

# GORE PARK IMPROVEMENTS SITE PACKAGE CALLAWAY, FLORIDA

PREPARED FOR:  
CITY OF CALLAWAY



ADDRESS  
6601 EAST HIGHWAY 22  
CALLAWAY, FLORIDA 32404  
PHONE: (850) 871-6000

**CITY OF CALLAWAY OF CITY OFFICIALS:**

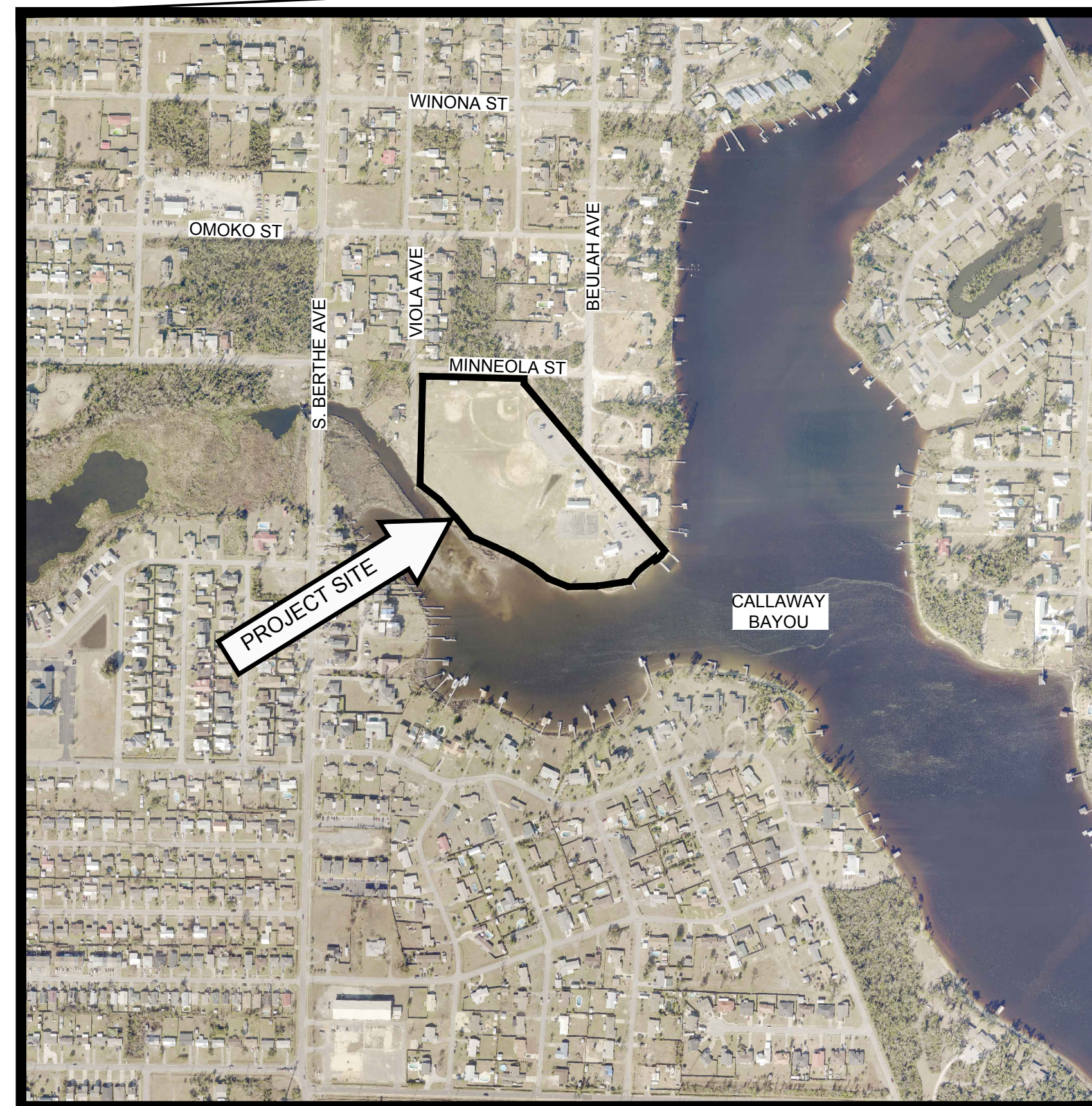
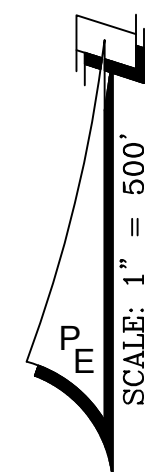
MS. PAMN HENDERSON, MAYOR  
MR. SCOTT DAVIS, WARD I COMMISSIONER  
MR. DAVID GRIGGS, WARD II COMMISSIONER  
MR. BOB PELLETIER, WARD III COMMISSIONER  
MR. FRANK MANCINELLI, WARD IV COMMISSIONER

MR. KEITH "EDDIE" COOK, CITY MANAGER  
MR. BILL FRYE, PUBLIC WORKS DIRECTOR  
MR. TIM LEGARE, DIRECTOR OF LEISURE SERVICES  
MS. JANICE PETERS, CITY CLERK

PREPARED BY:

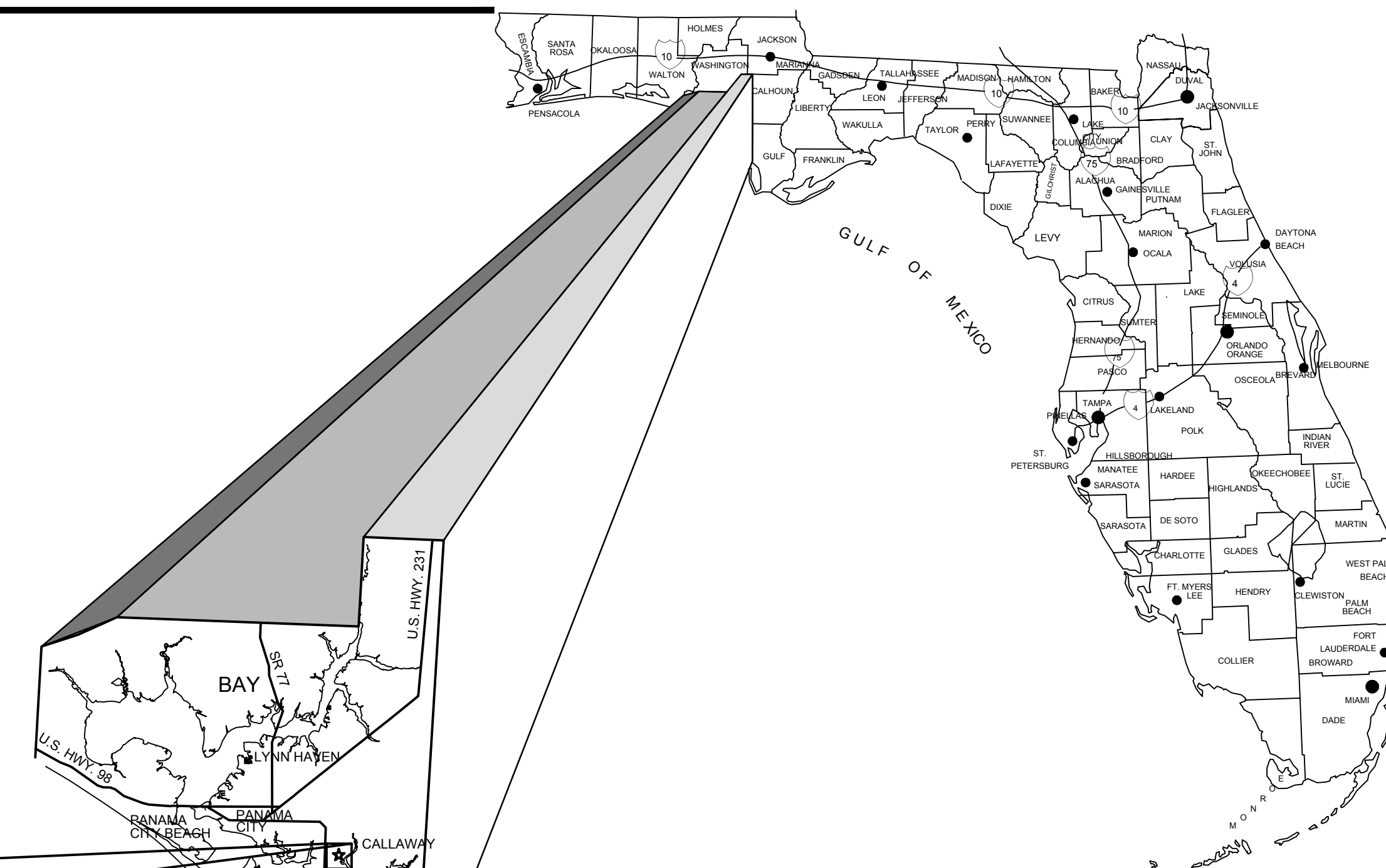


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600 Ohio Avenue Lynn Haven, Florida 32444  
(850)763-5200 www.panhandleengineering.com



ADDRESS: 522 BEULAH AVE(17-4S-13W)  
LAT ~ 30° 08' 15"  
LONG ~ 85° 34' 19"

VICINITY MAP



RELEASED FOR BIDDING  
PURPOSES ONLY. NOT  
RELEASED FOR CONSTRUCTION

FEBRUARY 2022  
PROJECT No. 26018

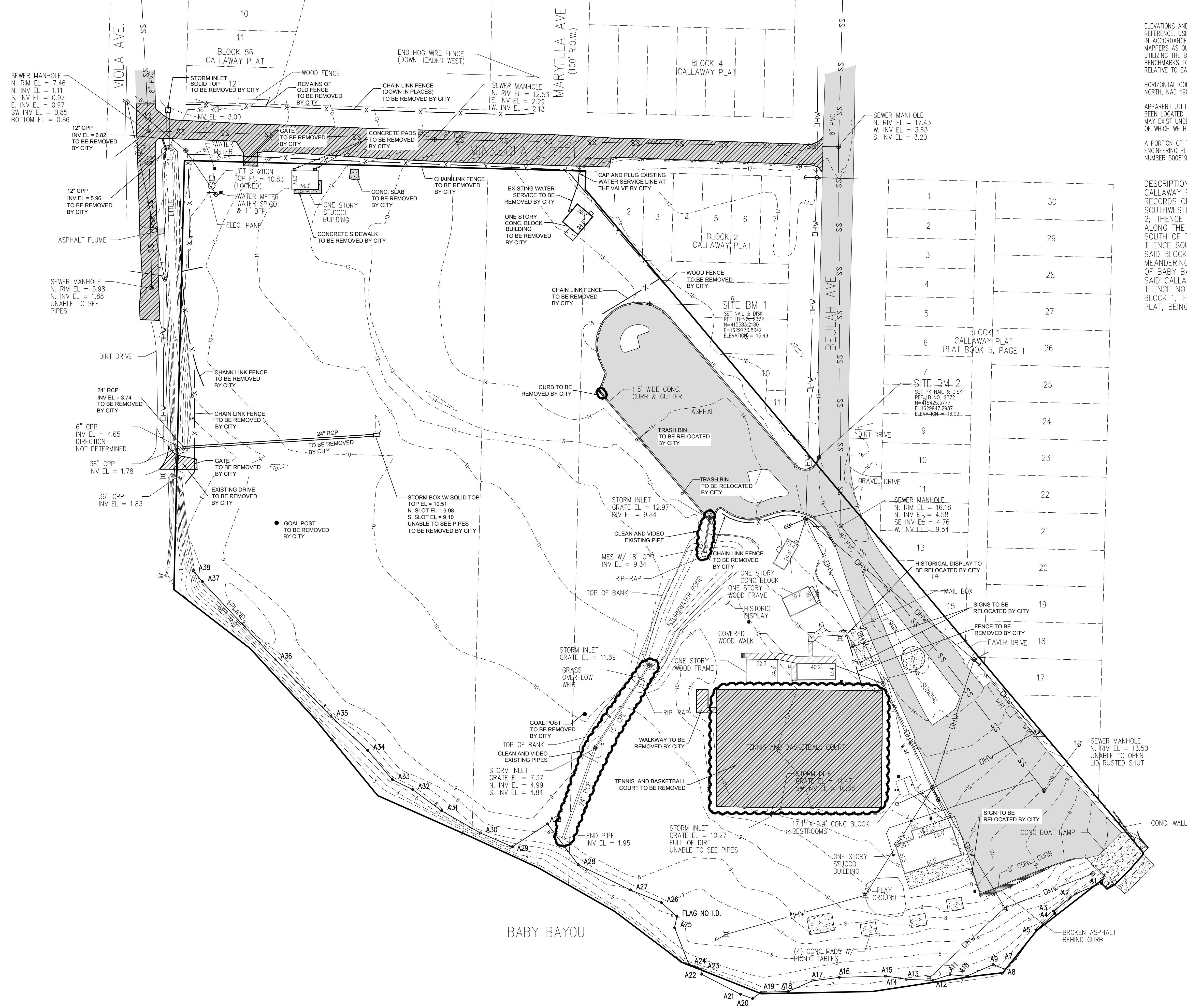
**DRAWING INDEX**

- No. - TITLE
- C1 - EXISTING CONDITIONS AND DEMOLITION PLAN
- C2 - SITE PLAN WITH AERIAL
- C3 - SITE PLAN
- C4 - GRADING AND DRAINAGE PLAN
- C5 - UTILITY PLAN
- C6 - CONCRETE JOINT LAYOUT PLAN
- C7 - EROSION CONTROL PLAN
- D1 - D3 - CONSTRUCTION DETAILS
- D4 - TENNIS COURT DETAILS
- D5 - AA FIELD DETAIL AND NETTING PLAN AND DETAILS
- D6 - DUGOUT AND PLAYERS BENCH DETAILS
- D7 - BLEACHER DETAILS
- E1 - SPORTS & SECURITY LIGHTING SITE PLAN - SITE PACKAGE
- E2 - SIDEWALK LIGHTING SITE PLAN - SITE PLAN
- E3 - ELECTRICAL RISER & DETAILS - SITE PACKAGE
- E4 - PANEL SCHEDULE & RACK DETAIL - SITE PACKAGE
- M1 - M3 - MUSCO LIGHTING DETAILS
- L1 - L2 - LANDSCAPE PLAN
- L3 - L4 - IRRIGATION PLAN

Always call 811 two full business days before you dig  
to have underground utilities located and marked.



ENGINEER OF RECORD: CHRIS FOREHAND, P.E. (FL REG NO. 58028)



ELEVATIONS AND BENCHMARKS SHOWN HEREON ARE BASED ON THE NOTED ELEVATION REFERENCE. USE OF THE BENCHMARKS FOR VERTICAL CONTROL SHOULD BE PERFORMED IN ACCORDANCE WITH STANDARDS OF PRACTICE FOR PROFESSIONAL SURVEYORS AND MAPPERS AS OUTLINED IN RULE 5A-17, FLORIDA ADMINISTRATIVE CODE. PRIOR TO UTILIZING THE BENCHMARKS FOR VERTICAL CONTROL, USER SHALL CHECK PROVIDED BENCHMARKS TO ENSURE THAT THEY HAVE NOT BEEN DISTURBED AND THAT THEY ARE RELATIVE TO EACH OTHER.

HORIZONTAL CONTROL SHOWN HEREON IS REFERENCED TO STATE PLANE ZONE: FLORIDA NORTH, NAD 1983, NGS ADJUSTMENT YEAR 2007.

APPARENT UTILITIES, UNDERGROUND UTILITIES AND BURIED PIPES SHOWN HEREON HAVE BEEN LOCATED AND ARE INDICATED IN THEIR RELATIVE POSITIONS. HOWEVER, THERE MAY EXIST UNDERGROUND UTILITIES AND BURIED PIPES WHICH WERE NOT LOCATED OR OF WHICH WE HAVE NO KNOWLEDGE.

A PORTION OF THE UNDERGROUND UTILITIES SHOWN HEREON WAS TAKEN FROM CIVIL ENGINEERING PLANS FOR GORE PARK BOAT RAMP PREPARED BY DEWBERRY. PROJECT NUMBER 50081990, DATED MAY 2017.

DESCRIPTION: BEGIN AT THE SOUTHEAST CORNER OF BLOCK 2 OF THE CALLAWAY PLAT AS RECORDED IN PLAT BOOK 5, PAGE 1 OF THE PUBLIC RECORDS OF BAY COUNTY, FLORIDA. THENCE NORTHWESTERLY ALONG THE SOUTHWESTERLY LINE OF BLOCK 2 TO THE SOUTHWEST CORNER OF BLOCK 2; THENCE NORTH TO THE NORTHWEST CORNER OF BLOCK 2; THENCE WEST ALONG THE SOUTH LINE OF MINNEOLA STREET TO A POINT THAT IS 60 FEET SOUTH OF THE SOUTHWEST CORNER OF BLOCK 56 OF SAID CALLAWAY PLAT; THENCE SOUTH ALONG A LINE THAT IS EXTENDED FROM THE WEST LINE OF SAID BLOCK 56 TO THE WATER'S EDGE OF BABY BAYOU; THENCE MEANDERING SOUTHEASTERLY AND NORTHERLY ALONG THE WATER'S EDGE OF BABY BAYOU TO A POINT ON THE SOUTHWESTERLY LINE OF BLOCK 1 OF SAID CALLAWAY PLAT, IF SAID LINE WAS EXTENDED TO THE WATER'S EDGE; THENCE NORTHWESTERLY ALONG THE SAID SOUTHWESTERLY LINE OF BLOCK 1, IF EXTENDED TO THE SOUTHEAST CORNER OF BLOCK 2 OF SAID PLAT, BEING THE POINT OF BEGINNING.

SYMBOLS & ABBREVIATIONS table listing symbols for P.O.C., P.O.B., N, S, E, W, DEGREES, MINUTES OR FEET, SECONDS OR INCHES, FOUND CORNER, LAND SURVEYOR, LAND SURVEYOR BUSINESS NUMBER, IDENTIFICATION, CONCRETE, MONUMENT, RIGHT OF WAY, MORE OR LESS, NORTH AMERICAN VERTICAL DATUM, ELEVATION, BENCHMARK, FINISHED FLOOR, MANHOLE, REINFORCED CONCRETE PIPE, CORRUGATED PLASTIC PIPE, POLYVINYL CHLORIDE, INVERT, ELECTRIC, AIR CONDITIONING, BACKFLOW PREVENTER, AERIAL UTILITY LINE, WATER MAIN, SANITARY SEWER MAIN, WATER VALVE, FIRE HYDRANT, WATER METER, CLEANOUT, MANHOLE, LIGHT POLE, POWER POLE, GUY ANCHOR, SIGN POLE, STORM INLET.

SYMBOL LEGEND table with symbols for EXISTING CONTOURS, EXISTING CONCRETE TO REMAIN, EXISTING CONCRETE TO BE REMOVED, EXISTING ASPHALT TO REMAIN, LIMITS OF ASPHALT FULL DEPTH RECLAMATION.

SURVEY PROVIDED BY: BUCHANAN & HARPER, INC. 735 WEST 11TH STREET PANAMA CITY, FL 32401 PHONE: (850) 763-7427

Revision table with columns: REV, DATE, BY, REVISIONS. Includes a 'NOT RELEASED FOR CONSTRUCTION' stamp.

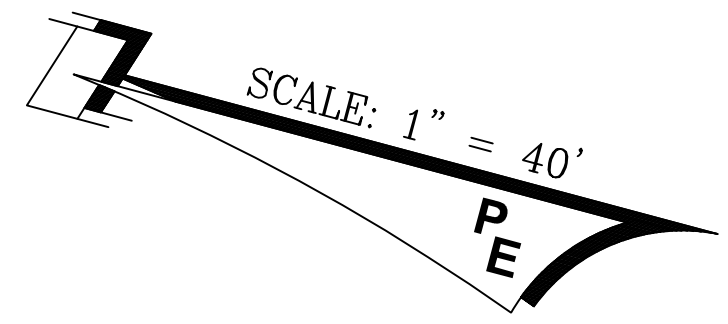
Scale and Design Information table: SCALE: AS NOTED; DESIGNED BY: CBF; DRAWN BY: JAH; REVIEWED BY: CBF; ISSUE DATE: FEBRUARY 2022; ACAD FILE NAME: 26018e1-exist-demo.dwg

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EXISTING CONDITIONS AND DEMOLITION PLAN GORE PARK IMPROVEMENTS CALLAWAY, FLORIDA

James H. Slonina, P.E. 39197 Christopher B. Forehand, P.E. 58028 Stephen E. Price, P.E. 71646 J. Doug Crook, P.E. 66556

SHEET NUMBER: C1; PROJECT NUMBER: 26018; SHEET NUMBER: C1; PROJECT NUMBER: 26018



REV	DATE	BY	REVISIONS

SCALE: AS NOTED
DESIGNED BY: CBF
DRAWN BY: JAH
REVIEWED BY: CBF
ISSUE DATE: FEBRUARY 2022
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**SITE PLAN WITH AERIAL  
 GORE PARK  
 IMPROVEMENTS  
 CALLAWAY, FLORIDA**

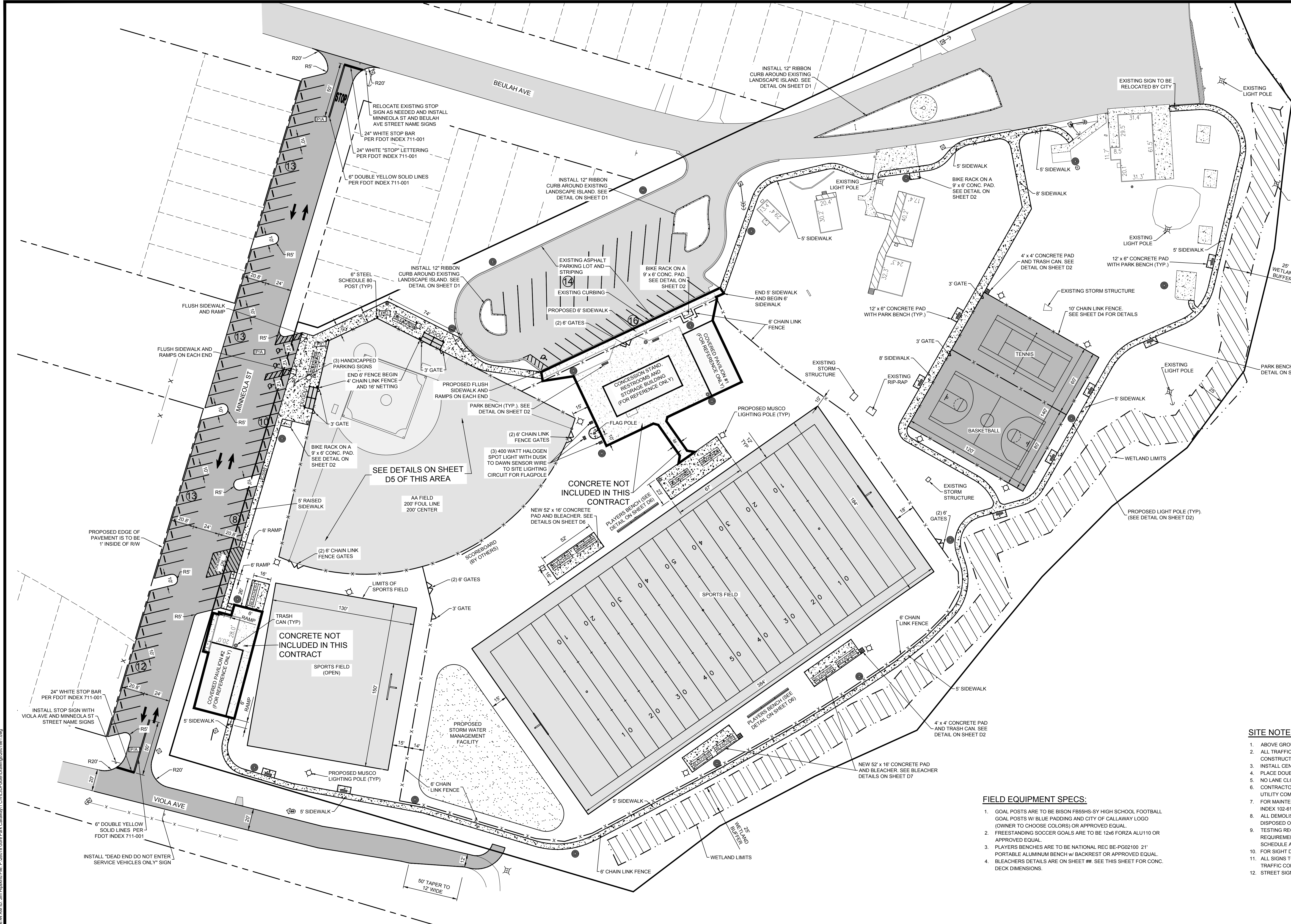
James H. Slonina, P.E. 39197  
 Christopher B. Forehand, P.E. 58028  
 Stephen E. Price, P.E. 71648  
 J. Doug Crook, P.E. 66556

DPR CERTIFICATION #EB-7806

SHEET NUMBER	C2
PROJECT NUMBER	26018

Date: Wednesday, February 2, 2022 10:56:40 AM ID: Jim Hoekland File: P:\26018 Gore Park Callaway\1 Civil\3D\Folder\Drawings\26018e1.dwg

26018 GORE PARK IMPROVEMENTS SITE PLAN WITH AERIAL Sheet C2



**LEGEND**

- ⊕ EXISTING WATER VALVE
- ⊕ EXISTING FIRE HYDRANT
- ⊕ EXISTING WATER METER
- ⊕ EXISTING CLEANOUT
- ⊕ EXISTING MANHOLE
- ⊕ EXISTING LIGHT POLE
- ⊕ EXISTING POWER POLE
- ⊕ EXISTING GUY ANCHOR
- ⊕ EXISTING SIGN POLE
- ⊕ EXISTING STORM INLET
- ⊕ SIGN
- ⊕ ASPHALT PAVEMENT
- ⊕ CONCRETE PAVEMENT
- ⊕ HANDICAP PARKING
- ⊕ CONCRETE SIDEWALK
- ⊕ PROPOSED LIGHT POLE
- ⊕ PROPOSED MUSCO LIGHTING POLE
- ⊕ PROPOSED TRASH CAN
- ⊕ PROPOSED ASPHALT PAVEMENT
- ⊕ EXISTING ASPHALT
- ⊕ 25' WETLAND BUFFER
- ⊕ PROPOSED CONCRETE
- ⊕ EXISTING CONCRETE
- ⊕ DETECTABLE WARNING SURFACE (DWS)

- NOTES:**
1. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY UPON IDENTIFICATION OF CONFLICTS.
  - 2.

**PARKING DATA**

- EXISTING PARKING LOT**
- 29 REGULAR PARKING SPACES
  - 1 HANDICAPPED PARKING SPACES
  - 30 TOTAL PARKING SPACES
- PROPOSED PARKING ON MINNEOLA ST**
- 66 REGULAR PARKING SPACES
  - 3 HANDICAPPED PARKING SPACES
  - 69 TOTAL PARKING SPACES
- TOTAL PARKING**
- 95 REGULAR PARKING SPACES
  - 4 HANDICAPPED PARKING SPACES
  - 99 TOTAL PARKING SPACES

**SITE NOTES:**

1. ABOVE GROUND STRUCTURES ARE SHOWN ON THIS SHEET.
2. ALL TRAFFIC STRIPING TO BE PAINT PER STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SEC-711.
3. INSTALL CENTIPEDDE SOD ON ALL DISTURBED AREAS. ALL SOD TO BE STAGGERED & PINNED.
4. PLACE DOUBLE 16" OR SINGLE ROLL 30" STRIP OF SOD AT EDGE OF DRIVE.
5. NO LANE CLOSURES BETWEEN THE HOURS OF 6 AM TO 9 AM AND 3 PM TO 6 PM.
6. CONTRACTOR TO FIELD VERIFY ALL UTILITIES ABOVE OR BELOW GROUND AND NOTIFY ALL UTILITY COMPANIES 2 DAYS PRIOR TO CONSTRUCTION.
7. FOR MAINTENANCE OF TRAFFIC CONTROL THROUGH WORK ZONES REFER TO FDOT STD. PLANS INDEX 102-612 & 102-613 AS APPLICABLE.
8. ALL DEMOLISHED MATERIALS (i.e. SIGNS, CONCRETE, ASPHALT, ETC.) TO BE REMOVED AND DISPOSED OF IN LEGAL MANNER.
9. TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH CITY AND OR COUNTY REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS.
10. FOR SIGHT DISTANCE TRIANGLES SEE FDOT DESIGN MANUAL 212.11. CLEAR SIGHT TRIANGLES.
11. ALL SIGNS TO BE INSTALLED PER FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TO BE MOUNTED TO GALVANIZED PIPE.
12. STREET SIGNS SHALL COMPLY WITH THE CITY OF CALLAWAY STANDARDS.

**FIELD EQUIPMENT SPECS:**

1. GOAL POSTS ARE TO BE BISON FB55HS-SY HIGH SCHOOL FOOTBALL GOAL POSTS W/ BLUE PADDING AND CITY OF CALLAWAY LOGO (OWNER TO CHOOSE COLORS) OR APPROVED EQUAL.
2. FREESTANDING SOCCER GOALS ARE TO BE 12x6 FORZA ALU110 OR APPROVED EQUAL.
3. PLAYERS BENCHES ARE TO BE NATIONAL REC BE-PG2100 21' PORTABLE ALUMINUM BENCH W/ BACKREST OR APPROVED EQUAL.
4. BLEACHERS DETAILS ARE ON SHEET ##. SEE THIS SHEET FOR CONC. DECK DIMENSIONS.

REV	DATE	BY	REVISIONS

SCALE: AS NOTED

DESIGNED BY: CBF

DRAWN BY: JAH

REVIEWED BY: CBF

ISSUE DATE: FEBRUARY 2022

ACAD FILE NAME: 26018e1.dwg

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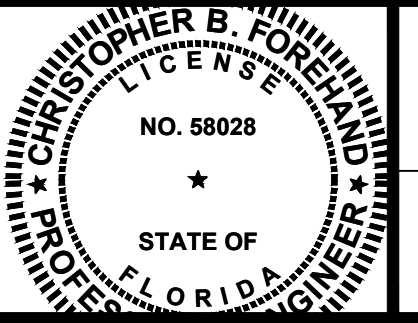
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**SITE PLAN**

**GORE PARK IMPROVEMENTS**

**CALLAWAY, FLORIDA**

James H. Slonina, P.E. 39197  
Christopher B. Forehand, P.E. 58028  
Stephen E. Price, P.E. 71646  
J. Doug Crook, P.E. 66556



SHEET NUMBER

**C3**

PROJECT NUMBER

**26018**

FOR SCALE VERIFICATION AFTER DUPLICATION, THIS LINE SHOULD BE 1" LONG

LEGEND

- EXISTING WATER VALVE
EXISTING FIRE HYDRANT
EXISTING WATER METER
EXISTING CLEANOUT
EXISTING MANHOLE
EXISTING LIGHT POLE
EXISTING POWER POLE
EXISTING GUY ANCHOR
EXISTING SIGN POLE
EXISTING STORM INLET
SIGN
HANDICAP PARKING
PROPOSED LIGHT POLE
PROPOSED MUSCO LIGHTING POLE
TEST HOLE AND DESIGNATION
PROPOSED FINISH GRADE
PROPOSED GRADE CONTOUR
EXISTING GRADE CONTOUR
STORMWATER FLOW ARROW
GRADE BREAK
PROPOSED MANHOLE (SANITARY OR STORM)
PROPOSED DRAINAGE INLETS
PROPOSED STORM PIPE
EXISTING OVERHEAD UTILITIES
EXISTING WATER MAIN
EXISTING SANITARY SEWER
EXISTING SANITARY MANHOLE
STORM DRAIN STRUCTURE (i.e. #1)
STORM DRAIN PIPE (i.e. #1)
EDGE OF FIELD
TOP OF CONCRETE
EDGE OF PAVEMENT
REINFORCED CONCRETE PIPE
PROPOSED ASPHALT PAVEMENT
EXISTING ASPHALT
25' WETLAND BUFFER
PROPOSED CONCRETE
EXISTING CONCRETE
DETECTABLE WARNING SURFACE (DWS)
SWALE

NOTES:
1. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY UPON IDENTIFICATION OF CONFLICTS.

