACH ROAD
LAKE PARK, FL

ATLANTIC ENGINEERING SERVICES, INC.
 2822 WATERS EDGE CIRCLE
 GREENACRES, FLORIDA 33413
 PHONE - (561) 358-4140
 FAX - (561) 966-9242
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PROJ. NO.
 SCALE:

| DES. | DWN. | CHK. |
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SHEET NUMBER
CE7a
 DATE DRAWN
 OCT 2025



LAND USE:
FLU: C1 BUSINESS DISTRICT

LAND USE:
FLU: C2 BUSINESS DISTRICT

LAND USE:
FLU: R2 MULTIPLE FAMILY RESIDENCE DISTRICT

LAND USE:
FLU: R2 MULTIPLE FAMILY RESIDENCE DISTRICT

| Symbol | Label | QTY | Manufacturer | Catalog Number | Lumens per Lamp | LLF | Wattage |
|--------|-------|-----|--------------------|------------------------|-----------------|-----|---------|
| ⬇ | SA | 10 | OPTEC LED LIGHTING | QLA1-080-UNVL-40-4-BCS | 4568 | 0.9 | 80 |

| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min |
|---------------------|--------|---------|---------|---------|---------|---------|
| EXISTING PLAYGROUND | + | 0.4 fc | 2.4 fc | 0.0 fc | N/A | N/A |
| NEW PLAYGROUND | + | 0.0 fc | 0.6 fc | 0.0 fc | N/A | N/A |
| PARKING | + | 1.40 fc | 2.75 fc | 0.33 fc | 8.3:1 | 4.2:1 |
| PROPERTY LINE | + | 0.10 fc | 0.33 fc | 0.00 fc | N/A | N/A |

| REV. | DESCRIPTION | DATE |
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| 2 | | |
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| 5 | | |

SEAL

TWIGGS ACADEMY
829 SILVER BEACH ROAD
LAKE PARK, FL

ATLANTIC ENGINEERING SERVICES, INC.
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GREENACRES, FLORIDA 33413
PHONE - (561) 358-4140
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CERTIFICATE OF AUTHORIZATION NO.: 9390

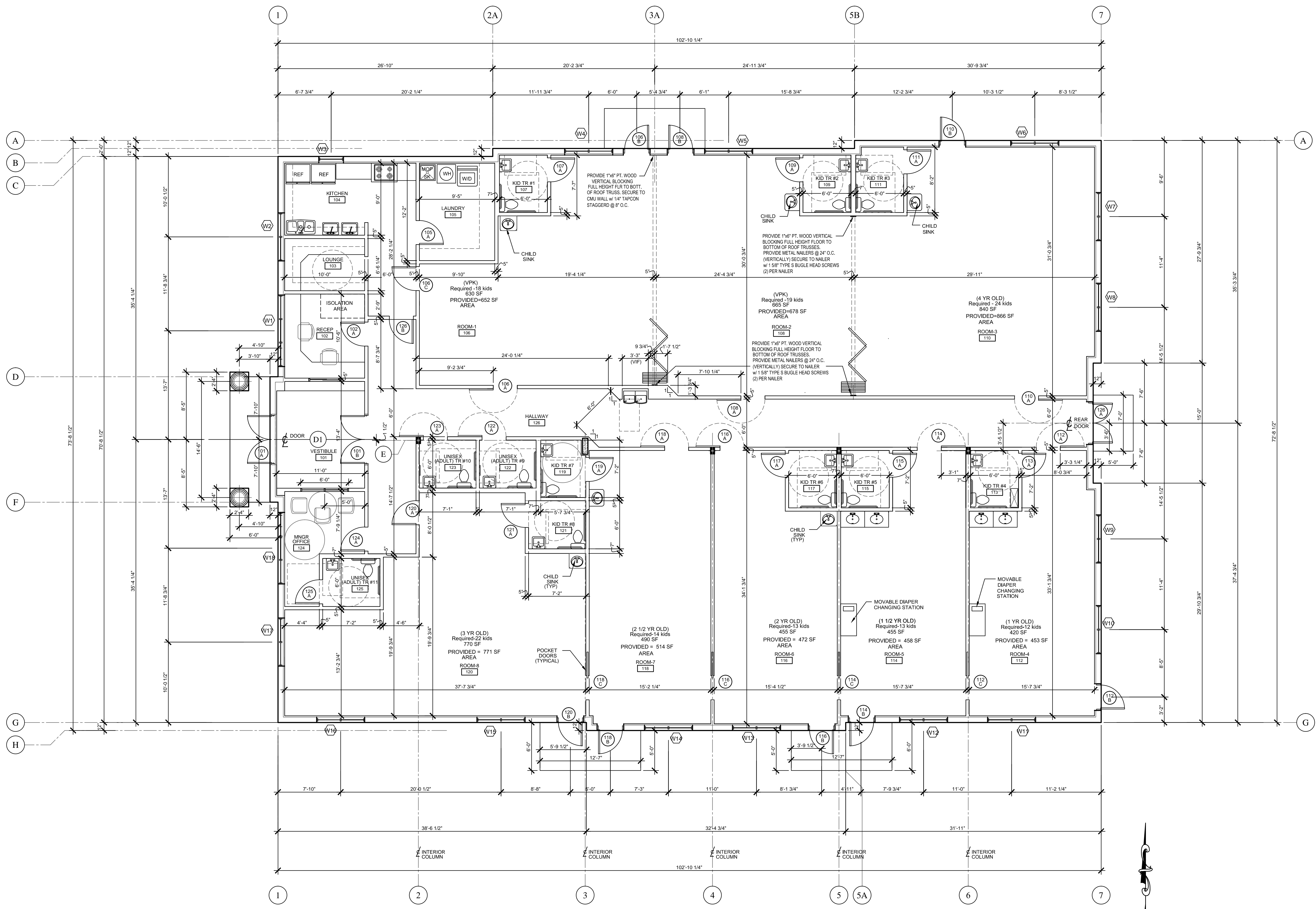
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| DES. | DWN. | CHK. |
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SHEET NUMBER
PH1

DATE DRAWN
JULY 2025

PHOTOMETRIC PLAN



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

| REV. | DESCRIPTION | DATE |
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| 1 | | |
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IMTIAZ AHMED, P.E.
LICENSED ENGINEER NO. 46102
STATE OF FLORIDA

SEAL

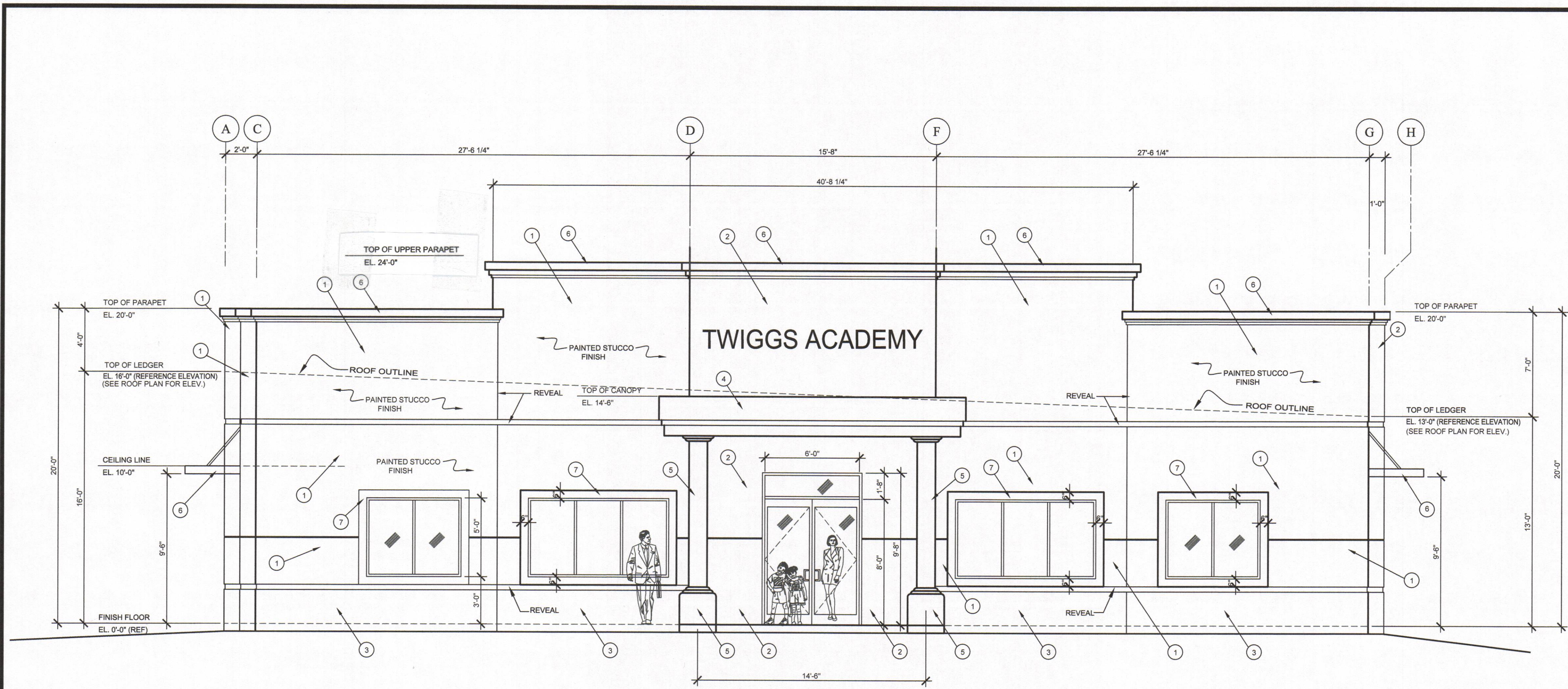
TWIGGS ACADEMY
101 10th STREET
LAKE PARK, 33403

ATLANTIC ENGINEERING SERVICES, INC.
2822 WATERS EDGE CIRCLE
GREENACRES, FLORIDA 33413
PHONE (561) 388-2140
FAX (561) 388-2140
CERTIFICATE OF AUTHORIZATION NO.: 9390

PROJ. NO. 0000
SCALE: AS SHOWN

| | | |
|--------------|------|------|
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| DES. | DWN. | CHK. |
| SHEET NUMBER | | |
| A1 | | |
| 11/19/2025 | | |
| DATE DRAWN | | |

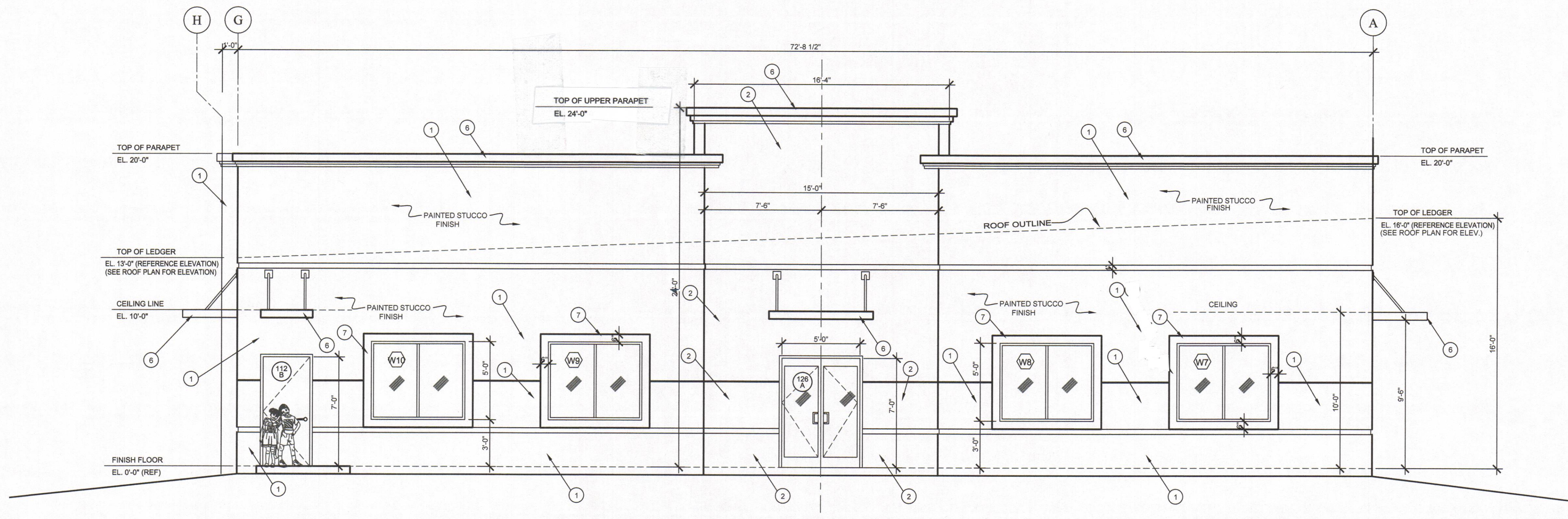
FLOOR PLAN



1 FRONT ELEVATION (WEST)
SCALE: 1/4" = 1'-0"

COLOR LEGEND

| | | |
|---|--------------------------|------|
| 1 | SW 1666 VENETIAN YELLOW | 70% |
| 2 | SW 6655 ADVENTURE ORANGE | 22% |
| 3 | SW 6825 IZMIR PURPLE | 9% |
| 4 | SW 7076 CYBERSPACE | 5% |
| 5 | SW 7660 EARL GRAY | 6% |
| 6 | SW 6258 TRICORN BLACK | 5% |
| 7 | SW 7006 EXTRA WHITE | 3.5% |



2 REAR ELEVATION (EAST)
SCALE: 1/4" = 1'-0"

COLOR LEGEND

| | | |
|---|--------------------------|-----|
| 1 | SW 1666 VENETIAN YELLOW | 76% |
| 2 | SW 6655 ADVENTURE ORANGE | 24% |
| 3 | | 0% |
| 4 | | 0% |
| 5 | | 0% |
| 6 | SW 6258 TRICORN BLACK | 6% |
| 7 | SW 7006 EXTRA WHITE | 3% |

| REV. | DESCRIPTION | DATE |
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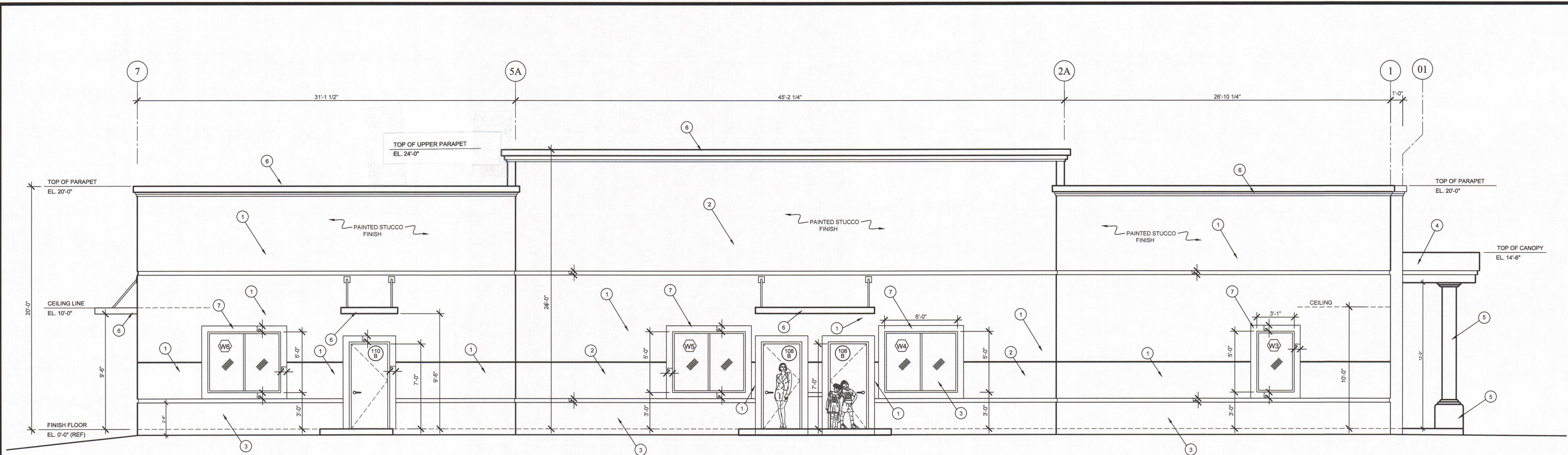
TWIGGS ACADEMY
101 10th STREET
LAKE PARK, 33403

ATLANTIC ENGINEERING SERVICES, INC.
2822 WATERS EDGE CIRCLE
GREENACRES, FLORIDA 33413
PHONE - (561) 358-4140
FAX - (561) 866-9242
CERTIFICATE OF AUTHORIZATION NO.: 9390

PROJ. NO. 0000
SCALE: AS SHOWN

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|--------------|-----|-----|
| ddt | | |
| DES. | DWN | CHK |
| SHEET NUMBER | | |
| A2 | | |
| 11/19/2025 | | |
| DATE DRAWN | | |

FRONT and REAR ELEVATIONS



1 SIDE ELEVATION (NORTH)
SCALE: 1/4" = 1'-0"

COLOR LEGEND

| | | | |
|---|----------------------------------|---|------------------------------|
| 1 | SW 1666 VENETIAN YELLOW-----72% | 4 | -----0% |
| 2 | SW 6655 ADVENTURE ORANGE-----18% | 5 | -----0% |
| 3 | SW 6825 IZMIR PURPLE-----9.5% | 6 | SW 6258 TRICORN BLACK-----5% |
| | | 7 | SW 7006 EXTRA WHITE-----2% |



2 SIDE ELEVATION (SOUTH)
SCALE: 1/4" = 1'-0"

COLOR LEGEND

| | | | |
|---|----------------------------------|---|------------------------------|
| 1 | SW 1666 VENETIAN YELLOW-----78% | 4 | -----0% |
| 2 | SW 6655 ADVENTURE ORANGE-----16% | 5 | -----0% |
| 3 | SW 6825 IZMIR PURPLE-----9.4% | 6 | SW 6258 TRICORN BLACK-----5% |
| | | 7 | SW 7006 EXTRA WHITE-----2% |

| REV | DESCRIPTION | DATE |
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| 5 | | |

IMTIAZ AHMED, P.E.
LICENSED ENGINEER NO. 46102
STATE OF FLORIDA

SEAL

TWIGGS ACADEMY
101 10th STREET
LAKE PARK, 33403

ATLANTIC ENGINEERING SERVICES, INC.
2822 WATERS EDGE CIRCLE
GREENACRES, FLORIDA 33413
PHONE - (561) 358-4140
FAX - (561) 966-9242
CERTIFICATE OF AUTHORIZATION NO.: 9390

SIDE ELEVATIONS

PROJ. NO. 0000
SCALE: AS SHOWN

| | |
|--------------------------|------|
| ddt | CHK |
| DES. | DWN. |
| SHEET NUMBER | |
| A3 | |
| 11/19/2025 DATE DRAWN | |



Twiggs Academy
829 Silver Beach Road
Lake Park, FL 33403

Date Created:
05/20/2025

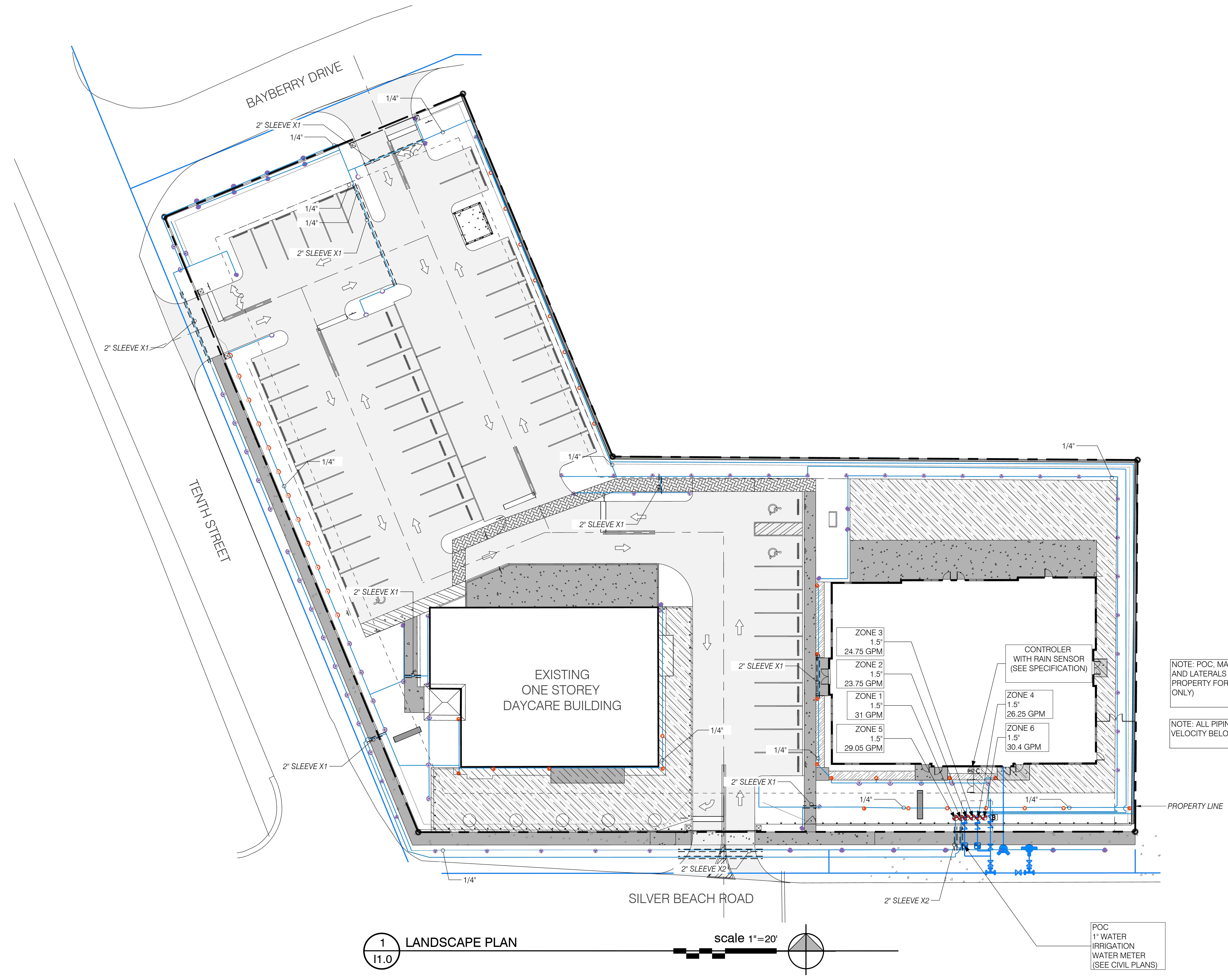
Document Phase:
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| date | remark |
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| 06/20/25 | ISSUED FOR CLIENT REVIEW |
| 07/23/25 | ISSUED FOR REVIEW |
| 12/15/25 | UPDATED AS PER TOWN OF LAKE PARK REVIEW |
| 03/10/26 | REVISED PER NEW SITE PLAN |
| 04/21/26 | REVISED PER NEW SITE PLAN |
| 05/12/26 | REVISED PER CONSULTANT REVIEW |

PROJECT NO. 325LKP

IRRIGATION PLAN

11.0



THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL THE REQUIREMENTS OF APPENDIX F, CONSTRUCTION AND BUILDING CODES FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, OF THE FLORIDA BUILDING CODE.

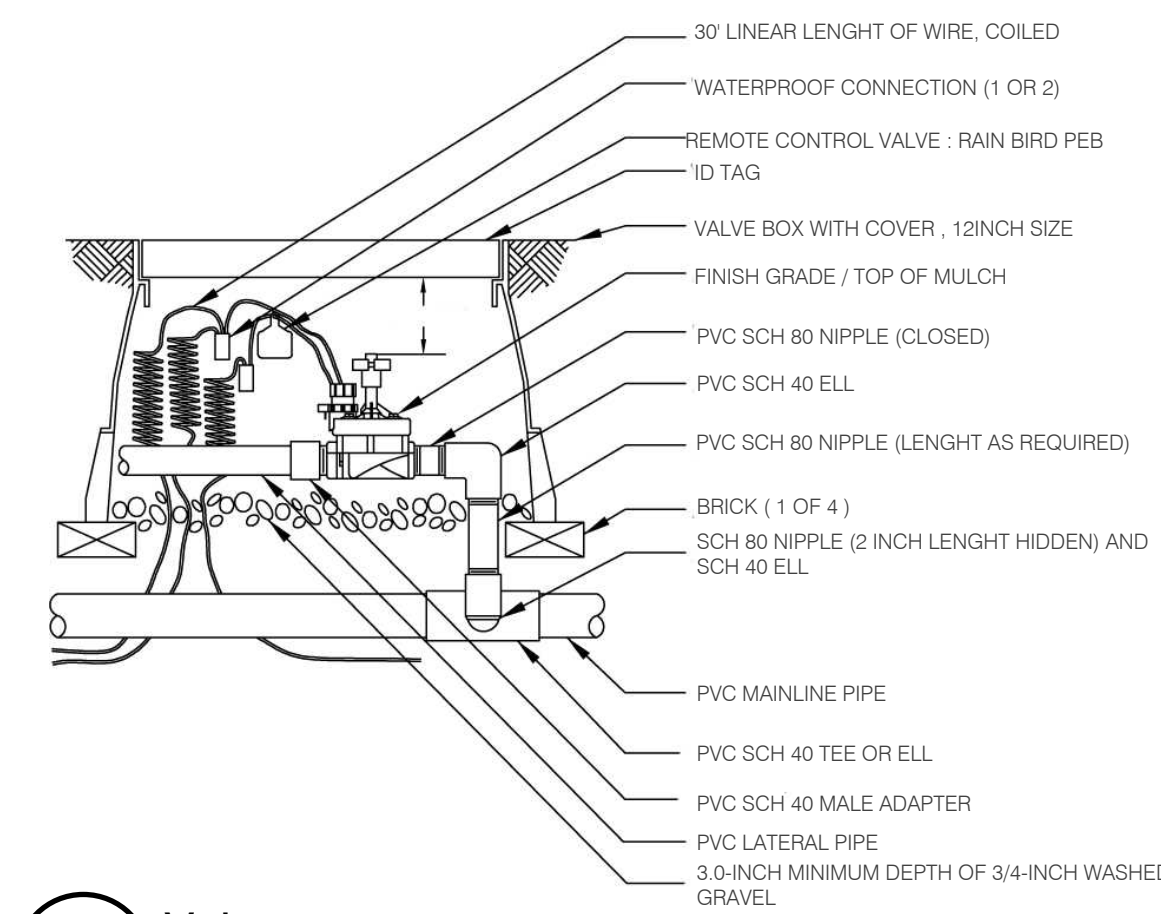


IRRIGATION MATERIALS SCHEDULE

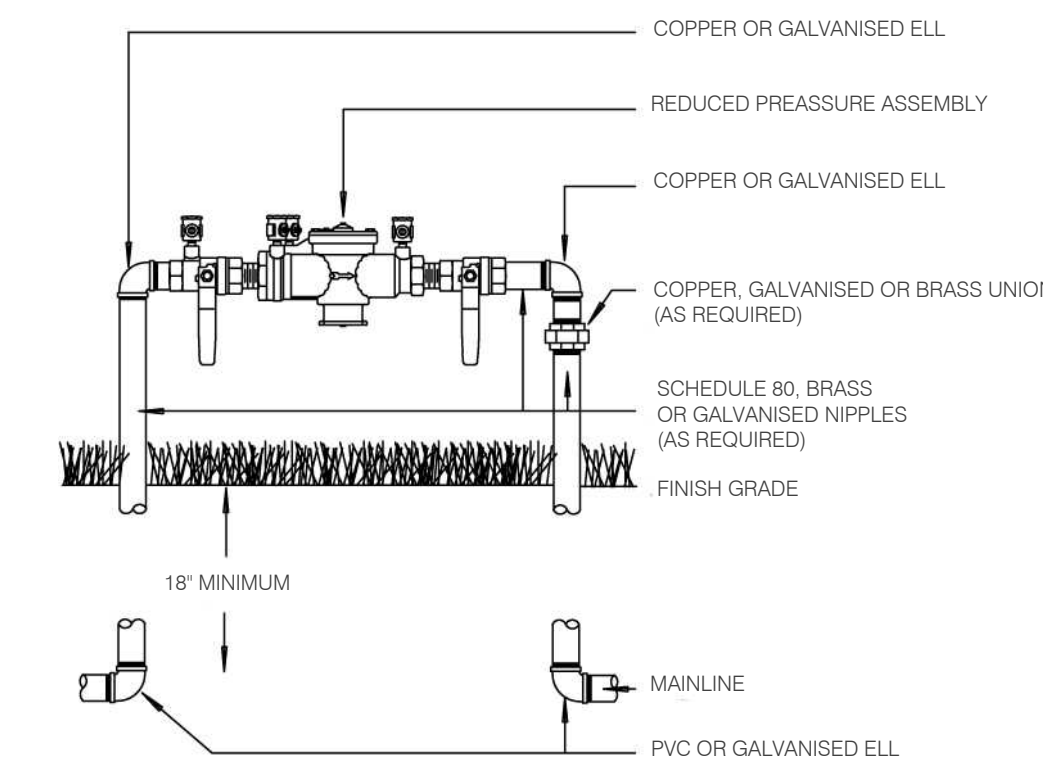
| SYMBOL | DESCRIPTION | SPECIFICATION | |
|------------|----------------------|---|-------------------|
| Poc | POINT OF CONNECTION | PUMP 1.5 HP | |
| B | BACKFLOW PREVENTER | Watts 007 1" | |
| | REMOTE CONTROL VALVE | Plastic Electric Remote Control Valves, Globe Configuration with NPT Threaded Inlet/Outlet | |
| C | CONTROLLER | Hunter X CORE | |
| | RAIN SENSOR | Mini-клик | |
| | MAINLINE | Sched 40 PVC Sleeve | |
| | LATERAL LINE | Sched 40 PVC Sleeve | |
| | SLEEVE | Sched 40 PVC Sleeve | |
| | SHRUB 12" Pop-Up | | |
| | | SPECIFICATION | PATTERN |
| | S SS | Hunter PROS-06 Shrub Spray 12" | SIDE SPRAY HALF |
| | S 10H | S 10Q | 10' R HALF |
| | S 10Q | S 10Q | 10' R QUARTER |
| | S CS | Hunter PROS-06 Shrub Spray 12" | CENTER STRIP 30X5 |
| | TURF 6" Pop-Up | | |
| | | SPECIFICATION | PATTERN |
| | T 15H | Hunter PROS-06 Turf Spray 6" | 15' R HALF |
| | T 15Q | Hunter PROS-06 Turf Spray 6" | 15' R QUARTER |
| | T 8H | Hunter PROS-06 Turf Spray 6" | 8' R HALF |
| | T 10Q | Hunter PROS-06 Turf Spray 6" | 10' R QUARTER |
| | T 12H | Hunter PROS-06 Turf Spray 6" | 12' R 180 DEG |
| | T 12Q | Hunter PROS-06 Turf Spray 6" | 12' R QUARTER |
| | T CS | Hunter PROS-06 Turf Spray 6" | CENTER STRIP 30X5 |

IRRIGATION NOTES

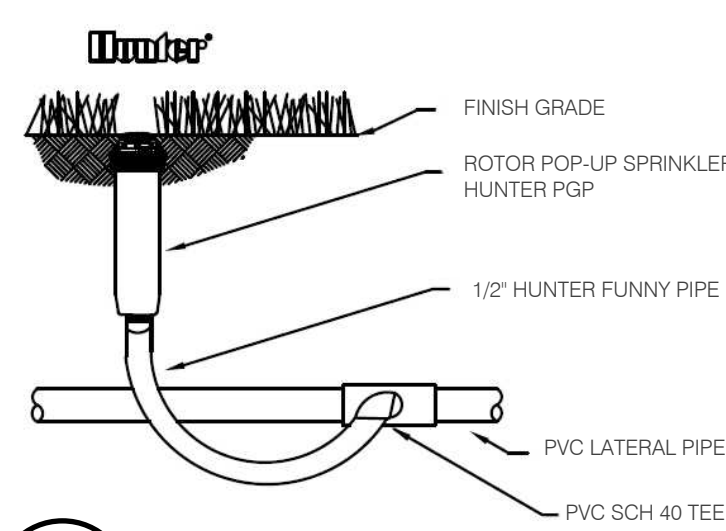
- The Irrigation Contractor shall be responsible for contacting the utility companies to verify locations off all underground facilities.
- The Irrigation Contractor shall visit the site prior to bidding to verify all existing equipment and bring any discrepancies to the irrigation designers' attention prior to bidding.
- The Irrigation Contractor is responsible for installing a fully operational system in accordance with the all the various manufacturer's specifications and site-specific conditions.
The Irrigation Contractor shall ensure that the existing and the new systems functions optimally.
- The Irrigation Contractor shall adhere to the Florida Building Code (Appendix F).
- The Irrigation Plans are schematic and drawn for graphic clarity. All piping below pavement shall be sleeved. The layout for the irrigation system shall be coordinated with the Landscape Plan.
- Sprinkler locations adjacent to pavement, structures, fences, etc. shall be offset as follows: 6" min. for pop-ups, 12" for shrub risers. All sprinkler heads to be set perpendicular to the finished grade.
- The Irrigation Contractor shall familiarize himself with all grade differences, location of walls, structures and utilities.
- The Irrigation Contractor shall repair and replace all items damaged by his work. The Contractor shall coordinate his/her work with all other contractors for the location of sleeves through walls and under roadways and walks. The Irrigation Contractor shall not willingly install any equipment as shown on the drawings when it is obvious in the field that unknown obstructions, grade differences or differences in area dimensions exist that may not have been considered in the design of the system. Any such discrepancies should be brought to the attention on the owner's representative. In the event of this notification not performed, the irrigation contractor shall assume full responsibility for any revisions necessary.
- All sprinkler equipment not otherwise detailed shall be installed as per the manufacturer's recommendations and specifications.
- The Irrigation Contractor shall install check valves on all heads in areas where finished grade exceeds 4:1, where post valve shut-off draining of the irrigation head occurs or as directed by the owner's representative. The Irrigation Contractor to provide 1800 PCS (pressure compensating screens) as necessary to reduce or eliminate overspray onto streets, walks or other areas as directed by the owner's representative.
- Piping in narrow planting spaces shall be offset to one side to allow for tree and shrub planting.
- All piping shall be sized to maintain flow velocity below 5 FPS.
- All sleeving to be SCH40 PVC, sizes indicated on plan. Sleeves shall always be 2X larger than the pipe. Refer see sleeving detail on the Specification sheet.
- The Irrigation controller shall be installed in accordance with local codes and manufacturers recommendations. Proper surge protection and grounding equipment shall be provided. A rain sensor shall be provided and installed per the manufacturer's specifications, to over-ride the system. See plan for specification.
- Control wires shall be UL approved PE control wire. Use 14 gage control wire and 12 gage ground wire. Wire shall be bundled and attached to the main line in the trench or through wire sleeves at pavement crossings 24" below final grade. All splices shall be made with waterproof direct burial splice kits and contained in valve boxes. Two extra control wires shall be installed to the furthest valves in each direction from the controller.
- Valve locations are schematic only and will be adjusted for site conditions. Each valve shall be installed in an Amtek or Carson valve box. The flow adjustment feature will be used to balance the pressure throughout the system.
- All glue joints shall be cleaned, sanded and treated with a colored high etch primer and joined using a solvent conforming with ASTM D2564
- As-built drawings shall be prepared by the contractor and given to the owner prior to final acceptance. Watering time per station shall be determined in the field and per local requirements. The Irrigation Contractor to request a system hand-over and wet check to be performed with the owner's representative to demonstrate operational functionality prior to completion.



