



ALTERNATES PACKAGE

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FIRE PROTECTION

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NOVEMBER 24, 2025

POMPEY PARK  
DELRAY BEACH, FL



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- L1.3.1 - ALTERNATE - LANDSCAPE PLANS
- L1.5.1 - ALTERNATE - LANDSCAPE NOTES & SCHEDULE
- IRR1.3.1 - ALTERNATE - IRRIGATION PLANS
- IRR1.5.1 - ALTERNATE - IRRIGATION SCHEDULE AND NOTES

### ALTERNATE #7 - ELIMINATE ONE BASKETBALL HALF COURT

- AS100.1 - ALTERNATE - SITE PLAN
- L1.4.1 - ALTERNATE - LANDSCAPE PLANS
- L1.5.1 - ALTERNATE - LANDSCAPE NOTES & SCHEDULE
- IRR1.4.1 - ALTERNATE - IRRIGATION PLANS
- IRR1.5.1 - ALTERNATE - IRRIGATION SCHEDULE AND NOTES

### ALTERNATE #12 - 4" THICK STANDARD BROOM FINISH IN LIEU OF 5" THICK SCORED CONCRETE.

- AS100.1 - ALTERNATE - SITE PLAN
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## **ALTERNATE #1 – ELIMINATE FITNESS EQUIPMENT AREA**

BY: JUSTIN ARCHITECTS, P.A. & MILLER LEGG & ASSOCIATES

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE OUTDOOR FITNESS EQUIPMENT LOCATED ON THE WEST SIDE OF THE BUILDING, ADJACENT TO THE GYMNASIUM (SEE SHEET AS100-D FOR REFERENCE), WILL BE COMPLETELY REMOVED FROM THE PROJECT SCOPE. THE ORIGINAL DESIGN INCLUDED A DEDICATED EXTERIOR EXERCISE ZONE INTENDED FOR PUBLIC USE. UNDER THIS PROPOSAL, THE ENTIRE FITNESS AREA AND ALL ASSOCIATED CONSTRUCTION COMPONENTS ARE TO BE ELIMINATED IN THEIR ENTIRETY.

THE FOLLOWING FITNESS EQUIPMENT ITEMS, ORIGINALLY SPECIFIED IN SECTION 116800 - PLAY FIELD EQUIPMENT, WILL BE FULLY REMOVED FROM THE PROJECT SCOPE:

- AB CRUNCH / LEG LIFT
- ASSISTED ROW / PUSH-UP
- PARALLEL BARS
- BALANCE STEP
- CARDIO STEPPER
- CHEST / BACK PRESS
- ELLIPTICAL
- PULL-UP / DIP
- SQUAT PRESS
- STRETCH MATERIAL

ALL EQUIPMENT LISTED ABOVE, INCLUDING ANY PROPRIETARY MOUNTING HARDWARE, EMBEDDED PLATES, FOUNDATION SYSTEMS, AND ANCHORAGE ASSEMBLIES REQUIRED FOR INSTALLATION, SHALL BE REMOVED ENTIRELY. THIS INCLUDES THE REMOVAL OF ALL CONCRETE PADS, BASES, FOOTINGS, FENCING/ GATES AND BELOW-GRADE STRUCTURAL COMPONENTS ASSOCIATED WITH EACH EQUIPMENT UNIT. ALL SIDEWALKS SURROUNDING THE FITNESS FOOTPRINT WILL REMAIN AS SHOWN IN THE BASIS-OF-DESIGN DOCUMENTS.

UPON REMOVAL OF THESE ELEMENTS FROM THE SCOPE, THE RESULTING FOOTPRINT SHALL BE REVISED TO A GRASS SURFACE IN ACCORDANCE WITH THE UPDATED LANDSCAPE NARRATIVE.

REFER TO SHEET AS100-D ENLARGED SITE PLAN ODOM'S FIELD AND SPECIFICATION SECTION 116800 PLAY FIELD EQUIPMENT FOR REFERENCE ONLY. ALL FITNESS DESIGN, INSTALLATION, AND COORDINATION REQUIREMENTS WITHIN THE FITNESS EQUIPMENT SECTION OF SPECIFICATION 116800 ARE NO LONGER APPLICABLE UNDER THIS VALUE ENGINEERING PROPOSAL.

**LANDSCAPE/CIVIL:**

THIS VALUE ENGINEERING PROPOSAL WOULD REMOVE THE FITNESS AREA FROM THE SCOPE OF WORK. FENCING, SURFACING, AND EQUIPMENT WOULD ALSO BE REMOVED FROM THE SCOPE. THE AREA IS TO BE CLEARED AND REPLACED WITH SOD TO MATCH THE SURROUNDING AREAS. A NEW IRRIGATION ZONE IS TO BE INSTALLED, CONSISTING OF A 1½" VALVE, 21 TURF ROTORS, AND THE NECESSARY LATERAL PIPES, SLEEVES, AND MAINLINE ADJUSTMENTS.

REGRADE THE EQUIPMENT AREA TO MATCH THE PROPOSED SITE GRADES. FINE-GRADE TO ENSURE SMOOTH TRANSITIONS WITH ADJACENT SURFACES, THEN INFILL AND RESTORE THE AREA WITH SOD MATCHING THE SURROUNDINGS.

**REVISED DRAWINGS:**

- AS100.1 - ALTERNATE SITE PLAN
- L1.3.1 - ALTERNATE LANDSCAPE PLANS
- L1.5.1 - ALTERNATE-LANDSCAPE NOTES & SCHEDULE
- IRR1.3.1 - ALTERNATE IRRIGATION PLANS
- IRR1.5.1 - ALTERNATE-IRRIGATION SCHEDULE AND NOTES



## **ALTERNATE #2 – ELIMINATE MONUMENT SIGN AT NE CORNER OF SITE**

BY: JUSTIN ARCHITECTS, P.A., MILLER LEGG & ASSOCIATES & CONSULTING ENGINEERING SERVICES (CES)

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE MONUMENT SIGN LOCATED AT THE NORTHEAST CORNER OF THE SITE (SEE SHEET SG100 SIGNAGE SITE PLAN FOR REFERENCE) WILL BE FULLY REMOVED FROM THE PROJECT SCOPE. THE SIGN, ORIGINALLY DESIGNED AS A PERMANENT ARCHITECTURAL FEATURE FOR SITE IDENTIFICATION AND BRANDING, WILL NO LONGER BE INCLUDED IN THE PROJECT. THE PROPOSED REMOVAL INCLUDES THE FOLLOWING ELEMENTS ASSOCIATED WITH THE MONUMENT SIGN ASSEMBLY:

- RAISED LETTERING
- STUCCO FINISH AND SUBSTRATE
- SEALED CONCRETE COMPONENTS
- DELRAY BEACH LOGO
- STRUCTURAL SLAB
- BELOW-GRADE FOOTINGS AND SUPPORT ELEMENTS

ALL COMPONENTS, ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND SUBGRADE, SHALL BE REMOVED FROM SCOPE, INCLUDING REINFORCEMENT, EMBEDDED HARDWARE, ANCHOR POINTS, CONDUITS, SLEEVES, AND ANY OTHER MATERIALS ASSOCIATED WITH THE SIGN'S CONSTRUCTION. THE EXISTING ROUNDED SIDEWALK IN THIS AREA SHALL BE EXTENDED NORTH AT A RIGHT ANGLE AND STRAIGHTENED, AS THE MONUMENT SIGN WILL NO LONGER OCCUPY THIS LOCATION. THE MONUMENT SIGN LOCATED AT THE SOUTHEAST CORNER OF THE SITE WILL REMAIN AS ORIGINALLY DESIGNED AND IS NOT AFFECTED BY THIS VALUE ENGINEERING PROPOSAL.

THE AREA PREVIOUSLY OCCUPIED BY THE MONUMENT SIGN SHALL BE RESTORED IN ACCORDANCE WITH THE LANDSCAPE NARRATIVE. THE FINAL CONDITION MUST MATCH THE SURROUNDING HARDSCAPE AND LANDSCAPE IN COLOR, TEXTURE, JOINTS, ELEVATION, AND SLOPE TO ENSURE A CONTINUOUS AND INTEGRATED APPEARANCE.

REFER TO THE ELECTRICAL NARRATIVE ON THIS SHEET FOR SCOPE CLARIFICATION REGARDING ANY LIGHTING OR POWER ORIGINALLY ASSOCIATED WITH THE MONUMENT SIGN.

SEE SHEET SG402 MONUMENT SIGN PLAN ELEVATIONS AND KEY NOTES FOR REFERENCE.

**ELECTRICAL:**

REMOVE POWER REQUIREMENTS SERVING THE MONUMENTAL SIGN LOCATED ON THE NORTHEAST CORNER OF THE SITE BESIDE THE TENNIS COURT. THIS INCLUDES ALL CONDUIT, J-BOXES, AND CONDUCTORS. THE SIGN IS FED FROM THE CIVIC LAWN PANEL CLP, LOCATED ON THE CIVIC LAWN, CIRCUIT CLP-6. THE CIRCUIT BREAKER IN THIS PANELBOARD SHALL REMAIN AS A SPARE BREAKER. SHOWN ON SHEET SU100.

**LANDSCAPE/ CIVIL:**

THIS VALUE ENGINEERING PROPOSAL WOULD REMOVE THE MONUMENT SIGN FROM THE NORTHEAST (NE) CORNER OF THE SITE. THE SIGN'S LOCATION IS TO BE SODDED IN LIEU OF INSTALLING SIGNAGE. THE CURRENT IRRIGATION LAYOUT DOES NOT REQUIRE ANY CHANGES.

REGRADE THE SIGN AREA TO MATCH THE PROPOSED SITE GRADES. FINE-GRADE TO ENSURE SMOOTH TRANSITIONS WITH ADJACENT SURFACES, THEN INFILL AND RESTORE THE AREA WITH SOD.



## **ALTERNATE #3 – MODIFY SPORTS LIGHTING DESIGN**

BY: JUSTIN ARCHITECTS, P.A. & MILLER LEGG & ASSOCIATES

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING EFFORT, MINOR REFINEMENTS WERE MADE TO THE SPORTS LIGHTING DESIGN TO OPTIMIZE COSTS WHILE MAINTAINING SAFE AND EFFECTIVE ILLUMINATION LEVELS FOR ALL PROGRAMMED AREAS. THE FOLLOWING SUMMARIZES ALL CHANGES IN FIXTURE QUANTITIES AND TYPES FOR EACH AFFECTED POLE AND SPORTS AREA:

#### **LITTLE LEAGUE FIELD (CIRCUIT B – POLES A3 AND A4)**

IN THE BASIS OF DESIGN, POLES A3 AND A4 EACH INCLUDED TWO (2) TLC-LED-1200 AND FOUR (4) TLC-LED-900 FIXTURES. IN THE REVISED DESIGN, ALL TLC-LED-1200 AND TLC-LED-900 FIXTURES HAVE BEEN REMOVED AND REPLACED WITH SIX (6) TLC-LED-550 FIXTURES PER POLE.

#### **ODOM'S FIELD (CIRCUIT C – POLES A5, B5, AND B6)**

UNDER THE BASIS OF DESIGN, POLE A5 INCLUDED TWO (2) TLC-LED-1500 AND FOUR (4) TLC-LED-900 FIXTURES. THESE HAVE BEEN REPLACED WITH TWO (2) TLC-LED-900 AND FOUR (4) TLC-LED-550 FIXTURES.

POLES B5 AND B6 EACH PREVIOUSLY INCLUDED FOUR (4) TLC-LED-1500 AND TWO (2) TLC-LED-900 FIXTURES. ALL TLC-LED-1500 FIXTURES HAVE BEEN REMOVED AND REPLACED WITH SIX (6) TLC-LED-900 FIXTURES PER POLE.

#### **BATTING CAGES (CIRCUIT K)**

THE BASIS OF DESIGN INCLUDED FOUR (4) TLC-LED-1200 FIXTURES. THE REVISED DESIGN REMOVES ONE FIXTURE, RESULTING IN THREE (3) TLC-LED-1200 FIXTURES REMAINING.

#### **FAMILY POOL (CIRCUIT D)**

THE BASIS OF DESIGN UTILIZED A MIX OF TLC-LED-900 AND TLC-LED-1200 FIXTURES TOTALING 7.61 KW. THE REVISED DESIGN REPLACES HIGHER-OUTPUT FIXTURES WITH LOWER-OUTPUT UNITS, RESULTING IN A REDUCED CONNECTED LOAD OF 5.04 KW.

#### **COMPETITION POOL (CIRCUIT E)**

THE BASIS OF DESIGN INCLUDED TLC-LED-900 AND TLC-LED-1200 FIXTURES TOTALING 5.86 KW. THE REVISED DESIGN REPLACES THESE WITH LOWER-OUTPUT TLC-LED-550 FIXTURES, REDUCING THE LOAD TO 3.24 KW.

## **BASKETBALL COURTS (CIRCUIT H)**

- HALF BASKETBALL COURT:  
THE BASIS OF DESIGN INCLUDED TWO (2) TLC-LED-900 FIXTURES ON POLE BA1. AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE ENTIRE HALF-COURT LIGHTING SYSTEM, INCLUDING BOTH POLES AND ALL FIXTURES, HAS BEEN REMOVED FROM THE PROJECT.
- FULL COURT ONE:  
NO REDUCTION IN POLES OR FIXTURE QUANTITY. PERFORMANCE REMAINS CONSISTENT WITH THE BASIS OF DESIGN.
- FULL COURT TWO:  
POLES P4 AND P5 WERE RETAINED; HOWEVER, THE POLE MOUNTING HEIGHT WAS REDUCED FROM 50 FEET TO 40 FEET WHILE MAINTAINING THE SAME FIXTURE CONFIGURATION OF TWO (2) TLC-LED-550 LUMINAIRES PER POLE. THIS CHANGE IMPROVES COST EFFICIENCY WITHOUT COMPROMISING LIGHTING REQUIREMENTS.

## **AREAS WITH NO FIXTURE CHANGES**

Fixture quantities and types remain unchanged from the basis of design for TEDDY'S FIELD, TENNIS COURTS T1-T4, and the CIVIC LAWN.

These revisions result in reduced fixture quantities and wattage across multiple sports areas, aligning the lighting system with revised illumination requirements while maintaining appropriate performance for each space.



#### **ALTERNATE #4 – ELIMINATE BULL PENS AT ADULT FIELD**

BY: MILLER LEGG & ASSOCIATES

#### **LANDSCAPE / CIVIL:**

THE REMOVAL OF THE BULLPENS AT THE ADULT FIELD FROM THE DESIGN ELIMINATES THE REQUIRED FENCING WORK, INSTALLATION OF THE CLAY SURFACING, AND INSTALLATION OF TWO PITCHING RUBBERS AND TWO HOME PLATES. THE LOCATION OF THE BULLPEN IS TO BE INFILLED WITH APPROPRIATE SODDING TO MATCH THE SURROUNDING AREAS. ADDITIONAL IRRIGATION IS TO BE INSTALLED TO PROVIDE FULL COVERAGE. EACH OF THE TWO NEW IRRIGATED AREAS REQUIRES ITS OWN VALVE TO CREATE A NEW ZONE, ALONG WITH LATERAL LINES AND HEADS TO ACHIEVE THE DESIGN INTENT OF FULL COVERAGE. MAINLINE EXTENSION MAY BE REQUIRED FOR THE AREA TO THE SOUTH OF THE FIELD, CLOSEST TO THE POOLS, PENDING FULL DESIGN. RESIZING OF THE MAINLINE SYSTEM MAY ALSO BE REQUIRED. CORRESPONDING QUANTITY CALCULATIONS SHALL BE REVISED TO ACCOUNT FOR THIS MODIFICATION.

REGRADE THE BULLPEN AREA TO MATCH THE PROPOSED SITE GRADES. FINE-GRADE TO ENSURE SMOOTH TRANSITIONS WITH ADJACENT SURFACES, THEN INFILL AND RESTORE THE AREA WITH SOD MATCHING THE SURROUNDING TURF.



### **ALTERNATE #5 - ELIMINATE HALF OF BATTING CAGES**

BY: MILLER LEGG & ASSOCIATES

#### **LANDSCAPE/ CIVIL:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, HALF OF THE BATTING CAGES ARE TO BE REMOVED FROM THE SCOPE OF WORK. THE EASTERN BATTING CAGES BY TEDDY'S FIELD ARE TO BE REMOVED FROM THE SCOPE, WITH THE WESTERN BATTING CAGES TO REMAIN. FENCING, NETTING, AND ARTIFICIAL TURF ARE TO BE REMOVED FROM THE QUANTITIES. THE AREA WHERE THE EASTERN BATTING CAGES HAVE BEEN REMOVED IS TO BE INFILLED WITH APPROPRIATE SODDING TO MATCH THE SURROUNDING AREAS. IRRIGATION IS TO BE INSTALLED TO ACHIEVE FULL HEAD-TO-HEAD COVERAGE, INCLUDING AN ADDITIONAL VALVE TO CREATE A NEW ZONE, LATERAL LINES, AND HEADS TO ACHIEVE THE DESIGN INTENT OF FULL COVERAGE. RESIZING OF THE MAINLINE SYSTEM MAY BE REQUIRED. CORRESPONDING QUANTITY CALCULATIONS SHALL BE REVISED TO ACCOUNT FOR THIS MODIFICATION.

REGRADE THE BATTING CAGES AREA TO MATCH THE PROPOSED SITE GRADES. FINE-GRADE TO ENSURE SMOOTH TRANSITIONS WITH ADJACENT SURFACES, THEN INFILL AND RESTORE THE AREA WITH SOD MATCHING THE SURROUNDING TURF.



## **ALTERNATE #6 – ELIMINATE PERGOLA**

*BY: JUSTIN ARCHITECTS, P.A., CONSULTING ENGINEERING SERVICES (CES) & MILLER LEGG & ASSOCIATES*

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE PERGOLA LOCATED BETWEEN THE LITTLE LEAGUE FIELD, ODOM'S FILED, TEDDY'S FIELD AND THE NEW COMMUNITY BUILDING (SEE SITE PLAN SHEET AS100 FOR REFERENCE) WILL BE FULLY REMOVED FROM THE PROJECT SCOPE. THIS INCLUDES ALL ARCHITECTURAL, ELECTRICAL AND STRUCTURAL COMPONENTS ASSOCIATED WITH THE PERGOLA.

THE REMOVAL OF SCOPE INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING ELEMENTS:

- PREFABRICATED ALUMINUM FRAMING SYSTEM AND OVERHEAD MEMBERS
- CONCRETE VERTICAL SUPPORT COLUMNS
- CONCRETE STRUCTURAL FOOTINGS
- VAPOR BARRIER LOCATED BENEATH THE SLAB

WITH THE PERGOLA AND ASSOCIATED ELEMENTS REMOVED FROM THE CONSTRUCTION SCOPE, THE AREA PREVIOUSLY DESIGNATED FOR THIS STRUCTURE SHALL BE BACKFILLED AND COMPACTED AS REQUIRED. NEW 6-INCH-THICK, VEHICULAR-RATED CONCRETE SHALL BE INSTALLED TO MATCH THE SURROUNDING HARDSCAPE, INCLUDING BROOM FINISH, COLOR, TEXTURE, JOINT LAYOUT, AND ELEVATION, ENSURING A UNIFORM AND CONTINUOUS HARDSCAPE SURFACE CONSISTENT WITH THE BASIS-OF-DESIGN.

FOR INFORMATION REGARDING THE REMOVAL OF LIGHTING ASSOCIATED WITH THE PERGOLA, REFER TO THE ELECTRICAL NARRATIVE. SEE FLOOR PLANS, REFLECTED CEILING PLAN, ELEVATIONS, AND SECTIONS OF THE PERGOLA ON SHEET AS405 FLOOR PLANS, RCP, ELEVATIONS, SECTION - PERGOLA FOR REFERENCE.

### **ELECTRICAL:**

REMOVE SIX LIGHTING FIXTURES SERVING THE PERGOLA, FIXTURE TYPE "SG." THESE FIXTURES ARE FED BY PANEL "L1", CIRCUIT L1-49. THE PANEL IS LOCATED IN THE MAIN ELECTRICAL ROOM ON THE GROUND FLOOR. REMOVE ALL CONDUIT, J-BOXES, AND CONDUCTORS ASSOCIATED WITH THIS ITEM. THE CIRCUIT BREAKER IN THIS PANELBOARD SHALL REMAIN AS A SPARE BREAKER.

**LANDSCAPE:**

THE ELIMINATION OF THE PERGOLA WILL REQUIRE THE AREA TO BE BACKFILLED, COMPACTED, AND PREPARED FOR CONCRETE PEDESTRIAN SURFACING TO MATCH THE SURROUNDING AREA'S DESIGN. THE HARDSCAPE PLAN AND QUANTITIES REQUIRE UPDATES TO REFLECT THE ADDITIONAL HARDSCAPE AREA. CORRESPONDING QUANTITY CALCULATIONS SHALL BE REVISED TO ACCOUNT FOR THIS MODIFICATION.

**CIVIL:**

THE REMOVAL OF THE PERGOLA WILL NECESSITATE BACKFILLING AND COMPACTION OF THE AFFECTED AREA TO ESTABLISH A STABLE SUBGRADE SUITABLE FOR THE INSTALLATION OF NEW CONCRETE PEDESTRIAN SURFACING, IN ACCORDANCE WITH THE GENERAL CONSTRUCTION DETAILS PROVIDED IN THE CONSTRUCTION DOCUMENTS. CORRESPONDING QUANTITY CALCULATIONS ON THE PAVING, GRADING, AND DRAINAGE PLAN SHALL BE REVISED TO ACCOUNT FOR THE ADDITIONAL BACKFILLING, STABILIZED BASE, AND CONCRETE AREA RESULTING FROM THIS MODIFICATION.



## **ALTERNATE #7 - ELIMINATE ONE BASKETBALL HALF-COURT (INCLUDES SPORTS-LIGHTING)**

BY: JUSTIN ARCHITECTS, PA & MILLER LEGG & ASSOCIATES

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE HALF BASKETBALL COURT LOCATED AT THE SOUTHEAST PORTION OF THE SITE NEAR THE COMPETITION POOL WILL BE REMOVED FROM THE PROJECT SCOPE. THE REMOVAL WILL INCLUDE, BUT IS NOT LIMITED TO:

- SPECIFIED FLOOR FINISH FOR THE HALF COURT
- MODIFICATIONS ASSOCIATED WITH THE COURT LAYOUT
- COURT SURFACE PAINT AND MARKINGS
- BASKETBALL HOOP AND BACKBOARD ASSEMBLY
- A LIGHTING POLE AND TWO LIGHTS BY MUSCO LIGHTING (REFER TO ALTERNATE #3)

WITH THE HALF COURT AND ALL ASSOCIATED ELEMENTS REMOVED FROM THE SCOPE, THE SURFACE AREA BETWEEN THE FORMER HALF COURT AND THE FULL COURT ABOVE HAS BEEN REDUCED BY 5 FEET IN THE DIRECTION OF THE FULL COURT. ALL SIDEWALKS SURROUNDING THE COURT FOOTPRINT WILL REMAIN AS SHOWN IN THE BASIS-OF-DESIGN DOCUMENTS. REFER TO THE LANDSCAPE NARRATIVE FOR THE NEW SURFACE FINISH AT THE MODIFIED AREA.

THE ASSOCIATED SPORTS LIGHTING INFRASTRUCTURE INCLUDED IN THE BASIS OF DESIGN WILL ALSO BE REMOVED AS PART OF THIS VALUE ENGINEERING ITEM, INCLUDING:

- LIGHTING POLE BA1 (50'-0" HEIGHT).
- TWO LIGHT FIXTURES, TYPE TLC-LEDL550, FROM THE BASIS OF DESIGN LIGHTING PACKAGE, CONNECTED TO CIRCUIT 'H' ON THE MUSCO LIGHTING PANEL.
- WIRING AND ASSOCIATED CONNECTIONS TO THE MUSCO LIGHTING CONTROL PANEL.

### **LANDSCAPE:**

THIS VALUE ENGINEERING PROPOSAL WOULD REMOVE THE HALF BASKETBALL COURT AND REPLACE IT WITH AN OPEN SODDED AREA. THE AREA IS TO BE CLEARED AND REPLACED WITH SOD TO MATCH THE SURROUNDING AREAS. A NEW IRRIGATION ZONE IS TO BE INSTALLED, CONSISTING OF A 1" VALVE, 16 TURF ROTORS, AND THE NECESSARY LATERAL PIPES, SLEEVES, AND MAINLINE ADJUSTMENTS.

**ELETTRICAL:**

REMOVE POWER REQUIREMENTS SERVING ONE MUSCO LIGHTING FIXTURE AND POLE TYPE "BA1" BESIDE THE HALF COURT LOCATED ON THE SOUTHEAST CORNER OF THE SITE. THIS INCLUDES THE POLE, FIXTURE, CONDUIT, J-BOXES, AND CONDUCTORS ASSOCIATED WITH THIS ITEM. CIRCUITS SL1-31, SL1-33, AND SL1-35 SHALL BE REMOVED FROM THE SCOPE. THE PANEL IS LOCATED IN THE MAIN ELECTRICAL ROOM ON THE GROUND FLOOR. REFER TO SPORTS LIGHTING PHOTOMETRIC PLAN SHEET SP103 AND SITE UTILITY PLAN SHEET SU100.

**REVISED DRAWINGS/ LIGHTING PACKAGE:**

- AS100.1 - ALTERNATE - SITE PLAN
- L1.4.1 – ALTERNATE - LANDSCAPE PLANS
- L1.5.1 - ALTERNATE-LANDSCAPE NOTES & SCHEDULE
- IRR1.4.1 - ALTERNATE - IRRIGATION PLANS
- IRR1.5.1 - ALTERNATE - IRRIGATION SCHEDULE AND NOTES



**ALTERNATE #8 - ELIMINATE ALL WORK AT TENNIS COURTS (EXCLUDES SPORTS LIGHTING)**

*BY: CONSULTING ENGINEERING SERVICES (CES) & MILLER LEGG & ASSOCIATES*

**LANDSCAPE:**

REMOVAL OF ALL WORK AT THE TENNIS COURTS FROM THE BASIS OF DESIGN SCOPE ELIMINATES RESURFACING EFFORTS AND THE NEED FOR A NEW FENCE SURROUNDING THE COURTS. THE EXISTING FENCING AND TENNIS COURTS ARE TO REMAIN. CORRESPONDING QUANTITY CALCULATIONS SHALL BE REVISED TO ACCOUNT FOR THIS MODIFICATION. A SEPARATE LINE-ITEM COST SHALL BE PROVIDED FOR THE OPTIONAL INCLUSION OF A NEW PERIMETER FENCE AROUND THE TENNIS COURTS.

**ELETTRICAL:**

SPORTS LIGHTING TO REMAIN AS SPECIFIED IN THE BASIS OF DESIGN CONSTRUCTION DOCUMENTS.



## **ALTERNATE #9 - CHANGE ACOUSTICAL CEILING ACT-1 TO ARMSTRONG CALLA #2820**

BY: JUSTIN ARCHITECTS, PA & CONSULTING ENGINEERING SERVICES (CES)

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE ACOUSTICAL CEILING TILE DESIGNATED AS ACT-1 LYRA PB HIGH CAC IN THE FINISH SCHEDULE IS PROPOSED TO BE REPLACED WITH THE ARMSTRONG CALLA CEILING SYSTEM IN ALL AREAS WHERE ACT-1 IS CURRENTLY SPECIFIED. THIS CHANGE IN CEILING MATERIAL APPLIES TO THE FOLLOWING ROOMS:

- ROOM 100A - RECEPTION
- ROOMS 115B, 116A, 116B, 116C, AND 116D - OFFICES
- ROOM 217 - STAFF LOUNGE
- ROOM 204 - MULTIPURPOSE ROOM
- ROOM 206 - MP GREEN

THE 2'X2' CEILING GRID SYSTEM, ARMSTRONG PRELUDE XL 15/16" EXPOSED TEE, IDENTIFIED AS THE BASIS-OF-DESIGN IN THE FINISH SCHEDULE WILL REMAIN UNCHANGED UNDER THIS ALTERNATE. THE PRELUDE XL GRID IS FULLY COMPATIBLE WITH BOTH THE LYRA AND CALLA CEILING SYSTEMS. ALL GRID COMPONENTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE CALLA MANUFACTURER'S REQUIREMENTS FOR TILE SUPPORT, SUSPENSION SPACING, AND SYSTEM PERFORMANCE. THE CALLA SYSTEM PROVIDES A 30-YEAR CEILING AND GRID WARRANTY, EQUAL TO THE LYRA WARRANTY. FOR ADDITIONAL INSTALLATION REQUIREMENTS, REFER TO ACOUSTICAL CEILING CALLA SPECIFICATION 095113.

ALL 2'X2' LIGHTING FIXTURE LAYOUTS, HVAC COMPONENTS AND SPECIFICATIONS WITHIN THESE CEILING AREAS REMAIN UNCHANGED. THE SCOPE OF THIS VALUE ENGINEERING ITEM IS LIMITED SOLELY TO THE SUBSTITUTION OF THE ACOUSTICAL CEILING TILE MATERIAL AND ITS ASSOCIATED CEILING GRID SYSTEM. ALL MECHANICAL, ELECTRICAL, SPRINKLER, AND HVAC COORDINATION MUST BE MAINTAINED PER THE CONSTRUCTION DOCUMENTS.

REFER TO REFLECTED CEILING SHEETS AC110-B - GROUND LEVEL REFLECTED CEILING PLAN -AREA B, AC110-C GROUND LEVEL REFLECTED CEILING PLAN -AREA C, AC120-B SECOND LEVEL REFLECTED CEILING PLAN -AREA B AND AC120-C SECOND REFLECTED CEILING PLAN -AREA C.

**ELECTRICAL:**

THERE ARE NO FIXTURE CHANGES FOR THE ROOMS INDICATED IN THE ARCHITECTURAL NARRATIVE UNDER THIS ITEM. THE QUANTITY AND LOCATION OF FIXTURES SHALL REMAIN AS INDICATED. NO SPEAKER, FIRE ALARM DEVICES, OR SECURITY DEVICE LOCATIONS HAVE CHANGED.

**MECHANICAL:**

ALL SUPPLY AND RETURN GRILLES SHALL REMAIN IN THE SAME LOCATIONS.

**FIRE PROTECTION:**

ALL SPRINKLERS SHALL REMAIN IN THE SAME LOCATIONS.



## **ALTERNATE #10 – CARLISLE SURE-FLEX 60 MIL KEE HP IN LIEU OF FIBERTITE 50 MIL KEE ROOFING**

BY: JUSTIN ARCHITECTS, PA.

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE BASIS OF DESIGN FIBERTITE 50MIL XT KEE MEMBRANE, REFERENCED IN SECTION 075416.1 ADHERED KETONE ETHYLENE ESTER (KEE) ROOFING, IS PROPOSED TO BE REPLACED WITH THE CARLISLE SURE-FLEX 60 MIL KEE HP MEMBRANE. THE CARLISLE SURE-FLEX 60 MIL KEE HP MEMBRANE PROVIDES COMPARABLE PERFORMANCE RELATIVE TO THE INSTALLATION CRITERIA OUTLINED IN THE CONSTRUCTION DOCUMENTS, PRODUCT SPECIFICATIONS, AND TO MEET THE WARRANTY REQUIREMENTS PROVIDED BY FIBERTITE.

THIS ALTERNATE MEMBRANE APPLIES TO THE FOLLOWING ROOF SYSTEMS SHOWN IN THE CONTRACT DOCUMENTS:

- COMMUNITY BUILDING
- POOL CABANAS
- SHELTER AND RESTROOMS
- DUGOUTS

THE CARLISLE SURE-FLEX 60 MIL KEE HP MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND PRODUCT PERFORMANCE REQUIREMENTS:

- PROPER SUBSTRATE PREPARATION (CLEAN, DRY, SMOOTH CONDITIONS).
- INSTALLATION OF REQUIRED INSULATION, ADHESIVES, FLASHINGS, AND ACCESSORIES COMPATIBLE WITH THE PVC SYSTEM.
- HEAT-WELDED SEAMS, TERMINATIONS, AND FLASHING INSTALLATION PER APPROVED DETAILS.
- PROTECTION OF THE SYSTEM DURING INSTALLATION AND MAINTAINING THE ROOF WATERTIGHT AT THE END OF EACH DAY.
- THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING COMPLIANCE THROUGH PUBLISHED ENGINEERING LOAD TABLES, TESTING DATA, OR FLORIDA PRODUCT APPROVAL/NOA AS APPLICABLE.