SANITARY MANHOLE RIM = 12.23' (ADJUST AS NECESSARY TO NEW GRADE)

HA-1 HA-2 HA-3 HA-4 HA-5 HA-6 HA-7 HA-8 HA-9 HA-10

HA-1 HA-2 HA-3 HA-4 HA-5 HA-6 HA-7 HA-8 HA-9 HA-10

HA-1 HA-2 HA-3 HA-4 HA-5 HA-6 HA-7 HA-8 HA-9 HA-10

HA-1 HA-2 HA-3 HA-4 HA-5 HA-6 HA-7 HA-8 HA-9 HA-10

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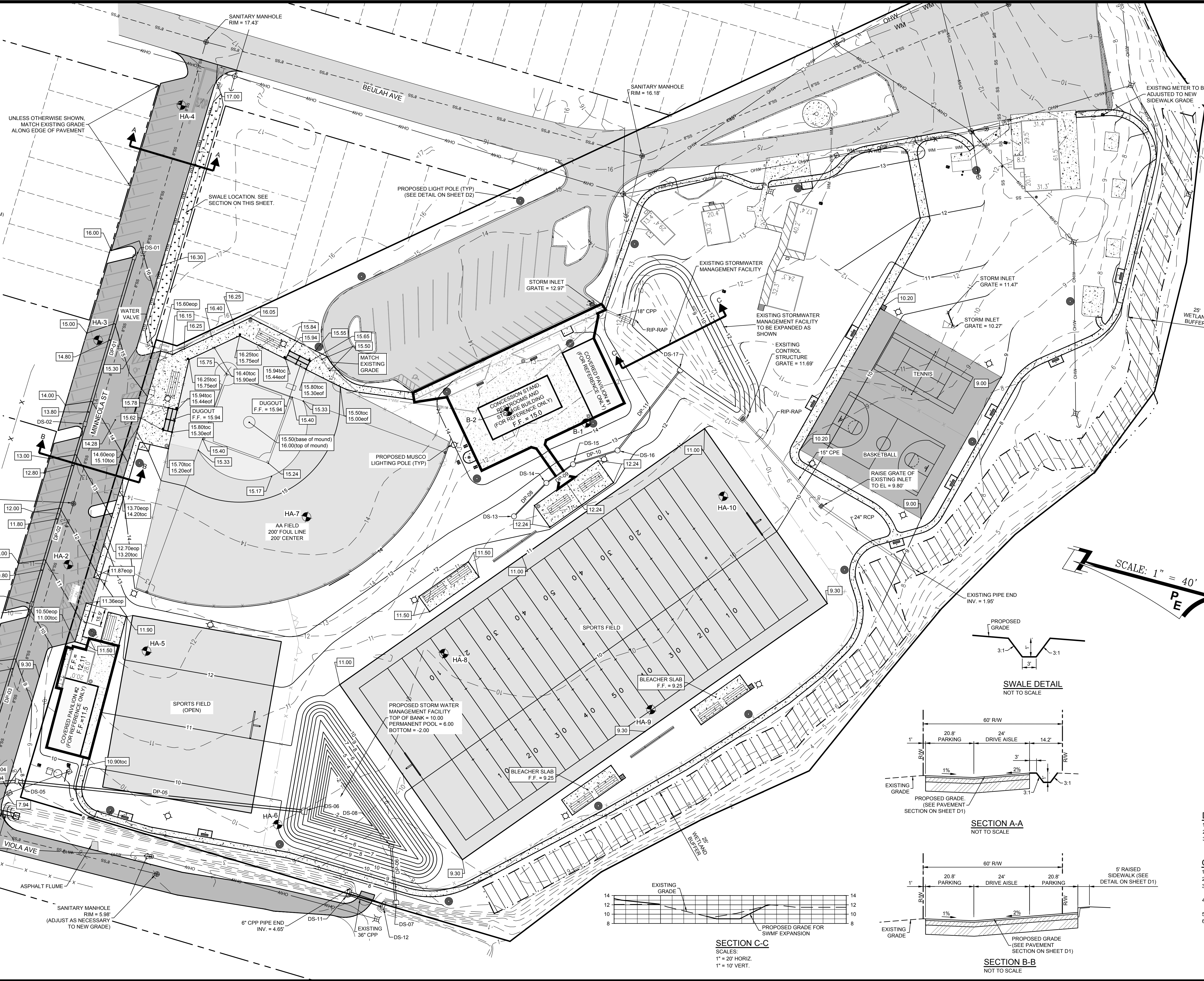
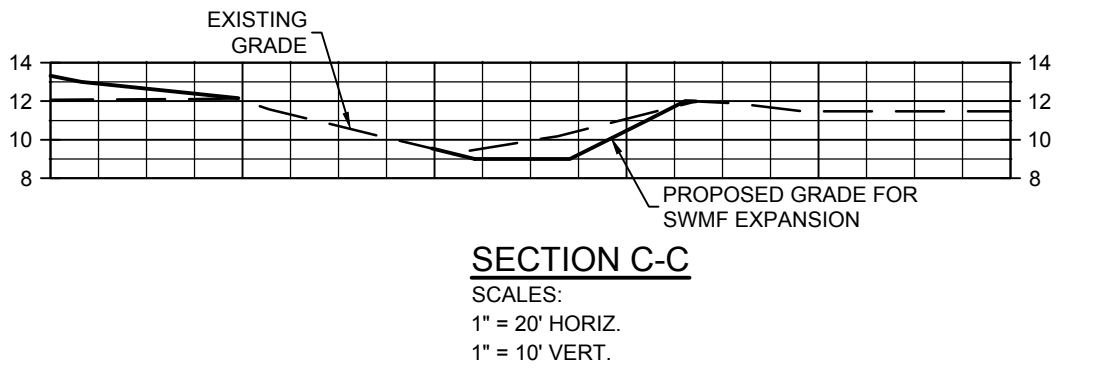
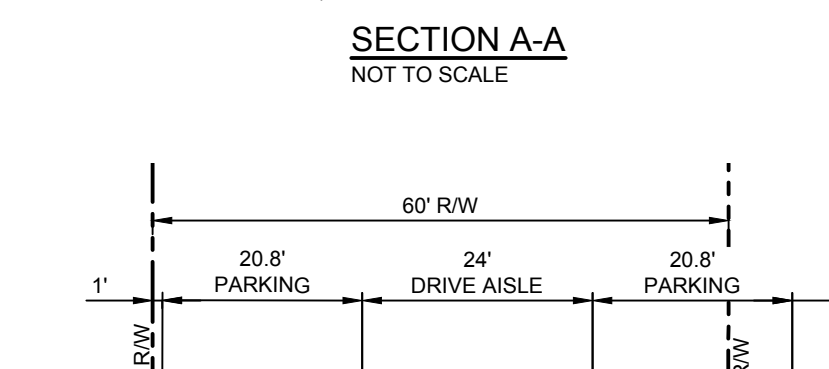
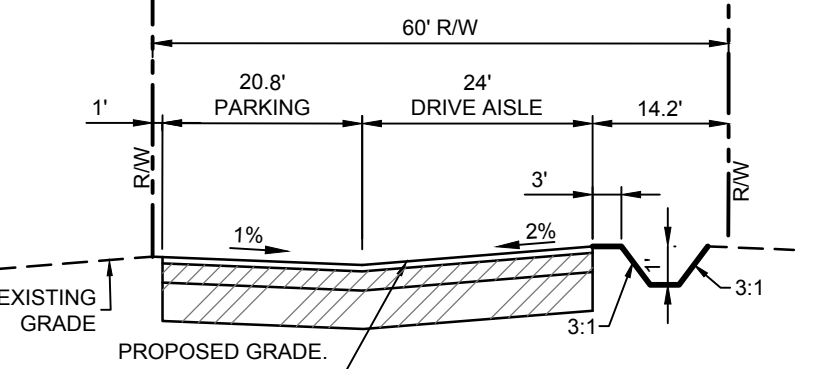
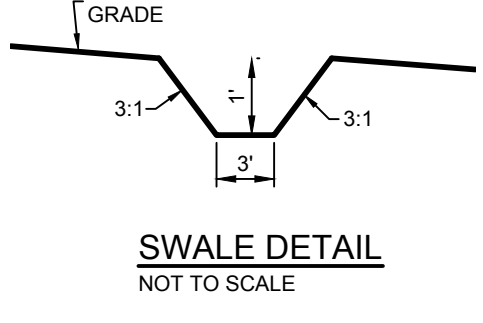
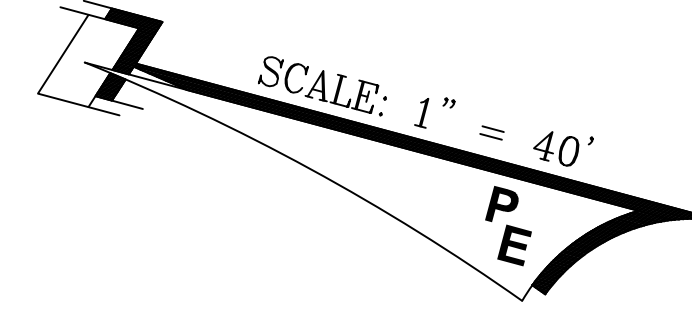


Table with 4 columns: NO., STRUCTURE TYPE, TOP ELEV., PIPE INVERTS. Lists details for structures DS-01 through DS-17, including structure type, top elevation, and pipe invert information.

Table with 5 columns: NO., SIZE, DESCRIPTION, LF, SLOPE, INVERTS. Lists details for drainage pipes DP-01 through DP-10, including size, description, length, slope, and invert information.



DRAINAGE STRUCTURE NOTES:
1. 'C' and 'E' INLETS PER FDOT STD. PLANS INDEX 425-052 (SEE DETAILS SHEET D2)
2. ALL STORM STRUCTURES TO HAVE 1ft. SUMPS.
3. CONTRACTOR MAY UTILIZE ADS (N-12) (OR EQUAL) WHERE COVER EXCEEDS MANUFACTURER AND FDOT CRITERIA.

GRADING NOTES:
1. ABOVE & BELOW GROUND STRUCTURES, ETC., ARE SHOWN ON THIS SHEET.
2. ALL DISTURBED AREA TO BE SOODED.
3. CONTRACTOR TO FIELD VERIFY ALL UTILITIES ABOVE OR BELOW GROUND AND NOTIFY ALL UTILITY COMPANIES 2 DAYS PRIOR TO CONSTRUCTION.
4. ALL DEMOLISHED MATERIALS (i.e. SIGNS, CONCRETE, ASPHALT, ETC.,) TO BE REMOVED AND DISPOSED OF IN LEGAL MANNER.
5. FOR ASPHALT PAVEMENT CROSS SECTION SEE DETAILS ON SHEET D1.
6. ALL DESIGNATED HANDICAP PARKING NOT TO EXCEED 1:50 SLOPE IN ALL DIRECTIONS.

Revision table with columns: REV, DATE, BY, REVISIONS. Includes a 'NOTED' row for construction release.

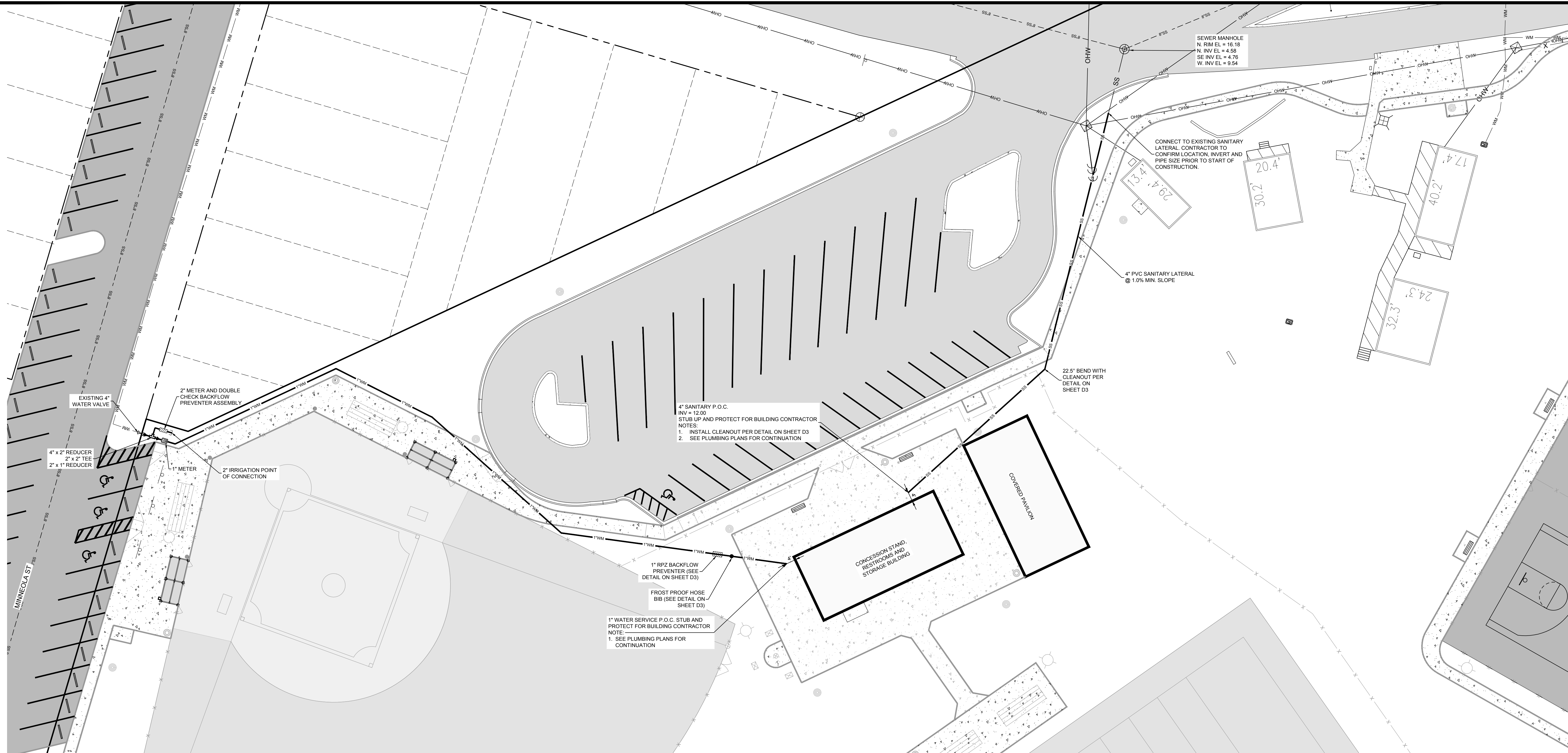
Scale and design information table with columns: SCALE, DESIGNED BY, DRAWN BY, REVIEWED BY, ISSUE DATE, ACAD FILE NAME.

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GRADING AND DRAINAGE PLAN GORE PARK IMPROVEMENTS CALLAWAY, FLORIDA. Includes project title, location, and a circular professional engineer seal for Christopher B. Forehand, No. 58028, State of Florida.

Project information including SHEET NUMBER C4, PROJECT NUMBER 26018, and a note about DPR CERTIFICATION #EB-7806.

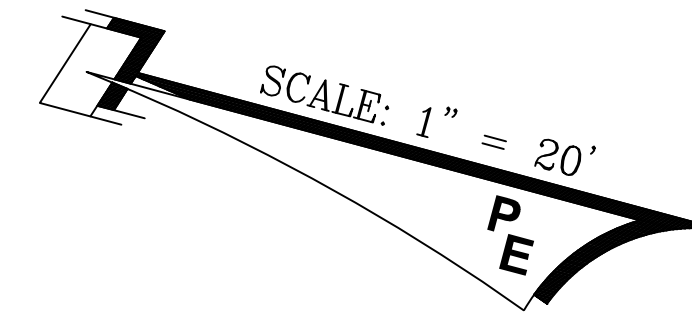
26018 GORE PARK IMPROVEMENTS GRADING AND DRAINAGE PLAN SHEET C4



**LEGEND**

- ⊗ EXISTING WATER VALVE
- ⊕ EXISTING FIRE HYDRANT
- ⊙ EXISTING WATER METER
- ⊕ EXISTING CLEANOUT
- ⊙ EXISTING MANHOLE
- ⊕ EXISTING LIGHT POLE
- ⊙ EXISTING POWER POLE
- ⊕ EXISTING GUY ANCHOR
- ⊙ PROPOSED LIGHT POLE
- ⊙ PROPOSED MUSCO LIGHTING POLE
- OHW --- EXISTING OVERHEAD UTILITIES
- WM --- EXISTING WATER MAIN
- SS --- EXISTING SANITARY SEWER
- ⊙ EXISTING SANITARY MANHOLE

**NOTES:**  
 1. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION.  
 2. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY UPON IDENTIFICATION OF CONFLICTS.



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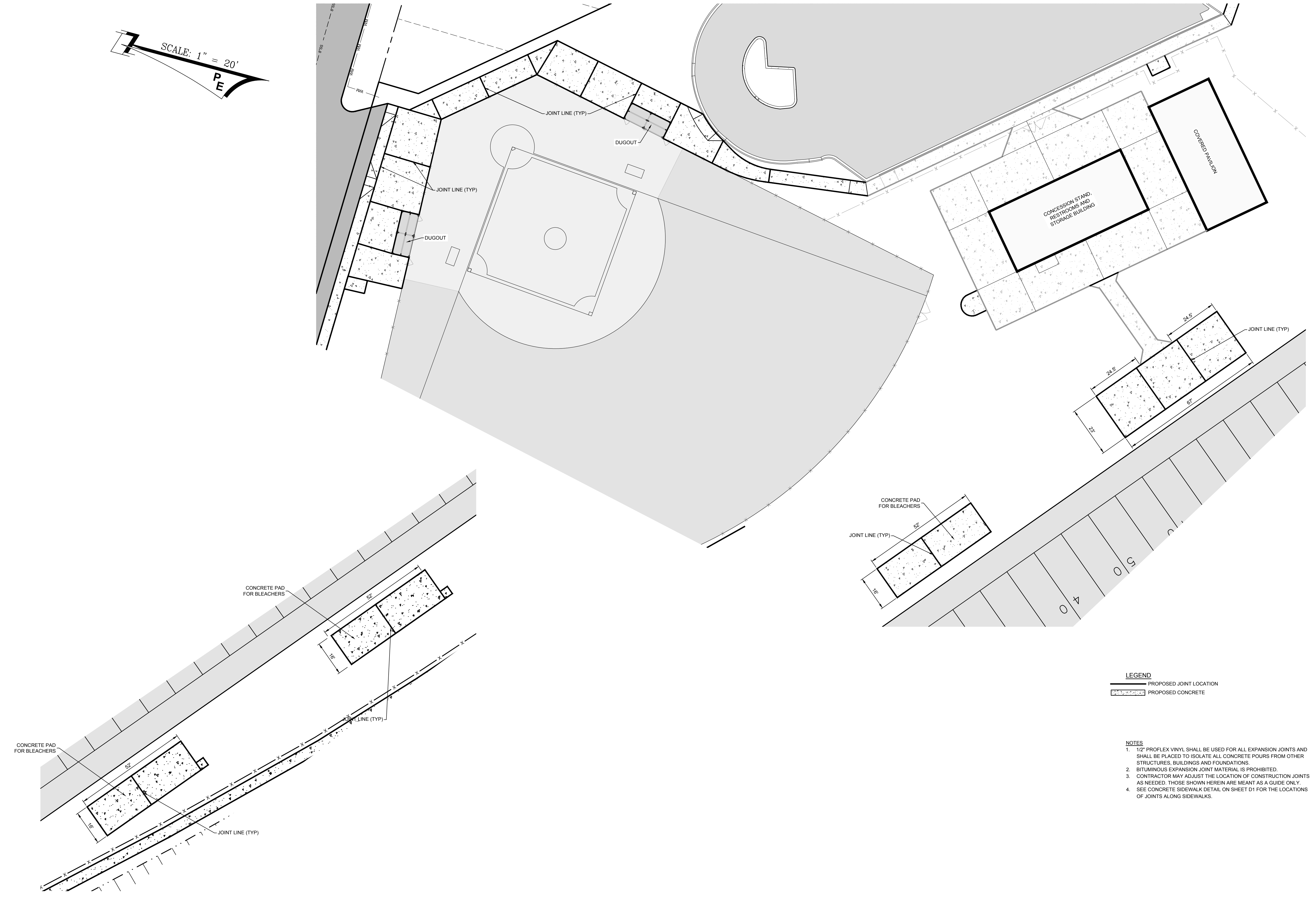
**UTILITY PLAN  
 GORE PARK  
 IMPROVEMENTS  
 CALLAWAY, FLORIDA**

James H. Slonina, P.E. 39197  
 Christopher B. Forehand, P.E. 58028  
 Stephen E. Price, P.E. 71648  
 J. Doug Crook, P.E. 66556

DPR CERTIFICATION #EB-7806

SHEET NUMBER	C5
PROJECT NUMBER	26018

SCALE: 1" = 20'  
P.E.



**LEGEND**  
 - - - - - PROPOSED JOINT LOCATION  
 [Pattern] PROPOSED CONCRETE

- NOTES**
1. 1/2" PROFLEX VINYL SHALL BE USED FOR ALL EXPANSION JOINTS AND SHALL BE PLACED TO ISOLATE ALL CONCRETE POURS FROM OTHER STRUCTURES, BUILDINGS AND FOUNDATIONS.
  2. BITUMINOUS EXPANSION JOINT MATERIAL IS PROHIBITED.
  3. CONTRACTOR MAY ADJUST THE LOCATION OF CONSTRUCTION JOINTS AS NEEDED. THOSE SHOWN HEREIN ARE MEANT AS A GUIDE ONLY.
  4. SEE CONCRETE SIDEWALK DETAIL ON SHEET D1 FOR THE LOCATIONS OF JOINTS ALONG SIDEWALKS.

Date: Wednesday, February 2, 2022 10:57:02 AM ID: Jim Haskind File: P:\26018 Gore Park Callaway\1 Civil\3D\Final\Drawings\26018e1.dwg

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**CONCRETE JOINT LAYOUT PLAN  
 GORE PARK  
 IMPROVEMENTS  
 CALLAWAY, FLORIDA**

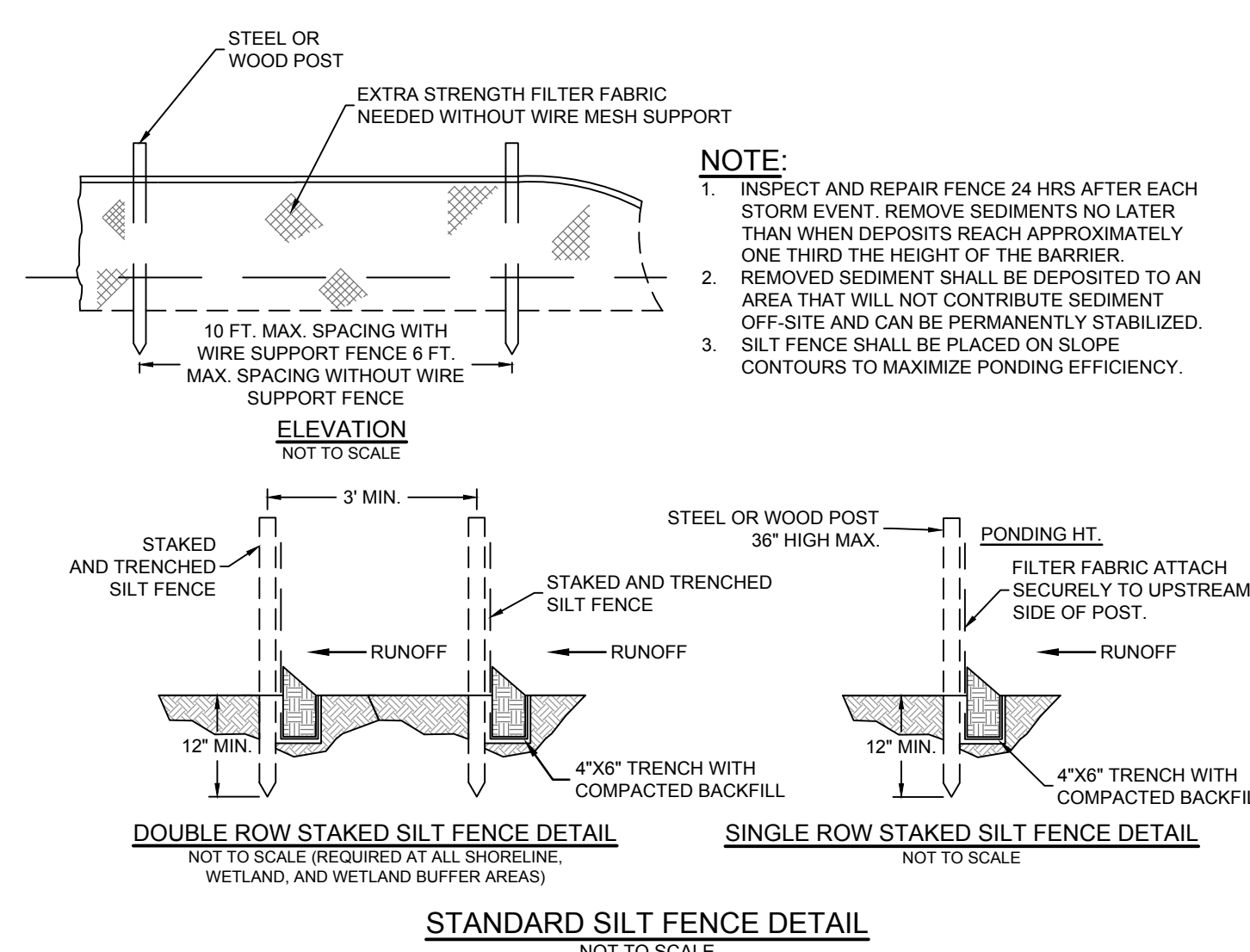
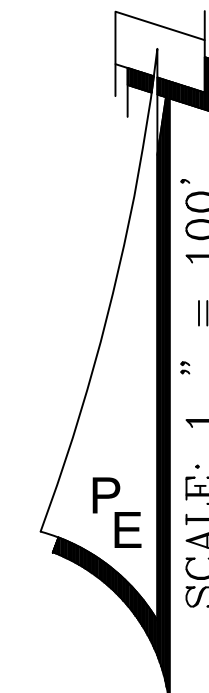
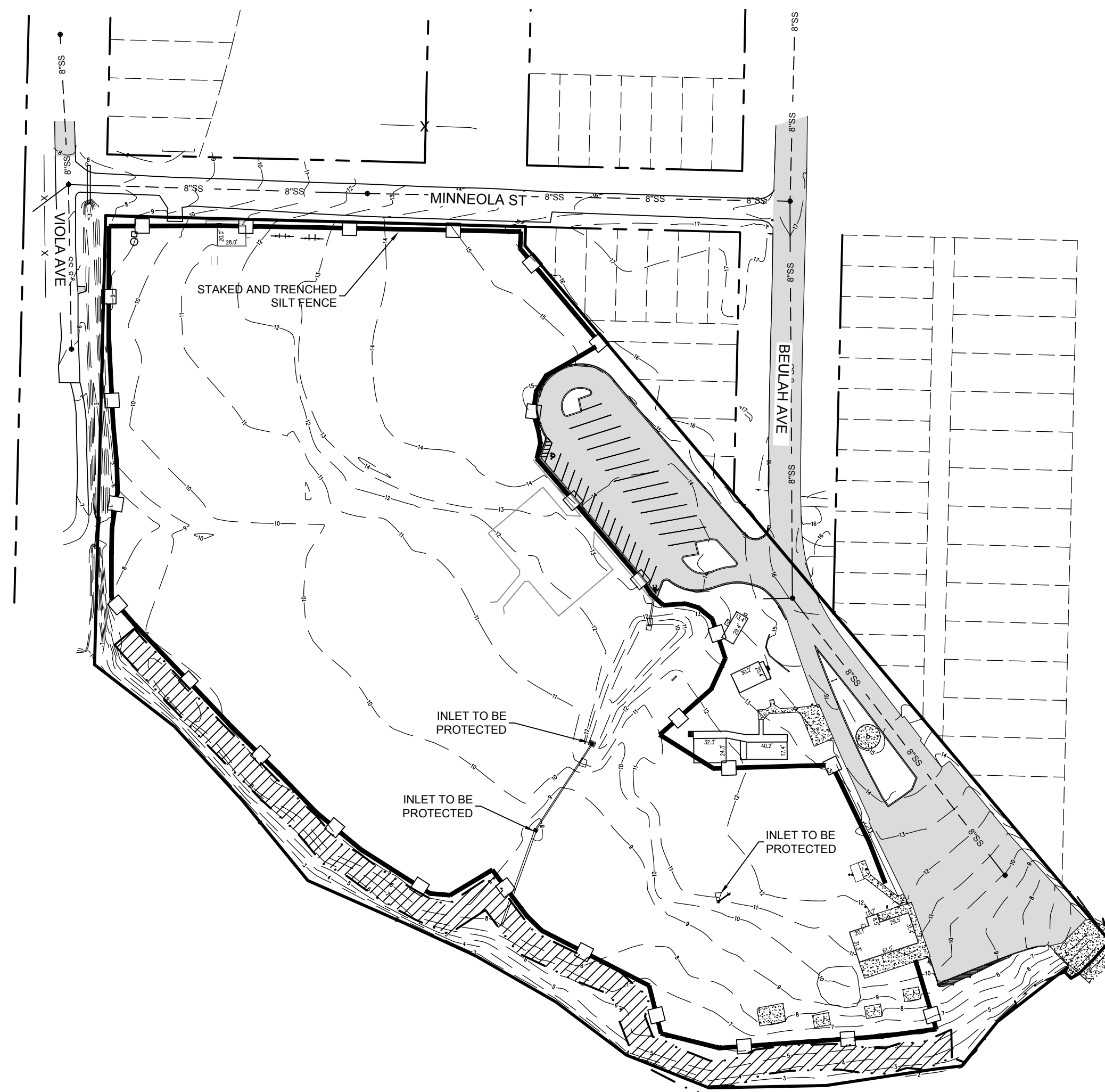
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**CHRISTOPHER B. FOREHAND, P.E.**  
 NO. 58028  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

DPR CERTIFICATION #EB-7806

SHEET NUMBER	C6
PROJECT NUMBER	26018

26018 CONCRETE JOINT LAYOUT PLAN IMPROVEMENTS CONCRETE JOINT LAYOUT PLAN Sheet C6



**ENVIRONMENTAL SEQUENCE**  
 THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

**SEQUENCE OF MAJOR ACTIVITIES:**  
 THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCES AND HAY BALES, AS REQUIRED
3. CONSTRUCT SEDIMENTATION BASIN
4. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN AT PERMANENT POND LOCATION
5. CONTINUE CLEARING AND GRUBBING
6. STOCKPILE TOP SOIL IF REQUIRED
7. PERFORM PRELIMINARY GRADING ON SITE, AS REQUIRED
8. STABILIZE DENuded AREA AND STOCKPILES AS SOON AS PRACTICABLE
9. INSTALL UTILITIES, STORM SEWER, CURBS AND GUTTER
10. APPLY BASE TO PROJECT
11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING
12. COMPLETE FINAL PAVING
13. REMOVE ACCUMULATED SEDIMENT FROM BASINS
14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/ SOD, AS REQUIRED

**TIMING OF CONTROLS/MEASURES**  
 AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH Dikes/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION AND TURBIDITY CONTROL PLAN.

**DEWATERING NOTES:**  
 CONTRACTOR SHALL OBTAIN A GENERAL PERMIT FOR DEWATERING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES SECTION. (CONTACT: KEVIN HARGETT, FDPD NW DIST. WASTEWATER SECTION. EMAIL: kevin.hargett@dep.state.us PHONE: 850.595.0687)

CONTRACTOR SHALL PROVIDE A DETAILED DEWATERING PLAN WITH METHODS TIME TABLE & DISCHARGE LOCATION TO ENGINEER FOR APPROVAL BEFORE COMMENCEMENT.

\*DEWATERING EFFLUENT OF UNCONTAMINATED GROUNDWATER SHALL BE DISCHARGED SO AS TO PREVENT NEGATIVE IMPACTS TO PUBLIC HEALTH OR SAFETY, PROPERTY, OR THE WATER RESOURCE. DEWATERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL DEVICE OR NATURAL ATTENUATION AREA PRIOR TO DISCHARGE TO WETLANDS OR OTHER SURFACE WATERS. A SEDIMENT CONTROL DEVICE MEANS A SETTLING POND, EXCAVATED SEDIMENT TRAP OR BASIN, DEWATERING TRAP OR TEMPORARY SEDIMENT CONTROL MEASURE. A NATURAL ATTENUATION AREA MEANS A NORMALLY DRY, GRASSED MEADOW OR OPEN AREA WITH EXISTING VEGETATION THAT IS NOT SUBJECT TO EROSION. IF A NATURAL ATTENUATION AREA IS USED, A MINIMUM 50 FOOT SETBACK SHALL BE MAINTAINED FROM THE RECEIVING WATERS OR WETLANDS. WHEN WATER IS UNAVOIDABLY DISCHARGED TO WETLANDS OR OTHER SURFACE WATERS, THE WATER DISCHARGED SHALL BE DONE IN A MANNER THAT DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS, AND DOES NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF WATER QUALITY STANDARDS. SETTLING PONDS AND SEDIMENT TRAPS OR BASINS SHALL BE IMPLEMENTED, AT A MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 11.0, NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT APPLICANT'S HANDBOOK VOLUME 1. IN ADDITION, DEWATERING ACTIVITIES MAY REQUIRE ADDITIONAL PERMITS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (INDUSTRIAL WASTEWATER) AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (CONSUMPTIVE USE).

PRIOR TO COMMENCEMENT OF CONSTRUCTION DEWATERING ACTIVITIES ANALYTICAL TEST OF UNTREATED GROUNDWATER FOR THE PARAMETERS LISTED IN TABLE 4-1 MUST BE PERFORMED FOR EACH LOCATION.

IF THE ANALYTICAL TESTS ARE WITHIN THE SCREENING VALUES LISTED IN TABLE 4-1 DEWATERING OF THE SITE MAY BEGIN IMMEDIATELY. A SUMMARY REPORT DESCRIBING THE PROPOSED ACTIVITY AND A COPY OF THE TEST REPORT SHOULD BE SENT TO THE LOCAL FDPD OFFICE WITHIN ONE WEEK AFTER DISCHARGE BEGINS.

ADDITIVE SAMPLES AND TESTING MUST BE PROVIDED WITHIN THIRTY DAYS AFTER INITIATION OF THE DISCHARGE AND THEN EVERY SIX MONTHS FOR THE DURATION OF THE PROJECT.

ALL ANALYTICAL TEST DATA, INCLUDING THIRTY DAY AND SIX MONTH TEST RESULTS SHOULD BE KEPT ON-SITE DURING DISCHARGE AND MADE AVAILABLE TO FDPD, IF REQUESTED.

DURING DEWATERING, APPROPRIATE FABRIC SILT FENCE OR HAY BALES SHALL BE USED TO PREVENT TURBID DISCHARGES. WHEN POSSIBLE, ESTABLISH A DETENTION AREA TO ALLOW SUSPENDED SOLIDS TO SETTLE PRIOR TO DISCHARGE.

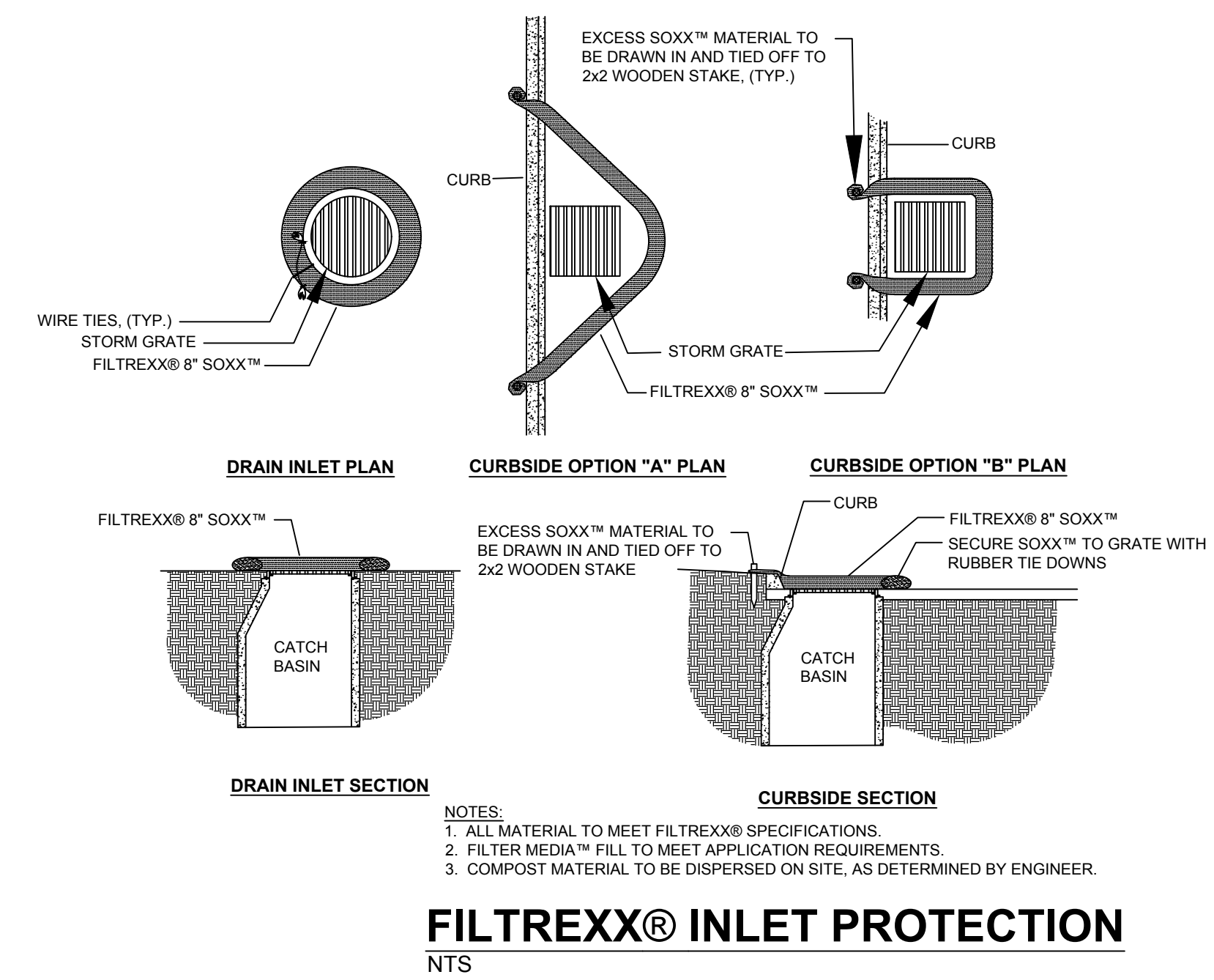
THE CONTRACTOR SHALL SELECT, IMPLEMENT AND OPERATE SUCH EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS IN CHAPTER 62-302 F.A.C.