1 Valve
11.1 NTS



2 Backflow Preventer
11.1 NTS



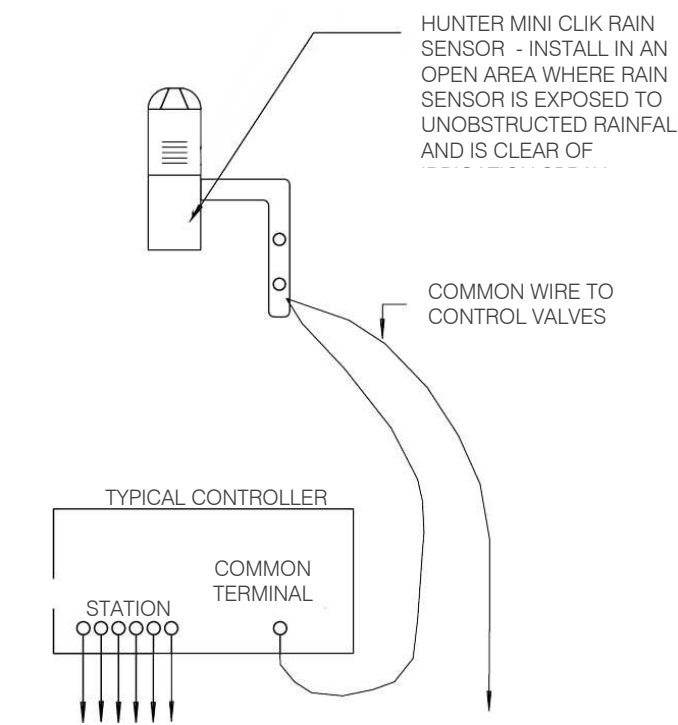
3 Rotor Hunter
11.1 NTS

DEPTH OF COVERAGE PER FLORIDA BUILDING CODE AMENDED APPENDIX F FOR NONTRAFFIC AND NONCULTIVATED AREAS

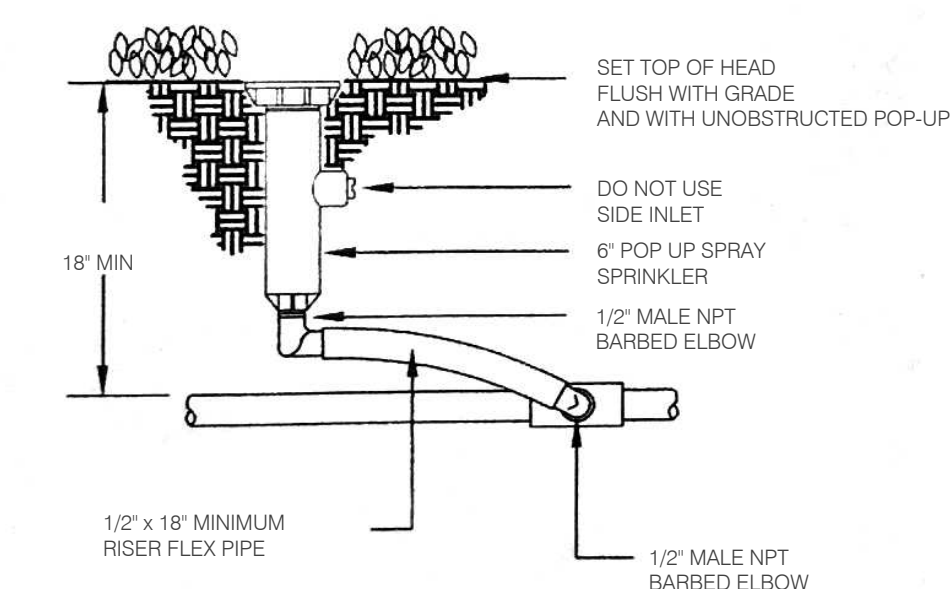
| PIPE DIAMETER | MINIMUM DEPTH OF COVER |
|---------------------|------------------------|
| 1/2" THROUGH 1 1/4" | 6" - 12" |
| 1 1/2" THROUGH 2" | 12" - 18" |
| 2 1/2" THROUGH 3" | 18" - 24" |
| 6" AND LARGER | 24" - 36" |

FOR VEHICLE TRAFFIC AREAS

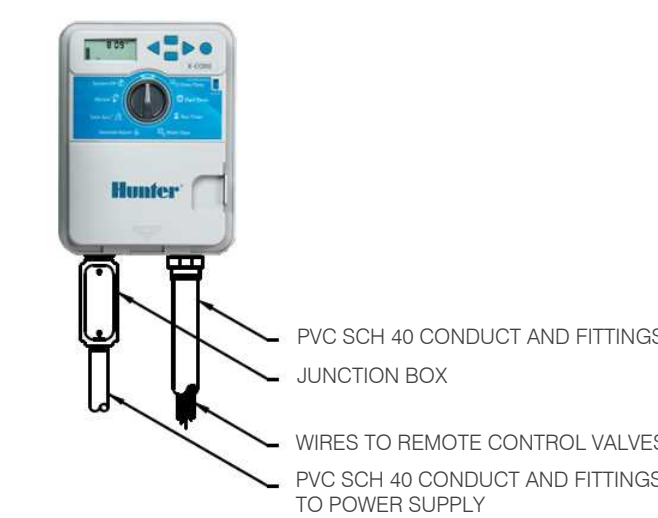
| PIPE DIAMETER | MINIMUM DEPTH OF COVER |
|---------------------|------------------------|
| 1/2" THROUGH 2 1/2" | 18" - 24" |
| 3" THROUGH 5" | 24" - 30" |
| 6" AND LARGER | 30" - 36" |



4 Rain Sensor
11.1 NTS



5 Pop Up Spray 6"
11.0 NTS



6 Controller X-Core
11.1 NTS

THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE INSTALLED IN ACCORDANCE WITH ALL THE REQUIREMENTS OF APPENDIX F, CONSTRUCTION AND BUILDING CODES FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, OF THE FLORIDA BUILDING CODE.



Twiggs Academy

829 Silver Beach Road
Lake Park, FL 33403

Date Created:
05202025

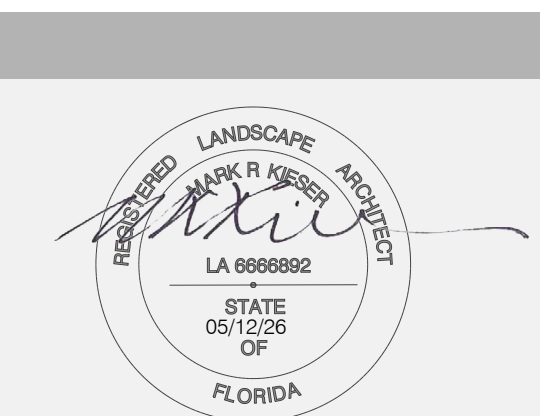
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| 06/20/25 | ISSUED FOR CLIENT REVIEW |
| 07/23/25 | ISSUED FOR REVIEW |
| 12/15/25 | UPDATED AS PER TOWN OF LAKE PARK REVIEW |
| 03/10/26 | REVISED PER NEW SITE PLAN |
| 04/21/26 | REVISED PER NEW SITE PLAN |
| 05/12/26 | REVISED PER CONSULTANT REVIEW |

PROJECT NO. 325LKP

IRRIGATION
DETAILS &
QUANTITIES

11.1



Twiggs Academy
829 Silver Beach Road
Lake Park, FL 33403

Date Created:
05202025

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| 05/12/26 | REVISED PER CONSULTANT REVIEW |

PROJECT NO. 325LKP

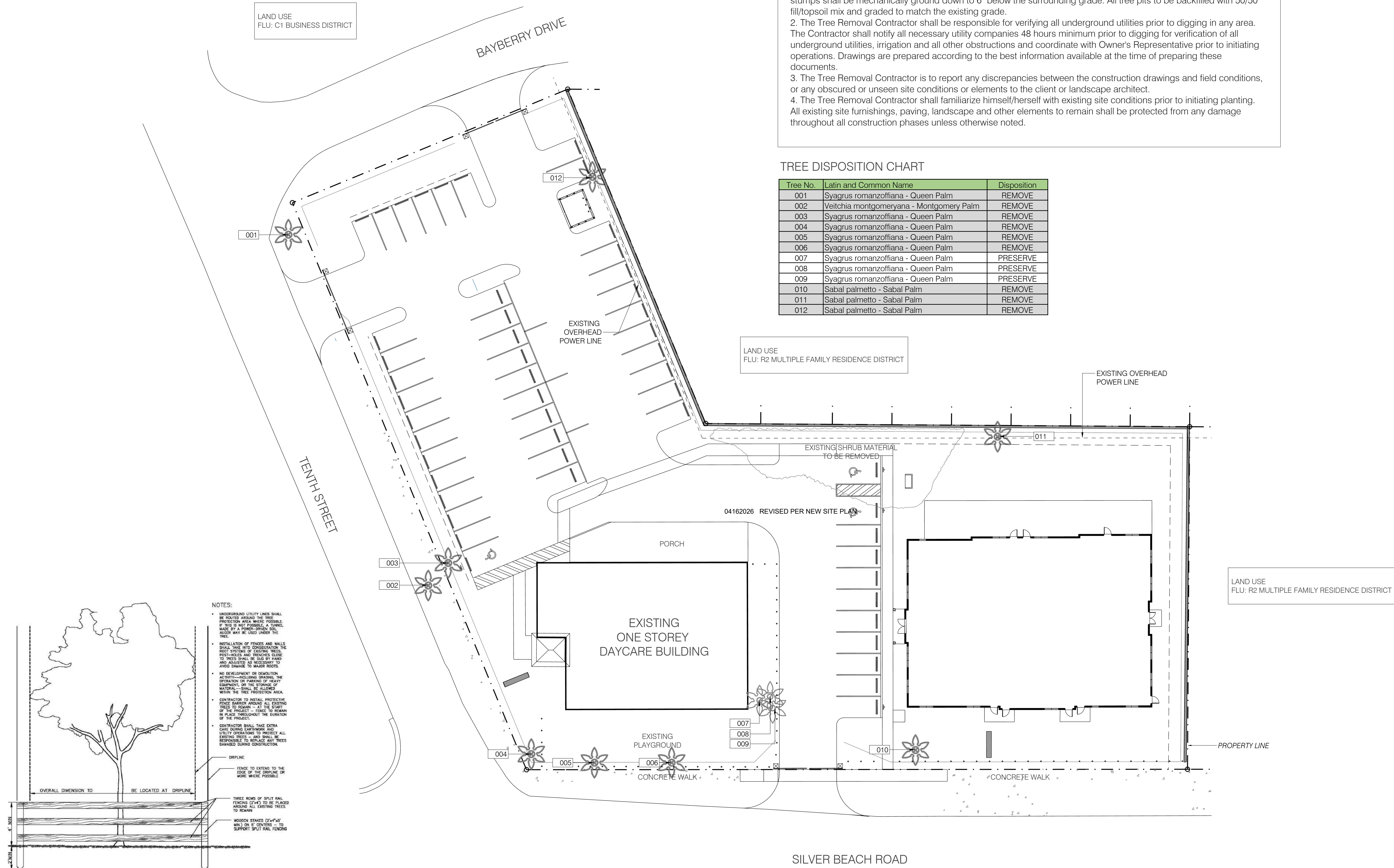
TREE DISPOSITION PLAN
L0.0

GENERAL NOTES - TREE REMOVAL

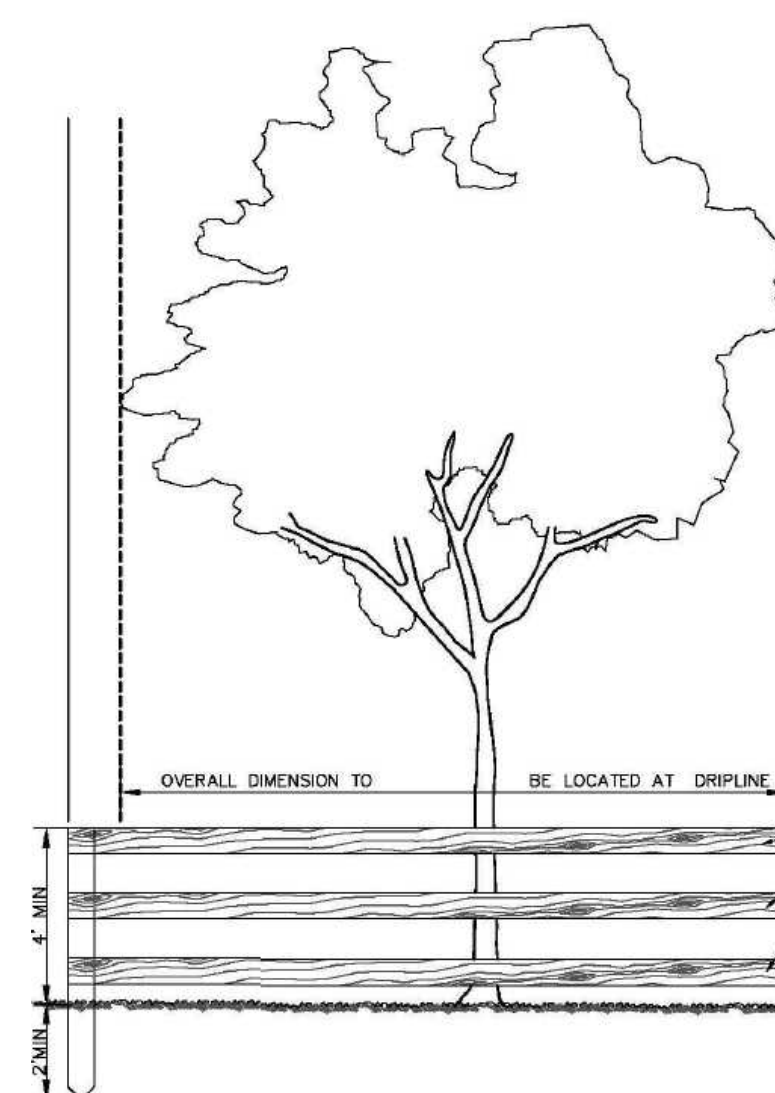
- All trees and palms designated for removal to be removed from site prior to landscape installation. All tree and palm stumps shall be mechanically ground down to 6" below the surrounding grade. All tree pits to be backfilled with 50/50 fill/topsoil mix and graded to match the existing grade.
- The Tree Removal Contractor shall be responsible for verifying all underground utilities prior to digging in any area. The Contractor shall notify all necessary utility companies 48 hours minimum prior to digging for verification of all underground utilities, irrigation and all other obstructions and coordinate with Owner's Representative prior to initiating operations. Drawings are prepared according to the best information available at the time of preparing these documents.
- The Tree Removal Contractor is to report any discrepancies between the construction drawings and field conditions, or any obscured or unseen site conditions or elements to the client or landscape architect.
- The Tree Removal Contractor shall familiarize himself/herself with existing site conditions prior to initiating planting. All existing site furnishings, paving, landscape and other elements to remain shall be protected from any damage throughout all construction phases unless otherwise noted.

TREE DISPOSITION CHART

| Tree No. | Latin and Common Name | Disposition |
|----------|--|-------------|
| 001 | Syagrus romanzoffiana - Queen Palm | REMOVE |
| 002 | Veitchia montgomeryana - Montgomery Palm | REMOVE |
| 003 | Syagrus romanzoffiana - Queen Palm | REMOVE |
| 004 | Syagrus romanzoffiana - Queen Palm | REMOVE |
| 005 | Syagrus romanzoffiana - Queen Palm | REMOVE |
| 006 | Syagrus romanzoffiana - Queen Palm | REMOVE |
| 007 | Syagrus romanzoffiana - Queen Palm | PRESERVE |
| 008 | Syagrus romanzoffiana - Queen Palm | PRESERVE |
| 009 | Syagrus romanzoffiana - Queen Palm | PRESERVE |
| 010 | Sabal palmetto - Sabal Palm | REMOVE |
| 011 | Sabal palmetto - Sabal Palm | REMOVE |
| 012 | Sabal palmetto - Sabal Palm | REMOVE |

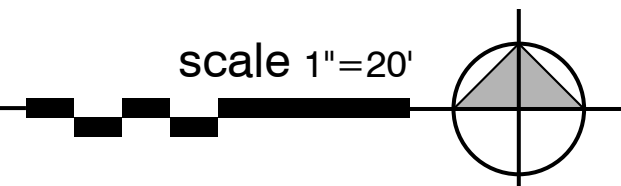


- NOTES:**
- UNDERGROUND UTILITY LINES SHALL BE LOCATED AROUND THE TREE PROTECTION AREA WHERE POSSIBLE. IF NOT, A PROBING OR SONAR MADE BY A POWER-DRAWN TOOL, ALONG MAY BE USED UNDER THE TREE.
 - INSTALLATION OF FENCES AND WALLS SHALL TAKE INTO CONSIDERATION THE ROOT SYSTEM OF EXISTING TREES. PRE-DRILLS AND NOTCHES CLOSE TO TREES SHALL BE CUT BY HAND AND ANALYZED AS NECESSARY TO AVOID DAMAGE TO MAJOR ROOTS.
 - NO DEVELOPMENT OR DEMOLITION ACTIVITY—INCLUDING GRADING, THE OPERATION OR PARKING OF HEAVY EQUIPMENT, OR THE STORAGE OF MATERIALS—SHALL BE ALLOWED WITHIN THE TREE PROTECTION AREA.
 - CONTRACTOR TO MAINTAIN PROTECTIVE FENCE BARRIER AROUND ALL EXISTING TREES TO REMAIN AT THE SCOUT OF THE PROJECT—FENCE TO REMAIN IN PLACE THROUGHOUT THE DURATION OF THE PROJECT.
 - CONTRACTOR SHALL TAKE EXTRA CARE DURING EARTHWORK AND UTILITY OPERATIONS TO PROTECT ALL EXISTING TREES—AND SHALL BE RESPONSIBLE TO REPLACE ANY TREES DAMAGED DURING CONSTRUCTION.



NOTE: BARRIER TO FORM CONTINUOUS CIRCLE AROUND THE TREE OR GROUP OF TREES. SEE LANDSCAPE PLAN FOR LOCATION OF TREES TO REMAIN.

1 TREE DISPOSITION PLAN
L0.0





Twiggs Academy
829 Silver Beach Road
Lake Park, FL 33403

Date Created:
05/20/2025

Document Phase:
Permitting

| date | remark |
|----------|---|
| 06/20/25 | ISSUED FOR CLIENT REVIEW |
| 07/23/25 | ISSUED FOR REVIEW |
| 12/15/25 | UPDATED AS PER TOWN OF LAKE PARK REVIEW |
| 03/10/26 | REVISED PER NEW SITE PLAN |
| 04/21/26 | REVISED PER NEW SITE PLAN |
| 05/12/26 | REVISED PER CONSULTANT REVIEW |

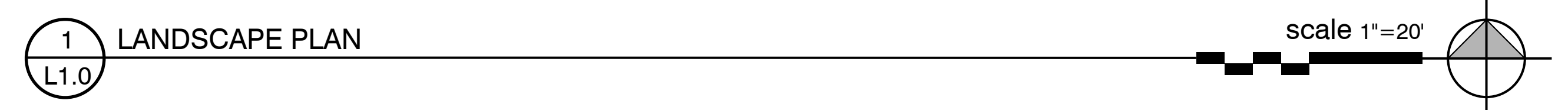
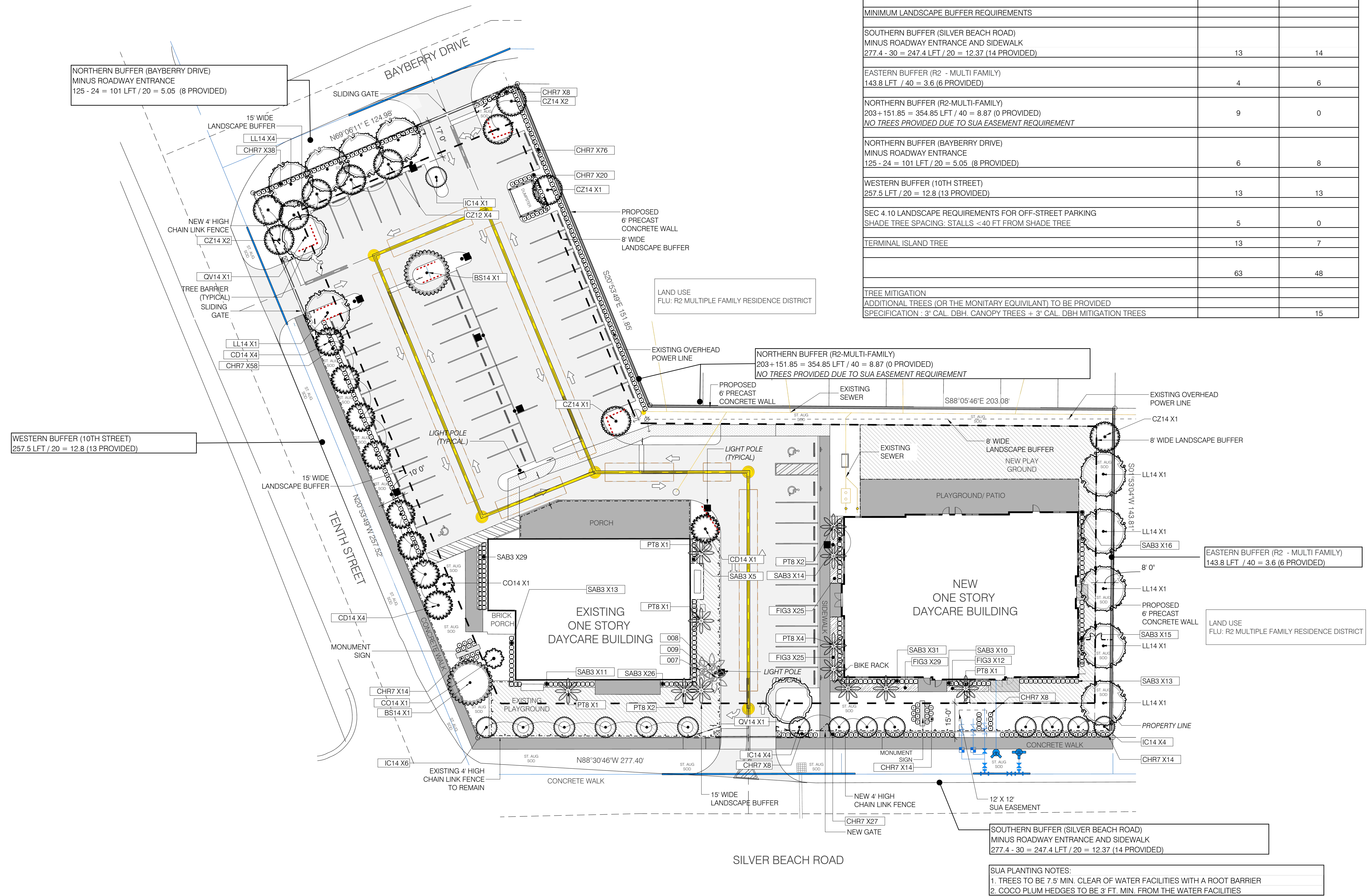
PROJECT NO. 325LKP

LANDSCAPE PLAN

L1.0

LAND DEVELOPMENT CODE

| TOWN OF LAKE PARK LANDSCAPE REQUIREMENTS | TREES REQUIRED | TREES PROVIDED |
|--|----------------|----------------|
| MINIMUM LANDSCAPE BUFFER REQUIREMENTS | | |
| SOUTHERN BUFFER (SILVER BEACH ROAD) MINUS ROADWAY ENTRANCE AND SIDEWALK 277.4 - 30 = 247.4 LFT / 20 = 12.37 (14 PROVIDED) | 13 | 14 |
| EASTERN BUFFER (R2 - MULTI FAMILY) 143.8 LFT / 40 = 3.6 (6 PROVIDED) | 4 | 6 |
| NORTHERN BUFFER (R2-MULTI-FAMILY) 203+151.85 = 354.85 LFT / 40 = 8.87 (0 PROVIDED) NO TREES PROVIDED DUE TO SUA EASEMENT REQUIREMENT | 9 | 0 |
| NORTHERN BUFFER (BAYBERRY DRIVE) MINUS ROADWAY ENTRANCE 125 - 24 = 101 LFT / 20 = 5.05 (8 PROVIDED) | 6 | 8 |
| WESTERN BUFFER (10TH STREET) 257.5 LFT / 20 = 12.8 (13 PROVIDED) | 13 | 13 |
| SEC 4.10 LANDSCAPE REQUIREMENTS FOR OFF-STREET PARKING SHADE TREE SPACING: STALLS <40 FT FROM SHADE TREE | 5 | 0 |
| TERMINAL ISLAND TREE | 13 | 7 |
| | 63 | 48 |
| TREE MITIGATION | | |
| ADDITIONAL TREES (OR THE MONITARY EQUIVILANT) TO BE PROVIDED SPECIFICATION : 3" CAL. DBH. CANOPY TREES + 3" CAL. DBH MITIGATION TREES | | 15 |



1 LANDSCAPE PLAN
L1.0

SUA PLANTING NOTES:
1. TREES TO BE 7.5' MIN. CLEAR OF WATER FACILITIES WITH A ROOT BARRIER
2. COCO PLUM HEDGES TO BE 3' FT. MIN. FROM THE WATER FACILITIES



Twiggs Academy
829 Silver Beach Road
Lake Park, FL 33403

Date Created:
05/20/2025

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| date | remark |
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| 04/21/26 | REVISED PER NEW SITE PLAN |
| 05/12/26 | REVISED PER CONSULTANT REVIEW |

PROJECT NO. 325LKP

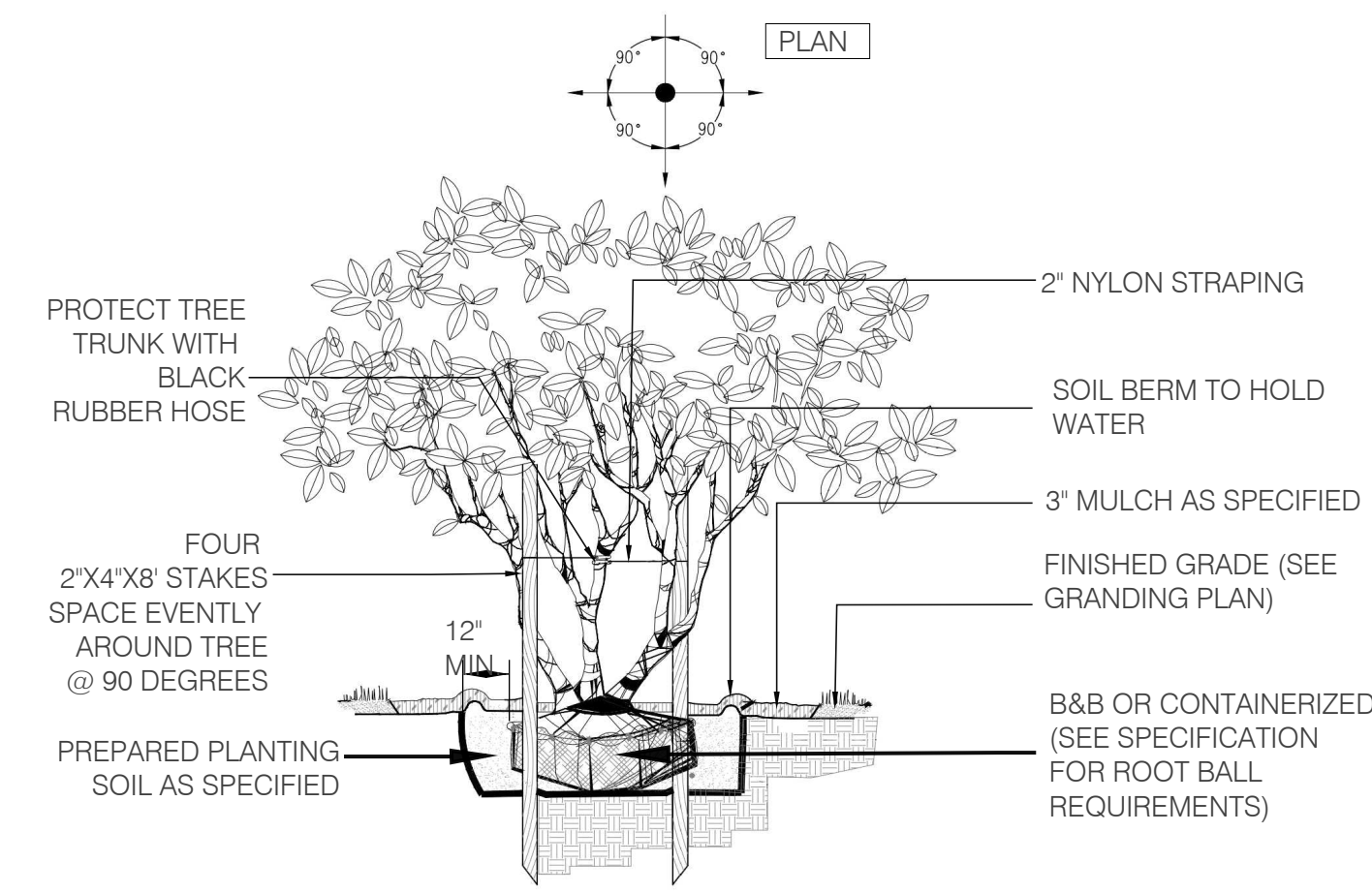
LANDSCAPE DETAILS & QUANTITIES
L1.1

LANDSCAPE MATERIAL SCHEDULE

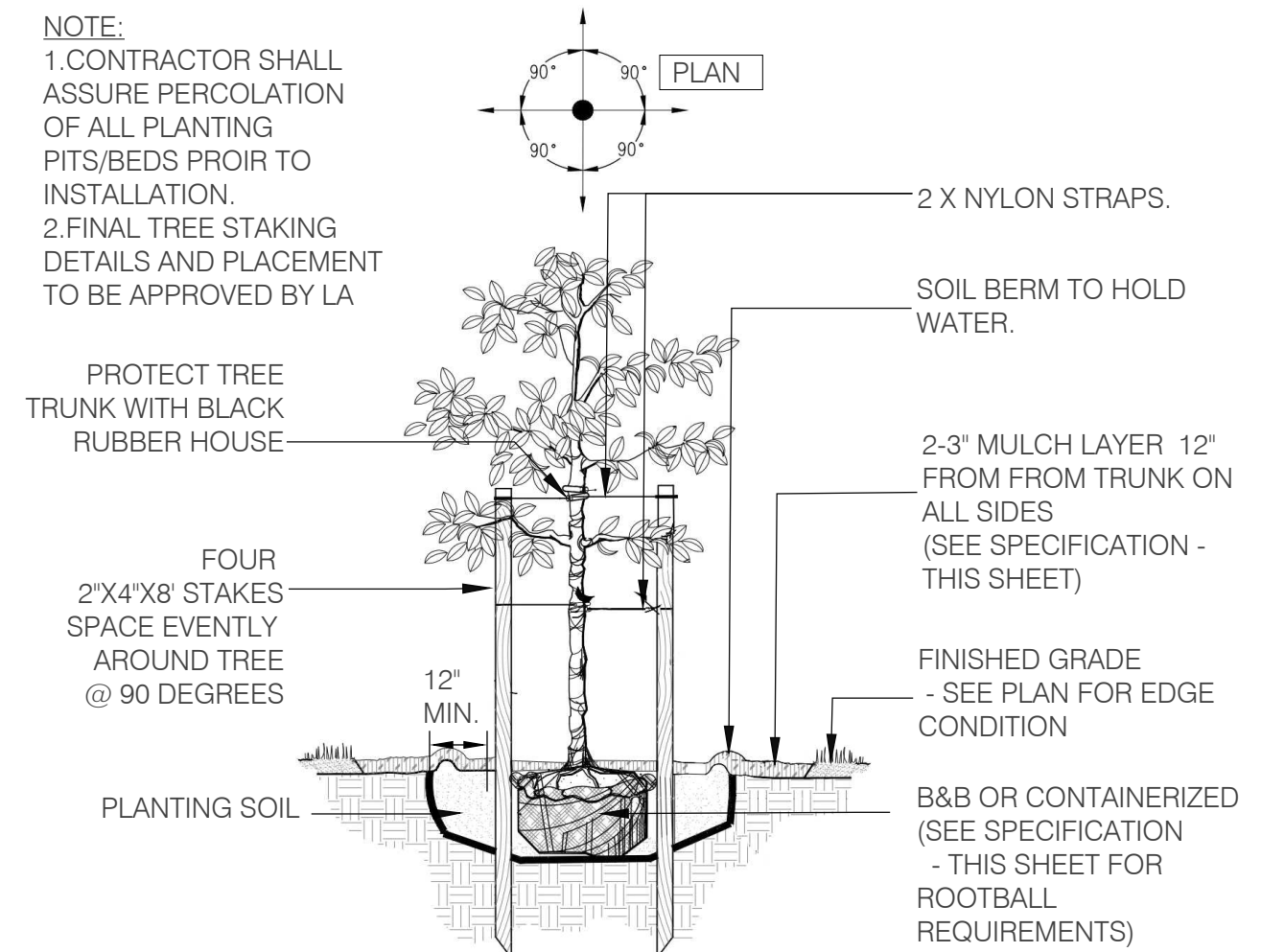
| SYMBOL | QTY | BOTANIC AND COMMON NAME | SPECIFICATION | NATIVE | NOTES |
|---------------------|-------|---|---------------------------|----------------|-------|
| TREES | | | | | |
| BS14 | 2 | Bursera simaruba - Gumbo Limbo | 14' OA. HT. 3" CAL. DBH. | FL NATIVE | |
| CD14 | 9 | Coccoloba diversifolia- Pigeon plum | 14' OA. MIN. 3" CAL. DBH. | FL NATIVE | |
| CO14 | 2 | Chrysophyllum oliviforme - Satin Leaf Tree | 14' OA. MIN. 3" CAL. DBH. | FL NATIVE | |
| CZ14 | 11 | Conucarpus erectus 'sericea' - Silver Buttonwood | 12' OA. HT. 3" CAL. DBH. | FL NATIVE | |
| IC14 | 15 | Ilex x attuanata 'Eagleston' - Eagleston Holly | 14' OA. HT. 3" CAL. DBH. | FL NATIVE | |
| LL14 | 10 | Lysiloma latisiliquum - Wild Tamarind | 14' OA. HT. 3" CAL. DBH. | FL NATIVE | |
| OV14 | 2 | Quercus virginiana - Live Oak | 14' OA. HT. 3" CAL. DBH. | FL NATIVE | |
| PALMS | | | | | |
| PT8 | 12 | Ptychosperma elegans - Solitaire Palm | 8' CT SINGLE TRUNK | | |
| SHRUB | | | | | |
| CHR7 | 295 | Chrysobalanus icaco 'Red Tip' - Red Tip Coco Plum Hedge | 30' MIN. OA. 24" O.C | FL NATIVE | |
| SAB3 | 183 | Schleffera aboricola - Green Aboricola Hedge | 24" SPRD. 24" O.C | HEDGE | |
| GROUND COVER | | | | | |
| FIG3 | 91 | Ficus microcarpa 'Green Island' - Ficus 'Green Island' | 12" HT., 24" O.C | | |
| SOD | | | | | |
| | 5,000 | SFT | ST. AUGUSTINE 'FLORATAM' | *EST. QUANTITY | |

LANDSCAPE - GENERAL NOTES

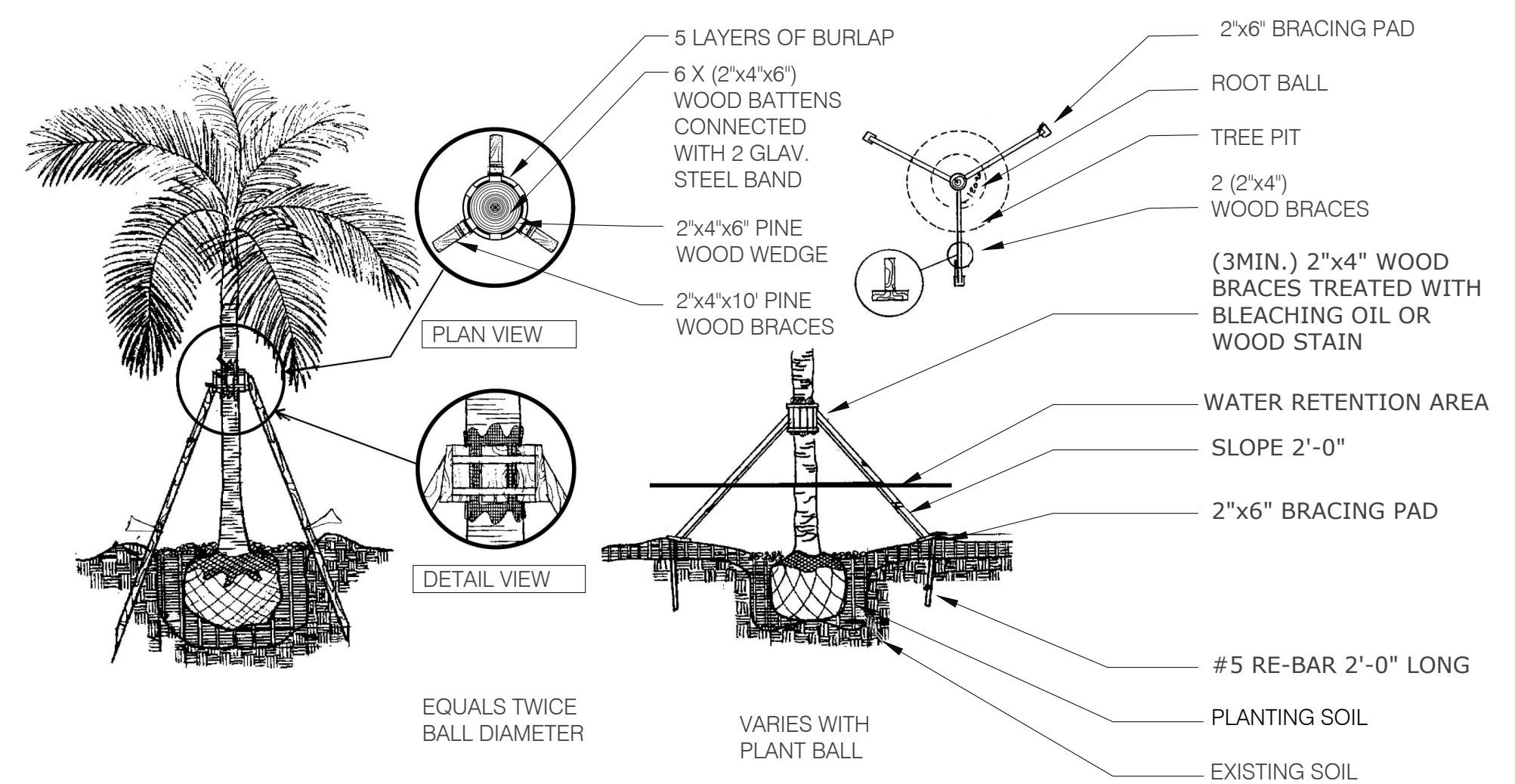
- All existing trees to remain and all relocated plant material shall be protected from damage or injury and shall be barricaded or otherwise suitably flagged and protected from damage.
- The Contractor shall be responsible for verifying all underground utilities prior to digging in any area. The Contractor shall notify all necessary utility companies 48 hours minimum prior to digging for verification of all underground utilities, irrigation and all other obstructions and coordinate with Owner's Representative prior to initiating operations. Drawings are prepared according to the best information available at the time of preparing these documents.
- All plant material is to be Florida Number 1 or better according to the latest version of the Florida Department of Agriculture's Grades and Standards for Nursery Plants.
- Sod is to be grade "A" weed free. All sodded areas are to be provided with St. Augustine "Floratum" solid sod. All sod is to be laid level, tight, and even along planting beds.
- All plants are to be top dressed with a minimum 3" layer of Melaleuca mulch or equal.
- All landscape areas are to be provided with automatic sprinkler system which provide 100% coverage, and 50% overlap
- All landscape material is to be Florida #1 grade or better.
- All asphalt, road rock, and other non-natural materials shall be removed and refilled to the undisturbed lot level with clean soil before any planting or installation of the required drought-resistant sod or ground cover.