THE SCOPE OF THIS VALUE ENGINEERING ALTERNATE INCLUDES THE COMPLETE INSTALLATION OF THE CARLISLE SURE-FLEX 60 MIL KEE HP MEMBRANE ON ALL AFFECTED ROOF AREAS, PROVIDING COMPARABLE WATERPROOFING, DURABILITY, AND LONG-TERM PERFORMANCE TO THE BASIS OF DESIGN FIBERTITE 50MIL XT KEE SYSTEM AND AS REQUIRED BY THE APPLICABLE NOA. ALL SUPPORTING TECHNICAL DATA, WARRANTIES, AND APPROVALS WILL BE SUBMITTED FOR REVIEW TO CONFIRM COMPLIANCE WITH THE PROJECT REQUIREMENTS.



**ALTERNATE #11 – INSULATED PVC IN LIEU OF CAST-IRON SW PIPING ABOVE GROUND**

BY: *CONSULTING ENGINEERING SERVICES (CES)*

**PLUMBING:**

INSULATED PVC PIPING SHALL BE ALLOWED ABOVE GRADE IN THE INTERIOR OF THE BUILDING IN LIEU OF CAST IRON. SEE SPECIFICATIONS SECTION 221005-1.3 REFERENCED STANDARDS.



**ALTERNATE #12 - 4" THICK STANDARD BROOM FINISH IN LIEU OF 5" THICK SCORED CONCRETE WITH A ROCK SALT FINISH**

BY: JUSTIN ARCHITECTS, PA., & MILLER LEGG & ASSOCIATES

**ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE 5" THICK ROCK SALT-FINISH CONCRETE SIDEWALKS WITH ANGLED SAWCUT PATTERNS, AS SHOWN IN THE BASIS OF DESIGN CONSTRUCTION DOCUMENTS, WILL BE REPLACED WITH 4" THICK STANDARD BROOM-FINISH CONCRETE. THE EXTENTS OF THIS CHANGE ONLY INCLUDE THE ENTRY PLAZA ON THE SOUTH SIDE OF THE BUILDING, REFER TO ITEMS SHOWN ON SHEETS H1.3, H1.4 AND H1.5. JOINTS SHALL BE PROVIDED AS REQUIRED TO MAINTAIN STRUCTURAL INTEGRITY AND PERFORMANCE.

**LANDSCAPE:**

THIS VALUE ENGINEERING PROPOSAL WOULD REPLACE THE 5" THICK SCORED CONCRETE WITH ROCK SALT FINISH LOCATED TO THE SOUTH OF THE BUILDING WITH 4" THICK STANDARD BROOM-FINISH CONCRETE. APPROXIMATELY 10,465 SF OF 5" ROCK SALT-FINISHED CONCRETE (ITEM #4 ON SHEETS H1.4 AND H1.5) WILL BE REPLACED.

**REVISED DRAWINGS:**

- AS100.1 - ALTERNATE - SITE PLAN
- H1.3.1 - ALTERNATE - HARDSCAPE PLANS
- H1.4.1 - ALTERNATE- HARDSCAPE PLANS
- H1.5.1 - ALTERNATE- HARDSCAPE DETAILS



**ALTERNATE #13 - CHANGE ACOUSTICAL CEILING ACT-2 TO ARMSTRONG CALLA #2820 (ALL LIGHTS AT THESE LOCATIONS MUST CHANGE TO 2X2)**

BY: JUSTIN ARCHITECTS, PA & CONSULTING ENGINEERING SERVICES (CES)

**ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE ACOUSTICAL CEILING TILE DESIGNATED AS ACT-2 TECHZONE CALLA CEILING SYSTEM IN THE FINISH SCHEDULE IS PROPOSED TO BE REPLACED WITH THE ARMSTRONG CALLA CEILING SYSTEM IN ALL AREAS WHERE ACT-2 IS CURRENTLY SPECIFIED. THIS CHANGE IN CEILING MATERIAL APPLIES TO THE FOLLOWING ROOMS:

- ROOM 102 - PLAYROOM
- ROOMS 104A & 104B - MULTI-PURPOSE ROOMS
- ROOM 115 - TEEN
- ROOM 116 - ADMIN OFFICES
- ROOM 208B - MULTI-PURPOSE SENIOR B
- ROOM 208C - MULTI-PURPOSE SENIOR C
- ROOM 209 - CONFERENCE
- ROOM 210 - MULTI-PURPOSE SENIOR A
- ROOM 216 - DANCE / AEROBICS
- ROOM 212 - FITNESS

AS PART OF THIS ALTERNATE, THE CEILING GRID SYSTEM ASSOCIATED WITH THE TECHZONE SYSTEM, INCLUDING THE INTERLUDE XL HRC GRID, 2' X 2' TILES, AND ALL RELATED COMPONENTS, WILL BE REMOVED. IT WILL BE REPLACED WITH THE ARMSTRONG SUPRAFINE XL 9/16" GRID SYSTEM, WHICH IS FULLY COMPATIBLE WITH THE STANDARD 2' X 2' CALLA CEILING TILE. ALL GRID COMPONENTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE CALLA MANUFACTURER'S REQUIREMENTS FOR TILE SUPPORT, SUSPENSION SPACING, AND SYSTEM PERFORMANCE. THE CALLA SYSTEM PROVIDES A 30-YEAR CEILING AND GRID WARRANTY, EQUAL TO THE TECHZONE WARRANTY. FOR ADDITIONAL INSTALLATION REQUIREMENTS, REFER TO ACOUSTICAL CEILING CALLA SPECIFICATION 095113.

LIGHTING WITHIN THESE AREAS WILL ALSO BE REVISED AS PART OF THIS VALUE ENGINEERING ITEM. THE LINEAR STRIP LIGHTING WILL BE REMOVED AND REPLACED WITH 2' X 2' LIGHTING FIXTURES. ADDITIONAL INFORMATION REGARDING THE LIGHTING MODIFICATIONS IS INCLUDED IN THE ELECTRICAL NARRATIVE.

ALL MECHANICAL EQUIPMENT, FIRE SPRINKLER HEADS, AND SPEAKER LOCATIONS WILL REMAIN IN GENERALLY THE SAME LOCATIONS SHOWN IN THE BASIS-OF-DESIGN CONSTRUCTION DOCUMENTS. REFER TO REFLECTED CEILING SHEETS AC110-B - GROUND LEVEL REFLECTED CEILING PLAN -AREA B, AC110-C GROUND LEVEL REFLECTED CEILING PLAN -AREA C, AC120-B SECOND LEVEL REFLECTED CEILING PLAN -AREA B AND AC120-C SECOND REFLECTED CEILING PLAN -AREA C.

**ELECTRICAL:**

SEE ARCHITECTURAL NARRATIVE FOR ROOM CHANGES AFFECTED BY THIS ITEM. ALSO SEE BELOW:

- CHANGE THE LINEAR LIGHT FIXTURES FROM HP-6-R-D-6'-H-835-96LG-277-SC-FC-10%-C\*\*-FE-SW TO H.E. WILLIAMS MODEL LPT-22-L54/835-SAF12095-DIM-UNV.
- NEW 2X2 LIGHT FIXTURE TO BE PLACED NEAR THE SAME LOCATION AS THE PREVIOUS LINEAR FIXTURES.
- QUANTITY OF SPEAKERS (WHERE APPLICABLE) SHALL REMAIN THE SAME.

**MECHANICAL:**

ALL SUPPLY AND RETURN GRILLES SHALL REMAIN IN THE SAME LOCATIONS.

**FIRE PROTECTION:**

ALL SPRINKLERS SHALL REMAIN IN THE SAME LOCATIONS.



#### **ALTERNATE #14 - UTILIZE LESS EXPENSIVE TIMING SYSTEM AT COMPETITION POOL**

BY: COUNSILMAN-HUNSAKER & ASSOCIATES

#### **AQUATICS:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, TWO ALTERNATE TIMING SYSTEM OPTIONS TO THE BASIS-OF-DESIGN COLORADO TIMING GEN7 SYSTEM HAVE BEEN IDENTIFIED FOR EVALUATION. THE GEN7 SYSTEM, WHICH INCLUDES A FULL-COLOR VIDEO SCOREBOARD AND A FULLY AUTOMATIC TIMING PLATFORM, REMAINS THE BASIS OF DESIGN. THE FOLLOWING OPTIONS PROVIDE DIFFERENT LEVELS OF AUTOMATION, FUNCTIONAL CAPABILITIES, AND COST. LINE-ITEM PRICING SHALL BE PROVIDED FOR EACH OPTION.

#### **OPTION 1 – COLORADO TIMING SYSTEMS (CTS) DOLPHIN SYSTEM WITH OTTER SCOREBOARD**

THE COLORADO TIMING DOLPHIN SYSTEM IS A WIRELESS SEMI-AUTOMATIC TIMING PLATFORM THAT UTILIZES WIRELESS STOPWATCHES SYNCHRONIZED BY A CENTRAL BASE UNIT AND STARTER. THE SYSTEM COMMUNICATES DIRECTLY WITH THE CTS “OTTER” SCOREBOARD, WHICH INCLUDES A BUILT-IN WIRELESS ADAPTER OPERATING ON A CERTIFIED RADIO FREQUENCY. THE OTTER SCOREBOARD IS AVAILABLE IN BOTH PORTABLE AND PERMANENT CONFIGURATIONS AND CAN BE USED WITH EITHER WIRED OR WIRELESS COMMUNICATION PROTOCOLS.

SYSTEM COMPONENTS INCLUDE:

- ELECTRONIC START UNIT
- DOLPHIN WIRELESS STOPWATCHES
- BASE STATION FOR SYNCHRONIZATION
- COMPUTER INTEGRATION FOR MEET MANAGEMENT
- OTTER LED SCOREBOARD DISPLAY



## **OPTION 2 – NEVCO / ALGE-TIMING SYSTEMS**

NEVCO PROVIDES AQUATIC TIMING AND SCORING SOLUTIONS THROUGH ITS PARTNERSHIP WITH ALGE-TIMING, WHICH MANUFACTURES TIMING SYSTEMS USED FOR BOTH TRAINING AND COMPETITIVE MEETS. ALGE-TIMING EQUIPMENT IS AVAILABLE IN BOTH SEMI-AUTOMATIC AND FULLY AUTOMATIC CONFIGURATIONS AND MAY BE INSTALLED IN INDOOR OR OUTDOOR ENVIRONMENTS.

### **SYSTEM TYPES:**

- SEMI-AUTOMATIC TIMING SYSTEM  
REQUIRES A TIMEKEEPER TO MANUALLY TRIGGER A BUTTON IN RESPONSE TO A SWIMMER TOUCHING THE WALL. SYSTEMS ARE AVAILABLE IN WIRED OR WIRELESS CONFIGURATIONS AND INCLUDE START SIGNAL INTERFACES, TIMING BUTTONS, AND COMPUTER SOFTWARE FOR DATA PROCESSING.
- FULLY AUTOMATIC TIMING SYSTEM  
UTILIZES TOUCHPADS INSTALLED AT EACH LANE TERMINATION POINT. TOUCHPADS AUTOMATICALLY INITIATE AND TERMINATE TIMING FUNCTIONS WHEN A SWIMMER MAKES CONTACT WITH THE PAD. THIS SYSTEM REDUCES MANUAL INPUT, INCREASES TIMING ACCURACY, AND IS MORE COMPARABLE TO THE BASIS-OF-DESIGN GEN7 SYSTEM IN TERMS OF FUNCTIONAL PRECISION.

### **GENERAL NOTE:**

BELOW-DECK CONDUIT AND RACEWAY INSTALLED FOR THE BASIS-OF-DESIGN GEN7 SYSTEM SHALL REMAIN TO ALLOW FOR FUTURE UPGRADE TO A FULLY AUTOMATIC GEN7 SYSTEM IF DESIRED BY THE OWNER. COLORADO TIMING SYSTEMS REMAIN THE MOST WIDELY USED AND INDUSTRY-STANDARD PROVIDER FOR COMPETITION-LEVEL AQUATIC FACILITIES. FURTHER TECHNICAL REVIEW AND PRICING WILL BE REQUIRED IF A NON-BASIS DESIGN SYSTEM IS SELECTED.



**ALTERNATE #15 - INSULATED PVC IN LIEU OF CAST IRON SANITARY SEWER PIPING ABOVE GRADE**

BY: *CONSULTING ENGINEERING SERVICES (CES)*

**PLUMBING:**

INSULATED PVC PIPING SHALL BE ALLOWED ABOVE GRADE IN THE INTERIOR OF THE BUILDING IN LIEU OF CAST IRON. SEE SPECIFICATIONS SECTION 221005-1.3 FOR REFERENCED STANDARDS.



## **ALTERNATE #16 - JOHN MANVILLE PVC 60 MIL IN LIEU OF FIBERTITE 50 MIL KEE ROOFING**

BY: JUSTIN ARCHITECTS, PA.

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE BASIS OF DESIGN FIBERTITE 50MIL XT KEE MEMBRANE, REFERENCED IN SECTION 075416.1 ADHERED KETONE ETHYLENE ESTER (KEE) ROOFING, IS PROPOSED TO BE REPLACED WITH THE JOHNS MANVILLE PVC 60MIL MEMBRANE. THE PVC 60MIL MEMBRANE PROVIDES COMPARABLE PERFORMANCE RELATIVE TO THE INSTALLATION CRITERIA OUTLINED IN THE CONSTRUCTION DOCUMENTS AND MEETS THE SAME 25-YEAR WARRANTY REQUIREMENTS PROVIDED BY FIBERTITE.

THIS ALTERNATE MEMBRANE APPLIES TO THE FOLLOWING ROOF SYSTEMS SHOWN IN THE CONTRACT DOCUMENTS:

- COMMUNITY BUILDING
- POOL CABANAS
- SHELTER AND RESTROOMS
- DUGOUTS

THE JOHNS MANVILLE PVC 60MIL MEMBRANE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND PRODUCT PERFORMANCE REQUIREMENTS:

- PROPER SUBSTRATE PREPARATION (CLEAN, DRY, SMOOTH CONDITIONS).
- INSTALLATION OF REQUIRED INSULATION, ADHESIVES, FLASHINGS, AND ACCESSORIES COMPATIBLE WITH THE PVC SYSTEM.
- HEAT-WELDED SEAMS, TERMINATIONS, AND FLASHING INSTALLATION PER APPROVED DETAILS.
- PROTECTION OF THE SYSTEM DURING INSTALLATION AND MAINTAINING THE ROOF WATERTIGHT AT THE END OF EACH DAY.
- THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING COMPLIANCE THROUGH PUBLISHED ENGINEERING LOAD TABLES, TESTING DATA, OR FLORIDA PRODUCT APPROVAL/NOA AS APPLICABLE.

THE SCOPE OF THIS VALUE ENGINEERING ALTERNATE INCLUDES THE COMPLETE INSTALLATION OF THE JOHNS MANVILLE PVC 60MIL MEMBRANE ON ALL AFFECTED ROOF AREAS, PROVIDING COMPARABLE WATERPROOFING, DURABILITY, AND LONG-TERM PERFORMANCE TO THE BASIS OF DESIGN FIBERTITE 50MIL XT KEE SYSTEM AND AS REQUIRED BY THE APPLICABLE NOA. ALL SUPPORTING TECHNICAL DATA, WARRANTIES, AND APPROVALS WILL BE SUBMITTED FOR REVIEW TO CONFIRM COMPLIANCE WITH THE PROJECT REQUIREMENTS.



**ALTERNATE #17 - CHANGE SPECIFIED GLASS FABRICATOR FROM VIRACon TO VITRO AND ALUMINUM STOREFRONT FROM YKK TO ENVIALUM**

BY: JUSTIN ARCHITECTS, PA.

**ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, FOLLOWING CHANGE IS PROPOSED.

- GLAZING MANUFACTURER: CHANGE FROM VIRACon TO VITRO AS A COMPARABLE ALTERNATE.
- EXTERIOR STOREFRONT MANUFACTURER: CHANGE FROM YKK AP AMERICA INC. TO ENVIRALUM INDUSTRIES INC. AS A COMPARABLE ALTERNATE.
- INTERIOR STOREFRONT MANUFACTURER: CHANGE FROM YKK AP AMERICA INC. TO ENVIRALUM INDUSTRIES INC. AS A COMPARABLE ALTERNATE
- LINE-ITEM PRICING SHALL BE PROVIDED FOR EACH OPTION.

THE BASIS OF DESIGN STOREFRONT PRODUCT, YKK AP YHS 50 FS IMPACT RESISTANT AND BLAST MITIGATION STOREFRONT SYSTEM WOULD BE REPLACED WITH THE ENVIRALUM SERIES ENV-450 ALUMINUM WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT AND THE ENVIRALUM SERIES ENV-750 WINDOW WALL SYSTEM LARGE & SMALL MISSILE IMPACT. THESE PROPOSED SYSTEMS SHALL COMPLY WITH THE WIND DESIGN PRESSURES AS NOTED ON SHEET S-102 – WIND DESIGN DATA AND LOAD SCHEDULE.

THE SERIES ENV-450 SYSTEM IS APPLICABLE TO OPENINGS THAT HAVE A MAXIMUM HEIGHT OF 12'-0". DUE TO THE LIMITATIONS OF THE ENV-450 SYSTEM, THE ENV-750 SYSTEM IS APPLICABLE TO OPENINGS OVER 12'-0", WITH A MAXIMUM HEIGHT OF 16'-0" BOTH SYSTEMS SHALL BE FRONT GLAZED ALIGNED SO THAT FROM THE EXTERIOR, AETHETICALLY THE GLAZING IS LINED UP AND APEARS AS A SINGLE COHESIVE GLAZING SYSTEM. THE FINISH OF THE SYSTEM SHALL BE CLEAR ANODIZED.

REFER TO THE CHART BELOW FOR THE DESIGNATIONS CORRESPONDING TO EACH CURTAIN WALL TYPE AS INDICATED ON SHEETS A-600, A-601, AND A-602 – EXTERIOR GLAZING ELEVATIONS. ANY ADDITIONAL MISCELLANEOUS METALS REQUIRED TO PROPERLY INTEGRATE THE PROPOSED ENVIRALUM SYSTEM INTO THE DESIGN SHALL BE INCLUDED WITHIN THIS ALTERNATE, AS REQUIRED BY THE APPLICABLE NOA. FURTHERMORE, INCLUDE ANY ADDITIONAL MISCELLANEOUS STRUCTURAL COMPONENTS NECESSARY TO SUPPORT LARGER CURTAIN WALL ASSEMBLIES, SUCH AS CW-27, WHICH HAS A HEIGHT OF 23'-4".

THE ENVIRALUM MANUFACTURE MUST ALSO COMPLY WITH PART 1 AND 3 OF THE SPECIFICATION AND INTEGRATE ANY MANUFACTURE SPECIFIC REQUIREMENTS INTO THE PROJECT. THE PRODUCT WARRANTY MUST MEET THE MINIMUM REQUIREMENT AS NOTED ON SPECIFICATION SECTION 084313 ALUMINUM FRAMED ENTRANCES AND STOREFRONTS. ALSO, COMPLY WITH SECTION 1.04 QUALITY ASSURANCE SECTION INCLUDING INSTALLER QUALIFICATIONS AND MANUFACTURER QUALIFICATIONS AND THAT THIS COMPONENT SHALL HAVE A MOCK-UP.

THE DOOR SYSTEM SHALL BE REVISED TO THE ENVIRALUM SERIES ENV-350 ALUMINUM ENTRANCE DOOR SYSTEM LARGE & SMALL MISSILE IMPACT TO BE COMPATIBLE WITH THE ENV-450 AND ENV-750 SYSTEM. THE DOOR HARDWARE COMPONENTS SHALL BE EQUIVALENT TO THE BASIS OF DESIGN PRODUCT TO REMAIN WITH THE DESIGN INTENT.

NUMBER	MODEL	NUMBER	MODEL
CW-1	ENV-450	CW-28	ENV-450
CW-2	ENV-450	CW-29	ENV-750
CW-3	ENV-750	CW-30	ENV-450
CW-4	ENV-450	CW-31	ENV-750
CW-5	ENV-450	CW-32	ENV-450
CW-6	ENV-750	CW-34	ENV-450
CW-7	ENV-450	CW-35	ENV-450
CW-8	ENV-450	CW-36	ENV-750
CW-9	ENV-750	CW-37	ENV-450
CW-10	ENV-450	CW-38	ENV-750
CW-11	ENV-750	CW-39	ENV-450
CW-12	ENV-450	CW-40	ENV-4500
CW-13	ENV-450	CW-41	ENV-4500
CW-14	ENV-450	CW-42	ENV-4500
CW-15	ENV-450	CW-43	ENV-4500
CW-16	ENV-450	CW-44	ENV-4500
CW-17	ENV-450	CW-45	ENV-4500
CW-18	ENV-450	CW-46	ENV-4500
CW-19	ENV-450	CW-47	ENV-4500
CW-20	ENV-450	CW-48	ENV-4500
CW-21	ENV-450	CW-49	ENV-4500
CW-22	ENV-450	CW-50	ENV-4500
CW-23	ENV-450	CW-51	ENV-4500
CW-24	ENV-450	CW-52	ENV-4500
CW-25	ENV-450	CW-53	ENV-4500
CW-26	ENV-450	CW-54	ENV-4500
CW-27	ENV-750	CW-55	ENV-450

 EXTERIOR  
ENV-450

 EXTERIOR  
ENV-750

 INTERIOR  
ENV-4500

### **ALTERNATE #17A - CHANGE SPECIFIED EXTERIOR GLASS FABRICATOR FROM VIRACon TO VITRO**

THE BASIS OF DESIGN GLAZING PRODUCT, VIRACon VE1-42 IMPACT-RESISTANT GLAZING SYSTEM, WOULD BE REPLACED WITH THE VITRO SOLARBAN R67 ON OPTIBLUE GLASS. THIS SYSTEM SHALL COMPLY WITH THE WIND DESIGN PRESSURES AS NOTED ON SHEET S-102 – WIND DESIGN DATA AND LOAD SCHEDULE.

THE PROPOSED VITRO GLAZING OPTION HAS BEEN EVALUATED FOR THERMAL AND SOLAR PERFORMANCE BASED ON THE APPROVED INSULATED-LAMINATED MAKEUP FOR THE ALTERNATE ENV-450 AND ENV-750 EXTERIOR WINDOW WALL SYSTEMS. THE IMPACT-RATED ASSEMBLY CONSISTS OF:

- 6MM OPTIBLUE GLASS + .090 PVB INTERLAYER + 6MM CLEAR GLASS COATED WITH SOLARBAN R67 ON SURFACE #4 +  $\frac{1}{2}$ " AIR SPACE + 6MM CLEAR GLASS.

THIS CONFIGURATION HAS BEEN REVIEWED BY THE MANUFACTURER AND CONFIRMED TO BE COMPATIBLE WITH BOTH ALTERNATE PROPOSED EXTERIOR STOREFRONT SYSTEMS.

THE VITRO MANUFACTURER MUST ALSO COMPLY WITH PART 1 AND PART 3 OF THE SPECIFICATION AND INCORPORATE ANY MANUFACTURER-SPECIFIC REQUIREMENTS INTO THE PROJECT AND AS REQUIRED BY THE APPLICABLE NOA. THE PRODUCT WARRANTY MUST MEET THE MINIMUM REQUIREMENTS NOTED IN SPECIFICATION SECTION 088000 – GLAZING. ALSO COMPLY WITH SECTION 1.04 – QUALITY ASSURANCE, INCLUDING INSTALLER QUALIFICATIONS, MANUFACTURER QUALIFICATIONS, AND THE REQUIREMENT FOR A MOCK-UP FOR ARCHITECT APPROVAL.

REFER TO EXTERIOR GLAZING ELEVATIONS ON SHEETS A-600, A-601, AND A-602 FOR MORE INFORMATION.

### **ALTERNATE #17B - CHANGE SPECIFIED INTERIOR STOREFRONT SYSTEM FABRICATOR FROM YKK TO ENVIALUM**

THE BASIS OF DESIGN INTERIOR STOREFRONT PRODUCT, YKK AP YHS 50 STOREFRONT SYSTEM, WOULD BE REPLACED WITH THE ENVIRALUM SERIES ENV-4500 CENTER FLUSH-GLAZED ALUMINUM WINDOW WALL SYSTEM FOR ALL INTERIOR STOREFRONT SYSTEM CONDITIONS. THE PROPOSED INTERIOR DOOR SYSTEM SHALL BE REVISED TO THE ENVIRALUM SERIES ENV-350 MEDIUM STILE ALUMINUM ENTRANCE DOOR, FULLY COMPATIBLE WITH THE ENV-4500 SYSTEM. ALL DOOR HARDWARE COMPONENTS SHALL BE EQUIVALENT TO THE BASIS OF DESIGN TO MAINTAIN THE ORIGINAL DESIGN INTENT.

THE ENV-4500 SYSTEM IS A CENTER FLUSH-GLAZED, NON-IMPACT WINDOW WALL SYSTEM SUITABLE FOR INTERIOR APPLICATIONS. THIS SYSTEM SHALL BE USED AT ALL INTERIOR STOREFRONT LOCATIONS AND SHALL ALIGN WITH THE ARCHITECTURAL INTENT FOR A CONSISTENT AND COHESIVE GLAZING APPEARANCE THROUGHOUT THE INTERIOR SPACES. THE FINISH OF THE SYSTEM SHALL MATCH THE PROJECT STANDARD, CLEAR ANODIZED, UNLESS OTHERWISE NOTED.

REFER TO THE CHART ABOVE FOR THE DESIGNATIONS CORRESPONDING TO EACH CURTAIN WALL TYPE AS INDICATED ON SHEETS A-603 AND A-604 – INTERIOR GLAZING ELEVATIONS. ANY ADDITIONAL MISCELLANEOUS METALS REQUIRED TO PROPERLY INTEGRATE THE PROPOSED ENVIRALUM SYSTEM INTO THE DESIGN SHALL BE INCLUDED WITHIN THIS ALTERNATE. FURTHERMORE, INCLUDE ANY ADDITIONAL MISCELLANEOUS STRUCTURAL COMPONENTS NECESSARY TO SUPPORT LARGER OR CONTINUOUS INTERIOR CURTAIN WALL ASSEMBLIES.

THE ENVIRALUM MANUFACTURER MUST ALSO COMPLY WITH PART 1 AND PART 3 OF THE SPECIFICATION AND INTEGRATE ANY MANUFACTURER-SPECIFIC REQUIREMENTS INTO THE PROJECT. THE PRODUCT WARRANTY MUST MEET THE MINIMUM REQUIREMENTS OF SPECIFICATION SECTION 084313 – ALUMINUM FRAMED ENTRANCES AND STOREFRONTS. THE SYSTEM SHALL ALSO COMPLY WITH SECTION 1.04 – QUALITY ASSURANCE, INCLUDING BOTH INSTALLER QUALIFICATIONS AND MANUFACTURER QUALIFICATIONS. THIS COMPONENT SHALL REQUIRE A MOCK-UP FOR ARCHITECT REVIEW AND APPROVAL.



## **ALTERNATE #18 - MODIFY INTERIOR LIGHTING FIXTURES**

BY: *CONSULTING ENGINEERING SERVICES (CES)*

### **ARCHITECTURE:**

SEE BELOW FOR FIXTURE TYPE CHANGES THAT WILL QUANTIFY COST SAVINGS. QUANTITY REMAINS THE SAME.

### **VALUE ENGINEERING CHANGES**

TYPE	MANUFACTURER	NEW MODEL NUMBER
A	H.E. WILLIAMS	4DR-TL-L20/835-DIM-UNV-OW-OF-CS-WH-N-F1
A2	H.E. WILLIAMS	4DR-TL-L20/835-DIM-UNV-OW-OF-CS-WH-N-F1-WET/CC
B1	H.E. WILLIAMS	LPT-22-L54/835-SAF12095-DIM-UNV
M	BINA	A-CYL-RD-60W-30K-60D-BK-B-D10-SF

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### **BASIS OF DESIGN**

TYPE	MANUFACTURER	BASIS OF DESIGN MODEL NUMBER
A	INTENSE	SD6DR-L3-35-D101-27-WF/IC630-C-SFW/I100
A2	INTENSE	SD6DR-L3-35-D101-27-WF/IC620-C-SFW/I100
B1	FINELITE	HP-6-R-D-6'-H-835-96LG-277-SC-FC-10%-C**-FE-SW
M	BINA	PS9-H0-30K-100

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### **ALTERNATE #19 - SIMPLIFY LANDSCAPE PACKAGE**

*BY: MILLER LEGG & ASSOCIATES*

#### **LANDSCAPE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE LANDSCAPE PACKAGE WILL BE SIMPLIFIED FOR COST EFFECTIVENESS WHILE MAINTAINING THE MINIMUM CODE STANDARDS REQUIRED. BISMARCK PALMS, ROYAL PALMS, AND FOXTAIL PALMS, TOTALING 23 PALMS, ARE TO BE REPLACED WITH SABAL PALMS. THE 224 SF OF PERENNIAL PEANUT (ARA) SHOWN ON SHEET L1.4 IS TO BE REPLACED WITH SOD TO MATCH THE SURROUNDING AREA. THE CONTRACTOR MAY PROVIDE RESPECIFIED BRIDAL VEIL TREES AND LIVE OAK TREES AS AN ALTERNATE, WITH SIZING THAT MEETS CODE REQUIREMENTS AND COMPLIES WITH THE "FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS," GRADE FLORIDA #1 OR BETTER.



## **ALTERNATE #20 - CHANGE ACOUSTICAL BAFFLE CEILING ACT-3 TO ARMSTRONG SOUNDSCAPE BAFFLES**

BY: JUSTIN ARCHITECTS, PA.

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE ACOUSTICAL BAFFLE SYSTEM DESIGNATED IN THE BASIS OF DESIGN AS CERTAINTED ARCHITECTURAL ECOPHON SOLO BAFFLE IS PROPOSED TO BE REPLACED WITH THE ARMSTRONG SOUNDSCAPE BAFFLES IN ALL AREAS WHERE THE SOLO BAFFLES ARE CURRENTLY SPECIFIED. THIS CHANGE APPLIES TO THE FOLLOWING ROOMS:

- COMMONS 100
- CORRIDOR 200
- CORRIDOR 200B
- CORRIDOR 200C

THE ARMSTRONG ALTERNATE SYSTEM PROVIDES COMPARABLE ACOUSTICAL PERFORMANCE AND WILL MATCH THE DESIGN INTENT OF THE PATTERN SHOWN IN THE BASIS OF DESIGN THROUGH THE USE OF CUSTOM BAFFLE LENGTHS. THE ARMSTRONG SOUNDSCAPE BAFFLES SHALL HAVE THE FOLLOWING CHARACTERISTICS:

- **BAFFLE HEIGHT:** 10"
- **BAFFLE THICKNESS:** 2"
- **BAFFLE LENGTH:** VARIES – CUSTOM LENGTHS TO MATCH THE DESIGN PATTERN
- **SPACING:** 12" ON CENTER
- **MOUNTING METHOD:** DIRECT-TO-GRID SUSPENSION SYSTEM USING PRELUDE XL 15/16" HEAVY DUTY GRID

THE ALTERNATE GRID AND SUSPENSION COMPONENTS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE ARMSTRONG MANUFACTURER'S REQUIREMENTS FOR SUPPORT, SPACING, AND SYSTEM PERFORMANCE. THE SOUNDSCAPE SYSTEM PROVIDES A MANUFACTURER'S WARRANTY COMPARABLE TO THE BASIS OF DESIGN BAFFLE SYSTEM.