GROUNDWATER WITHDRAWALS FOR DEWATERING SHALL BE BY ONE OF THE FOLLOWING METHODS:

- A) A CONVENTIONAL WELL POINT SYSTEM CONSISTING OF ONE OR MORE STAGES OF WELL POINTS INSTALLED NEAR THE PROPOSED EXCAVATION IN LINES OR RINGS, THE WELL POINTS SHALL BE INSTALLED IN VARIABLE SPACINGS AND CONNECTED TO A COMMON HEADER PRESSURIZED BY ONE OR MORE PUMPS.
- B) VACUUM UNDERDRAIN SYSTEM CONSISTING OF AN UNDERDRAIN PIPE WITH FILTER SOCK COVERING PLACED HORIZONTALLY BELOW THE DESIGN EXCAVATION ELEVATION VIA TRENCHING MACHINE. THE UNDERDRAIN PIPE SHALL BE CONNECTED TO A PUMP WITH THE GROUNDWATER CONVEYED THROUGH THE PIPE AND DISCHARGED FROM THE PUMP.
- C) VACUUM WELL(S) CONSISTING OF ONE OR MORE STAGES INSTALLED NEAR AN EXCAVATION IN LINES OR RINGS. THE VACUUM WELL(S) SHALL BE CONSTRUCTED WITH SIX INCH OR SMALLER PIPE WITH A SLOTTED SCREEN AREA NEAR THE BOTTOM OF THE WELL, AND CONNECTED TO A COMMON HEADER PUMPED BY ONE OR MORE PUMPS.
- D) DEWATERING STORMWATER POND OR BASIN BY HYDRAULIC PUMP THROUGH THE EXISTING OR NEW DISCHARGE CONTROL STRUCTURE.

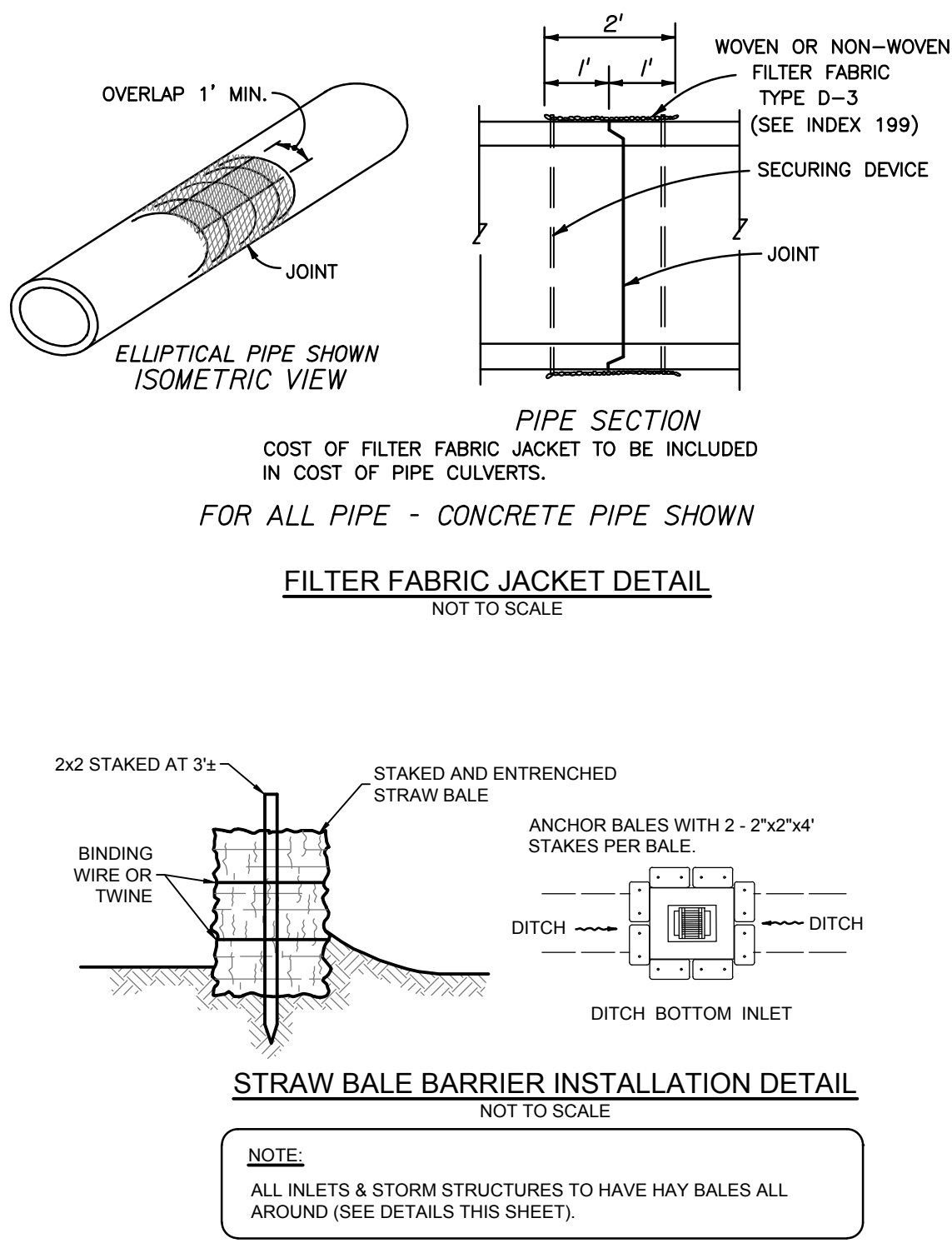
**EROSION CONTROL NOTES:**

1. EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
2. CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE COMPLETE.
3. THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ON-SITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-3 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO DISCHARGE.
4. ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.
5. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).

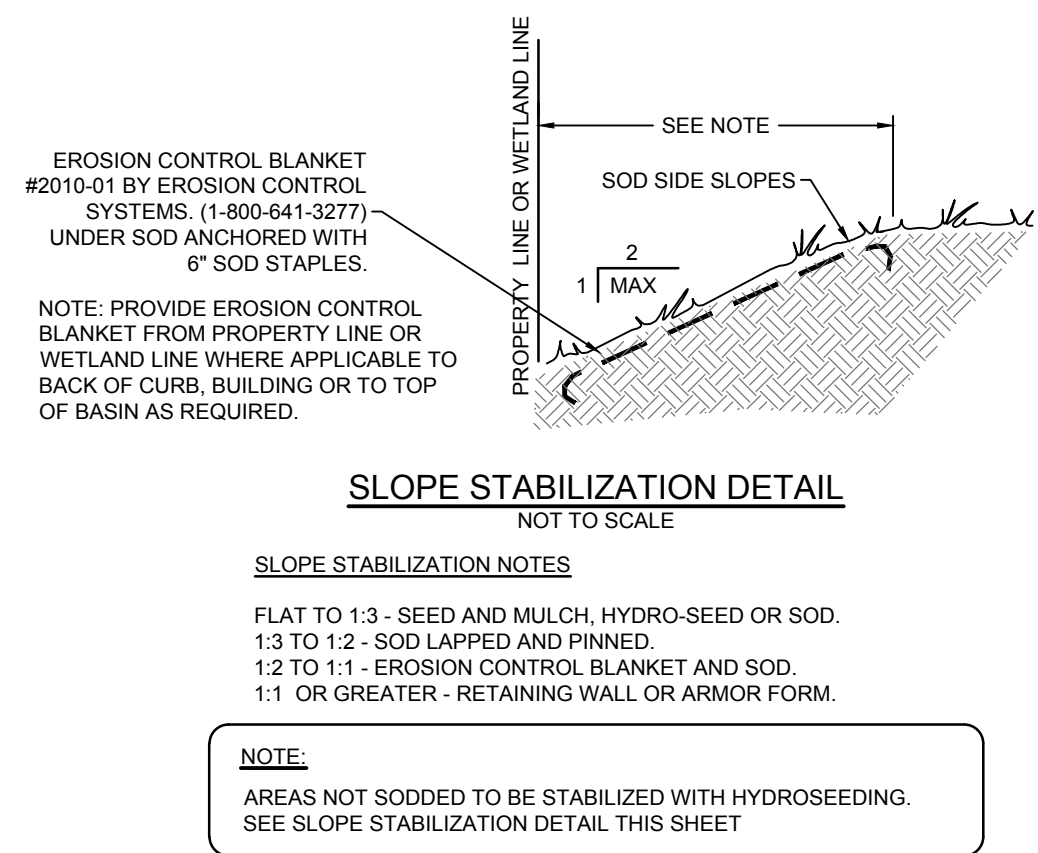


**FILTREXX® INLET PROTECTION**  
 NTS

NOTES:  
 1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.  
 2. FILTER MEDIA™ FILL TO MEET APPLICATION REQUIREMENTS.  
 3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.



NOTE:  
 ALL INLETS & STORM STRUCTURES TO HAVE HAY BALES ALL AROUND (SEE DETAILS THIS SHEET).



**SLOPE STABILIZATION NOTES:**  
 FLAT TO 1:3 - SEED AND MULCH, HYDRO-SEED OR SOD.  
 1:3 TO 1:2 - SOD LAPPED AND PINNED.  
 1:2 TO 1:1 - EROSION CONTROL BLANKET AND SOD.  
 1:1 OR GREATER - RETAINING WALL OR ARMOR FORM.

TABLE 4-1 GROUNDWATER DISCHARGE - SCREENING VALUES	
PARAMETER	SCREENING VALUES FOR DISCHARGE INTO FRESH WATER
TOTAL ORGANIC CARBON (TOC)	10.0 mg/L
PH, STANDARD UNITS	6.0 - 8.5
TOTAL RECOVERABLE MERCURY	0.012 ug/L
TOTAL RECOVERABLE CADMIUM	9.3 ug/L
TOTAL RECOVERABLE COPPER	2.9 ug/L
TOTAL RECOVERABLE LEAD	0.03 ug/L
TOTAL RECOVERABLE ZINC	86.0 ug/L
TOTAL RECOVERABLE CHROMIUM (HEX.)	11.0 ug/L
BENZENE	1.0 ug/L
NAPHTHALENE	100.0 ug/L

mg/L = milligrams per liter  
 ug/L = micrograms per liter

REV	DATE	BY	REVISIONS

SCALE: AS NOTED
DESIGNED BY: CBF
DRAWN BY: JAH
REVIEWED BY: CBF
ISSUE DATE: FEBRUARY 2022
ACAD FILE NAME: 25018e1.dwg

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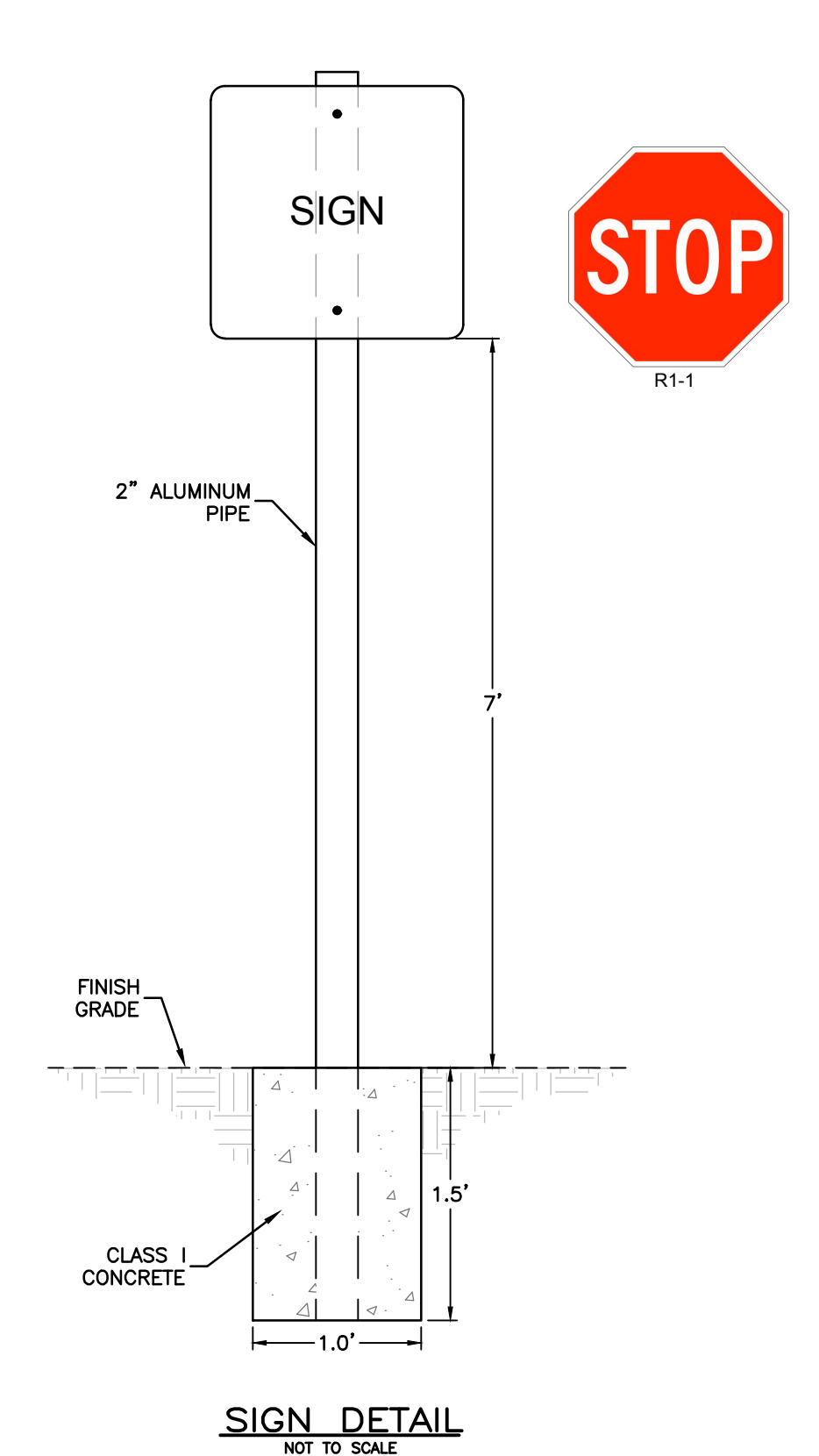
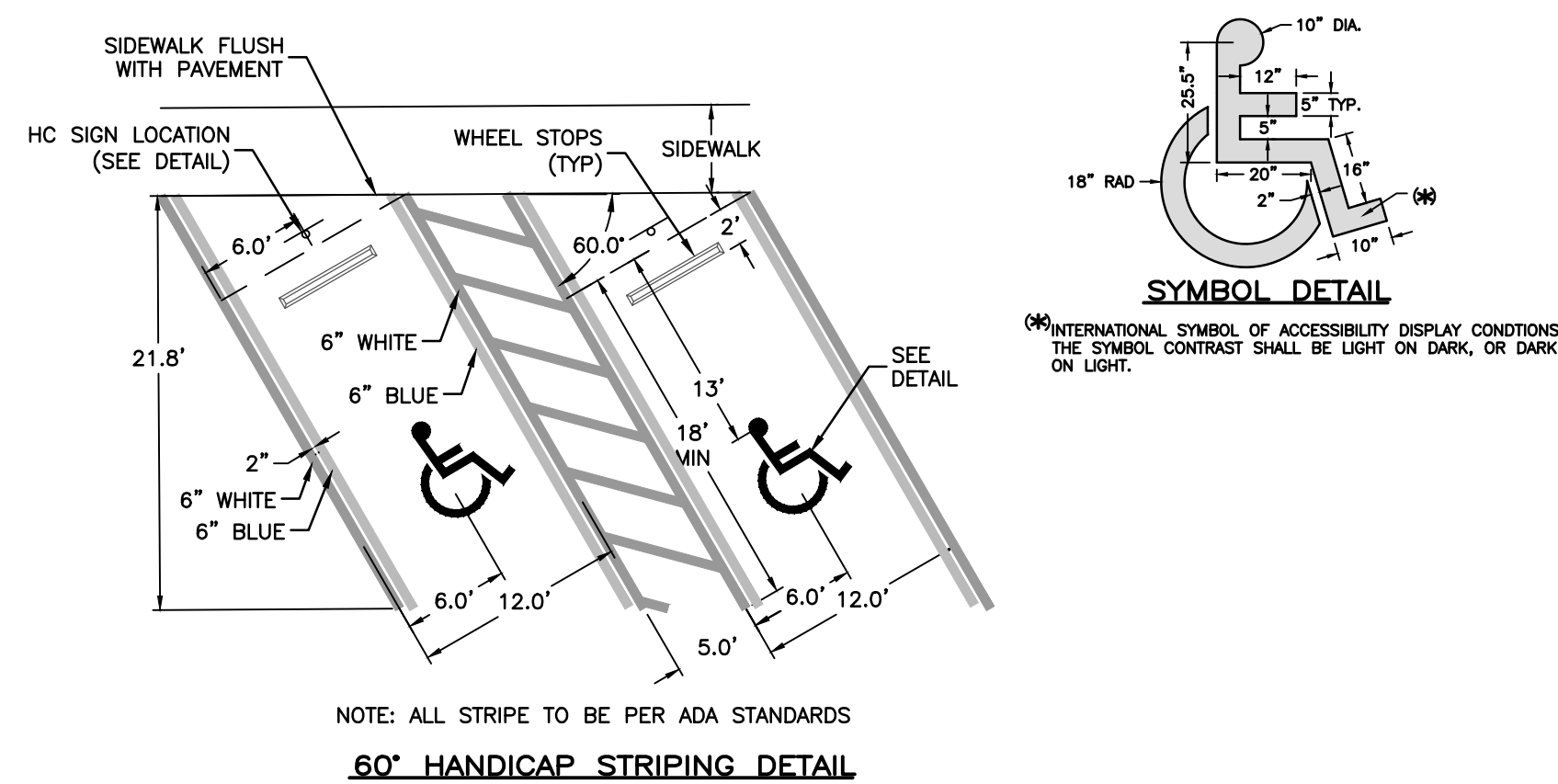
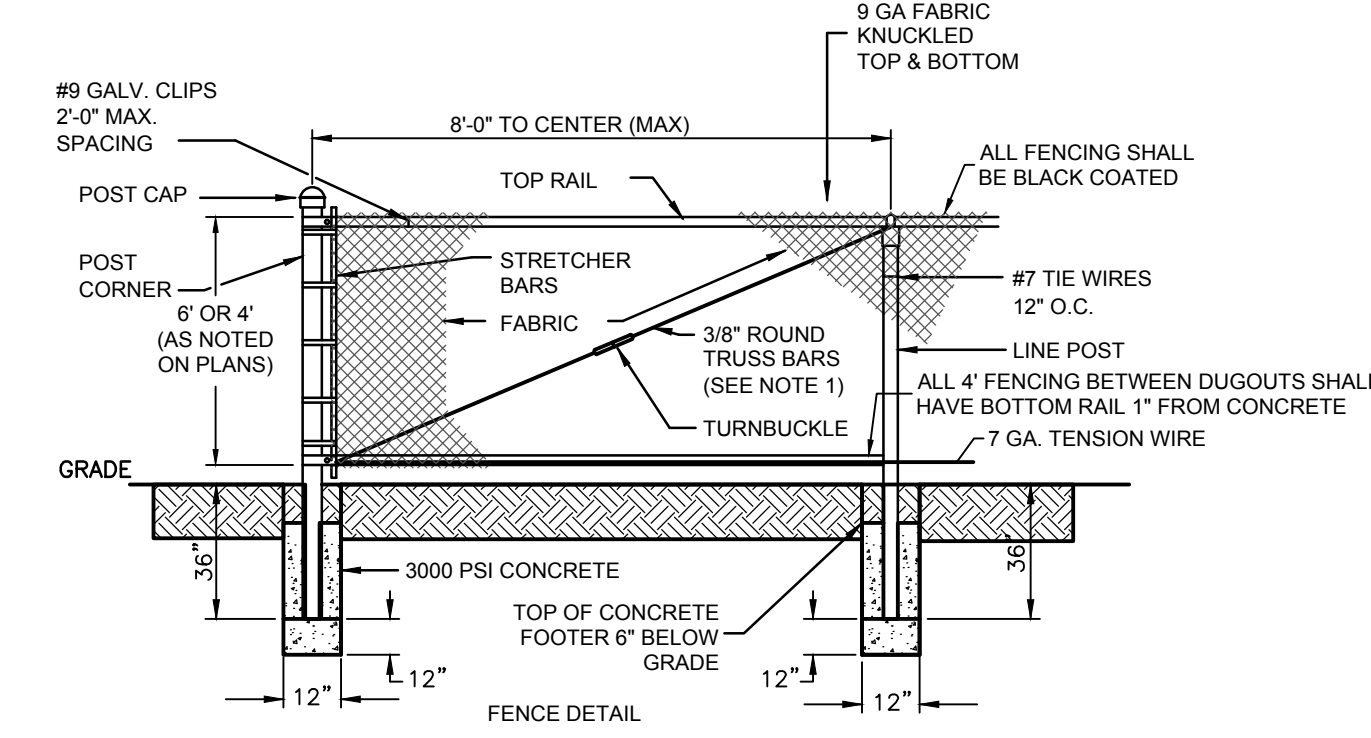
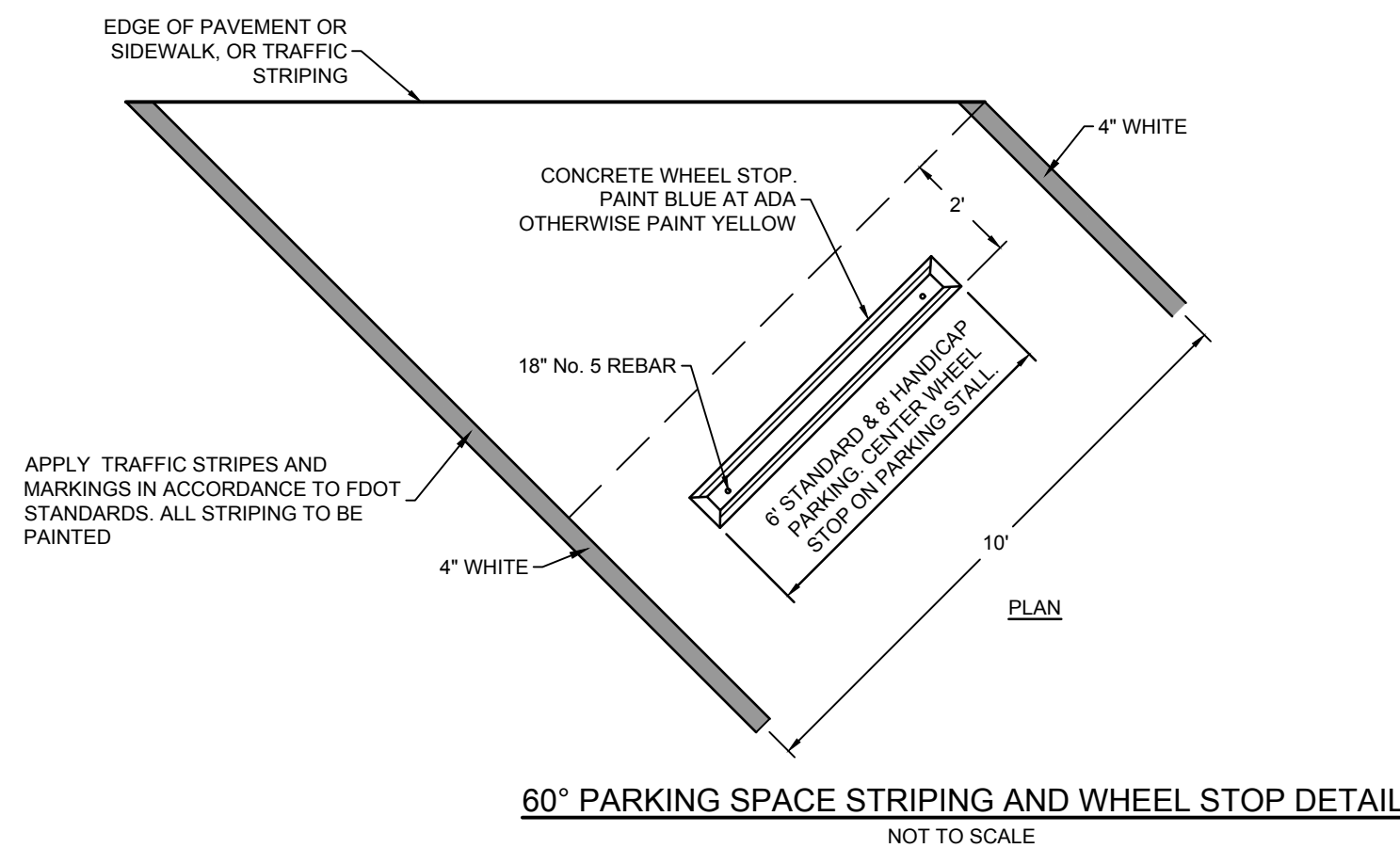
**EROSION CONTROL PLAN  
 GORE PARK  
 IMPROVEMENTS  
 CALLAWAY, FLORIDA**

James H. Slonina, P.E. 39197  
 Christopher B. Forehand, P.E. 58028  
 Stephen E. Price, P.E. 71646  
 J. Doug Crook, P.E. 66556

**CHRISTOPHER B. FOREHAND, P.E.**  
 NO. 58028  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

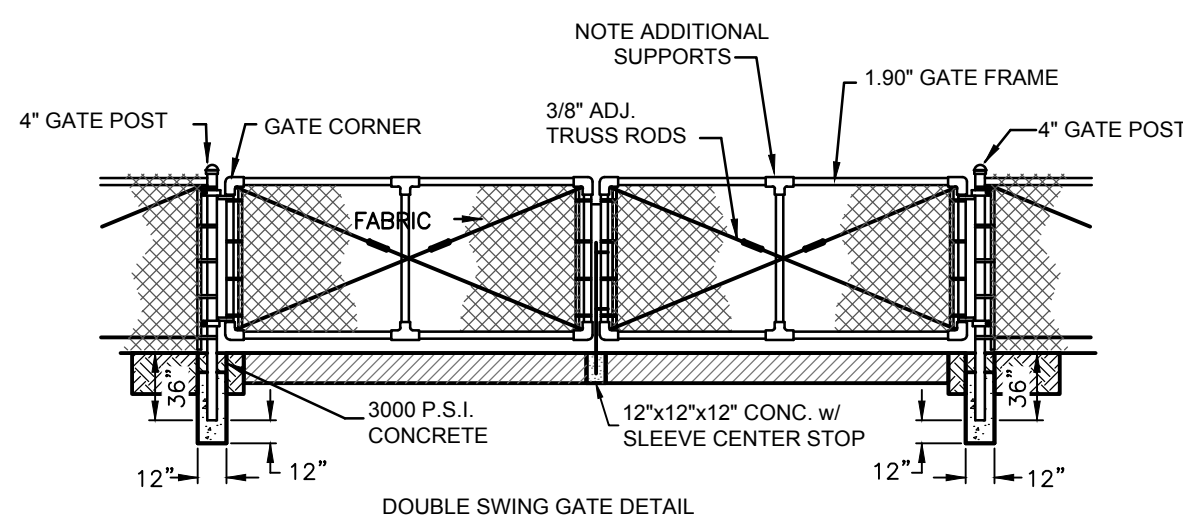
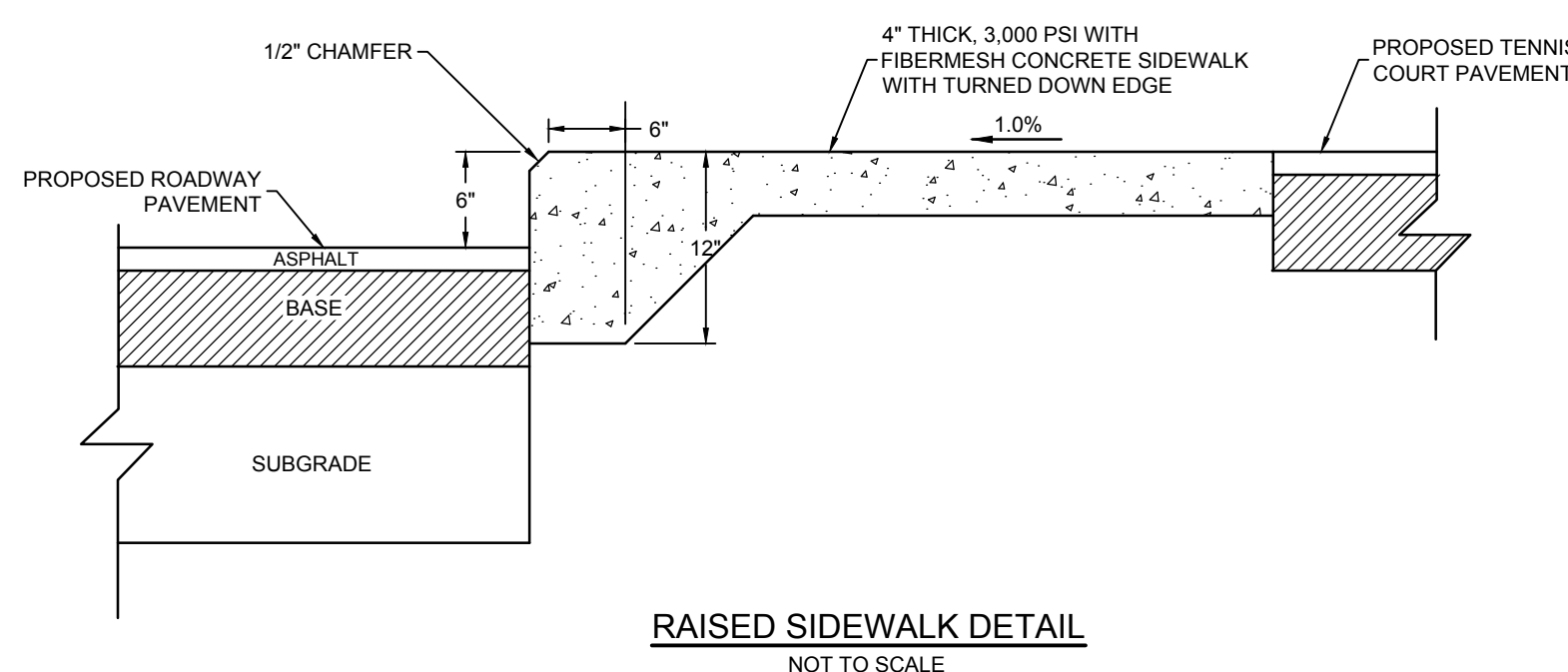
SHEET NUMBER	C7
PROJECT NUMBER	26018



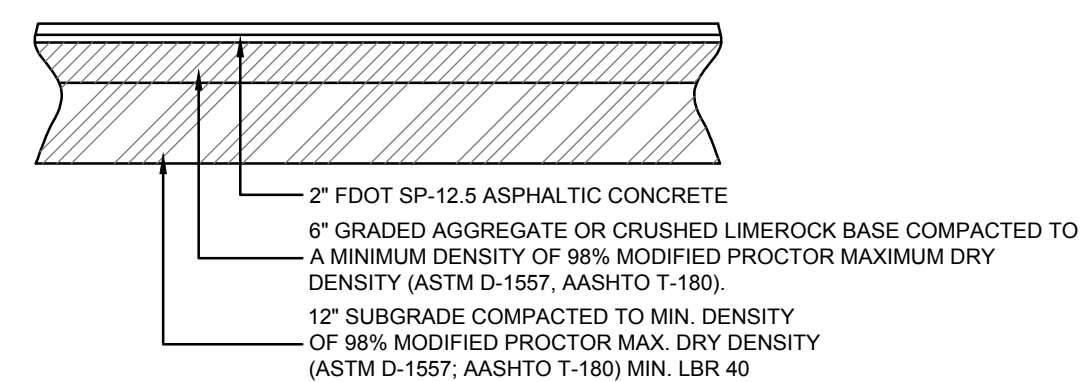


1. INSTALL DETECTABLE WARNINGS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 527.
2. PLACE DETECTABLE WARNINGS ACROSS THE FULL WIDTH OF THE RAMP OR LANDING TO A DEPTH OF 2 FEET MEASURED PERPENDICULAR TO THE CURB LINE AND NO GREATER THAN 5 FEET FROM THE BACK OF THE CURB OR EDGE OF PAVEMENT.
3. COLOR AND TEXTURE OF DETECTABLE WARNINGS SHALL BE COMPLETE AND UNIFORM.
4. 90% OF INDIVIDUAL TRUNCATED DOMES SHALL BE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT STANDARDS FOR TRANSPORTATION FACILITIES, SECTION 705.
5. THERE SHALL BE NO MORE THAN 4 NON-COMPLIANT DOMES IN ANY ONE SQUARE FOOT.
6. NON-COMPLIANT DOMES SHALL NOT BE ADJACENT TO OTHER NON-COMPLIANT DOMES.
7. SURFACES SHALL NOT DEVIATE MORE THAN 0.10" FROM A TRUE PLANE.