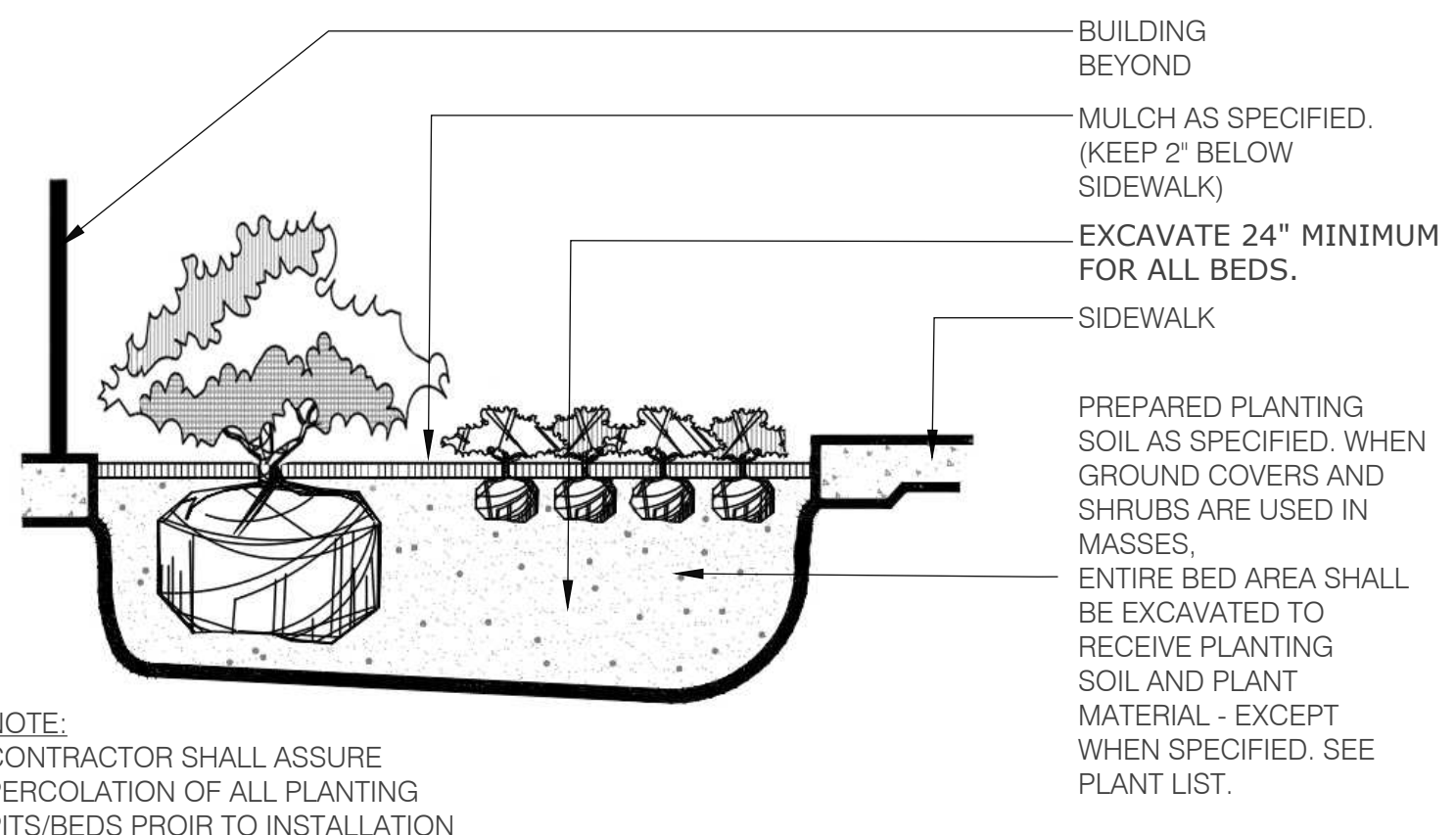
2 Multi-Trunk Tree (Typical)
L1.1



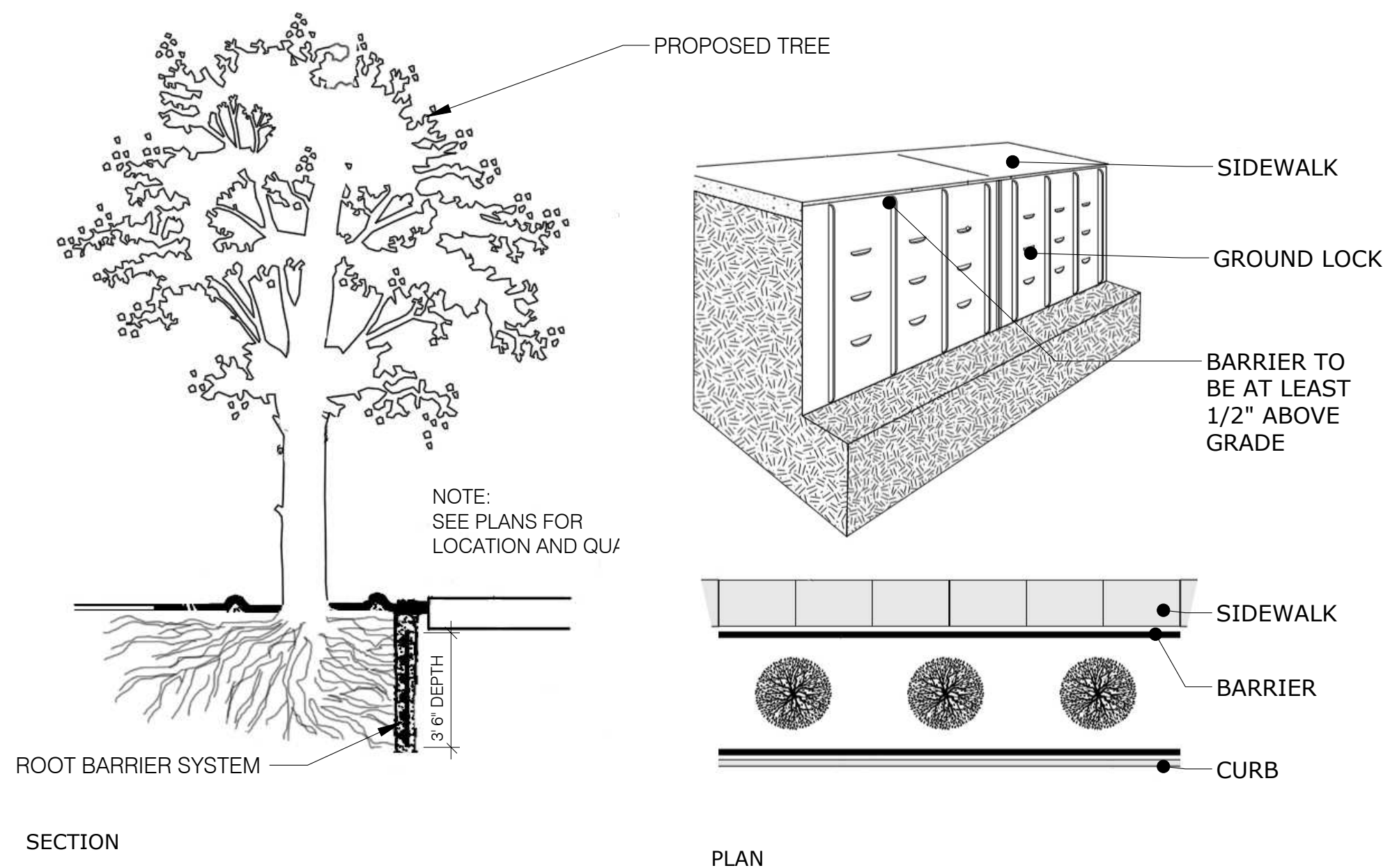
4 Tree Planting Detail (Typical)
L1.1 NTS



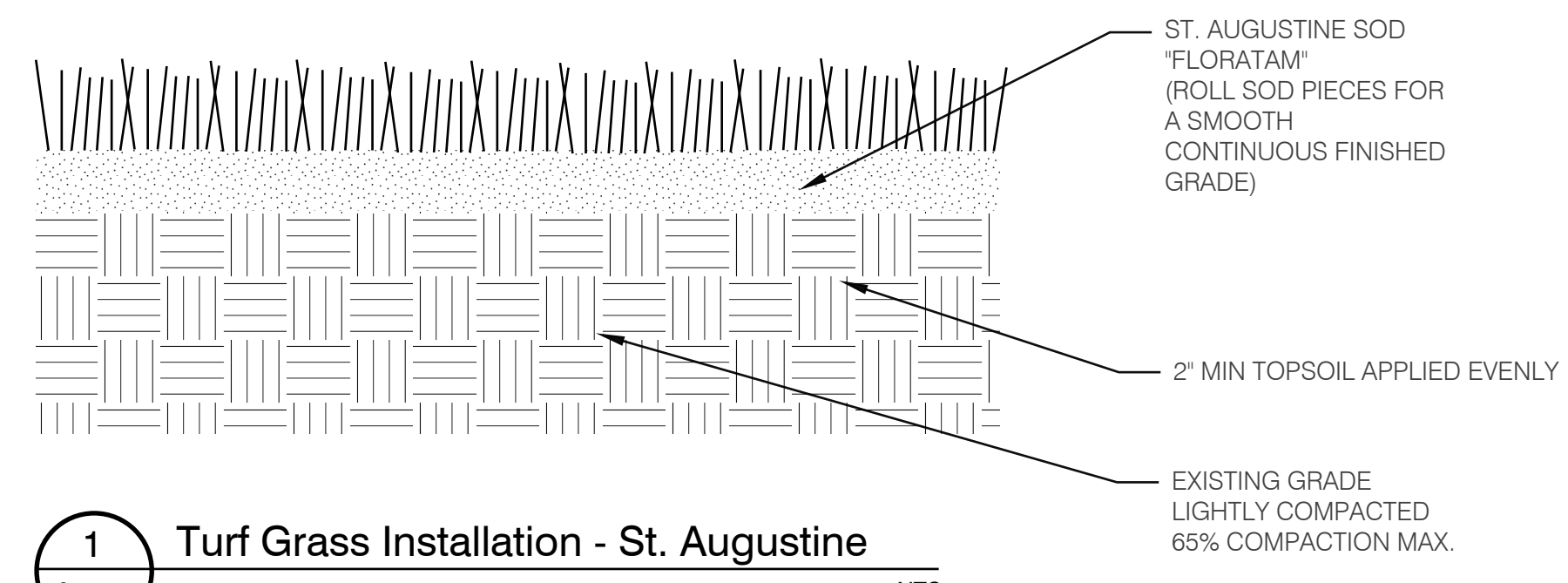
3 Palm Planting Detail (Typical)
L1.1 NTS



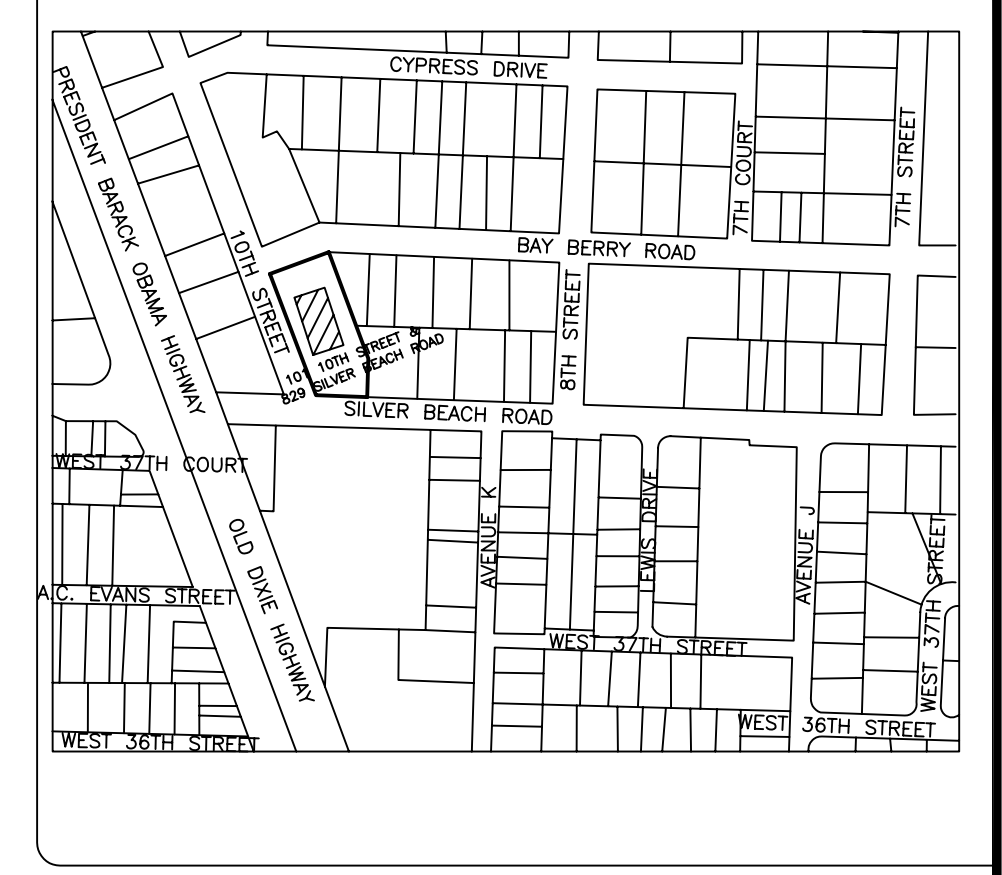
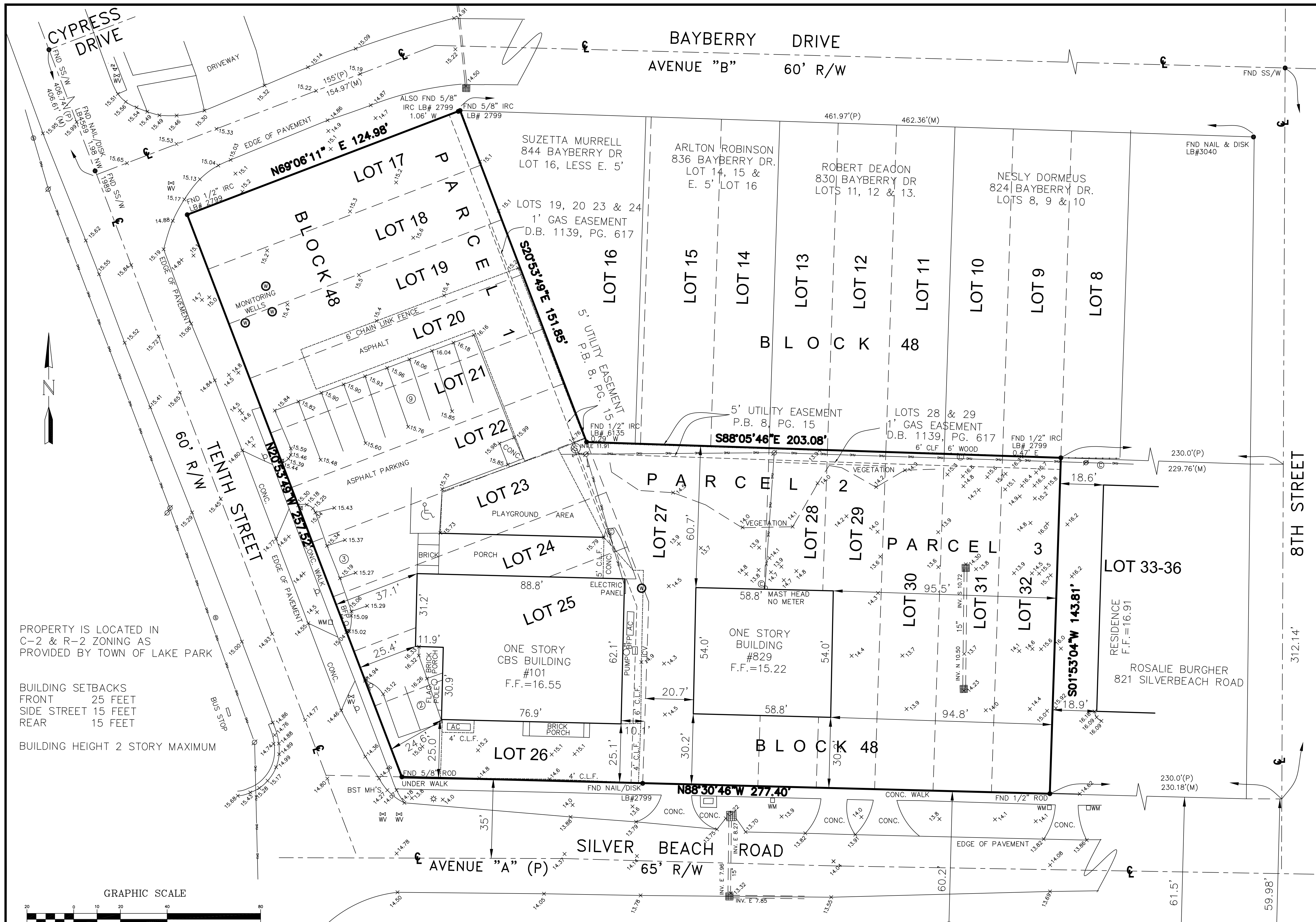
5 Shrub & Groundcover Planting Detail (Typical)
L1.1 NTS



6 Root Barrier Detail - Proposed Tree
L1.1 NTS



1 Turf Grass Installation - St. Augustine
L1.1 NTS



LOCATION MAP

DESCRIPTION:

Parcel 1: 36-43-42-20-01-048-0170 (101 10th Street)
 Lots 17,18,19,20,21,22,23,24,25 and 26, Block 48, KELSEY CITY (n/k/a Lake Park), according to the Plat thereof, as recorded in Plat Book 8, Page 27, Public Records of Palm Beach County, Florida.

Parcel 2: 36-43-42-20-01-048-0270 (829 Silver Beach Road)
 Lots 27,28 and 29, Block 48, KELSEY CITY (n/k/a Lake Park), according to the Plat thereof, as recorded in Plat Book 8, Page 27, Public Records of Palm Beach County, Florida.

Parcel 3: 36-43-42-20-01-048-0300 (823 Silver Beach Road)
 Lots 30,31 and 32, Block 48, KELSEY CITY (n/k/a Lake Park), according to the Plat thereof, as recorded in Plat Book 8, Page 27, Public Records of Palm Beach County, Florida.

Containing 60,339 square feet or 1.35 Acres more or less.

NOTE: LOTS 20-26, BLOCK 48, AFFECTED BY UNITY OF TITLE IN ORB 5578, PG. 322

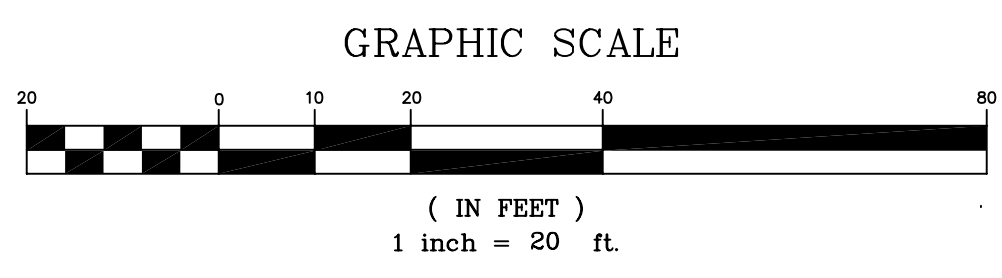
SURVEYOR'S NOTES:

- THIS BOUNDARY SURVEY WAS PERFORMED IN ACCORDANCE WITH TITLE COMMITMENT NO 1205303, DATED 1-7-2022 PREPARED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY. THE DESCRIPTION AND EASEMENTS AS STATED THEREIN ARE AS SHOWN HEREON.
- THIS BOUNDARY & TOPOGRAPHIC SURVEY MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE IN CHAPTER 5J-17.052 OF THE FLORIDA ADMINISTRATIVE CODES & ALTA 2021 STANDARDS.
- SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT ADDRESSED AS A PART OF THIS SURVEY. ONLY VISIBLE ABOVE GROUND IMPROVEMENTS HAVE BEEN SHOWN. THERE MAY EXIST UNDERGROUND UTILITIES, FOUNDATIONS OR OTHER MATTERS WHICH HAVE NOT BEEN REFLECTED ON THIS SURVEY.
- ADDITIONS AND/OR DELETIONS TO THIS SURVEY MAP BY OTHER THAN THE SIGNING SURVEYOR IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THIS OFFICE.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS AND DISTANCES ARE NOT TO BE SCALED FOR CONSTRUCTION AND/OR DESIGN PURPOSES.
- THIS MAP, AS DEPICTED IN ITS GRAPHIC FORM, BEARING THE SIGNATURE AND SEAL OF THE SURVEYOR, IS THE OFFICIAL DOCUMENT OF THE LANDS AS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCE BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE MAP.
- THIS SURVEY IS PREPARED FOR THE PARTIES AS STATED HEREON AND IS NOT ASSIGNABLE TO OTHER PARTIES WITHOUT THE WRITTEN CONSENT OF THE SURVEYOR.
- THIS SURVEY DOCUMENT, AS AN INSTRUMENT OF SERVICE, IS INTENDED FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED AND CERTIFIED. REUSE AND/OR RELIANCE UPON THIS DOCUMENT FOR ANY OTHER PURPOSE WITHOUT WRITTEN AUTHORIZATION AND ADAPTION BY DEAN SURVEYING & MAPPING, INC., SHALL BE WITHOUT LIABILITY TO DEAN SURVEYING & MAPPING, INC.
- ELEVATIONS AS SHOWN HEREON ARE SHOWN IN FEET AND DECIMAL PARTS THEREOF AND ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988, REFERENCE BENCHMARK IS N.G.S. STEEL ROD DESIGNATED "U-402" WHICH HAS A PUBLISHED ELEVATION OF 20-735.
- THE ORIGINAL PLAT OF "KELSEY CITY" (NOW KNOWN AS LAKE PARK) CONSISTS OF EIGHT (8) SHEETS, WHICH ARE NOT CONSECUTIVELY NUMBERED. THE COVER SHEET SHEET CONTAINS THE DEDICATION, KEY MAP AND NOTES AND IS RECORDED AS PAGE 15 OF PLAT BOOK 8. SHEET 1 ENCOMPASSES THE AREA IN WHICH BLOCK 48 LIES AND IS RECORDED AS PAGE 27 OF PLAT BOOK OF PLAT BOOK 8.

PROPERTY IS LOCATED IN C-2 & R-2 ZONING AS PROVIDED BY TOWN OF LAKE PARK

BUILDING SETBACKS
 FRONT 25 FEET
 SIDE STREET 15 FEET
 REAR 15 FEET

BUILDING HEIGHT 2 STORY MAXIMUM



Legend

- Indicates Set 1/2" Iron Rod & Cap #LB6936
- Indicates Found Iron Rod & Cap
- Indicates Found Concrete Monument
- Indicates Wood Utility Pole
- Indicates Concrete Power Pole
- Indicates Pole Anchor
- Indicates Catch Basin
- (P) Indicates Plat Dimension
- (G) Indicates Grid Bearing
- Indicates Water Meter
- Indicates Sanitary Cleanout
- Indicates Overhead Utility Lines
- Indicates Water Valve
- Indicates FIRE HYDRANT
- Indicates Storm Drainage Manhole
- Indicates Light Pole
- Indicates Bollard
- Indicates Sign
- Indicates Well
- Indicates Sanitary Manhole

2021 ALTA/NSPS LAND TITLE SURVEY CERTIFICATION

TO: MICHEL INVEST LLC
 CHICAGO TITLE COMPANY
 BANK FIVE NINE
 FLORIDA FIRST CAPITAL FINANCE CORPORATION
 SMALL BUSINESS ADMINISTRATION

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1,2,3,4,6b,7a,7c,8,9,11a,13,16,17 AND 18 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JANUARY 21, 2025

DATE OF MAP OR PLAT 3/18/2025

| REVISIONS | DATE |
|-----------------------|---------|
| UPDATE SURVEY TO ALTA | 1/21/25 |

BOUNDARY AND TOPOGRAPHIC SURVEY Prepared For & certified to:
MICHEL INVEST LLC

101 10TH STREET &
 829 SILVER BEACH ROAD
 LAKE PARK, FL 33403

PROPERTY LIES IN FLOOD ZONE "X" AS PER NATIONAL FLOOD INSURANCE PROGRAM RATE MAP 12099C03876

Richard N. Dean
 Professional Surveyor & Mapper
 Florida Certificate No. 4496
 LB. 6936

Dean Surveying and Mapping, Inc.
 "The Measuring Line Shall Go Forth" Jeremiah 31:39
 4201 Westgate Avenue
 Suite A3
 West Palm Beach, Florida 33409
 Tel:(561)625-8748

FIELD: R.N.D./L.L. DATE: 11-12-24
 DRAWN: M.R. SCALE: 1" = 20'
 SHEET: 1 of 1 JOB No.: 024-1102



TWIGGS ACADEMY







December 17, 2025

TRAFFIC STATEMENT

Twiggs Daycare
101 10th Street and 829 Silver Beach Road
Lake Park, FL 33403

Project Description

The proposed project consists of the construction of an approximately new 7,476 square foot daycare center after demolishing the existing 3,186 square foot daycare building located on 829 Silver Beach Road in the City of Lake Park, Palm Beach County, Florida (Parcel Number 36-43-42-20-01-048-0270). The other existing daycare building of approximately 4,588 square feet located on 101 10th Street (Parcel Number 36-43-42-20-01-048-0170) will remain as is. The parcel located at 823 Silver Beach Road (Parcel Number 36-42-42-20-01-048-0300) is currently vacant and zoned residential. This parcel will be rezoned and incorporated into the new project. The total site after combining all three parcels is approximately 1.385 acres. Site access is proposed via one existing driveway off Silver Beach Road which will be a right-in/right-out only driveway, one existing full access driveway at the northern end of the property off Tenth Street. The existing one-way egress right-turn only access to Tenth Street will be closed because of its close proximity to Silver Beach Road. A new access to Bayberry Drive will be constructed. Please see attached location map (Exhibit A), site plan (Exhibit B), and survey (Exhibit C). The buildout date for this project is December 2027.

Project Traffic

Daily and peak-hour vehicular trips generated by the subject development plan were estimated utilizing Palm Beach County approved trip generation rates as follows:

Trip Generation - Daycare

DAILY

| NEW DAYCARE | | | | |
|-----------------|----------|--------------|----------------------|-------------|
| Land Use | ITE Code | Intensity | Trip Generation Rate | Total Trips |
| New Daycare | 565 | 140 Students | 4.09 | 573 |
| TOTAL NEW TRIPS | | | | 573 |

AM Peak Hour

| NEW DAYCARE | | | | | | |
|-----------------|----------|--------------|----------------------|-------------|-----|-------|
| Land Use | ITE Code | Intensity | Trip Generation Rate | Total Trips | | |
| | | | | In | Out | Total |
| Daycare | 565 | 140 Students | 0.78 | 58 | 52 | 110 |
| TOTAL NEW TRIPS | | | | 58 | 52 | 110 |

PM Peak Hour

| NEW DAYCARE | | | | | | |
|-----------------|----------|--------------|----------------------|-------------|-----|-------|
| Land Use | ITE Code | Intensity | Trip Generation Rate | Total Trips | | |
| | | | | In | Out | Total |
| Daycare | 565 | 140 Students | 0.79 | 52 | 58 | 110 |
| TOTAL NEW TRIPS | | | | 52 | 58 | 110 |

(1) Source: Institute of Transportation Engineers (ITE), Trip Generation, 11th Edition

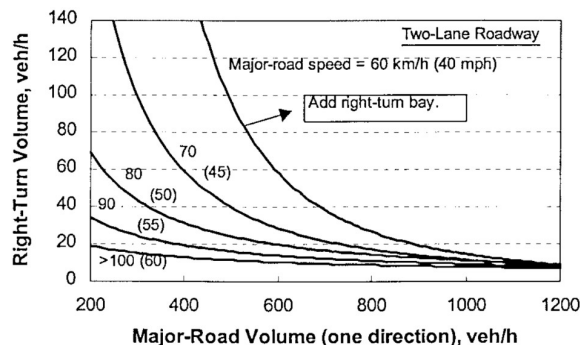
As per the above trip generation analysis, based on the adopted trip generation rates, the proposed new construction will result in a gross increase to the average daily trips of 573 trips, 110 trips during the AM peak hour, and 110 trips during the PM peak hour without taking the pass-through trips into account. This is to demonstrate the driveway trips. We have assumed that 40% of the traffic will ingress and egress from Silver Beach Road, 35% will be using the Tenth Street driveways, and the other 25% will be using the Bayberry Drive access. In this study, we are determining the impact of traffic to the roadway network around the project. Exhibit D shows the project traffic distribution. We also developed project driveway volumes which are shown on Exhibit E.

Based on the above project assignment, it is clear that this development has less than one percent (1%) impact of the adopted level of service, therefore no further analysis is required and the new development meets concurrency.

Access Analysis and Conclusion

Site access is proposed via one existing driveway off Silver Beach Road which will be a right-in/right-out only driveway, one existing full access driveway at the northern end of the property off Tenth Street. The existing one-way egress right-turn only access to Tenth Street will be closed because of its close proximity to Silver Beach Road. A new access to Bayberry Drive will be constructed.

Turning movements into the project were reviewed as per the Project Driveway Volumes (Exhibit E). As per this exhibit, we show 22 vehicles turning right into the project off Silver Beach Road, 4 vehicles turning right into the project off 10th Street, and 10 vehicles turning right into the project off Bayberry Drive during the peak hour. Based on the NCHRP 457 graph for Major Road Volume (one direction) seen below, which shows that none of our driveways have volumes that warrant a right turn lane. In addition, we have included Excel Spreadsheets for the three individual driveways based on NCHRP 457.



In addition, we have reviewed the Palm Beach County Land Development Code which states that: “a 12 foot wide right turn lane with appropriate storage and transition shall be provided at each driveway where the street average daily traffic volumes exceed 10,000 vehicles per day and driveway volume exceeds 1,000 trips per day or 75 right turns inbound in the peak hour.”

Based on the trip generation and the driveway turning movements of this site, it is our opinion that accessibility to the site is adequate and no improvements are needed.