ALL LIGHTING FIXTURE LAYOUTS, HVAC COMPONENTS AND SPECIFICATIONS WITHIN THESE CEILING AREAS REMAIN UNCHANGED. THE SCOPE OF THIS VALUE ENGINEERING ITEM IS LIMITED SOLELY TO THE SUBSTITUTION OF THE BAFFLE CEILING SYSTEM AND ITS ASSOCIATED CEILING GRID SYSTEM. REFER TO REFLECTED CEILING SHEETS AC110-B - GROUND LEVEL REFLECTED CEILING PLAN -AREA B, AC110-C GROUND LEVEL REFLECTED CEILING PLAN -AREA C, AC120-B SECOND LEVEL REFLECTED CEILING PLAN -AREA B AND AC120-C SECOND REFLECTED CEILING PLAN -AREA C.

**ELECTRICAL:**

THERE ARE NO FIXTURE CHANGES FOR THE ROOMS INDICATED IN THE ARCHITECTURAL NARRATIVE UNDER THIS ITEM. THE QUANTITY AND LOCATION OF FIXTURES SHALL REMAIN AS INDICATED. NO SPEAKER, FIRE ALARM DEVICES, OR SECURITY DEVICE LOCATIONS HAVE CHANGED.

**MECHANICAL:**

ALL SUPPLY AND RETURN GRILLES SHALL REMAIN IN THE SAME LOCATIONS.

**FIRE PROTECTION:**

ALL SPRINKLERS SHALL REMAIN IN THE SAME LOCATIONS.



## **ALTERNATE #21 - FIBERTITE 45 MIL KEE ROOFING IN LIEU OF FIBERTITE 50 MIL KEE ROOFING**

BY: JUSTIN ARCHITECTS, PA.

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE BASIS OF DESIGN FIBERTITE 50MIL XT KEE MEMBRANE, REFERENCED IN SECTION 075416.1 ADHERED KETONE ETHYLENE ESTER (KEE) ROOFING, IS PROPOSED TO BE REPLACED WITH THE ALTERNATE FIBERTITE 45MIL SM KEE MEMBRANE. THE FIBERTITE 45MIL SM KEE MEMBRANE PROVIDES COMPARABLE PERFORMANCE RELATIVE TO THE INSTALLATION CRITERIA OUTLINED IN THE CONSTRUCTION DOCUMENTS AND MEETS THE SAME 25-YEAR WARRANTY REQUIREMENTS PROVIDED BY THE BASIS OF DESIGN SYSTEM.

THIS ALTERNATE MEMBRANE APPLIES TO THE FOLLOWING ROOF SYSTEMS SHOWN IN THE CONTRACT DOCUMENTS:

- COMMUNITY BUILDING
- POOL CABANAS
- SHELTER AND RESTROOMS
- DUGOUTS

THE FIBERTITE 45MIL SM KEE MEMBRANE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS REQUIRED BY THE APPLICABLE NOA, INCLUDING SUBSTRATE PREPARATION, MEMBRANE INSTALLATION, FLASHING INTEGRATION, AND ALL OTHER REQUIRED PROCEDURES NECESSARY TO ACHIEVE PROPER SYSTEM PERFORMANCE AND FULL COMPLIANCE WITH THE 25-YEAR MANUFACTURER'S WARRANTY. REFER TO ROOF PLAN SHEET A-130 AND ROOF DETAIL SHEETS A-515, A-516, A-530, AND A-531 FOR APPLICABLE ROOF CONDITIONS AND INTERFACE REQUIREMENTS.

THE SCOPE OF THIS VALUE ENGINEERING ALTERNATE INCLUDES THE COMPLETE APPLICATION OF THE FIBERTITE 45MIL SM KEE MEMBRANE ACROSS THE AFFECTED ROOF AREAS, PROVIDING COMPARABLE WATERPROOFING, DURABILITY, AND LONG-TERM PROTECTION COMPARED TO THE BASIS OF DESIGN FIBERTITE 50MIL XT KEE SYSTEM. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING COMPLIANCE THROUGH PUBLISHED ENGINEERING LOAD TABLES, TESTING DATA, OR FLORIDA PRODUCT APPROVAL/NOA AS APPLICABLE.



**ALTERNATE #22 - REDUCE GYMNASIUM SCOREBOARDS FROM FOUR TO TWO AT GYMNASIUM**

BY: *CONSULTING ENGINEERING SERVICES (CES)*

**ELECTRICAL:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, TWO OF THE FOUR PROPOSED SCOREBOARDS INSIDE THE GYMNASIUM, THOSE LOCATED ON THE NORTH AND SOUTH WALLS, ARE TO BE REMOVED. SEE REVISED GROUND LEVEL POWER PLAN – NORTH SHEET EP101 FOR THE REMAINING SCOREBOARD LOCATIONS, WHICH ALIGN WITH THE LOCATIONS PROVIDED BY THE ARCHITECT.

**REVISED DRAWINGS:**

- EP101.1 – ALTERNATE - GROUND LEVEL POWER PLAN - NORTH



**ALTERNATE #23 - CHANGE PLAYGROUND SURFACING FROM POURED IN PLACE TO SYNTHETIC TURF**  
BY: MILLER LEGG & ASSOCIATES

**LANDSCAPE:**

THIS VALUE ENGINEERING PROPOSAL WOULD REPLACE THE POURED-IN-PLACE RUBBERIZED SURFACING AT THE PLAYGROUNDS WITH ARTIFICIAL TURF, ACCOUNTING FOR THE SAME COVERAGE. THE ARTIFICIAL TURF REPLACEMENT SHALL BE SUBMITTED FOR THE LANDSCAPE ARCHITECT'S REVIEW AND THE CITY'S APPROVAL. ARTIFICIAL TURF INSTALLATION SHALL MEET ALL SAFETY AND FALL-PROTECTION STANDARDS PER THE PLAYGROUND MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE ASTM STANDARDS.



## **ALTERNATE #24 - PAC-CLAD SNAP-CLAD METAL ROOF PANEL IN LIEU OF GARLAND MECHANICALLY SEAMED METAL ROOF PANEL**

BY: JUSTIN ARCHITECTS, PA.

### **ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE FOLLOWING CHANGE IS PROPOSED.

- CHANGE THE METAL ROOF PANELS FROM GARLAND MECHANICALLY SEAMED METAL ROOF PANEL TO PAC-CLAD SNAP-CLAD METAL ROOF PANEL.

THIS PROPOSED SUBSTITUTION APPLIES EXCLUSIVELY TO THE THREE (3) INDEPENDENT 16'-10" X 16'-10" ROOF PAVILIONS LOCATED BETWEEN TEDDY'S FIELD AND THE LITTLE LEAGUE FIELD. THE PROPOSED PAC-CLAD SYSTEM CONSISTS OF SNAP-CLAD PROFILE METAL ROOF PANELS, 24-GAUGE, WITH A SMOOTH, FACTORY-FINISHED PANEL SURFACE CONSISTENT WITH PETERSEN'S STANDARD COLOR OFFERINGS AND COATING OPTIONS.

### **PRODUCT PERFORMANCE REQUIREMENTS:**

- WEATHERTIGHTNESS: A FULL MANUFACTURER-BACKED WEATHERTIGHTNESS WARRANTY SHALL BE INCLUDED AS PART OF THIS SUBSTITUTION TO ENSURE COMPLIANCE WITH LONG-TERM PERFORMANCE EXPECTATIONS OF THE OWNER.
- WIND UPLIFT PERFORMANCE: THE PAC-CLAD SNAP-CLAD SYSTEM HAS BEEN EVALUATED AND TO MEET OR EXCEED THE REQUIRED WIND LOAD DESIGN PRESSURES IN ACCORDANCE WITH THE PROJECT'S STRUCTURAL DESIGN CRITERIA AND THE GOVERNING BUILDING CODE. THE SYSTEM SHALL COMPLY WITH THE WIND DESIGN PRESSURES AS NOTED ON SHEET S-102 – WIND DESIGN DATA AND LOAD SCHEDULE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION DEMONSTRATING COMPLIANCE THROUGH PUBLISHED ENGINEERING LOAD TABLES, TESTING DATA, OR FLORIDA PRODUCT APPROVAL/NOA AS APPLICABLE.
- COMPATIBILITY & TRANSITIONS: ALL TRIM COMPONENTS, EDGE FLASHINGS, UNDERLAYMENT, FASTENERS, AND ACCESSORIES SHALL BE FULLY COMPATIBLE WITH THE PAC-CLAD SYSTEM. ANY MODIFICATIONS REQUIRED AT THE EAVES, RIDGES, HIPS, OR ADJACENT CONSTRUCTION ELEMENTS SHALL BE INCLUDED WITHIN THIS VALUE ENGINEERING PROPOSAL.

THIS VALUE ENGINEERING PROPOSAL MAINTAINS THE DESIGN INTENT, VISUAL AESTHETIC, AND PERFORMANCE CRITERIA OF THE ORIGINAL SPECIFICATION WHILE PROVIDING A COST-EFFECTIVE ALTERNATIVE THAT MEETS ALL REQUIRED PROJECT STANDARDS. ALL SUPPORTING TECHNICAL DATA, WARRANTIES, AND APPROVALS WILL BE SUBMITTED FOR REVIEW TO CONFIRM COMPLIANCE WITH THE PROJECT REQUIREMENTS.



**ALTERNATE #25 - INSTALL 5/8" HIGH ABUSE GYPSUM WALL BOARD UP TO 8' AFF IN LIEU OF 5/8"  
IMPACT RESISTANT GYPSUM WALL BOARD**

BY: JUSTIN ARCHITECTS, PA.

**ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE BASIS OF DESIGN GOLD BOND 5/8" IMPACT-RESISTANT GYPSUM BOARD IS PROPOSED TO BE REPLACED WITH THE ALTERNATE GOLD BOND 5/8" HI-ABUSE GYPSUM BOARD. THE HI-ABUSE GYPSUM BOARD PROVIDES SIMILAR PERFORMANCE; HOWEVER, IT IS ONLY APPROPRIATE FOR SELECT INTERIOR LOCATIONS AS LISTED BELOW.

ACCEPTED LOCATIONS FOR HI-ABUSE GYPSUM BOARD ALTERNATE

- ROOM 102 – PLAYROOM
- ROOM 120 – AFTERSCHOOL CARE
- ROOM 204 – MULTIPURPOSE ROOM

THE ALTERNATE HI-ABUSE GYPSUM BOARD IS REJECTED AT THE GYMNASIUM BECAUSE THE IMPACT-RESISTANT GYPSUM BOARD INCORPORATES A FIBER-REINFORCED CORE, ENHANCED FACER DURABILITY, AND GREATER RESISTANCE TO PROJECTILE FORCES, WHICH ARE REQUIRED FOR THIS HIGH-IMPACT ENVIRONMENT. THE HI-ABUSE GYPSUM BOARD ALTERNATE SHALL BE INSTALLED IN ACCORDANCE WITH GYPSUM BOARD SPECIFICATION 092900. REFER TO INTERIOR ELEVATION SHEET AI400, INTERIOR ELEVATION SHEET AI401, INTERIOR ELEVATION SHEET AI403, AND INTERIOR ELEVATION SHEET AI404 FOR LOCATIONS AND HEIGHTS REQUIRED FOR THE INSTALLATION OF THE HI-ABUSE GYPSUM BOARD.



**ALTERNATE #26 - CPVC IN LIEU OF COPPER DOMESTIC WATER LINES ABOVE GRADE**

BY: *CONSULTING ENGINEERING SERVICES (CES)*

**PLUMBING:**

CPVC DOMESTIC WATER PIPING SHALL BE ALLOWED ABOVE GRADE IN THE INTERIOR OF THE BUILDING IN LIEU OF COPPER. SEE SPECIFICATIONS SECTION 221005-1.3 FOR REFERENCED STANDARDS.



**ALTERNATE #27 - CHANGE LUXURY VINYL TILE LVT-1 TO MILLIKEN FORTIFIED FOUNDATIONS OR  
MILLIKEN LOCAL MEASURE**

BY: JUSTIN ARCHITECTS, PA.

**ARCHITECTURE:**

AS PART OF THIS VALUE ENGINEERING PROPOSAL, THE BASIS OF DESIGN TARKETT LVT-1 CONTOUR COLLECTION 4655 DUNE CREST AND TARKETT VCT-1 VCT II 556 SANDSTONE ARE PROPOSED TO BE REPLACED WITH THE ALTERNATE MILLIKEN LVT LOCAL MEASURE VIS257 SEA SALT AND MILLIKEN LVT FORTIFIED FOUNDATIONS 2.5 MIN165 MINERAL STRATUS (VCT ALTERNATE). USE OF THESE ALTERNATE FLOORING MATERIALS IS LIMITED TO THE ROOMS LISTED BELOW, AS INDICATED IN THE FINISH SCHEDULE ON SHEET A-640:

**LOCATION OF LVT FLOORING:**

- ROOM 121 – LIFE GUARD
- ROOM 204 – MULTI-PURPOSE
- ROOM 206 – MP GREEN
- ROOM 217 – STAFF LOUNGE

**LOCATIONS OF VCT FLOORING:**

- ROOM 101A – STORAGE
- ROOM 101B – SPORTS FIELD EQUIPMENT
- ROOM 105 – STORAGE
- ROOM 106 – MECHANICAL ROOM
- ROOM 115A – STORAGE
- ROOM 115C – RECEIVING
- ROOM 120A – STORAGE
- ROOM 126 – STORAGE
- ROOM 205 – STORAGE
- ROOM 210A – STORAGE
- ROOM 210B – MECH
- ROOM 211 – JANITOR
- ROOM 216A – STORAGE
- ROOM 216C – STORAGE

THE MILLIKEN ALTERNATE FLOORING SYSTEMS SHALL BE INSTALLED IN FULL ACCORDANCE WITH RESILIENT VINYL FLOORING (LVT) SPECIFICATION SECTION 096519, INCLUDING ALL REQUIREMENTS FOR SUBSTRATE PREPARATION, MOISTURE TESTING, ADHESIVE APPLICATION, TILE ORIENTATION, AND POST-INSTALLATION PROTECTION. SUBSTRATES SHALL BE PREPARED AS REQUIRED BY ASTM F710, INCLUDING REMOVAL OF CONTAMINANTS, PATCHING OF IRREGULARITIES, AND VERIFICATION OF MOISTURE AND PH LEVELS PRIOR TO INSTALLATION. ALL FLOORING MATERIALS AND ADHESIVES SHALL BE ACCLIMATED A MINIMUM OF 48 HOURS BEFORE INSTALLATION.

INSTALLATION SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR AMBIENT TEMPERATURE, RELATIVE HUMIDITY, TROWEL NOTCHING, ADHESIVE OPEN TIME, TILE MIXING FOR SHADE VARIATION, AND FINAL ROLLING WITH A 100-POUND THREE-SECTION ROLLER, ENSURING A COMPLETE AND WARRANTY-COMPLIANT SYSTEM.



**ALTERNATE #28 - PVC IN LIEU OF COPPER CONDENSATE PIPING ABOVE GRADE**

BY: *CONSULTING ENGINEERING SERVICES (CES)*

**PLUMBING:**

PVC CONDENSATE PIPING SHALL BE ALLOWED ABOVE GRADE IN LIEU OF COPPER. SEE SPECIFICATIONS SECTION 221005-1.3 FOR REFERENCED STANDARDS.



**ALTERNATE #29 - EXTENDED COVERAGE FIRE SUPPRESSION HEADS IN LIEU OF STANDARD HEADS**

BY: *CONSULTING ENGINEERING SERVICES (CES)*

**PLUMBING:**

EXTENDED-COVERAGE FIRE SUPPRESSION HEADS SHALL BE ALLOWED IN LIEU OF STANDARD HEADS. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A SUBMITTAL OF SIGNED FIRE PROTECTION PLANS AND CALCULATIONS FOR APPROVAL.



## **ALTERNATE #30 – FLEXIBLE FIRE SUPPRESSION DROPS IN LIEU OF RIGID DROPS**

*BY: CONSULTING ENGINEERING SERVICES (CES)*

### **FIRE PROTECTION:**

FLEXIBLE FIRE SUPPRESSION DROPS SHALL BE ALLOWED IN LIEU OF RIGID DROPS. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE A SUBMITTAL OF SIGNED FIRE PROTECTION PLANS AND CALCULATIONS FOR APPROVAL.



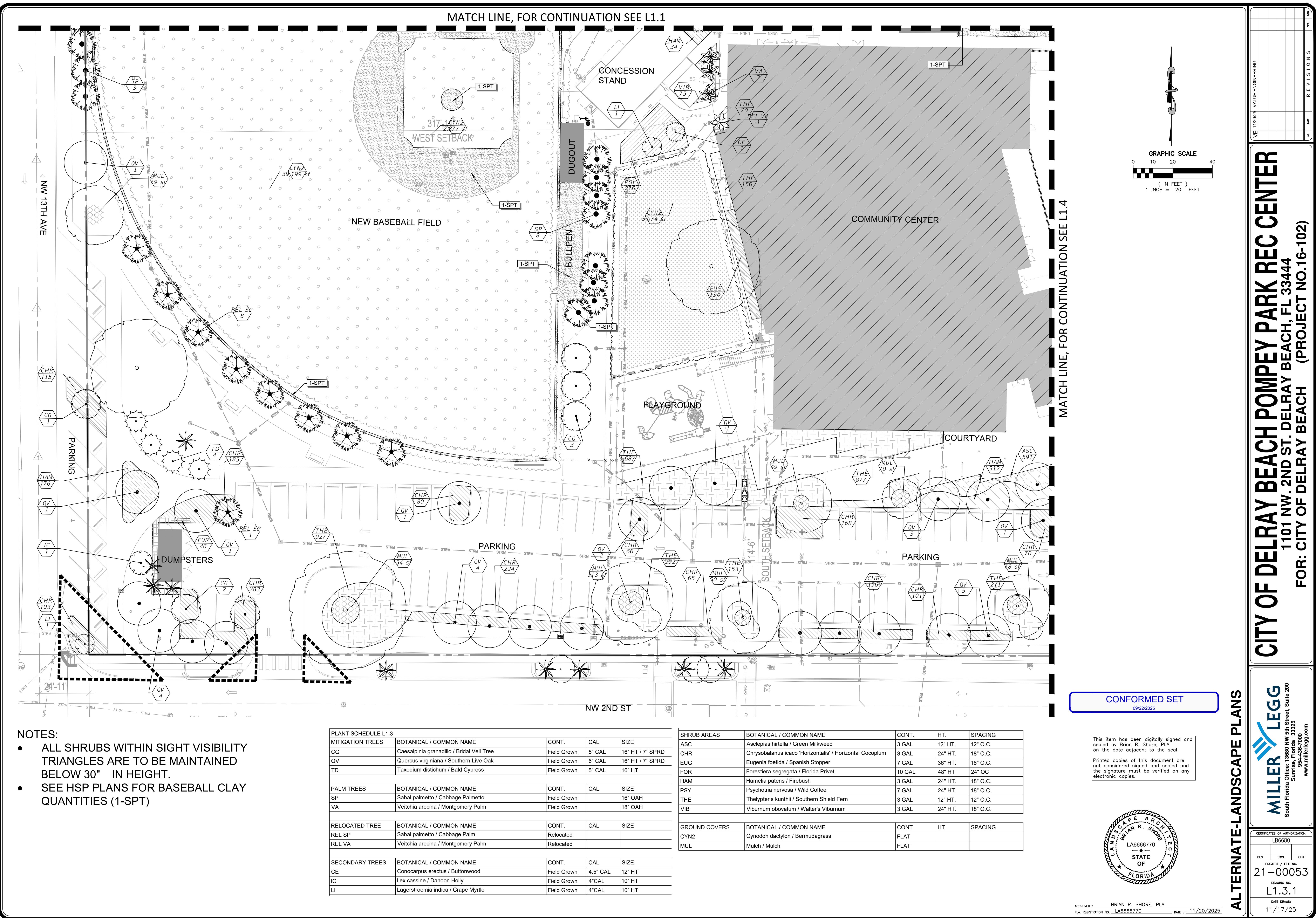
**ALTERNATE #31 - REMOVAL OF FIRE PROTECTION SYSTEM LOCATED IN THE CABANAS, SHELTER & RESTROOMS**

BY: CONSULTING ENGINEERING SERVICES (CES)

**FIRE PROTECTION:**

REMOVE ALL FIRE PROTECTION SCOPE ASSOCIATED WITH THE CABANAS AND THE SHELTER & RESTROOMS. THIS INCLUDES ALL SPRINKLERS AND ALL ABOVE- AND BELOW-GROUND PIPING.

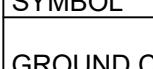




## GENERAL NOTES:

1. PLANT MATERIAL: ALL PLANT MATERIAL SHALL BE FLORIDA #1 OR BETTER, pursuant to LDR Sec. 4.6.16.(E)(3) Quality, AS ESTABLISHED BY "GRADES AND STANDARDS FOR NURSERY PLANTS" OF THE STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE.
2. ALL TREES, SHRUBS AND GROUNDCOVERS SHALL BE OF THE SIZES AS SPECIFIED IN THE PLANT LIST.
3. QUANTITIES LISTED ON THE THE PLANT LIST ARE FOR ESTIMATING PURPOSES. CONTRACTOR SHALL VERIFY ALL QUANTITIES. MULCH, TOPSOIL, FERTILIZER, ETC. SHALL BE INCLUDED IN THE UNIT COST OF THE PLANTS.
4. WHERE THERE IS A DISCREPANCY EITHER IN QUANTITIES, PLANT NAMES, SIZES OR SPECIFICATIONS BETWEEN THE PLAN OR PLANT LIST, THE PLAN TAKES PREFERENCE.
- f. ROOT PRUNING SHALL BE DONE BY OR UNDER THE SUPERVISION OF AN ISA CERTIFIED ARBORIST, AND MEET OR EXCEED ANSI A300 OR APPROVED TREE CARE INDUSTRY STANDARDS. A CERTIFIED ARBORIST MUST BE ONSITE DURING THE ENTIRETY OF ROOT PRUNING.
- g. ALL ROOT PRUNING SHALL BE DONE PER ANSI A300.
32. ROOT-PRUNE MINIMUM OF (12) WEEKS PRIOR TO RELOCATE TREES.
33. PURSUANT TO SEC. 4.6.16(F) IRRIGATION REQUIREMENTS, ALL LANDSCAPED AREAS SHALL BE PROVIDED WITH A FULLY AUTOMATED SPRINKLER SYSTEM THAT WILL PROVIDE COMPLETE COVERAGE OF PLANT MATERIALS AND GRASS TO BE MAINTAINED. ALL SYSTEMS SHALL BE DESIGNED TO ALLOW FOR HEAD-TO-HEAD COVERAGE (100% COVERAGE WITH 100% OVERLAP).

PLANT SCHEDULE							
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CALIPER	HEIGHT		QTY
MITIGATION TREES							
	CG	Caesalpinia granadillo / Bridal Veil Tree	Field Grown	5" CAL	16' HT / 7' SPRD		16
	QV	Quercus virginiana / Southern Live Oak	Field Grown	6" CAL	16' HT / 7' SPRD		43
	TD	Taxodium distichum / Bald Cypress	Field Grown	5" CAL	16' HT		12
PALM TREES							
	BN	Bismarckia nobilis / Bismarck Palm	Field Grown		20' OAH		5
	RR	Roystonea regia / Royal Palm	Field Grown		20' OAH		5
	SP	Sabal palmetto / Cabbage Palmetto	Field Grown		16' OAH		27
	VA	Veitchia arecina / Montgomery Palm	Field Grown		18' OAH		11
	WB	Wodyetia bifurcata / Foxtail Palm	Field Grown		16' OAH		13
SECONDARY TREES							
	CO	Chrysophyllum oliviforme / Satinleaf	Field Grown	4" CAL	10' HT		4
	CE	Conocarpus erectus / Buttonwood	Field Grown	4.5" CAL	12' HT		1
	IC	Ilex cassine / Dahoon Holly	Field Grown	4" CAL	10' HT		9
	IE	Ilex x attenuata 'East Palatka' / East Palatka Holly	Field Grown	5" CAL	14' HT		7
	LI	Lagerstroemia indica / Crape Myrtle	Field Grown	4" CAL	10' HT		18
RELOCATED TREE							
	REL ER	Eugenia rhombea / Red Stopper	Relocated				8
	REL HV	Hyophorbe verschaffeltii / Spindle Palm	Relocated				2
	REL JS	Jatropha spp / Jatropha	Relocated				3
	REL QV	Quercus virginiana / Live Oak	Relocated				6
	REL SP	Sabal palmetto / Cabbage Palm	Relocated				28
	REL SR	Syagrus romanzoffianum / Queen Palm	Relocated				14
	REL VA	Veitchia arecina / Montgomery Palm	Relocated				4

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	HEIGHT	SPREAD	SPACING	QTY
<b>SHRUB AREAS</b>							
	ASC	Asclepias hirtella / Green Milkweed	3 GAL	12" HT.	12" O.C.	12" o.c.	2,210
	CHR	Chrysobalanus icaco 'Horizontalis' / Horizontal Cocoplum	3 GAL	24" HT.	18" O.C.	18" o.c.	3,893
	EUG	Eugenia foetida / Spanish Stopper	7 GAL	36" HT.	18" O.C.	18" o.c.	841
	FOR	Forestiera segregata / Florida Privet	10 GAL	48" HT	24" OC	24" o.c.	154
	HAM	Hamelia patens / Firebush	3 GAL	24" HT.	18" O.C.	18" o.c.	1,552
	MUH	Muhlenbergia capillaris / Pink Muhly Grass	3 GAL	24" HT.	18" O.C.	18" o.c.	1,838
	PSY	Psychotria nervosa / Wild Coffee	7 GAL	24" HT.	18" O.C.	18" o.c.	567
	THE	Thelypteris kunthii / Southern Shield Fern	3 GAL	12" HT.	12" O.C.	12" o.c.	12,665
	VIB	Viburnum obovatum / Walter's Viburnum	3 GAL	24" HT.	18" O.C.	18" o.c.	711
SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	HT	SPREAD	SPACING	QTY
<b>GROUND COVERS</b>							
	ARA	Arachis glabrata / Perennial Peanut	FLAT				254 sf
	CYN	Cynodon dactylon / Bermuda Grass	FLAT				123,810 sf
	CYN2	Cynodon dactylon / Bermudagrass	FLAT			VE	99,012 sf
	MUL	Mulch / Mulch	FLAT				3,982 sf

# CONFORMED SET

dated by Brian R. Shore, PLA  
the date adjacent to the seal.

W:\DDO\INFO\0001\000057 DODGE, RANDI LANDSCAPE 24 000057 LAND USE 00005 /41 /00 14411 L ADDRES

# CITY OF DELRAY BEACH POMPEY PARK REC CENTER

**DELRAY BEACH POMPEY PARK REC C  
1101 NW. 2ND ST. DELRAY BEACH, FL 33444  
FOR: CITY OF DELRAY BEACH (PROJECT NO.16-102)**

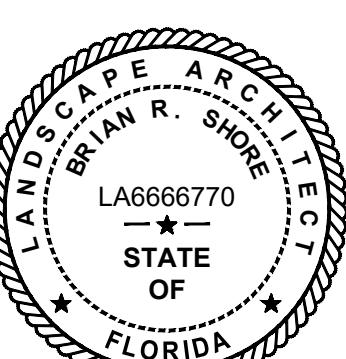
**MILLER LEGE**

CERTIFICATES OF AUTHORIZATION:		
LB6680		
DES.	DWN.	CHK.
PROJECT / FILE NO.		
21-00053		
DRAWING NO.		
IRR1.3.1		
DATE DRAWN:		
11/20/25		

CONFORMED SET  
09/22/2025

This item has been digitally signed and  
sealed by Brian R. Shore, PLA  
the date adjacent to the seal.

Printed copies of this document are  
not considered signed and sealed and  
the signature must be verified on any  
electronic copies.



V:\PROJECTS\2021\21-00053 - POMPEY PARK\LANDSCAPE\21-00053.RRF VEDWG 2025/11/20 14:03 by APEREDA

( IN FEET )

1 INCH = 20 FEET

# ALTERNATIVE-IRRIGATION PLANS

## IRRIGATION NOTES & SPECIFICATIONS:

THE SYSTEM HAS BEEN DESIGNED TO CONFORM WITH THE REQUIREMENTS OF ALL APPLICABLE CODES. SHOULD ANY CONFLICT EXIST, THE REQUIREMENTS OF THE CODES SHALL PREVAIL. IT IS THE RESPONSIBILITY OF THE OWNER/INSTALLATION CONTRACTOR TO INSURE THE ENTIRE SYSTEM IS INSTALLED ACCORDING TO ALL APPLICABLE LAWS, RULES, REGULATIONS AND CONVENTIONS. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS ACCORDING TO FEDERAL, STATE AND LOCAL LAWS.

THE SCOPE OF WORK IS SHOWN ON THE PLANS, NOTES AND DETAILS. THE IRRIGATION CONTRACTOR SHALL BE CERTIFIED AS A CERTIFIED IRRIGATION CONTRACTOR BY THE IRRIGATION ASSOCIATION. THE CERTIFICATION SHALL BE CURRENT AND IN GOOD STANDING.

### SCOPE OF WORK

THE WORK SPECIFIED IN THIS SECTION CONSISTS OF FURNISHING ALL COMPONENTS NECESSARY FOR THE INSTALLATION, TESTING, AND DELIVERY OF A COMPLETE, FULLY FUNCTIONAL AUTOMATIC LANDSCAPE IRRIGATION SYSTEM THAT COMPLETELY COMPLIES WITH THE 100% IRRIGATION PLANS, SPECIFICATIONS, NOTES, DETAILS AND ALL APPLICABLE LAWS, REGULATIONS, CODES AND ORDINANCES. THIS WORK SHALL INCLUDE, BUT NOT BE LIMITED TO, THE PROVIDING OF ALL REQUIRED MATERIAL (PIPE, VALVES, FITTINGS, CONTROLLERS, WIRE, PRIMER, GLUE, ETC.), LAYOUT, PROTECTION OF THE PUBLIC, EXCAVATION, ASSEMBLY, INSTALLATION, BACK FILLING, COMPACTING, REPAIR OF ROAD SURFACES, CONTROLLER AND LOW VOLTAGE FEEDS TO VALVES, CLEANUP, MAINTENANCE, GUARANTEE AND AS-BUILT PLANS.

ALL IRRIGATED AREAS SHALL PROVIDE 100% HEAD-TO-HEAD COVERAGE FROM A FULLY AUTOMATIC IRRIGATION SYSTEM WITH A RAIN SENSOR AS SHOWN. THE RAIN SENSOR SHALL BE INSTALLED TO PREVENT ITS ACTIVATION BY ADJACENT HEADS. ALL WATERING PROCEDURES SHALL CONFORM TO LOCAL CODES, AS WELL AS THIS PROJECT'S REGIONAL WATER MANAGEMENT DISTRICT RESTRICTIONS AND REGULATIONS. ZONES ARE PRIORITY FIRST BY PUBLIC SAFETY AND THEN BY HYDRAULIC CONCERN. THIS SEQUENCING WILL BE A MANDATORY PUNCH LIST ITEM. THESE PLANS HAVE BEEN DESIGNED TO SATISFY/EXCEED THE FLORIDA BUILDING CODE (FBC), APPENDIX F AND THE FLORIDA IRRIGATION SOCIETY STANDARDS AND SPECIFICATIONS FOR TURF AND LANDSCAPE IRRIGATION SYSTEMS, FOURTH EDITION.

CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES 72 HOURS PRIOR TO COMMENCEMENT OF WORK.

IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO FAMILIARIZE THEMSELVES WITH ALL GRADE DIFFERENCES, LOCATION OF WALLS, RETAINING WALLS, STRUCTURES AND UTILITIES. DO NOT WILLFULLY INSTALL THE SPRINKLER SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTION, GRADE DIFFERENCES OR DIFFERENCES IN THE AREA DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE DESIGN. SUCH OBSTRUCTIONS, OR DIFFERENCES, SHOULD BE BROUGHT TO THE ATTENTION OF THE OWNER AUTHORIZED REPRESENTATIVE. IN THE EVENT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS NECESSARY.

IRRIGATION CONTRACTOR SHALL REPAIR OR REPLACE ALL EXISTING SITE ITEMS DAMAGED BY THEIR WORK. IRRIGATION CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE SLEEVES AND LATERALS THROUGH WALLS, UNDER ROADWAYS AND PAVING, ETC.