**DETECTABLE WARNINGS DETAIL**  
NOT TO SCALE

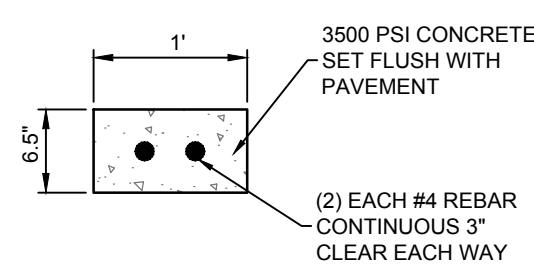


**CHAINLINK FENCE DETAIL**  
NOT TO SCALE

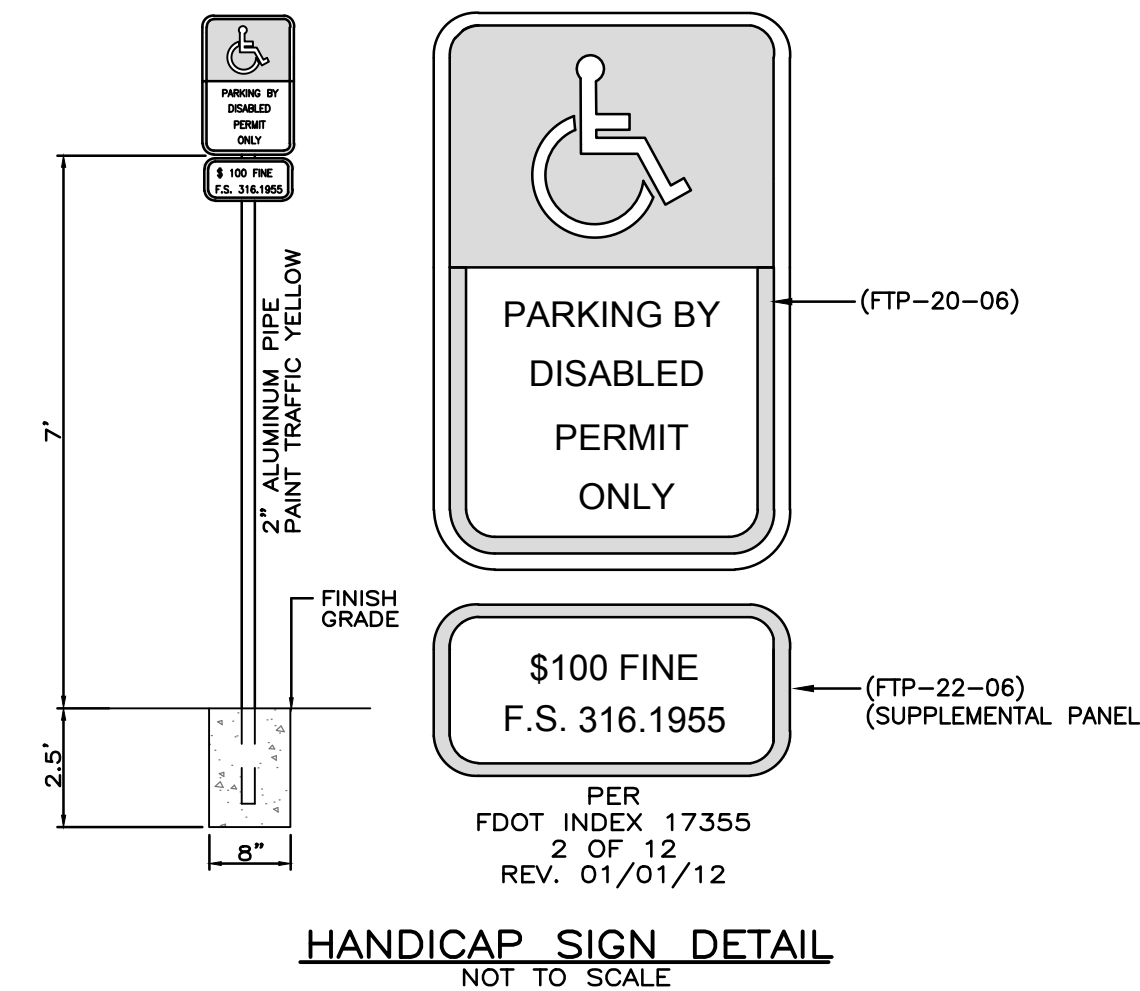
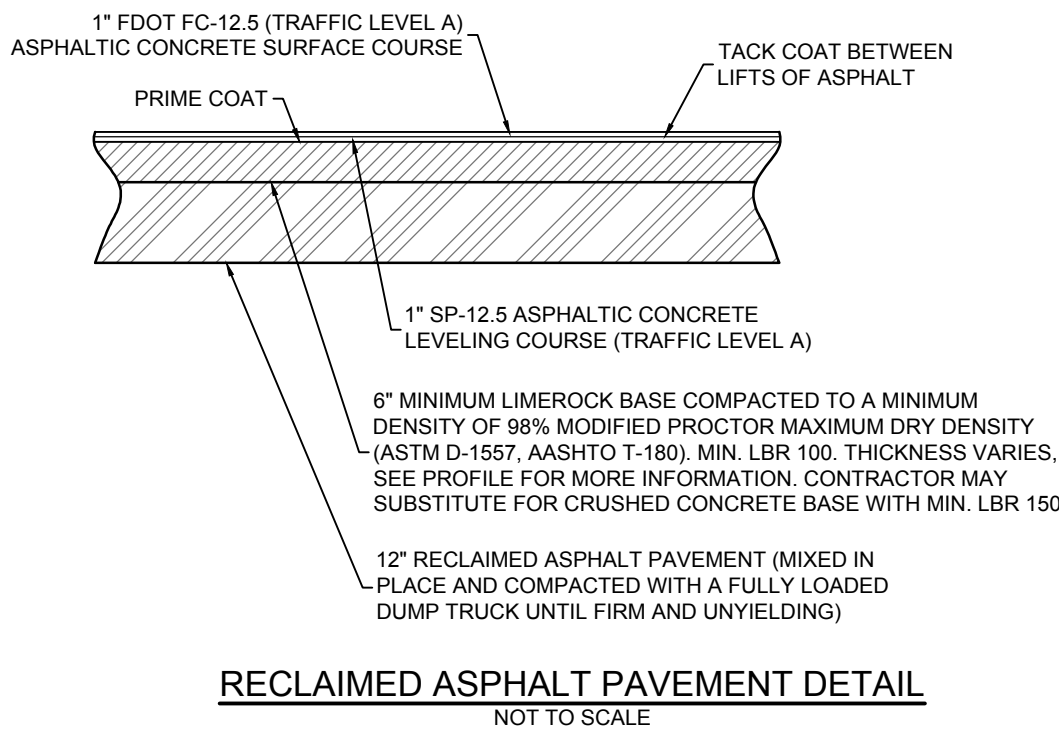


- PAVEMENT NOTES:**
1. CLEAR AND GRUB SURFACE SOILS WITHIN THE PAVEMENT PERIMETER AND 4 FT. MIN. BEYOND THE EDGE OF PAVEMENT.
  2. FILL MATERIAL SHALL BE CLEAN SANDS TO SLIGHTLY SILTY SANDS CONTAINING NO MORE THAN 12% FINER THAN THE U.S. No. 200 MESH SIEVE AND FREE OF ORGANICS OR CLAY.
  3. FILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER MODIFIED PROCTOR (AASHTO T-180)

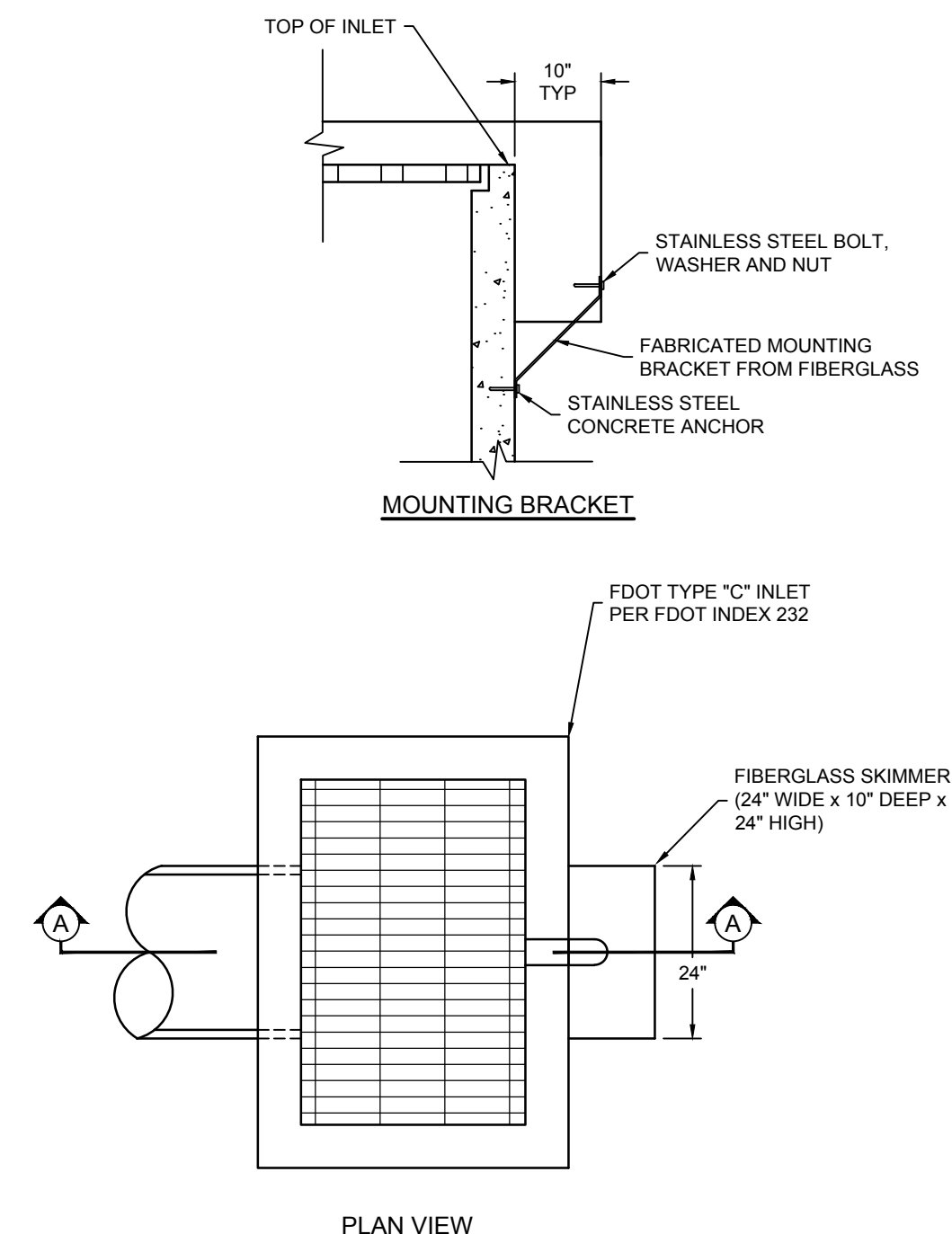
**ASPHALT PAVEMENT DETAIL**  
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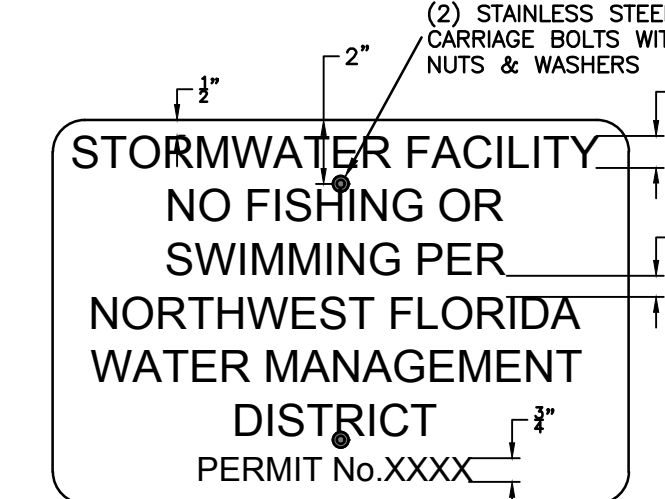
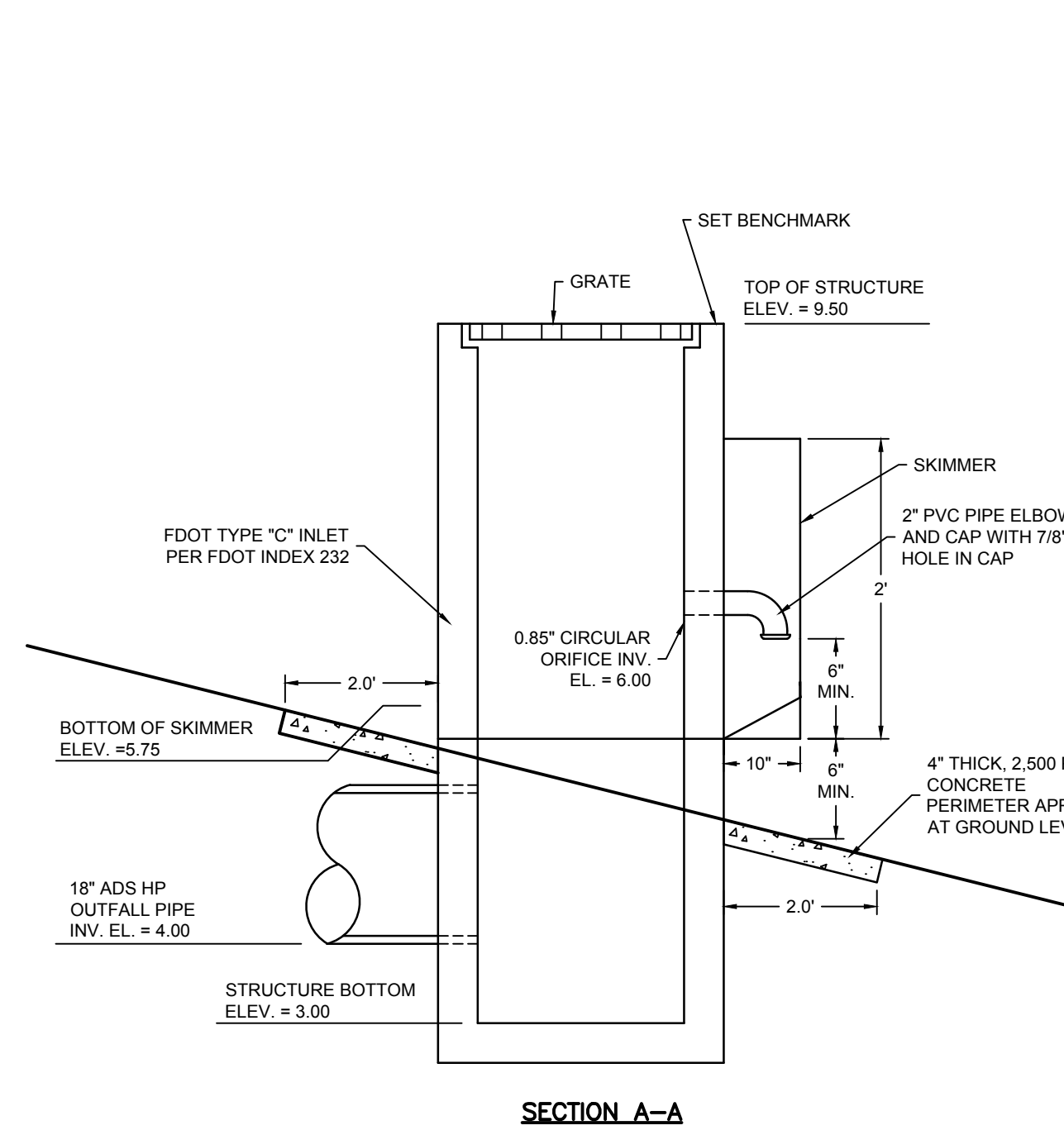
**RIBBON CURB DETAIL**  
NOT TO SCALE



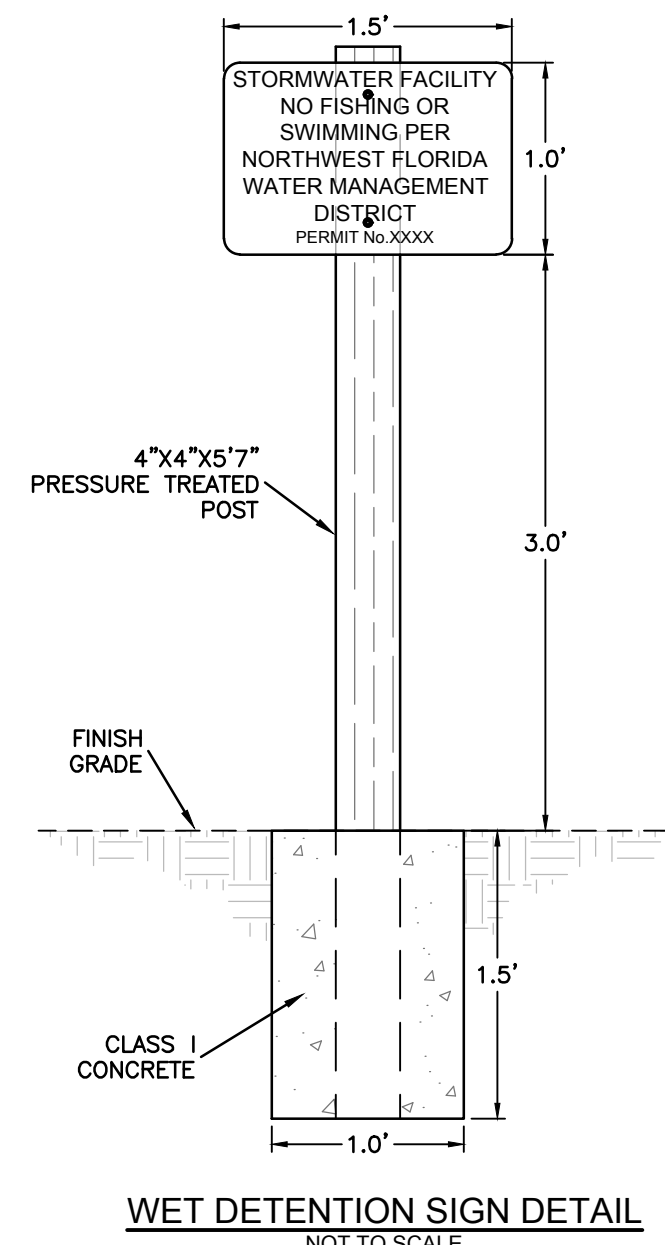
**HANDICAP SIGN DETAIL**  
NOT TO SCALE



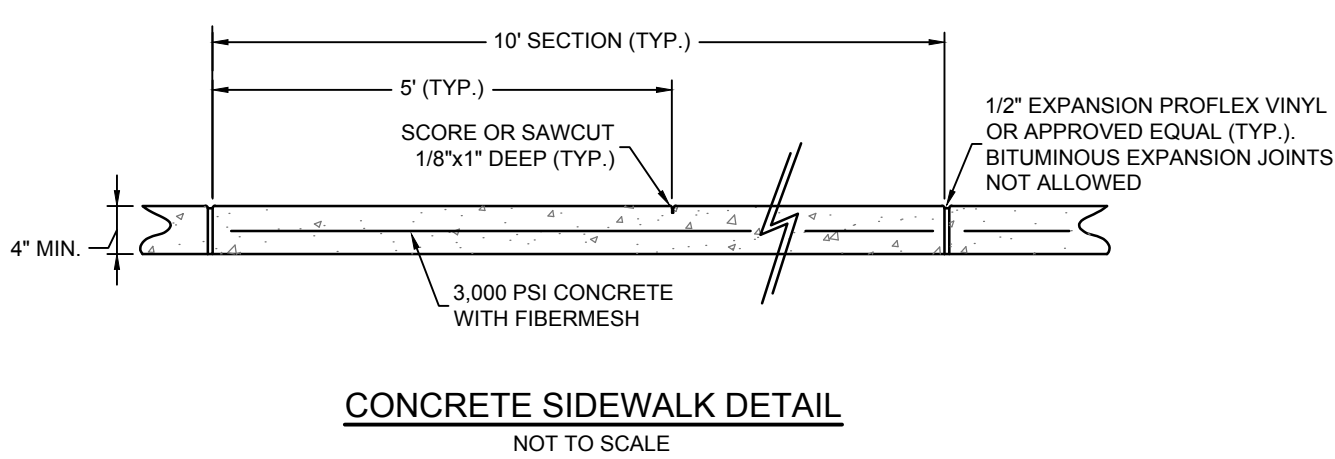
**PROPOSED POND CONTROL STRUCTURE DETAIL**  
NOT TO SCALE



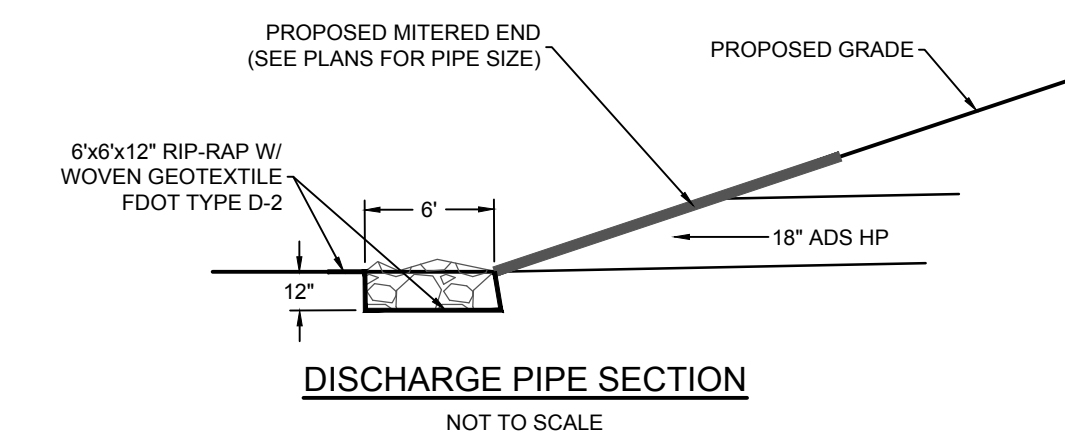
INSTALL WET DETENTION SIGNS IN LOCATIONS AS INDICATED IN PLAN VIEW



**WET DETENTION SIGN DETAIL**  
NOT TO SCALE



**CONCRETE SIDEWALK DETAIL**  
NOT TO SCALE



**DISCHARGE PIPE SECTION**  
NOT TO SCALE

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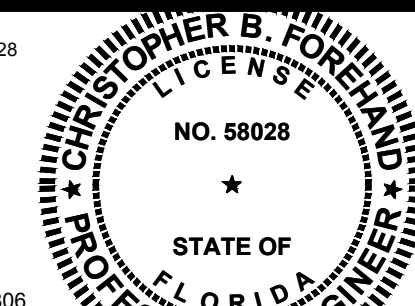
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SCALE:	AS NOTED
DESIGNED BY:	CBF
DRAWN BY:	JAH
REVIEWED BY:	CBF
ISSUE DATE:	FEBRUARY 2022
ACAD FILE NAME:	26018a1.dwg

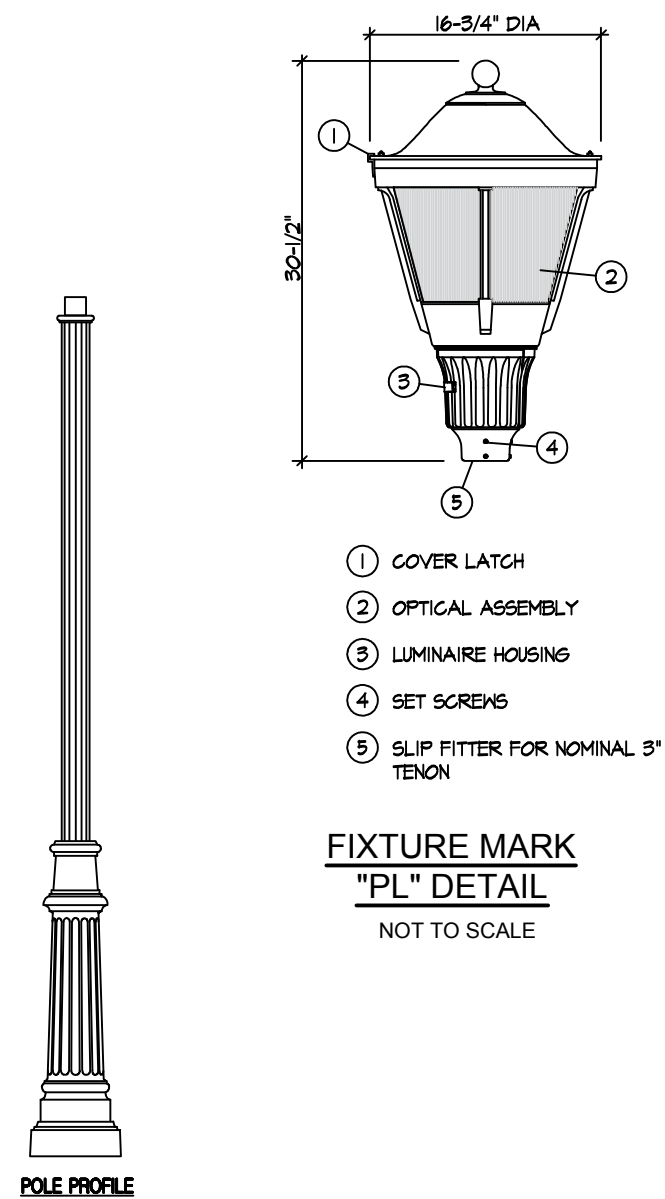
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**CONSTRUCTION DETAILS**  
GORE PARK IMPROVEMENTS  
CALLAWAY, FLORIDA

James H. Slonina, P.E. 39197  
Christopher B. Forehand, P.E. 58028  
Stephen E. Price, P.E. 71646  
J. Doug Crook, P.E. 66556



SHEET NUMBER	D1
PROJECT NUMBER	26018



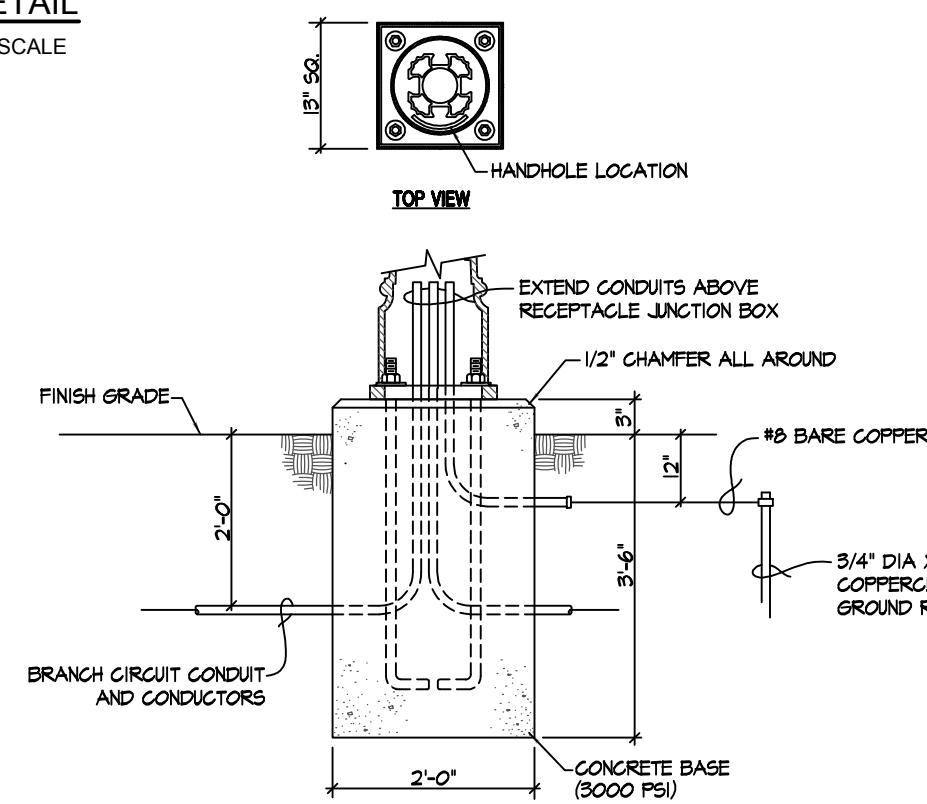
POLE MOUNTED DECORATIVE LED LIGHT FIXTURE  
CAST ALUMINUM HOUSING MOUNTED ON  
ONE-PIECE CAST ALUMINUM DECORATIVE POSTS.  
(SEE DETAIL THIS SHEET)

HALOPHANE 100W LED ~ 4000K LIGHT FIXTURE:  
PTUE2P2040KASGL3BKSPCSP7

HALOPHANE POLE (12' AFF):  
SMA12F4C13P07AB

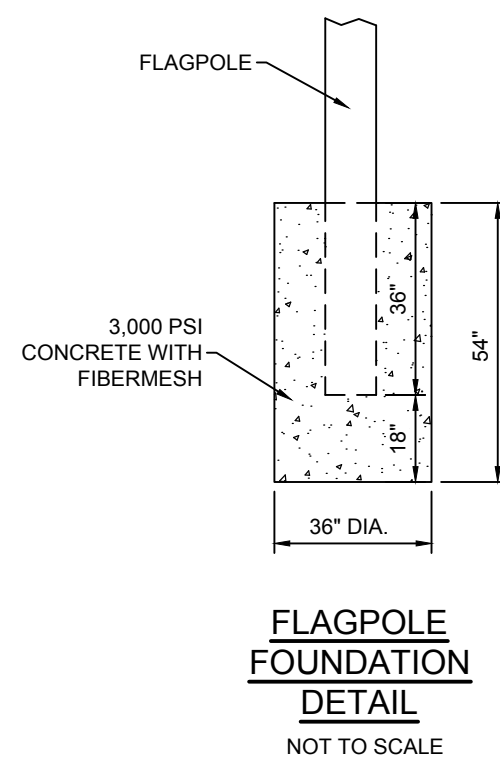
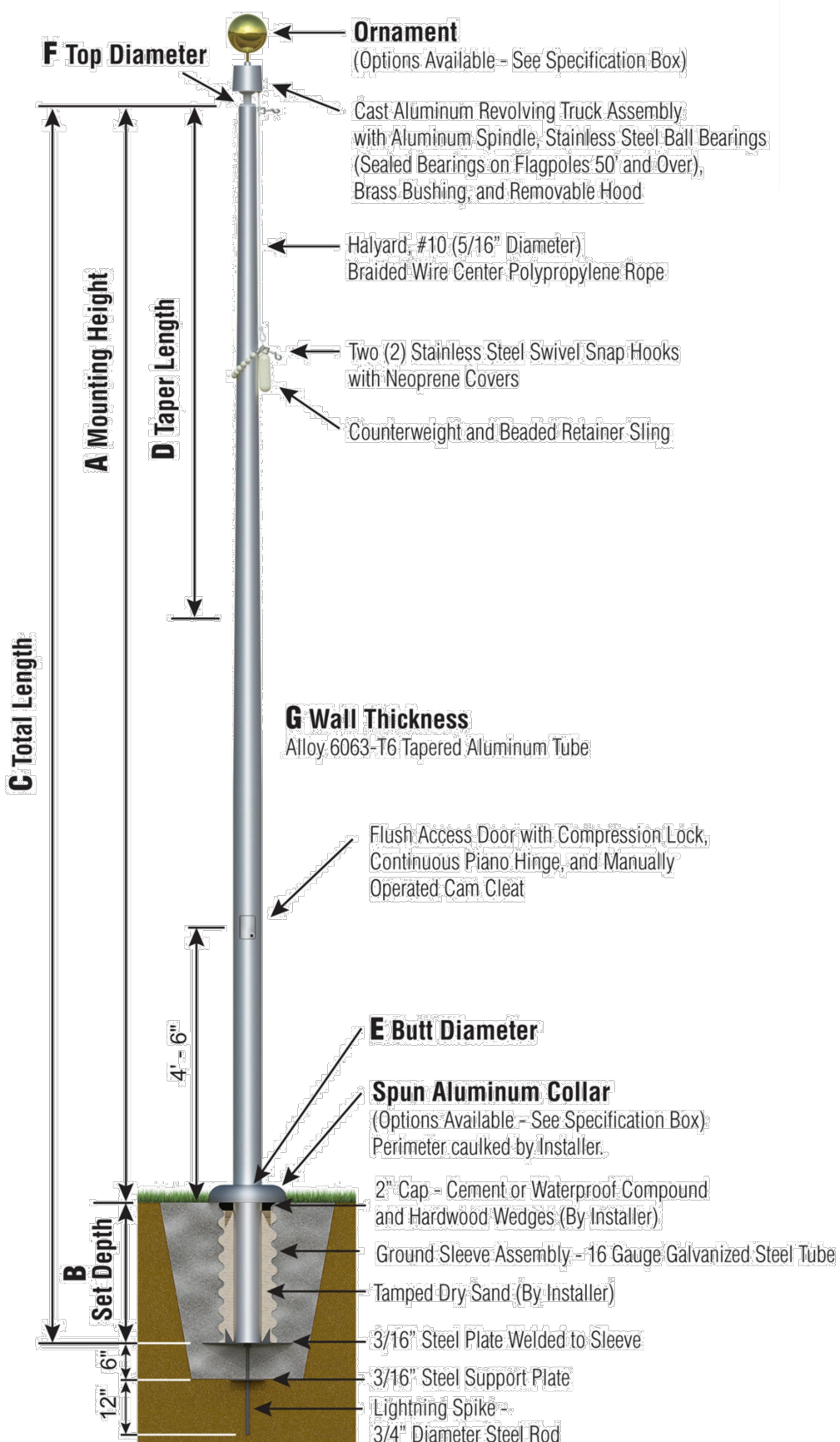
FIXTURE MARK  
"PL" DETAIL  
NOT TO SCALE

NOTE:  
SITE LIGHTING SHALL CONNECT TO MUSCO LIGHTING  
CONTROLLER SYSTEM.