Sincerely,

Imtiaz Ahmed, P.E.
FL License No.: 46102

EXHIBIT A
LOCATION MAP



LOCATION MAP

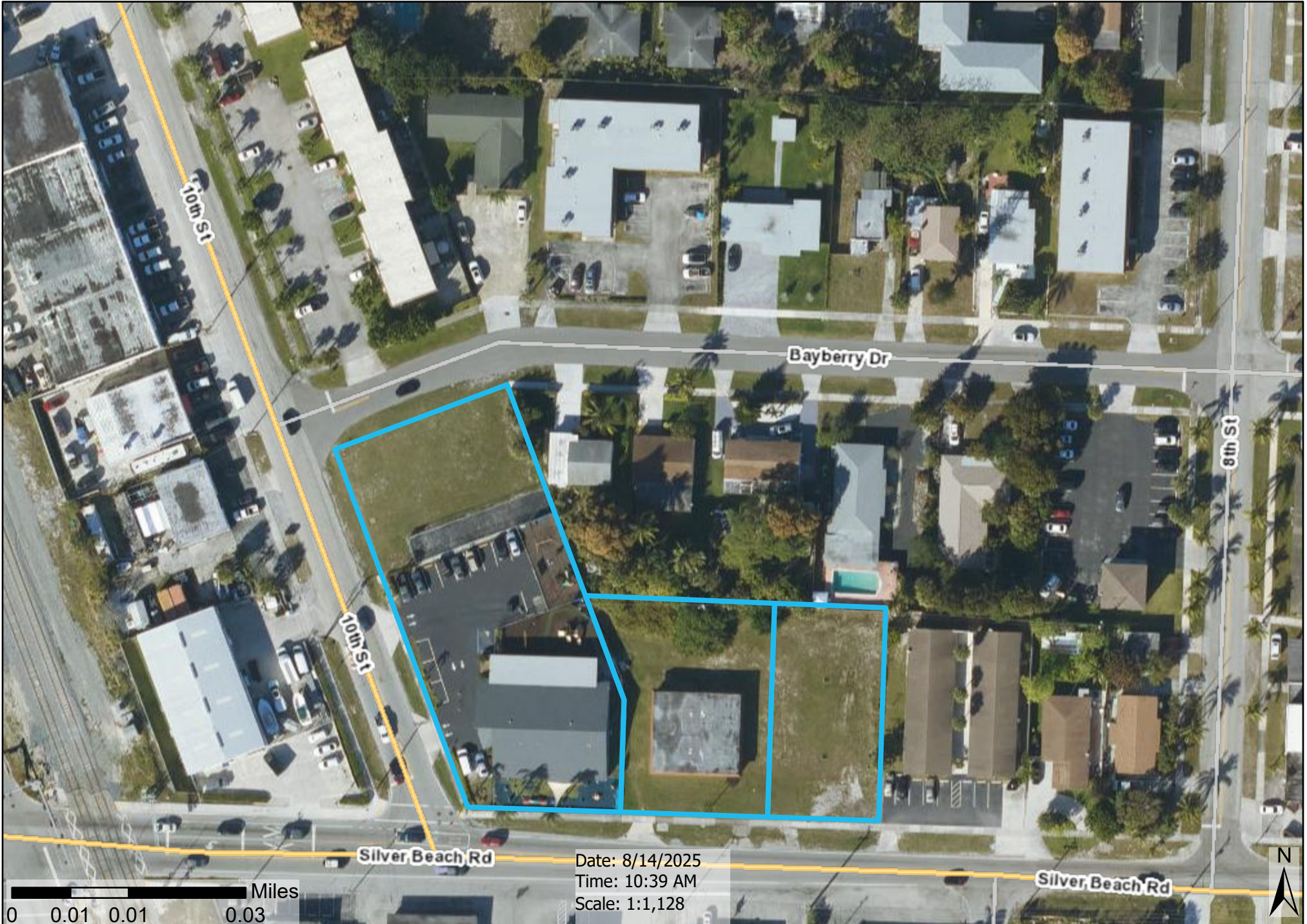
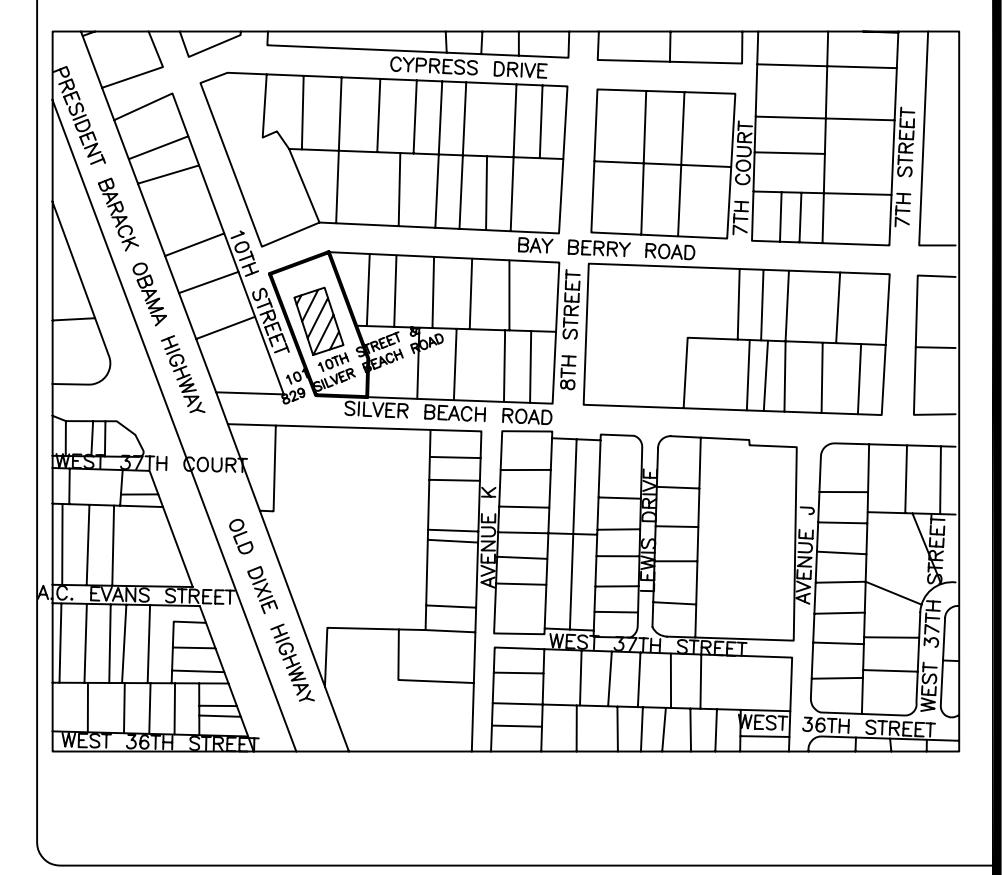
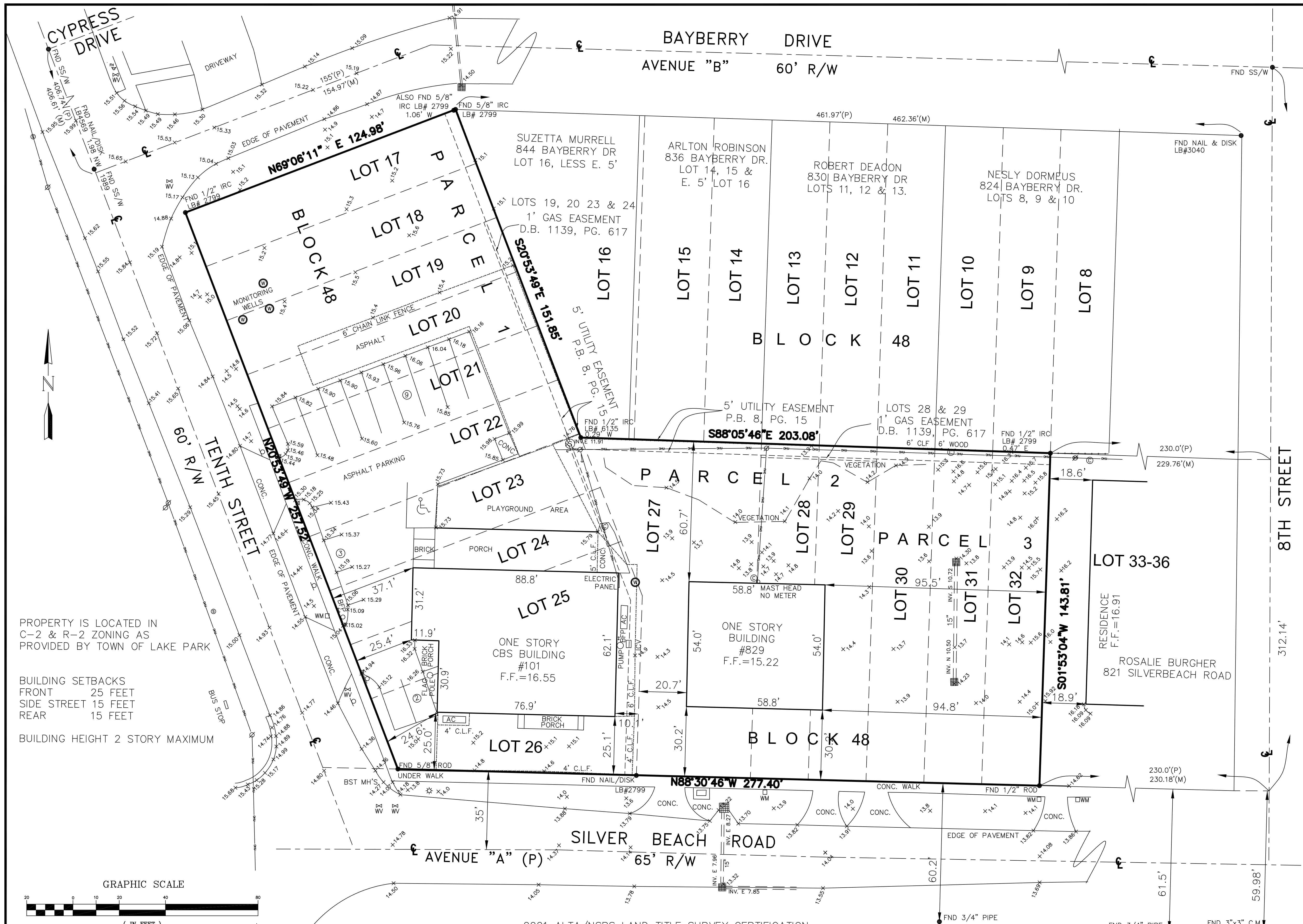


EXHIBIT B

SURVEY



LOCATION MAP

DESCRIPTION:

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Containing 60,339 square feet or 1.35 Acres more or less.

NOTE: LOTS 20-26, BLOCK 48, AFFECTED BY UNITY OF TITLE IN ORB 5578, PG. 322

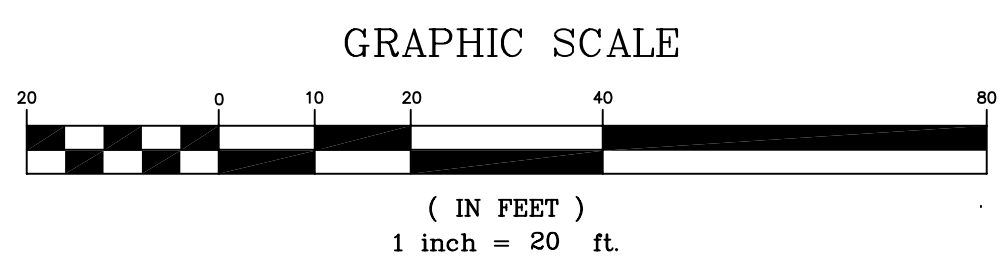
SURVEYOR'S NOTES:

- THIS BOUNDARY SURVEY WAS PERFORMED IN ACCORDANCE WITH TITLE COMMITMENT NO 1205303, DATED 1-7-2022 PREPARED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY. THE DESCRIPTION AND EASEMENTS AS STATED THEREIN ARE AS SHOWN HEREON.
- THIS BOUNDARY & TOPOGRAPHIC SURVEY MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE IN CHAPTER 5J-17.052 OF THE FLORIDA ADMINISTRATIVE CODES & ALTA 2021 STANDARDS.
- SUBSURFACE AND ENVIRONMENTAL CONDITIONS WERE NOT ADDRESSED AS A PART OF THIS SURVEY. ONLY VISIBLE ABOVE GROUND IMPROVEMENTS HAVE BEEN SHOWN. THERE MAY EXIST UNDERGROUND UTILITIES, FOUNDATIONS OR OTHER MATTERS WHICH HAVE NOT BEEN REFLECTED ON THIS SURVEY.
- ADDITIONS AND/OR DELETIONS TO THIS SURVEY MAP BY OTHER THAN THE SIGNING SURVEYOR IS PROHIBITED WITHOUT THE WRITTEN CONSENT OF THIS OFFICE.
- WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS AND DISTANCES ARE NOT TO BE SCALED FOR CONSTRUCTION AND/OR DESIGN PURPOSES.
- THIS MAP, AS DEPICTED IN ITS GRAPHIC FORM, BEARING THE SIGNATURE AND SEAL OF THE SURVEYOR, IS THE OFFICIAL DOCUMENT OF THE LANDS AS DESCRIBED HEREIN AND WILL IN NO CIRCUMSTANCE BE SUPPLANTED IN AUTHORITY BY ANY OTHER GRAPHIC OR DIGITAL FORM OF THE MAP.
- THIS SURVEY IS PREPARED FOR THE PARTIES AS STATED HEREON AND IS NOT ASSIGNABLE TO OTHER PARTIES WITHOUT THE WRITTEN CONSENT OF THE SURVEYOR.
- THIS SURVEY DOCUMENT, AS AN INSTRUMENT OF SERVICE, IS INTENDED FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED AND CERTIFIED. REUSE AND/OR RELIANCE UPON THIS DOCUMENT FOR ANY OTHER PURPOSE WITHOUT WRITTEN AUTHORIZATION AND ADAPTION BY DEAN SURVEYING & MAPPING, INC., SHALL BE WITHOUT LIABILITY TO DEAN SURVEYING & MAPPING, INC.
- ELEVATIONS AS SHOWN HEREON ARE SHOWN IN FEET AND DECIMAL PARTS THEREOF AND ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF 1988. REFERENCE BENCHMARK IS N.G.S. STEEL ROD DESIGNATED "U-402" WHICH HAS A PUBLISHED ELEVATION OF 20-735.
- THE ORIGINAL PLAT OF "KELSEY CITY" (NOW KNOWN AS LAKE PARK) CONSISTS OF EIGHT (8) SHEETS, WHICH ARE NOT CONSECUTIVELY NUMBERED. THE COVER SHEET SHEET CONTAINS THE DEDICATION, KEY MAP AND NOTES AND IS RECORDED AS PAGE 15 OF PLAT BOOK 8. SHEET 1 ENCOMPASSES THE AREA IN WHICH BLOCK 48 LIES AND IS RECORDED AS PAGE 27 OF PLAT BOOK OF PLAT BOOK 8.

PROPERTY IS LOCATED IN C-2 & R-2 ZONING AS PROVIDED BY TOWN OF LAKE PARK

BUILDING SETBACKS
 FRONT 25 FEET
 SIDE STREET 15 FEET
 REAR 15 FEET

BUILDING HEIGHT 2 STORY MAXIMUM



Legend

- ⊕ Indicates Set 1/2" Iron Rod & Cap #LB6936
- ⊙ Indicates Found Iron Rod & Cap
- Indicates Found Concrete Monument
- ⊕ Indicates Wood Utility Pole
- ⊕ Indicates Concrete Power Pole
- ⊕ Indicates Pole Anchor
- Indicates Catch Basin
- (P) Indicates Plat Dimension
- (G) Indicates Grid Bearing
- ⊕ Indicates Water Meter
- ⊕ Indicates Sanitary Cleanout
- OHUL— Indicates Overhead Utility Lines
- ⊕ Indicates Water Valve
- ⊕ Indicates FIRE HYDRANT
- ⊕ Indicates Storm Drainage Manhole
- ⊕ Indicates Light Pole
- ⊕ Indicates Bollard
- ⊕ Indicates Sign
- ⊕ Indicates Well
- ⊕ Indicates Sanitary Manhole

2021 ALTA/NSPS LAND TITLE SURVEY CERTIFICATION

TO: MICHEL INVEST LLC
 CHICAGO TITLE COMPANY
 BANK FIVE NINE
 FLORIDA FIRST CAPITAL FINANCE CORPORATION
 SMALL BUSINESS ADMINISTRATION

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1,2,3,4,6b,7a,7c,8,9,11a,13,16,17 AND 18 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JANUARY 21, 2025

DATE OF MAP OR PLAT 3/18/2025

| REVISIONS | DATE | DESCRIPTION |
|-----------------------|---------|---|
| UPDATE SURVEY TO ALTA | 1/21/25 | RICHARD N. DEAN Professional Surveyor & Mapper Florida Certificate No. 4496 LB. 6936 |

BOUNDARY AND TOPOGRAPHIC SURVEY Prepared For & certified to:
MICHEL INVEST LLC

101 10TH STREET &
 829 SILVER BEACH ROAD
 LAKE PARK, FL 33403

PROPERTY LIES IN FLOOD ZONE "X" AS PER NATIONAL FLOOD INSURANCE PROGRAM RATE MAP 12099C03876

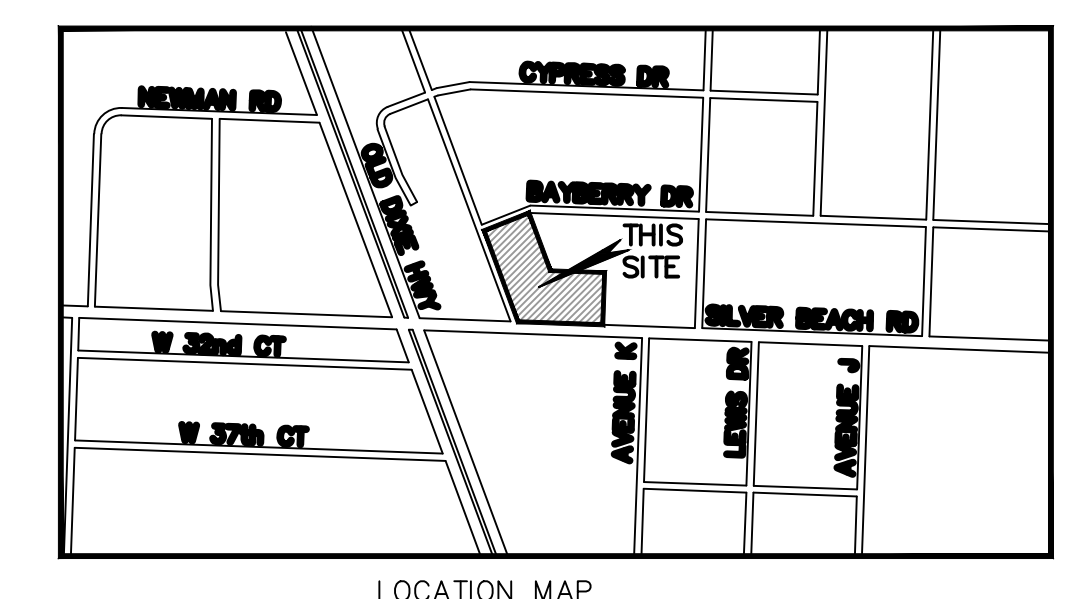
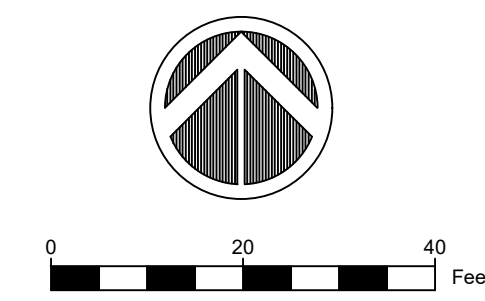
Richard N. Dean
 Professional Surveyor & Mapper
 Florida Certificate No. 4496
 LB. 6936

Dean Surveying and Mapping, Inc.
 "The Measuring Line Shall Go Forth" Jeremiah 31:39
 4201 Westgate Avenue
 Suite A3
 West Palm Beach, Florida 33409
 Tel:(561)625-8748

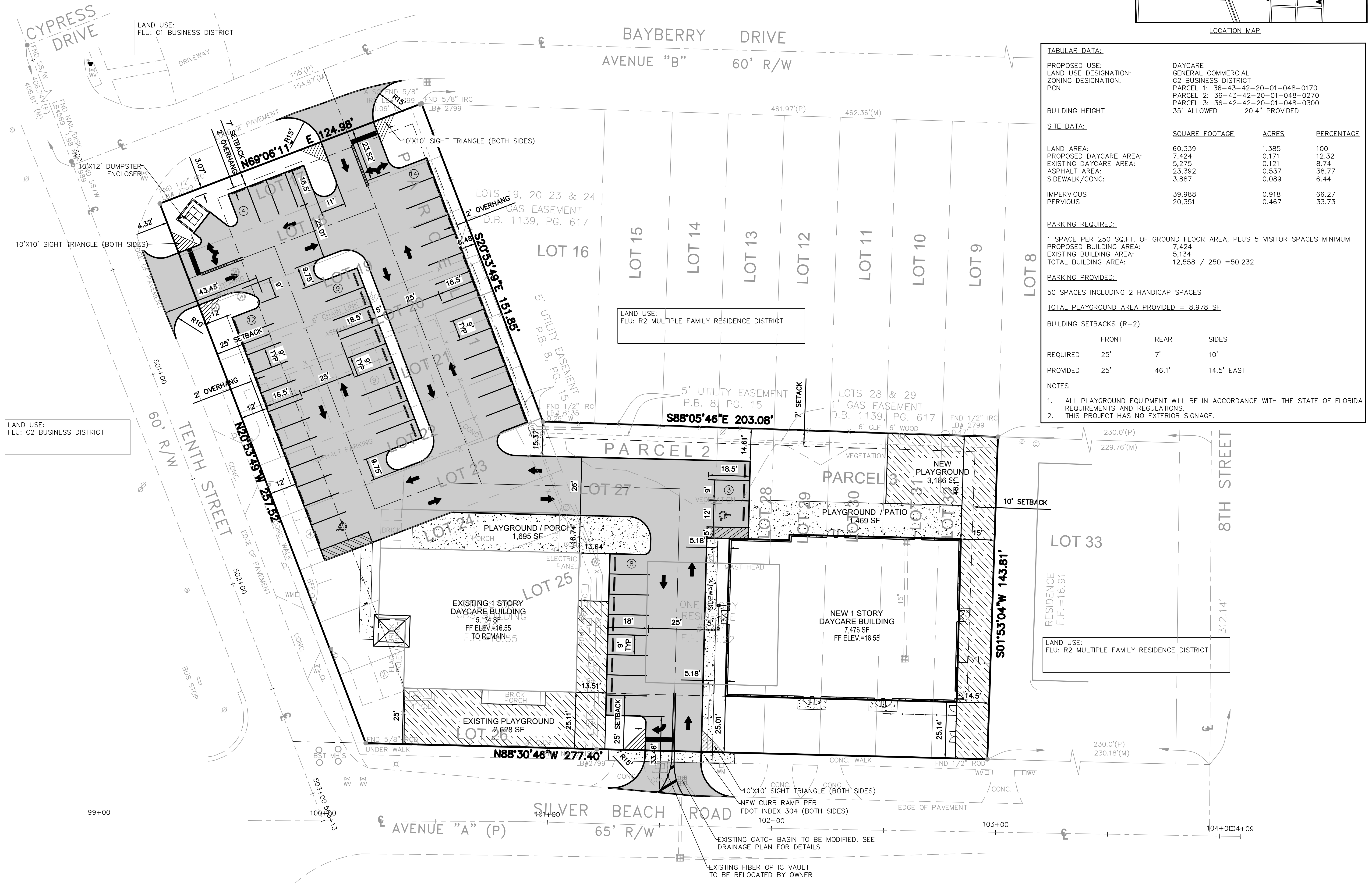
FIELD: R.N.D./L.L. DATE: 11-12-24
 DRAWN: M.R. SCALE: 1" = 20'
 SHEET: 1 of 1 JOB No.: 024-1102

EXHIBIT C

SITE PLAN



| REV. | DESCRIPTION | DATE |
|------|-------------|------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |



TABULAR DATA:

PROPOSED USE: DAYCARE
 LAND USE DESIGNATION: GENERAL COMMERCIAL
 ZONING DESIGNATION: C2 BUSINESS DISTRICT
 PCN

BUILDING HEIGHT: 35' ALLOWED / 20'4" PROVIDED

SITE DATA:

| | SQUARE FOOTAGE | ACRES | PERCENTAGE |
|------------------------|----------------|-------|------------|
| LAND AREA: | 60,339 | 1.385 | 100 |
| PROPOSED DAYCARE AREA: | 7,424 | 0.171 | 12.32 |
| EXISTING DAYCARE AREA: | 5,275 | 0.121 | 8.74 |
| ASPHALT AREA: | 23,392 | 0.537 | 38.77 |
| SIDEWALK/CONC: | 3,887 | 0.089 | 6.44 |
| IMPERVIOUS PERVIOUS | 39,988 | 0.918 | 66.27 |
| | 20,351 | 0.467 | 33.73 |

PARKING REQUIRED:

1 SPACE PER 250 SQ.FT. OF GROUND FLOOR AREA, PLUS 5 VISITOR SPACES MINIMUM

| | |
|-------------------------|-----------------------|
| PROPOSED BUILDING AREA: | 7,424 |
| EXISTING BUILDING AREA: | 5,134 |
| TOTAL BUILDING AREA: | 12,558 / 250 = 50.232 |

PARKING PROVIDED:

50 SPACES INCLUDING 2 HANDICAP SPACES

TOTAL PLAYGROUND AREA PROVIDED = 8,978 SF

BUILDING SETBACKS (R-2)

| | FRONT | REAR | SIDES |
|----------|-------|-------|------------|
| REQUIRED | 25' | 7' | 10' |
| PROVIDED | 25' | 46.1' | 14.5' EAST |

NOTES:

- ALL PLAYGROUND EQUIPMENT WILL BE IN ACCORDANCE WITH THE STATE OF FLORIDA REQUIREMENTS AND REGULATIONS.
- THIS PROJECT HAS NO EXTERIOR SIGNAGE.

IMTIAZ AHMED, P.E.
 LICENSED ENGINEER NO. 46102
 STATE OF FLORIDA

TWIGS ACADEMY
101 10th STREET, LAKE PARK, FL

ATLANTIC ENGINEERING SERVICES, INC.
 2822 WATERS EDGE CIRCLE
 GREENACRES, FLORIDA 33413
 PHONE - (561) 358-4140
 FAX - (561) 966-9242
 CERTIFICATE OF AUTHORIZATION NO.: 9390

PROJ. NO. _____
 SCALE: _____

| DES. | DWN. | CHK. |
|------|------|------|
| | | |

SHEET NUMBER
SP1

DATE DRAWN
 JULY 2025

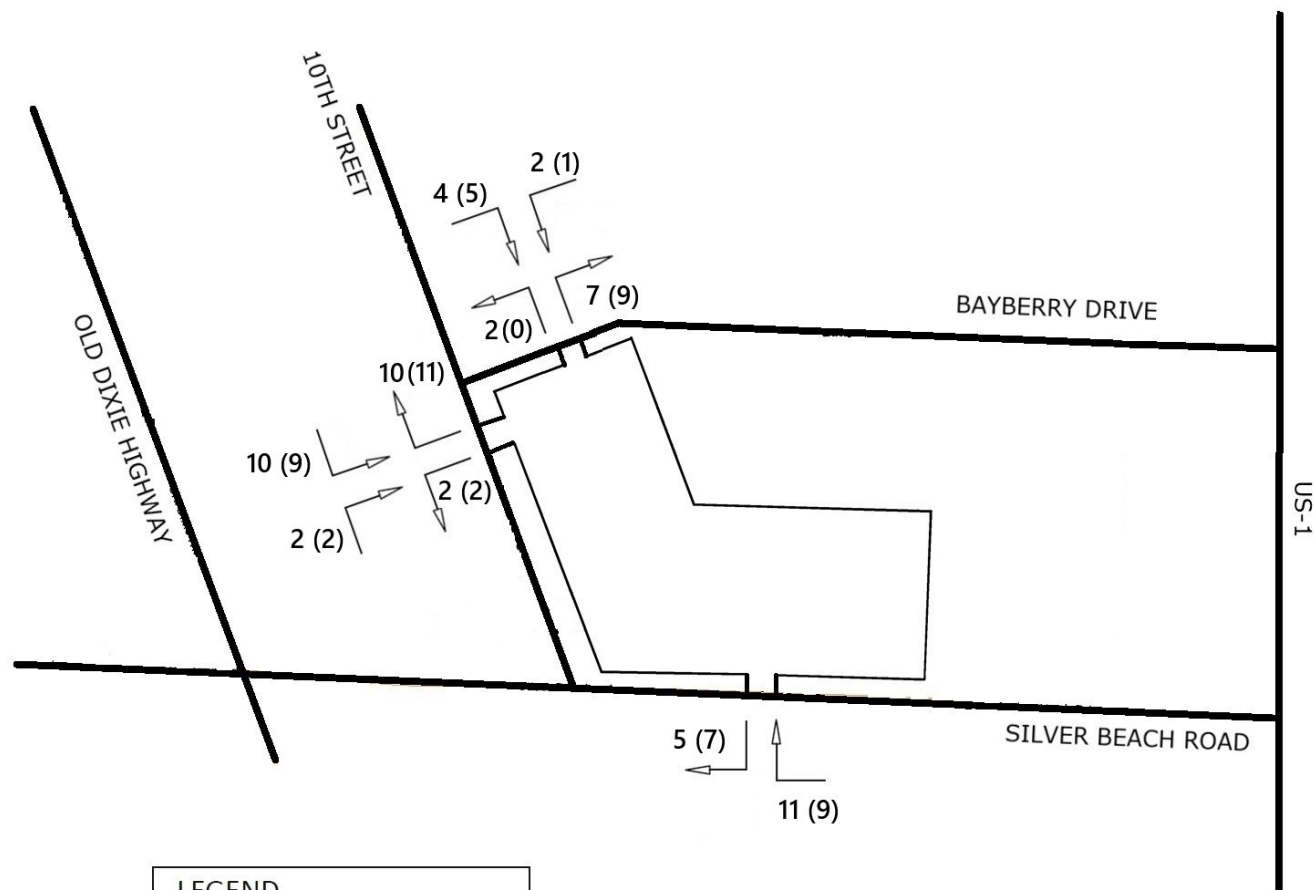
SITE PLAN



TWIGGS DAYCARE

EXHIBIT D
PROJECT TRAFFIC DISTRIBUTION

AES



| LEGEND | |
|------------|---------------|
| 55 | -AM PEAK HOUR |
| (55) | -PM PEAK HOUR |
| <u>286</u> | -AADT |

BAYBERRY DRIVE RIGHT TURN ANALYSIS

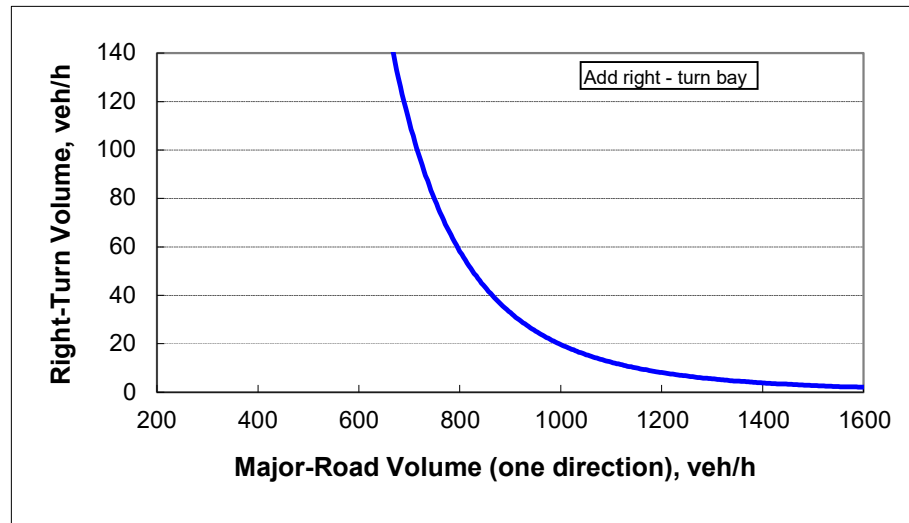
Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

| Roadway geometry: | 2-lane roadway |
|---|----------------|
| Variable | Value |
| Major-road speed, km/h: | 48 |
| Major-road volume (one direction), veh/h: | 100 |
| Right-turn volume, veh/h: | 10 |

OUTPUT

| Variable | Value |
|--|---------|
| Limiting right-turn volume, veh/h: | 1430082 |
| Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway: | |
| Do NOT add right-turn bay. | |



10TH STREET RIGHT TURN ANALYSIS

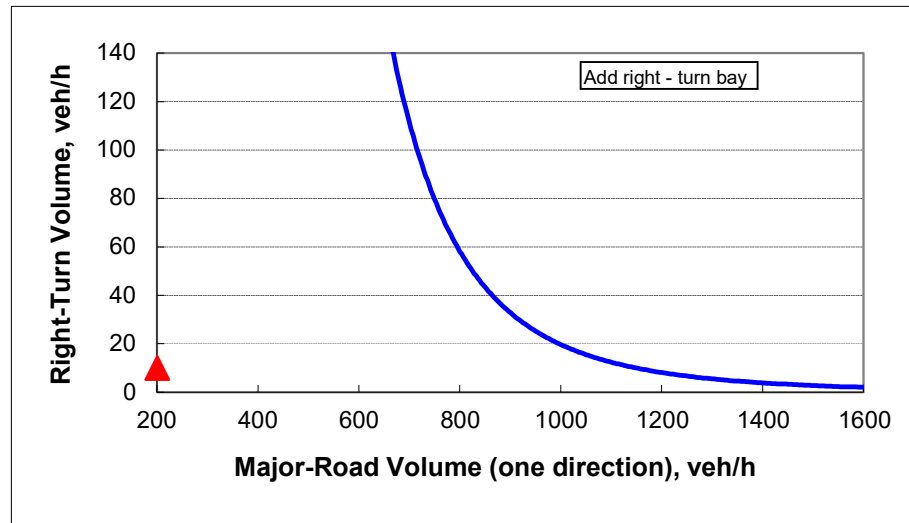
Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

| Roadway geometry: | 2-lane roadway |
|---|----------------|
| Variable | Value |
| Major-road speed, km/h: | 48 |
| Major-road volume (one direction), veh/h: | 200 |
| Right-turn volume, veh/h: | 10 |

OUTPUT

| Variable | Value |
|--|-------|
| Limiting right-turn volume, veh/h: | 49177 |
| Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway: | |
| Do NOT add right-turn bay. | |



SILVER BEACH ROAD RIGHT TURN ANALYSIS

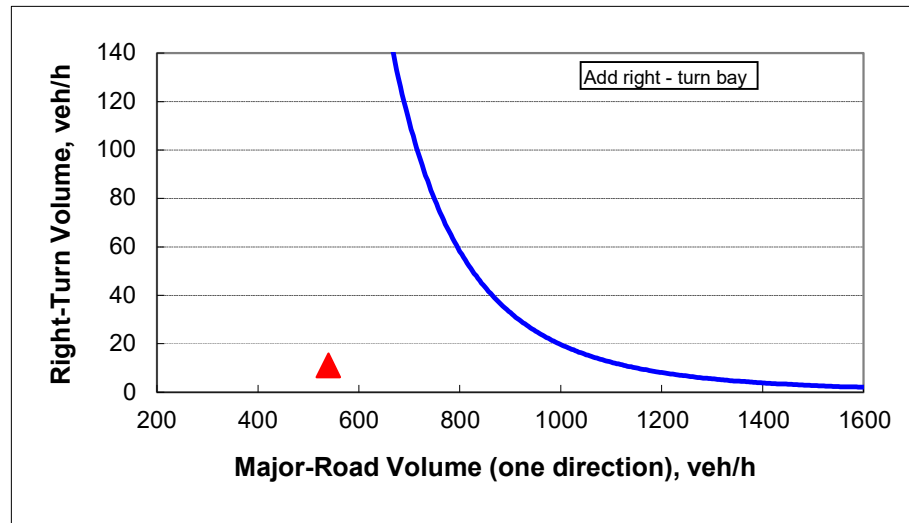
Figure 2 - 6. Guideline for determining the need for a major-road right-turn bay at a two-way stop-controlled intersection.

INPUT

| Roadway geometry: | 2-lane roadway |
|---|----------------|
| Variable | Value |
| Major-road speed, km/h: | 48 |
| Major-road volume (one direction), veh/h: | 539 |
| Right-turn volume, veh/h: | 11 |

OUTPUT

| Variable | Value |
|--|-------|
| Limiting right-turn volume, veh/h: | 397 |
| Guidance for determining the need for a major-road right-turn bay for a 2-lane roadway: | |
| Do NOT add right-turn bay. | |





September 5, 2025

Imtiaz Ahmed, P.E.
Atlantic Engineering Services, Inc.,
2826 Waters Edge Circle,
Greenacres, FL 33413

**Engineering and
Public Works Department**

P.O. Box 21229
West Palm Beach, FL 33416-1229
(561) 684-4000
FAX: (561) 684-4050
www.pbc.gov



**Palm Beach County
Board of County
Commissioners**

- Maria G. Marino, Mayor
- Sara Baxter, Vice Mayor
- Gregg K. Weiss
- Joel G. Flores
- Marci Woodward
- Maria Sachs
- Bobby Powell Jr.

County Administrator

Joseph Abruzzo

**RE: Twiggs Daycare
Project #: 250701
Traffic Performance Standards (TPS) Review**

Dear Mr. Ahmed:

The Palm Beach County Traffic Division has reviewed the above reference project Traffic Impact Statement, dated July 14, 2025, and supplemental changes and information provided in an email to the Traffic Division, dated 9/2/2025, pursuant to the Traffic Performance Standards in Article 12 of the Palm Beach County (PBC) Unified Land Development Code (ULDC). The project is summarized as follows:

| | |
|------------------------------|--|
| Municipality: | Lake Park |
| Location: | NEC of Silver Beach Road and 10 th Street |
| PCN: | 36-43-42-20-01-048-0270/-0170/-0300 |
| Access: | One right-in/right-out access connection onto Silver Beach Road, one full access connection onto 10 th Street, and one full access connection onto Bayberry Drive <u>(As used in the study and is NOT necessarily an approval by the County through this TPS letter)</u> |
| Existing Uses: | Daycare = 75 Students, and Single Family Residential Detached = 1 DU |
| Proposed Uses: | Daycare = 140 Students |
| Net Daily Trips: | 123 (Existing – Proposed) |
| Net Peak Hour Trips: | 25 (14/11) AM; 24 (11/13) PM (Existing – Proposed) |
| Proj Daily Trips: | 286 |
| Proj Peak Hour Trips: | 55 (29/26) AM; 55 (26/29) PM |
| Build-out: | December 31, 2027 |

Based on our review, the Traffic Division has determined the proposed use will have an insignificant impact on the area roadways within the Radius of Development Influence. Therefore, it **meets** the TPS of Palm Beach County.

Please note the receipt of a TPS approval letter does not constitute the review and issuance of a Palm Beach County Right-of-Way (R/W) Construction Permit nor does it eliminate any requirements that may be deemed as site related. For work within Palm Beach County R/W, a detailed review of the project will be provided upon submittal for a R/W permit application. The project is required to comply with all Palm Beach County standards and may include R/W dedication.