THE CONTRACTOR SHALL TAKE IMMEDIATE STEPS TO REPAIR, REPLACE, OR RESTORE ALL SERVICES TO ANY UTILITIES WHICH ARE DISRUPTED DUE TO THEIR OPERATIONS. ALL COSTS INVOLVED IN DISRUPTION OF SERVICE AND REPAIRS DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

### POINT OF CONNECTION (P.O.C.)

THE POC-A IS TO AN EXISTING RECLAIMED WATER POINT LOCATED ON THE SOUTHWEST SIDE OF THE PROJECT BY NW 12<sup>TH</sup> AVE. CONTRACTOR SHALL VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO BEGINNING THE INSTALLATION OF THE IRRIGATION SYSTEM, IF THE CONDITIONS CANNOT BE MET: THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOMES RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM PERFORM AS REQUIRED.

THE POC-B IS A PROPOSED RECLAIMED WATER POINT OF CONNECTION UTILIZING THE 4" CAPPED SERVICE LINE IS LOCATED SOUTHEAST SIDE OF THE PROJECT BY NW 11<sup>TH</sup> AVE REFER TO CIVIL PLANS FOR CAPPED RECLAIMED WATER LINE TO CONNECT POC-B. CONTRACTOR SHALL VERIFY THESE MINIMUM CONDITIONS CAN BE MET PRIOR TO BEGINNING THE INSTALLATION OF THE IRRIGATION SYSTEM, IF THE CONDITIONS CANNOT BE MET: THE CONTRACTOR MUST NOTIFY THE DESIGNER PRIOR TO PROCEEDING WITH THE WORK. IF THE CONTRACTOR DOES NOT DO SO, THE CONTRACTOR PROCEEDS AT THEIR OWN RISK AND BECOME RESPONSIBLE FOR ANY FUTURE WORK REQUIRED TO MAKE THE SYSTEM PERFORM AS REQUIRED.

### PIPES

PIPE LOCATIONS SHOWN ON THE PLAN ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD, WHEN LAYING OUT MAINLINES PLACE A MAXIMUM OF 18" AWAY FROM EITHER THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR OTHER HARDCAPE TO ALLOW FOR EASE IN LOCATING AND PROTECTION FROM PHYSICAL DAMAGE. INSTALL ALL LATERAL PIPE NEAR EDGES OF PAVEMENT OR AGAINST BUILDINGS WHENEVER POSSIBLE TO ALLOW SPACE FOR PLANT ROOT BALLS. ALWAYS INSTALL PIPING INSIDE PROJECT PROPERTY BOUNDARY.

PIPES SHALL ALWAYS BE PLACED IN PLANTING BEDS. IF IT IS NECESSARY TO HAVE PIPING UNDER HARDCAPES, SUCH AS ROADS, WALKS, AND PATIOS, THE PIPES MUST BE SLEEVED USING SCH 40 PVC WITH THE SLEEVE DIAMETER BEING TWICE THE SIZE OF THE PIPE IT IS CARRYING WITH A MINIMUM SLEEVE SIZE OF 2".

PIPE SIZES SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS OF LARGER SIZES MAY BE APPROVED. ALL DAMAGED AND REJECTED PIPE SHALL BE REMOVED FROM THE SITE AT THE TIME OF SAID REJECTION.

MAINLINE SHALL BE PVC SCHEDULE 40 WITH PVC SCHEDULE 40, SOLVENT WELD FITTINGS (SIZED PER PLANS).

CONTRACTOR TO ENSURE ALL MAINLINE PIPING IS PROPERLY RESTRAINED USING MECHANICAL Joint FITTINGS, RESTRAINING COLLARS, THREADED RODS, THRUST BLOCKS, ETC., AS AND WHERE REQUIRED. CONTRACTOR SHALL REFER TO PIPE MANUFACTURER'S RECOMMENDED INSTALLATION PRACTICES FOR FURTHER DIRECTION.

PVC PIPE JOINT COMPOUND AND PRIMER: SLOW-DRYING, HEAVY DUTY CEMENT AND TINTED (PURPLE) PRIMER THAT IS COMPATIBLE WITH THE CEMENT. THE PVC CEMENT SHALL BE WELD-ON 2711 GREY AND THE PRIMER SHALL BE WELD-ON P70 PURPLE PRIMER, OR APPROVED EQUALS.

### ELECTRICAL POWER SUPPLY

ELECTRICAL SUPPLY FOR CONTROLLER TO BE PROVIDED BY RAIN BIRD IRRIGATION ELECTRICAL SPECS FOR CONTROLLER THAT IS SPECIFIED IN PLAN. CONTRACTOR TO COORDINATE WITH CITY AND LOCAL UTILITIES FOR THE INSTALLATION OF CONNECTION TO AVAILABLE SITE POWER SUPPLY FOR REQUIRED ELECTRICAL COMPONENTS AS SET AS INDICATED ON THE 100% IRRIGATION PLANS. CONTRACTOR TO COORDINATE WITH BUILDING DEPARTMENT FOR WIFI CONNECTIVITY TO WIFI CAPABLE CONTROLLER.

ALL ELECTRICAL INSTALLATION TO COMPLY WITH THE NATIONAL ELECTRICAL CODE AND ANY OR ALL OTHER APPLICABLE ELECTRICAL CODES, LAWS AND REGULATIONS. A LICENSED ELECTRICIAN SHALL PERFORM ALL ELECTRICAL HOOK-UPS.

### WIRING

IRRIGATION CONTROL WIRE SHALL BE THERMOPLASTIC SOLID COPPER, SINGLE CONDUCTOR, LOW VOLTAGE IRRIGATION CONTROLLER WIRE SUITABLE FOR DIRECT BURIAL AND CONTINUOUS OPERATION AT RATED VOLTAGES.

TAPE AND BUNDLE CONTROL WIRES EVERY 10' AND RUN ADJACENT TO THE MAINLINE. AT ALL TURNS IN DIRECTION MAKE A 2' COIL OF WIRE. AT ALL VALVE BOXES COIL WIRE

AROUND A 3/4" PIECE OF PVC PIPE TO MAKE A COIL USING 30 LINEAR INCHES OF WIRE. MAKE ELECTRICAL CONNECTIONS WITH 3M-DBY,DBR CONNECTORS.

NUMBER ALL WIRES USING AN ELECTRICAL BOOK OF NUMBERS ACCORDING TO THE PLANS. NUMBER WIRES IN ALL VALVE BOXES, JUNCTION BOXES AND AT THE CONTROLLER.

WIRE SIZED, NUMBERED AND COLORED AS FOLLOWS:

- #14 WHITE FOR COMMON
- #14 SPARE BLACK COMMON
- #14 RED FOR HOT WIRES
- #14 SPARE YELLOW HOT WIRE

### CONTROLLER GROUNDING

CONTRACTOR TO UTILIZE 4"X8"X5/8" COPPER GROUNDING PLATES, 5/8"X10" COPPER CLAD GROUNDING RODS, 'ONE STRIKE' CAD WELLS AT ALL CONNECTION POINTS, #6 BARE COPPER WIRE, AND EARTH CONTACT MATERIAL. INSTALL THESE AND OTHER REQUIRED COMPONENTS AS OUTLINED IN THE DETAIL. CONTRACTOR TO VERIFY THAT THE EARTH TO GROUND RESISTANCE DOES NOT EXCEED 10 OHMS. CONTRACTOR SHALL PROVIDE A WRITTEN CERTIFICATION ON A LICENSED ELECTRICAL CONTRACTOR'S LETTER HEAD SHOWING THE DATE OF THE TEST, CONTROLLER LOCATION, AND TEST RESULTS. EACH CONTROLLER SHALL BE SO GROUNDED AND TESTED.

### LAYOUT

LAY OUT IRRIGATION SYSTEM MAINLINES AND LATERAL LINES. MAKE THE NECESSARY ADJUSTMENTS AS REQUIRED TO TAKE INTO ACCOUNT ALL SITE OBSTRUCTIONS AND LIMITATIONS PRIOR TO EXCAVATING TRENCHES.

STAKE ALL SPRINKLER HEAD LOCATIONS. ADJUST LOCATION AND MAKE THE NECESSARY MODIFICATIONS TO NOZZLE TYPES, ETC. REQUIRED TO INSURE 100% HEAD TO HEAD COVERAGE. REFER TO THE EDGE OF PAVEMENT DETAIL ON THE IRRIGATION DETAIL SHEET.

SPRAY HEADS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS AND 12" FROM UNCURBED ROADWAYS AND BUILDING FOUNDATIONS. ROTORS SHALL BE INSTALLED 4" FROM SIDEWALKS OR CURBED ROADWAYS, 12" FROM BUILDING FOUNDATIONS, AND 36" FROM UNCURBED ROADWAYS.

SHRUB HEADS SHALL BE INSTALLED ON 3/4" SCH 40 PVC RISERS. THE RISERS SHALL BE SET AT A MINIMUM OF 18" OFF SIDEWALKS, ROADWAY CURBING, BUILDING FOUNDATIONS, AND/OR ANY OTHER HARDCAPED AREAS. SHRUB HEADS SHALL BE INSTALLED TO A STANDARD HEIGHT OF 4" BELOW MAINTAINED HEIGHT OF PLANTS AND SHALL BE INSTALLED WITHIN PLANTED MASSES TO BE LESS VISIBLE AND OFFER PROTECTION. PAINT ALL SHRUB RISERS WITH FLAT BLACK OR FOREST GREEN PAINT, UNLESS IRRIGATION SYSTEM WILL BE INSTALLED FROM A REUSE WATER SYSTEM WITH PURPLE PVC RISERS.

LOCATE VALVES PRIOR TO EXCAVATION. INSURE THAT THEIR LOCATION PROVIDES FOR EASY ACCESS AND THAT THERE IS NO INTERFERENCE WITH PHYSICAL STRUCTURES, PLANTS, TREES, POLES, ETC. VALVE BOXES MUST BE PLACED A MINIMUM OF 12" AND A MAXIMUM OF 15" FROM THE EDGE OF PAVEMENT, CURBS, ETC., AND THE TOP OF THE BOX MUST BE 2" ABOVE FINISH GRADE. NO VALVE BOXES SHALL BE INSTALLED IN TURF AREAS WITHOUT APPROVAL BY THE IRRIGATION DESIGNER; ONLY IN SHRUB BEDS. NEVER INSTALL VALVE BOXES IN SPORT FIELD AREAS.

### VALVES

SEQUENCE ALL VALVES SO THAT THE FARTHEST VALVE FROM THE P.O.C. OPERATES FIRST AND THE CLOSEST TO THE P.O.C. OPERATES LAST. THE CLOSEST VALVE TO THE P.O.C. SHOULD BE THE LAST VALVE IN THE PROGRAMMED SEQUENCE.

ADJUST THE FLOW CONTROL ON EACH RCV TO ENSURE SHUT OFF IN 10 SECONDS AFTER DEACTIVATION BY THE IRRIGATION CONTROLLER.

USING 3" HIGH NUMBER STENCILS, PAINT THE VALVE NUMBER IN WHITE ON THE LID OF EACH VALVE BOX.

### EQUIPMENT

BUBBLERS SHALL BE INSTALLED USING SCH 80 NIPPLES AND SHALL BE PLACED AT THE BASE OF TREES FOR LOW LEVEL WATERING.

ALL POP-UP HEADS AND SHRUB RISERS SHALL BE PRESSURE COMPENSATING. ALL POP-UP HEADS SHALL BE MOUNTED ON FLEX-TYPE SWING JOINTS.

ALL SPRINKLER EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS, AND IN ACCORDANCE WITH LOCAL AND STATE LAWS.

### TRENCHING

EXCAVATE STRAIGHT AND VERTICAL TRENCHES WITH SMOOTH, FLAT OR SLOPING BOTTOMS. TRENCH WIDTH AND DEPTH SHOULD BE SUFFICIENT TO ALLOW FOR THE PROPER VERTICAL AND HORIZONTAL SEPARATION BETWEEN PIPING AS SHOWN IN THE PIPE INSTALLATION DETAIL ON THE DETAIL SHEET.

PROTECT EXISTING LANDSCAPED AREAS. REMOVE AND REPLANT ANY DAMAGED PLANT MATERIAL UPON JOB COMPLETION. THE REPLACEMENT MATERIAL SHALL BE THE SAME GENUS, SPECIES, AND SIZE OF THE MATERIAL IT IS REPLACING. THE FINAL DETERMINATION AS TO WHAT NEEDS TO BE REPLACED AND THE ACCEPTABILITY OF THE REPLACEMENT MATERIAL SHALL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

### INSTALLATION

CUT ALL PIPE SQUARE AND DEBURR. CLEAN PIPE AND FITTINGS OF FOREIGN MATERIAL, THEN APPLY A SMALL AMOUNT OF PRIMER WHILE ENSURING THAT ANY EXCESS IS WIPED OFF IMMEDIATELY. PRIMER SHOULD NOT PUDGLE OR DRIP FROM PIPE OR FITTINGS. NEXT APPLY A THIN COAT OF PVC CEMENT. FIRST APPLY A THIN LAYER TO THE PIPE, THEN A THIN LAYER INSIDE THE FITTING, AND FINALLY ANOTHER VERY THIN LAYER ON THE PIPE. INSERT THE PIPE INTO THE FITTING. INSURE THAT THE PIPE IS INSERTED TO THE BOTTOM OF THE FITTING, THEN TURN THE PIPE A 1/4 TURN AND HOLD FOR 10 SECONDS. MAKE SURE THAT THE PIPE DOESN'T RECEDDE FROM THE FITTING. IF THE PIPE ISN'T AT THE BOTTOM OF THE FITTING UPON COMPLETION, THE GLUE JOINT IS UNACCEPTABLE AND MUST BE DISCARDED.

PIPES MUST CURE A MINIMUM OF 30 MINUTES PRIOR TO HANDLING AND PLACING INTO TRENCHES. A LONGER CURING TIME MAY BE REQUIRED; REFER TO THE MANUFACTURER'S SPECIFICATIONS. THE PIPE MUST CURE A MINIMUM OF 24 HOURS PRIOR TO FILLING WITH WATER.

### BACKFILLING

THE BACKFILL 6" BELOW AND 6" ABOVE ALL PIPING SHALL BE CLEAN SAND. ALL OTHER TRNCH BACKFILL CAN BE NATIVE MATERIAL BUT SHALL NOT CONTAIN ANYTHING LARGER THAN 2" IN DIAMETER.

MAIN LINE PIPE DEPTH MEASURED TO THE TOP OF PIPE SHALL BE 24" MINIMUM, 36" MINIMUM AT VEHICULAR CROSSINGS.

LATERAL LINE DEPTHS MEASURED TO TOP OF PIPE SHALL BE 18" MINIMUM, 30" MINIMUM AT VEHICULAR CROSSINGS.

CONTRACTOR SHALL BACKFILL ALL PIPING, BOTH MAINLINE AND LATERALS, PRIOR TO PERFORMING ANY PRESSURE TESTS. THE PIPE SHALL BE BACKFILLED WITH THE EXCEPTION

OF 2' ON EACH SIDE OF EVERY JOINT (BELL FITTINGS, 90's, TEES, 45's, ETC.). THESE JOINTS SHALL NOT BE BACKFILLED UNTIL ALL PIPING HAS SATISFACTORILY PASSED ITS APPROPRIATE PRESSURE TEST AS OUTLINED BELOW.

### FLUSHING

PRIOR TO THE PLACEMENT OF HEADS, FLUSH ALL LINES FOR A MINIMUM OF 10 MINUTES OR UNTIL LINES ARE COMPLETELY CLEAN OF DEBRIS, WHICHEVER IS LONGER.

USE SCREENS IN HEADS AND ADJUST HEADS FOR PROPER COVERAGE AVOIDING EXCESS WATER ON WALLS, WALKS AND PAVING.

### TESTING

REMOVE ALL REMOTE CONTROL VALVES AND CAP USING A THREADED CAP. FILL MAINLINE WITH WATER AND PRESSURIZE THE SYSTEM TO 100 PSI. MONITOR THE SYSTEM PRESSURE AT TWO GAUGE LOCATIONS; THE GAUGE LOCATIONS MUST BE AT OPPOSITE ENDS OF THE MAINLINE. WITH THE SAME RESPECTIVE PRESSURES, MONITOR THE GAUGES FOR TWO HOURS. THERE CAN BE NO LOSS IN PRESSURE AT EITHER GAUGE FOR SOLVENT-WELDED PIPE. GASKETED PIPING SHALL LOSE NO MORE WATER THAN ALLOWED PER THE FLORIDA STATE BUILDING CODE, VOLUME II PLUMBING, PART VI, APPENDIX "F". REFER TO THIS SECTION FOR THE FORMULA TO BE USED TO CALCULATE THE MAXIMUM ALLOWABLE WATER LOSS DURING THE TESTING TIME. IF THESE PARAMETERS ARE EXCEEDED, LOCATE THE PROBLEM; REPAIR IT; WAIT 24 HOURS AND RETRY THE TEST. THIS PROCEDURE MUST BE FOLLOWED UNTIL THE MAINLINE PASSES THE TEST.

THE LATERAL LINES MUST BE FILLED AND VISUALLY CHECKED FOR LEAKS. ANY LEAKS DETECTED MUST BE REPAIRED. NO PRESSURE TEST OF THE LATERAL LINES IS REQUIRED.

ONCE THE MAINLINE AND LATERAL LINES HAVE PASSED THEIR RESPECTIVE TESTS AND THE SYSTEM IS COMPLETELY OPERATIONAL, A COVERAGE TEST AND DEMONSTRATION OF THE SYSTEM IS REQUIRED. THE IRRIGATION CONTRACTOR MUST DEMONSTRATE TO THE OWNER OR HIS/HER REPRESENTATIVE THAT PROPER COVERAGE IS OBTAINED AND THAT THE SYSTEM WORKS AUTOMATICALLY FROM THE CONTROLLER. THIS DEMONSTRATION REQUIRES THAT EACH ZONE BE TURNED ON IN THE PROPER SEQUENCE AS SHOWN ON THE PLANS FROM THE CONTROLLER. EACH ZONE WILL BE INSPECTED FOR PROPER COVERAGE AND FUNCTION. THE DETERMINATION OF PROPER COVERAGE AND FUNCTION WILL BE SOLELY DETERMINED BY THE OWNER OR OWNER'S REPRESENTATIVE.

OPERATIONAL TESTING - UPON COMPLETION OF BACKFILLING, FINISH GRADING AND CONTOURING, TEST THE ENTIRE SYSTEM FOR PROPER OPERATION, INCLUDING ELECTRICALLY ACTUATING THE REMOTE CONTROL VALVE, RUN EACH ZONE UNTIL WATER BEGINS TO PUDDLE OR RUN OFF. THIS WILL ALLOW DETERMINATION OF THE NUMBER OF IRRIGATION START TIMES NECESSARY TO MEET THE WEEKLY EVAPOTRANSPIRATION REQUIREMENTS OF THE PLANTING MATERIAL IN EACH ZONE. IN SANDY SOILS NO PUDDLING WILL OCCUR. IN THESE CASES, CALCULATE THE REQUIRED RUN TIMES.

### SUBMISSIONS

THE CONTRACTOR MUST SUBMIT FOR APPROVAL, PRIOR TO INSTALLATION, COPIES OF THE MANUFACTURER'S CUT SHEETS/SPECIFICATIONS FOR ALL COMPONENTS TO BE USED IN THE IRRIGATION SYSTEM.

AFTER PROJECT COMPLETION, AND AS A CONDITION OF FINAL ACCEPTANCE, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE OWNER WITH A HIGH QUALITY, ACCURATE, AND LEGIBLE SET OF AS-BUILT DRAWINGS. THE AS-BUILTS MUST IDENTIFY ALL REMOTE CONTROL VALVES, GATE VALVES, BALL VALVES, SPICE BOXES, CONTROLLERS, MAINLINE, SLEEVING, AND LOW VOLTAGE WIRING. EACH OF THESE ITEMS IS SHAL LOCATED USING A SUBMETER GPS SYSTEM. THE IRRIGATION CONTRACTOR MUST ALSO PROVIDE ACCURATE, INFORMATIVE, AND EASY TO FOLLOW AND UNDERSTAND OPERATION AND MAINTENANCE MANUALS FOR ALL COMPONENTS OF THE IRRIGATION SYSTEM.

CONTROLLER CHARTS - UPON COMPLETION OF "AS-BUILTS", CONTRACTOR SHALL PREPARE CONTROLLER CHARTS AT ONE PER CONTROLLER. INDICATE ON EACH CHART THE AREA CONTROLLED BY A REMOTE CONTROL VALVE (USING A DIFFERENT COLOR FOR EACH ZONE). THIS CHART SHALL BE REDUCED TO A SIZE THAT WILL FIT INSIDE OF THE CONTROLLER DOOR. THE REDUCTION SHALL BE HERMETICALLY SEALED INSIDE TWO 2ML PIECES OF CLEAR PLASTIC.

CONTRACTOR SHALL FURNISH EXTRA MATERIALS DESCRIBED BELOW THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. INCLUDE TOOLS TO SERVICE THESE PRODUCTS.

1. SPRINKLER UNITS: FIVE OF EACH UNIT FOR EACH TYPE AND SIZE INSTALLED, BUT NO FEWER THAN TWO UNITS.

2. Emitter Units: FIVE OF EACH UNIT FOR EACH TYPE AND SIZE INSTALLED, BUT NO FEWER THAN TWO UNITS.

3. DRIP TUBE UNITS: FIVE OF EACH UNIT FOR EACH TYPE AND SIZE INSTALLED, BUT NO FEWER THAN TWO UNITS.

4. TURF ROTOR: FIVE OF EACH UNIT FOR EACH TYPE AND SIZE INSTALLED, BUT NO FEWER THAN TWO UNITS.

FINAL ACCEPTANCE OF THE IRRIGATION SYSTEM WILL BE GIVEN AFTER THE FOLLOWING DOCUMENTS AND CONDITIONS HAVE BEEN COMPLETED AND APPROVED. FINAL PAYMENT WILL NOT BE RELEASED UNTIL THESE CONDITIONS ARE SATISFIED.

1. FINAL WALK-THRU AND CORRECTION OF ALL PUNCH LIST ITEMS.

2. COMPLETION AND ACCEPTANCE OF "AS-BUILT" DRAWINGS.

3. ACCEPTANCE OF REQUIRED CONTROLLER CHARTS AND PLACEMENT INSIDE OF CONTROLLERS.

4. TURNOVER OF ALL REQUIRED PARTS AND TOOLS AS OUTLINED IN THE PROJECT SPECIFICATIONS.

GUAR

# CITY OF DELRAY BEACH POMPEY PARK REC CENTER

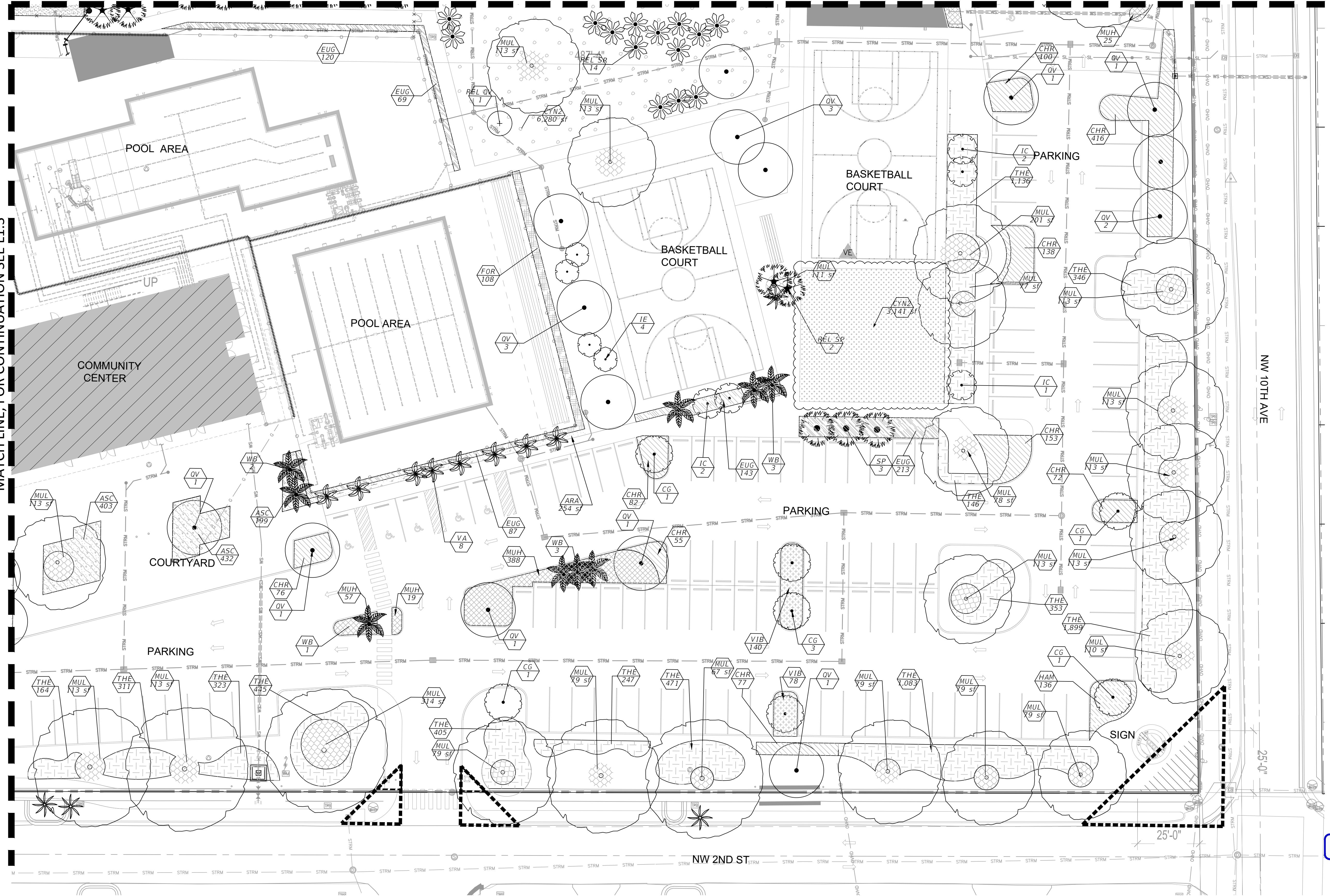
1101 NW. 2ND ST. DELRAY BEACH, FL 33444  
FOR: CITY OF DELRAY BEACH (PROJECT NO.16-102)

## ALTERNATE-LANDSCAPE PLANS

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MATCH LINE, FOR CONTINUATION SEE L1.3

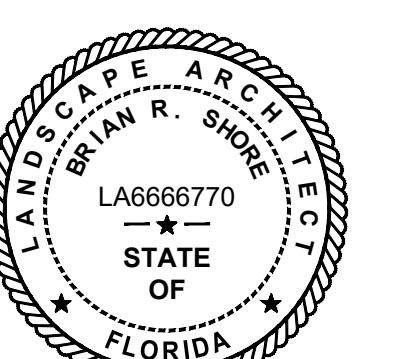
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GRAPHIC SCALE  
0 10 20 40  
1 INCH = 20 FEET

CONFORMED SET  
09/22/2025

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CERTIFICATES OF AUTHORIZATION:  
LB6680

DES. DNN. CHC.

PROJECT / FILE NO.  
21-00053

DRAWING NO.  
L1.4.1

DATE DRAWN:  
11/17/25

APPROVED : BRIAN R. SHORE, PLA  
FLA. REGISTRATION NO. LA6666770  
DATE : 11/20/2025

NOTE: ALL SHRUBS WITHIN SIGHT VISIBILITY  
TRIANGLES ARE TO BE MAINTAINED BELOW 30"  
IN HEIGHT.

PLANT SCHEDULE L1.4				
MITIGATION TREES	BOTANICAL / COMMON NAME	CONT.	CAL	SIZE
CG	Caesalpinia granadillo / Bridal Veil Tree	Field Grown	5" CAL	16' HT / 7' SPRD
QV	Quercus virginiana / Southern Live Oak	Field Grown	6" CAL	16' HT / 7' SPRD

PALM TREES	BOTANICAL / COMMON NAME	CONT.	CAL	SIZE
SP	Sabal palmetto / Cabbage Palm	Field Grown		16' OAH
VA	Veitchia arecina / Montgomery Palm	Field Grown		18' OAH
WB	Wodyetia bifurcata / Foxtail Palm Min. 6' CT	Field Grown		16' OAH

RELOCATED TREE	BOTANICAL / COMMON NAME	CONT.	CAL	SIZE
REL QV	Quercus virginiana / Live Oak	Relocated		
REL SP	Sabal palmetto / Cabbage Palm	Relocated		
REL SR	Syagrus romanzoffianum / Queen Palm	Relocated		

SECONDARY TREES	BOTANICAL / COMMON NAME	CONT.	CAL	SIZE
IC	Ilex cassine / Dahoon Holly	Field Grown	4" CAL	10' HT
IE	Ilex x attenuata 'East Palatka' / East Palatka Holly Min 7' Canopy Spread & 8' CT	Field Grown	5" CAL	14' HT

SHRUB AREAS	BOTANICAL / COMMON NAME	CONT.	HT.	SPACE
ASC	Asclepias hirtella / Green Milkweed	3 GAL	12' HT.	12" O.C.
CHR	Chrysobalanus icaco 'Horizontalis' / Horizontal Cocoplum	3 GAL	24' HT.	18" O.C.
EUG	Eugenia foetida / Spanish Stopper	7 GAL	36' HT.	18" O.C.
FOR	Forrestiera segregata / Florida Privet	10 GAL	48' HT.	24" OC
HAM	Hamelia patens / Firebush	3 GAL	24' HT.	18" O.C.
MUH	Muhlenbergia capillaris / Pink Muhly Grass	3 GAL	24' HT.	18" O.C.
THE	Thelypteris kunthii / Southern Shield Fern	3 GAL	12' HT.	12" O.C.
VIB	Viburnum obovatum / Walter's Viburnum	3 GAL	24' HT.	18" O.C.