FIXTURE "PL" TYPICAL POLE FOUNDATION DETAIL  
NOT TO SCALE

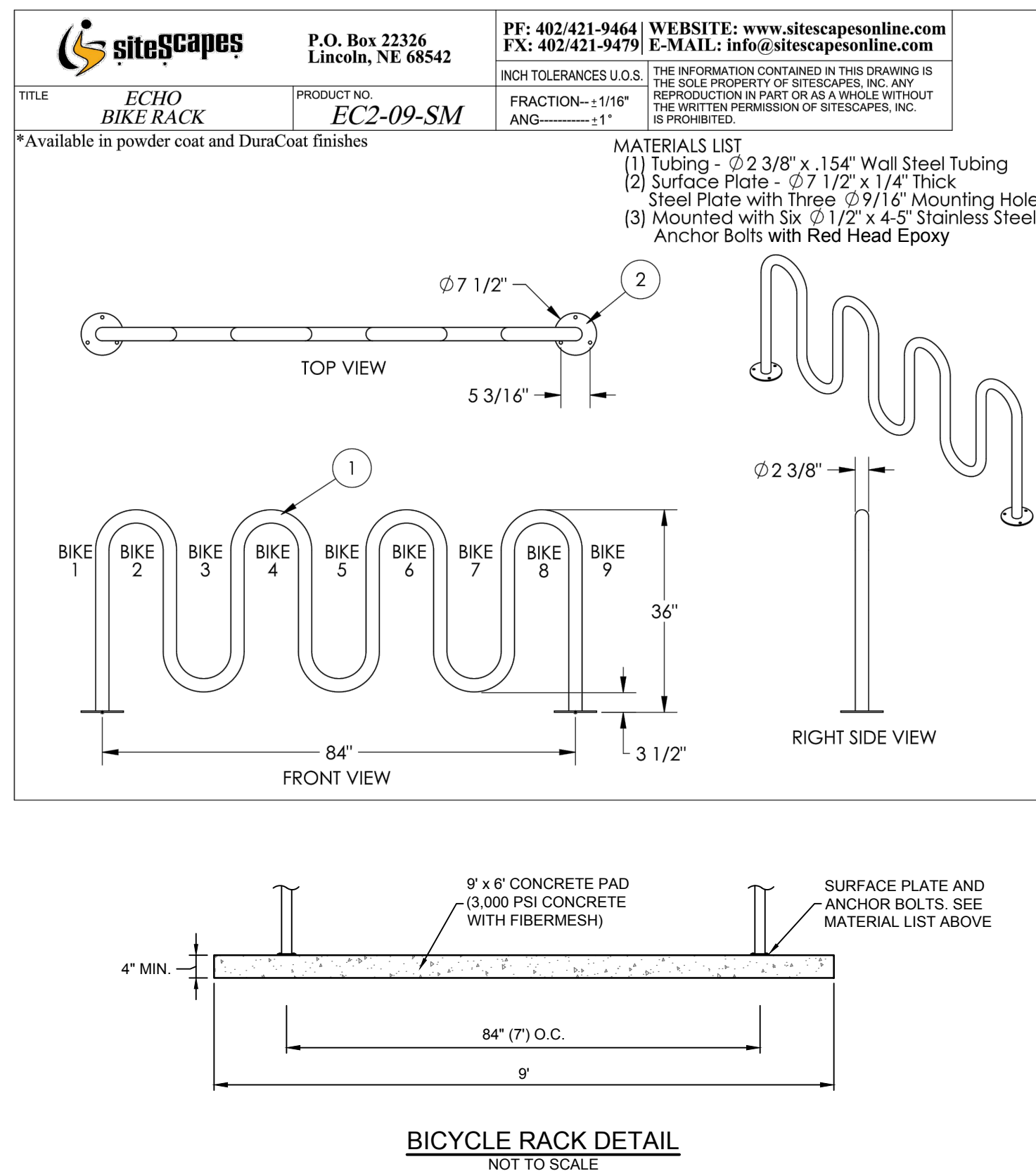
Monarch Series - ICC  
Internal Cam Cleat  
Rope Halyard  
Ground Set Installation  
OR APPROVED EQUAL



EXAMPLE FLAGPOLE LAYOUT

SPECIFICATIONS:

40 FT. IN HEIGHT WITH INTERNAL CAM ROPE HALYARD SYSTEM.  
CONTRACTOR TO SUBMIT SHOP DRAWING FOR CITY APPROVAL.



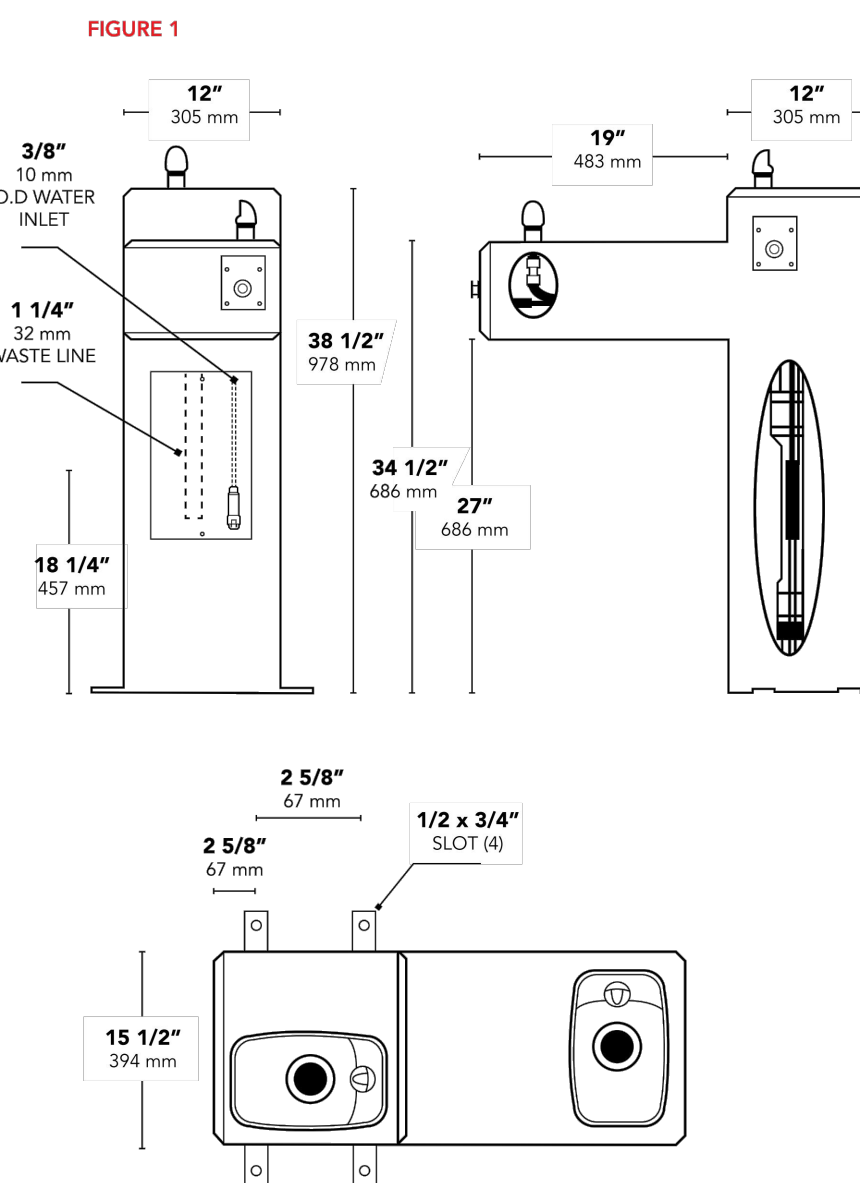
IMPORTANT! INSTALLER PLEASE NOTE  
Mounting structure must be capable of supporting 300 lb. load on fountain.

GENERAL INSTALL TIPS

- Water supply 3/8" O.D. unplated copper tube. Waste 1-1/4" IPS. Contractor to supply waste trap and service stop valve in accordance with local code.
- Connecting lines to be made of unplated copper and should be thoroughly flushed to remove all foreign matter before being connected to fountain. This fountain is manufactured in such a manner that it does not in any way cause taste, odor, color, or sediment problems.
- Connect fountain to supply line with a shut-off valve and install a 3/8" unplated copper water line between the valve and the cooler. Remove any burrs from the outside of water line. Push the tubes straight into the fittings until they reach a positive stop, approximately 3/4" (see figures 2 and 3).
- These products are designed to operate on 20 psig to 105 psig supply line pressure. If inlet pressure is above 105 psig, a pressure regulator must be installed in the supply line. Any damage caused by reason of connecting this product to supply line pressures lower than 20 psig or higher than 105 psig is not covered by warranty.

START UP

- This fountain is to be mounted on a smooth, flat, finished surface with adequate support structure.
- Refer to rough-in for plumbing.
- Install shut-off valve on water supply. (valve not furnished)
- Locate and install fountain using 3/8" minimum anchor screws or bolts. (screws or bolts not furnished)
- Connect water supply and fountain drain. Water connection & drain must comply with local codes.
- Turn on water supply and check all connections for leaks.



DRINKING FOUNTAIN DETAIL  
NOT TO SCALE

2 DF-DUAL - Owner's Manual

Norwood Commercial Furniture

Norwood Commercial Furniture offers everything your school needs, from from book trucks and library shelving to stack chairs, storage cabinets and other classroom essentials.  
1.800.260.2776

The Norwood Commercial Furniture Recycled Plastic Bench features durable construction that's virtually maintenance-free. Environmentally-friendly materials won't fade or warp and don't need paint or sanding. Arms on both sides make this bench an inviting resting place. Choose from several colors.



Recycled Plastic Bench w/ Arms (6' L)

• Choose a portable or surface mount.

PRODUCT SKU	SPECIFICATIONS AND FEATURES		
NOR-ASM-EM6BA-02	<b>MATERIAL</b> • RECYCLED PLASTIC	<b>SEAT HEIGHT</b> • 17 1/4"	<b>HEIGHT</b> • 32 3/4"
	<b>MOUNT</b> • PORTABLE	<b>SEAT DEPTH</b> • 14 3/4"	<b>BENCH COLOR OPTIONS</b> • BLACK, BROWN, CEDAR, CHARCOAL, GREEN, SAND, WEATHERED
	<b>SLATS</b> • 1 1/4" X 3"	<b>LENGTH</b> • 6'	<b>FRAME COLOR OPTIONS</b> • BLACK, BROWN, GREEN
	<b>WARRANTY</b> • 20-YEAR LIMITED	<b>DEPTH</b> • 26 1/8"	<b>ASSEMBLY</b> • REQUIRED

Shop now ▶

For more information please visit [www.schooloutfitters.com](http://www.schooloutfitters.com) or call us at 1.800.260.2776



NOTE: PROVIDE (8) TRASH CANS TO BE PLACED BY THE CITY

Norwood Commercial Furniture

Norwood Commercial Furniture offers everything your school needs, from from book trucks and library shelving to stack chairs, storage cabinets and other classroom essentials.  
1.800.260.2776

Norwood's Madison Series Trash Can with Lid and Liner adds a distinguished touch to any environment. Its slatted construction and flared top feature a powder coat finish that won't rust or stain. The flat top lid keeps water out and a plastic liner is easy to remove and empty.



Madison Series Trash Can w/ Lid & Liner

• Plastic liner and flat-top lid included.

PRODUCT SKU	SPECIFICATIONS AND FEATURES		
NOR-JK-36FT	<b>CONSTRUCTION</b> • SLATTED STEEL RECEPTACLE W/ PLASTIC CAN LINER	<b>WARRANTY</b> • 3-YEAR LIMITED	<b>COLOR OPTIONS</b> • GREEN, BLACK
	<b>FINISH</b> • POWDER COAT	<b>DIAMETER</b> • 27 1/2"	<b>ASSEMBLY</b> • NOT REQUIRED
	<b>CAPACITY</b> • 36 GALLONS	<b>HEIGHT</b> • 32 3/4"	

Shop now ▶

For more information please visit [www.schooloutfitters.com](http://www.schooloutfitters.com) or call us at 1.800.260.2776



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J. Doug Crook, P.E. 66556

CHRISTOPHER B. FOREHAND, P.E.  
NO. 58028  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

SHEET NUMBER	D2
PROJECT NUMBER	26018

DPR CERTIFICATION #EB-7806

Date: Wednesday, February 2, 2022 10:57:07 AM ID: Jim Haskland File: P:\26018 Gore Park Callaway\1\_Civil\3DFabric\Drawings\26018e1.dwg

26018 GORE PARK IMPROVEMENTS CONSTRUCTION DETAILS Sheet D2

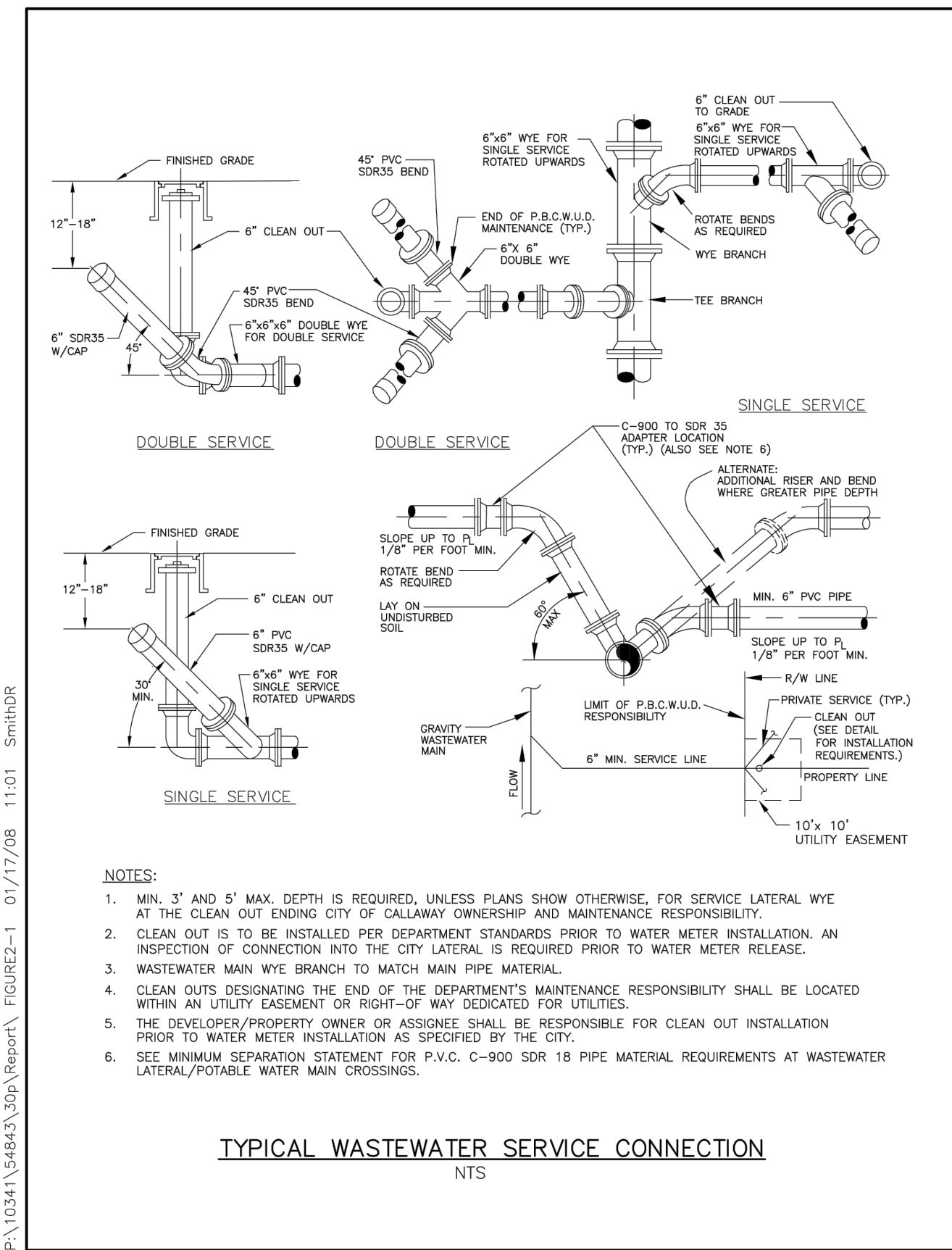


Figure 2-1  
City Of Callaway  
Typical Wastewater Service Connection

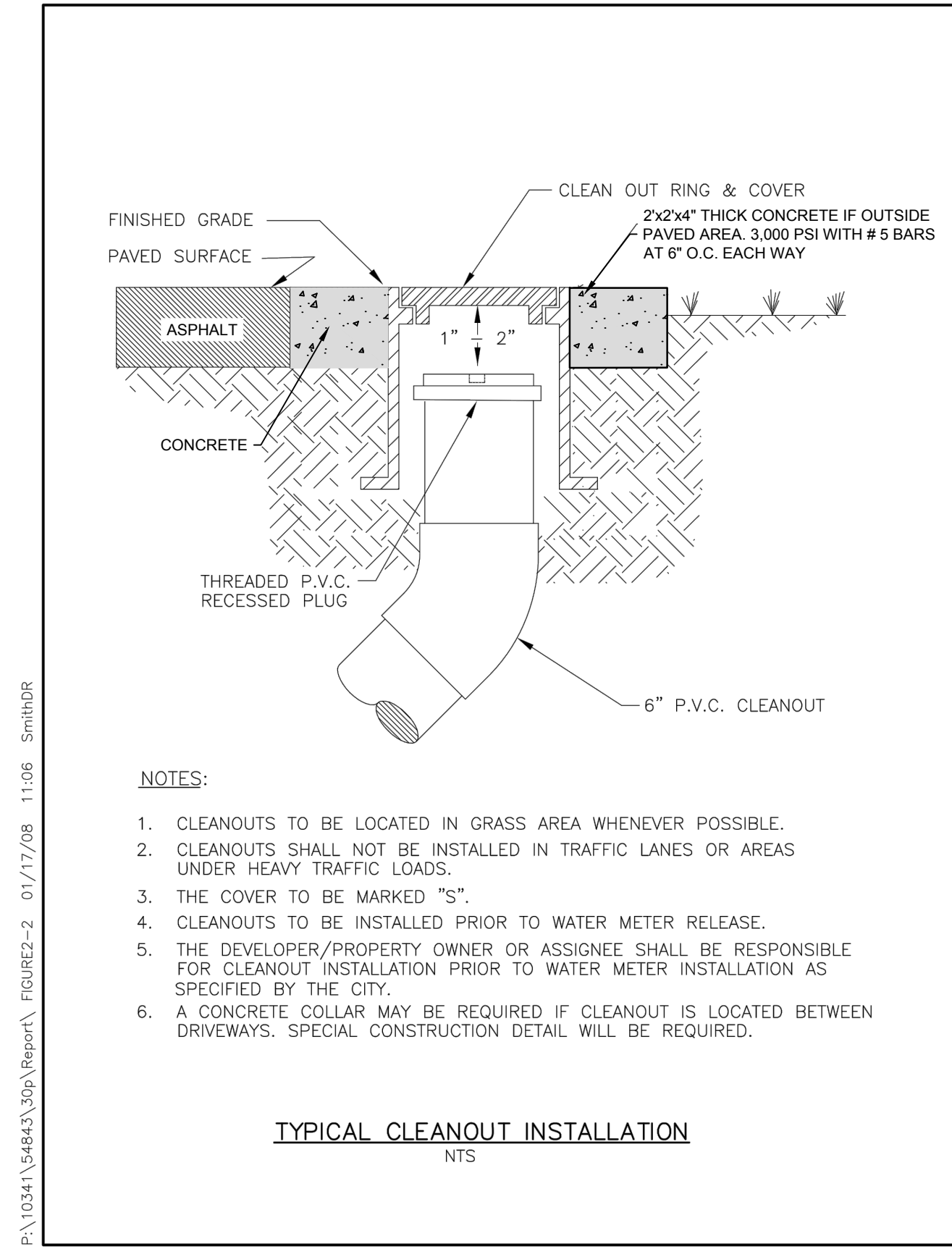


Figure 2-2  
City Of Callaway  
Typical Cleanout Installation

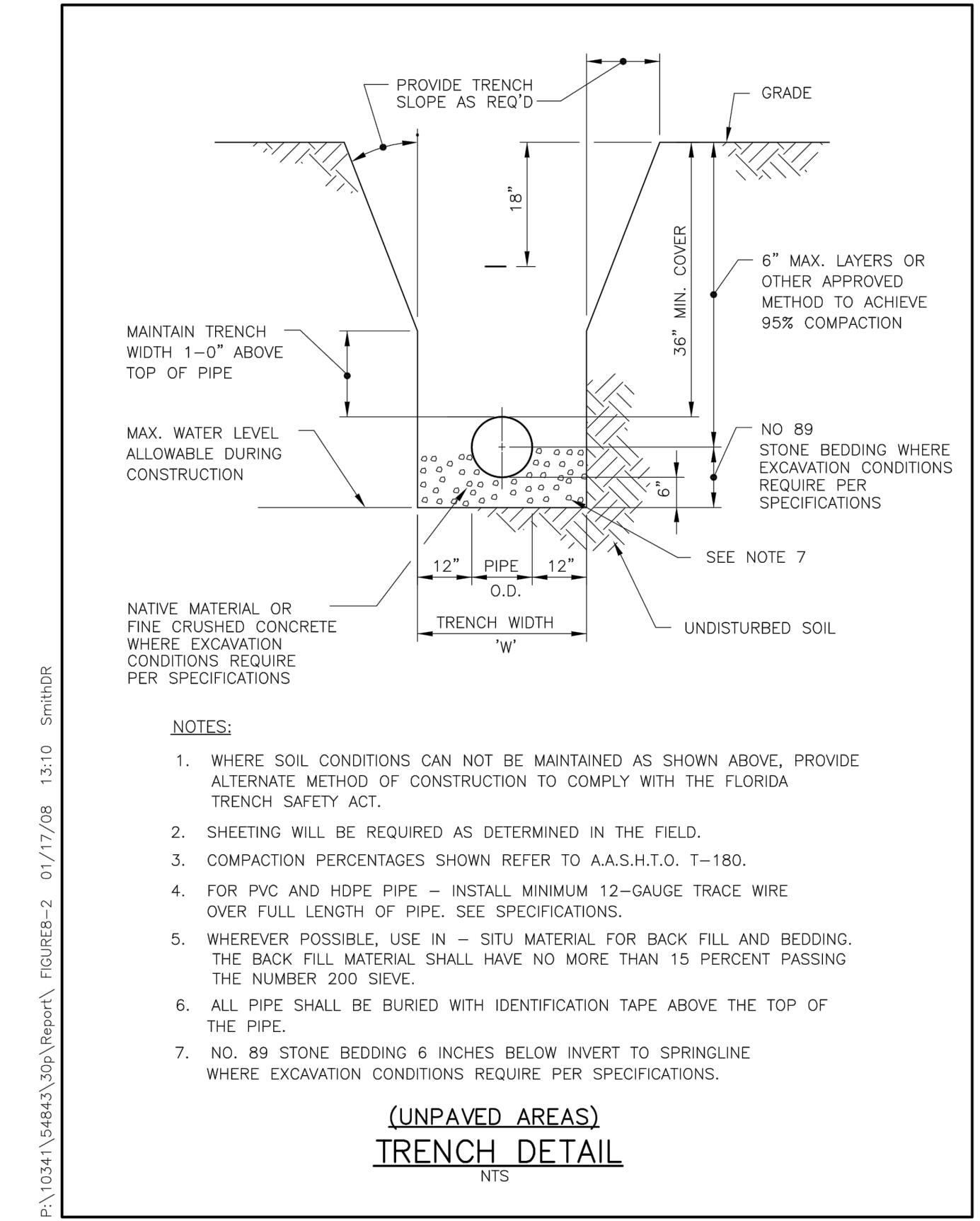


Figure 8-2  
City Of Callaway  
Trench Detail

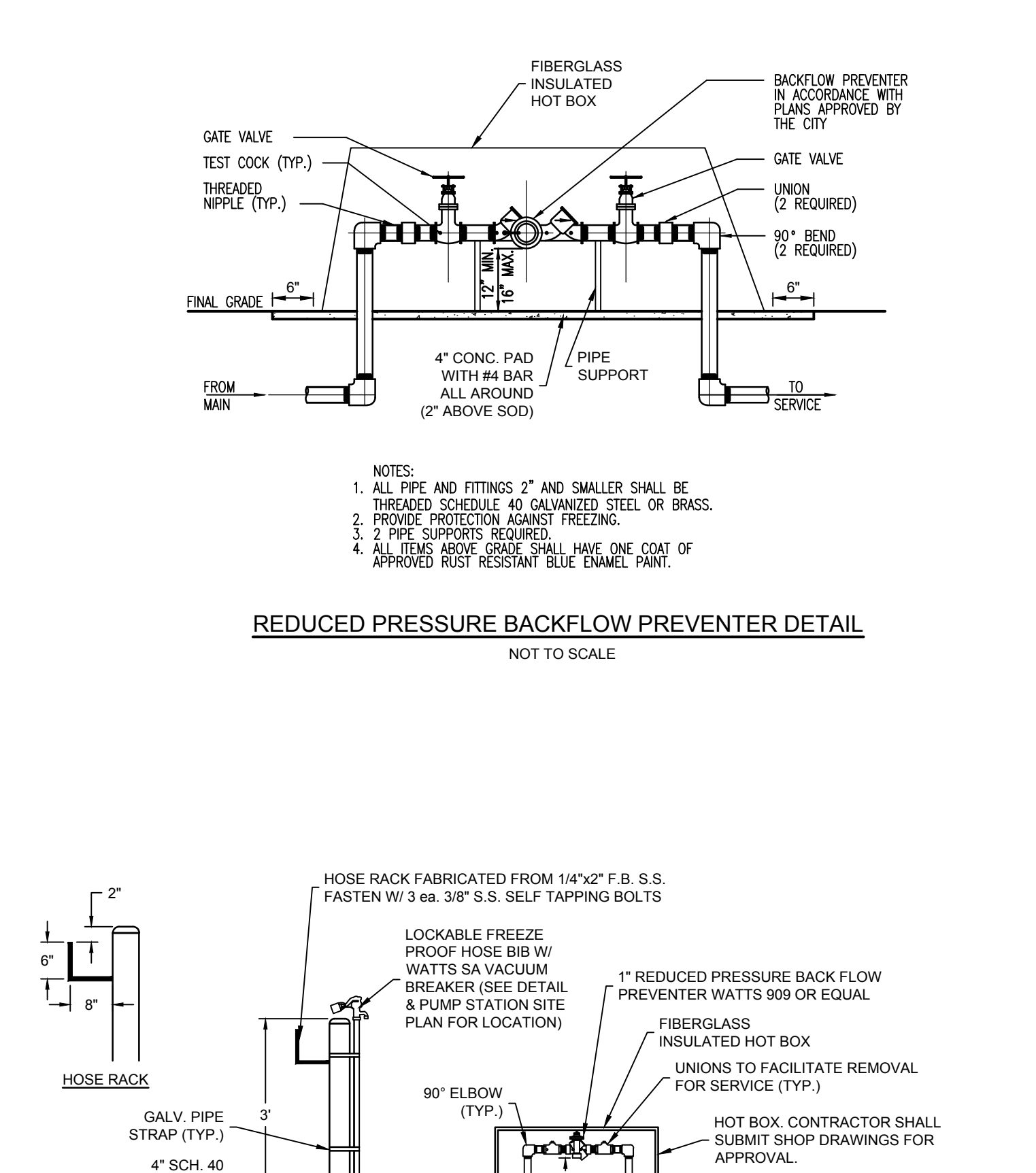
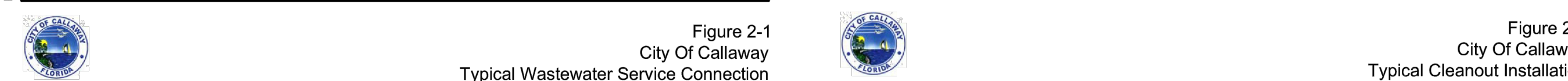
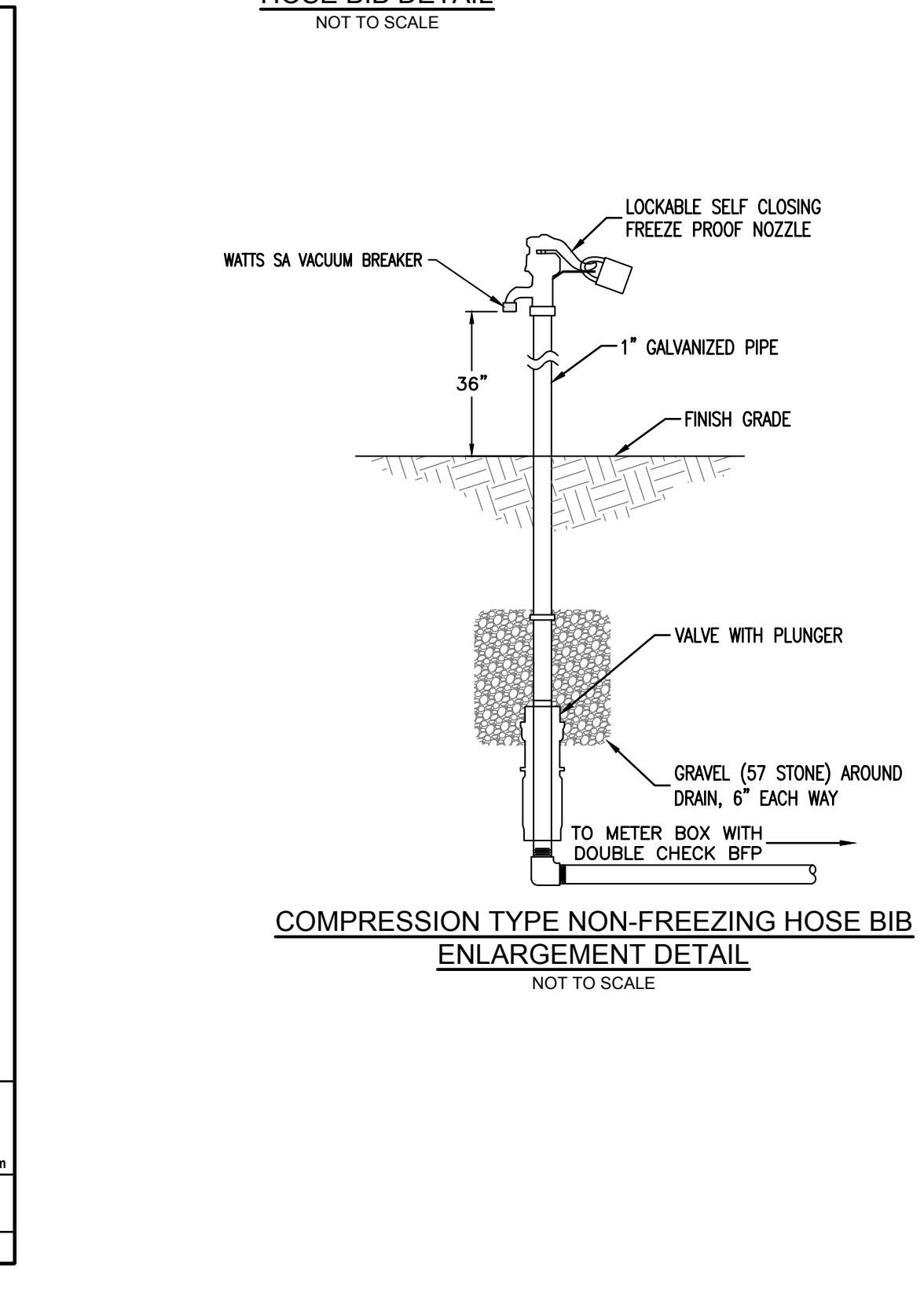
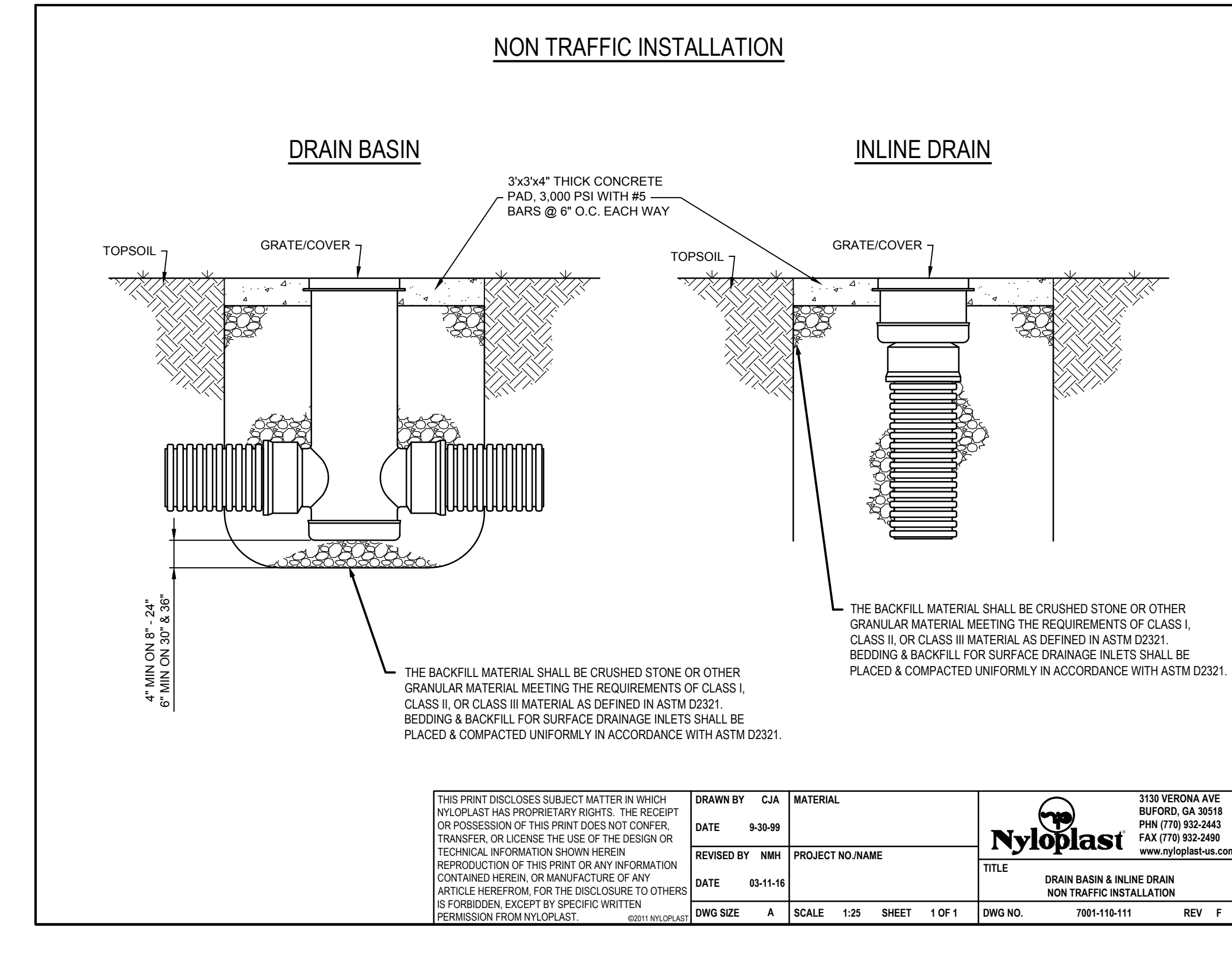


Figure 8-3  
Reduced Pressure Backflow Preventer Detail



PLAN	SECTION	TYPE C	TYPE D	TYPE E
		<p>Recommended Maximum Pipe Size: 2'-0" Wall - 18" Pipe 3'-1" Wall - 24" Pipe (18" where an 18" pipe enters a 2'-0" wall)</p>		
				<p>Recommended Maximum Pipe Size: 3'-0" Wall - 24" Pipe 4'-1" Wall - 36" Pipe</p>



LAST REVISION: 11/01/17	DESCRIPTION: FY 2020-21 STANDARD PLANS	INDEX: 425-052	SHEET: 1 of 7
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REV	DATE	BY	REVISIONS

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DESIGNED BY: CBF
DRAWN BY: JAH
REVIEWED BY: CBF
ISSUE DATE: FEBRUARY 2022
ACAD FILE NAME: 26018e1.dwg

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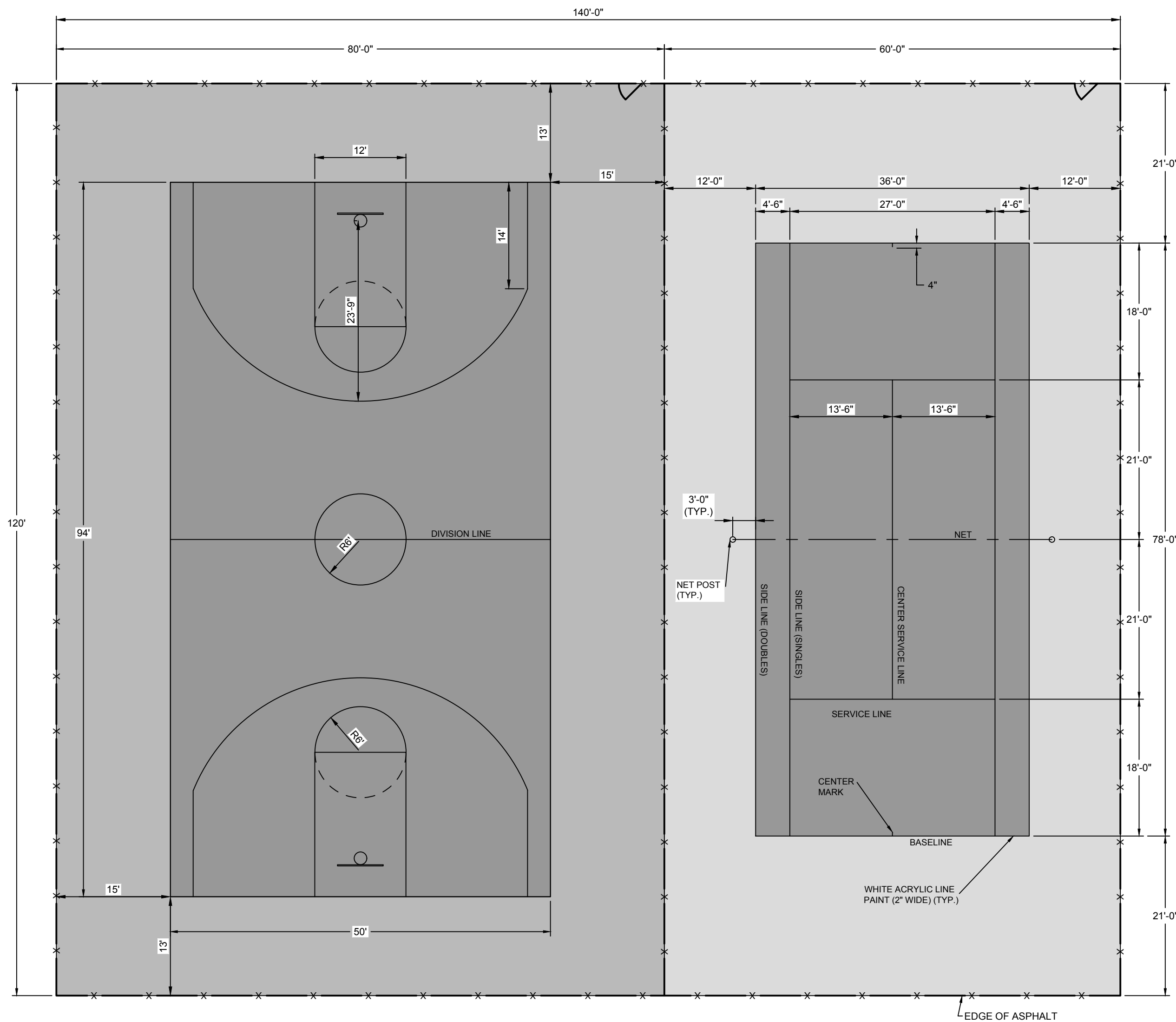
**CONSTRUCTION DETAILS**  
 GORE PARK IMPROVEMENTS  
 CALLAWAY, FLORIDA