No building permits are to be issued by the Town after the build-out date specified above, or as amended. The County traffic concurrency approval is subject to the Project Aggregation Rules set forth in the Traffic Performance Standards Ordinance.

"An Equal Opportunity Employer"



Imtiaz Ahmed, P.E.
September 5, 2025
Page 2 of 2

The approval letter shall be valid no longer than one year from date of issuance, unless an application for a Site Specific Development Order has been approved, an application for a Site Specific Development Order has been submitted, or the approval letter has been superseded by another approval letter for the same property.

If you have any questions regarding this determination, please contact me at 561-478-5755 or email MRahman@pbc.gov.

Sincerely,

Moshir Rahman, Ph.D., P.E.
Professional Engineer
Engineering and Public Works Dept.
Traffic Division

MR:QB:ep

cc: Nadia Di Tommaso, Director of Community Development, Town of Lake Park
Quazi Bari, P.E., PTOE, Manager - Growth Management, Traffic Division
Alberto Lopez Tagle, Technical Assistant III, Traffic Division

File: General - TPS - Mun - Traffic Study Review
F:\TRAFFIC\MR\MUN\APPROVED\2025\250701 TWIGGS DAYCARE.DOCX

Atlantic Engineering Services, Inc.

Contact:

Imtiaz Ahmed, P.E.

**2826 Waters Edge Circle
Green Acres, FL 33413
Phone: 561.358.4140**

TWIGGS ACADEMY

Stormwater Management Report

March 2026

PRE CONSTRUCTION CALCULATIONS

TWIGGS PRE

SFWMD 72-hr 100Y - 72H Rainfall=18.40"

Prepared by Spectrum Designs

Printed 3/6/2026

HydroCAD® 10.20-7a s/n 14025 © 2025 HydroCAD Software Solutions LLC

Summary for Subcatchment 1S: (new Subcat)

Runoff = 15.24 cfs @ 59.89 hrs, Volume= 1.896 af, Depth>16.43"
 Routed to Pond 2P : STORAGE

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 SFWMD 72-hr 100Y - 72H Rainfall=18.40"

| | Area (sf) | CN | Description |
|---|-----------|----|---------------------------------|
| * | 20,004 | 98 | |
| | 40,335 | 79 | 50-75% Grass cover, Fair, HSG C |
| | 60,339 | 85 | Weighted Average |
| | 40,335 | | 66.85% Pervious Area |
| | 20,004 | | 33.15% Impervious Area |

| Tc (min) | Length (feet) | Slope (ft/ft) | Velocity (ft/sec) | Capacity (cfs) | Description |
|-------------|------------------|------------------|----------------------|-------------------|------------------------------|
| 10.0 | | | | | Direct Entry, Minimum |

TWIGGS PRE

SFWMD 72-hr 100Y - 72H Rainfall=18.40"

Prepared by Spectrum Designs

Printed 3/6/2026

HydroCAD® 10.20-7a s/n 14025 © 2025 HydroCAD Software Solutions LLC

Summary for Pond 2P: STORAGE

Inflow Area = 1.385 ac, 33.15% Impervious, Inflow Depth > 16.43" for 100Y - 72H event
 Inflow = 15.24 cfs @ 59.89 hrs, Volume= 1.896 af
 Outflow = 0.00 cfs @ 0.00 hrs, Volume= 0.000 af, Atten= 100%, Lag= 0.0 min

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 Peak Elev= 15.83' @ 72.00 hrs Surf.Area= 60,339 sf Storage= 82,569 cf

Plug-Flow detention time= (not calculated: initial storage exceeds outflow)
 Center-of-Mass det. time= (not calculated: no outflow)

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|--|
| #1 | 14.00' | 59,406,308 cf | Custom Stage Data (Prismatic) Listed below (Recalc) |

| Elevation (feet) | Surf.Area (sq-ft) | Inc.Store (cubic-feet) | Cum.Store (cubic-feet) |
|---------------------|----------------------|---------------------------|---------------------------|
| 14.00 | 5,125 | 0 | 0 |
| 15.00 | 60,339 | 32,732 | 32,732 |
| 999.00 | 60,339 | 59,373,576 | 59,406,308 |

TWIGGS PRE

Prepared by Spectrum Designs

HydroCAD® 10.20-7a s/n 14025 © 2025 HydroCAD Software Solutions LLC

SFWMD 72-hr 100Y - 72H Rainfall=18.40"

Printed 3/6/2026

Events for Pond 2P: STORAGE

| Event | Inflow (cfs) | Elevation (feet) | Storage (cubic-feet) |
|------------|-----------------|---------------------|-------------------------|
| 3Y - 1H | 3.84 | 14.17 | 1,670 |
| 5Y - 1H | 5.24 | 14.24 | 2,752 |
| 5Y - 24H | 4.99 | 14.88 | 25,758 |
| 25Y - 72H | 10.85 | 15.41 | 57,221 |
| 100Y - 72H | 15.24 | 15.83 | 82,569 |

TWIGGS PRE-DEVELOPMENT DATA

Acreage

| Basin Name | Basin 01 | |
|---------------|----------|----|
| Total Acreage | 1.39 | ac |
| Building | 0.19 | ac |
| Pavement | 0.27 | ac |
| Pond (NWL) | 0.00 | ac |
| Pervious | 0.93 | ac |

| Area Data | sq ft | acres |
|--|--------|-------|
| Drainage Area | 60,339 | 1.39 |
| Total Impervious Area Breakdown | | |
| Building | 8,330 | 0.19 |
| Pavement | 11,676 | 0.27 |
| Sidewalks | NA | NA |
| Total | 20,006 | 0.46 |
| Open Area / Landscape Area | | |
| Total open area | 40,333 | 0.93 |

Runoff Coefficient (C)

| Coverage | C | Percentage of Total | C x Percentage |
|------------------|------|---------------------|----------------|
| Pond | 0.00 | 0% | 0.00 |
| Pervious | 0.93 | 67% | 0.62 |
| Impervious | 0.46 | 33% | 0.15 |
| Composite | | 100% | 0.77 |

Curve Number (CN) Calculations

| Coverage | CN | Acreage | C x Acreage |
|----------------------------|-----|---------|---------------|
| Pond | 100 | 0.00 | 0.00 |
| Pervious | 60 | 0.93 | 55.56 |
| Impervious | 98 | 0.46 | 45.01 |
| Sum of CN x Acreage | | | 100.56 |
| Composite CN | | | 73 |

Time of Concentration

#1 Sheet Flow (< 300 linear feet)

| | | |
|------------------------|-------|--|
| Manning's n | 0.15 | (From Table 3-1) |
| 2YR-24HR Rainfall (in) | 5.63 | (P2) |
| Length (ft) | 200 | |
| Slope (ft/ft) | 0.50% | <i>*Remember that 2% is the same as 0.02 ft/ft, 5% is 0.05 ft/ft, and so on...</i> |
| Tt (mins) | 22.4 | |

#2 Unpaved Concentrated Flow

| | |
|---------------|------|
| Length (ft) | 0 |
| Slope (ft/ft) | 0.01 |
| Tt (mins) | 0.00 |

#3 Paved Concentrated Flow

| | |
|---------------|-------|
| Length (ft) | 0 |
| Slope (ft/ft) | 0.005 |
| Tt (mins) | 0.00 |

| | | |
|---|-------------|-------------|
| #4 Total Time of Concentration (Sum of #1-3) | 22.4 | mins |
|---|-------------|-------------|

Minimum Tc used = 10 minutes

POST CONSTRUCTION CALCULATIONS

TWIGGS POST DEVELOPMENT DATA

Acreage

| Basin Name | Basin 01 | |
|---------------|----------|----|
| Total Acreage | 1.39 | ac |
| Building | 0.29 | ac |
| Pavement/Conc | 0.64 | ac |
| Pond (NWL) | 0.00 | ac |
| Pervious | 0.45 | ac |

| Area Data | sq ft | acres |
|--|--------|-------|
| Drainage Area | 60,339 | 1.39 |
| Total Impervious Area Breakdown | | |
| Building | 12,676 | 0.29 |
| Pavement | 24,500 | 0.56 |
| Sidewalks | 4,568 | 0.10 |
| Total | 41,744 | 0.96 |
| Open Area / Landscape Area | | |
| Total open area | 18,595 | 0.43 |

Runoff Coefficient (C)

| Coverage | C | Percentage of Total | C x Percentage |
|------------------|------|---------------------|----------------|
| Pond | 0.00 | 0% | 0.00 |
| Pervious | 0.45 | 33% | 0.15 |
| Impervious | 0.93 | 67% | 0.63 |
| Composite | | 100% | 0.77 |

Curve Number (CN) Calculations

| Coverage | CN | Acreage | C x Acreage |
|----------------------------|-----|---------|---------------|
| Pond | 100 | 0.00 | 0.00 |
| Pervious | 60 | 0.45 | 27.25 |
| Impervious | 98 | 0.93 | 91.24 |
| Sum of CN x Acreage | | | 118.49 |
| Composite CN | | | 86 |

Time of Concentration

#1 Sheet Flow (< 300 linear feet)

| | | |
|------------------------|-------|---|
| Manning's n | 0.15 | (From Table 3-1) |
| 2YR-24HR Rainfall (in) | 5.63 | (P2) |
| Length (ft) | 92 | |
| Slope (ft/ft) | 0.48% | <i>*Remember that 2% is the same as 0.02 ft/ft, 5% is 0.05 ft/ft, and so on....</i> |
| Tt (mins) | 12.2 | |

#2 Unpaved Concentrated Flow

| | |
|---------------|------|
| Length (ft) | 0 |
| Slope (ft/ft) | 0.01 |
| Tt (mins) | 0.00 |

#3 Paved Concentrated Flow

| | |
|---------------|-------|
| Length (ft) | 150 |
| Slope (ft/ft) | 0.005 |
| Tt (mins) | 1.74 |

| | | |
|---|-------------|-------------|
| #4 Total Time of Concentration (Sum of #1-3) | 14.0 | mins |
|---|-------------|-------------|

Minimum Tc used = 10 minutes

TWIGGS POST DEVELOPMENT DATA

Water Quality Treatment Volumes SFWMD

| | | sq ft | acres |
|---|--|--------|--------|
| Total Drainage Area | | 60,339 | 1.39 |
| Impervious Area Breakdown (Total Site-Roof Areas) | | 41,744 | 0.96 |
| WQTV Impervious Area Breakdown (Total Impervious-Open Area) | | 23,149 | 0.53 |
| Percentage of Impervious Area | | 69.18% | |
| Percentage of Impervious to be treated (%Imp x 2.5 inches) | | 1.73 | Inches |

(Total Drainage Area) x (1.0 inches)= 5,028 cf

or

(Impervious Area) x (2.5 Inches)= 8,697 cf

100% of Water Quality Treatment Volume= 8,697 cf
0.200 ac-ft

| | | |
|---|-------|-------|
| FINAL WQTV with Volume Reduction (100% for Wet Detention, | 8,697 | cf |
| 75% for Dry Detention, 50% for Retention) | 0.200 | ac-ft |

Exfiltration Trench has 0 reduction in this formula since the SFWMD already accounts for this reduction in the Trench Design Formula.

Refers to the Stormwater Water Quality criteria. Part 4.2.1 - SFWMD ERP Handbook Volume 2 and Example I in Part III Section W (Pages W-1 thru w-5)

TWIGGS POST DEVELOPMENT DATA

Water Storage - 3Yr-1Hr Storm

| | | | |
|-----------------------------------|--------------------|---------|--------------|
| 3 Year - 1 Hour Depth (in)= | 2.41 | | |
| Curve Number (Pre)= | 73 | | |
| Curve Number (Post)= | 86 | | |
| Drainage Area (ft ²)= | 60,339.00 | SqFt | |
| Runoff (Q-Pre)= | 0.98 | Inches | From HydoCad |
| Runoff (Q-Post)= | 2.35 | Inches | From HydoCad |
| Delta Q= | 1.37 | Inches | |
| | (ft ³) | (Ac-ft) | |
| Pre Water Storage Volume | 887.00 | 0.020 | From HydoCad |
| Post Water Storage Volume | 2831.40 | 0.065 | From HydoCad |
| Delta (Post-Pre) Water Volume | 1944.40 | 0.045 | |

Water Storage - 5Yr-1Hr Storm

| | | | |
|-----------------------------------|--------------------|---------|--------------|
| 5 Year - 1 Hour Depth (in)= | 2.94 | | |
| Curve Number (Pre)= | 63 | | |
| Curve Number (Post)= | 92 | | |
| Drainage Area (ft ²)= | 60,339.00 | SqFt | |
| Runoff (Q-Pre)= | 1.21 | Inches | From HydoCad |
| Runoff (Q-Post)= | 2.68 | Inches | From HydoCad |
| Delta Q= | 1.47 | Inches | |
| | (ft ³) | (Ac-ft) | |
| Pre Water Storage Volume | 1165.00 | 0.027 | From HydoCad |
| Post Water Storage Volume | 3223.44 | 0.074 | From HydoCad |
| Delta (Post-Pre) Water Volume | 2058.44 | 0.047 | |

Water Storage - 5Yr-24Hr Storm

| | | | |
|-----------------------------------|--------------------|---------|--------------|
| 5 Year - 24 Hour Depth (in)= | 7.48 | | |
| Curve Number (Pre)= | 63 | | |
| Curve Number (Post)= | 92 | | |
| Drainage Area (ft ²)= | 60,339.00 | SqFt | |
| Runoff (Q-Pre)= | 3.94 | Inches | From HydoCad |
| Runoff (Q-Post)= | 6.05 | Inches | From HydoCad |
| Delta Q= | 2.11 | Inches | |
| | (ft ³) | (Ac-ft) | |
| Pre Water Storage Volume | 4642.00 | 0.107 | From HydoCad |
| Post Water Storage Volume | 7274.52 | 0.167 | From HydoCad |
| Delta (Post-Pre) Water Volume | 2632.52 | 0.060 | |

Water Storage - 25Yr-72Hr Storm

| | | | |
|-----------------------------------|--------------------|---------|--------------|
| 25 Year - 72 Hour Depth (in)= | 13.30 | | |
| Curve Number (Pre)= | 63 | | |
| Curve Number (Post)= | 92 | | |
| Drainage Area (ft ²)= | 60,339.00 | SqFt | |
| Runoff (Q-Pre)= | 10.35 | Inches | From HydoCad |
| Runoff (Q-Post)= | 13.00 | Inches | From HydoCad |
| Delta Q= | 2.65 | Inches | |
| | (ft ³) | (Ac-ft) | |
| Pre Water Storage Volume | 12211.00 | 0.280 | From HydoCad |
| Post Water Storage Volume | 15550.92 | 0.357 | From HydoCad |
| Delta (Post-Pre) Water Volume | 3339.92 | 0.077 | |

Water Storage - 100Yr-72Hr Storm

| | | | |
|-----------------------------------|--------------------|---------|--------------|
| 100 Year - 72 Hour Depth (in)= | 18.40 | | |
| Curve Number (Pre)= | 63 | | |
| Curve Number (Post)= | 92 | | |
| Drainage Area (ft ²)= | 60,339.00 | SqFt | |
| Runoff (Q-Pre)= | 12.75 | Inches | From HydoCad |
| Runoff (Q-Post)= | 15.49 | Inches | From HydoCad |
| Delta Q= | 2.74 | Inches | |
| | (ft ³) | (Ac-ft) | |
| Pre Water Storage Volume | 15035.00 | 0.345 | From HydoCad |
| Post Water Storage Volume | 18556.56 | 0.426 | From HydoCad |
| Delta (Post-Pre) Water Volume | 3521.56 | 0.081 | |

| | | |
|----------------------------|----------|-------|
| Pre Water Storage Volume= | 15035.00 | 0.345 |
| Post Water Storage Volume= | 13496.84 | 0.310 |

TWIGGS POST DEVELOPMENT DATA

Exfiltration Min. Size

Total Drainage Area (A) = 1.39 Acres
Weighted Curve Number (C)= 86
Time of Concentration (Tc)= 10 Minutes

Water volume Required to Retain the Max of the
WQTV or Delta Post Development -Pre Development
3YR-1HR Storm 0.0446 Ac-ft

Calculations

Assumption that the first 1" runoff is completely polluted

Time to Generate 1-inch Runoff (T1) = 10.60 MIN
Design Frequency (F)= 10 YR

POLLUTED RUNOFF DURATION Tt

Time of Concentration = 10 MIN
Time to Generate 1-Inch Runoff (T1) 10.60 MIN
Total Storm Duration (Tt) 20.60 MIN

STORM INTENSITY FORMULA

Storm Intensity (i)= 6.58 INCH/HR

PEAK DISCHARGE

Peak Discharge (Q)= 780.19 CFS

TWIGGS POST DEVELOPMENT DATA

| MAXIMUM POLLUTED (TREATMENT) VOLUME | | V'=600QTt |
|--|---------|-----------|
| Maximum Polluted Volume (V')= | 964,325 | CF |
| | 22.1379 | Ac-ft |
| Volume of 3YR-1HR Storm= | 0.045 | Ac-ft |
| Volume of Storage (Vatt)= | 0.045 | Ac-ft |
| Volume Water Quality (Vwq)= | 0.200 | Ac-ft |
| Volume to be Retained on Trench (Vtotal)= | 0.200 | Ac-ft |

| DETERMINING TRENCH STORAGE | | |
|--|--------|---------------------|
| Average Ground Elevation= | 15.50 | FT |
| Seasonal High Water Table (SWHT)= | 2.65 | FT |
| Exfiltration Trench Pipe Diameter= | 2.00 | FT |
| Pipe Invert Elevation= | 8.50 | FT |
| Pipe Area Above SHWT (A _{pipe})= | 4.91 | SF |
| | | |
| Top of Trench Elevation= | 12.5 | FT |
| Height of Trench Above SHWT (D _u)= | 9.50 | FT |
| Height of Trench Below SHWT (D _s)= | 0.00 | FT |
| Width of Trench (W)= | 8.00 | FT |
| Height of Trench (H)= | 9.50 | FT |
| Exfiltration Trench Aggregate Porosity (f)= | 0.30 | |
| | | |
| A _{trench} =f(W*D _u -A _{pipe}) | | |
| Exfiltration Trench Storage Area (A _{trench})= | 21.327 | SF |
| | | |
| S=A _{trench} +A _{pipe} | | |
| Storage in Trench (S)= | 26.236 | FT ³ /FT |

DETERMINING LENGTH OF EXFILTRATION TRENCH

FDOT DISTRICT VI METHOD

$$E_T = 2K_{10} \left(\frac{D_U}{2} + D_S \right) H_2 + 2K_{15}d_2H_2 + 2K_{20}d_3H_2$$

$$L = \frac{V_T}{S + 60 * E_T T_T}$$

FDOT EMPIRICAL METHOD

Eq.2- Use Eq.2 if trench width is twice the depth of exfiltration trench or if saturated depth (Ds) is greater than non-saturated trench depth (Du).

$$L = \frac{FS[(\%WQ)(Vwq) + Vadd]}{K(2 \times H_2 \times D_U - D_U^2 + 2 \times H_2 \times D_S) + 1.39 \times 10^{-4} \times W \times D_U}$$

2.396 Convert storage to ac-in
0.00 0.01056 0.01370

Using Eq.2

174.91

| | | |
|-------------------------------------|----------|--------------|
| Average Hydraulic Conductivity (K)= | 7.33E-05 | CFS-/FT^2-FT |
| Height of Trench Below SHWT (Ds)= | 0.00 | FT |
| Height of Trench Above SHWT (Du)= | 9.50 | FT |

| | | |
|---|-------|---------|
| Average Ground Elevation= | 15.50 | FT |
| Seasonal High Water Table (SHWT)= | 2.65 | FT |
| Current Head (H2)= | 7.00 | FT |
| Volume to be Retained in Trench Under Formula (Vt)= | | Acre-in |
| Storage in Trench (S)= | 26.24 | FT^3/FT |
| Width of Trench (W)= | 8.00 | FT |

| | | |
|--|--------|----|
| Required Length of Trench (L)= | 174.91 | FT |
| Safety Factor (SF)= | 2 | |
| Proposed Length of Trench Based on Formula | 349.81 | FT |
| Proposed Length of Trench Based on Excess Volume | 65.19 | FT |
| Proposed Length of Trench (L)= | 415 | FT |

TWIGGS POST DEVELOPMENT DATA

SITE PARAMETERS - EXFILTRATION MAX VOLUME

From initial Storage Calculations

| | | |
|-----------------------------|-------|---------|
| Total Drainage Area (A)= | 1.385 | Ac |
| Weighted Curve Number (C)= | 86 | |
| Time of Concentration (Tc)= | 10 | Minutes |

| | | |
|---|----------|-------|
| Max Volume for Design Length (Volume Manually Entered to Generate Exact Exfiltration | 0.235000 | Ac-ft |
|---|----------|-------|

CALCULATIONS

Assumption that the First 1" of Runoff is Completely Polluted.

$$t_1 = \frac{2940F^{-0.11}}{308.5C - 60.5(0.5895 + F^{-0.67})}$$

| | |
|--|---------|
| | 2282.17 |
| | 215.29 |
| | 10.60 |

| | | |
|---------------------------------------|-------|---------|
| Time to Generate 1-Inch Run-off (t1)= | 10.60 | Minutes |
| Design Frequency (F)= | 10 | YR |

*Formula Developed by FDOT Distric VI

Polluted Run-off Duration (Tt)

$$T_T = t_C + t_1$$

| | | |
|---------------------------------------|-------|---------|
| Time of Concentration (Tc)= | 10 | Minutes |
| Time to Generate 1-Inch Run-off (t1)= | 10.60 | Minutes |
| Total Storm Duration (Tt)= | 20.60 | Minutes |

Storm Intensity Formula

$$i = \frac{308.5}{48.6 * F^{-0.11} + T_T(0.5895 + F^{-0.67})}$$

| | |
|--|--------|
| | 308.50 |
| | 54.27 |
| | 5.68 |

| | | |
|----------------------|------|---------|
| Storm Intensity (i)= | 5.68 | Inch/hr |
|----------------------|------|---------|

Peak Discharge

$$Q = CiA$$

| | | |
|---------------------|-----|-----|
| Peak Discharge (Q)= | 674 | CFS |
|---------------------|-----|-----|

Maximum Polluted (Treatment) Volume

$$V' = 60QT_T$$

| | |
|---|------------|
| Maximum Polluted (Treatment) Volume (V')= | 832,474.35 |
|---|------------|

Volume to be retained in Trench (Vtotal)=

Max Volume That Trench Can Retain within formula (Vformula)=

Excess Volume to be Retained in Trench (Vexcess)=

DETERMING TRENCH STORAGE

| | | |
|--|-------|----|
| Average Ground Elevation= | 15.50 | FT |
| Seasonal High Water Table (SHWT)= | 2.65 | FT |
| Exfiltration Trench Pipe Diameter= | 2.00 | FT |
| Pipe Invert Elevation= | 8.50 | FT |
| Pipe Area Above SHWT (A _{pipe})= | 4.91 | SF |
| Trench Top Elevation | 12.5 | FT |
| Height of Trench Above SHWT (D _u)= | 9.50 | FT |
| Height of Trench Below SHWT (D _s)= | 0.00 | FT |
| Width of Trench (W)= | 8.00 | FT |
| Exfiltration Trench Aggregate Porosity (f)= | 0.30 | |

EXFILTRATION TRENCH CALCULATIONS - ACTUAL MAX STORAGE VOLUME CALCULATIONS

$$A_{trench} = f(W * D_u - A_{pipe})$$

| | | |
|--|-------|----|
| Exfiltration Trench Storage Area (A _{trench})= | 21.33 | SF |
|--|-------|----|

$$S = A_{trench} + A_{pipe}$$

| | | |
|------------------------|-------|---------------------|
| Storage in Trench (S)= | 26.24 | FT ³ /FT |
|------------------------|-------|---------------------|

DETERMING LENGTH OF EXFILTRATION TRENCH

FDOT DISTRICT VI METHOD

$$E_T = 2K_{10} \left(\frac{D_U}{2} + D_S \right) H_2 + 2K_{15} d_2 H_2 + 2K_{20} d_3 H_2$$

$$L = \frac{V_T}{S + 60 * E_T T_T}$$

FDOT EMPIRICAL METHOD

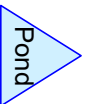
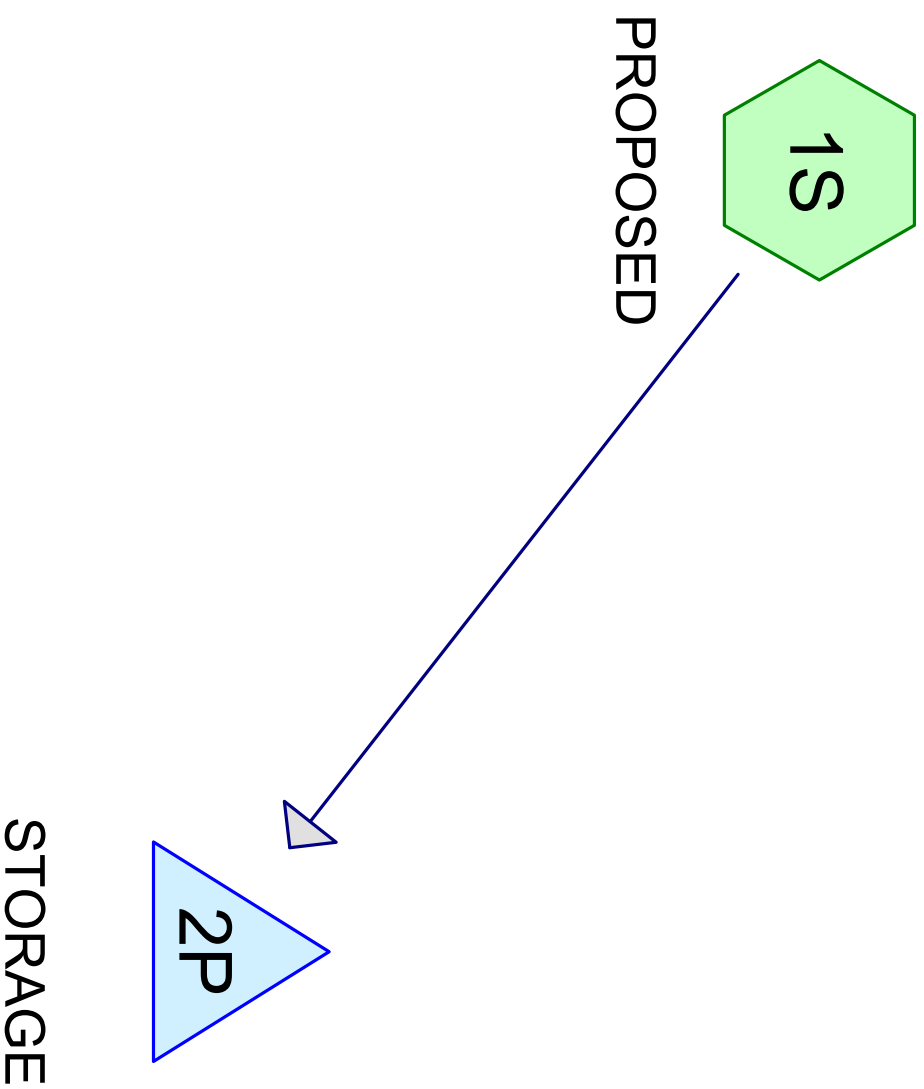
Eq.2- Use Eq.2 if trench width is twice the depth of exfiltration trench or if saturated depth (D_s) is greater than non-saturated trench depth (D_u).

$$L = \frac{FS[(\%WQ)(Vwq) + V_{add}]}{K(2 \times H_2 \times D_U - D_U^2 + 2 \times H_2 \times D_S) + 1.39 \times 10^{-4} \times W \times D_U}$$

2.820
0.01

Using Eq.2 205.88

| | | |
|--|----------|--------------------------|
| Average Hydraulic Conductivity (K)= | 7.33E-05 | CFS-/FT ² -FT |
| Height of Trench Below SHWT (D _s)= | 0.00 | FT |
| Height of Trench Above SHWT (D _u)= | 9.50 | FT |
| Average Ground Elevation= | 15.50 | FT |
| Seasonal High Water Table (SHWT)= | 2.65 | FT |
| Current Head (H ₂)= | 7.00 | FT |
| Volume to be Retained in Trench Under Formula (V _t)= | | Acre-in |
| Storage in Trench (S)= | 26.24 | FT ³ /FT |
| Width of Trench (W)= | 8.00 | FT |
| Required Length of Trench (L)= | 205.88 | FT |
| Safety Factor (SF)= | 2 | |
| Length of Trench Based on Formula (L _{formula})= | 411.75 | FT |
| Length of Trench Based on Excess Volume (L _{excess})= | 3.25 | FT |
| Actual Length of Trench to be Built on Plans (L)= | 415 | FT |



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Page 1

Rainfall Events Listing (selected events)

| Event# | Event Name | Storm Type | Curve | Mode | Duration (hours) | B/B | Depth (inches) | AMC |
|--------|------------|------------------|-------|---------|------------------|-----|----------------|-----|
| 1 | 5Y - 1H | FDOT 1-hr | | Default | 1.00 | 1 | 3.55 | 2 |
| 2 | 5Y - 24H | Type II FL 24-hr | | Default | 24.00 | 1 | 7.00 | 2 |
| 3 | 25Y - 72H | SFWMD 72-hr | | Default | 72.00 | 1 | 14.00 | 2 |
| 4 | 100Y - 72H | SFWMD 72-hr | | Default | 72.00 | 1 | 16.50 | 2 |

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FDOT 1-hr 5Y - 1H Rainfall=3.55"

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Page 2

Summary for Pond 2P: STORAGE

[42] Hint: Gap in defined storage above volume #1 at 12.50'

Inflow Area = 1.490 ac, 61.74% Impervious, Inflow Depth = 1.34" for 5Y - 1H event
 Inflow = 5.12 cfs @ 0.72 hrs, Volume= 0.166 af
 Outflow = 1.64 cfs @ 1.00 hrs, Volume= 0.166 af, Atten= 68%, Lag= 16.8 min
 Discarded = 1.64 cfs @ 1.00 hrs, Volume= 0.166 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 Peak Elev= 8.22' @ 1.00 hrs Surf.Area= 0.076 ac Storage= 0.119 af

Plug-Flow detention time= 67.9 min calculated for 0.166 af (100% of inflow)
 Center-of-Mass det. time= 68.5 min (114.2 - 45.7)

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|---|
| #1 | 3.00' | 0.208 af | 8.00'W x 415.00'L x 9.50'H EXFIL TRENCH 0.724 af Overall - 0.031 af Embedded = 0.693 af x 30.0% Voids |
| #2 | 8.50' | 0.030 af | 24.0" Round RCP_Round 24" Inside #1 L= 415.0' 0.031 af Overall - 0.2" Wall Thickness = 0.030 af |
| #3 | 15.00' | 0.138 af | PAVEMENT (Prismatic) Listed below (Recalc) -Impervious |
| #4 | 14.50' | 0.085 af | RETENTION (Conic) Listed below (Recalc) |
| | | 0.462 af | Total Available Storage |

| Elevation (feet) | Surf.Area (acres) | Inc.Store (acre-feet) | Cum.Store (acre-feet) |
|------------------|-------------------|-----------------------|-----------------------|
| 15.00 | 0.087 | 0.000 | 0.000 |
| 15.20 | 0.379 | 0.047 | 0.047 |
| 15.40 | 0.540 | 0.092 | 0.138 |

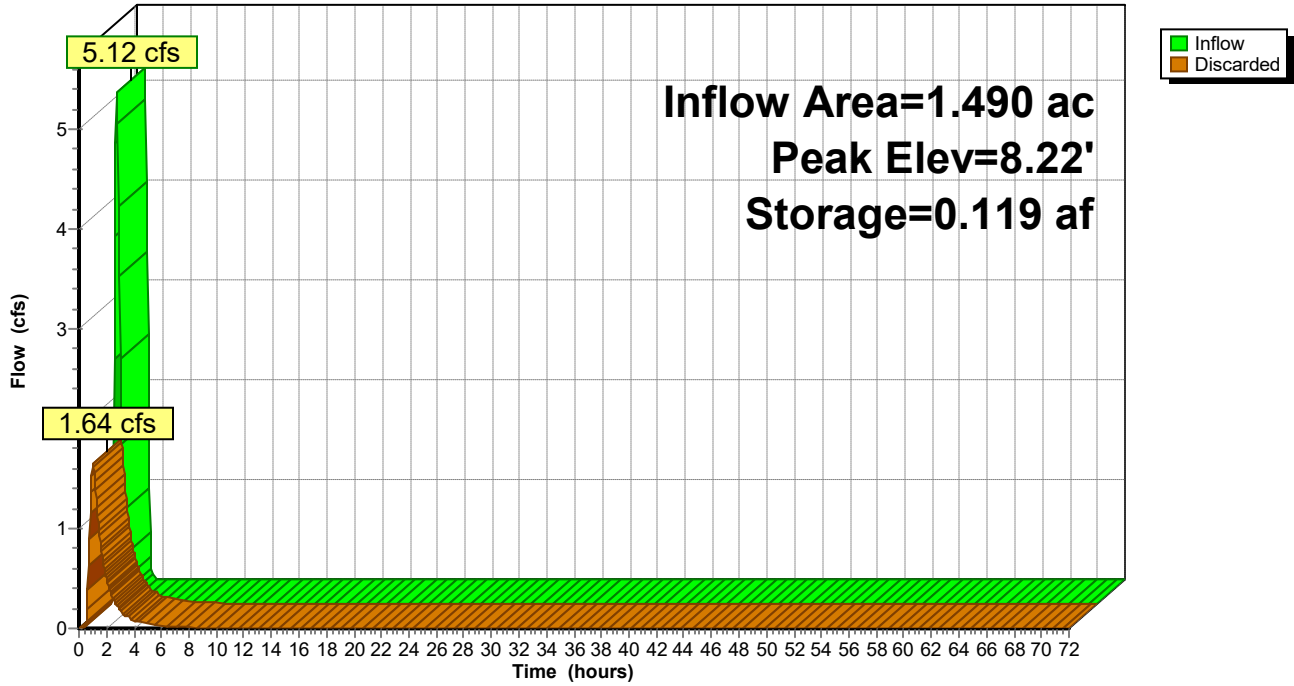
| Elevation (feet) | Surf.Area (acres) | Inc.Store (acre-feet) | Cum.Store (acre-feet) | Wet.Area (acres) |
|------------------|-------------------|-----------------------|-----------------------|------------------|
| 14.50 | 0.052 | 0.000 | 0.000 | 0.052 |
| 15.33 | 0.164 | 0.085 | 0.085 | 0.164 |

| Device | Routing | Invert | Outlet Devices |
|--------|-----------|--------|--|
| #1 | Discarded | 3.00' | 5.700 in/hr Exfiltration over Wetted area from 3.00' - 12.50' Conductivity to Groundwater Elevation = 2.65' Excluded Wetted area = 0.076 ac |

Discarded OutFlow Max=1.64 cfs @ 1.00 hrs HW=8.22' (Free Discharge)
 ↳1=Exfiltration (Controls 1.64 cfs)

Pond 2P: STORAGE

Hydrograph



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Type II FL 24-hr 5Y - 24H Rainfall=7.00"

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Page 4

Summary for Pond 2P: STORAGE

[42] Hint: Gap in defined storage above volume #1 at 12.50'

Inflow Area = 1.490 ac, 61.74% Impervious, Inflow Depth = 4.15" for 5Y - 24H event
 Inflow = 3.95 cfs @ 12.19 hrs, Volume= 0.515 af
 Outflow = 2.07 cfs @ 12.63 hrs, Volume= 0.515 af, Atten= 48%, Lag= 26.6 min
 Discarded = 2.07 cfs @ 12.63 hrs, Volume= 0.515 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 Peak Elev= 9.24' @ 12.63 hrs Surf.Area= 0.076 ac Storage= 0.150 af

Plug-Flow detention time= 68.4 min calculated for 0.515 af (100% of inflow)
 Center-of-Mass det. time= 68.8 min (907.3 - 838.5)