GROUND COVERS	BOTANICAL / COMMON NAME	CONT.	HT
ARA	Arachis glabrata / Perennial Peanut	FLAT	
CYN2	Cynodon dactylon / Bermudagrass	FLAT	
MUL	Mulch / Mulch	FLAT	

# CITY OF DELRAY BEACH POMPEY PARK REC CENTER

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FOR: CITY OF DELRAY BEACH (PROJECT NO.16-102)

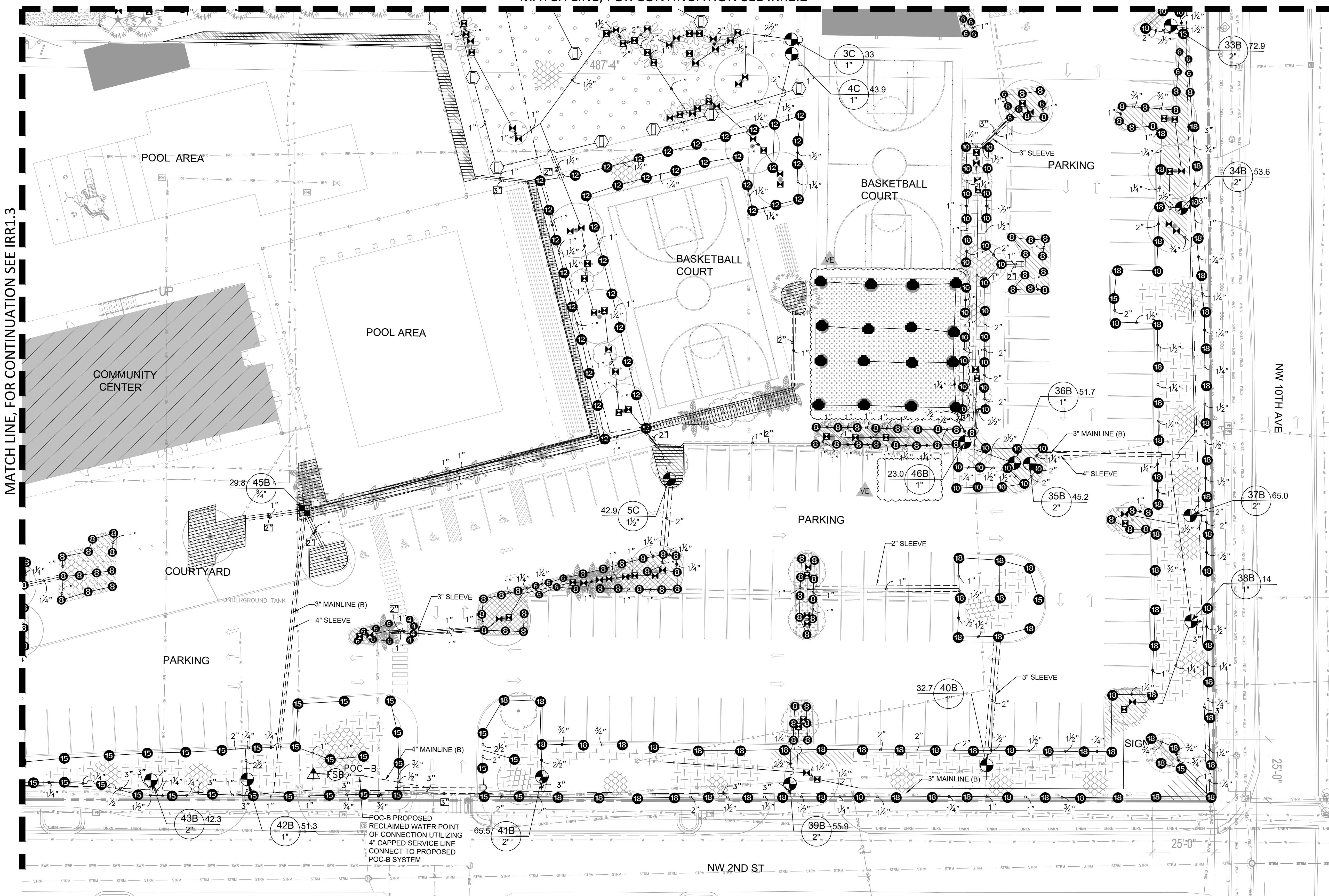
## ALTERNATE-IRRIGATION PLANS

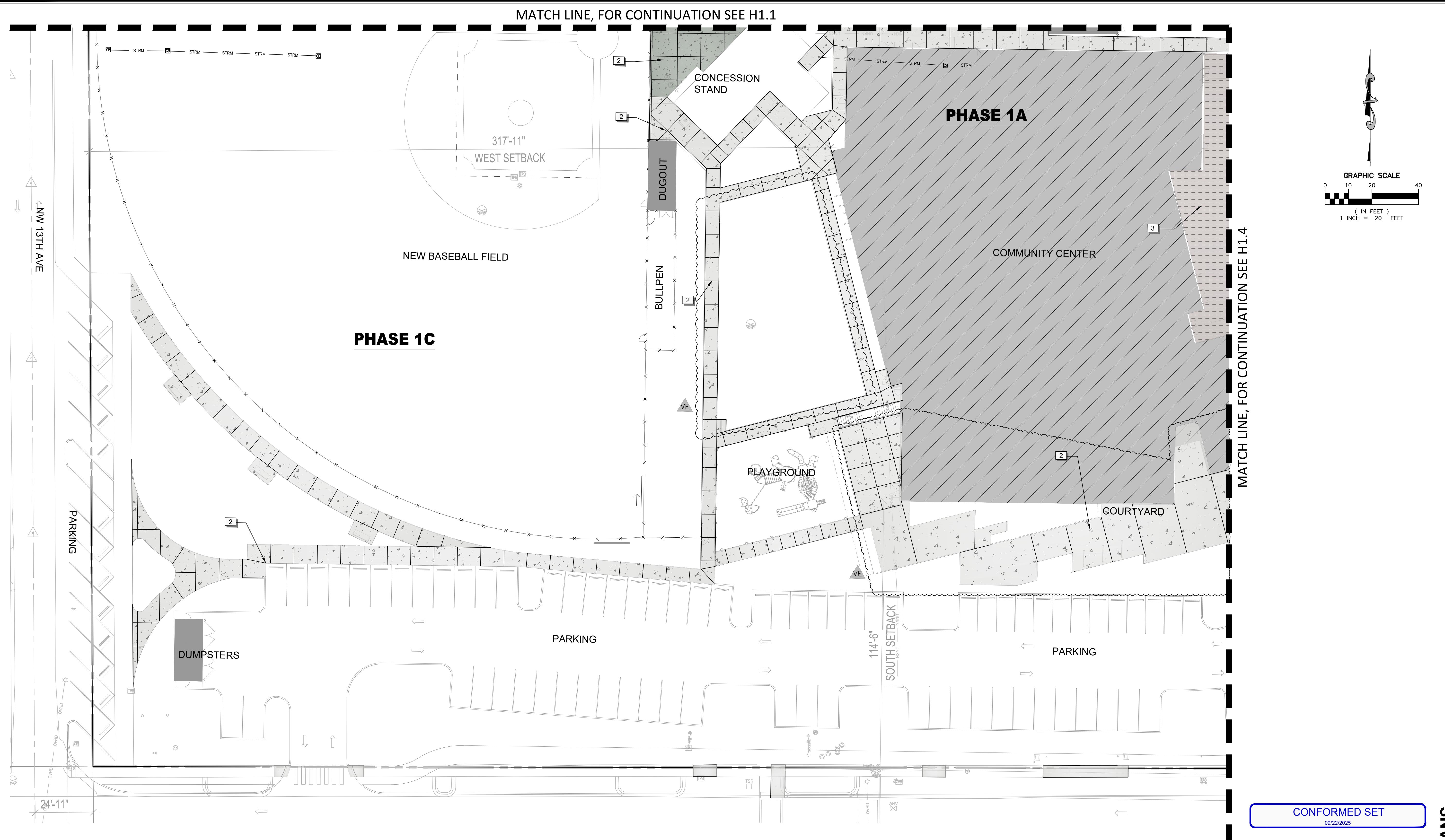


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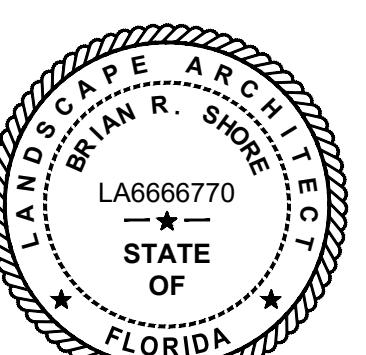
CONFORMED SET  
09/22/2025

### REFERENCE NOTES SCHEDULE AREA 3

<u>SYMBOL</u>	<u>CODE</u>	<u>DESCRIPTION</u>	<u>QTY</u>
	1	6" Thick Concrete Slab, Vehicular Access, Broom Finish	736 sf
	2	4" Thick Concrete Sidewalk, Broom Finish	14,320 sf
	3	Pool Deck, Non-slip Finish	1,827 sf

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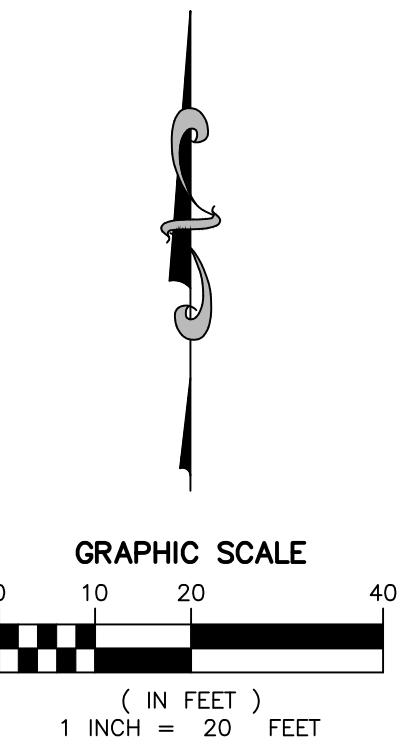
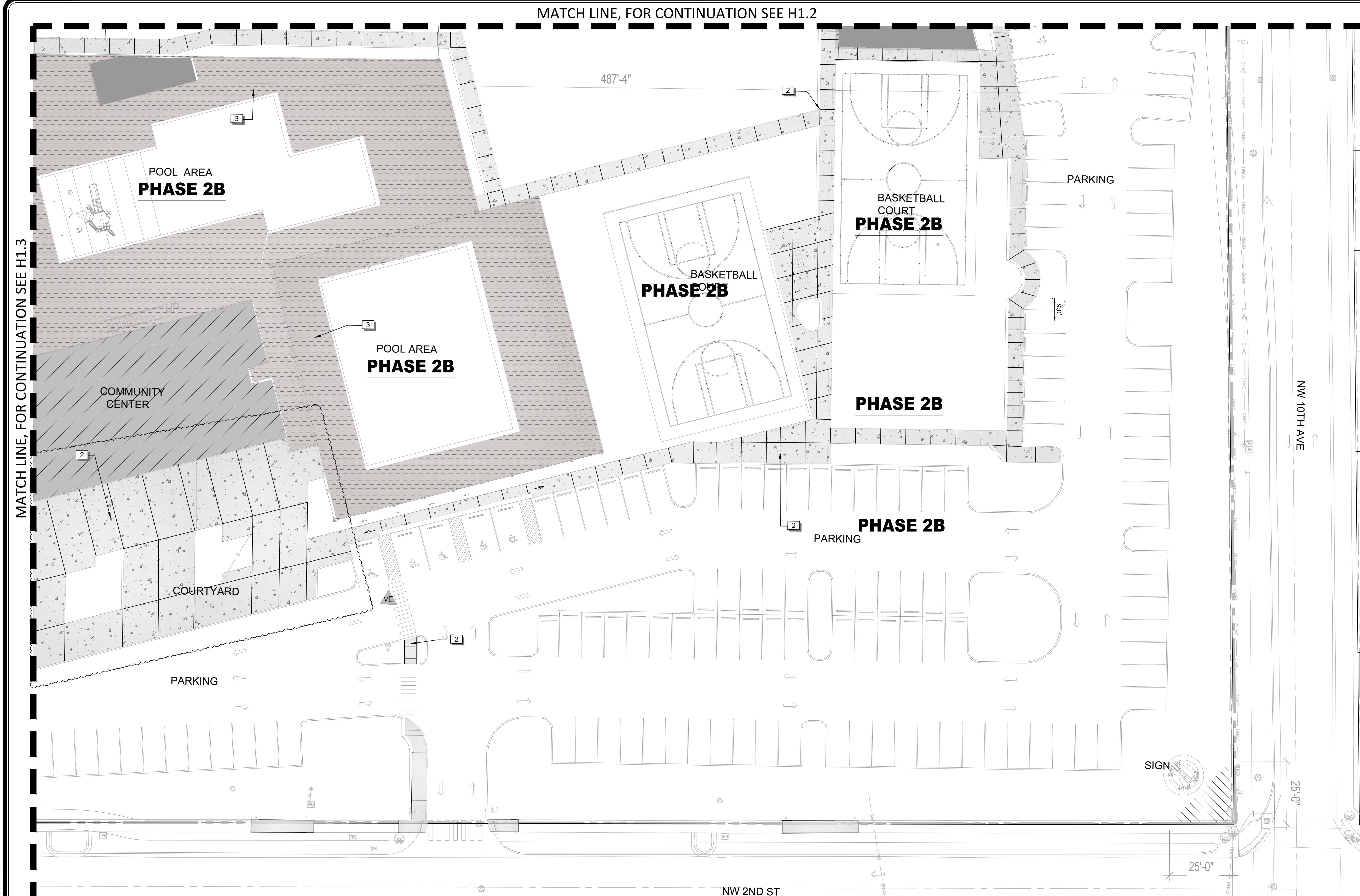
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# ALTERNATIVE-HARDSCAPE PLANS

CERTIFICATES OF AUTHORIZATION:		
LB6680		
DES.	DWN.	CHK.
PROJECT / FILE NO.		
21-00053		
DRAWING NO.		
H1.3.1		
DATE DRAWN:		
11/20/25		

**DELRAY BEACH POMPEY PARK REC C  
1101 NW. 2ND ST. DELRAY BEACH, FL 33444  
FOR: CITY OF DELRAY BEACH (PROJECT NO. 16-102)**



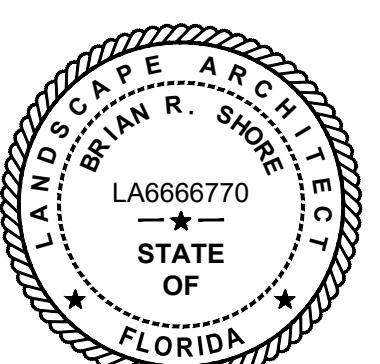
## ALTERNATE-HARDSCAPE PLANS

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**CITY OF DELRAY BEACH POMPEY PARK REC CENTER**

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FOR: CITY OF DELRAY BEACH (PROJECT NO.16-102)

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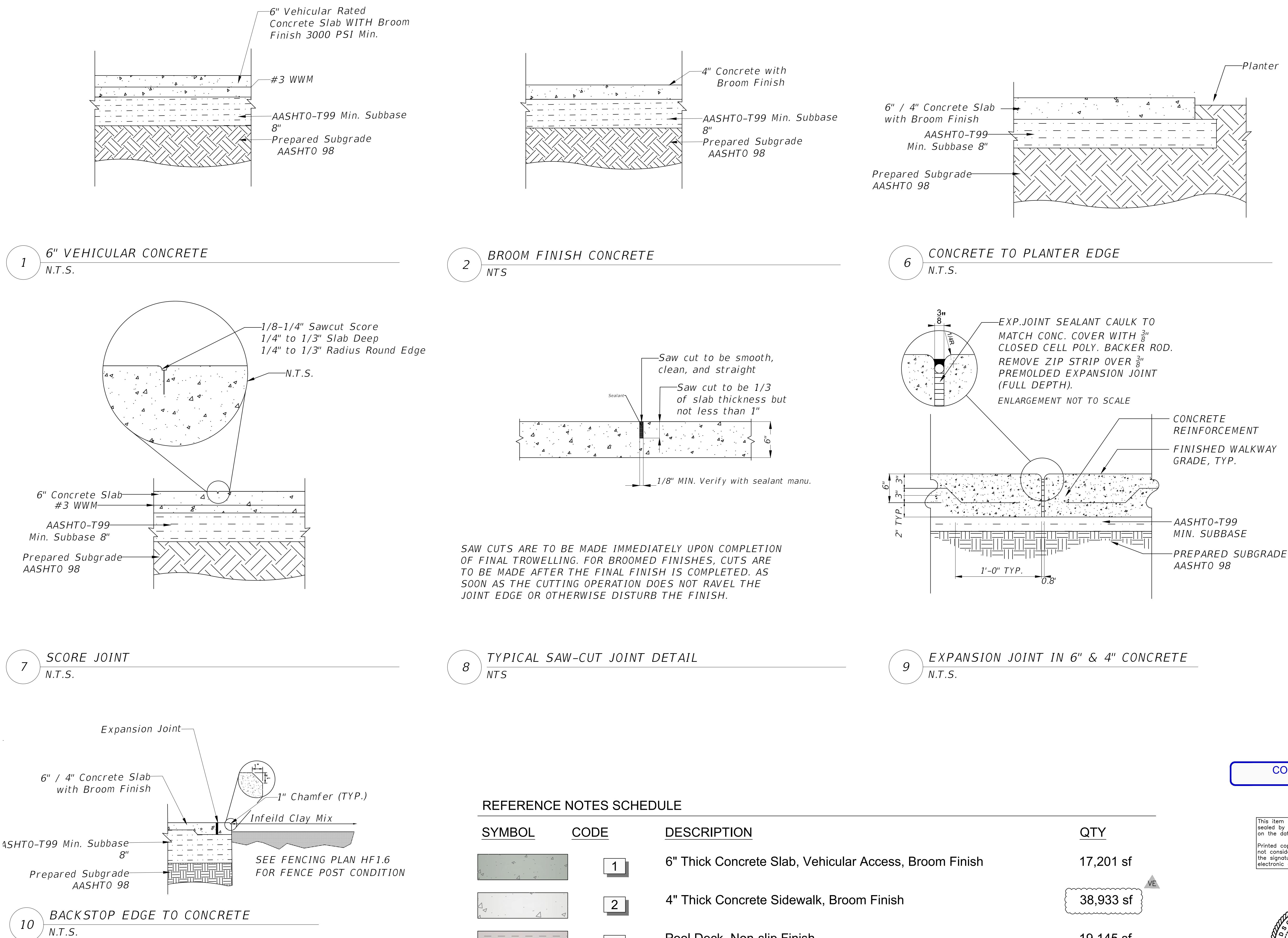
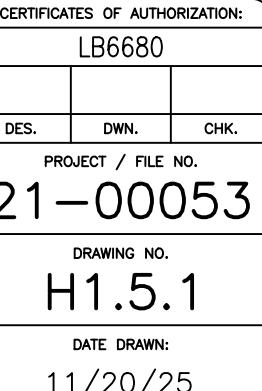
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11/20/2025  
APPROVED: BRIAN R. SHORE, PLA  
FLA. REGISTRATION NO. LA6666770  
DATE: 11/21/2025

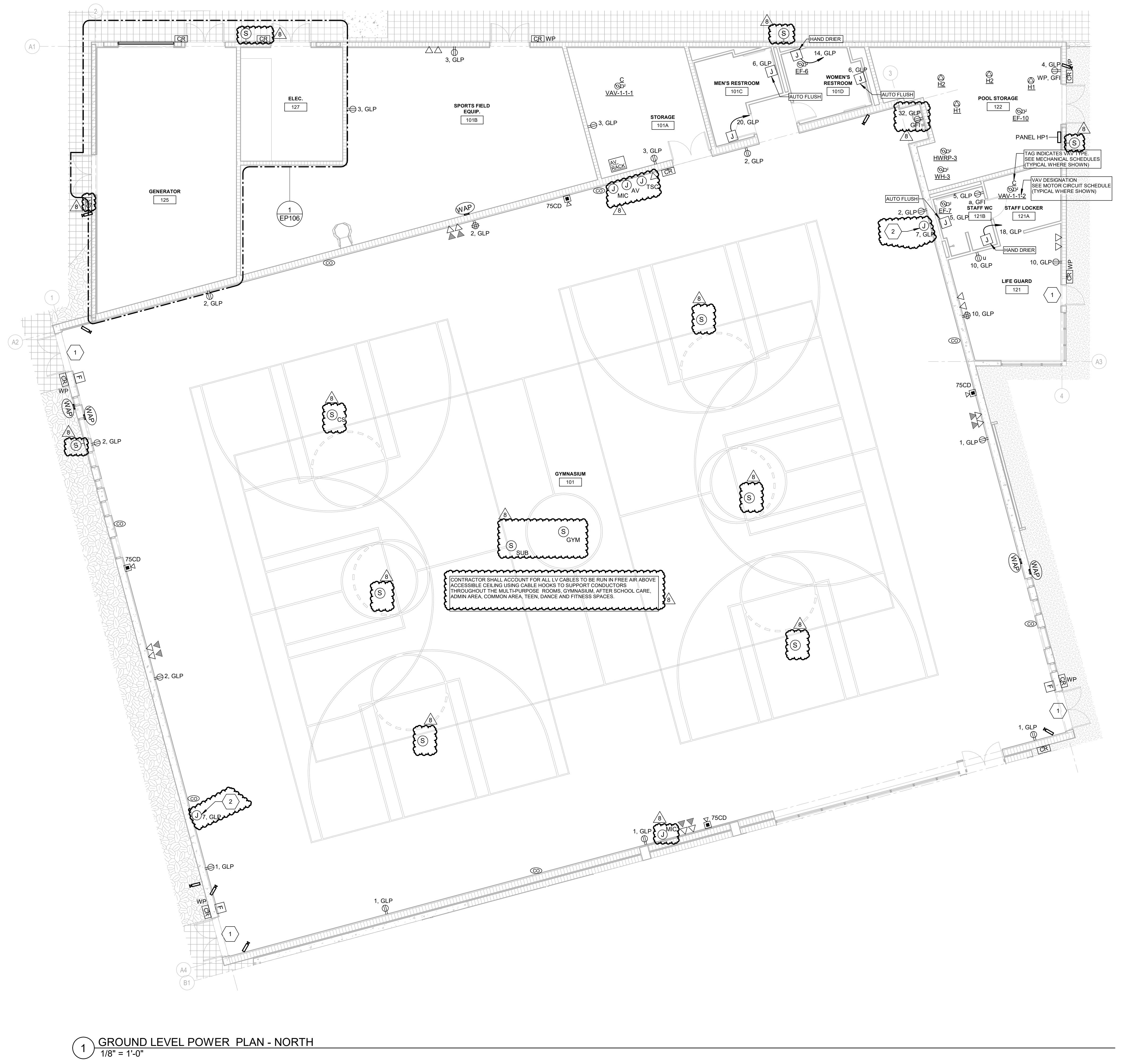
6 01/17/25 B.D. COMMENTS  
DATE: 2025  
REV. 1  
NO. 100  
11/20/2025

# CITY OF DELRAY BEACH POMPEY PARK REC CENTER

1101 NW. 2ND ST. DELRAY BEACH, FL 33444  
FOR: CITY OF DELRAY BEACH (PROJECT NO.16-102)

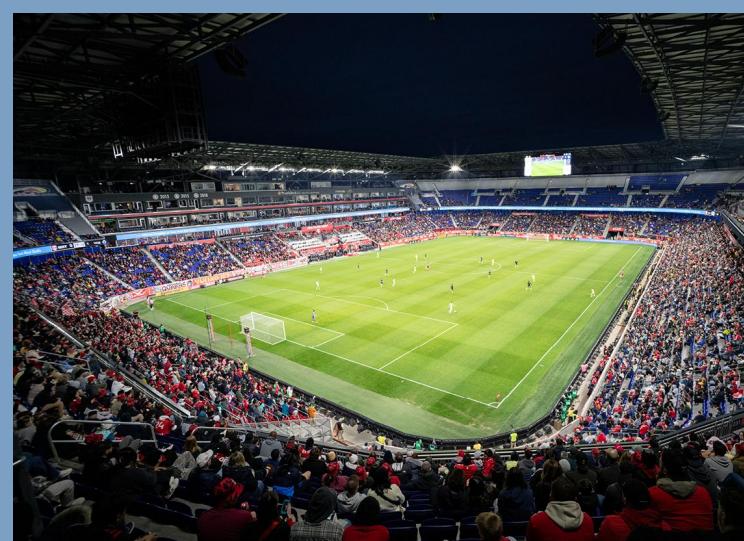
## ALTERNATE-HARDSCAPE DETAILS







We Make It Happen®



Sports Illustrated Stadium, Harrison, New Jersey, USA



UBS Arena, Elmont, New York, USA



Iowa Women of Achievement Bridge, Des Moines, Iowa, USA



Tottenham Hotspur FC Training Ground, Tottenham, London, UK

## Pompey Park

Delray Beach, FL



Sales Representative: Timhoff · Designed By: Logan Schlee · Design No.: 215549F · November 12, 2025

LIGHTING SYSTEM

Structure/Fixture Summary

Structure ID	Structure Height	Fixt. Attachment Ht.	Fixture Qty	Fixture Type	Load	Circuit
A1	70'	70'	2	TLC-LED-900 TLC-LED-1200 TLC-BT-575	1.76 kW	A
		70'	2		2.34 kW	A
		16'	1		0.57 kW	A
A2	70'	70'	3	TLC-LED-1200 TLC-LED-900 TLC-BT-575	3.51 kW	A
		70'	1		0.88 kW	A
		16'	1		0.57 kW	A
A3	70'	70'	3	TLC-LED-550 TLC-LED-550 TLC-BT-575 TLC-BT-575	1.62 kW	B
		70'	3		1.62 kW	C
		16'	1		0.57 kW	B
		16'	1		0.57 kW	C
A4	70'	70'	3	TLC-LED-550 TLC-BT-575	1.62 kW	B
		16'	1		0.57 kW	B
A5	70'	70'	3	TLC-LED-550 TLC-BT-575	1.62 kW	C
		16'	1		0.57 kW	C
B1	70'	70'	1	TLC-LED-900 TLC-LED-1200 TLC-LED-1500 TLC-LED-1200 TLC-BT-575	0.88 kW	A
		70'	2		2.34 kW	A
		70'	2		2.82 kW	A
		70'	3		3.51 kW	K
		16'	1		0.57 kW	A
B2	70'	70'	3	TLC-LED-550 TLC-LED-1200 TLC-LED-1200 TLC-LED-1500 TLC-BT-575	1.62 kW	D
		70'	2		2.34 kW	D
		70'	2		2.34 kW	A
		70'	3		4.23 kW	A
		16'	1		0.57 kW	A
B3-B4	70'	70'	2	TLC-LED-900 TLC-LED-1500 TLC-LED-1200 TLC-BT-575	1.76 kW	B
		70'	1		1.41 kW	B
		70'	1		1.17 kW	B
		16'	1		0.57 kW	B
B5	70'	70'	2	TLC-LED-1200 TLC-LED-900 TLC-BT-575	2.34 kW	C
		70'	2		1.76 kW	C
		20'	1		0.57 kW	C
		70'	1		0.57 kW	C
B6	70'	70'	3	TLC-LED-1200 TLC-LED-900 TLC-BT-575	3.51 kW	C
		70'	1		0.88 kW	C
		16'	1		0.57 kW	C
		70'	2		3.51 kW	C
BA3-BA2	40'	40'	2	TLC-LED-550	1.08 kW	F
		70'	2		2.82 kW	A
C1	70'	70'	2	TLC-LED-1500 TLC-LED-900 TLC-BT-575	1.76 kW	A
		70'	2		1.15 kW	A
		16'	2		1.15 kW	A
C2	70'	70'	1	TLC-LED-900 TLC-LED-1500 TLC-LED-1200 TLC-LED-1500 TLC-BT-575	0.88 kW	A
		70'	2		2.82 kW	J
		70'	3		3.51 kW	J
		70'	3		4.23 kW	A
		16'	2		1.15 kW	A
P1	60'	60'	1	TLC-LED-550 TLC-LED-550 TLC-LED-550	0.54 kW	G
		60'	2		1.08 kW	D
		60'	2		1.08 kW	E
P2-P3	60'	60'	2	TLC-LED-550	1.08 kW	E
		40'	2		1.08 kW	G
T1-T3	50'	50'	2	TLC-LED-550	1.08 kW	I
		50'	2		1.08 kW	I
T4	50'	50'	3	TLC-LED-550 TLC-LED-1200	3.51 kW	J
		50'	3		94.45 kW	
24			111			

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Baseball 1	35.39 kW	34
B	Baseball 2	14.22 kW	18
C	Baseball 3	14.03 kW	18
D	Family Pool	5.04 kW	7
E	Competition Pool	3.24 kW	6
F	Basketball 1	2.16 kW	4
G	Basketball 2	2.70 kW	5
I	Tennis	4.32 kW	8
J	Civic Lawn	9.84 kW	8
K	Batting Cages	3.51 kW	3



### Fixture Type Summary

Type	Circuit	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-BT-575	A	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8
TLC-BT-575	B	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	4
TLC-BT-575	C	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	4
TLC-LED-1200	A	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	9
TLC-LED-1200	B	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	2
TLC-LED-1200	C	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	5
TLC-LED-1200	D	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	2
TLC-LED-1200	J	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	6
TLC-LED-1200	K	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	3
TLC-LED-1500	A	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	10
TLC-LED-1500	B	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	2
TLC-LED-1500	J	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	2
TLC-LED-550	B	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	6
TLC-LED-550	C	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	6
TLC-LED-550	D	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	5
TLC-LED-550	E	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	6
TLC-LED-550	F	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	4
TLC-LED-550	G	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	5
TLC-LED-550	I	LED 5700K - 75 CRI	540W	67,000	>120,000	>120,000	>120,000	8
TLC-LED-900	A	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	7
TLC-LED-900	B	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	4
TLC-LED-900	C	LED 5700K - 75 CRI	880W	104,000	>120,000	>120,000	>120,000	3

### Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage							
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4

### Light Level Summary

Grid Name	Calculation Metric	Illumination Ave					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Baseball 1 (Infield)	Horizontal Illuminance	50.47	35.3	61.5	1.74	1.43	A	34
Baseball 1 (Outfield)	Horizontal Illuminance	30.75	19.6	40.7	2.07	1.57	A	34
Baseball 1 - Bullpens	Horizontal	31.18	21.5	41.8	1.94	1.45	A	34
Baseball 2 (Infield)	Horizontal Illuminance	31.53	23.1	37.8	1.63	1.37	B	18
Baseball 2 (Outfield)	Horizontal Illuminance	23.63	13.3	32.5	2.44	1.77	B	18
Baseball 2 - Bullpens	Horizontal	16.50	10.5	21.2	2.02	1.57	B	18
Baseball 3 (Infield)	Horizontal Illuminance	30.11	20.2	37.2	1.84	1.49	C	18
Baseball 3 (Outfield)	Horizontal Illuminance	22.05	13.2	33.8	2.56	1.67	C	18
Baseball 3 - Bullpens	Horizontal	13.64	10.6	18.2	1.73	1.29	C	18
Basketball 1	Horizontal Illuminance	31.40	26.2	37.9	1.44	1.20	F	4
Basketball 2	Horizontal Illuminance	34.56	26.9	44.0	1.64	1.29	G	5
Batting Cages	Horizontal	31.80	13.8	43.6	3.15	2.30	K	3
Civic Lawn	Horizontal	24.01	5.5	39.2	7.13	4.37	J	8
Competition Pool	Horizontal Illuminance	30.58	18.0	39.6	2.20	1.70	E	6
Competition Pool - Deck	Horizontal	21.78	8.4	37.7	4.46	2.58	E	6
Family Pool	Horizontal Illuminance	30.91	22.8	41.3	1.81	1.35	D	7
Family Pool - Deck	Horizontal	22.63	12.3	34.4	2.80	1.84	D	7
Tennis	Horizontal Illuminance	33.31	26.6	41.1	1.55	1.25	I	8
Waiting Area	Horizontal	8.08	5.6	9.9	1.76	1.44	G	5