James H. Slonina, P.E. 39197  
 Christopher B. Forehand, P.E. 58028  
 Stephen E. Price, P.E. 71646  
 J. Doug Crook, P.E. 66556

**CHRISTOPHER B. FOREHAND, P.E.**  
 LICENSE NO. 58028  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

SHEET NUMBER: D3  
 PROJECT NUMBER: 26018  
 DPR CERTIFICATION #EB-7806

26018 CONSTRUCTION DETAILS IMPROVEMENTS CONSTRUCTION DETAILS Sheet D3



**TENNIS COURT LEGEND**

- DARK GREEN (OR COLOR AS SELECTED BY OWNER) TWO TONE PLEXIPAVE BASE
- BRICK RED (OR COLOR AS SELECTED BY OWNER) TWO TONE PLEXIPAVE BASE

**NOTES:**

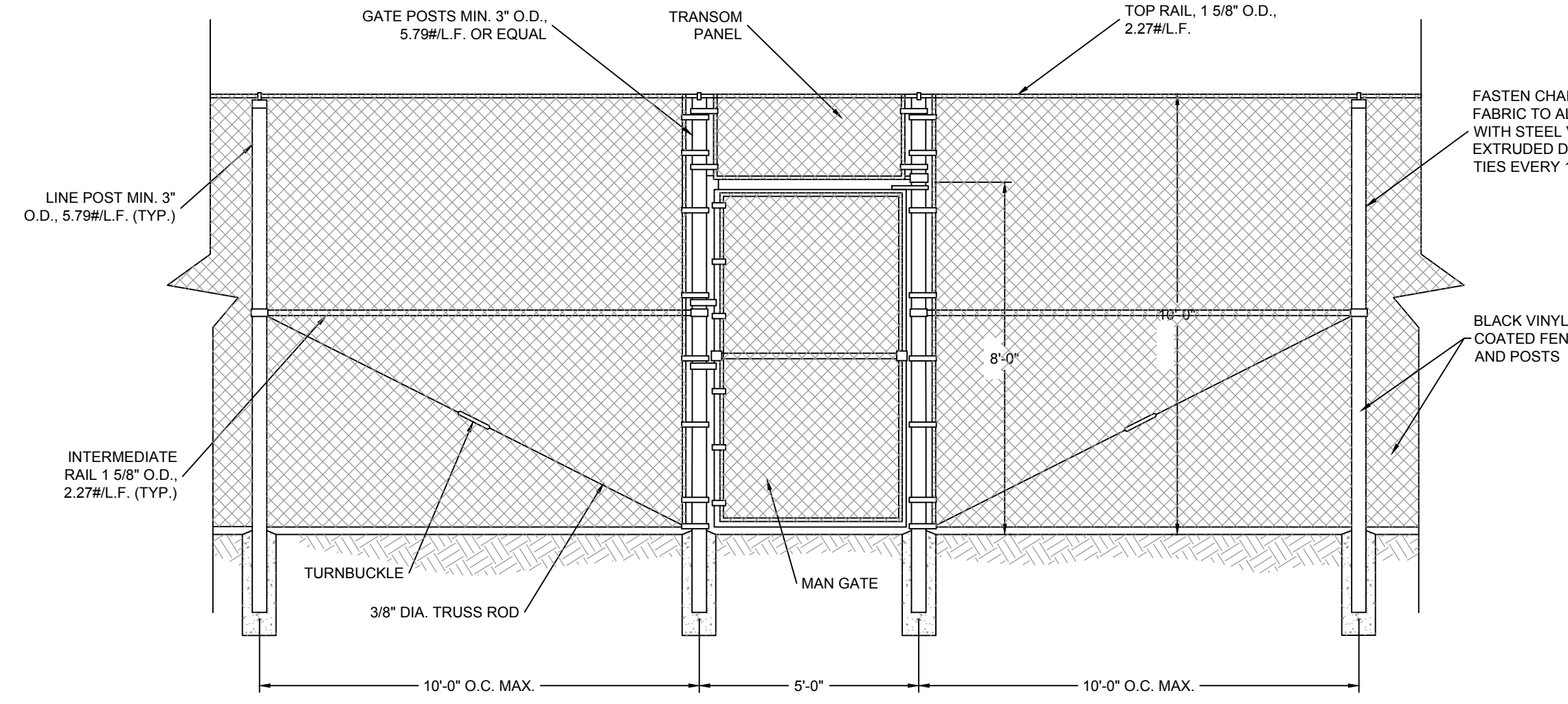
1. ALL MEASUREMENTS FOR COURT MARKINGS ARE TO THE OUTSIDE OF LINES EXCEPT FOR THOSE INVOLVING THE CENTER SERVICE LINE WHICH IS EQUALLY DIVIDED BETWEEN THE LEFT AND RIGHT SERVICE COURTS.
2. ALL COURT MARKINGS ON BOTH COURTS SHALL BE 2" WIDE.
3. CONTRACTOR SHALL HAVE A PRE-APPROVED GEOTECHNICAL TESTING LAB PERFORM 8 COMPACTION TESTS FOR BASE AND SUBGRADE FOR THE TENNIS COURTS. LOCATIONS WILL BE DETERMINED BY THE ENGINEER. (FOUR (4) FOR BASE AND FOUR (4) FOR SUBGRADE).

**TENNIS COURT AND BASKET BALL COURT DIMENSIONS & MARKINGS DETAIL**

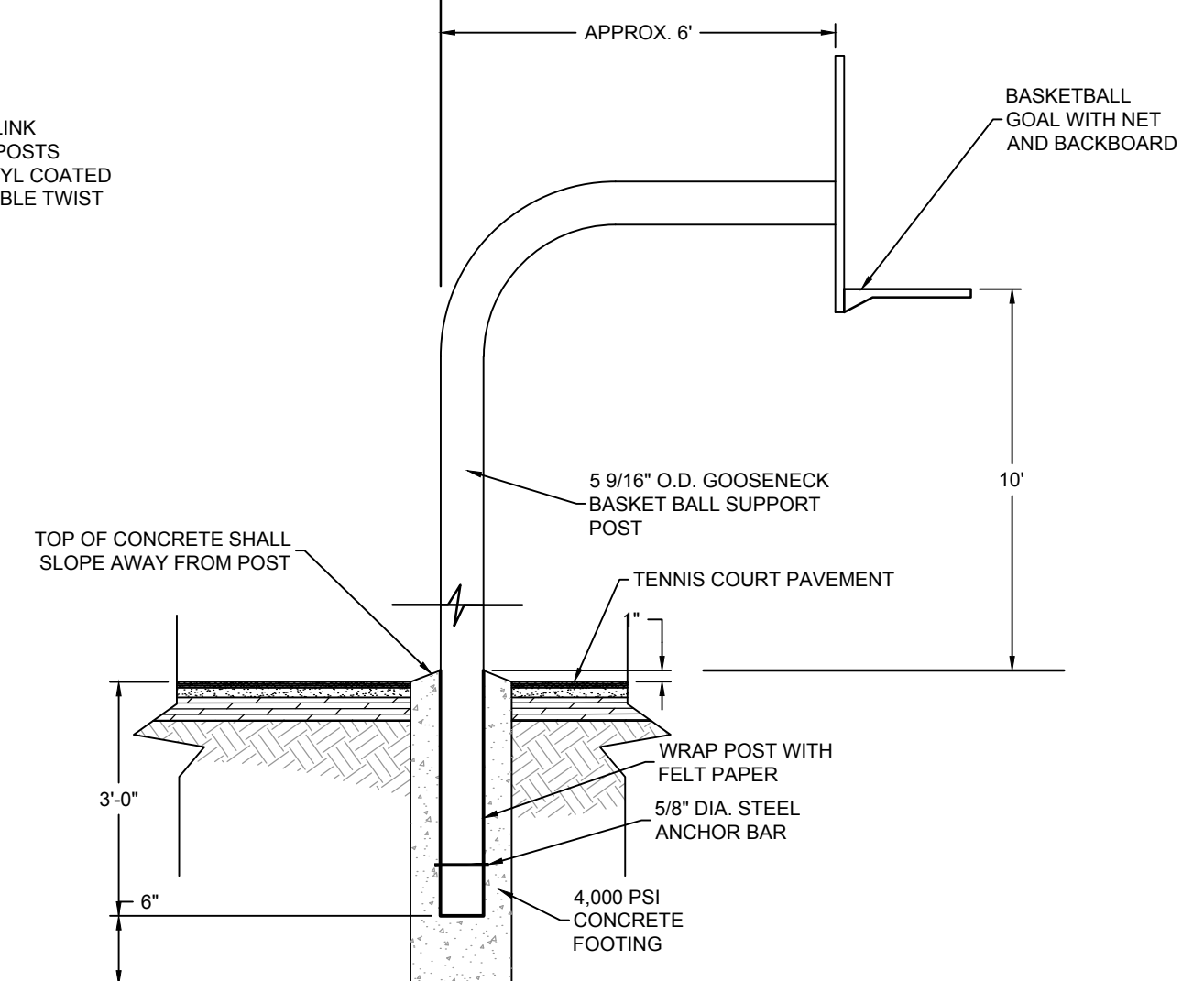
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**NOTES:**

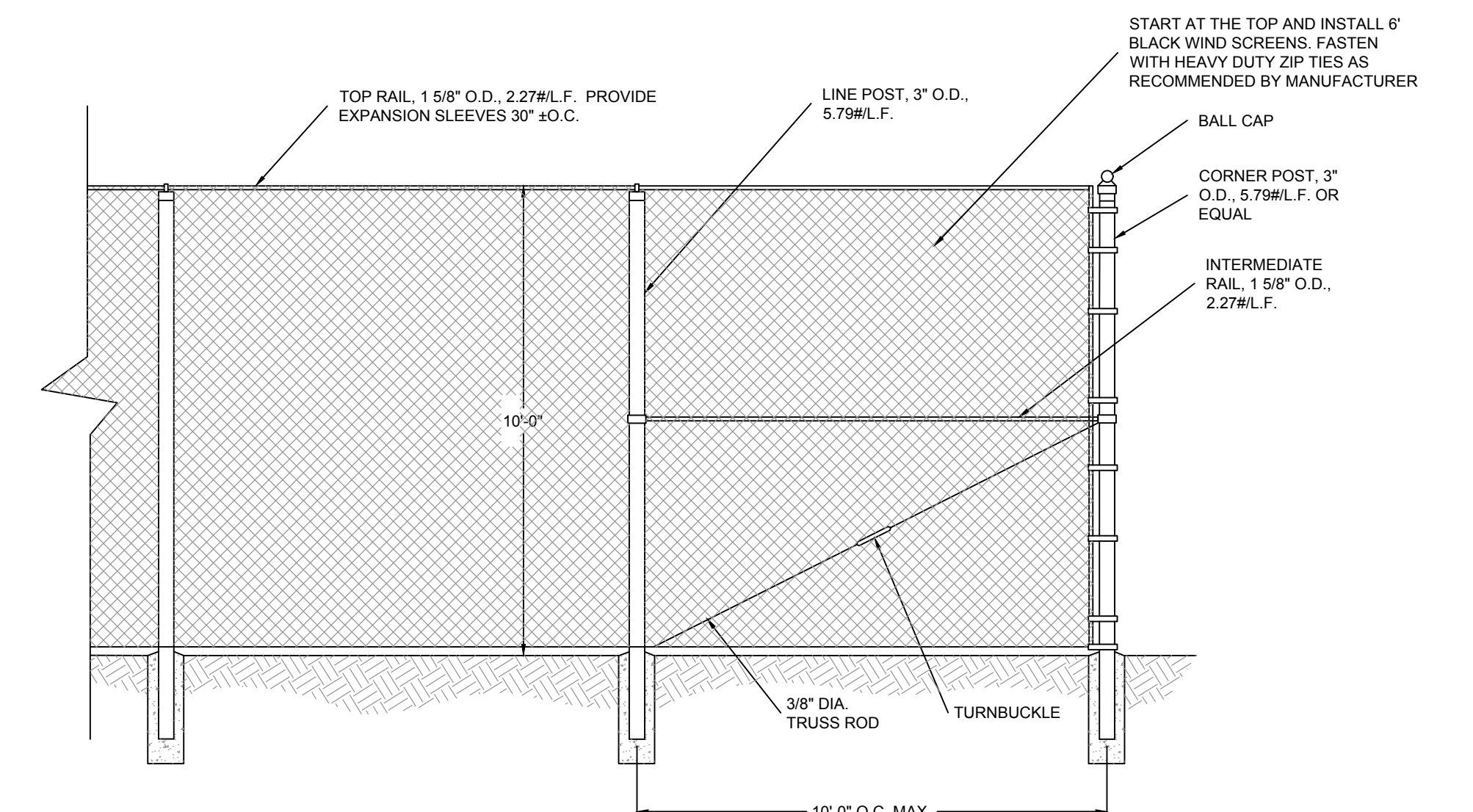
1. FENCE SHALL BE 10' HIGH, 11 GAUGE 1 3/4" MESH CHAIN LINK.
  2. FENCE POSTS SHALL BE A MINIMUM OF SCHEDULE 40 WEIGHT REGARDLESS OF CROSS SECTIONAL CONFIGURATION.
  3. FENCE SHALL BE CHAIN LINK WITH BLACK GALVANIZED VINYL COATING PER ASTM A392.
  4. REINFORCING TENSION WIRE IS TO HAVE A MINIMUM TENSILE STRENGTH OF 80,000 P.S.I.
  5. HOG RINGS OF .110" DIAMETER ALUMINUM WIRE SHALL BE USED TO ATTACH FENCE TO REINFORCING TENSION WIRE 2'-0" O.C.
  6. TIE WIRE OF .144" DIAMETER ALUMINUM ALLOY SHALL BE USED TO ATTACH FENCE TO TOP RAIL AND INTERMEDIATE POSTS AT 14" O.C.
  7. TENSION BARS OF 1/4" x 3/4" OR 3/16" x 3/4" GALVANIZED STEEL WOVEN THROUGH THE FENCE ARE TO BE FASTENED TO TERMINAL AND GATE POSTS WITH 11 GAUGE x 1" WIDE GALVANIZED STEEL BANDS AT 14" O.C.
  8. SELVAGE TOP AND BOTTOM IS TO BE KNUCKLED.
  9. ALL FERROUS METAL PARTS ARE TO BE HOT DIPPED GALVANIZED AFTER FABRICATION.
  10. CONCRETE FOOTINGS SHALL BE A MINIMUM 9" DIAMETER. CONCRETE SHALL CONFORM TO ASTM C94, MAXIMUM 3/4" AGGREGATE, MINIMUM 3,000 P.S.I. COMPRESSIVE STRENGTH (F'c) AT 28 DAYS.
  11. THE FENCE SHALL BE FASTENED TO THE COURT SIDE OF ALL POSTS AND RAILS.
  12. THE BOTTOM OF THE FENCE SHALL BE 1" ABOVE THE FINISHED COURT SURFACE.
  13. THE FENCE SHALL HAVE A 9' HIGH WINDSCREEN INSTALLED ON ALL NEW FENCE SECTIONS AND SHALL BE REMOVABLE.
- MATERIAL SPECIFICATIONS**  
 FABRIC: 100% LENO POLYPROPYLENE  
 WINDBREAK: OPEN MESH 75% CLOSED MESH 95%  
 WEIGHT PER SQUARE YARD: OPEN MESH 5.5-OZ. CLOSED MESH 7-OZ  
 TENSILE STRENGTH: 299 X 204  
 COLOR: BLACK
14. THE WINDSCREEN SHALL HAVE ANTI BLOW TABS AS WELL AS 6"x12" OPENINGS PLACED 5' TO 10' APART.
  15. AS A BID ALTERNATE THE CONTRACTOR SHALL PRICE THE OPTION OF BLACK VINYL COATED CHAIN LINK FENCE.



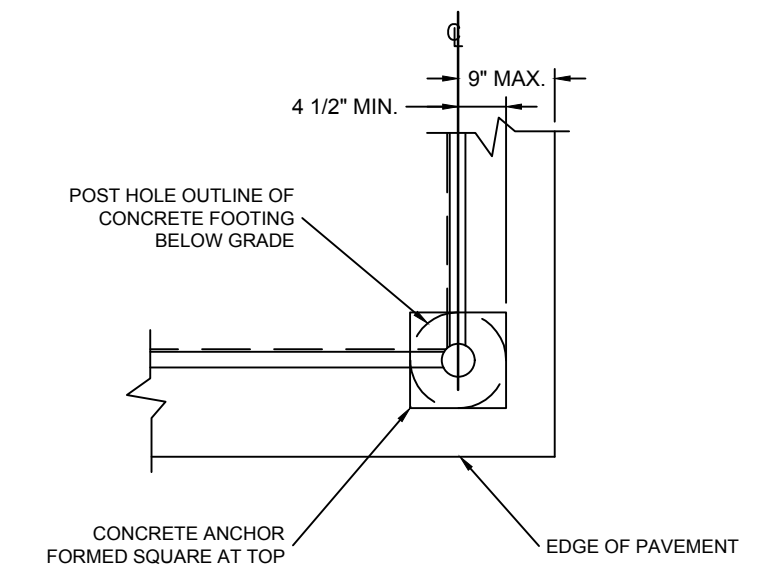
**TYPICAL GATE ELEVATION**  
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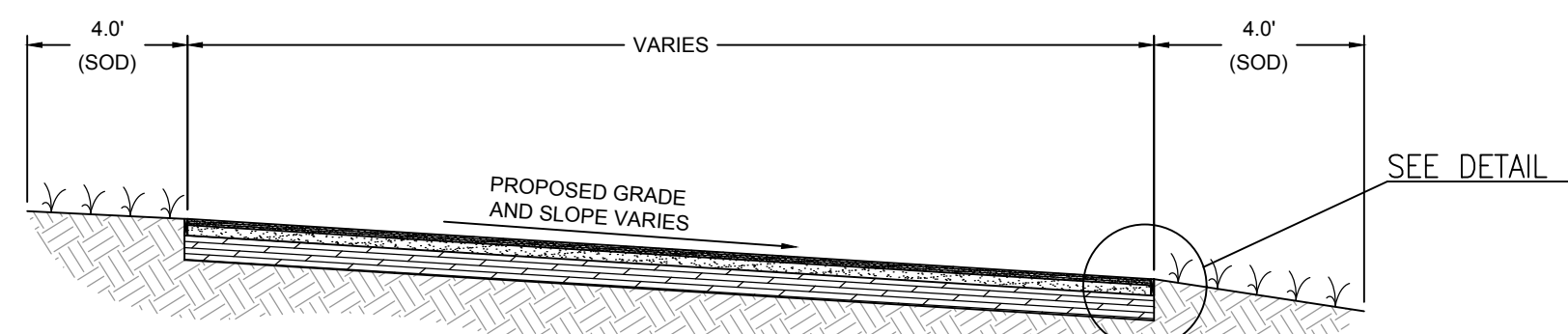
**BASKETBALL GOAL POST ASSEMBLY**  
NOT TO SCALE



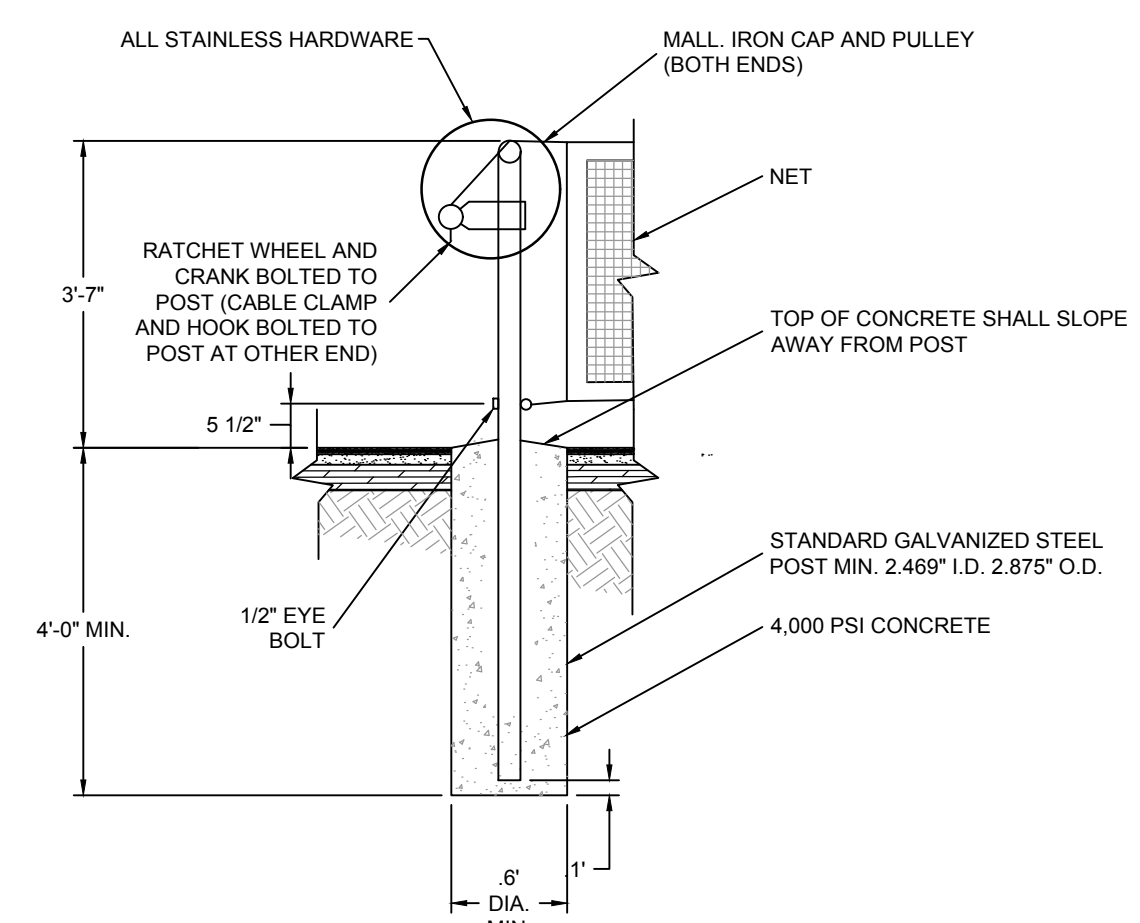
**TYPICAL FENCE ELEVATION**  
NOT TO SCALE



**CORNER POST DETAIL**  
NOT TO SCALE

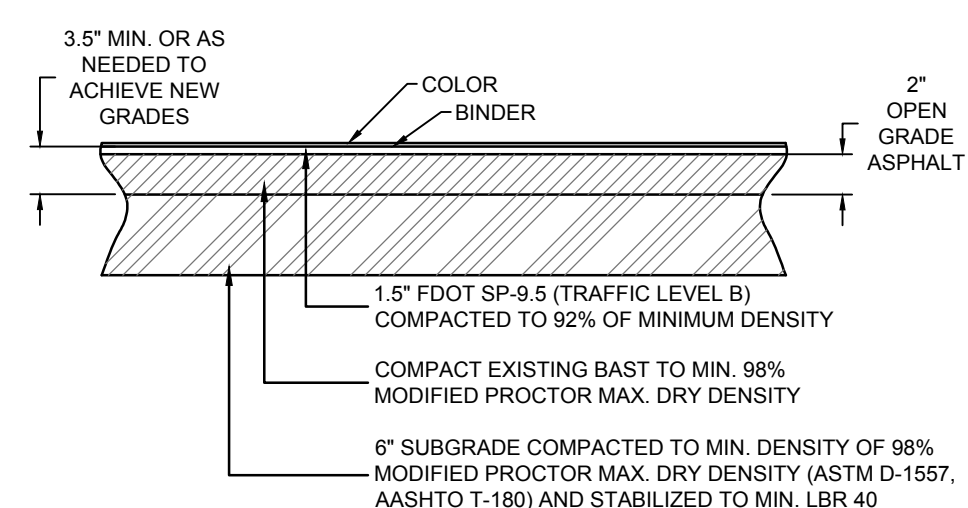


**TYPICAL COURT SECTION**  
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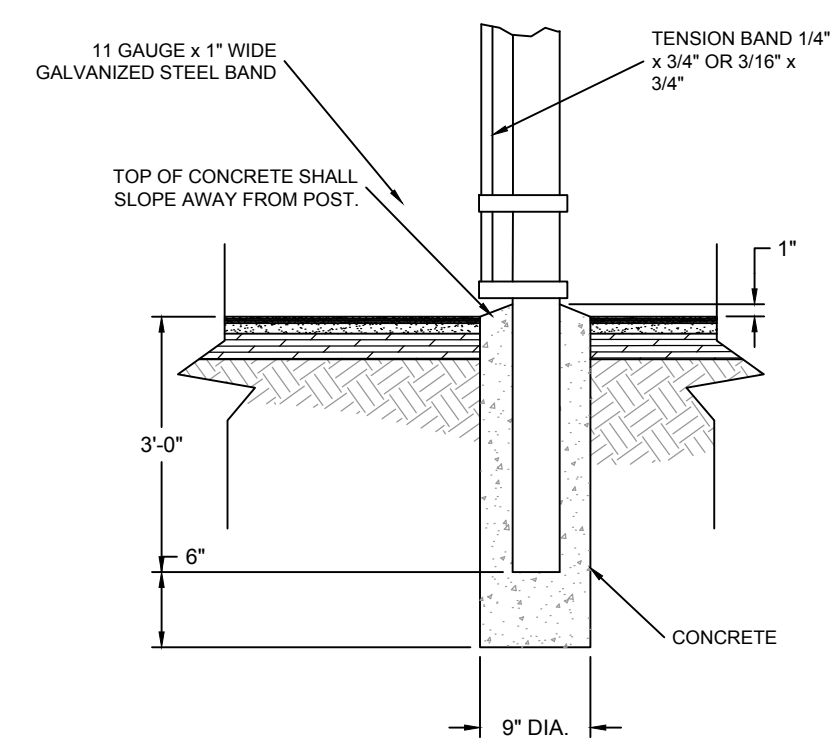


- NOTES:**
1. TENNIS NET SHALL BE AMERICAN PRO TENNIS CO. STOCK NO. 50-1200 OR EQUAL.
  2. HARDWARE SHALL BE STAINLESS STEEL 304.

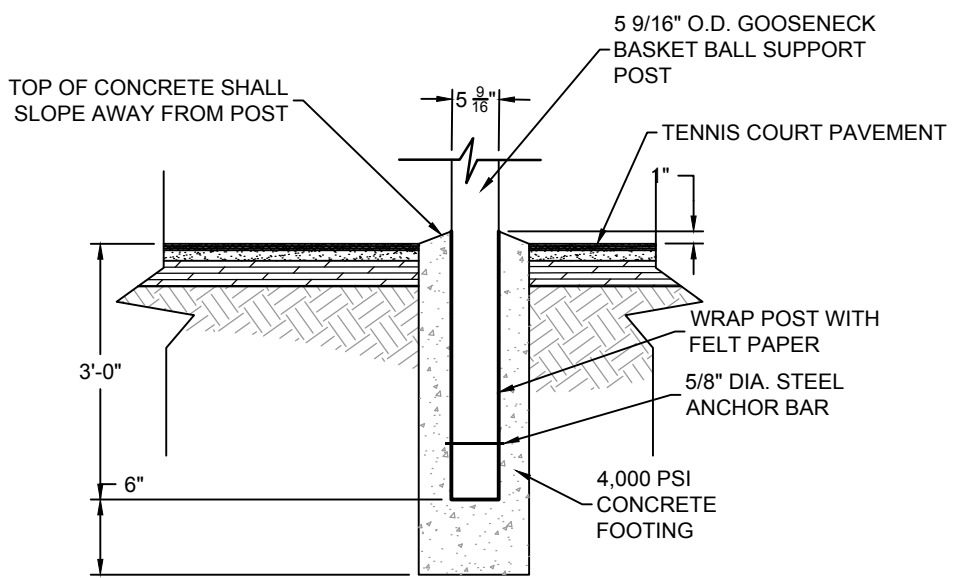
**TENNIS NET POST FOOTING DETAIL**  
NOT TO SCALE



**DETAIL B**  
NOT TO SCALE



**TYPICAL FENCE POST SECTION**  
NOT TO SCALE



**BASKETBALL GOAL POST FOOTING**  
NOT TO SCALE

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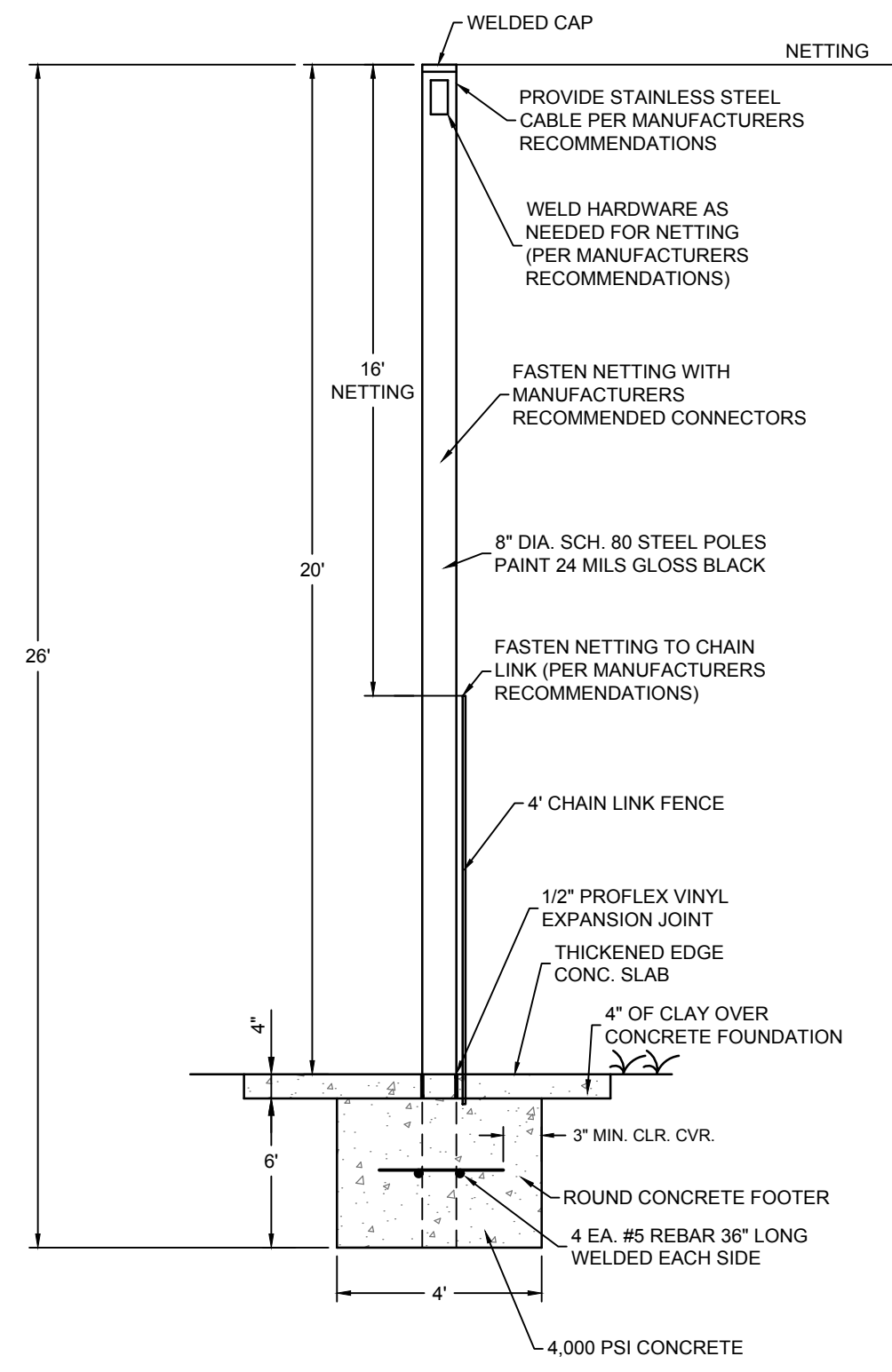
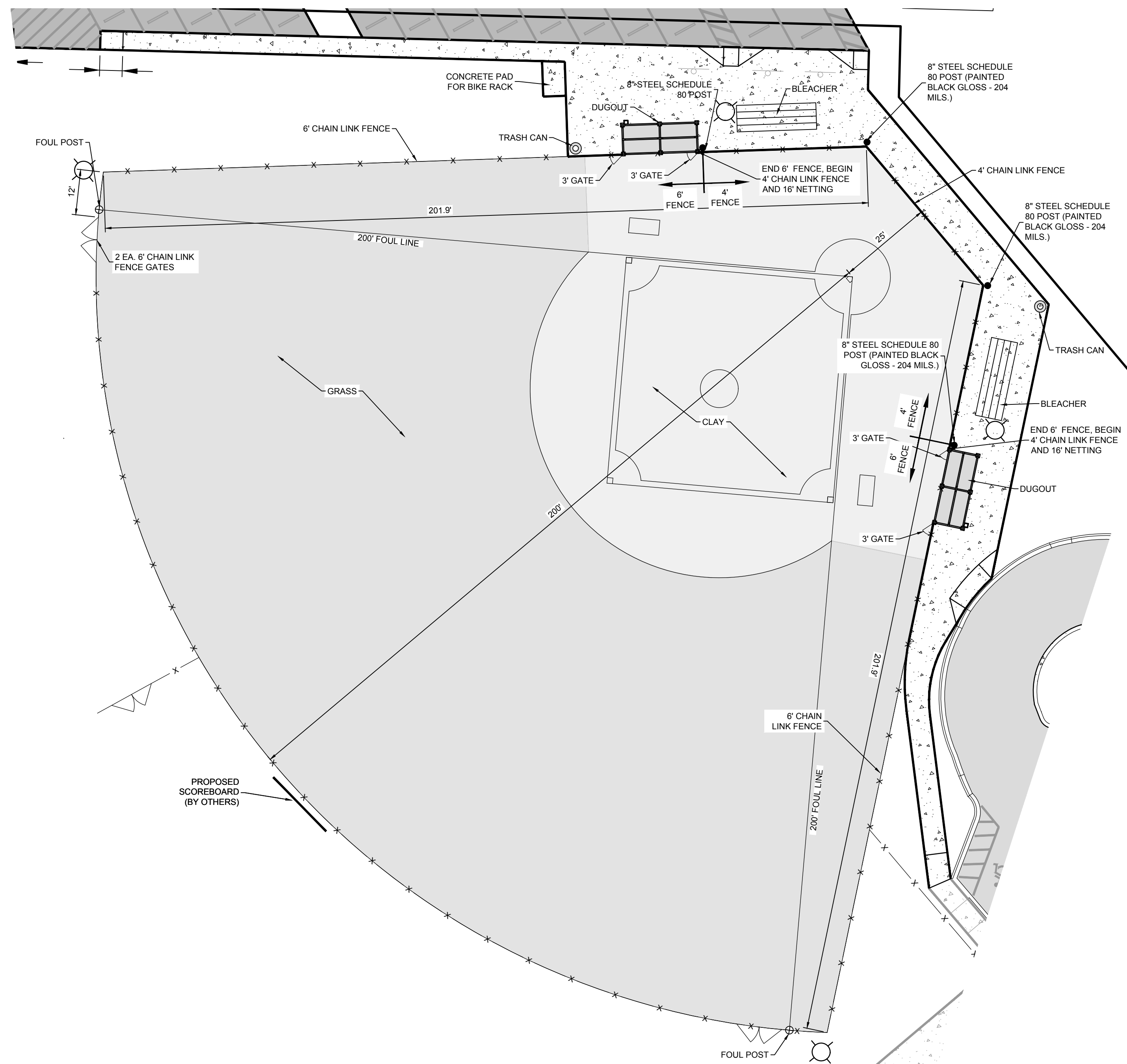
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**TENNIS COURT DETAILS**  
 GORE PARK IMPROVEMENTS  
 CALLAWAY, FLORIDA

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**CHRISTOPHER B. FORTHARD & ASSOCIATES, L.P.**  
 NO. 58028  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

SHEET NUMBER	D4
PROJECT NUMBER	26018



**Turfgrass Tech Sheet**  
**TifTuf™ Bermudagrass**  
*Cynodon dactylon* (L.) Pers. × *Cynodon transvaalensis* Burt Davy



**Description:** TifTuf was selected for its drought tolerance and ability to maintain turf quality under drought stress. In our own experience we believe that once TifTuf is established, it will not need irrigation, even during moderate drought. University drought tests have TifTuf consistently ranked as the highest in quality and appearance over time compared to all other Bermudagrasses. See [www.supersod.com/bermuda-sod/tiftuf-bermuda.html](http://www.supersod.com/bermuda-sod/tiftuf-bermuda.html) for pictures and charts illustrating the studies.