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|---|
| #1 | 3.00' | 0.208 af | 8.00'W x 415.00'L x 9.50'H EXFIL TRENCH 0.724 af Overall - 0.031 af Embedded = 0.693 af x 30.0% Voids |
| #2 | 8.50' | 0.030 af | 24.0" Round RCP_Round 24" Inside #1 L= 415.0' 0.031 af Overall - 0.2" Wall Thickness = 0.030 af |
| #3 | 15.00' | 0.138 af | PAVEMENT (Prismatic) Listed below (Recalc) -Impervious |
| #4 | 14.50' | 0.085 af | RETENTION (Conic) Listed below (Recalc) |
| | | 0.462 af | Total Available Storage |

| Elevation (feet) | Surf.Area (acres) | Inc.Store (acre-feet) | Cum.Store (acre-feet) |
|------------------|-------------------|-----------------------|-----------------------|
| 15.00 | 0.087 | 0.000 | 0.000 |
| 15.20 | 0.379 | 0.047 | 0.047 |
| 15.40 | 0.540 | 0.092 | 0.138 |

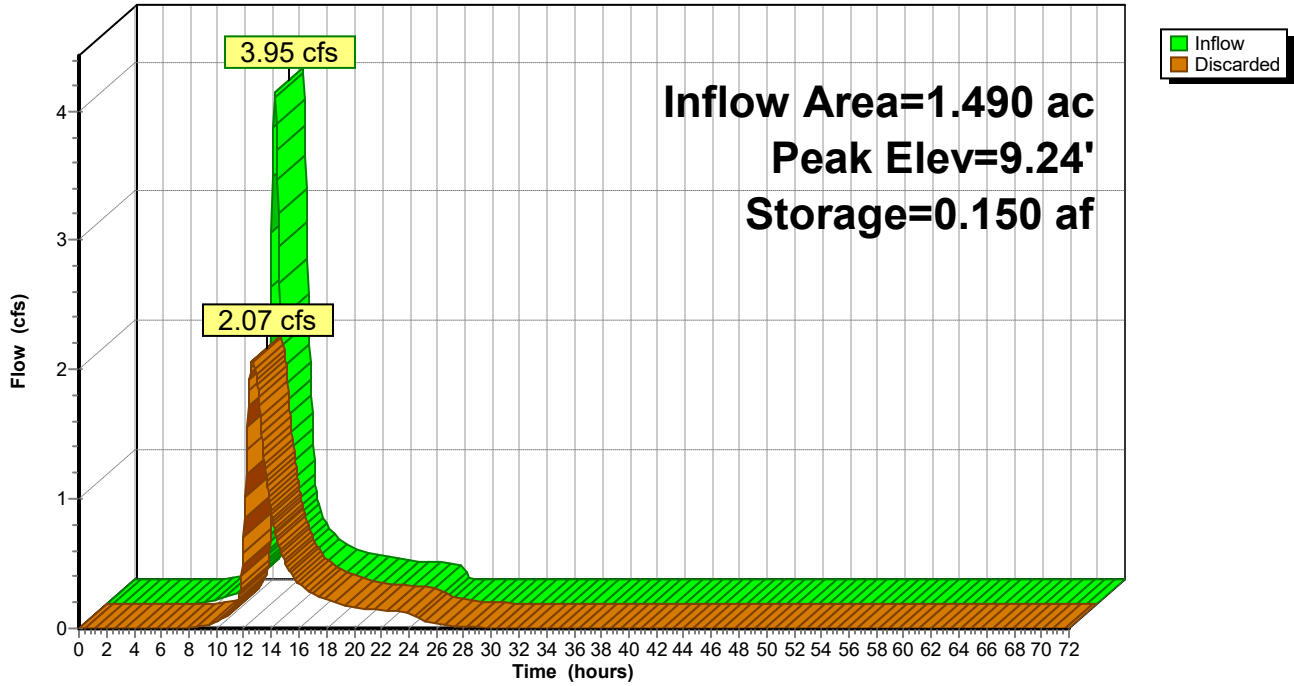
| Elevation (feet) | Surf.Area (acres) | Inc.Store (acre-feet) | Cum.Store (acre-feet) | Wet.Area (acres) |
|------------------|-------------------|-----------------------|-----------------------|------------------|
| 14.50 | 0.052 | 0.000 | 0.000 | 0.052 |
| 15.33 | 0.164 | 0.085 | 0.085 | 0.164 |

| Device | Routing | Invert | Outlet Devices |
|--------|-----------|--------|--|
| #1 | Discarded | 3.00' | 5.700 in/hr Exfiltration over Wetted area from 3.00' - 12.50' Conductivity to Groundwater Elevation = 2.65' Excluded Wetted area = 0.076 ac |

Discarded OutFlow Max=2.07 cfs @ 12.63 hrs HW=9.24' (Free Discharge)
 ↑1=Exfiltration (Controls 2.07 cfs)

Pond 2P: STORAGE

Hydrograph



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SFWMD 72-hr 25Y - 72H Rainfall=14.00"

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Page 6

Summary for Pond 2P: STORAGE

[42] Hint: Gap in defined storage above volume #1 at 12.50'

Inflow Area = 1.490 ac, 61.74% Impervious, Inflow Depth > 10.65" for 25Y - 72H event
 Inflow = 11.62 cfs @ 59.90 hrs, Volume= 1.323 af
 Outflow = 4.48 cfs @ 60.16 hrs, Volume= 1.301 af, Atten= 61%, Lag= 16.0 min
 Discarded = 4.48 cfs @ 60.16 hrs, Volume= 1.301 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 Peak Elev= 15.15' @ 60.16 hrs Surf.Area= 0.211 ac Storage= 0.326 af

Plug-Flow detention time= 67.7 min calculated for 1.301 af (98% of inflow)
 Center-of-Mass det. time= 53.0 min (3,461.5 - 3,408.5)

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|---|
| #1 | 3.00' | 0.208 af | 8.00"W x 415.00"L x 9.50"H EXFIL TRENCH 0.724 af Overall - 0.031 af Embedded = 0.693 af x 30.0% Voids |
| #2 | 8.50' | 0.030 af | 24.0" Round RCP_Round 24" Inside #1 L= 415.0' 0.031 af Overall - 0.2" Wall Thickness = 0.030 af |
| #3 | 15.00' | 0.138 af | PAVEMENT (Prismatic) Listed below (Recalc) -Impervious |
| #4 | 14.50' | 0.085 af | RETENTION (Conic) Listed below (Recalc) |
| | | 0.462 af | Total Available Storage |

| Elevation (feet) | Surf.Area (acres) | Inc.Store (acre-feet) | Cum.Store (acre-feet) |
|------------------|-------------------|-----------------------|-----------------------|
| 15.00 | 0.087 | 0.000 | 0.000 |
| 15.20 | 0.379 | 0.047 | 0.047 |
| 15.40 | 0.540 | 0.092 | 0.138 |

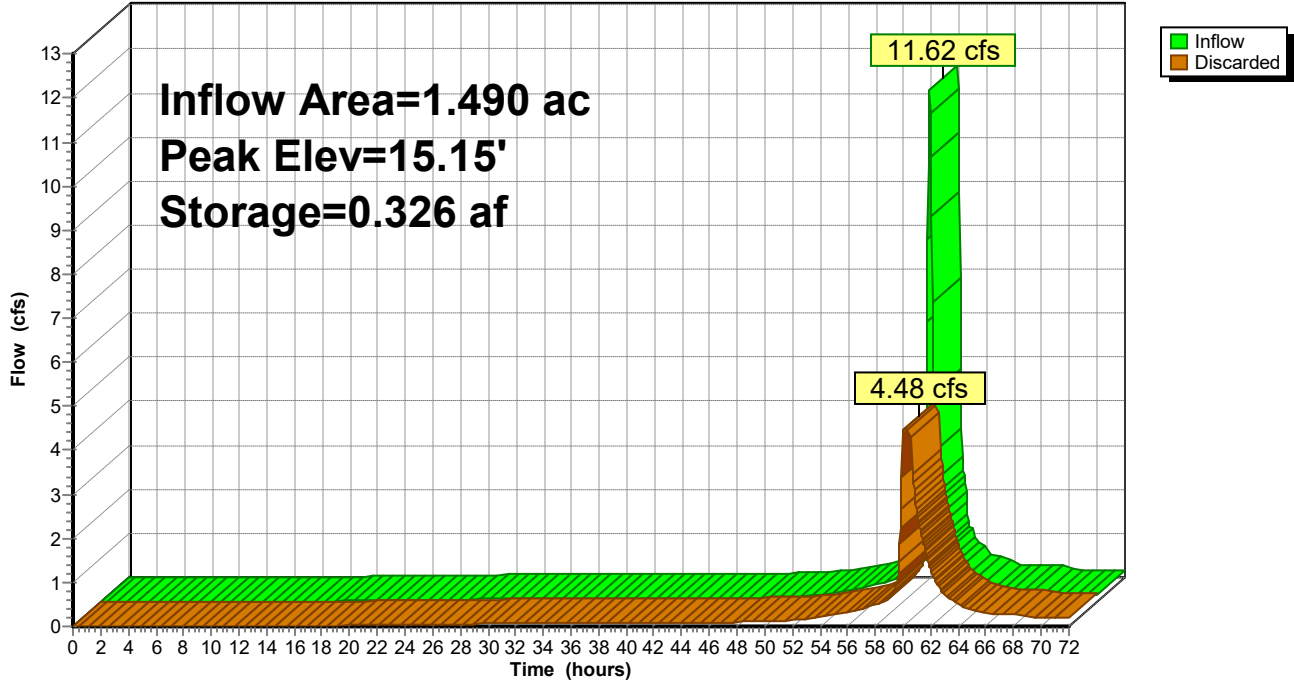
| Elevation (feet) | Surf.Area (acres) | Inc.Store (acre-feet) | Cum.Store (acre-feet) | Wet.Area (acres) |
|------------------|-------------------|-----------------------|-----------------------|------------------|
| 14.50 | 0.052 | 0.000 | 0.000 | 0.052 |
| 15.33 | 0.164 | 0.085 | 0.085 | 0.164 |

| Device | Routing | Invert | Outlet Devices |
|--------|-----------|--------|--|
| #1 | Discarded | 3.00' | 5.700 in/hr Exfiltration over Wetted area from 3.00' - 12.50' Conductivity to Groundwater Elevation = 2.65' Excluded Wetted area = 0.076 ac |

Discarded OutFlow Max=4.48 cfs @ 60.16 hrs HW=15.15' (Free Discharge)
 ↑1=Exfiltration (Controls 4.48 cfs)

Pond 2P: STORAGE

Hydrograph



TWIGGS POST

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SFWMD 72-hr 100Y - 72H Rainfall=16.50"

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Summary for Pond 2P: STORAGE

[42] Hint: Gap in defined storage above volume #1 at 12.50'

Inflow Area = 1.490 ac, 61.74% Impervious, Inflow Depth > 13.06" for 100Y - 72H event
 Inflow = 13.98 cfs @ 59.90 hrs, Volume= 1.622 af
 Outflow = 4.54 cfs @ 60.19 hrs, Volume= 1.597 af, Atten= 68%, Lag= 17.6 min
 Discarded = 4.54 cfs @ 60.19 hrs, Volume= 1.597 af

Routing by Stor-Ind method, Time Span= 0.00-72.00 hrs, dt= 0.05 hrs
 Peak Elev= 15.30' @ 60.19 hrs Surf.Area= 0.235 ac Storage= 0.405 af

Plug-Flow detention time= 67.8 min calculated for 1.596 af (98% of inflow)
 Center-of-Mass det. time= 53.7 min (3,433.9 - 3,380.2)

| Volume | Invert | Avail.Storage | Storage Description |
|--------|--------|---------------|---|
| #1 | 3.00' | 0.208 af | 8.00"W x 415.00"L x 9.50"H EXFIL TRENCH 0.724 af Overall - 0.031 af Embedded = 0.693 af x 30.0% Voids |
| #2 | 8.50' | 0.030 af | 24.0" Round RCP_Round 24" Inside #1 L= 415.0' 0.031 af Overall - 0.2" Wall Thickness = 0.030 af |
| #3 | 15.00' | 0.138 af | PAVEMENT (Prismatic) Listed below (Recalc) -Impervious |
| #4 | 14.50' | 0.085 af | RETENTION (Conic) Listed below (Recalc) |
| | | 0.462 af | Total Available Storage |

| Elevation (feet) | Surf.Area (acres) | Inc.Store (acre-feet) | Cum.Store (acre-feet) |
|------------------|-------------------|-----------------------|-----------------------|
| 15.00 | 0.087 | 0.000 | 0.000 |
| 15.20 | 0.379 | 0.047 | 0.047 |
| 15.40 | 0.540 | 0.092 | 0.138 |

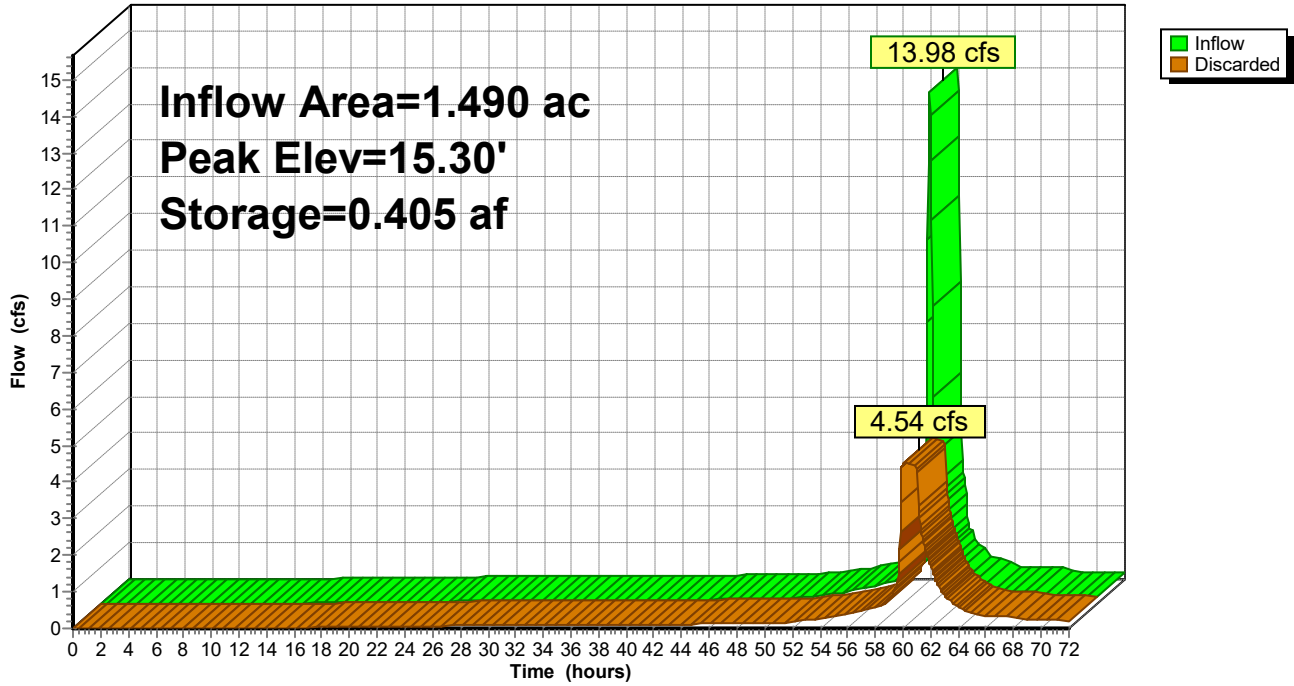
| Elevation (feet) | Surf.Area (acres) | Inc.Store (acre-feet) | Cum.Store (acre-feet) | Wet.Area (acres) |
|------------------|-------------------|-----------------------|-----------------------|------------------|
| 14.50 | 0.052 | 0.000 | 0.000 | 0.052 |
| 15.33 | 0.164 | 0.085 | 0.085 | 0.164 |

| Device | Routing | Invert | Outlet Devices |
|--------|-----------|--------|--|
| #1 | Discarded | 3.00' | 5.700 in/hr Exfiltration over Wetted area from 3.00' - 12.50' Conductivity to Groundwater Elevation = 2.65' Excluded Wetted area = 0.076 ac |

Discarded OutFlow Max=4.53 cfs @ 60.19 hrs HW=15.30' (Free Discharge)
 ↑1=Exfiltration (Controls 4.53 cfs)

Pond 2P: STORAGE

Hydrograph



TWIGGS POST

Prepared by Spectrum Designs

HydroCAD® 10.20-7a s/n 14025 © 2025 HydroCAD Software Solutions LLC

SFWMD 72-hr 100Y - 72H Rainfall=16.50"

Printed 3/19/2026

Stage-Area-Storage for Pond 2P: STORAGE

| Elevation (feet) | Wetted (acres) | Storage (acre-feet) | Elevation (feet) | Wetted (acres) | Storage (acre-feet) |
|---------------------|-------------------|------------------------|---------------------|-------------------|------------------------|
| 3.00 | 0.076 | 0.000 | 13.40 | 0.261 | 0.238 |
| 3.20 | 0.080 | 0.005 | 13.60 | 0.261 | 0.238 |
| 3.40 | 0.084 | 0.009 | 13.80 | 0.261 | 0.238 |
| 3.60 | 0.088 | 0.014 | 14.00 | 0.261 | 0.238 |
| 3.80 | 0.092 | 0.018 | 14.20 | 0.261 | 0.238 |
| 4.00 | 0.096 | 0.023 | 14.40 | 0.261 | 0.238 |
| 4.20 | 0.100 | 0.027 | 14.60 | 0.323 | 0.244 |
| 4.40 | 0.103 | 0.032 | 14.80 | 0.346 | 0.258 |
| 4.60 | 0.107 | 0.037 | 15.00 | 0.373 | 0.278 |
| 4.80 | 0.111 | 0.041 | 15.20 | 0.403 | 0.350 |
| 5.00 | 0.115 | 0.046 | 15.40 | 0.425 | 0.462 |
| 5.20 | 0.119 | 0.050 | | | |
| 5.40 | 0.123 | 0.055 | | | |
| 5.60 | 0.127 | 0.059 | | | |
| 5.80 | 0.131 | 0.064 | | | |
| 6.00 | 0.134 | 0.069 | | | |
| 6.20 | 0.138 | 0.073 | | | |
| 6.40 | 0.142 | 0.078 | | | |
| 6.60 | 0.146 | 0.082 | | | |
| 6.80 | 0.150 | 0.087 | | | |
| 7.00 | 0.154 | 0.091 | | | |
| 7.20 | 0.158 | 0.096 | | | |
| 7.40 | 0.162 | 0.101 | | | |
| 7.60 | 0.166 | 0.105 | | | |
| 7.80 | 0.169 | 0.110 | | | |
| 8.00 | 0.173 | 0.114 | | | |
| 8.20 | 0.177 | 0.119 | | | |
| 8.40 | 0.181 | 0.123 | | | |
| 8.60 | 0.185 | 0.128 | | | |
| 8.80 | 0.189 | 0.135 | | | |
| 9.00 | 0.193 | 0.141 | | | |
| 9.20 | 0.197 | 0.148 | | | |
| 9.40 | 0.201 | 0.155 | | | |
| 9.60 | 0.204 | 0.163 | | | |
| 9.80 | 0.208 | 0.170 | | | |
| 10.00 | 0.212 | 0.177 | | | |
| 10.20 | 0.216 | 0.183 | | | |
| 10.40 | 0.220 | 0.190 | | | |
| 10.60 | 0.224 | 0.194 | | | |
| 10.80 | 0.228 | 0.199 | | | |
| 11.00 | 0.232 | 0.204 | | | |
| 11.20 | 0.235 | 0.208 | | | |
| 11.40 | 0.239 | 0.213 | | | |
| 11.60 | 0.243 | 0.217 | | | |
| 11.80 | 0.247 | 0.222 | | | |
| 12.00 | 0.251 | 0.226 | | | |
| 12.20 | 0.255 | 0.231 | | | |
| 12.40 | 0.259 | 0.236 | | | |
| 12.60 | 0.261 | 0.238 | | | |
| 12.80 | 0.261 | 0.238 | | | |
| 13.00 | 0.261 | 0.238 | | | |
| 13.20 | 0.261 | 0.238 | | | |

TWIGGS POST

Prepared by Spectrum Designs

HydroCAD® 10.20-7a s/n 14025 © 2025 HydroCAD Software Solutions LLC

SFWMD 72-hr 100Y - 72H Rainfall=16.50"

Printed 3/19/2026

Events for Pond 2P: STORAGE

| Event | Inflow (cfs) | Discarded (cfs) | Elevation (feet) | Storage (acre-feet) |
|------------|-----------------|--------------------|---------------------|------------------------|
| 3Y - 1H | 4.23 | 1.30 | 7.34 | 0.099 |
| 5Y - 1H | 5.12 | 1.64 | 8.22 | 0.119 |
| 5Y - 24H | 3.95 | 2.07 | 9.24 | 0.150 |
| 25Y - 72H | 11.62 | 4.48 | 15.15 | 0.326 |
| 100Y - 72H | 13.98 | 4.54 | 15.30 | 0.405 |

GEOTECHNICAL REPORT

ATM Engineering

TESTING LABORATORIES - ENGINEERING INSPECTION SERVICES - DRILLING - ENVIRONMENTAL SERVICES.

Aubrey Engineering, LLC d/b/a ATM Engineering

1950 W 84th Street, Hialeah, FL 33014 Phone: 305-646-1888 Fax: 305-646-1887

April 25, 2025

Atlantic Engineering Services, Inc.
2826 Waters Edge Circle,
Greenacres, FL 33413

RE: **Subsurface Investigation for Proposed One-Story Building**
 Located at: 101 10th Street, Lake Park, FL

Dear Sir.:

Pursuant to your authorization, **ATM ENGINEERING** conducted a subsurface investigation at the above referenced project. The investigation was performed **April 24th, 2025**.

The purpose of the investigation was to develop preliminary information about the site and the subsurface conditions existing in the vicinity of the proposed construction.

To achieve the desired objective **two (2) standard penetration test borings and one (1) percolation test** were performed and the logs are enclosed in this report.

TEST METHOD:

The borings were conducted in accordance with the procedures outlined for the standard penetration test and split spoon sampling of soils by ASTM Method D-1586.

A two (2) foot long two (2) inches O.D. Split Spoon Sampler was driven into the ground by successive blows with 140 lbs. The hammer drops thirty (30) inches. The soil sampler was driven two (2) feet at a time, then extracted for visual examination and classification of the retained soil samples.

The number of blows required for a one (1) foot penetration of the sampler is designated as "N" (known as the standard penetration resistance value). The "N" value provides an indication of the relative density of non-cohesive soils and the consistency of cohesive soils.

Suitable corrections are applied to this number in order to include the effects of soil overburden pressure and other factors. A general evaluation of soils is made from the established correlation between "N" and the relative density or consistency of soils.

This dynamic method of soil testing has been widely accepted by foundation engineers and architects to conservatively evaluate the bearing capacity of soils. A continuous drilling and sampling procedure was used therefore, the samples were taken at intervals of two (2) feet or at every change in soil characteristics.

ATM Engineering

TESTING LABORATORIES - ENGINEERING INSPECTION SERVICES - DRILLING - ENVIRONMENTAL SERVICES.

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1950 W 84th Street, Hialeah, FL 33014 Phone: 305-646-1888 Fax: 305-646-1887

Page 2 of 3

April 25, 2025

Atlantic Engineering Services, Inc.

The types of foundation material encountered have been visually classified and are described in detail in the boring logs. The results of the field penetration tests are presented in the boring logs in numerical forms. The average ground water level at the site was found at **twelve (12) feet, two (2) inches** below the existing surface (see logs). Fluctuation in the observed ground water level should be expected due to seasonal climatic changes, rainfall variation, surface water run-off and other specific factors related to the site in question.

FOUNDATION RECOMMENDATIONS FOR THE PROPOSED ONE-STORY BUILDING:

Our recommendations are based on the information provided by the client as to the type of structure planned and on our subsurface investigation performed on the proposed site. Our recommendations are as follows:

1. Clear the entire building area plus 5'-0" outside the perimeter of construction and remove all top soil, and unsuitable subsurface material to the necessary depth. We anticipate an average clearance depth of approximately six (6) inches.
2. Compact cleared area to a minimum compaction of 98% of the optimum dry density as per AASHTO T-180. Verify densification procedures by taking an adequate number of field density compaction tests. The cleared area should be inspected prior to the commencement of the backfilling operation to ensure that all the unsuitable material has been removed.
3. Backfill building area, plus 5'-0" outside the perimeter of the structure to the required elevation with a clean mixture of sand, lime rock and lime sand fill (or approved fill material) in compacted layers not to exceed 12" in thickness. Compact each layer to a minimum of 98% of the optimum dry density as per AASHTO T180. Verify densification procedures by taking an adequate number of field density tests, especially in the footing area.
4. Excavate footing trenches to the required depth from the ground elevation.
5. Compact the bottom of the footing trench to a minimum compaction of 98% of the optimum dry density as per AASHTO T-180. Verify densification procedures by taking an adequate number of field density compaction tests.

DESIGN RECOMMENDATIONS:

The above foundation recommendation having been achieved and verified, we anticipate that the foundation and footings may be appropriately proportioned for a safe soil bearing capacity not to exceed **2500 pounds per square foot**. The use of spread footings and single column pads is suggested. A monolithic slab foundation may also be adopted.

ATM Engineering

TESTING LABORATORIES - ENGINEERING INSPECTION SERVICES - DRILLING - ENVIRONMENTAL SERVICES.

Aubrey Engineering, LLC d/b/a ATM Engineering

1950 W 84th Street, Hialeah, FL 33014 Phone: 305-646-1888 Fax: 305-646-1887

Page 3 of 3

April 25, 2025

Atlantic Engineering Services, Inc.

CONCLUSION:

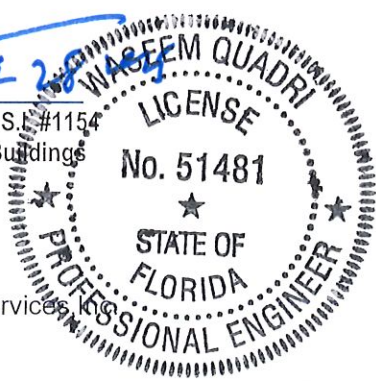
Regardless of the thoroughness of our Geotechnical exploration there is always a possibility that conditions on the subject property (site) may be different from those at the test locations. Therefore, should any subsoil condition different from those reported in our boring logs be encountered during construction, **ATM ENGINEERING**, should be notified immediately.

This report was prepared exclusively for the use of **Atlantic Engineering Services, Inc.** The conclusions provided by **ATM ENGINEERING** are based solely on the information presented in this report. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

We appreciate the opportunity to have been of service to your company. Please feel free to contact us if there are any questions or comments pertaining to this report.

Sincerely yours,

Waseem Quadri, P.E. #51481 & S.I. #1154
Special Inspector - Threshold Buildings
ATM Engineering



RS/jtlAtlanticEngineeringServices, Inc.

ATM Engineering

Testing Laboratories - Engineering Inspection Services - Chemist - Drilling - Environmental Services
 Aubrey Engineering, LLC d/b/a ATM Engineering
 1950 West 84th Street, Hialeah, Florida 33014/Phone: 305-646-1888/Fax: 305-646-1887

SOIL BORING LOG

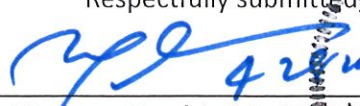
| | | | |
|-----------------|---|-------------------|-----------|
| CLIENT | Atlantic Engineering Services, Inc. | Order No | 25-0424 |
| ADDRESS | 2826 Waters Edge Circle, GreenAcres, FL 33413 | Report No. | 1 |
| PROJECT | Proposed One-Story Building | Boring No. | B-1 |
| ADDRESS | 101 10th Street, Lake Park, FL | Date | 4/24/2025 |
| LOCATION | As Marked on Aerial Photography | Driller | AG |
| | | Helper | MP |

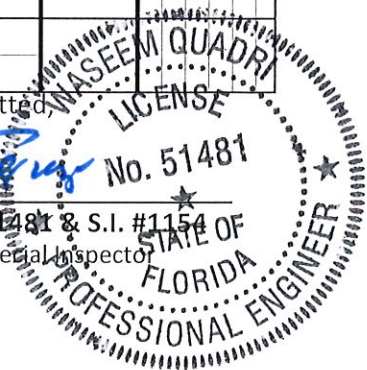
| Depth (feet) | DESCRIPTION OF MATERIALS | Sample No. | Hammer blows on sampler | | "N" | "N" Curve | | | | |
|----------------------------|---|------------|-------------------------|----|-----|-----------|----|----|----|----|
| | | | | | | | 10 | 20 | 30 | 40 |
| Soil Boring from 0' to 20' | | | | | | | | | | |
| 1 | 0'-0" to 0'-2" Top soil | 0'-2' | 2 | 3 | 6 | | | | | |
| 2 | | | 3 | 3 | | | | | | |
| 3 | | | 4 | 4 | | | | | | |
| 4 | 0'-2" to 5'-8" Backfill - light brown silica sand with shells | 2'-4' | 3 | 4 | 7 | | | | | |
| 5 | | | 4 | 6 | | | | | | |
| 6 | | | 5 | 5 | | | | | | |
| 7 | 5'-8" to 8'-0" Light brown silica sand | 6'-8' | 6 | 6 | 11 | | | | | |
| 8 | | | 7 | 6 | | | | | | |
| 9 | 8'-0" to 10'-0" Dark brown silica sand | 8'-10' | 8 | 7 | 14 | | | | | |
| 10 | | | 7 | 9 | | | | | | |
| 11 | | | 11 | 10 | | | | | | |
| 12 | 10'-0" to 20'-0" Brown medium silica sand | 10'-12' | 13 | 12 | 23 | | | | | |
| 13 | | | 15 | 14 | | | | | | |
| 14 | | | 13 | 12 | | | | | | |
| 15 | | | 12 | 11 | | | | | | |
| 16 | | | 13 | 16 | | | | | | |
| 17 | | | 12 | 18 | | | | | | |
| 18 | | | 13 | 19 | | | | | | |
| 19 | | | 15 | 20 | | | | | | |
| 20 | 18 | 22 | | | | | | | | |
| 21 | End Of Boring @ 20' | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |

Water Level: (▼) 12'-0"
 Sample Type: Split Spoon (SS)
 At Date: 4/24/2025


 Robert Shank, President

Respectfully submitted,


 Waseem Quadri, P.E. #51481 & S.I. #1154
 Threshold Building - Special Inspector



ATM Engineering

Testing Laboratories - Engineering Inspection Services - Chemist - Drilling - Environmental Services
 Aubrey Engineering, LLC d/b/a ATM Engineering
 1950 West 84th Street, Hialeah, Florida 33014/Phone: 305-646-1888/Fax: 305-646-1887

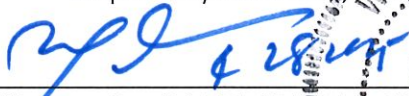
SOIL BORING LOG

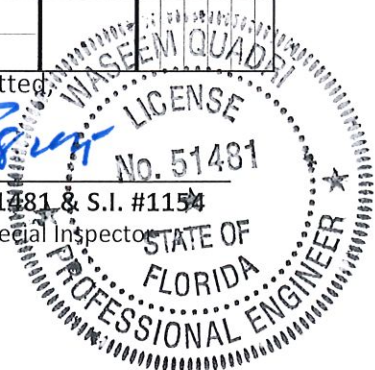
| | | | |
|-----------------|---|-------------------|-----------|
| CLIENT | Atlantic Engineering Services, Inc. | Order No | 25-0424 |
| ADDRESS | 2826 Waters Edge Circle, GreenAcres, FL 33413 | Report No. | 1 |
| PROJECT | Proposed One-Story Building | Boring No. | B-2 |
| ADDRESS | 101 10th Street, Lake Park, FL | Date | 4/24/2025 |
| LOCATION | As Marked on Aerial Photography | Driller | AG |
| | | Helper | MP |

| Depth (feet) | DESCRIPTION OF MATERIALS | Sample No. | Hammer blows on sampler | | "N" | "N" Curve | | | | |
|----------------------------|---|------------|-------------------------|----|-----|-----------|----|----|----|-----|
| | | | | | | 10 | 20 | 30 | 40 | 50+ |
| Soil Boring from 0' to 20' | | | | | | | | | | |
| 1 | 0'-0" to 0'-2" Top soil | 0'-2' | 1 | 2 | 5 | ● | | | | |
| 2 | 0'-2" to 2'-8" Backfill - brown sand with some shells | | 3 | 3 | | ● | | | | |
| 3 | | 2'-4' | 3 | 4 | 7 | ● | | | | |
| 4 | 3 | | 4 | ● | | | | | | |
| 5 | 2'-8" to 7'-0" Light brown silica sand | 4'-6' | 4 | 5 | 9 | ● | | | | |
| 6 | | | 4 | 4 | | ● | | | | |
| 7 | 6'-8' | 6'-8' | 6 | 7 | 15 | ● | | | | |
| 8 | | | 8 | 7 | | ● | | | | |
| 9 | 7'-0" to 12'-0" Dark brown silica sand | 8'-10' | 7 | 9 | 17 | ● | | | | |
| 10 | | | 8 | 10 | | ● | | | | |
| 11 | 10'-12' | 10'-12' | 11 | 10 | 20 | ● | | | | |
| 12 | | | 10 | 13 | | ● | | | | |
| 13 | 12'-14' | 12'-14' | 12 | 11 | 22 | ● | | | | |
| 14 | | | 11 | 13 | | ● | | | | |
| 15 | 14'-16' | 14'-16' | 15 | 16 | 28 | ● | | | | |
| 16 | | | 12 | 11 | | ● | | | | |
| 17 | 12'-0" to 20'-0" Brown medium silica sand | 16'-18' | 13 | 17 | 33 | ● | | | | |
| 18 | | | 16 | 15 | | ● | | | | |
| 19 | 18'-20' | 18'-20' | 12 | 16 | 34 | ● | | | | |
| 20 | | | 18 | 18 | | ● | | | | |
| 21 | End of Boring @ 20' | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |

Water Level: (▼) 12'-3"
 Sample Type: Split Spoon (SS)
 At Date: 4/24/2025


 Robert Shank, President

Respectfully submitted,

 Waseem Quadri, P.E. #51481 & S.I. #1154
 Threshold Building - Special Inspector



ATM Engineering

Testing Laboratories - Engineering Inspection Services - Chemist - Drilling - Environmental Services
 Aubrey Engineering, LLC d/b/a ATM Engineering
 1950 W 84th Street, Hialeah, Florida 33014 - Phone: 305-646-1888/Fax: 305-646-1887

PERCOLATION TEST USUAL OPEN HOLE TEST (CONSTANT HEAD)

| | | |
|------------------|--|-----------------|
| CLIENT: | Atlantic Engineering Services, Inc. | Date: 4/24/2025 |
| CLIENT ADDRESS: | 2826 Waters Edge Circle, GreenAcres, FL 33413 | TEST #: P-1 |
| PROJECT NAME: | Proposed One-Story Building | |
| PROJECT ADDRESS: | 101 10th Street, Lake Park, FL | |

| | | | |
|-----------------------------------|---------------------------------|------|------|
| LOCATION OF TEST | As Marked on Aerial Photography | | |
| DIAMETER OF HOLE (IN) | 6 | LAT: | LON: |
| DEPTH HOLE (FEET) | 15 | | |
| WATER TABLE BELOW GROUND SURFACE: | 12 ft | 3 in | |

| No. | Elapse Time (minute) | GPM |
|-----|----------------------|-----|
| 1 | 1 | 6.0 |
| 2 | 1 | 6.0 |
| 3 | 1 | 6.0 |
| 4 | 1 | 6.0 |
| 5 | 1 | 6.0 |
| 6 | 1 | 6.0 |
| 7 | 1 | 6.0 |
| 8 | 1 | 5.0 |
| 9 | 1 | 5.0 |
| 10 | 1 | 5.0 |

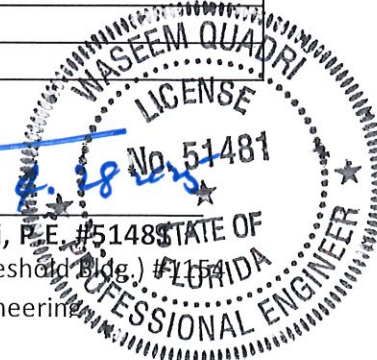
| | |
|--------------------|-----------|
| PERCOLATION RATE : | 5.7 |
| K-VALUE: | 7.337E-05 |

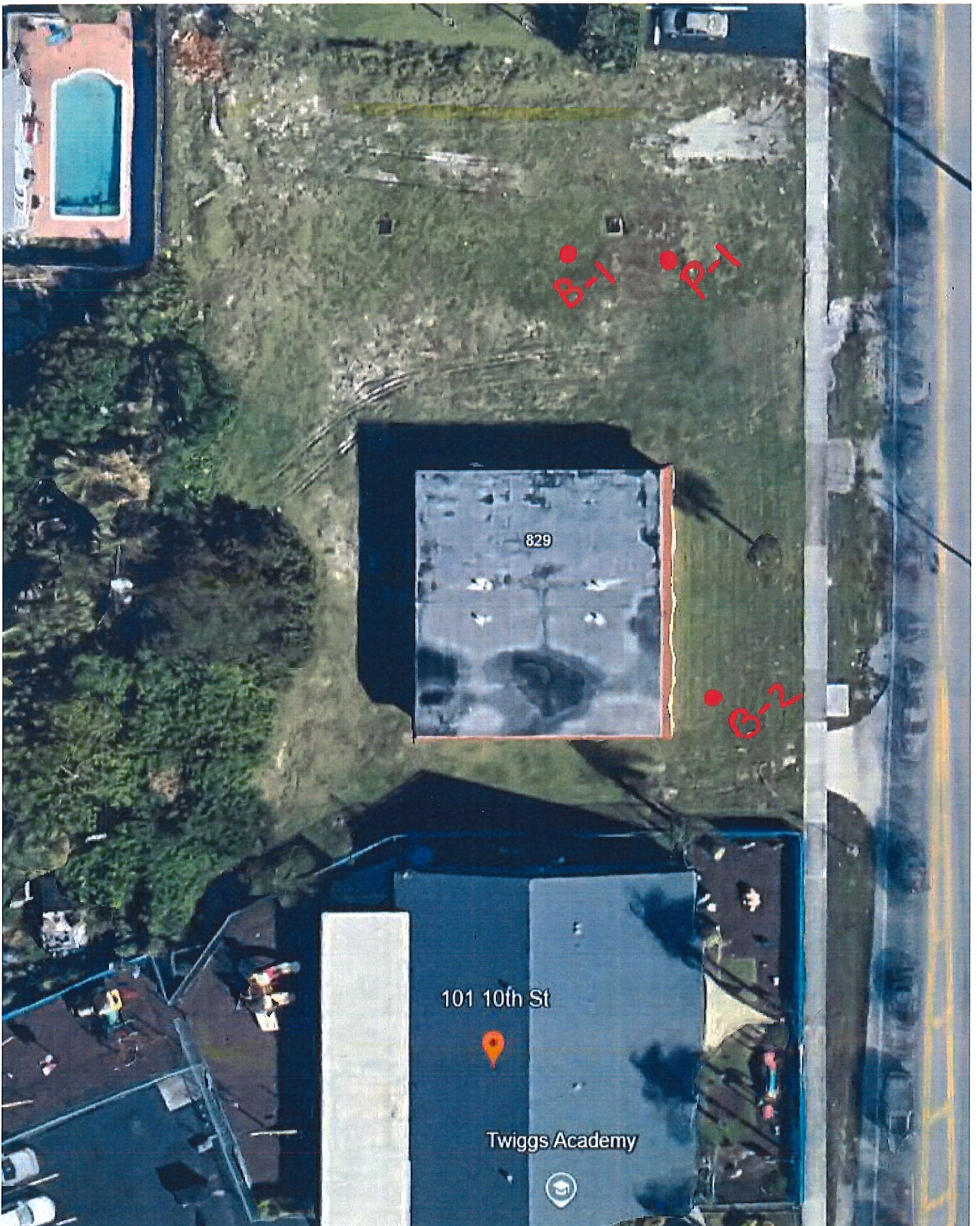
| SOIL DEPTH | SOIL DESCRIPTION |
|------------------|--|
| 0'-0" to 0'-2" | Top Soil |
| 0'-2" to 3'-0" | Backfill - light brown silica sand with shells |
| 3'-0" to 6'-6" | Light brown silica sand |
| 6'-6" to 10'-0" | Dark brown silica sand |
| 10'-0" to 15'-0" | Brown medium silica sand |

| | |
|-------------|-------|
| FIELD TECH. | AG/MP |
| TYPE BY: | jt |


Robert Shank, President


 Waseem Quadri, P.E. #51481
 Special Inspector (Threshold Eng.) #157481
 ATM Engineering





ATM Engineering

TESTING LABORATORIES - ENGINEERING INSPECTION SERVICES - DRILLING - ENVIRONMENTAL SERVICES.