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

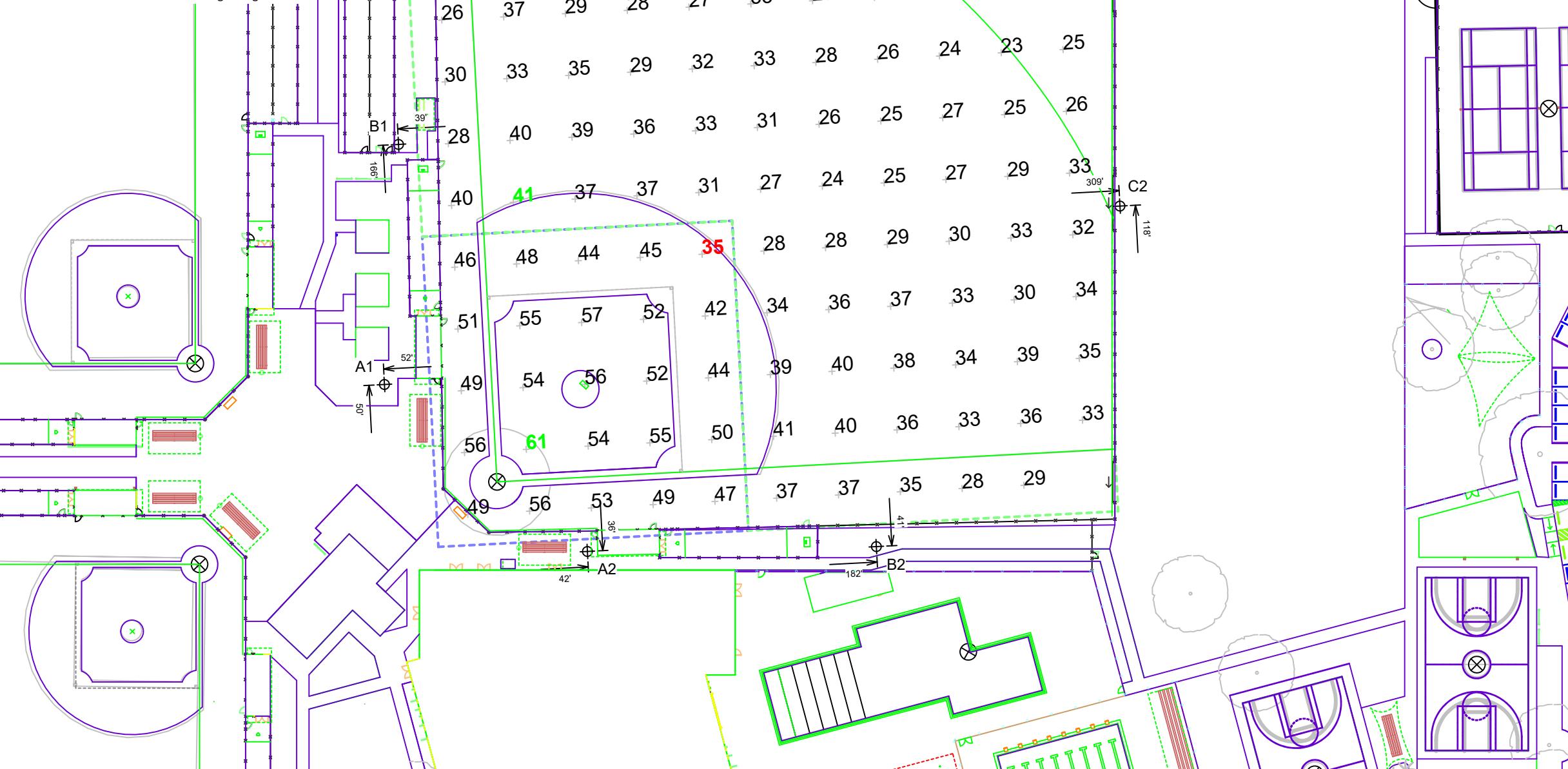


### Equipment List For Areas Shown

QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixtures			
					Fixture Type	QTY/POLE	This Grid	Other Grids
1	A1	70'	-	70'	TLC-LED-1200	2	2	0
				70'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
1	A2	70'	-	70'	TLC-LED-1200	3	3	0
				70'	TLC-LED-900	1	1	0
				15.5'	TLC-BT-575	1	1	0
1	B1	70'	-	70'	TLC-LED-1200	2/3*	2	3
				70'	TLC-LED-1500	2	2	0
				70'	TLC-LED-900	1	1	0
1	B2	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	3	3	0
				70'	TLC-LED-550	3*	0	3
1	C1	70'	-	70'	TLC-LED-1500	2	2	0
				70'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	2	2	0
1	C2	70'	-	70'	TLC-LED-1200	3*	0	3
				70'	TLC-LED-1500	3/2*	3	2
				70'	TLC-LED-900	1	1	0
1	C2	70'	-	70'	TLC-BT-575	2	2	0
Totals				47	34	13		

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration



# Pompey Park

Delray Beach, FL

## Grid Summary

Name: Baseball 1 - Bullpens  
Size: Irregular 265'/362'/300'  
Spacing: 10.0' x 10.0'  
Height: 3.0' above grade

## Illumination Summary

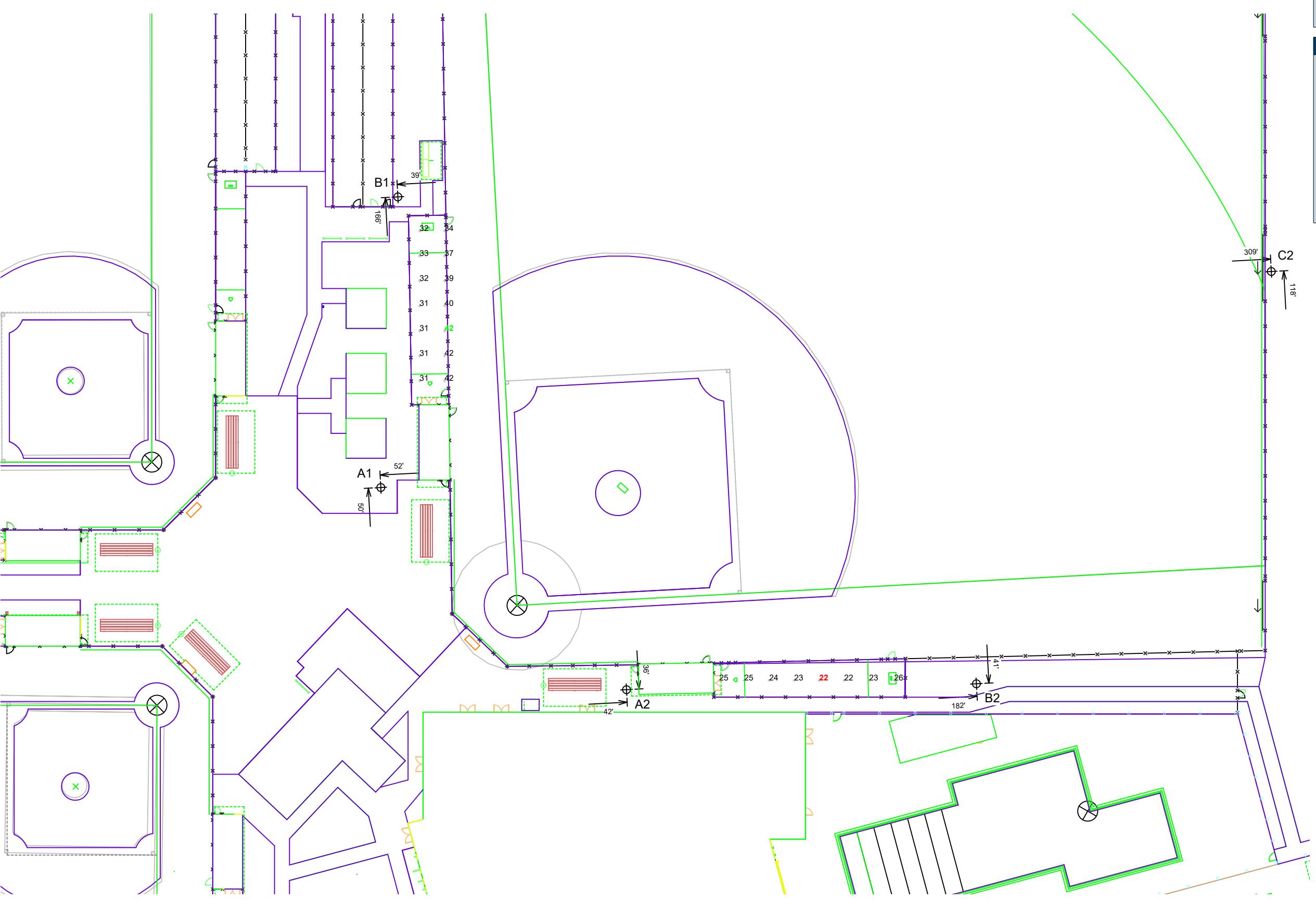
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	31.18
Scan Average	41.8
Maximum:	21.5
Minimum:	1.45
Avg/Min:	1.94
Max/Min:	1.36
UG (adjacent pts):	0.02
CU:	22
No. of Points:	34
Fixture Information	
Applied Circuits:	A
No. of Fixtures:	34
Total Load:	35.39 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



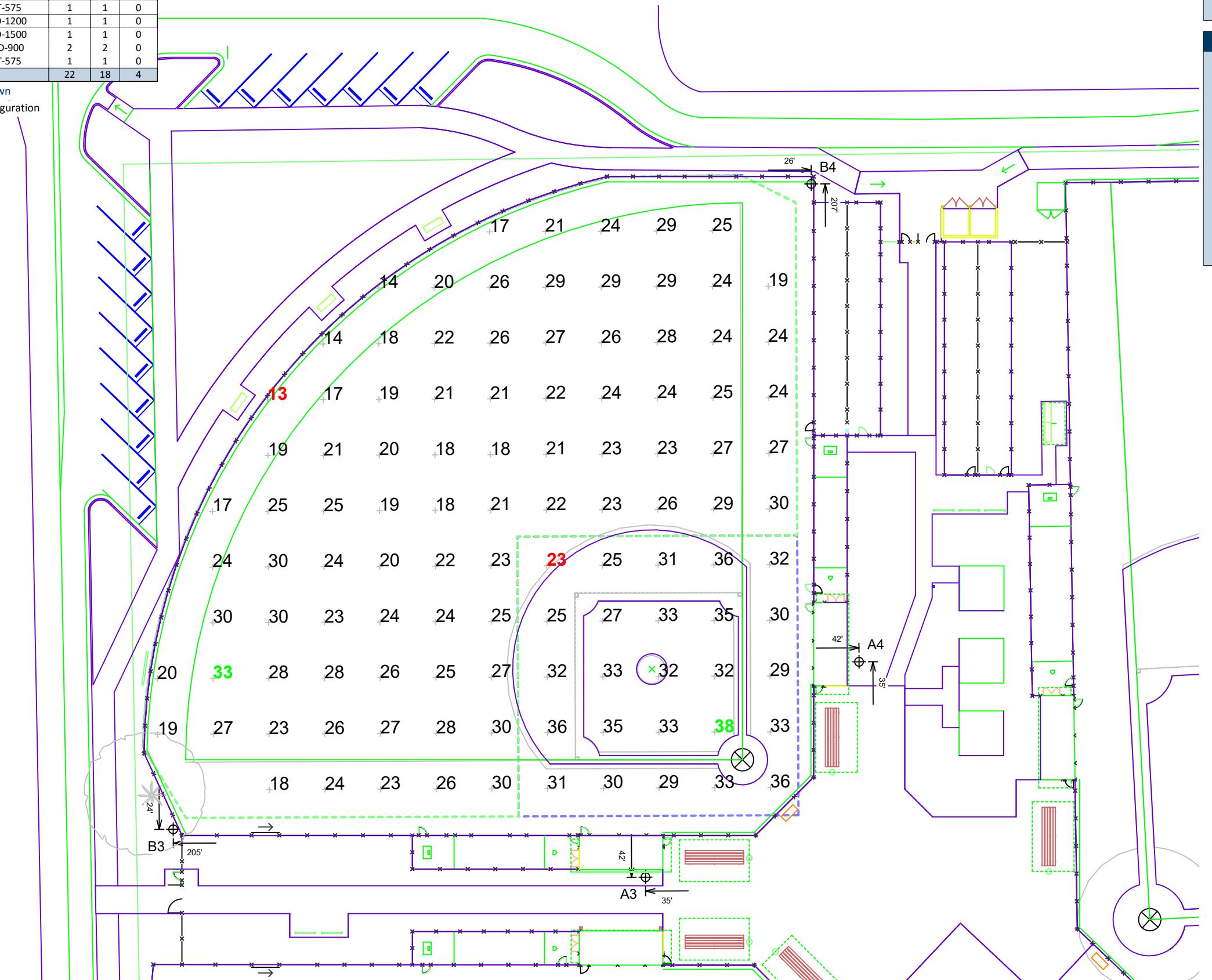
Pole location(s)  $\oplus$  dimensions are relative to 0,0 reference point(s)  $\ominus$

### Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
1	A3	70'	-	70'	TLC-LED-550	3/3*	3	3
				15.5'	TLC-BT-575	2	1	1
1	A4	70'	-	70'	TLC-LED-550	3	3	0
				15.5'	TLC-BT-575	1	1	0
2	B3-B4	70'	-	70'	TLC-LED-1200	1	1	0
				70'	TLC-LED-1500	1	1	0
				70'	TLC-LED-900	2	2	0
				15.5'	TLC-BT-575	1	1	0
4				Totals		22	18	4

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 40  
0' 40' 80'

ENGINEERED DESIGN By: Logan Schlee • File #215549F • 12-Nov-25

Pole location(s) dimensions are relative to 0,0 reference point(s)

### Pompey Park

Delray Beach, FL

#### Grid Summary

Name:	Baseball 2
Size:	Irregular 200'x200'/200'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

#### Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Infield	Outfield
Guaranteed Average	30 20
Scan Average:	31.53 23.63
Maximum:	37.8 32.5
Minimum:	23.1 13.3
Avg/Min:	1.37 1.77
Guaranteed Max/Min	2.5 3
Max/Min:	1.63 2.44
UG (adjacent pts)	1.28 1.59
CU:	0.65
No. of Points:	25 84
Fixture Information	
Applied Circuits:	B
No. of Fixtures:	18
Total Load:	14.22 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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ILLUMINATION SUMMARY

# Pompey Park

Delray Beach, FL

## Grid Summary

Name: Baseball 2 - Bullpens  
Size: Irregular 200'x200'x200'  
Spacing: 10.0' x 10.0'  
Height: 3.0' above grade

## Illumination Summary

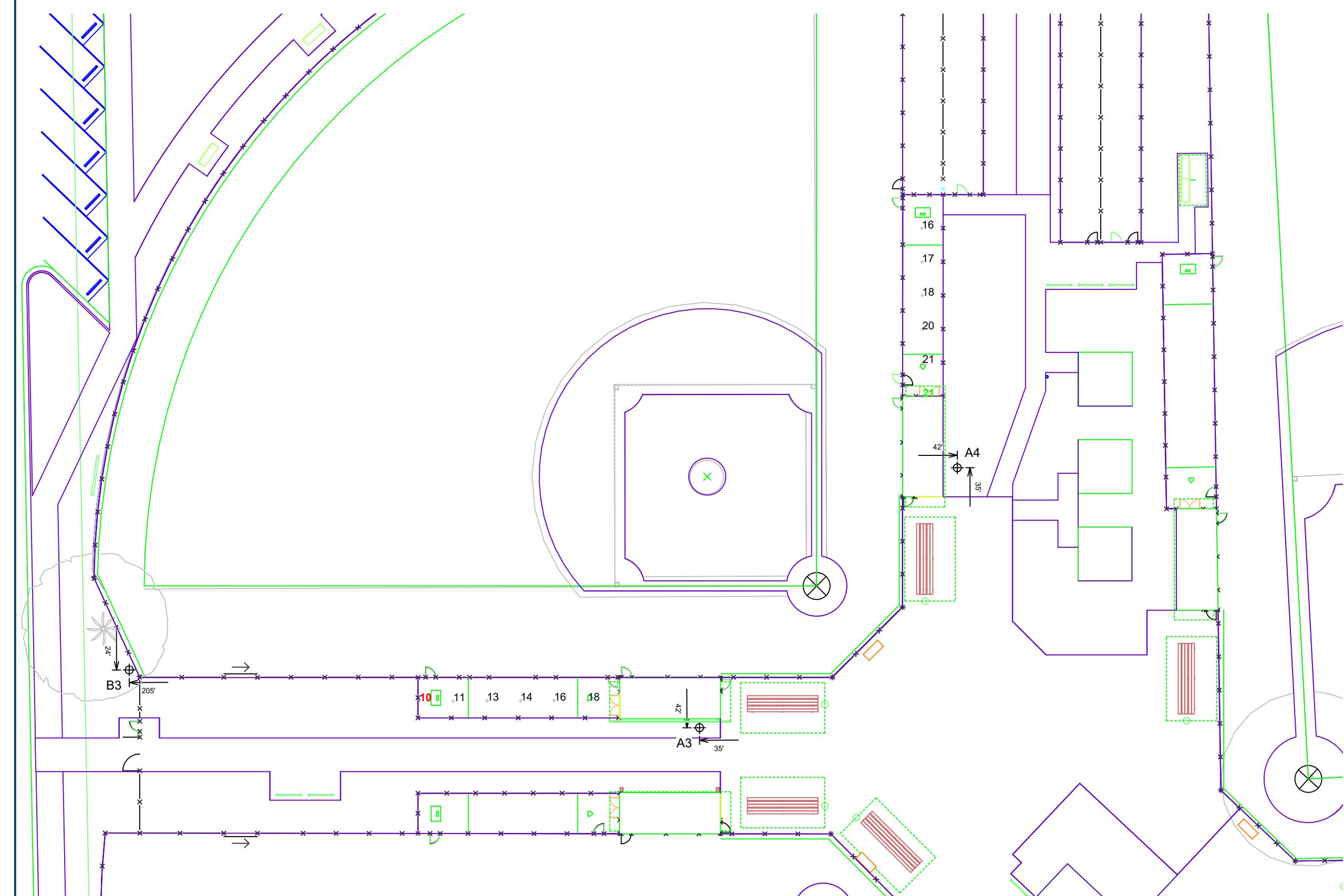
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	16.50
Scan Average	16.50
Maximum:	21.2
Minimum:	10.5
Avg/Min:	1.57
Max/Min:	2.02
UG (adjacent pts):	1.14
CU:	0.01
No. of Points:	12
FIXTURE INFORMATION	
Applied Circuits:	B
No. of Fixtures:	18
Total Load:	14.22 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

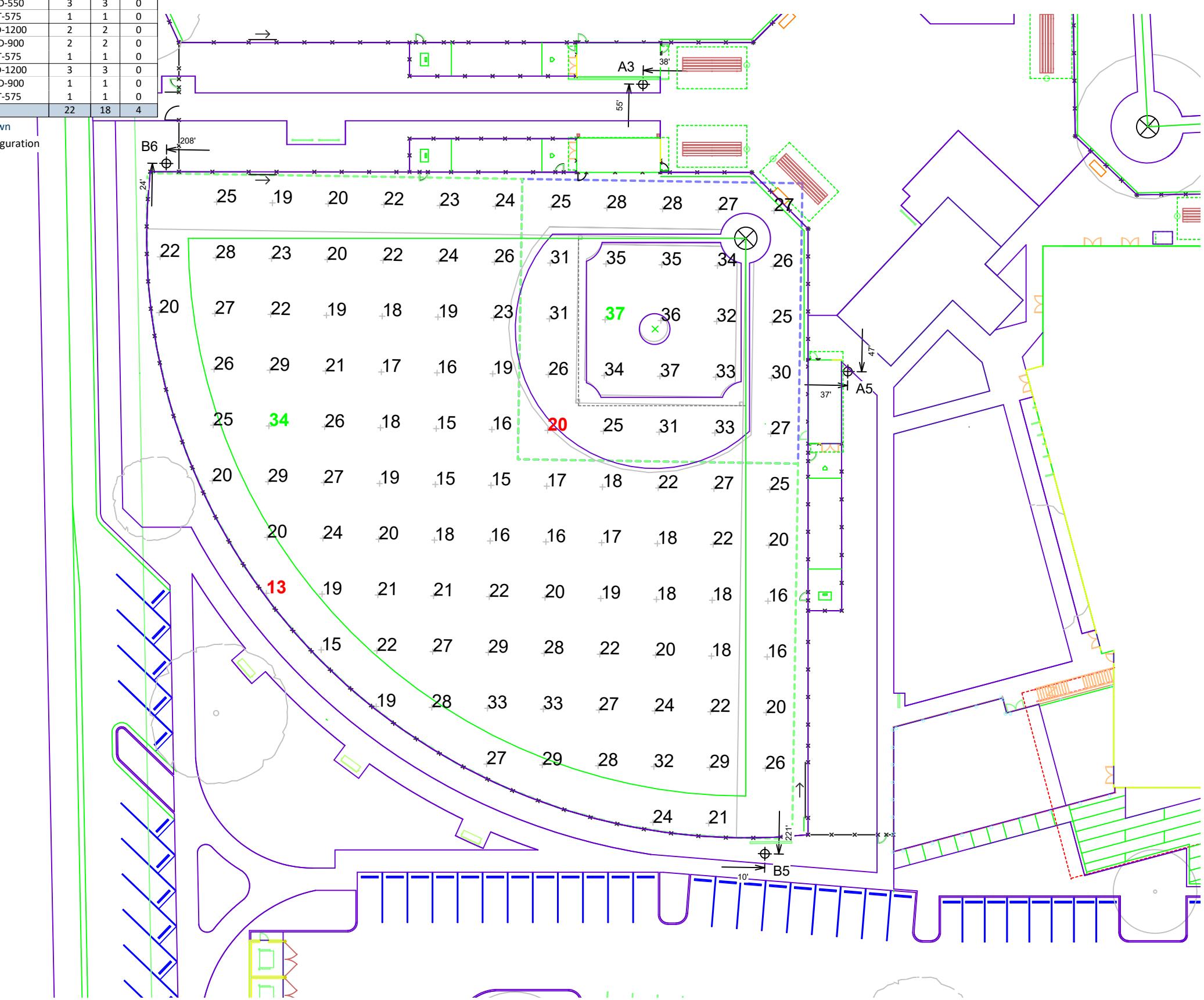


### Equipment List For Areas Shown

QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	Fixtures				
				ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	This Grid	Other Grids
1	A3	70'	-	70'	TLC-LED-550	3/3*	3	3
				15.5'	TLC-BT-575	2	1	1
1	A5	70'	-	70'	TLC-LED-550	3	3	0
				15.5'	TLC-BT-575	1	1	0
1	B5	70'	-	70'	TLC-LED-1200	2	2	0
				70'	TLC-LED-900	2	2	0
1	B6	70'	-	20'	TLC-LED-1200	3	3	0
				15.5'	TLC-LED-900	1	1	0
1	B6	70'	-	15.5'	TLC-BT-575	1	1	0
				4	Totals	22	18	4

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration



### Pompey Park

Delray Beach, FL

#### Grid Summary

Name:	Baseball 3
Size:	215'/215'/215' - basepath 60'
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

#### Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Guaranteed Average	Infield 30      Outfield 20
Scan Average:	30.11      22.05
Maximum:	37.2      33.8
Minimum:	20.2      13.2
Avg/Min:	1.49      1.67
Guaranteed Max/Min	Infield 2.5      Outfield 3
Max/Min:	1.84      2.56
UG (adjacent pts)	1.33      1.54
CU:	0.65
No. of Points:	25      88
Fixture Information	
Applied Circuits:	C
No. of Fixtures:	18
Total Load:	14.03 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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SCALE IN FEET 1 : 40

0' 40' 80'

ENGINEERED DESIGN By: Logan Schlee • File #215549F • 12-Nov-25

Pole location(s) dimensions are relative to 0,0 reference point(s)

ILLUMINATION SUMMARY

# Pompey Park

Delray Beach, FL

## Grid Summary

Name: Baseball 3 - Bullpens  
Size: 215'/215'/215' - basepath 60'  
Spacing: 10.0' x 10.0'  
Height: 3.0' above grade

## Illumination Summary

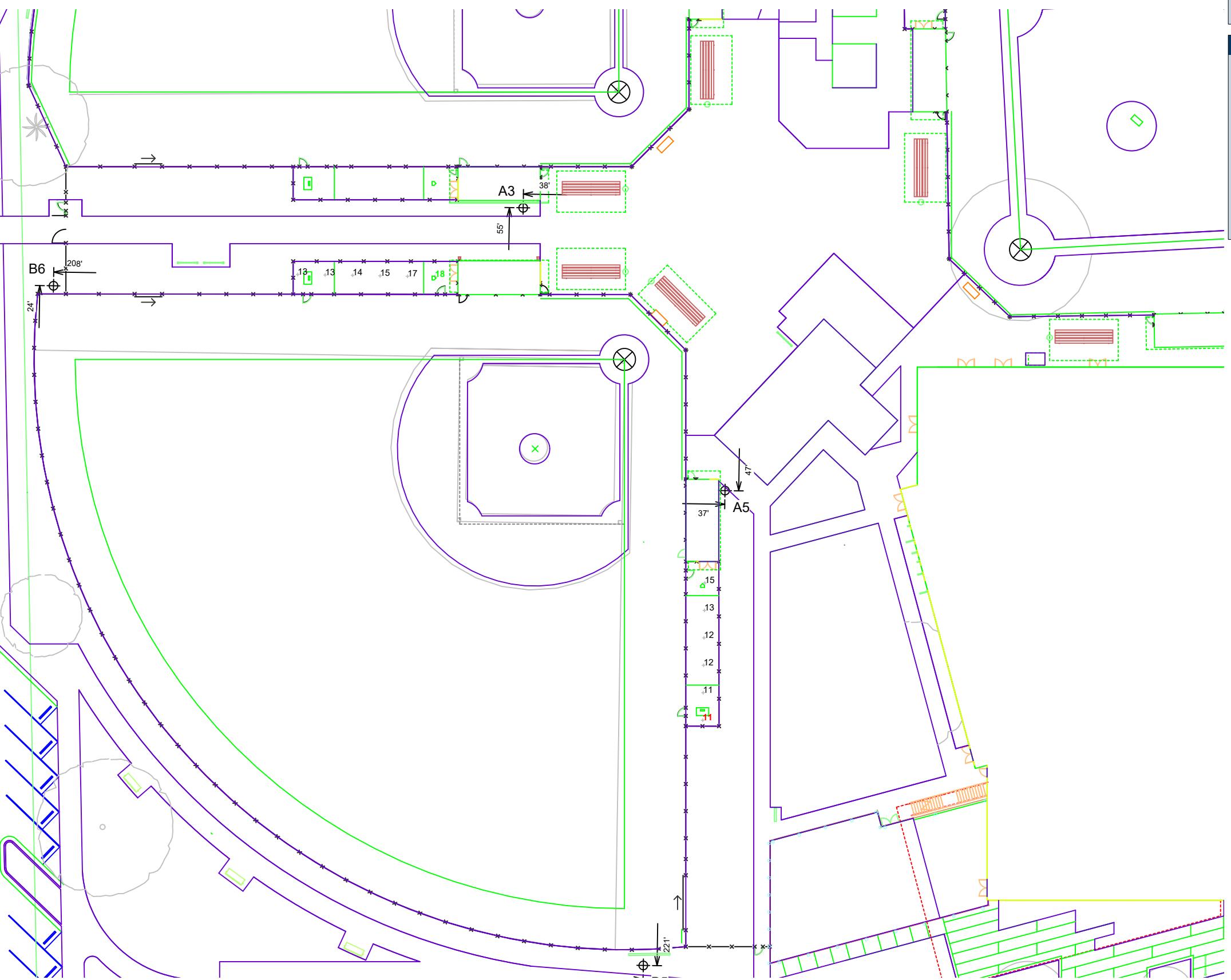
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	13.64
Scan Average	13.64
Maximum	18.2
Minimum	10.6
Avg/Min	1.29
Max/Min	1.73
UG (adjacent pts)	1.15
CU	0.01
No. of Points	12
<b>FIXTURE INFORMATION</b>	
Applied Circuits	C
No. of Fixtures	18
Total Load	14.03 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

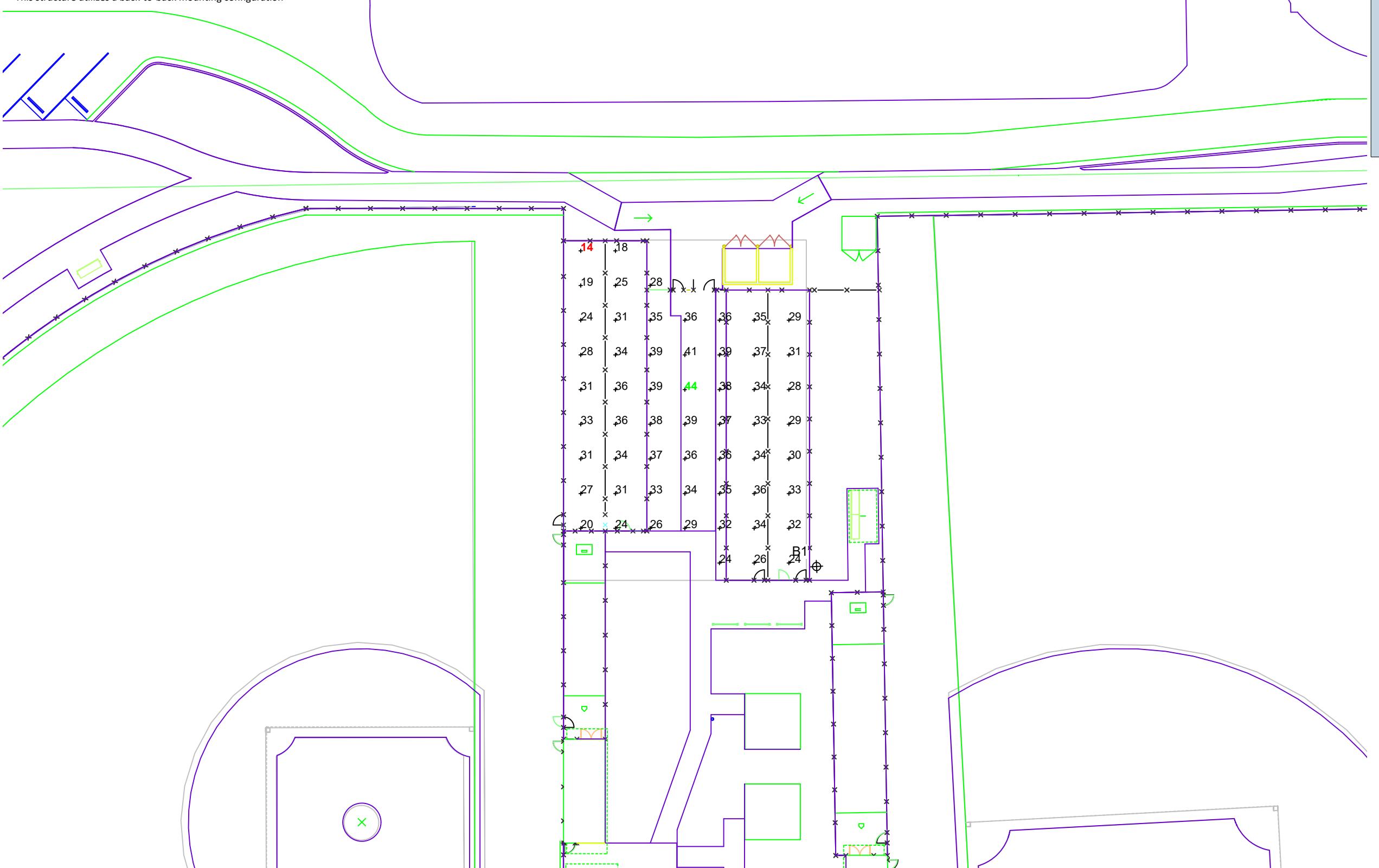


SCALE IN FEET 1 : 40  
0' 40' 80'  
Pole location(s) + dimensions are relative to 0,0 reference point(s) ☒

Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
1	B1	70'	-	70'	TLC-LED-1200	2/3*	3	2
				70'	TLC-LED-1500	2	0	2
				70'	TLC-LED-900	1	0	1
				15.5'	TLC-BT-575	1	0	1
1				Totals		9	3	6

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration



## Pompey Park

Delray Beach, FL

### Grid Summary

Name: Batting Cages  
 Spacing: 10.0' x 10.0'  
 Height: 3.0' above grade

### Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	31.80
Maximum:	43.6
Minimum:	13.8
Avg/Min:	2.30
Max/Min:	3.15
UG (adjacent pts):	1.42
CU:	0.51
No. of Points:	57
Fixture Information	
Applied Circuits:	K
No. of Fixtures:	3
Total Load:	3.51 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

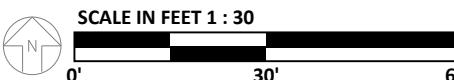
Installation Requirements: Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

### Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
1	B2	70'	-	70'	TLC-LED-1200	2/2*	2	2
				70'	TLC-LED-1500	3	0	3
		15.5'		70'	TLC-LED-550	3*	3	0
				15.5'	TLC-BT-575	1	0	1
1	P1	60'	-	60'	TLC-LED-550	4/1*	2	3
2	Totals					16	7	9

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration

SCALE IN FEET 1 : 30  


ENGINEERED DESIGN By: Logan Schlee • File #215549F • 12-Nov-25

### Pompey Park

Delray Beach, FL

#### Grid Summary

Name:	Family Pool
Size:	129' x 53'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