**Insect Tolerance:** TifTuf is susceptible to the typical Bermudagrass insects, but recovers well with proper insect control.

**Disease Resistance:** Diseases are a minor problem with TifTuf when fertility is managed correctly. We recommend annual spring compost topdressing with our Soil3 organic compost to minimize disease impact (more info at [soil3.com](http://soil3.com)) and help control that.

**Traffic & Wear Tolerance:** TifTuf withstands wear and tear from "traffic" better than any other Bermudas, making it the best choice for high impact activities such as football, soccer, baseball, and golf. Because of its rapid growth rate, when managed properly, recovery is normally faster than other warm season grasses with the same amount of wear.

**Uses:** Due to its drought tolerance, TifTuf is replacing Tifway (419) as the new standard turfgrass in residential and commercial landscapes as well as other high use areas like parks and sports fields.

**Adaptability:** TifTuf is adaptable throughout typical Bermudagrass ranges in the Deep South, but displays greater cold tolerance than other types. In NTEP trials in Haysville, KS, in 2013-2014 TifTuf was recorded with over 90% survivability at -6°F outperforming Tifway and Celebration in the trials.

**Adaptability Zones:** One full zone harder than other Bermudagrasses into Zone 6b. Range is from Zone 6b to 11a on the 2012 USDA Plant Hardiness Zone Map or Zones 1-3 on the Turfgrass Hardiness Map.

**Dormancy:** TifTuf goes dormant for the winter, but it offers excellent spring green up and green color retention into fall. Superior over Tifway for both these attributes.

**Shade Tolerance:** TifTuf thrives in full sun to partial shade. It is more shade tolerant than Tifway.

**Drought Tolerance & Water Management:** While other Bermudas survive drought conditions by going dormant and greening up at the first exposure to moisture, TifTuf stays green without going dormant under drought stress. In UGA tests it uses 38% less water than Tifway while maintaining better turf quality. Optimum water management, as with any grass, is dependent on soil physical characteristics and climate. While the watering rule-of-thumb for every other grass type is to provide 1" of water per week, in our southeastern climate TifTuf simply doesn't need to be irrigated when grown in good soils once its roots are established.

**Weed Tolerance:** A well-maintained, vigorous TifTuf lawn with good turf density will inhibit weed establishment, but to be sure, use of a pre-emergent herbicide (specified for use on Bermuda lawns on the label) is recommended in the spring and fall. TifTuf is tolerant to most herbicides, but carefully read and follow all herbicide product labels.

**Fertility:** Apply between 3 and 6 pounds of nitrogen per 1,000 square feet annually, during the growing season. Select a fertilizer that is labeled for use on Bermudagrass lawns. Too much fertility will result in a thatchy and unhealthy lawn. Always fertilize based on a soil test. Don't use high nitrogen "winterizers" in the fall.

**Compost topdressing with Soil3 and aerating in the spring, after spring green up, can supply one of TifTuf's fertilizer applications for the year. The practice of compost topdressing with Soil3 is true organic lawn care.**

**Soil pH:** Bermuda thrives on a neutral to alkaline soil with a pH range of 6 to 7. Do not apply lime to Bermuda without a soil test.

**Mowing Height:** Maintain cutting height of 0.5-2 inches. Mowing may be required on a 4 to 7 day interval. Mow no more than 1/3 of the leaf off at one mowing. Use sharp mower blades. Can be mowed with rotary mowers or use our Allett reel mowers for a cleaner cut.

**Establishment:** TifTuf boasts aggressive establishment from sod during the growing season, yet TifTuf sod can be laid all year long, even when dormant. Complete sod establishment instructions are on our website. Because TifTuf is a sterile hybrid it is not available from seed.

**Quality:** TifTuf is only available as blue tag certified. The unauthorized/unlicensed commercial propagation or transfer of this product to third parties for such propagation is prohibited by the patent owner. Patten Seed Company/SuperSod is a Licensed Grower of TifTuf in Georgia, North Carolina and South Carolina and markets certified TifTuf in the Eastern US.

For more info and pictures, visit [supersod.com](http://supersod.com)

NOTE:  
THE TIFTUF SOD SHALL BE SUPPLIED BY MCCALL SOD FARM, OR APPROVED EQUAL.

**Specifications Sheet**

Netting Professionals, LLC

Premium #24 Nylon Backstop Netting

**MATERIALS**

- A. Backstop Net:
  - 1. 3/4" square mesh netting that complies with:
    - a. Yarn / Thread Type: 100% DuPont™ Twisted Knotted nylon
    - b. Factory Procedure: Black UV Bond
    - c. Weight: 0.03 lbs per square foot
    - d. Twine size: #24
    - e. Minimum Break Strength: 275 lbs
    - f. Weather Treatment: Secondary UV DURA-DIP Paint Treatment
    - g. Lacing Cord: #84 braided black UV resistant Nylon cord 800 lb tensile
    - h. Rope edging: 3/8" black High Tenacity Polypropylene HTPP
    - i. Wind Passage / 89% open mesh
- B. Cable and connection hardware:
  - a. Main cable and vertical cables: 1/4" stainless steel 7 X 19 construction aircraft
  - b. Min. 3 cable clamps per connection - malleable wire rope clamps 1/4" stainless steel
  - c. Turnbuckles, shackles, eyebolts: All stainless steel

Netting Professionals, LLC - [www.nettingpros.com](http://www.nettingpros.com) - [elli@nettingpros.com](mailto:elli@nettingpros.com)  
PO Box 17183, Fernandina Beach, FL 32035 - (904) 805-2233



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**AA FIELD DETAIL AND NETTING PLAN AND DETAILS**  
**GORE PARK IMPROVEMENTS**  
**CALLAWAY, FLORIDA**

James H. Slonina, P.E. 39197  
Christopher B. Forehand, P.E. 58028  
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NO. 58028  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

DPR CERTIFICATION #EB-7806

SHEET NUMBER	D5
PROJECT NUMBER	26018

26018 AA FIELD DETAIL AND NETTING PLAN AND DETAILS IMPROVEMENTS AA FIELD DETAIL AND NETTING PLAN AND DETAILS Sheet D5

# MASTER DRAWINGS FOR: NEW DUGOUTS

INDEX OF DRAWINGS	
01	GENERAL INFORMATION
02	GENERAL NOTES & SCHEDULES
03	GENERAL NOTES & SCHEDULES (NORTHERN CLIMATE)
A100	ARCHITECTURAL PLANS
A101	ARCHITECTURAL PLAN ELEVATION
A102	ALTERNATE SLAB PLAN VIEW AND SECTION

FASTENERS SCHEDULE			
BOLT SIZE	LENGTH	QUANTITY	REMARKS
1/2"	6-1/2"	YES	STEEL PLATE TO CONCRETE FOOTING
1"	2"	YES	BEAM TO COLUMN

COMPONENT SCHEDULE - FOR BAY SPACING UP TO 12'-6"			
ITEM	THICKNESS	SIZE	REMARKS
COL. 1	1/8"	4" x 4"	11'-0"
COL. 2	1/8"	4" x 4"	11'-0"
BM-1	1/8"	4" x 4"	12'-6"
BM-2	1/8"	4" x 4"	12'-6"
BM-3	1/8"	4" x 4"	10'-0"
BM-4	1/8"	4" x 4"	9'-0"
BM-5	3/16"	4" x 4"	10'-0"
BASE PLATE	1/2"	12" x 12"	N/A

COMPONENT SCHEDULE - FOR BAY SPACING UP TO 13'-6"			
ITEM	THICKNESS	SIZE	REMARKS
COL. 1	3/16"	4" x 4"	11'-0"
COL. 2	3/16"	4" x 4"	11'-0"
BM-1	3/16"	4" x 4"	13'-6"
BM-2	3/16"	4" x 4"	13'-6"
BM-3	3/16"	4" x 4"	10'-4"
BM-4	3/16"	4" x 4"	9'-8"
BM-5	1/4"	4" x 4"	10'-4"
BASE PLATE	1/2"	12" x 12"	N/A

COMPONENT SCHEDULE - FOR BAY SPACING UP TO 14'-6"			
ITEM	THICKNESS	SIZE	REMARKS
COL. 1	1/4"	4" x 4"	11'-0"
COL. 2	1/4"	4" x 4"	14'-6"
BM-1	1/4"	4" x 4"	14'-6"
BM-2	1/4"	4" x 4"	10'-0"
BM-3	1/4"	4" x 4"	10'-0"
BM-4	1/4"	4" x 4"	10'-0"
BASE PLATE	1/2"	12" x 12"	N/A

COMPONENT SCHEDULE - FOR BAY SPACING UP TO 13'-6"			
ITEM	THICKNESS	SIZE	REMARKS
CONCRETE FOOTING (F)	24"	28" x 28"	N/A
CONCRETE FOOTING (F)	24"	40" x 40"	N/A
CONCRETE FOOTING (F)	20"	36" DIA.	N/A
CONCRETE FOOTING (F)	40"	36" DIA.	N/A
CONCRETE FOOTING (F)	22"	28" x 28"	N/A
CONCRETE FOOTING (F)	22"	40" x 40"	N/A
CONCRETE FOOTING (F)	16"	36" DIA.	N/A
CONCRETE FOOTING (F)	36"	36" DIA.	N/A

### DESIGN PARAMETERS:

**APPLICABLE CODES:**  
 BUILDING CODES = FLORIDA BUILDING CODE 2017 6TH EDITION  
 BUILDING CONSTRUCTION TYPE (FBC 2017 6TH EDITION CHAPTER 6) TYPE I-B (UNPROTECTED & UNSPRINKLED)  
 BUILDING OCCUPANCY CLASSIFICATION: GROUP I - UTILITY - ACCESSORY BUILDING  
 RISK CATEGORY (FBC 2017 6TH EDITION - TABLE 1604.5)-RISK CATEGORY I  
 ROOF LIVE LOAD: 20 PSF  
 BASIC WIND SPEED: UP TO 156 MPH FOR RISK CATEGORY I PER FBC 2017 SIXTH EDITION  
 EXPOSURE CATEGORY: C  
 ENCLOSURE CLASSIFICATION: OPEN  
 FOUNDATION HAS BEEN DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF A MIN. OF 3,000 PSF PER SQUARE FOOT IN ACCORDANCE WITH PRESUMPTIVE LOAD BEARING VALUES.

**STRUCTURAL DESIGN PARAMETERS**  
 FLOOR DESIGN - CONCRETE SLAB ON GRADE (OPTIONAL)  
 LIVE LOAD: 20 PSF  
 DEAD LOAD: SELF WT.  
 ROOF DEFLECTION: L/240 LIVE LOAD  
 L/180 TOTAL LOAD

**ROOF FASTENERS:**  
 ZONE 1 #12 x 7/8" -4" O/C METAL SCREWS  
 ZONE 2 #12 x 7/8" -4" O/C METAL SCREWS  
 ZONE 3 #12 x 7/8" -4" O/C METAL SCREWS

**TYPICAL FLAT ROOF FASTENING LAYOUT**  
 NOTE: SEE DETAILS FOR ATTACHMENT OF EACH SHIP WELDED BEAM CONNECTION.

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 DRAWN BY: JAH  
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DUGOUT AND PLAYERS BENCH DETAILS  
 GORE PARK IMPROVEMENTS  
 CALLAWAY, FLORIDA

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**Jaypro Sports**  
 976 Hartford Turnpike  
 Waterford, CT 06385 USA  
 (800) 243-0533  
 (800) 988-3363 Fax  
 www.jaypro.com

MODEL NO.: PB-20SM  
 PRODUCT NAME: 15' PLAYERS BENCH WITH BACK REST  
 DRAWN BY: JAC EFFECTIVE DATE: 5-1-03

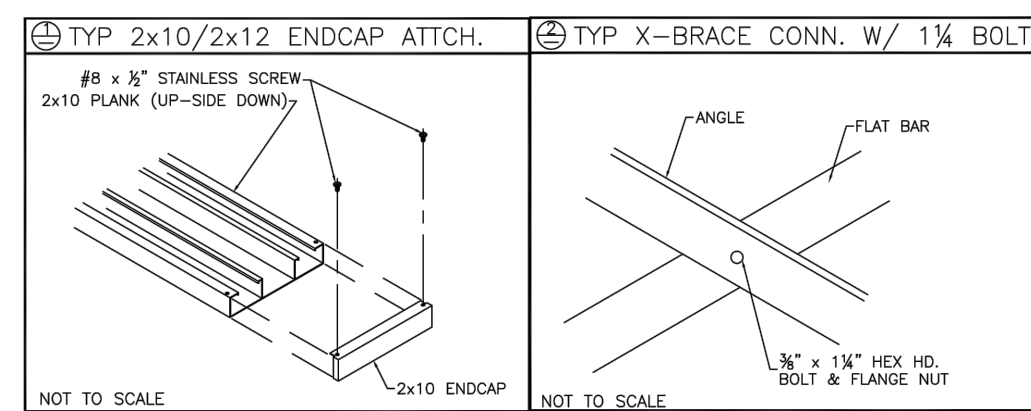
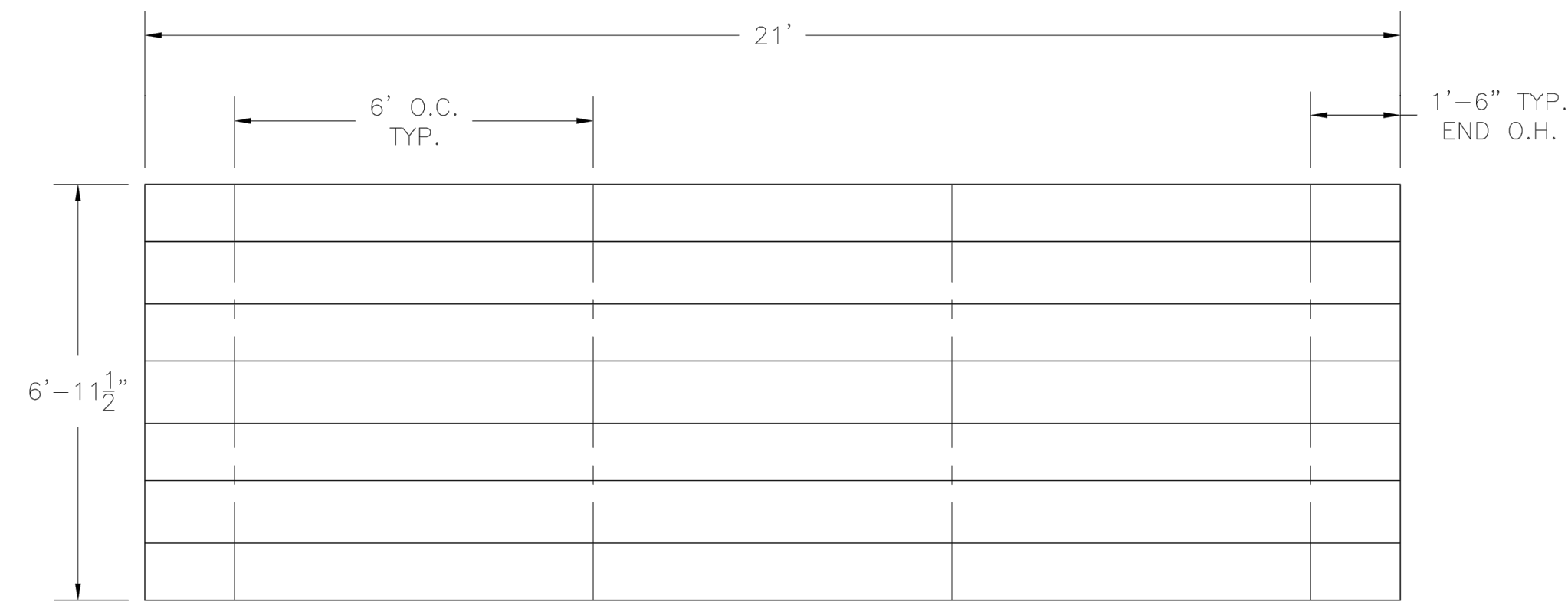
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 NO. 58028

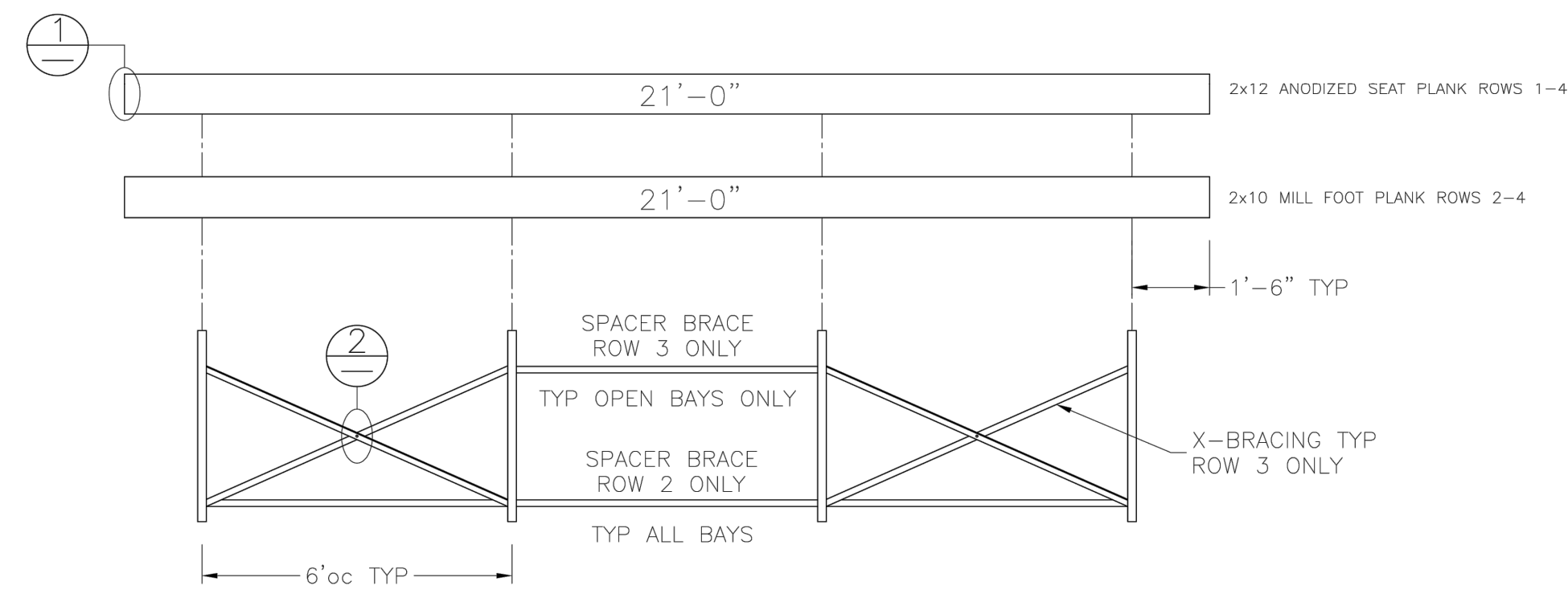
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 PROJECT NUMBER 26018

DATE: Wednesday, February 2, 2022 10:57:31 AM BY: Jan Viehland File: P:\26018 Gore Park Callaway\1\_Civil\3DF\DetailDrawings\26018e1.dwg

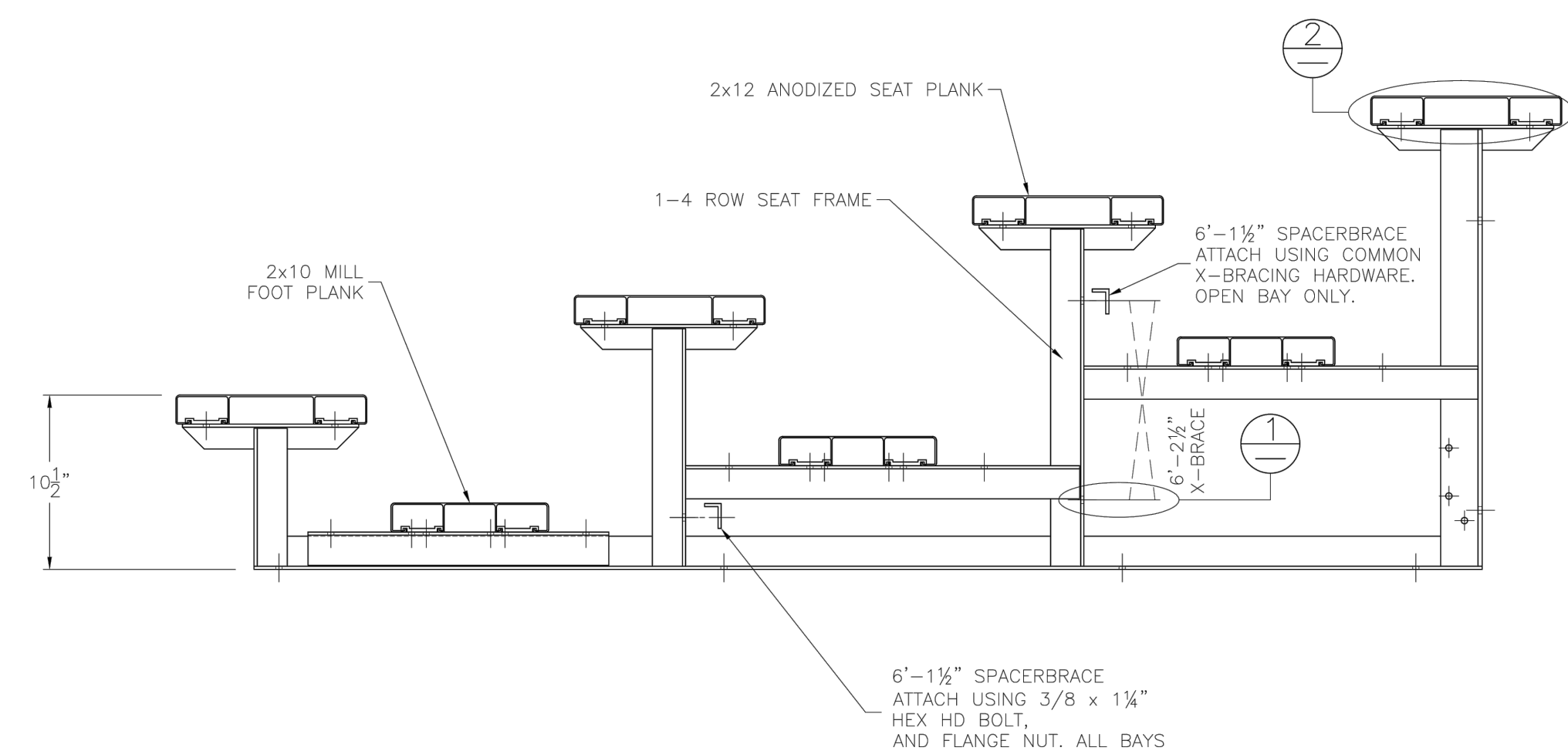
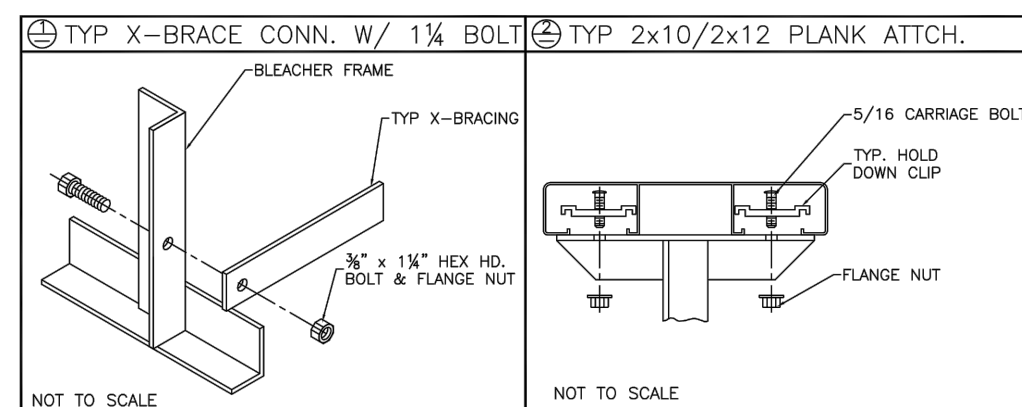
26018 GORE PARK IMPROVEMENTS DUGOUT AND PLAYERS BENCH DETAILS Sheet D6



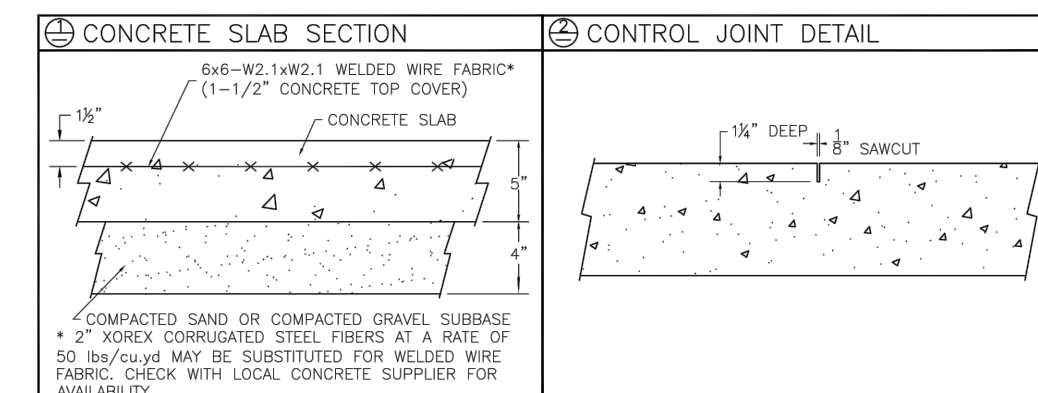
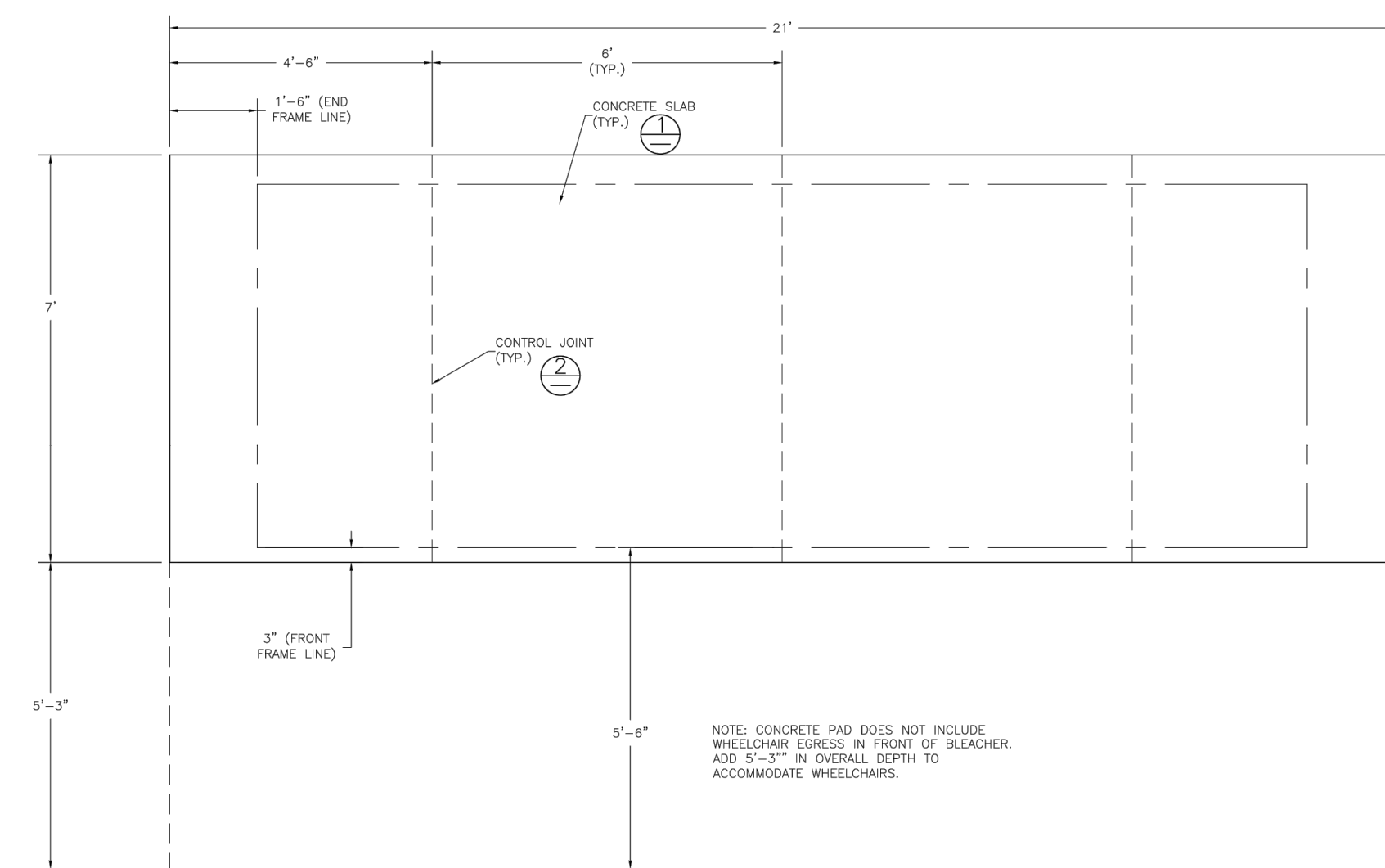
**PLANK PLAN**



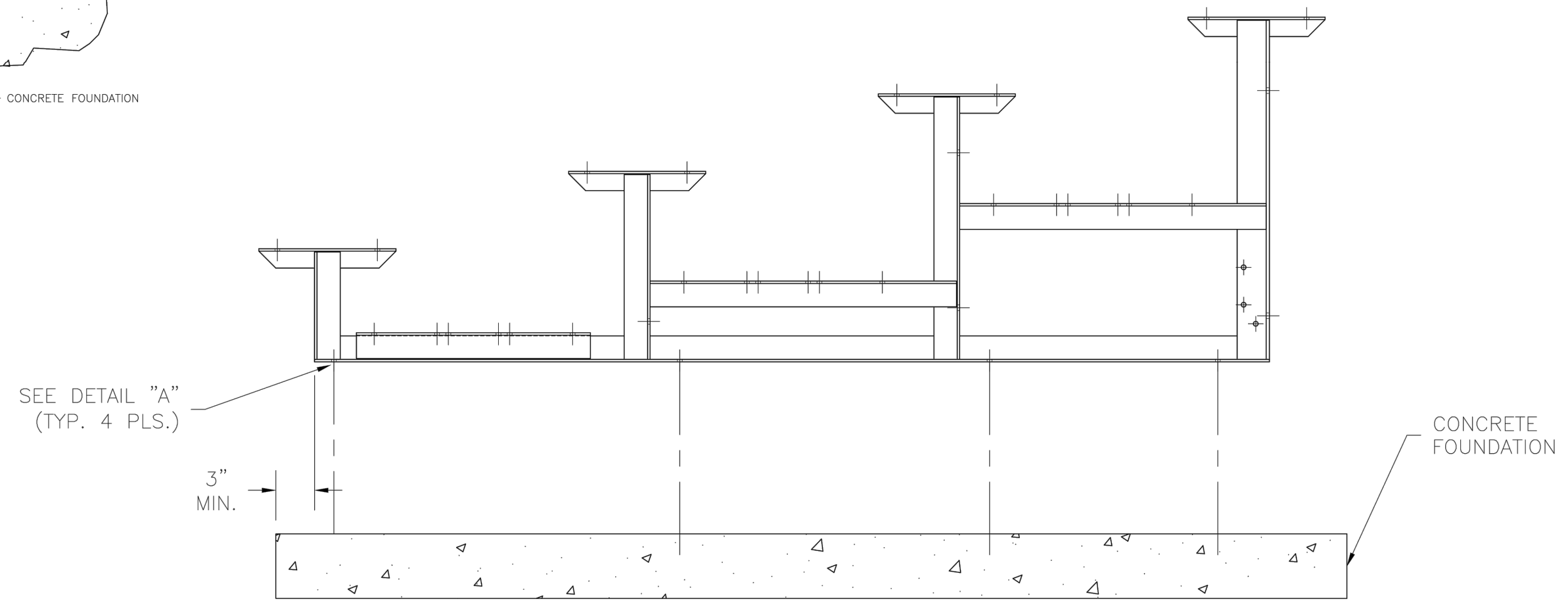
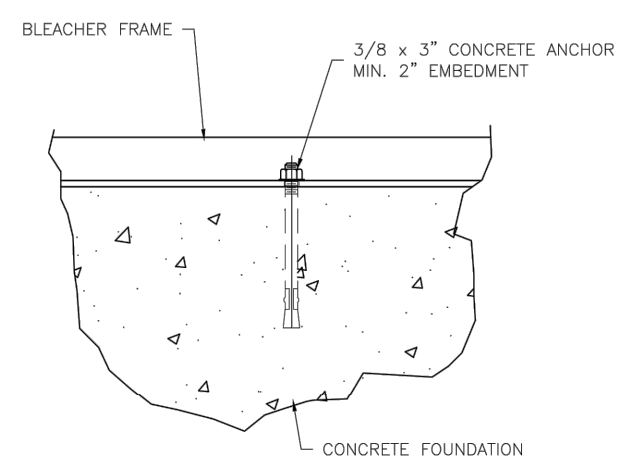
**FRAMING PLAN**



**CONCRETE FOUNDATION SPECIFICATIONS**  
**SCOPE:**  
 Foundation construction is not part of National Recreation Systems, Inc.'s (NRS) scope of work unless noted otherwise in the contract documents. The owner shall review the foundation design with the local code authority, and coordinate with NRS.  
**FOUNDATION DESIGN & ANCHORS:**  
 1) The foundation designs are based on the following:  
 a. Minimum presumed soil bearing 1000 psf.  
 b. Bleacher frame dead and live load 700 lbs./ft.  
 c. Bleacher frame wind uplift load 250 lbs./ft.  
 2) Unless otherwise noted on the drawings the bleacher frames shall be attached to the concrete with 3/8" dia. x 3" wedge type expansion anchors. The anchors shall be embedded a minimum of 2" into the concrete.  
**CONCRETE SPECIFICATIONS:**  
 1) All concrete construction shall be in accordance with ACI 318-08.  
 2) All concrete shall have a minimum 28-day strength of Fc=5000 psi.  
 3) A 1/4" minimum expansion joint material shall be placed between strip and slab foundations when adjacent to each other.  
 4) The depression in the top of the foundation between high spots shall not exceed 5/16" below a 10-foot long straightedge. The 10-foot straightedge method used to measure foundation flatness shall be in accordance with Section of ACI 302.1R-04 "Guide for Concrete Floor and Slab Construction".  
**CONCRETE SLAB SPECIFICATIONS:**  
 1) Concrete slab shall have a minimum thickness of 5" NRS, Inc. recommends, and some areas may require 6" thickness and placed on 4" of compacted gravel or compacted sand sub-base.  
 2) NRS, Inc. recommends that the concrete slab be reinforced with #6-W2.1 welded wire fabric at 12" concrete cover from the top. In lieu of welded wire fabric, 2" XOREX by Ribbon Technology Corporation or equal corrugated steel fibers applied at a rate of 50 lbs./cu.yd. may be used. Nylon or polypropylene fiber are not recommended.  
 3) Check control joints shall be saved into slab to form approximate square pattern. The maximum spacing for control joints shall not exceed 12' 6", unless shown otherwise on this drawing. The bleacher frames shall not be set on control joints. The designer shall contact NRS to coordinate joint spacing requirements with the specific bleacher design.  
 4) The slab may be sloped a maximum of 1/8 inch per foot for drainage. The maximum overall out of level slope for the slab perpendicular to the seats (front to rear) shall not exceed 2" and parallel to the seats (end to end) shall not exceed 4".