Aubrey Engineering, LLC d/b/a ATM Engineering

1950 W 84th Street, Hialeah, FL 33014 Phone: 305-646-1888 Fax: 305-646-1887

April 25, 2025

Atlantic Engineering Services, Inc.
2826 Waters Edge Circle,
Greenacres, FL 33413

RE: **Subsurface Investigation for Proposed One-Story Building**
 Located at: 101 10th Street, Lake Park, FL

Dear Sir.:

Pursuant to your authorization, **ATM ENGINEERING** conducted a subsurface investigation at the above referenced project. The investigation was performed **April 24th, 2025**.

The purpose of the investigation was to develop preliminary information about the site and the subsurface conditions existing in the vicinity of the proposed construction.

To achieve the desired objective **two (2) standard penetration test borings and one (1) percolation test** were performed and the logs are enclosed in this report.

TEST METHOD:

The borings were conducted in accordance with the procedures outlined for the standard penetration test and split spoon sampling of soils by ASTM Method D-1586.

A two (2) foot long two (2) inches O.D. Split Spoon Sampler was driven into the ground by successive blows with 140 lbs. The hammer drops thirty (30) inches. The soil sampler was driven two (2) feet at a time, then extracted for visual examination and classification of the retained soil samples.

The number of blows required for a one (1) foot penetration of the sampler is designated as "N" (known as the standard penetration resistance value). The "N" value provides an indication of the relative density of non-cohesive soils and the consistency of cohesive soils.

Suitable corrections are applied to this number in order to include the effects of soil overburden pressure and other factors. A general evaluation of soils is made from the established correlation between "N" and the relative density or consistency of soils.

This dynamic method of soil testing has been widely accepted by foundation engineers and architects to conservatively evaluate the bearing capacity of soils. A continuous drilling and sampling procedure was used therefore, the samples were taken at intervals of two (2) feet or at every change in soil characteristics.

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Page 2 of 3

April 25, 2025

Atlantic Engineering Services, Inc.

The types of foundation material encountered have been visually classified and are described in detail in the boring logs. The results of the field penetration tests are presented in the boring logs in numerical forms. The average ground water level at the site was found at **twelve (12) feet, two (2) inches** below the existing surface (see logs). Fluctuation in the observed ground water level should be expected due to seasonal climatic changes, rainfall variation, surface water run-off and other specific factors related to the site in question.

FOUNDATION RECOMMENDATIONS FOR THE PROPOSED ONE-STORY BUILDING:

Our recommendations are based on the information provided by the client as to the type of structure planned and on our subsurface investigation performed on the proposed site. Our recommendations are as follows:

1. Clear the entire building area plus 5'-0" outside the perimeter of construction and remove all top soil, and unsuitable subsurface material to the necessary depth. We anticipate an average clearance depth of approximately six (6) inches.
2. Compact cleared area to a minimum compaction of 98% of the optimum dry density as per AASHTO T-180. Verify densification procedures by taking an adequate number of field density compaction tests. The cleared area should be inspected prior to the commencement of the backfilling operation to ensure that all the unsuitable material has been removed.
3. Backfill building area, plus 5'-0" outside the perimeter of the structure to the required elevation with a clean mixture of sand, lime rock and lime sand fill (or approved fill material) in compacted layers not to exceed 12" in thickness. Compact each layer to a minimum of 98% of the optimum dry density as per AASHTO T180. Verify densification procedures by taking an adequate number of field density tests, especially in the footing area.
4. Excavate footing trenches to the required depth from the ground elevation.
5. Compact the bottom of the footing trench to a minimum compaction of 98% of the optimum dry density as per AASHTO T-180. Verify densification procedures by taking an adequate number of field density compaction tests.

DESIGN RECOMMENDATIONS:

The above foundation recommendation having been achieved and verified, we anticipate that the foundation and footings may be appropriately proportioned for a safe soil bearing capacity not to exceed **2500 pounds per square foot**. The use of spread footings and single column pads is suggested. A monolithic slab foundation may also be adopted.

ATM Engineering

TESTING LABORATORIES - ENGINEERING INSPECTION SERVICES - DRILLING - ENVIRONMENTAL SERVICES.

Aubrey Engineering, LLC d/b/a ATM Engineering

1950 W 84th Street, Hialeah, FL 33014 Phone: 305-646-1888 Fax: 305-646-1887

Page 3 of 3

April 25, 2025

Atlantic Engineering Services, Inc.

CONCLUSION:

Regardless of the thoroughness of our Geotechnical exploration there is always a possibility that conditions on the subject property (site) may be different from those at the test locations. Therefore, should any subsoil condition different from those reported in our boring logs be encountered during construction, **ATM ENGINEERING**, should be notified immediately.

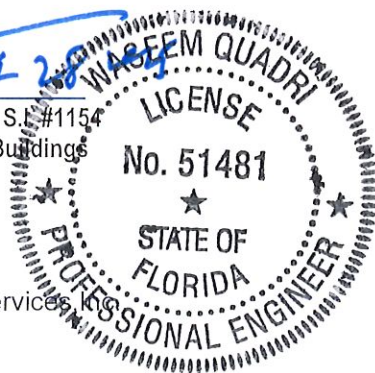
This report was prepared exclusively for the use of **Atlantic Engineering Services, Inc.** The conclusions provided by **ATM ENGINEERING** are based solely on the information presented in this report. As a mutual protection to clients, the public and ourselves, all reports are submitted as the confidential property of clients, and authorization for publication of statements, conclusions or extracts from or regarding our reports is reserved pending our written approval.

We appreciate the opportunity to have been of service to your company. Please feel free to contact us if there are any questions or comments pertaining to this report.

Sincerely yours,

Waseem Quadri
428

Waseem Quadri, P.E. #51481 & S.I. #1154
Special Inspector - Threshold Buildings
ATM Engineering



RS/jtlAtlanticEngineeringServices, Inc.

ATM Engineering

Testing Laboratories - Engineering Inspection Services - Chemist - Drilling - Environmental Services
 Aubrey Engineering, LLC d/b/a ATM Engineering
 1950 West 84th Street, Hialeah, Florida 33014/Phone: 305-646-1888/Fax: 305-646-1887

SOIL BORING LOG

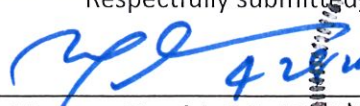
| | | | |
|-----------------|---|-------------------|-----------|
| CLIENT | Atlantic Engineering Services, Inc. | Order No | 25-0424 |
| ADDRESS | 2826 Waters Edge Circle, GreenAcres, FL 33413 | Report No. | 1 |
| PROJECT | Proposed One-Story Building | Boring No. | B-1 |
| ADDRESS | 101 10th Street, Lake Park, FL | Date | 4/24/2025 |
| LOCATION | As Marked on Aerial Photography | Driller | AG |
| | | Helper | MP |

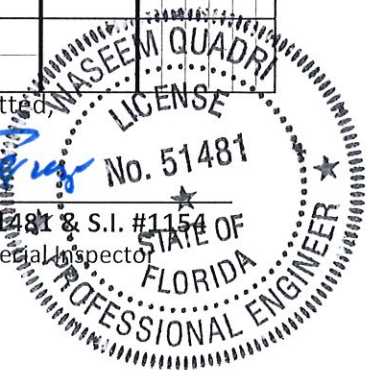
| Depth (feet) | DESCRIPTION OF MATERIALS | Sample No. | Hammer blows on sampler | | "N" | "N" Curve | | | | |
|----------------------------|---|------------|-------------------------|----|-----|-----------|----|----|----|----|
| | | | | | | | 10 | 20 | 30 | 40 |
| Soil Boring from 0' to 20' | | | | | | | | | | |
| 1 | 0'-0" to 0'-2" Top soil | 0'-2' | 2 | 3 | 6 | | | | | |
| 2 | | | 3 | 3 | | | | | | |
| 3 | | | 4 | 4 | | | | | | |
| 4 | 0'-2" to 5'-8" Backfill - light brown silica sand with shells | 2'-4' | 3 | 4 | 7 | | | | | |
| 5 | | | 4 | 6 | | | | | | |
| 6 | | | 5 | 5 | | | | | | |
| 7 | 5'-8" to 8'-0" Light brown silica sand | 6'-8' | 6 | 6 | 11 | | | | | |
| 8 | | | 7 | 6 | | | | | | |
| 9 | 8'-0" to 10'-0" Dark brown silica sand | 8'-10' | 8 | 7 | 14 | | | | | |
| 10 | | | 7 | 9 | | | | | | |
| 11 | | | 11 | 10 | | | | | | |
| 12 | 10'-0" to 20'-0" Brown medium silica sand | 10'-12' | 13 | 12 | 23 | | | | | |
| 13 | | | 15 | 14 | | | | | | |
| 14 | | | 13 | 12 | | | | | | |
| 15 | | | 12 | 11 | | | | | | |
| 16 | | | 13 | 16 | | | | | | |
| 17 | | | 12 | 18 | | | | | | |
| 18 | | | 13 | 19 | | | | | | |
| 19 | | | 15 | 20 | | | | | | |
| 20 | 18 | 22 | | | | | | | | |
| 21 | End Of Boring @ 20' | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |

Water Level: (▼) 12'-0"
 Sample Type: Split Spoon (SS)
 At Date: 4/24/2025


 Robert Shank, President

Respectfully submitted,


 Waseem Quadri, P.E. #51481 & S.I. #1154
 Threshold Building - Special Inspector



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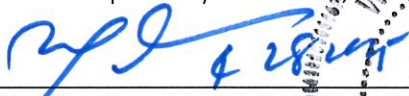
SOIL BORING LOG

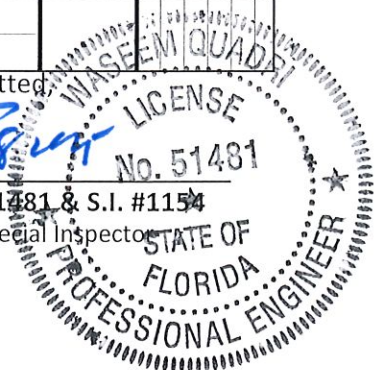
| | | | |
|-----------------|---|-------------------|-----------|
| CLIENT | Atlantic Engineering Services, Inc. | Order No | 25-0424 |
| ADDRESS | 2826 Waters Edge Circle, GreenAcres, FL 33413 | Report No. | 1 |
| PROJECT | Proposed One-Story Building | Boring No. | B-2 |
| ADDRESS | 101 10th Street, Lake Park, FL | Date | 4/24/2025 |
| LOCATION | As Marked on Aerial Photography | Driller | AG |
| | | Helper | MP |

| Depth (feet) | DESCRIPTION OF MATERIALS | Sample No. | Hammer blows on sampler | | "N" | "N" Curve | | | | |
|----------------------------|---|------------|-------------------------|----|-----|-----------|----|----|----|-----|
| | | | | | | 10 | 20 | 30 | 40 | 50+ |
| Soil Boring from 0' to 20' | | | | | | | | | | |
| 1 | 0'-0" to 0'-2" Top soil | 0'-2' | 1 | 2 | 5 | ● | | | | |
| 2 | 0'-2" to 2'-8" Backfill - brown sand with some shells | | 3 | 3 | | ● | | | | |
| 3 | | 2'-4' | 3 | 4 | 7 | ● | | | | |
| 4 | 3 | | 4 | ● | | | | | | |
| 5 | 2'-8" to 7'-0" Light brown silica sand | 4'-6' | 4 | 5 | 9 | ● | | | | |
| 6 | | | 4 | 4 | | ● | | | | |
| 7 | 6'-8' | 6'-8' | 6 | 7 | 15 | ● | | | | |
| 8 | | | 8 | 7 | | ● | | | | |
| 9 | 7'-0" to 12'-0" Dark brown silica sand | 8'-10' | 7 | 9 | 17 | ● | | | | |
| 10 | | | 8 | 10 | | ● | | | | |
| 11 | 10'-12' | 10'-12' | 11 | 10 | 20 | ● | | | | |
| 12 | | | 10 | 13 | | ● | | | | |
| 13 | 12'-14' | 12'-14' | 12 | 11 | 22 | ● | | | | |
| 14 | | | 11 | 13 | | ● | | | | |
| 15 | 14'-16' | 14'-16' | 15 | 16 | 28 | ● | | | | |
| 16 | | | 12 | 11 | | ● | | | | |
| 17 | 12'-0" to 20'-0" Brown medium silica sand | 16'-18' | 13 | 17 | 33 | ● | | | | |
| 18 | | | 16 | 15 | | ● | | | | |
| 19 | 18'-20' | 18'-20' | 12 | 16 | 34 | ● | | | | |
| 20 | | | 18 | 18 | | ● | | | | |
| 21 | End of Boring @ 20' | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |

Water Level: (▼) 12'-3"
 Sample Type: Split Spoon (SS)
 At Date: 4/24/2025


 Robert Shank, President

Respectfully submitted,

 Waseem Quadri, P.E. #51481 & S.I. #1154
 Threshold Building - Special Inspector



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PERCOLATION TEST USUAL OPEN HOLE TEST (CONSTANT HEAD)

| | | |
|------------------|--|-----------------|
| CLIENT: | Atlantic Engineering Services, Inc. | Date: 4/24/2025 |
| CLIENT ADDRESS: | 2826 Waters Edge Circle, GreenAcres, FL 33413 | TEST #: P-1 |
| PROJECT NAME: | Proposed One-Story Building | |
| PROJECT ADDRESS: | 101 10th Street, Lake Park, FL | |

| | | | |
|-----------------------------------|---------------------------------|------|------|
| LOCATION OF TEST | As Marked on Aerial Photography | | |
| DIAMETER OF HOLE (IN) | 6 | LAT: | LON: |
| DEPTH HOLE (FEET) | 15 | | |
| WATER TABLE BELOW GROUND SURFACE: | 12 ft | 3 in | |


| No. | Elapse Time (minute) | GPM |
|-----|----------------------|-----|
| 1 | 1 | 6.0 |
| 2 | 1 | 6.0 |
| 3 | 1 | 6.0 |
| 4 | 1 | 6.0 |
| 5 | 1 | 6.0 |
| 6 | 1 | 6.0 |
| 7 | 1 | 6.0 |
| 8 | 1 | 5.0 |
| 9 | 1 | 5.0 |
| 10 | 1 | 5.0 |

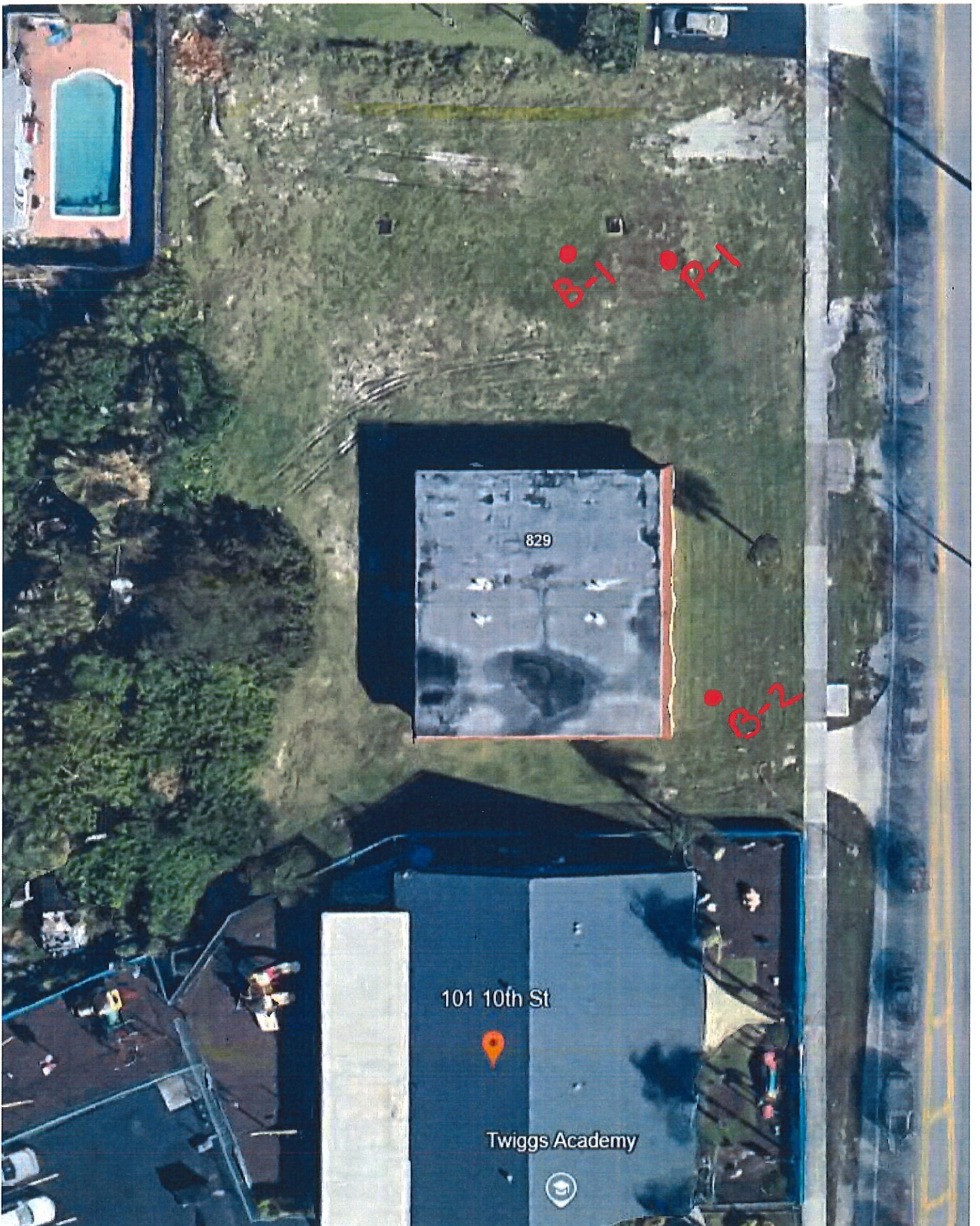
| | |
|--------------------|-----------|
| PERCOLATION RATE : | 5.7 |
| K-VALUE: | 7.337E-05 |

| SOIL DEPTH | SOIL DESCRIPTION |
|------------------|--|
| 0'-0" to 0'-2" | Top Soil |
| 0'-2" to 3'-0" | Backfill - light brown silica sand with shells |
| 3'-0" to 6'-6" | Light brown silica sand |
| 6'-6" to 10'-0" | Dark brown silica sand |
| 10'-0" to 15'-0" | Brown medium silica sand |

| | |
|-------------|-------|
| FIELD TECH. | AG/MP |
| TYPE BY: | jt |


Robert Shank, President



Waseem Quadri, P.E. #51481
 Special Inspector (Threshold Eng.) #51481
 ATM Engineering



Narrative/Justification Statement

Purpose of the Business

The purpose of *Twiggs Academy Preschool* is to provide a safe, nurturing, and developmentally appropriate early learning environment for children from infancy through four years old. The school is committed to supporting the whole child—socially, emotionally, physically, and cognitively—by offering high-quality care and structured learning experiences aligned with Florida’s Early Learning and VPK standards.

Twiggs Academy exists to partner with families in the critical early years of childhood, ensuring that every child receives the foundational skills, guidance, and support needed for long-term academic success and healthy development. Through research-based curriculum, individualized instruction, and intentional play, the preschool aims to foster curiosity, creativity, and a lifelong love of learning.

Impact on Children, Families, and the Community

1. Impact on Children

- **School Readiness:** Children gain early literacy, math, language, and social-emotional skills that prepare them for kindergarten and future academic success.
- **Developmental Growth:** Age-appropriate learning opportunities support fine and gross motor skills, cognitive development, problem-solving, and independence.
- **Safe & Supportive Environment:** A consistent, nurturing setting builds confidence, emotional security, and positive peer relationships.
- **Early Intervention & Support:** Staff can identify developmental needs early, helping children receive timely support and improving long-term outcomes.

2. Impact on Families

- **Reliable and High-Quality Childcare:** Families benefit from dependable early care from 6:30 a.m. to 5:30 p.m. (93 enrollment) and 7 a.m. to 6 p.m.(expansion school - 135 enrollment), supporting working parents and guardians.
- **Parent Partnership & Communication:** Regular updates, progress reports, and family involvement create a strong home-school connection.
- **Peace of Mind:** Parents feel confident that their children are in a safe, licensed, and enriching learning environment that meets Florida's childcare standards.

3. Impact on the Community

- **Strengthens Local Workforce:** By offering full-day childcare, Twiggs Academy helps parents maintain employment and stability.
- **Promotes Early Education Access:** Twiggs Academy increases availability of VPK services, supporting equitable school readiness for all children.
- **Supports Long-Term Community Outcomes:** High-quality early learning programs contribute to higher graduation rates, reduced remediation in schools, and overall healthier communities.

To minimize car traffic for parents at Twiggs Academy Preschool, an effective plan involves a combination of clearly defined traffic flow, staggered timing for pickup and drop off , designated staff assistance, designated parking for expanded school, and the active promotion of the new technology system. carpooling. The plan will be a collaborative effort between the school and parents.

1. Traffic Flow and Zone Management

- **Two-Way Traffic System:**

Access from Silver Beach will be controlled by an electric security gate, which will remain closed during peak traffic hours (7:00–10:00 AM and 4:00–7:00 PM). This system is designed to eliminate parent vehicles from entering or exiting during high-congestion periods on Silver Beach, thereby improving both safety and traffic flow. The approach is comparable to the traffic design used at *Oceana Coffee, but with more stringent controls and operational guidelines.*

- **Designated Drop-Off/Pick-Up (DO/PU) Zone:**

The school will include a clearly defined DO/PU area with marked parking spaces, high-visibility signage, and painted pavement indicators (e.g., yellow curbs reserved for immediate loading and unloading). The design accommodates multiple vehicles simultaneously, enabling parents to move efficiently in and out throughout the day. Due to the extended pick-up window—beginning at 12:30 PM for VPK students and spanning approximately five hours—There is NO queuing.

- **Parking Requirements within the DO/PU Zone:**

Parents will be required to park in the designated DO/PU spaces when dropping off or picking up their children. A separate DO/PU section will be allocated specifically for VPK students, who are developmentally able to walk safely with a parent to and from their vehicle.

- **Separated Pedestrian Pathways:**

To ensure the safety of children and families, the site plan includes distinct, dedicated pedestrian walkways leading directly to the school entrance. These pathways help eliminate pedestrian–vehicle conflict points.

- **Enhanced Signage:**

The traffic system will be supported by simple, highly visible signage and optional color-coded markers to clearly direct both drivers and pedestrians. Signage will include instructions for navigating the site as well as posted DO/PU rules.

2. Operational Procedures

Efficient traffic and safety management will depend on consistent staff oversight and clear expectations for families.

- **Staff Support:**

During periods of inclement weather and peak DO/PU times, trained staff members—equipped with high-visibility safety vests—will be stationed in the DO/PU zone to assist children safely entering or exiting vehicles.

- **Staggered Scheduling:**

Arrival and dismissal times will be strategically staggered, aligned with the school's operating hours (7:00 AM–6:00 PM), to distribute traffic more evenly and minimize congestion.

- **Efficient Loading and Unloading Expectations:**

Parents will be encouraged to have all student belongings (backpacks, diapers, wipes, clothing, and other supplies) fully prepared prior to entering the DO/PU area. This practice reduces the time each vehicle spends in the zone and maintains a continuous, efficient flow of traffic.

3. Parent Communication and Alternatives

A successful plan requires parental cooperation, which is achieved through clear communication and providing alternatives to single-family car use.

- **Communication Plan:** Twiggs Academy will develop a comprehensive communication plan detailing the new procedures, traffic map, and timing. Share this information via email, the school website, newsletters, and a dedicated parent portal.
- **Encourage Carpooling:** Twiggs Academy will actively promote and help facilitate carpooling among families who live in the same neighborhood. The school could provide resources or use carpool-matching apps to connect interested parents. Carpoolers could be given access to a priority or preferred lane to incentivize participation.

- **"Walk or Bike" Initiatives:** If feasible and safe for the surrounding area, encourage walking or biking by partnering with programs like [Safe Routes to School](#).
- The number of persons anticipated to be using or working on the property as a result of the Special Exception use will be Twelve teachers and one director
- The proposed preschool is designed and intended to operate as a **low-impact educational use** that is fully compatible with the surrounding business and offices. The following measures ensure minimal nuisance impact:
 - **Noise Impacts**

The preschool will generate minimal noise comparable to a standard professional office use. No outdoor instruction, outdoor play, or amplified sound will occur on the site. All educational activities will take place indoors within acoustically controlled classrooms. Drop-off and pick-up procedures will be managed efficiently to prevent excessive vehicle idling or congestion-related noise.
 - **Visual Impacts**

The exterior appearance of the building will maintain a professional and aesthetically appropriate design consistent with the character of the surrounding district. Required landscaping and buffering will be installed and maintained in accordance with applicable code requirements to minimize visual impacts on adjacent and nearby properties.
 - **Other Potential Nuisance Factors**

The preschool will operate strictly within approved hours and enrollment limits established in coordination with the Community Development Director. Traffic circulation and parking will be managed to prevent congestion, and all operations will comply with local ordinances related to safety, sanitation, and property maintenance. No activities will be conducted that create glare, vibration, odors, or other disturbances.
- Based on the above, the proposed use will not create noise, visual, or other nuisance conditions that would adversely affect neighboring properties. Twiggs Academy Preschool will function as a well-managed, orderly, and compatible use within the Town.

4. Key Technology Solutions

- **Mobile Apps for Parents and Staff:** These are the core of most solutions, allowing parents and staff to manage various tasks from their smartphones.
- **Contactless Check-in/out:** Parents will be able to use their own devices to check children in and out via GPS, a unique 4-digit PIN, or scanning a QR code at a physical kiosk, eliminating shared surfaces and paper sign-in sheets.
- **Real-Time Attendance Tracking:** The system automatically updates attendance records in real-time, allowing staff to instantly see who is on site and monitor room ratios to ensure compliance with regulations.

5. Safety and security measures

- **Authorized pick-up list:** Parents must provide a list of authorized adults who can pick up their child.
- **Photo ID:** Twiggs Academy will require a valid photo ID for individuals who are not on the authorized list.
- **Emergency contact information:** Emergency contact information will be kept up to date.
- **Security measures:** Twiggs Academy will have security measures like a password system or a secure entry system with key fobs or fingerprint readers.
- **Communication:** If an unauthorized person is dropping off or picking up a child, they will not be authorized to do so without prior notification or being added to the authorization record.

6. Ongoing Evaluation

- **Feedback and Adjustment:** Management of Twiggs Academy will regularly seek feedback from parents and staff to identify potential issues and fine-tune the procedures as needed.

- By implementing this structured and well-communicated plan, Twiggs Academy Preschool can significantly reduce traffic congestion, improve safety, and create a less stressful experience for everyone involved.

Frog Street Curriculum at Twiggs Academy Preschool

At Twiggs Academy Preschool, we use the **Frog Street Early Childhood Curriculum**, a nationally recognized, research-based program designed to support young children's growth in every area of development—from infancy through Pre-K/VPK. Frog Street provides a joyful, structured, and purposeful learning experience that aligns with Florida Early Learning and VPK Standards.

Why Frog Street?

Frog Street was created by early childhood experts who specialize in brain development, literacy, early math, and social-emotional learning. The curriculum intentionally blends academic readiness with nurturing relationships, play-based exploration, and routines that build confidence and independence.

Key Features of Frog Street at Twiggs Academy

1. Comprehensive Developmental Learning

Frog Street supports **all domains of early learning**, including:

- Language & literacy
- Early math & problem-solving
- Science inquiry
- Fine & gross motor development
- Social–emotional development
- Physical health & safety
- Cognitive and brain-based learning skills

Each classroom—infants, toddlers, 2's, 3's, and VPK—uses age-appropriate materials, lessons, and routines aligned with developmental milestones.

2. Social–Emotional Learning Through Conscious Discipline

A core component of Frog Street is **Conscious Discipline**, a positive behavior-guidance system that helps children:

- Build self-regulation skills
- Understand emotions
- Develop empathy
- Solve conflicts in healthy ways

Teachers model calm behavior, use consistent routines, and teach children strategies for expressing feelings and building friendships.

3. Language-Rich, Literacy-Rich Environment

Frog Street integrates literacy throughout the day with:

- Daily read-alouds
- Vocabulary-rich conversations
- Alphabet and phonological awareness activities
- Storytelling, music, and rhymes

These experiences help build strong early language skills essential for kindergarten readiness.

4. Structured Daily Learning Through Play

Hands-on, play-based learning is central to Frog Street. Children rotate through engaging learning centers that may include:

- Blocks
- Dramatic play
- Science and discovery
- Sensory tables
- Writing and art centers
- Manipulatives and puzzles

Teachers guide exploration, introduce new concepts, and support children's individual learning styles.

5. Strong Alignment With Florida Standards

Frog Street meets or exceeds:

- **Florida Early Learning and Developmental Standards Birth–Five**
- **Florida VPK Standards**
- Literacy and math readiness skills required for kindergarten entry

The curriculum includes ongoing assessment tools that help teachers track progress and tailor instruction for each child.

6. Family Engagement

Frog Street provides:

- Monthly theme guides
- At-home activity suggestions

- Family letters and resources
- Progress updates

Twiggs Academy uses these tools to ensure parents are active partners in their child's learning journey.

Our Commitment at Twiggs Academy

By using Frog Street, Twiggs Academy ensures:

- Consistent, high-quality instruction across all age groups
- A nurturing environment based on emotional safety and positive discipline
- Developmentally appropriate activities that prepare children academically, socially, and emotionally for kindergarten success

Frog Street helps Twiggs Academy create a joyful classroom community where children feel safe, loved, and excited to learn each day.

APPLE Accreditation for Twiggs Academy Preschool

Twiggs Academy Preschool is proud to have earned **A.P.P.L.E. (Accredited Professional Preschool Learning Environment) Accreditation**, a distinguished recognition awarded by the **Florida Association for Child Care Management (FACCM)**. This accreditation demonstrates that our preschool meets or exceeds high standards of quality in early childhood education.

APPLE Accreditation is one of Florida's most respected accreditations for early learning programs. To achieve this status, Twiggs Academy underwent a comprehensive evaluation process that assessed multiple areas of program excellence, including:

- **Health and Safety Standards:** Ensuring children learn in a safe, well-maintained, and developmentally appropriate environment.
- **Teacher Qualifications and Professional Development:** Demonstrating that our educators are trained, supported, and continually improving in early childhood best practices.
- **Curriculum and Learning Environment:** Providing a rich, developmentally appropriate curriculum that supports cognitive, physical, social–emotional, and language development.
- **Family and Community Engagement:** Maintaining strong communication with families and building collaborative relationships that support children's learning.
- **Program Administration and Leadership:** Upholding strong operational policies, ethical practices, and effective management.

By earning APPLE Accreditation, Twiggs Academy Preschool shows its commitment to delivering **high-quality early education**, maintaining accountability, and creating a nurturing environment where infants through VPK students can grow, explore, and thrive.

This accreditation reflects our dedication to excellence and assures families that Twiggs Academy meets rigorous standards that go above and beyond Florida's minimum licensing requirements.

Twiggs Academy Preschool

Daily Operations Schedule (6:30 AM – 5:30 PM)(7 AM- 6PM expansion)**

Overview

Twiggs Academy Preschool operates Monday through Friday from **6:30 AM to 5:30 PM (7 AM- 6 PM expansion)**, serving children from **infants through 4 years old (VPK)**. The daily schedule supports developmental needs, safety, routine, exploration, and nurturing care across all age groups.

Daily Operations

7AM – 8:00 AM | Arrival & Early Morning Care

- School opens; staff greet children and families.
 - Health and wellness checks conducted during drop-off.
 - Children placed in mixed-age early arrival classrooms.
 - Quiet choice activities: books, manipulatives, soft music, sensory play (age-appropriate).
 - Teachers review individual infant schedules and needs.
-

8:00 AM – 8:30 AM | Classroom Transition & Breakfast

- Children transition to their assigned age-level classrooms.
 - Breakfast is served (infants fed on individual feeding schedules).
 - Handwashing routines before and after meals.
 - Daily goals and activities are reviewed with the children.
-

8:30 AM – 9:00 AM | Morning Circle Time

Age-adjusted activities may include:

- Songs, fingerplays, and movement
- Weather and calendar
- Introduction to daily theme or learning topic
- Language-building activities

Infants participate in floor time, language interactions, and tummy time instead of structured circle time.