#### Illumination Summary

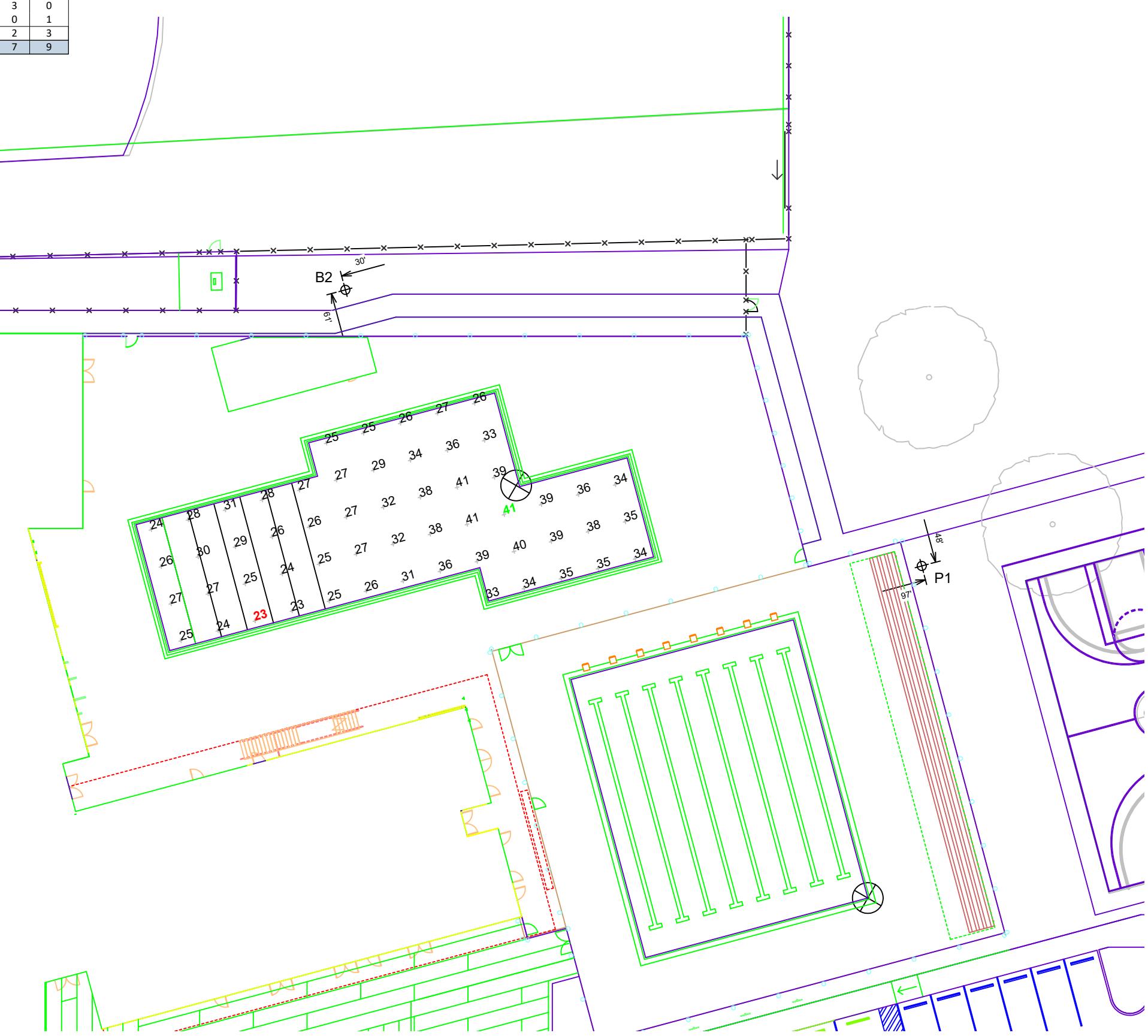
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	50
Guaranteed Average	50
Scan Average:	30.91
Maximum:	41.3
Minimum:	22.8
Avg/Min:	1.35
Guaranteed Max/Min	2.5
Max/Min:	1.81
UG (adjacent pts)	1.32
CU:	0.27
No. of Points:	56
Fixture Information	
Applied Circuits:	D
No. of Fixtures:	7
Total Load:	5.04 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



Pole location(s)  dimensions are relative to 0,0 reference point(s) 

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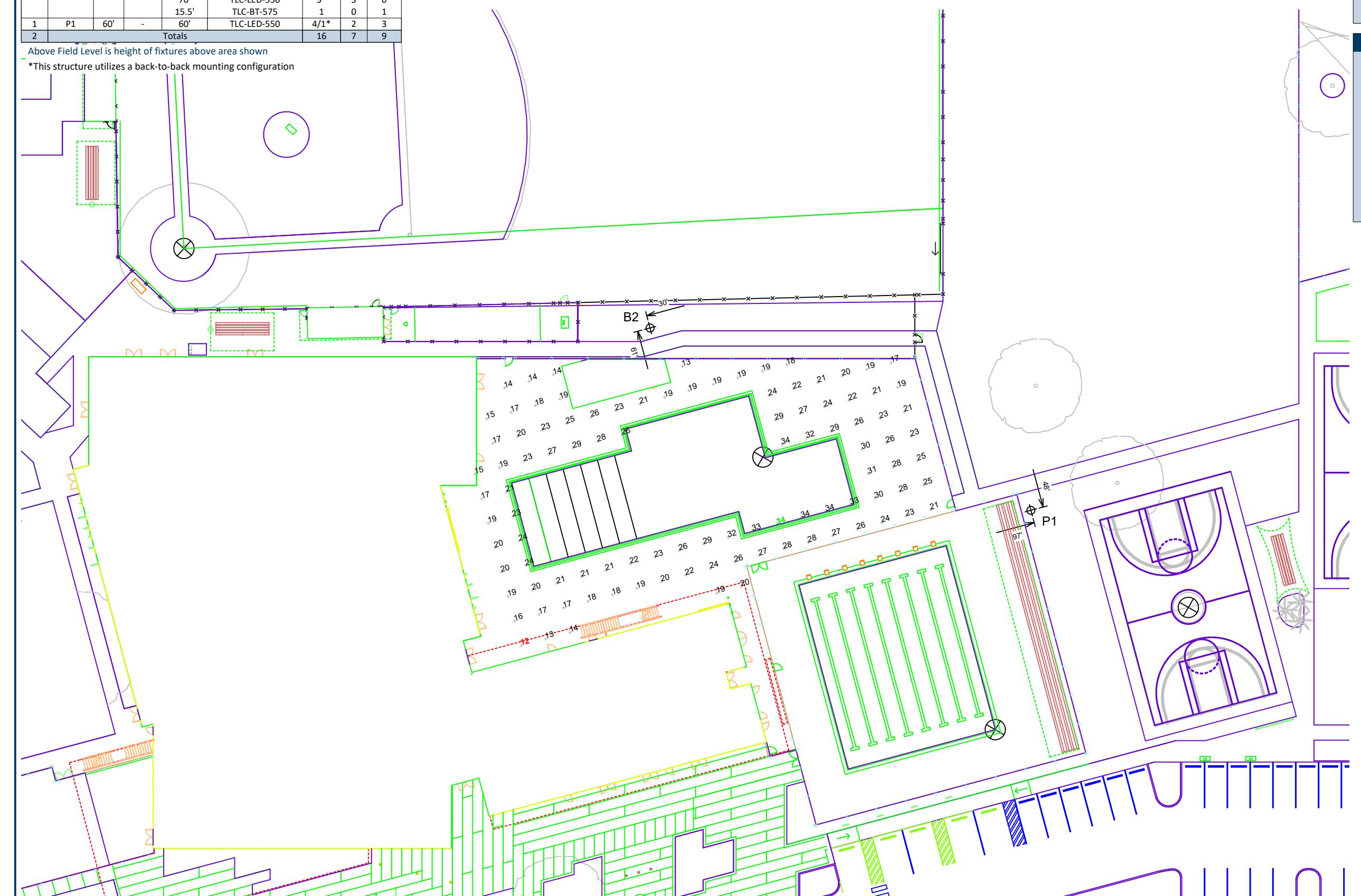
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ILLUMINATION SUMMARY

Equipment List For Areas Shown							
Structure				Fixtures			
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	This Grid
1	B2	70'	-	70'	TLC-LED-1200	2/2*	2
				70'	TLC-LED-1500	3	0
				70'	TLC-LED-550	3*	3
				15.5'	TLC-BT-575	1	0
1	P1	60'	-	60'	TLC-LED-550	4/1*	2
2				Totals		16	7
							9

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration.



Pole location(s)  $\oplus$  dimensions are relative  
to 0,0 reference point(s)  $\otimes$

# Pompey Park

## Delray Beach, FL

## Grid Summary

<b>Name:</b> Family Pool - Deck
Size: 129' x 53'
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

## Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLE	
Scan Average:	Entire Grid <b>22.63</b>
Maximum:	34.4
Minimum:	12.3
Avg/Min:	1.84
Max/Min:	<b>2.80</b>
UG (adjacent pts):	1.43
CU:	0.35
No. of Points:	101
<b>Fixture Information</b>	
Applied Circuits:	D
No. of Fixtures:	7
Total Load:	5.04 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



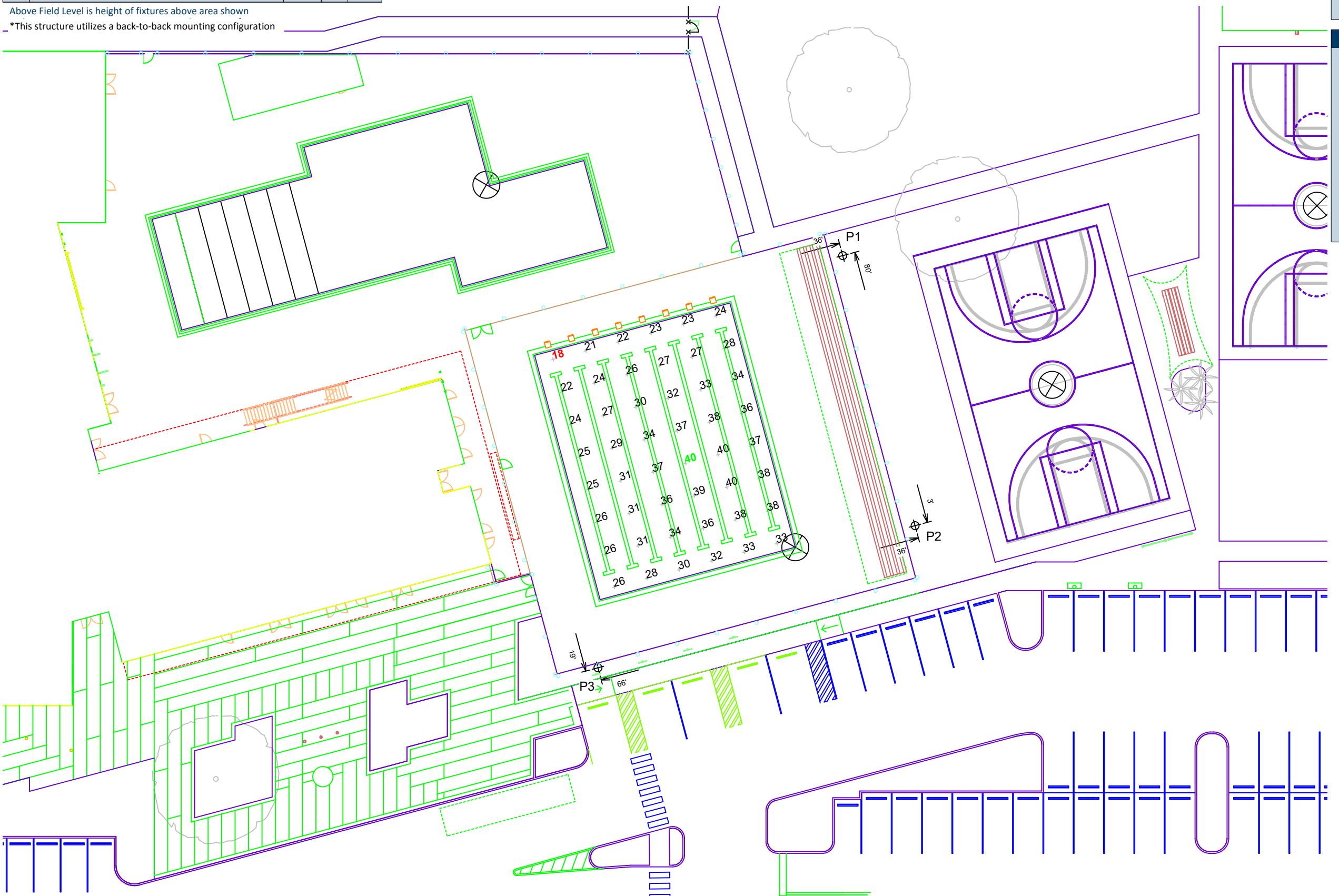
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### Equipment List For Areas Shown

QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	Fixtures			
				ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID
1	P1	60'	-	60'	TLC-LED-550	4/1*	2
2	P2-P3	60'	-	60'	TLC-LED-550	2	2
3						9	6
							Totals

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 30

0' 30' 60'

ENGINEERED DESIGN By: Logan Schlee • File #215549F • 12-Nov-25

Pole location(s)  $\oplus$  dimensions are relative to 0,0 reference point(s)  $\otimes$

### Pompey Park

Delray Beach, FL

#### Grid Summary

Name:	Competition Pool
Size:	60' x 75'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

#### Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	30
Scan Average:	30.58
Maximum:	39.6
Minimum:	18.0
Avg/Min:	1.70
Guaranteed Max/Min:	3
Max/Min:	2.20
UG (adjacent pts):	1.26
CU:	0.36
No. of Points:	48
Fixture Information	
Applied Circuits:	E
No. of Fixtures:	6
Total Load:	3.24 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



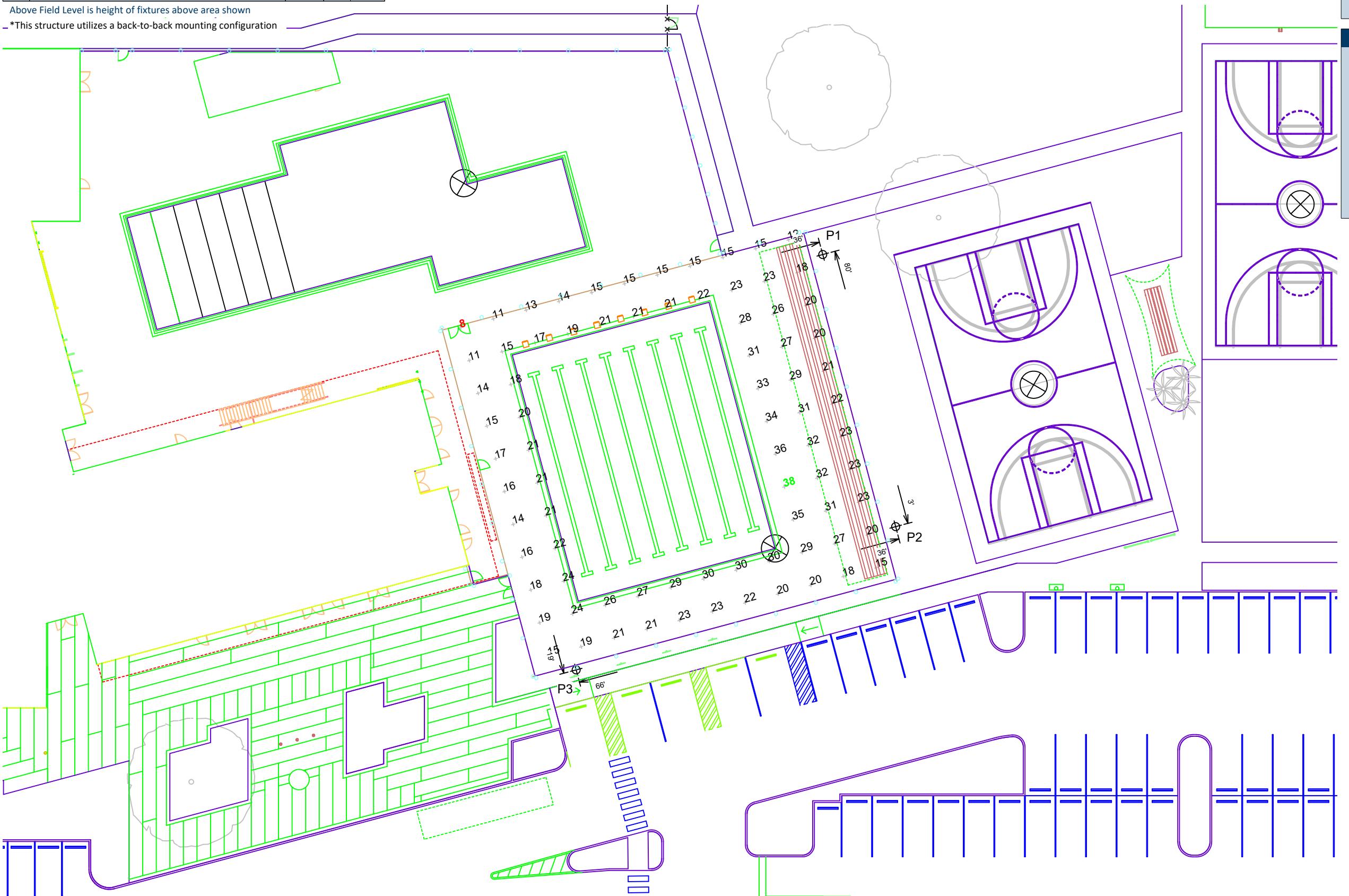
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ILLUMINATION SUMMARY

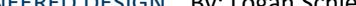
Equipment List For Areas Shown									
Structure				Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRID	
1	P1	60'	-	60'	TLG-LED-550	4/1*	2	3	
2	P2-P3	60'	-	60'	TLG-LED-550	2	2	0	
3	Totals					9	6	3	

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration.



Pole location(s)  $\oplus$  dimensions are relative  
to 0,0 reference point(s)  $\otimes$

SCALE IN FEET 1 : 30  
  
 ENGINEERED DESIGN By: Logan Schlee • File #215549E • 12-Nov-2023

## Pompey Park

## Delray Beach, FL

## Grid Summary

**me: Competition Pool - Deck**  
size: 60' x 75'  
ing: 10.0' x 10.0'  
ght: 3.0' above grade

## **Illumination Summary**

MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Range:	<b>21.78</b>
Avg:	37.7
Sum:	8.4
Min:	2.58
Max:	<b>4.46</b>
Units:	1.55
CU:	0.42
Counts:	79
<b>ON</b>	
Units:	E
Places:	<b>6</b>
Pad:	3.24 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the **"Musco Control System Summary"** for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

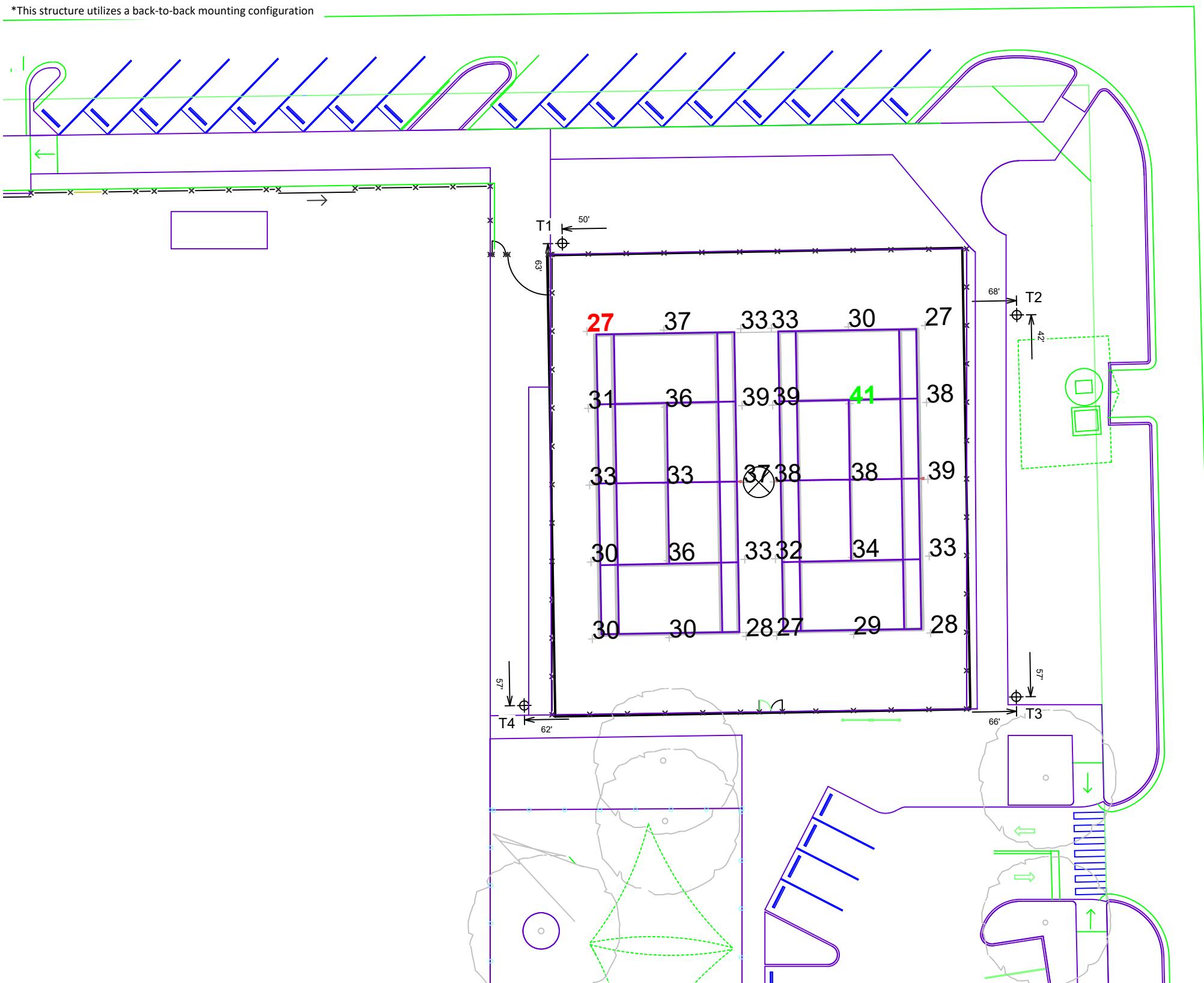


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Equipment List For Areas Shown								
Structure			Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
3	T1-T3	50'	-	50'	TLC-LED-550	2	2	0
1	T4	50'	-	50'	TLC-LED-1200	3*	0	3
				50'	TLC-LED-550	2	2	0
4						11	8	3
Totals								

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration



## Pompey Park

Delray Beach, FL

### Grid Summary

Name:	Tennis
Size:	2 Court - 12' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

### Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	30
Guaranteed Average	30
Scan Average:	33.31
Maximum:	41.1
Minimum:	26.6
Avg/Min:	1.25
Guaranteed Max/Min	2.5
Max/Min:	1.55
UG (adjacent pts)	0.00
CU:	0.73
No. of Points:	30
Fixture Information	
Applied Circuits:	1
No. of Fixtures:	8
Total Load:	4.32 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

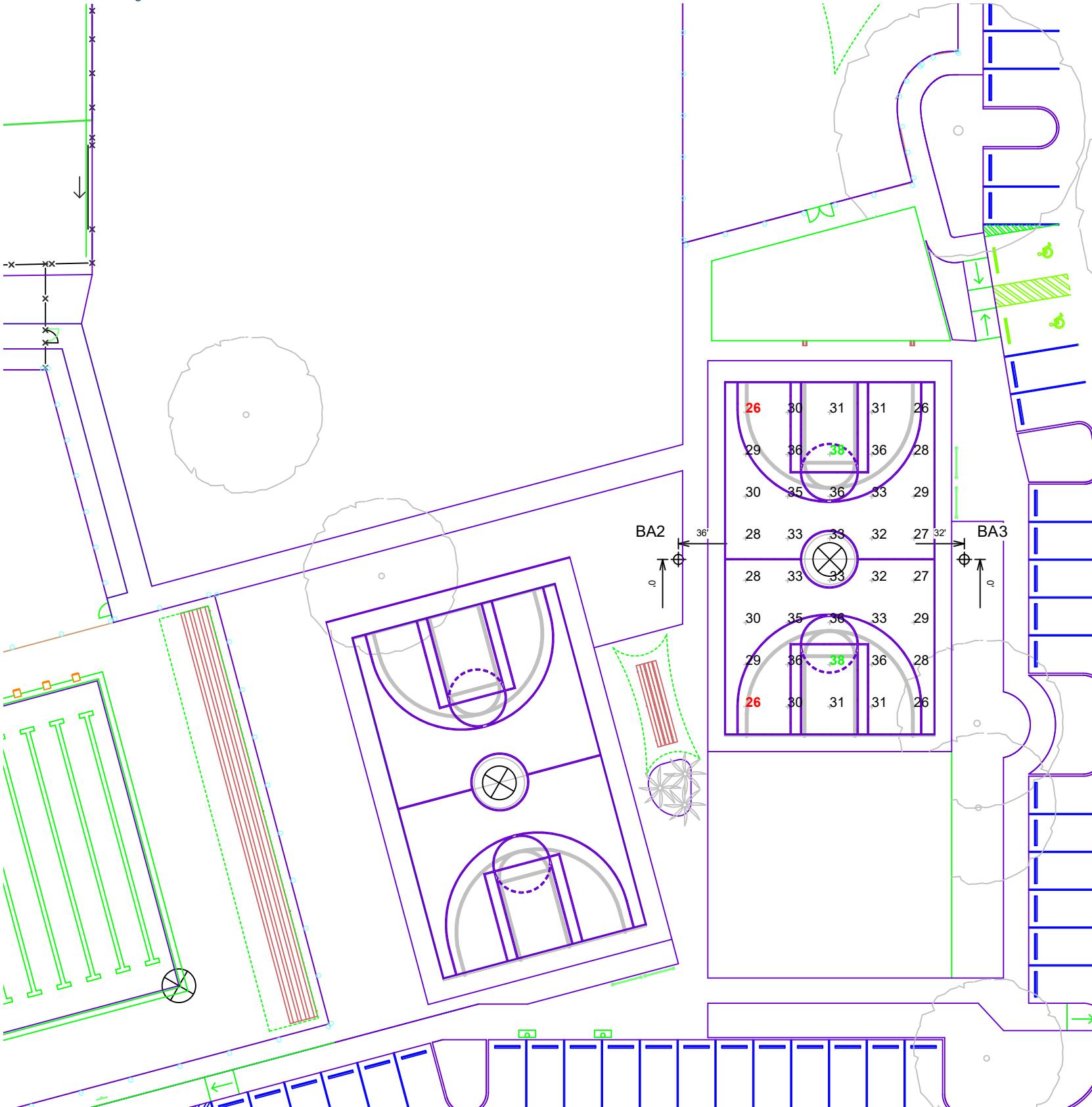
**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

Equipment List For Areas Shown								
Structure			Fixtures					
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
2	BA1-BA2	40'	-	40'	TLC-LED-550	2	2	0
2				Totals		4	4	0

Above Field Level is height of fixtures above area shown



SCALE IN FEET 1 : 30  
 0' 30' 60'  
 ENGINEERED DESIGN By: Logan Schlee • File #215549F • 12-Nov-25

Pole location(s) dimensions are relative to 0,0 reference point(s)

## Pompey Park

Delray Beach, FL

### Grid Summary

Name:	Basketball 1
Size:	84' x 50'
Spacing:	10.0' x 10.0'
Height:	3.0' above grade

### Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	30
Guaranteed Average	30
Scan Average:	31.40
Maximum:	37.9
Minimum:	26.2
Avg/Min:	1.20
Guaranteed Max/Min	3
Max/Min:	1.44
UG (adjacent pts):	1.29
CU:	0.50
No. of Points:	40
Fixture Information	
Applied Circuits:	F
No. of Fixtures:	4
Total Load:	2.16 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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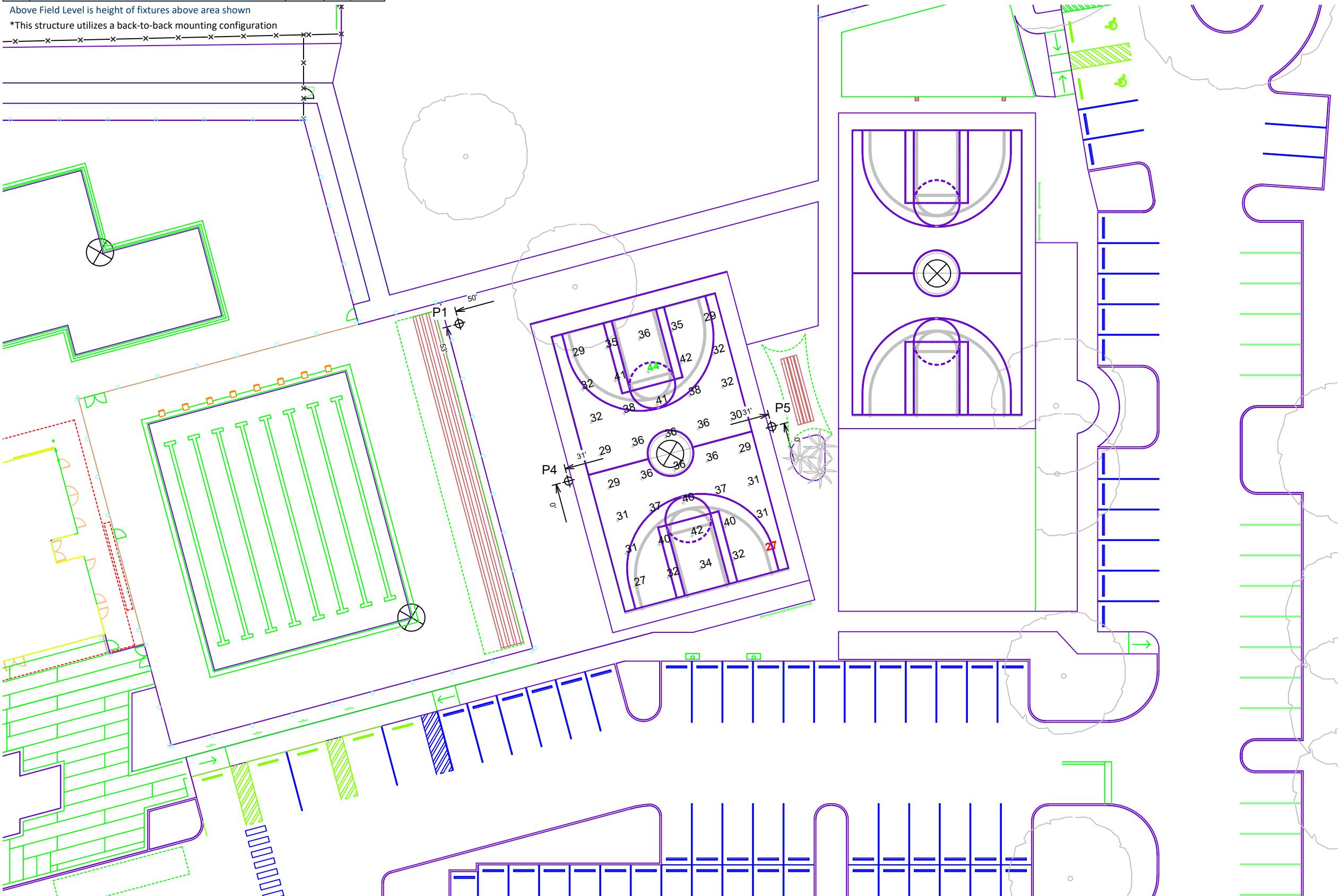
ILLUMINATION SUMMARY

## Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRID
1	P1	60'	-	60'	TLC-LED-550	4/1*	1	4
2	P4-P5	40'	-	40'	TLC-LED-550	2	2	0
3	Totals					9	5	4

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration.



Pole location(s)  $\oplus$  dimensions are relative  
to 0,0 reference point(s)  $\otimes$

SCALE IN FEET 1 : 30  
  
 ENGINEERED DESIGN By: Logan Schlee • File #215549E • 12-Nov-21

## Pompey Park

## Delray Beach, FL

## Grid Summary

<b>Name:</b> Basketball 2
<b>Size:</b> 84' x 50'
<b>Spacing:</b> 10.0' x 10.0'
<b>Height:</b> 3.0' <u>above grade</u>

## Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLE	
<b>Guaranteed Average:</b>	<b>30</b>
Scan Average:	34.56
Maximum:	44.0
Minimum:	26.9
Avg/Min:	1.29
<b>Guaranteed Max/Min:</b>	<b>3</b>
Max/Min:	1.64
UG (adjacent pts):	1.30
CU:	0.44
No. of Points:	40
Fixture Information	
Applied Circuits:	6
<b>No. of Fixtures:</b>	<b>5</b>
Total Load:	2.70 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

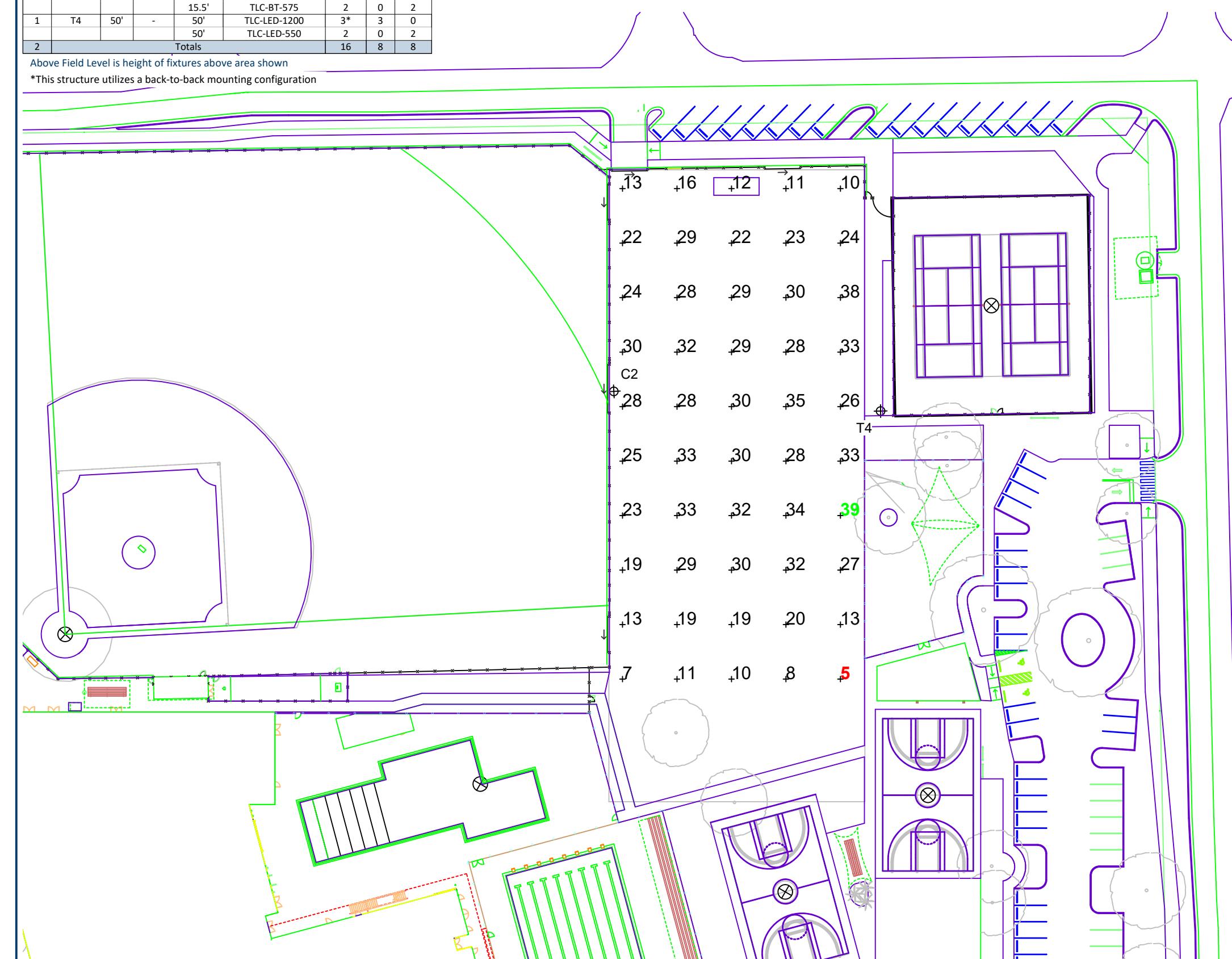


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Equipment List For Areas Shown								
Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
1	C2	70'	-	70'	TLC-LED-1200	3*	3	0
				70'	TLC-LED-1500	3/2*	2	3
				70'	TLC-LED-900	1	0	1
				15.5'	TLC-BT-575	2	0	2
1	T4	50'	-	50'	TLC-LED-1200	3*	3	0
				50'	TLC-LED-550	2	0	2
2	Totals					16	8	8

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration



SCALE IN FEET 1 : 60  
 0' 60' 120'

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## Pompey Park

Delray Beach, FL

### Grid Summary

Name: Civic Lawn
Spacing: 30.0' x 30.0'
Height: 3.0' above grade

### Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	24.01
Maximum:	39.2
Minimum:	5.5
Avg/Min:	4.37
Max/Min:	7.13
UG (adjacent pts):	2.41
CU:	0.86
No. of Points:	50
Fixture Information	
Applied Circuits:	J
No. of Fixtures:	8
Total Load:	9.84 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



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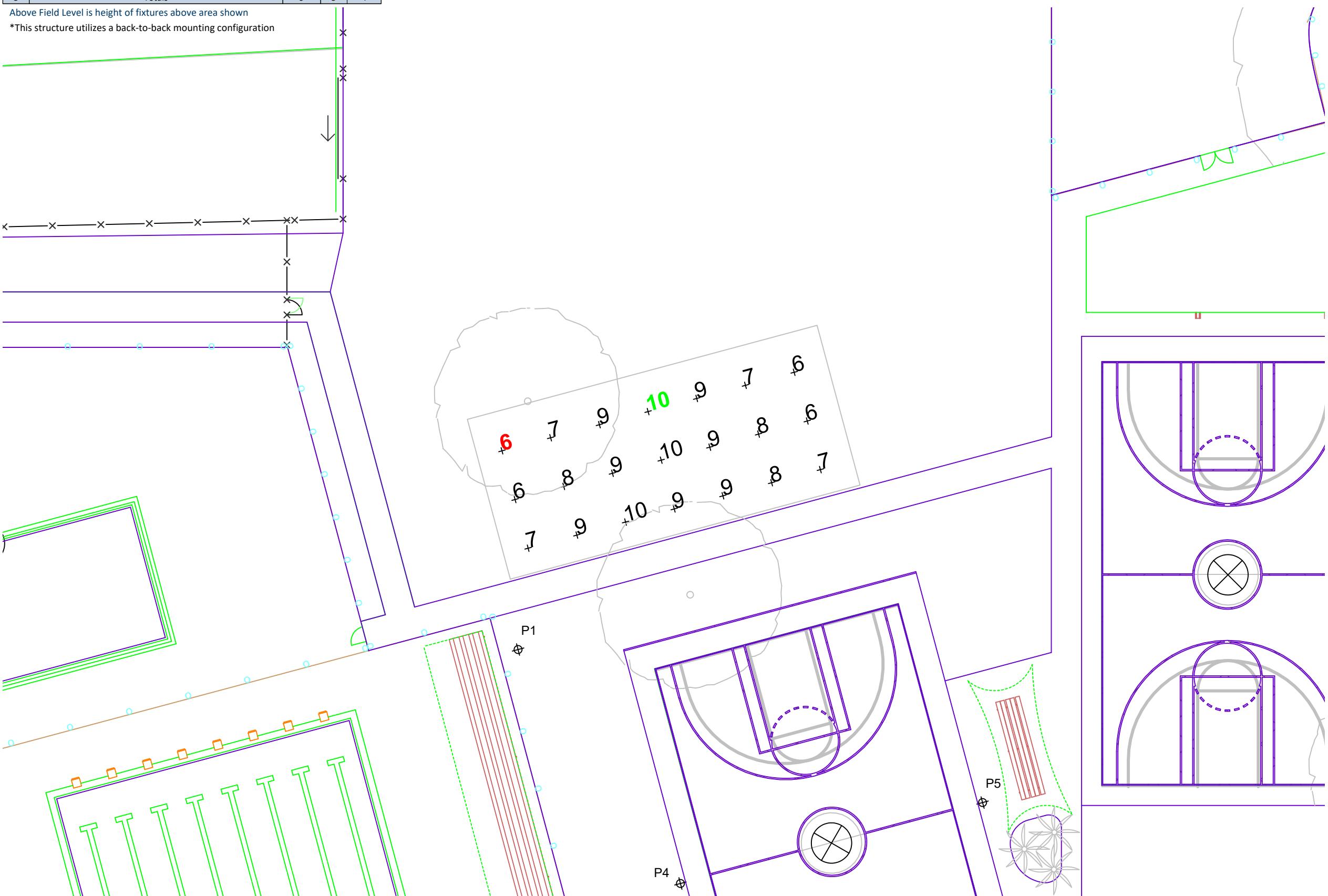
ILLUMINATION SUMMARY

### Equipment List For Areas Shown

Structure				Fixtures				
QTY	STRUCTURE ID	SIZE	GRADE ELEVATION	ABOVE FIELD LEVEL	Fixture Type	QTY/POLE	THIS GRID	OTHER GRIDS
1	P1	60'	-	60'	TLC-LED-550	4/1*	1	4
2	P4-P5	40'	-	40'	TLC-LED-550	2	2	0
3						Totals	9	5

Above Field Level is height of fixtures above area shown

\*This structure utilizes a back-to-back mounting configuration



### Pompey Park

Delray Beach, FL

#### Grid Summary

Name: Waiting Area
Spacing: 10.0' x 10.0'
Height: 3.0' above grade

#### Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	Scan Average: 8.08
Maximum:	9.9
Minimum:	5.6
Avg/Min:	1.44
Max/Min:	1.76
UG (adjacent pts):	1.37
CU:	0.05
No. of Points:	21
Fixture Information	
Applied Circuits:	G
No. of Fixtures:	5
Total Load:	2.70 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

Field Measurements: Individual field measurements may vary from computer-calculated predictions.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

# Pompey Park

Delray Beach, FL

## Grid Summary

Name: Spill - Across Road  
Spacing: 30.0'  
Height: 3.0' above grade

## Illumination Summary

INITIAL HORIZONTAL FOOTCANDLES

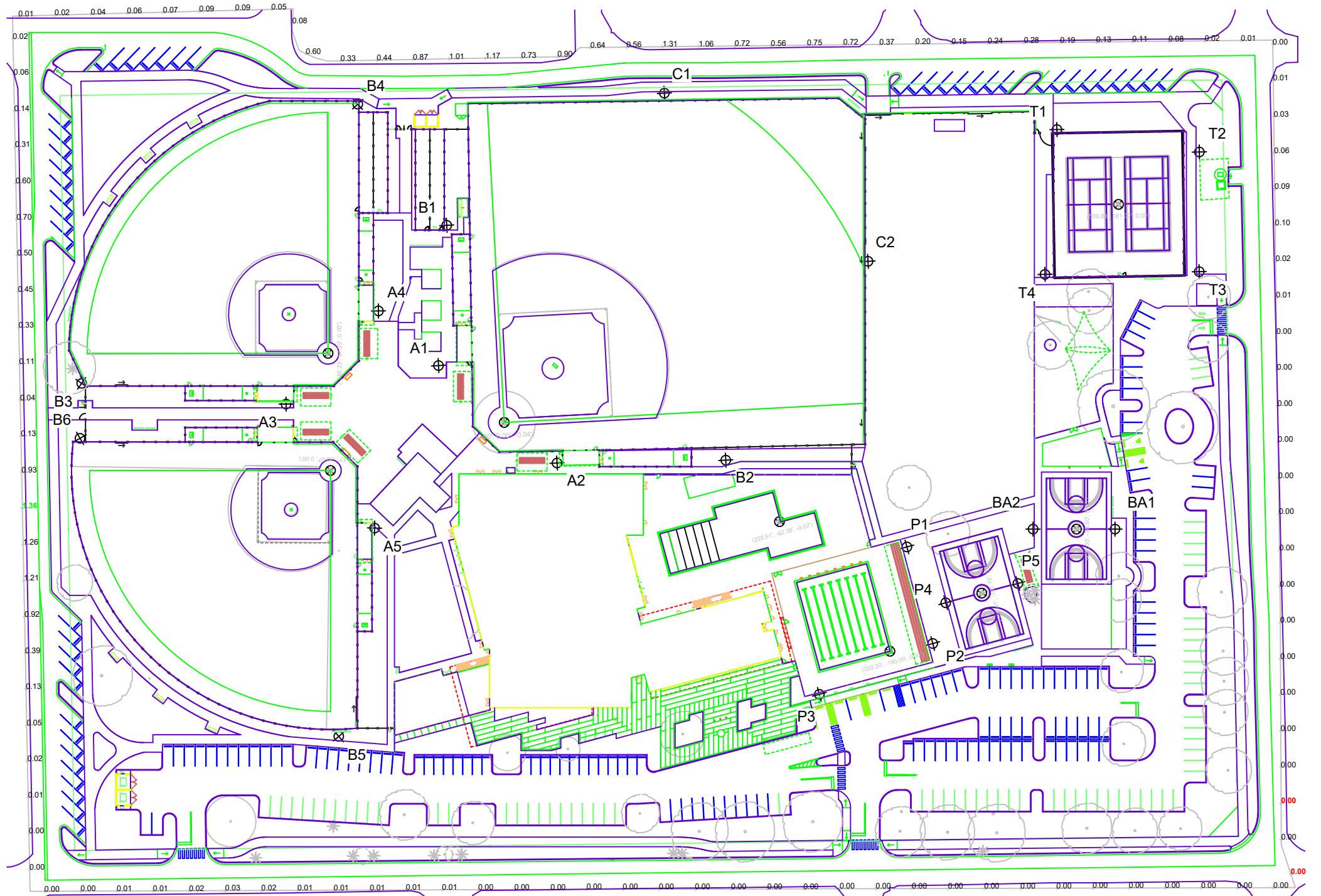
Entire Grid  
Scan Average: 0.2081  
Maximum: 1.360  
Minimum: 0.000  
CU: 0.00  
No. of Points: 119  
**FIXTURE INFORMATION**  
Applied Circuits: A,B,C,D,E,F,G,H,I,J,K  
No. of Fixtures: 111  
Total Load: 94.45 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE IN FEET 1 : 100

0' 100' 200'

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Pole location(s) dimensions are relative to 0,0 reference point(s)

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ILLUMINATION SUMMARY

# Pompey Park

Delray Beach, FL

## Grid Summary

Name: Spill - Across Road  
Spacing: 30.0'  
Height: 3.0' above grade

## Illumination Summary

INITIAL MAX VERTICAL FOOTCANDLES

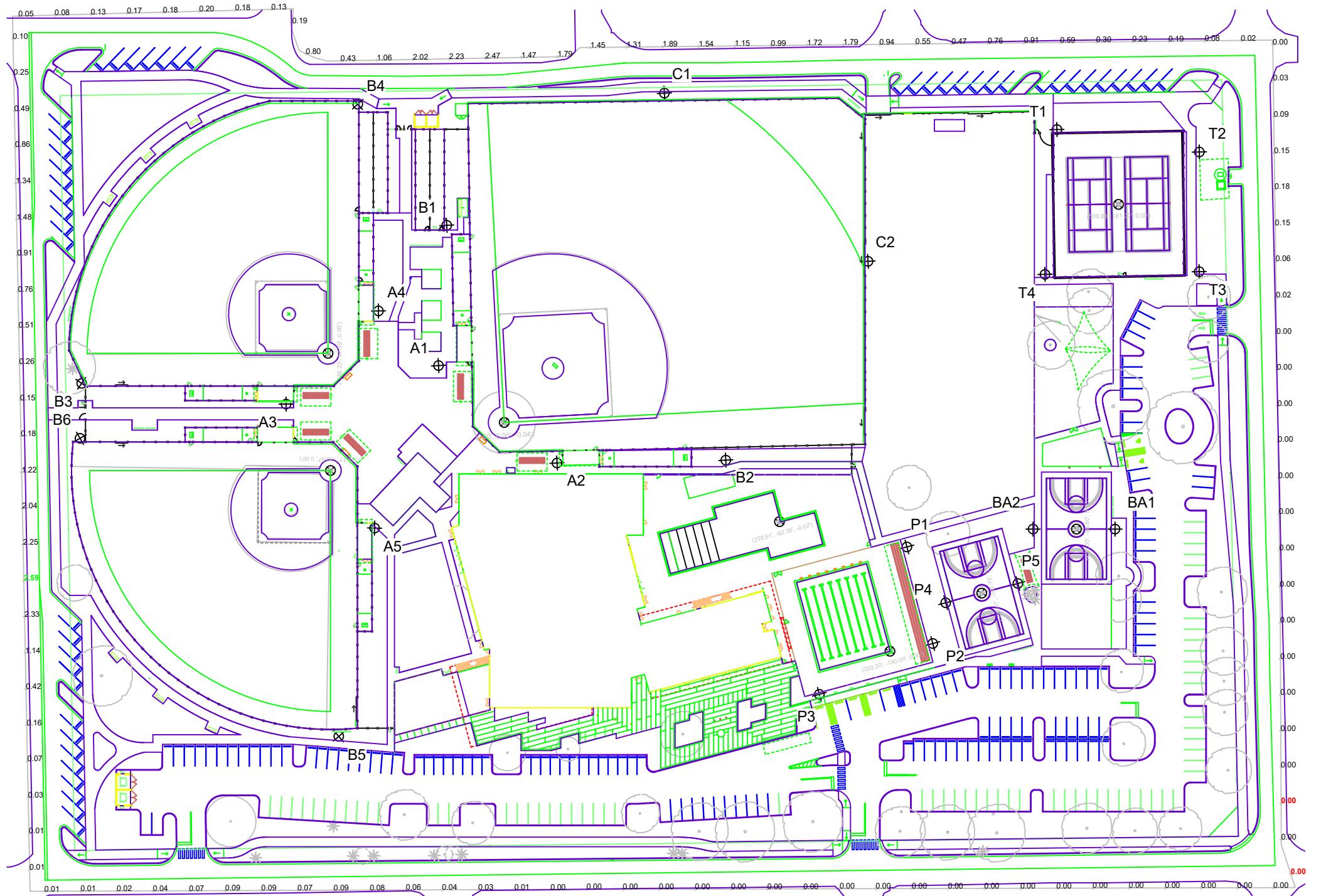
Entire Grid  
Scan Average: 0.4319  
Maximum: 2.592  
Minimum: 0.000  
CU: 0.00  
No. of Points: 119  
**FIXTURE INFORMATION**  
Applied Circuits: A,B,C,D,E,F,G,H,I,J,K  
No. of Fixtures: 111  
Total Load: 94.45 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE IN FEET 1 : 100  
0' 100' 200'  
Pole location(s) dimensions are relative to 0,0 reference point(s)

# Pompey Park

Delray Beach, FL

## Grid Summary

Name: Glare - Across Road  
Spacing: 30.0'  
Height: 5.0' above grade

## Illumination Summary

INITIAL CANDELA (PER FIXTURE)

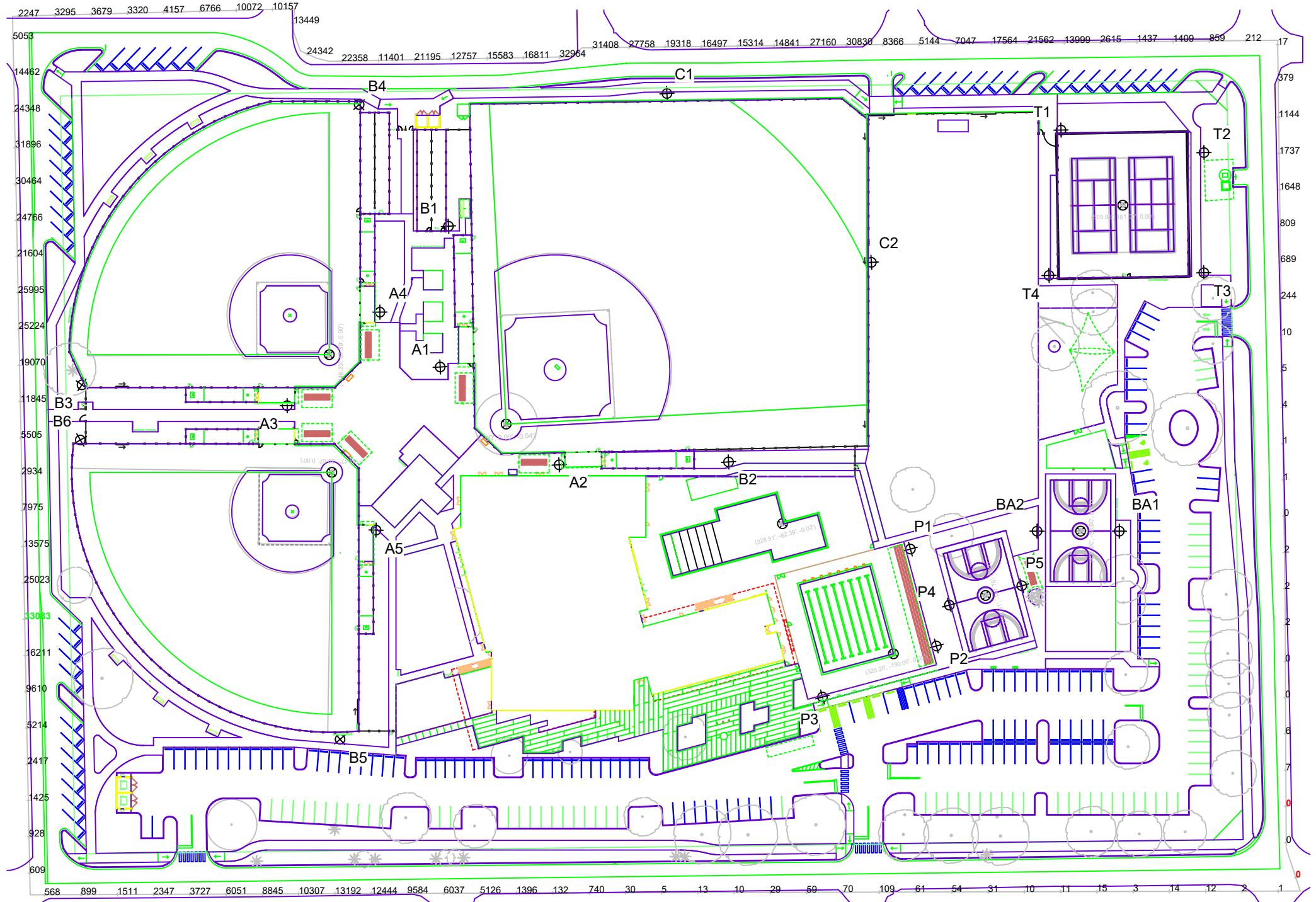
Scan Average: 7792.2529  
Maximum: 33082.598  
Minimum: 0.000  
CU: 0.00  
No. of Points: 119  
FIXTURE INFORMATION  
Applied Circuits: A,B,C,D,E,F,G,H,I,J,K  
No. of Fixtures: 111  
Total Load: 94.45 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.



SCALE IN FEET 1 : 100  
0' 100' 200'  
Pole location(s) dimensions are relative to 0,0 reference point(s)

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ILLUMINATION SUMMARY

# Pompey Park

Delray Beach, FL

## Grid Summary

Name: Zero Grid  
Spacing: 30.0' x 30.0'  
Height: 3.0' above grade

## Illumination Summary

MAINTAINED HORIZONTAL FOOTCANDLES

Entire Grid

Scan Average: 8.95

Maximum: 60.5

Minimum: 0.0

Avg/Min: -

Max/Min: -

UG (adjacent pts): 3458.29

CU: 0.93

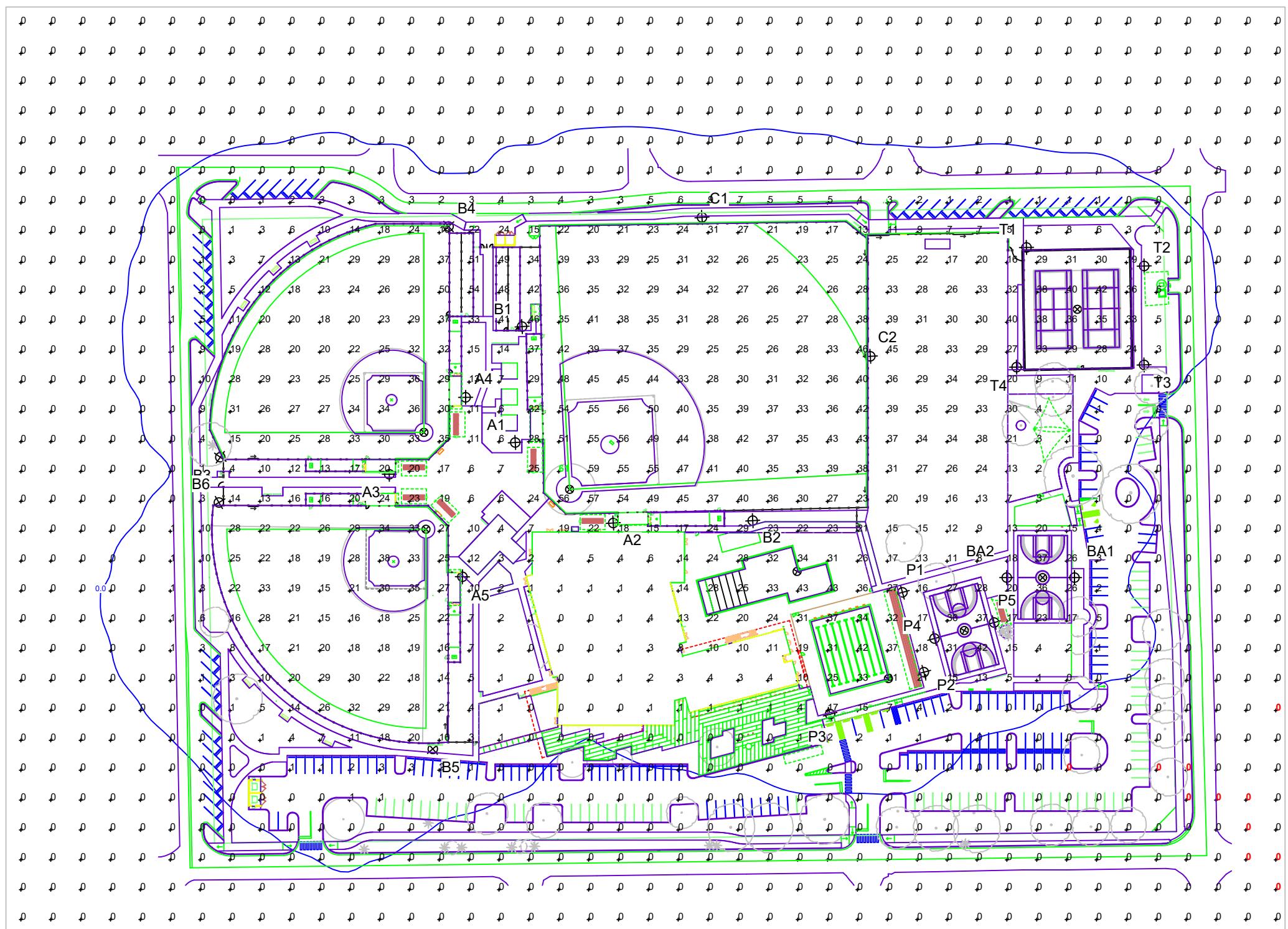
No. of Points: 1333

### Fixture Information

Applied Circuits: A,B,C,D,E,F,G,H,I,J,K

No. of Fixtures: 111

Total Load: 94.45 kW



SCALE IN FEET 1 : 120  
0' 120' 240'  
Pole location(s) dimensions are relative to 0,0 reference point(s)

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ILLUMINATION SUMMARY

# Pompey Park

Delray Beach, FL

## Equipment Layout

**INCLUDES:**

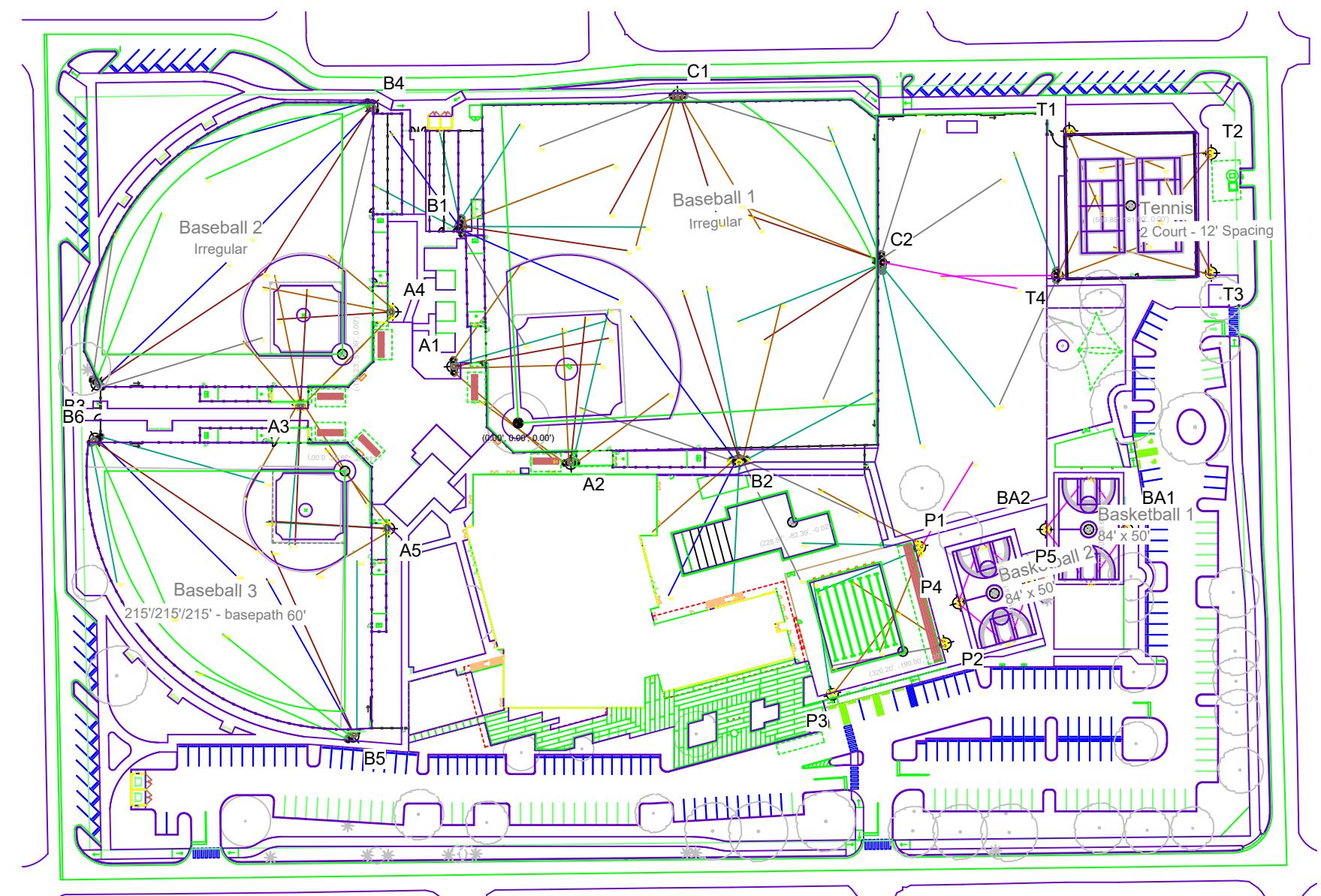
- Baseball 1
- Baseball 2
- Baseball 3
- Basketball 1
- Basketball 2
- Competition Pool
- Family Pool
- Tennis

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume  $\pm 3\%$  nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

## Single Fixture Amperage Draw Chart

Driver Specifications (.90 min power factor)	Line Amperage Per Fixture (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage							
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-LED-900	5.2	4.9	4.5	3.9	3.1	2.9	2.3
TLC-BT-575	3.3	3.2	2.9	2.5	2.0	1.8	1.5
TLC-LED-550	3.2	3.0	2.8	2.4	1.9	1.8	1.4



SCALE IN FEET 1 : 120  
0' 120' 240'  
Pole location(s) dimensions are relative to 0,0 reference point(s)