9:00 AM – 10:30 AM | Learning Centers & Structured Curriculum

Infants: developmental play, sensory exploration, bonding activities

Toddlers: centers such as dramatic play, blocks, art, sensory bins, music

Preschool/VPK:

- Literacy and language centers
- Math and problem-solving activities
- Science and discovery time

- Fine motor activities
Teachers rotate small groups and conduct individualized instruction or VPK-required lessons.
-

10:30 AM – 11:30 AM | Outdoor Play / Gross Motor Development

- Outdoor playground time (weather permitting) or indoor gross-motor substitute.
 - Activities: running, climbing, ball play, trikes, nature exploration.
 - Infants may enjoy stroller walks, tummy time on outdoor mats, or shaded fresh-air time.
 - Hydration breaks provided.
-

11:30 AM – 12:15 PM | Lunch

- Catered or brought-from-home meals served (depending on center policy).
 - Teachers model family-style dining for older groups.
 - Infants fed according to schedule (bottles, solids).
 - Handwashing and diaper checks/potty routines.
-

12:15 PM – 2:30 PM | Rest & Nap Time

- Lights lowered, quiet music or soft sound machine.
- All children rest; infants follow their individualized routines.
- Teachers maintain required visual checks every 15 minutes for napping children.

- Quiet activities available for early wakers (books, puzzles, table toys).
-

2:30 PM – 3:00 PM | Afternoon Snack

- Healthy snacks provided.
 - sanitation procedures followed.
 - Infants fed on demand or according to schedule.
-

3:00 PM – 4:00 PM | Afternoon Learning & Enrichment

Activities vary by age group:

- Art and creative expression
- Music and movement
- STEM centers
- Outdoor play rotation
- VPK skill reinforcement
- Social–emotional learning activities

Infants enjoy sensory time, social interaction, and developmental floor play.

4:00 PM – 6 PM | End-of-Day Care & Pick-Up

- Mixed-age classrooms combine as enrollment decreases.

- Quiet play activities: blocks, manipulatives, dramatic play, reading corner.
 - Teachers conduct final diaper changes and restroom reminders.
 - Daily communication shared with parents (behavior notes, meals, naps, incidents, achievements).
 - The center will close promptly at 6 PM.
-

Additional Operational Notes

- **Diapering & Potty Training:** Every 2 hours or as needed; ongoing potty-training support for 2–3-year-olds.
- **Sanitation:** Toys sanitized throughout the day; classrooms cleaned during nap time and after closing.
- **Inclement Weather:** Indoor gross motor activities provided in multipurpose room.
- **Infant Care:** Feedings, diapering, and naps follow individual schedules communicated by the family.
- **Safety & Compliance:** All staff maintain ratios and supervision at all times, following state licensing guidelines.

Major Florida Child Care Licensing Requirements

1. Licensing Authority

- Child care centers are typically licensed by the **Florida Department of Children & Families (DCF)**.

2. Staff Screening & Background Checks

- All child care personnel must undergo **level-2 background screening**, which includes criminal history checks, employment history, and checks of registries (sexual predator/offender, abuse/neglect) per Florida Statute.
- Fingerprint submission is required.

3. Staff Training & Qualifications

- New child care personnel must start training within **90 days of employment** and must complete a 40-hour introductory course within one year.
- The introductory course must cover: state rules, health/safety/nutrition, identifying/reporting child abuse, child development (typical and atypical), observation techniques, and working with early literacy, among other topics.
- Annual continuing education is required.

- There is also a training requirement regarding serving children with disabilities (within 5 years of employment).
- For credentialing: a director must have a **child care professional credential** or a **Child Development Associate (CDA)**, or an equivalent credential.

4. Staff-to-Child Ratios

Under Florida Statutes, the minimum required ratios are:

- **Birth – 1 year:** 1 staff per 4 children
- **1 – under 2 years:** 1 staff per 6 children
- **2 – under 3 years:** 1 staff per 11 children
- **3 – under 4 years:** 1 staff per 15 children
- **4 – under 5 years:** 1 staff per 20 children
- For children older than 5, different ratios apply, but not necessarily relevant for a preschool (unless you also serve school-age).

5. preschool Requirements (Physical Space)

- There are minimum standards for **indoor space per child** and **outdoor play area**.
- According to the statute: if the preschool was newly licensed (after Oct 1, 1992), there must be at least **35 sq ft of usable indoor floor space per child**, plus **45 sq ft of usable outdoor play area per child** for the children using that space.
- The rules also cover building conditions, napping space, bathroom facilities, food-prep areas, equipment, and more.
-

6. Health, Safety & Sanitation

- Licensing standards must address health, sanitation, safety, and adequate physical surroundings.
- Facilities must comply with fire safety rules (State Fire Marshal) for child-care facilities.

- For nap times, there are requirements about supervision, nap space, etc., laid out in rule (65C-22).

7. Licensing Application

- To apply for or renew a license, Twiggs Academy must use the **DCF form CF-FSP 5017**.
- The application must include: background screening clearance, an approved fire inspection, and other documentation.
- Renewal: license renewal applications must be submitted **at least 45 days before** expiration.

8. Capacity & Director Requirements

- The statute requires a **credentialed director** for a licensed preschool.
- There are also minimum age and moral-character requirements for child care personnel.

9. Inspections & Ongoing Compliance

- DCF (or the local licensing agency) is responsible for **inspections** to ensure compliance with licensing standards.
- They monitor ongoing compliance with staff ratios, health and safety, training, and preschool standards.

2. Personnel / Staff Requirements

- **Background Checks:** All child-care personnel must undergo **Level-2 screening** (criminal history, employment history, sexual predator/offender registry, child abuse registry).
- **Fingerprinting** required consistent with Florida law.

- **Minimum Age:** The preschool operator must be at least 21; employees under 16 must be under direct supervision.
 - **Introductory Training:** All new personnel must complete a **40-hour child-care training course**, covering:
 - Florida child-care rules/regulations
 - Health, safety, nutrition
 - Child abuse / neglect identification & reporting
 - Child development (typical/atypical)
 - Observational tools / developmental checklists
 - Early literacy, language development
 - Working with children with disabilities (e.g., autism, Down syndrome)
 - **Ongoing Training:** Annual or in-service training required (statute mandates in-service).
 - **Special Disabilities Training:** Personnel must complete training about serving children with disabilities within 5 years of employment.
 - **Credentials:** For every 20 children, at least one staff must hold a:
 - Child Development Associate (CDA) credential, **or**
 - Child Care Professional Credential, **or**
 - Equivalent/greater credential.
-

3. Staff-to-Child Ratios

As required by Florida Statute 402.305:

- Birth – 1 year: 1 staff : 4 children
 - 1 – under 2: 1 : 6
 - 2 – under 3: 1 : 11
 - 3 – under 4: 1 : 15
 - 4 – under 5: 1 : 20
 - When multiple age groups are mixed, the ratio is based on the group with **the highest number of children** (oldest group ratio applies).
-

4. preschool / Physical Environment

- **Indoor Space:** Must meet minimum standards for usable indoor floor space.
 - **Outdoor Play Area:** Must have adequate, usable outdoor play space per child.
 - **Napping Space:** Dedicated space for naps that meets safety standards.
Bathrooms: Must have sufficient bathroom facilities suitable for children.
 - **Food Preparation Area:** If providing meals/snacks, must meet sanitation and food prep requirements.
 - **Equipment:** Indoor and outdoor equipment must be safe, maintained, age-appropriate.
 - **Fire / Safety Compliance:** Must pass fire inspection before licensing.
-

5. Health, Sanitation & Safety

- Twiggs Academy will follow health-related requirements (immunizations, illness policies, first-aid).
- Sanitation: Toys, surfaces, restrooms, food areas must be regularly cleaned.
- Supervision: Adequate supervision must be maintained when children arrive, depart, and during all activities.

- Reporting & Documentation: Must maintain health, accident, incident records, and report required issues.
-

6. Food & Nutrition

- Twiggs Academy will provide nutritious meals and snacks if the preschool serves food.
- Ensure proper handwashing before/after meals.
- If using outside food providers or cooking on-site, maintain food safety standards consistent with the local health department.

7. Record Keeping- Twiggs Academy will-

- Maintain **attendance records** for each child.
- Maintain **personnel records**, including training certificates, background checks, credentials.
- Keep **health records** for each child: immunizations, health check-ups, incident reports.
- Maintain **incident / accident reports** with appropriate documentation.
- Licensing documents, inspection reports, and licensing certificate should be posted or readily available.

Playground Requirements for Twiggs Academy Preschool

At Twiggs Academy Preschool, ensuring a safe, engaging, and developmentally appropriate outdoor play environment is a top priority. To comply with Florida's licensing regulations and best practices, we follow these playground requirements:

1. Minimum Outdoor Play Space

- According to Florida Statutes, each child (1 year of age and older) must have a **minimum of 45 square feet** of usable outdoor play area per child.
- The outdoor play area should accommodate at least **half (½) of our licensed capacity** at any one time.
- For infants (under 1 year), the standard of 45 sq ft per child doesn't apply, but we must provide **appropriate outdoor infant play equipment** instead.

2. Surface and Drainage

- The ground surface must be **adequately drained** to prevent standing water.
- The surfacing under and around play equipment should be safe and provide **fall protection** (e.g., resilient material or properly maintained loose-fill surfaces).

3. Emergency and Health Preparedness

- At Twiggs Academy, at least one staff member trained in **pediatric CPR** must be on-site whenever children are present.

- The outdoor play area must follow

4. Program Planning

- Twiggs Academy will maintain a **written plan** for daily activities that includes both active and quiet play, tailored to the age of the children.
- Outdoor play is integrated into our schedule to support children's physical development, social interaction, and exploration.

5. Local Considerations

- Twiggs Academy will also comply with **local (Palm Beach County) licensing** or health department rules. For example, county regulations require that the outdoor play area be free of litter, hazards, and provide shade.
- If there are any site-specific constraints (e.g., limited space, urban environment), Twiggs Academy will work with licensing authorities to ensure compliance or make required substitutions (e.g., additional indoor play space if outdoor space is limited).

Why These Requirements Matter for Twiggs Academy-

- **Safety:** Proper fencing, surfacing, and supervision reduce risk of injury.
- **Development:** A well-designed outdoor area supports physical, social, and emotional growth.
- **Regulatory Compliance:** Meeting state and county licensing standards is essential for legal operation and for maintaining our license.
- **Well-being:** Daily outdoor play helps children get fresh air, engage in active play, and develop healthy habits.

a. Compliance with Applicable Codes and Regulations

The proposed development will fully comply with all applicable provisions of the Code, including this chapter, Subpart B land development regulations, parking requirements, and landscaping standards. All site plans have been prepared in accordance with current zoning, engineering, and planning requirements and will be implemented as approved.

b. Outdoor Instruction and Recreational Activities

Twiggs Academy acknowledges and agrees that no outdoor instruction will be conducted on the site. All educational and enrichment activities will occur indoors in compliance with approved use conditions.

c. Enrollment Limitations

Enrollment capacity will be 135 children. The preschool will not exceed a limit mutually agreed upon by the property owner and the Community Development Director. This enrollment cap will be established to ensure minimal traffic congestion and to prevent adverse impacts on adjacent and nearby properties, with particular consideration given to properties located within 300 feet of the site.

d. Compliance with Educational Laws and Regulations

The preschool will operate in full compliance with all applicable local, state, and federal laws and regulations governing educational facilities, including licensing requirements, safety standards, and operational regulations.

e. Neighborhood Notification and Opportunity for Comment

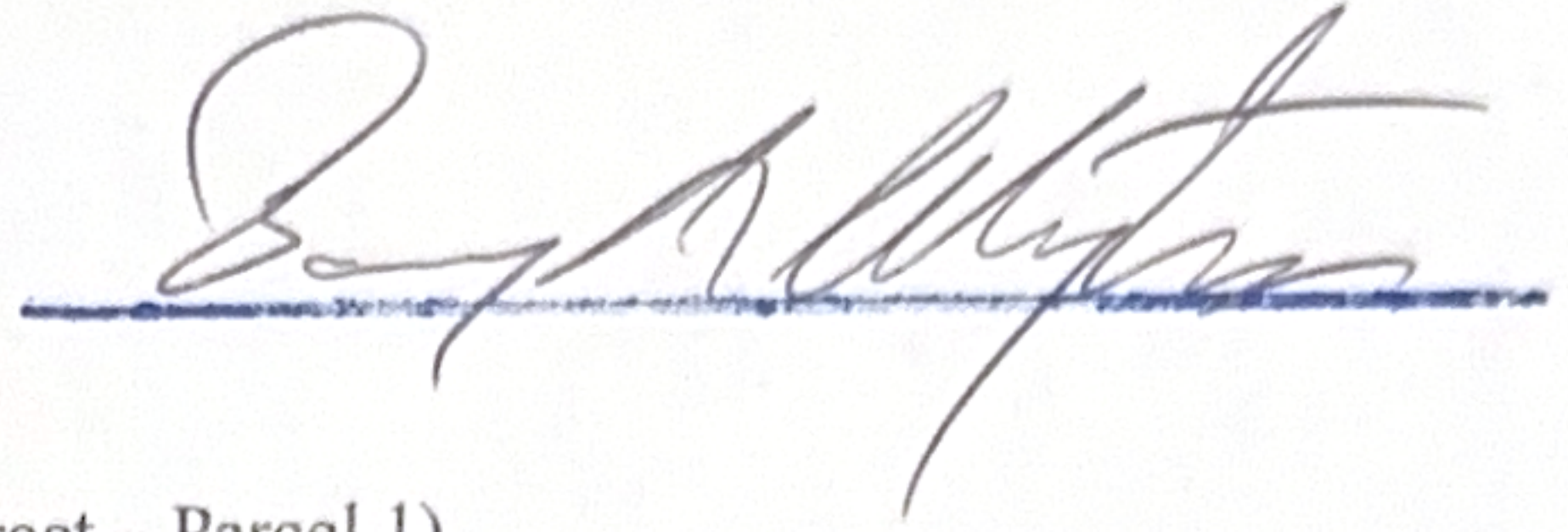
Owners of all properties located within 300 feet of the site will be provided an opportunity to submit comments regarding the appropriateness of the proposed use, consistent with the general business/office character of the district and in accordance with required public notice procedures.

Twiggs Academy remains committed to operating as a low-impact, professionally managed educational preschool that is compatible with the surrounding area.

HEREBY CERTIFY THIS COPY
TO BE A TRUE AND CORRECT
COPY OF THE ORIGINAL

This instrument was prepared by and return to:

Barry L. Clayton, Esq.
18314 Little Oaks Drive
Jupiter, Florida 33458



Folio Nos.: 36-43-42-20-01-048-0170 (101 10th Street – Parcel 1)
36-43-42-20-01-048-0270 (829 Silver Beach Road – Parcel 2)
36-43-42-20-01-048-0300 (823 Silver Beach Road – Parcel 3)

WARRANTY DEED
(STATUTORY FORM - SECTION 689.02, F.S.)

THIS INDENTURE, made this 25th day of March, 2022, between **JM WILSON CORP, a Florida corporation**, whose address is PO Box 210096, Royal Palm Beach, Florida 33421, Grantor*, and **MICHEL INVEST LLC, a Florida limited liability company**, whose mailing address is 5030 Sabreline Terrace, Greenacres, Florida 33463, Grantee*,

WITNESSETH that said Grantor, for and in consideration of the sum of Ten (\$10.00) Dollars, and other good and valuable consideration to said Grantor in hand paid by said Grantee, the receipt whereof is hereby acknowledged, has granted, bargained and sold to the said Grantee, and Grantee's successors and assigns forever, the following described land, situate, lying and being in Palm Beach County, Florida, to-wit:

Parcel 1:

Lots 17, 18, 19, 20, 21, 22, 23, 24, 25 and 26, Block 48, KELSEY CITY (n/k/a Lake Park), according to the Plat thereof, as recorded in Plat Book 8, Page 27, Public Records of Palm Beach County, Florida.

Parcel 2:

Lots 27, 28 and 29, Block 48, KELSEY CITY (n/k/a Lake Park), according to the Plat thereof, as recorded in Plat Book 8, Page 27, Public Records of Palm Beach County, Florida.

Parcel 3:

Lots 30, 31 and 32, Block 48, KELSEY CITY (n/k/a Lake Park), according to the Plat thereof, as recorded in Plat Book 8, Page 27, Public Records of Palm Beach County, Florida.

and said Grantor does hereby fully warrant the title to its interest in said land and will defend the same against lawful claims of all persons whomsoever. Grantor represents that it has fully complied with all requirements of Section 607.1202, Florida Statutes. * "Grantor" and "Grantee" are used for singular or plural, as context requires.

IN WITNESS WHEREOF, Grantor has hereunto set its hand and seal the day and year first above written.

Signed, sealed and delivered
in our presence:

Barry L. Clayton
Printed Name: Barry L. Clayton

Wayne S. Evans
Printed Name: WAYNE S. EVANS

JM WILSON CORP.,
a Florida corporation

By: *[Signature]*
Johnetta Wilson, President

Attest: *[Signature]*
Johnetta Wilson, Secretary

STATE OF FLORIDA
COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me by means of physical presence or online notarization this 25th day of March, 2022, by **Johnetta Wilson**, as President and Secretary, of JM Wilson Corp, a Florida corporation, on behalf of the corporation. She is personally known to me or has produced her Florida driver's license as identification, and she took an oath.

Barry L. Clayton
NOTARY PUBLIC
Name (printed): Barry L. Clayton



BARRY L. CLAYTON
Commission # HH 186408
Expires December 18, 2025
Bonded Thru Budget Notary Services



**TOWN OF LAKE PARK
COMMUNITY DEVELOPMENT DEPARTMENT**

APPLICATION FOR SITE PLAN REVIEW OR AMENDMENT

Please call (561)881-3319 for submittal fees

****For Planned Unit Development (PUD) applications, please refer to Section 78-77 of the
Town Code of Ordinances for additional requirements****

Project Name: Twiggs Academy

Project Address: 101 10th Street, Lake Park, FL 33403

Property Owner: MICHEL INVEST LLC

APPLICANT INFORMATION:

Applicant Name: Dr. Pierre Michel

Applicant Address: 5030 SABRELINE TER, LAKE WORTH, FL 33463

Phone: 561-289-6414 **Fax:** _____ **E-Mail:** 4drmichel@gmail.com

SITE INFORMATION:

General Location: Northeast corner of Silverbeach Road and Tenth Street

Address: 101 10th Street, Lake Park, FL 33403

Zoning District: C2 - Business **Future Land Use:** C2 - Business **Acreage:** 1.385

Property Control Number (PCN): 36-43-42-20-01-048-0170
36-43-42-20-01-048-0270
36-42-42-20-01-048-0300

ADJACENT PROPERTY:

| DIRECTION | ZONING | BUSINESS NAME | USE |
|-----------|--------|---------------|-------------|
| North | R2 | | MULTIFAMILY |
| East | R2 | | MULTIFAMILY |
| South | | | |
| West | C2 | | BUSINESS |

JUSTIFICATION:

Information concerning all requests (attach additional sheets if needed)

1. Please explain the nature of the request:

Proposed construction of a daycare building of approximately 7,476 SF after the demolition of the existing structure just east of the existing daycare building abutting Silverbeach Road and a new parking lot will be constructed north of the existing daycare building abutting Tenth Street.

2. What will be the impact of the proposed change to the surrounding area?

There will be no impact on the surrounding area as there will be three proposed driveways to access the site. The new construction along with updated landscaping will enhance the neighborhood.

3. How does the proposed Project comply with the Town of Lake Park's zoning requirements?

The proposed project complies with the Town of Lake Park's zoning requirements as the entire site except for 1 lot to the east is zoned business. The single lot to the east which is zoned multifamily will be rezoned.

LEGAL DESCRIPTION:

The subject property is located approximately 0 mile(s) from the intersection of Silverbeach Rd and Tenth St, on the north, east, south, west side of the (street/road).

Legal Description:

KELSEY CITY LTS 17 TO 26 INC BLK 48

KELSEY CITY IN PB 8 PGS 15 TO 18, 23, 27 & 34 TO 37 INC

I hereby certify that I am the owner(s) of record of the above described property or that I/we have written permission from the owner(s) of record to request this action.


OWNER/APPLICANT Signature

7-22-25
Date



PLEASE DO NOT DETACH FROM APPLICATION.

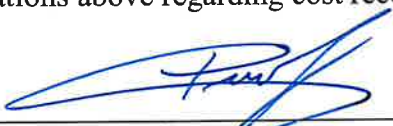
SIGNATURE REQUIRED BELOW.

Please be advised that Section 51-6 of the *Town of Lake Park Code of Ordinances* provides for the Town to be reimbursed, in addition to any application or administrative fees, for any supplementary fees and costs the Town incurs in processing development review requests.

These costs may include, but are not limited to, advertising and public notice costs, legal fees, consultant fees, additional Staff time, cost of reports and studies, NPDES stormwater review and inspection costs, and any additional costs associated with the building permit and the development review process.

For further information and questions, please contact the Community Development Department at 561-881-3318.

I, Pierre Michel, have read and understand the regulations above regarding cost recovery.


Property Owner Signature

7-22-25
Date

CONSENT FORM

FROM PROPERTY OWNER AND DESIGNATION OF AUTHORIZED AGENT:

Before me, the undersigned authority, personally appeared Pierre Michel, who, being by me first duly sworn, on Oath deposed and says:

1. That he/she is the fee simple title owner of the property described in the attached Legal Description;
2. That he/she is requesting _____ in the Town of Lake Park, Florida;
3. That he/she is appointed Imtiaz Ahmed to act as authorized on his/her behalf to accomplish the above Project.

Property Owner Name: Pierre Michel

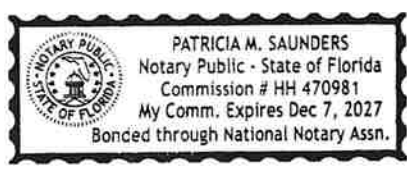
[Signature] Property Owner Signature By: Name/Title Manager

101 Tenth Street Street Address Lake Park FL 33403 City, State, Zip Code

561-289-6414 Telephone Number Fax Number

4drmichel@gmail.com E-Mail Address

Sworn and Subscribed before me on this 22 day of July, 2025,



Patricia M. Saunders
NOTARY PUBLIC

MY COMMISSION EXPIRES:
12/7/2027



TOWN OF LAKE PARK
COMMUNITY DEVELOPMENT DEPARTMENT

APPLICATION FOR SPECIAL EXCEPTION REVIEW

Applicant/Agent: Dr. Pierre Michel
Address: 5030 Sabrelane Terrace, Lake Worth, FL 33463
Telephone: 561-289-6414 Fax: _____
E-mail : 4drmichel@gmail.com

- Owner
- Agent (Attach Agent Authorization Form)

Owner's Name
(if not Applicant): _____
Address: _____
Telephone: _____ Fax: _____
E-Mail : _____

Property Location: 101 10th St, Lake Park, FL 33403
Legal Description: KELSEY CITY LTS 17 TO 32 INC BLK 48
Property Control Number: 36-43-42-20-01-048-0170, 36-43-42-20-01-048-0270,
36-43-42-20-01-048-0300

Future Land Use: Commercial Zoning: C2 - Business District
Acreage: 1.385 Square Footage of Use: 7,424
Proposed Use: Daycare

Zoning/Existing Use of Adjacent Properties:

North: R2 - Multiple Family Residence South: _____
East: R2 - Multiple Family Residence West: C2 - Business District

APPLICATION REQUIREMENTS:

1. Please discuss how the Special Exception use is consistent with the goals, objectives, and policies of the Town’s Comprehensive Plan.

The proposed special exception is consistent with the Commercial future land use and comprehensive plan

2. Please discuss how the proposed Special Exception is consistent with the land development and zoning regulations and all other portions of the Town of Lake Park Code of Ordinances.

the project has been designed to meet all applicable zoning and land development standards, including setbacks, parking, circulation, landscaping, and buffering. The use is compatible with the residential character of the district by providing a community-serving function with minimal impact on surrounding properties, and all operational elements—such as traffic, noise, and outdoor play areas—will comply with the Town’s performance and safety requirements.

3. Please explain how the proposed Special Exception use is compatible with the character and use (existing and future) of the surrounding properties in its function; hours of operation; type and amount of traffic to be generated; building location; mass; height and setback; and other relevant factors peculiar to the proposed Special Exception use and the surrounding property.

The proposed daycare Special Exception is compatible with the surrounding residential properties because it provides a low-intensity, neighborhood-serving use that fits the character of the R-2 district. The facility will operate during typical daytime hours (6:30 am to 7pm) and traffic will be limited to short, staggered drop-off and pick-up periods that will not impact nearby streets. The building’s location, mass, height, and setbacks comply with R-2 requirements, and the site layout—including parking, circulation, and outdoor play areas—has been designed to ensure safety, minimize noise, and maintain appropriate buffering. Together, these elements ensure the use integrates smoothly with both existing and future surrounding development.

4. Please explain how the establishment of the proposed Special Exception use in the identified location does not create a concentration or proliferation of the same or similar type of Special Exception use, which may be deemed detrimental to the development or redevelopment of the area in which the Special Exception use is proposed to be developed.

We have assessed the concentration of similar Special Exception uses (daycare centers) in the vicinity of the subject property and determined that granting this Special Exception will not result in an over-saturation or "clustering" that would be detrimental to area character or redevelopment potential. A review of the Lake Park zoning map and a survey of existing daycare facilities shows few, if any, comparable daycare Special Exceptions within a reasonable walking/driving radius. This project fills a local need for community-serving childcare without duplicating an existing concentration of such uses. Furthermore, the site and design have been carefully laid out to minimize neighborhood impacts, including thoughtful buffering, limited traffic peak overlap, and adherence to all Town development standards.

5. Please explain how the Special Exception use does not have a detrimental impact on surrounding properties based on; (a) The number of persons anticipated to be using, residing, or working on the property as a result of the Special Exception use; (b) The degree of noise, odor, visual, or other potential nuisance factors generated by the Special Exception use; (c) The effect on the amount and flow of traffic within the vicinity of the proposed Special Exception use.

The proposed daycare will accommodate a limited number of children and staff consistent with the scale of the building and site, ensuring that the number of persons on the property will not overwhelm the surrounding neighborhood. Any noise, visual, or other potential nuisance factors are minimized by the building's orientation, landscaping buffers, and the location of outdoor play areas, which are set back from adjacent properties. The use does not generate odors or other disruptive effects, and all operations are designed to be compatible with the residential character of the surrounding area

6. Please explain how the proposed Special Exception use meets the following requirements; (a) does not significantly reduce light and air to adjacent properties; (b) does not adversely affect property values in adjacent areas; (c) would not be deterrent to the improvement, development or redevelopment of surrounding properties in accord with existing regulations; (d) does not negatively impact adjacent natural systems or public facilities, including parks and open spaces; and (e) provides pedestrian amenities, including, but not limited to, benches, trash receptacles, and/or bicycle parking.

(a) The proposed daycare is a single-story building with appropriate setbacks, ensuring it does not significantly reduce light or air to adjacent properties.
(b) The use is compatible with the surrounding residential neighborhood and is designed to maintain the aesthetic and functional character of the area, so it is not expected to adversely affect property values.
(c) The project supports neighborhood-serving uses without creating conflicts, and its scale and design would not deter improvement, development, or redevelopment of surrounding properties in accordance with existing regulations.
(d) The site design preserves existing landscaping and stormwater systems and does not impact natural systems or public facilities, including nearby parks and open spaces.
(e) The project provides pedestrian amenities consistent with Town standards, including designated walkways, trash receptacles, and bicycle parking to support safe and convenient pedestrian access.

Please provide the following:

1. Fees:
 1. Special Exception Fees:

Structure Size:
0 - 14,999 sq. ft. = \$1,500.00
+ 15,000 sq. ft. = \$3,000.00
 2. Minimum Initial Escrow Fee: \$1,500.00
- Advertising costs:

The petitioner shall pay all costs of publication of Public Hearing required in a newspaper of general circulation within the Town. This cost will be deducted from the escrow.
2. Property Owners List: A complete list of property owners and mailing addresses of all property owners within 300 feet of the subject parcel as recorded in the latest official Palm Beach County Tax Roll. Certified Mail will be sent to all owners within 300 feet; postage will be deducted from escrow.
3. Location Map
4. Site Plan, Landscape Plan
Architectural Plans
 - A. Site plan drawn to scale indicating:
 1. size of the buildings;
 2. intended floor area ratios;
 3. quantity of parking spaces;
 4. intended access road(s);
 5. the general type of construction in accordance with the Florida Building Code and the Codes of the Town of Lake Park; and,
 6. availability and approximate location of utilities
 - B. Landscape Plan showing proposed improvements, to scale
 - C. Architectural plans including floor plan and building elevations, to scale
5. Site Survey: A certified boundary survey by a surveyor registered in the State of Florida containing an accurate legal description of the property and a computation of the total acreage of the parcel.
6. Applicants statement: On the Applicants letterhead please provide a statement of interest in the property.
7. Warranty Deed: A Warranty Deed with an affidavit from the Applicant stating that the Deed represents the current ownership.
8. Traffic Analysis: A Traffic Impact Analysis, if required by the Town Engineer or Staff.

***If special exception is for new development on a vacant parcel, please refer to requirements for site plan approval and site plan checklist as well.

STAFF REVIEW: SUBMIT ONE COMPLETE SET IN HARD COPY AND ONE AS AN ELECTRONIC COPY.

PLANNING BOARD REVIEW: UPON THE APPROVAL OF ALL GOVERNING AGENCIES, PLEASE SUBMIT ONE ELECTRONIC COPY AND SIX (6) COMPLETE SETS OF THE REQUIRED DOCUMENTS FOR FINAL REVIEW



PLEASE DO NOT DETACH FROM APPLICATION.

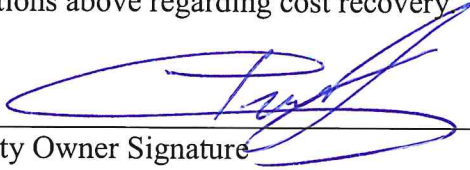
SIGNATURE REQUIRED BELOW.

Please be advised that Section 51-6 of the *Town of Lake Park Code of Ordinances* provides for the Town to be reimbursed, in addition to any application or administrative fees, for any supplementary fees and costs the Town incurs in processing development review requests.

These costs may include, but are not limited to, advertising and public notice costs, legal fees, consultant fees, additional Staff time, cost of reports and studies, NPDES stormwater review and inspection costs, and any additional costs associated with the building permit and the development review process.

For further information and questions, please contact the Community Development Department at 561-881-3320.

9/13/21

| | |
|--|-------------------------|
| I, <u>Dr. Pierre Michel</u> , have read and understand the regulations above regarding cost recovery | |
| <u></u> Property Owner Signature | <u>12-17-25</u> Date |



The Town of Lake Park

TOWN OF LAKE PARK APPLICATION FOR REZONING

Please note: The process to rezone property and associated informational requirements are governed by the Town of Lake Park Code of Ordinances, Chapter 32 - Rezoning and Chapter 33 - Land Development Regulations and provisions of other chapters in the Code. It is suggested that applicants schedule a meeting with the Town of Lake Park Community Development Director to discuss the information needed.

DATE Received by Town of Lake Park: _____

This application must be completed and returned with all required enclosures to be accepted by the Town Commission of the Town of Lake Park. The application will then be referred to the Town Planning and Zoning Board and the Town Staff for study and recommendations.

(Please Print)

Name of Applicant Dr. Pierre Michel

Name of Agent (if applicable): _____

(Required to attach Town of Lake Park Agent Authorization Form)

Mailing Address 5030 Sabrelane Terrace

(This is the address to which all letters, agendas and other materials will be sent)

City Lake Worth State FL Zip Code 33463

Telephone (561) 289-6414 Fax () _____

Legal description of property covered by petition

Lot 30-32 Block 48 Plat _____ (Attach separate sheet if necessary)

Property I. D. No. 36-43-42-20-01-048-0170, 36-43-42-20-01-048-0270, 36-43-42-20-01-048-0300

GENERAL INFORMATION ABOUT PROPERTY AND REQUEST

1. Size of property (square feet or acreage): 1.385 acres

2. Highway and street boundaries or address: Tenth Street

Silver Beach Road

3. Existing Comprehensive Plan Land Use classification: Commercial

4. Existing Zoning District classification: R2

5. Requested Zoning District classification: C2 - Business District

6. Describe any structures or uses currently located on the property:

There is currently an existing 5,134 SF daycare and a 3,186 SF vacant building on site.

THE INFORMATION/ENCLOSURES LISTED ON THE FOLLOWING PAGE(S) MUST BE

SUBMITTED IN CONJUNCTION WITH THIS APPLICATION.

7. Specific Information on Requested Zoning Change:

- Map showing property subject to this application.
- List of names and mailing addresses of property owners within 300 feet of the property subject to this application
- Notarized affidavit of owner authorizing applicant to act as his/her agent to submit application for Rezoning
- Ten (10) copies of Site Plan(s), if applicable
- Building plans of structures to be erected
- Certified survey of property
- Tentative Sub-Division Plat

8. Applicant's statement of explanation, needs and reasons for the requested rezoning:

Michel Invest LLC., as owner, requests a zoning district amendment for lots 30 thru 32, block 48, plat of Kelsey City, Lake Park, Florida. The property is located at the northeast corner of Tenth Street and Silver Beach Road and is comprised of an existing day care building to remain and the vacant existing daycare building which will be demolished and a new daycare building will be constructed per the site plan.

9. Applicant's Response to the Following: (Attach additional sheets as necessary.)

- a. That the requested change would be consistent with the land use plan and would not have an adverse effect on the comprehensive plan;

The proposed rezoning is to rezone the one parcel zoned R-2 to C-2 to allow for the development of our proposed site plan and make the existing zoning of this R-2 parcel consistent with the Commercial underlying future land use category

- b. That the requested change is consistent with the existing land use pattern;

The proposed land use of commercial will result in the properties being consistent with the commercial use of properties to the west (across Tenth St.) and to the south (across Silver Beach Road).

- c. That the requested change will not result in increase or overtaxing of public facilities (schools, streets, utilities, etc.). Acceptable documentation may include, but not be limited to, traffic impact studies, concurrency reviews, letters from service providers indicating the availability of capacity, etc.

The requested land use change does not adversely effect public facilities since it represents a form of corrective change to the actual use of the property from a medium density residential to the low use commercial of a child care facility. This change will result in a lessening of public school children, a lessening of utility use a minimal traffic impact.

- d. That the requested change will not adversely impact public safety:

The requested change from medium density residential to commercial has minimal impact on and will not adversely effect public safety. The property is currently improved and utilized and does not require the expansion or extension of public safety services.

- e. That the requested change will not adversely impact living conditions in the neighborhood or other surrounding areas;

The requested change will not adversely impact living conditions on adjacent properties. - it will, in fact, provide a needed and close by child care facility to families in the area, eliminating long drives. The property will be maintained in a residential manner and will provide a 6' barrier wall along with an 8' landscape buffer along the residential side of our property. This will minimize any noise and other disturbances to the other neighboring properties.

- f. That there are substantial reasons why the property cannot be used in accord with existing zoning (explain the reasons);

The current land use category allows residential uses, which, by zoning, permits child care use. However the land use designation does not allow any commercial use in residential areas. This conflict prevents the child care use allowed under r-2 zoning. The rezoning to commercial will create consistency with the underlying Commercial future land use so that the application for a special exception request for educational facility can move forward for consideration.

- g. Whether or not the requested change will constitute a grant of special privilege to an individual owner as contrasted with the public welfare.

No special privilege will be granted

FOR ADMINISTRATIVE USE ONLY:

Application and filing fee of \$250.00 received by Town Clerk on _____

Mailing labels for all property owners within 300 feet of subject property supplied by applicant on _____.

Applicant informed that he/she is responsible for cost of legal publication as required herein or he/she is to be taken off the agenda on _____

STAFF RECOMMENDATION: _____APPROVAL _____DENIAL

PLANNING AND ZONING BOARD RECOMMENDATION:
_____APPROVAL _____DENIAL