**DETAIL "A" - CONC. ANCHOR ATTACHMENT**



Date: Wednesday, February 2, 2022 10:57:40 AM ID: Jim Haskland File: P:\2021E Gore Park Callaway\1 Civil\3DF\Bleacher\Drawings\26018e1.dwg

REV	DATE	BY	REVISIONS

SCALE:	AS NOTED
DESIGNED BY:	CBF
DRAWN BY:	JAH
REVIEWED BY:	CBF
ISSUE DATE:	FEBRUARY 2022
ACAD FILE NAME:	26018e1.dwg

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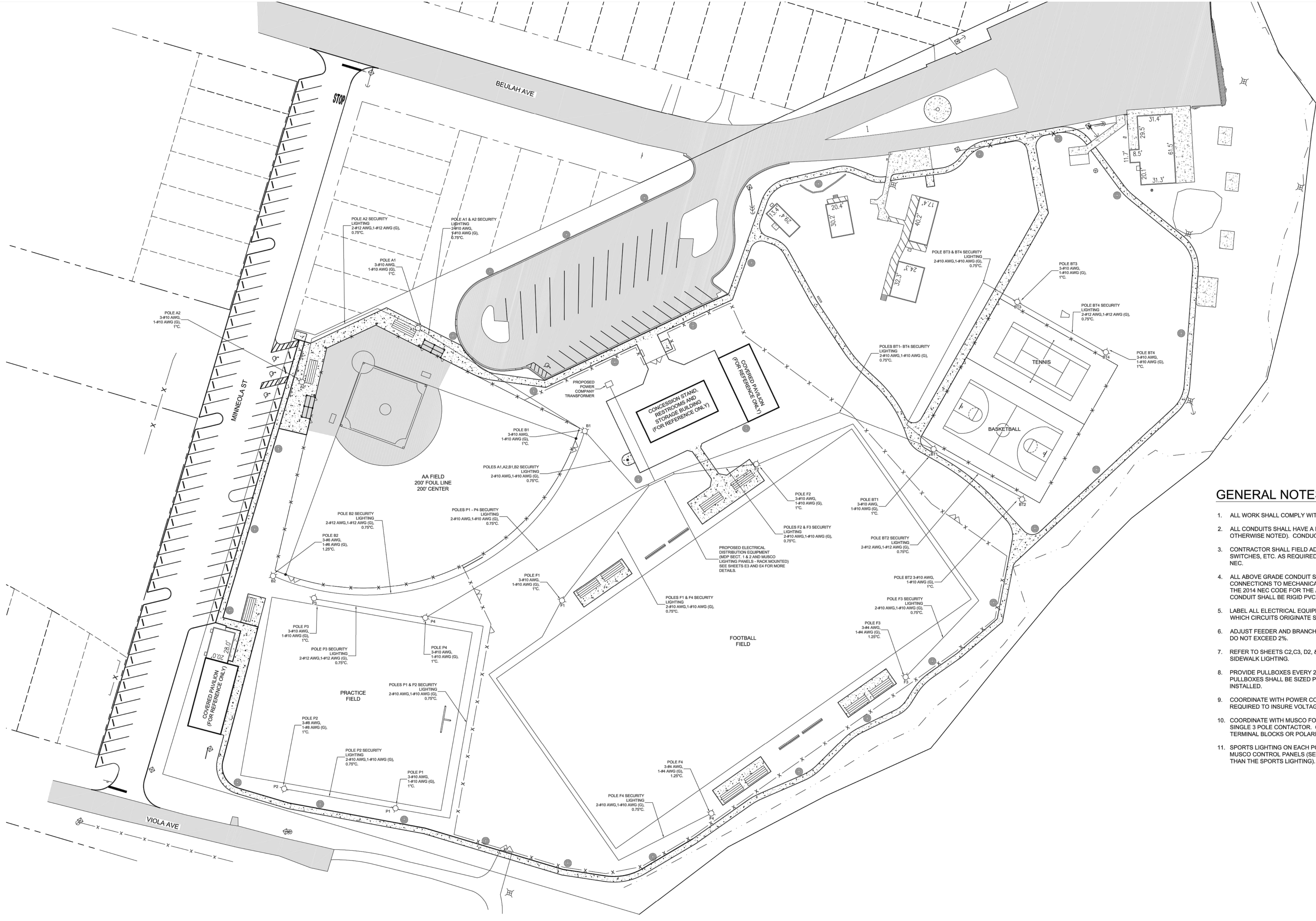
**BLEACHER DETAILS**  
 GORE PARK  
 IMPROVEMENTS  
 CALLAWAY, FLORIDA

James H. Slonina, P.E. 39197  
 Christopher B. Forehand, P.E. 58028  
 Stephen E. Price, P.E. 71648  
 J. Doug Crook, P.E. 66556

**CHRISTOPHER B. FOREHAND**  
 LICENSE  
 NO. 58028  
 STATE OF  
 FLORIDA  
 PROFESSIONAL ENGINEER

SHEET NUMBER	D7
PROJECT NUMBER	26018

26018 GORE PARK IMPROVEMENTS BLEACHER DETAILS Sheet D7



**GENERAL NOTES**

1. ALL WORK SHALL COMPLY WITH 2014 NEC AND ALL APPLICABLE LOCAL CODES.
2. ALL CONDUITS SHALL HAVE A BOND WIRE SIZED PER TABLE 250.122 OF THE NEC (UNLESS OTHERWISE NOTED). CONDUCTORS SHALL NOT BE SPLICED EXCEPT AS NOTED.
3. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PANELS, TRANSFORMERS, DISCONNECT SWITCHES, ETC. AS REQUIRED TO MAINTAIN CLEAR WORKING SPACE AS REQUIRED BY THE 2014 NEC.
4. ALL ABOVE GRADE CONDUIT SHALL BE RIGID STEEL WITH SEALTITE FLEX FOR FINAL CONNECTIONS TO MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED AND/OR REQUIRED BY THE 2014 NEC CODE FOR THE AREA & CONDITIONS OF INSTALLATION. ALL BELOW GRADE CONDUIT SHALL BE RIGID PVC. ALL CONDUCTORS SHALL BE COPPER.
5. LABEL ALL ELECTRICAL EQUIPMENT AS REQUIRED BY THE 2014 NEC CODE. LOCATIONS FROM WHICH CIRCUITS ORIGINATE SHALL BE MARKED ON ALL EQUIPMENT.
6. ADJUST FEEDER AND BRANCH CIRCUIT SIZING AS REQUIRED TO INSURE TOTAL VOLTAGE DROPS DO NOT EXCEED 2%.
7. REFER TO SHEETS C2,C3, D2, & MUSCO DETAILS FOR MORE DETAILS FOR FIELD LIGHTING AND SIDEWALK LIGHTING.
8. PROVIDE PULLBOXES EVERY 200'. PULLBOX COVERS SHALL BE LABELLED "ELECTRICAL". PULLBOXES SHALL BE SIZED PER THE 2014 NEC AND SUITABLE FOR THE LOCATION THEY ARE INSTALLED.
9. COORDINATE WITH POWER COMPANY FOR FINAL LOCATION AND ADJUST WIRE/CONDUIT AS REQUIRED TO INSURE VOLTAGE DROP IS LESS THAN 1% FOR SERVICE CONDUCTORS.
10. COORDINATE WITH MUSCO FOR SECURITY LIGHTING CONTACTOR LAYOUT. MAY ONLY BE A SINGLE 3 POLE CONTACTOR. COMBINE CIRCUITS AS REQUIRED USING UL LISTED POWER TERMINAL BLOCKS OR POLARIS TAPS AND UTILIZE CIRCUIT BREAKER(S) IN MDP AS REQUIRED.
11. SPORTS LIGHTING ON EACH POLE SHALL BE FED FROM A SINGLE 3 PHASE HOMERUN FROM THE MUSCO CONTROL PANELS (SECURITY LIGHT ON EACH POLE IS FED FROM A SEPARATE CIRCUIT THAN THE SPORTS LIGHTING). SEE MUSCO DETAILS FOR MORE INFORMATION.

**CHAD HALL, P.E.**  
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FL License # 65846

Date: Wednesday, February 2, 2022 10:57:53 AM ID: Jim Hesketh File: P:26018\_Gore Park Callaway\_V1\_Civil\_Electrical Drawings (26018.dwg)

REV	DATE	BY	REVISIONS

SCALE: AS NOTED
DESIGNED BY: CBF
DRAWN BY: JAH
REVIEWED BY: CBF
ISSUE DATE: FEBRUARY 2022
ACAD FILE NAME: 26018e1.dwg

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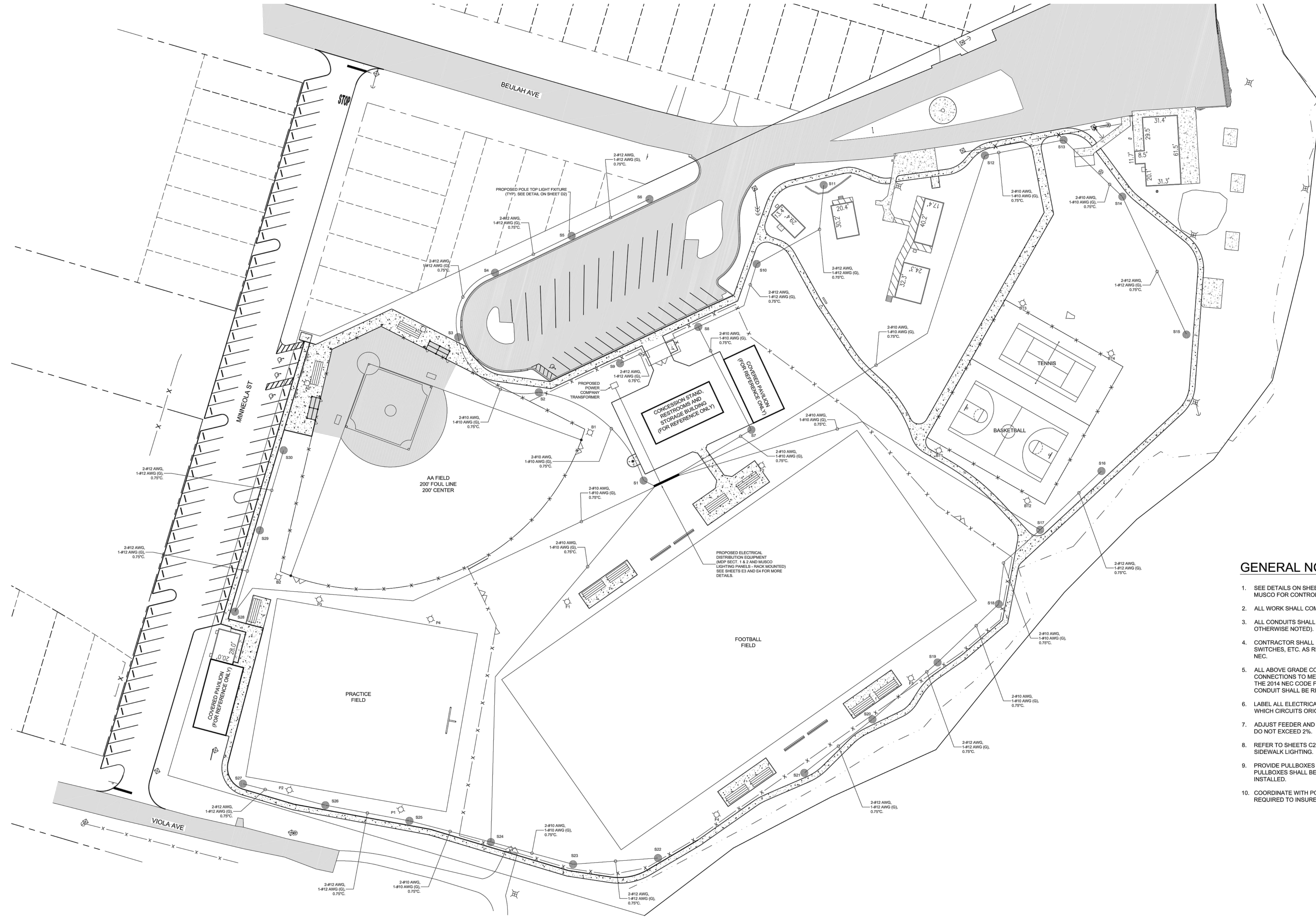
**SPORTS & SECURITY LIGHTING SITE PLAN - SITE PACKAGE**  
**GORE PARK IMPROVEMENTS**  
**CALLAWAY, FLORIDA**

James H. Slonina, P.E. 39197  
Christopher B. Forehand, P.E. 58028  
Stephen E. Price, P.E. 71646  
J. Doug Crook, P.E. 66556

SHEET NUMBER <b>E1</b>
PROJECT NUMBER <b>26018</b>

26018 GORE PARK IMPROVEMENTS SPORTS & SECURITY LIGHTING SITE PLAN - SITE PACKAGE Sheet E1





**GENERAL NOTES**

1. SEE DETAILS ON SHEET D2 FOR SIDEWALK LIGHTING FIXTURE INFORMATION. COORDINATE WITH MUSCO FOR CONTROLS FOR THESE FIXTURES.
2. ALL WORK SHALL COMPLY WITH 2014 NEC AND ALL APPLICABLE LOCAL CODES.
3. ALL CONDUITS SHALL HAVE A BOND WIRE SIZED PER TABLE 250.122 OF THE NEC (UNLESS OTHERWISE NOTED). CONDUCTORS SHALL NOT BE SPLICED EXCEPT AS NOTED.
4. CONTRACTOR SHALL FIELD ADJUST LOCATION OF PANELS, TRANSFORMERS, DISCONNECT SWITCHES, ETC. AS REQUIRED TO MAINTAIN CLEAR WORKING SPACE AS REQUIRED BY THE 2014 NEC.
5. ALL ABOVE GRADE CONDUIT SHALL BE RIGID STEEL WITH SEALTITE FLEX FOR FINAL CONNECTIONS TO MECHANICAL EQUIPMENT UNLESS OTHERWISE NOTED AND/OR REQUIRED BY THE 2014 NEC CODE FOR THE AREA & CONDITIONS OF INSTALLATION. ALL BELOW GRADE CONDUIT SHALL BE RIGID PVC. ALL CONDUCTORS SHALL BE COPPER.
6. LABEL ALL ELECTRICAL EQUIPMENT AS REQUIRED BY THE 2014 NEC CODE. LOCATIONS FROM WHICH CIRCUITS ORIGINATE SHALL BE MARKED ON ALL EQUIPMENT.
7. ADJUST FEEDER AND BRANCH CIRCUIT SIZING AS REQUIRED TO INSURE TOTAL VOLTAGE DROPS DO NOT EXCEED 2%.
8. REFER TO SHEETS C2, C3, D2, & MUSCO DETAILS FOR MORE DETAILS FOR FIELD LIGHTING AND SIDEWALK LIGHTING.
9. PROVIDE PULLBOXES EVERY 200'. PULLBOX COVERS SHALL BE LABELLED "ELECTRICAL". PULLBOXES SHALL BE SIZED PER THE 2014 NEC AND SUITABLE FOR THE LOCATION THEY ARE INSTALLED.
10. COORDINATE WITH POWER COMPANY FOR FINAL LOCATION AND ADJUST WIRE/CONDUIT AS REQUIRED TO INSURE VOLTAGE DROP IS LESS THAN 1% FOR SERVICE CONDUCTORS.

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FL License # 65846

Date: Wednesday, February 2, 2022 10:57:56 AM Ed: Jim Hopkins File: P:\26018 Gore Park Callaway\1. Civil\3D\Folder Drawings\26018a1.dwg

REV	DATE	BY	REVISIONS

SCALE: AS NOTED
DESIGNED BY: CBF
DRAWN BY: JAH
REVIEWED BY: CBF
ISSUE DATE: FEBRUARY 2022
ACAD FILE NAME: 26018a1.dwg

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**SIDEWALK LIGHTING SITE PLAN - SITE PLAN**  
**GORE PARK IMPROVEMENTS**  
**CALLAWAY, FLORIDA**

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J. Doug Crook, P.E. 66556

SHEET NUMBER	<b>E2</b>
PROJECT NUMBER	<b>26018</b>

DPR CERTIFICATION #EB-7806

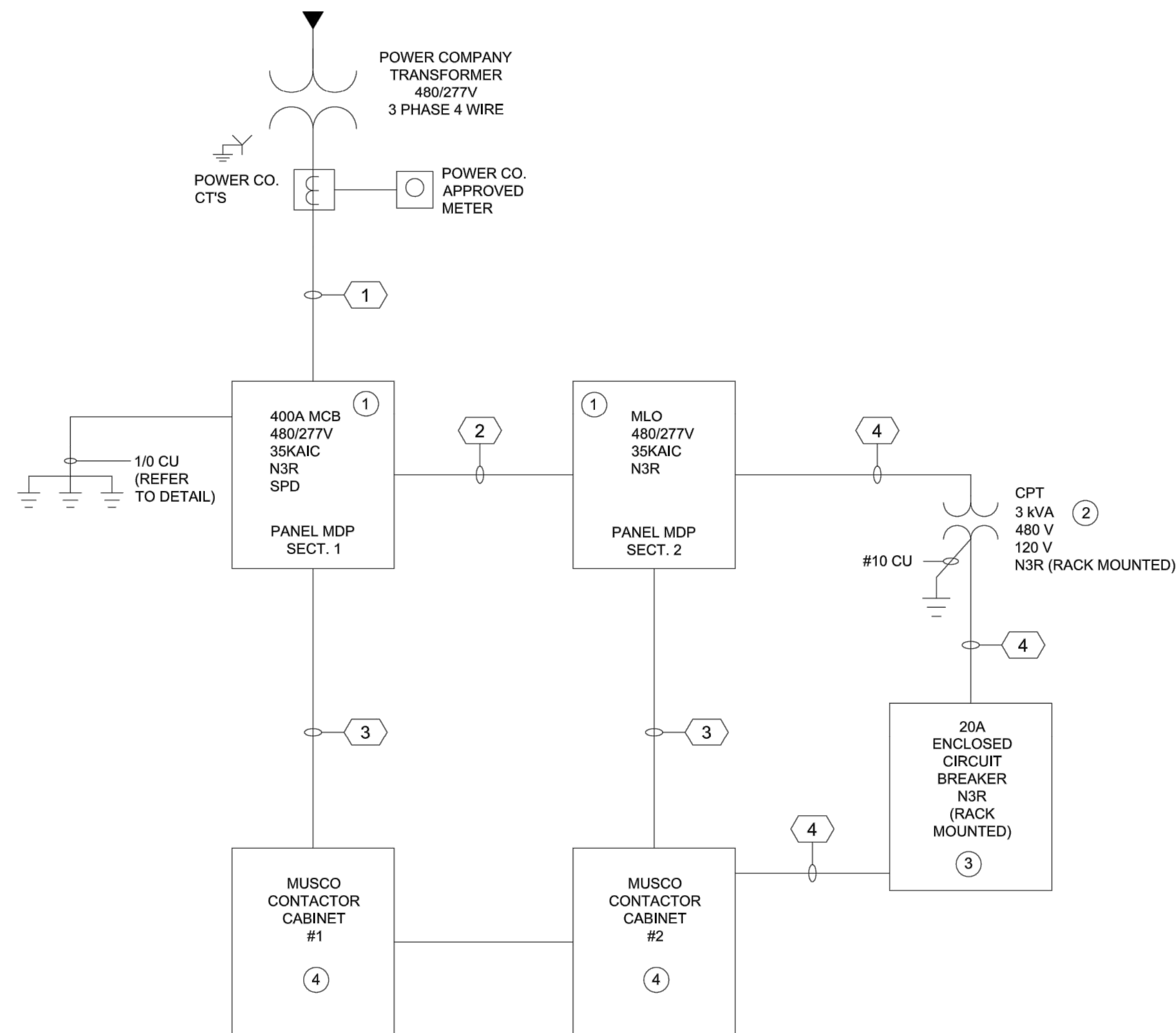
26018 GORE PARK IMPROVEMENTS SIDEWALK LIGHTING SITE PLAN - SITE PLAN Sheet E2

### CONDUIT AND WIRE LEGEND (NUMBERS REFERENCE THIS SHEET ONLY)

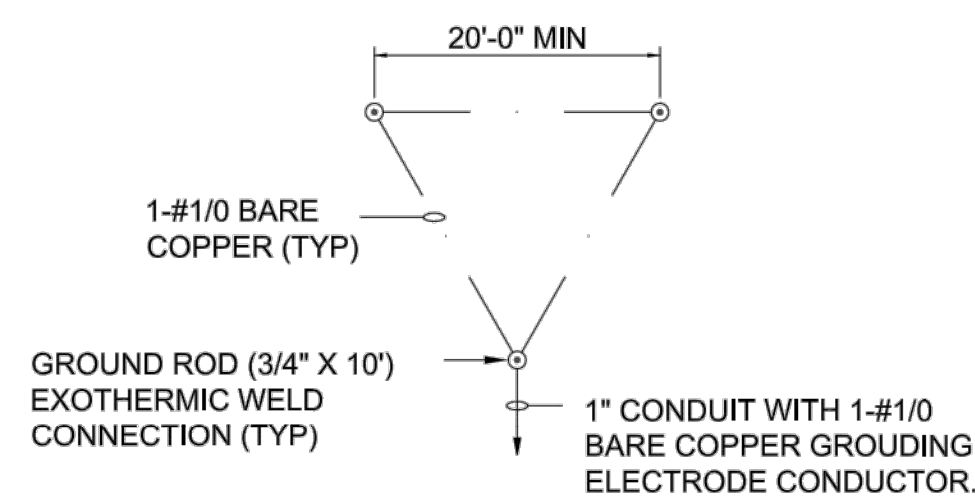
NO.	DESCRIPTION
①	4 - 500 KCML, 3" C.
②	4 - 500 KCML, 1 - #3 AWG (G), 3" C.
③	PER MUSCO CONTACTOR LAYOUT - COORDINATE WITH MUSCO
④	2 - #12 AWG, 1 - #12 AWG (G), 0.5" C.

### EQUIPMENT SCHEDULE

①	MDP - 480/277V, 3PH/4W, 400A MAIN DISTRIBUTION PANEL, 35KAIC, N3R RACK MOUNTED PANELBOARD. PROVIDE WITH COPPER BUSSING. 160KA PER PHASE / 80KA PER MODE SPD. PROVIDE AS 2 SECTION PANELBOARD (400A MAIN BREAKER IN SECTION 1 WITH FEED THRU LUGS (FTL) AND FTL IN SECTION 2 FOR FUTURE SECTION 3 EXPANSION. PROVIDE WITH HINGED INTERIOR AND LOCKABLE EXTERIOR DOOR. PROVIDE LOCK OUT PROVISIONS FOR ALL CIRCUIT BREAKERS. SEE PANEL SCHEDULE ON SHEET E4 FOR BREAKER REQUIREMENTS.
②	CPT - 1PH, 3 KVA, 480V PRIMARY, 120V SECONDARY, N3R TRANSFORMER FOR MUSCO CONTROL POWER. RACK MOUNT.
③	ENCLOSED CIRCUIT BREAKER IN NEMA 3R ENCLOSURE, 480V/277V, 20A, 2P, 35KAIC, SQUARED D TYPE HG OR EQUAL.
④	MUSCO CONTROL & MONITORING CABINET (TYPICAL - FURNISHED BY MUSCO). COORDINATE WITH MUSCO FOR FINAL REQUIREMENTS AND CABINET QTY. SPORTS LIGHTING, SECURITY LIGHTING, AND SIDEWALK LIGHTING SHOULD ALL BE CONTROLLED BY MUSCO CONTROLS.



SINGLE LINE DIAGRAM



DETAIL - TYPICAL TRIAD GROUND ROD GRID

### NOTES:

- SEE ELECTRICAL SITE PLAN FOR CIRCUIT CONDUCTOR & CONDUIT SIZING TO EACH POLE. CONDUITS TO POLES SHALL NOT CROSS PLAYING FIELDS. COORDINATE WITH MUSCO FOR FINAL CONTACTOR ARRANGMENT IN EACH PANEL.
- FURNISH TROUGH OR JUNCTION BOX ON RACK WITH UL LISTED POLARIS TAPS OR EQUAL TO REDUCE WIRE SIZE TO FIT CONTACTOR TERMINALS AS REQUIRED.
- COORDINATE POWER COMPANY TRANSFORMER LOCATION AND METERING REQUIREMENTS WITH POWER COMPANY.

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SCALE: AS NOTED
DESIGNED BY: CBF
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ELECTRICAL RISER & DETAILS - SITE PACKAGE  
GORE PARK IMPROVEMENTS  
CALLAWAY, FLORIDA

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Christopher B. Forehand, P.E. 58028  
Stephen E. Price, P.E. 71648  
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SHEET NUMBER  
**E3**  
PROJECT NUMBER  
**26018**

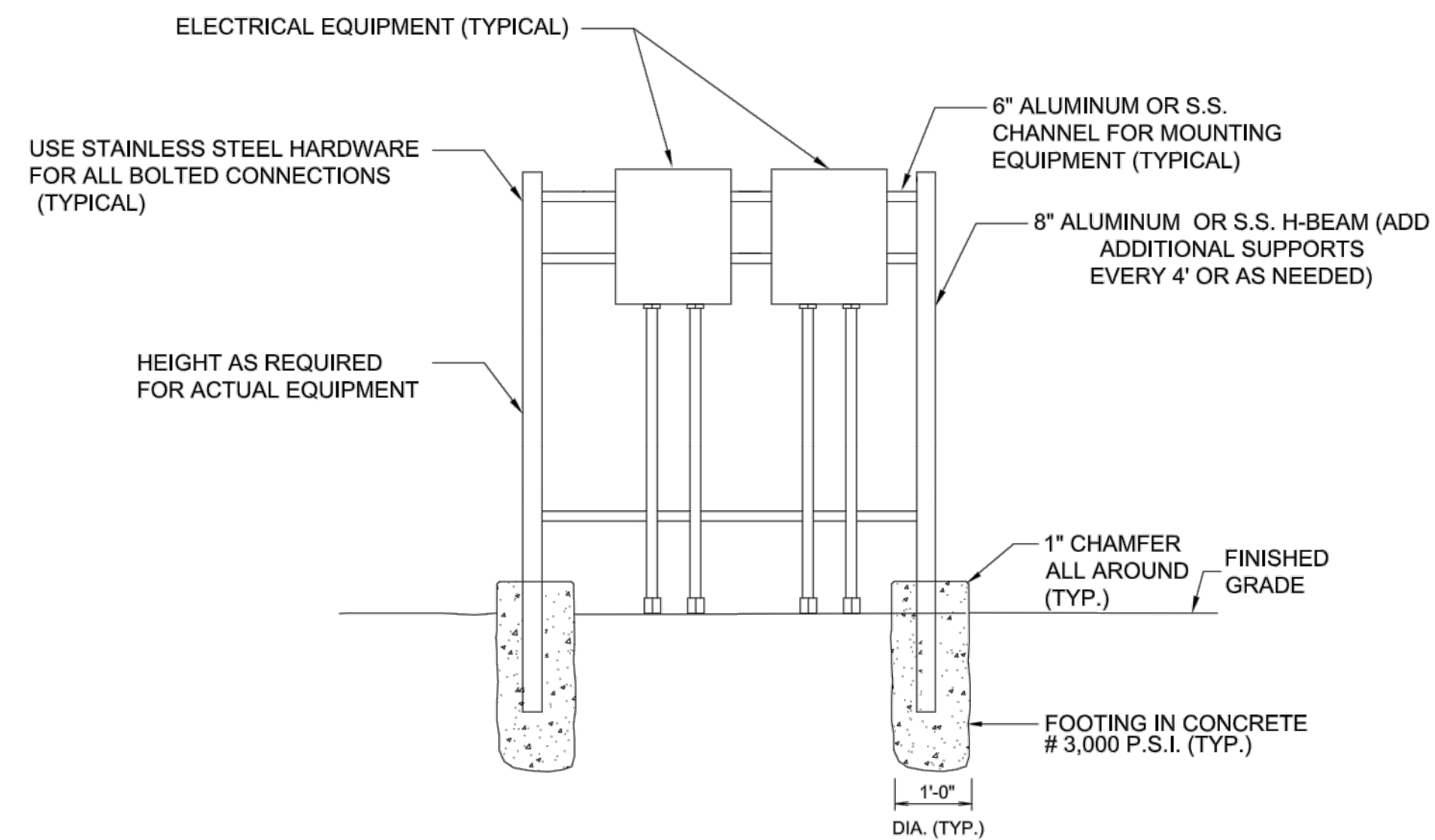
DPR CERTIFICATION #EB-7806

PANEL: MDP - SECTION 1												
3 PH 4 WIRE VOLTAGE: L-L: 480 L-N: 277 MAIN: 400A MAIN BREAKER AIC RATING: 35,000 MINIMUM NEMA RATING: 3R MOUNTING: RACK												
LOCATION:			RACK - SEE SITE PLAN			PHASE			OPTIONS: BOLT ON BREAKERS, SPD, FEED THRU LUGS			
CKT#	BKR.	POLE	DESCRIPTION	VOLT-AMP	A	B	C	VOLT-AMP	DESCRIPTION	POLE	BKR.	CKT#
1				2,078	6678			4,600				2
3	15	3	POLE A1 - SOFTBALL 1	2,078		6678		4,600	POLE B1 - SOFTBALL 1	3	30	4
5				2,078			6678	4,600				6
7				2,078	6678			4,600				8
9	15	3	POLE A2 - SOFTBALL 1	2,078		6678		4,600	POLE B2 - SOFTBALL 1	3	30	10
11				2,078			6678	4,600				12
13				5,016	10032			5,016				14
15	30	3	POLE F1 - FOOTBALL	5,016		10032		5,016	POLE F2 - FOOTBALL	3	30	16
17				5,016			10032	5,016				18
19				5,016	10032			5,016				20
21	30	3	POLE F3 - FOOTBALL	5,016		10032		5,016	POLE F4 - FOOTBALL	3	30	22
23				5,016			10032	5,016				24
25				831	1662			831				26
27	15	3	POLE BT1 - BASKETBALL / TENNIS	831		1662		831	POLE BT2 - BASKETBALL / TENNIS	3	15	28
29				831			1662	831				30
31				831	1662			831				32
33	15	3	POLE BT3 - BASKETBALL / TENNIS	831		1662		831	POLE BT4 - BASKETBALL / TENNIS	3	15	34
35				831			1662	831				36
37			SPD		0							38
39			SPD			0			MUSCO POWERLINE FEED	3	20	40
41			SPD				0					42
TOTAL CONNECTED VA					36,744	36,744	36,744					

PANEL: MDP - SECTION 2												
3 PH 4 WIRE VOLTAGE: L-L: 480 L-N: 277 MAIN: 400A MAIN LUGS AIC RATING: 35,000 MINIMUM NEMA RATING: 3R MOUNTING: RACK												
LOCATION:			RACK - SEE SITE PLAN			PHASE			OPTIONS: BOLT ON BREAKERS, FEED THRU LUGS			
CKT#	BKR.	POLE	DESCRIPTION	VOLT-AMP	A	B	C	VOLT-AMP	DESCRIPTION	POLE	BKR.	CKT#
1				1,690	3380			1,690				2
3	15	3	POLE P1 - PRACTICE	1,690		3380		1,690	POLE P2 - PRACTICE	3	15	4
5				1,690			3380	1,690				6
7				1,690	3380			1,690				8
9	15	3	POLE P3 - PRACTICE	1,690		3380		1,690	POLE P4 - PRACTICE	3	15	10
11				1,690			3380	1,690				12
13	15	2	POLES A1, A2, B1, B2 - SECURITY FIXTURES	325	325							14
15				325		325			SPARE	3	30	16
17	15	2	POLES BT1 - BT4 - SECURITY FIXTURES	325			325					18
19				325	325				SPARE	1	15	20
21	15	2	POLES P1 - P4 - SECURITY FIXTURES	325		325			SPARE	1	20	22
23				325			16843	16,518	CONCESSION BUILDING (N.I.C.)	2	150	24
25	15	2	POLES F1 & F4 - SECURITY FIXTURES	163	16494.5			16,332				26
27				163		162.5			SPARE	2	15	28
29	15	2	POLES F2 & F3 - SECURITY FIXTURES	163			162.5					30
31				163	822.5			660	SIDEWALK POLES S1 - S6	1	15	32
33	20	2	CPT FOR MUSCO CONTROLS	660		1210		550	SIDEWALK POLES S7 - S11	1	15	34
35				660			1100	440	SIDEWALK POLES S12 - S15	1	15	36
37					660			660	SIDEWALK POLES S16 - S21	1	15	38
39	15	3	SPARE			660		660	SIDEWALK POLES S22 - S27	1	15	40
41							330	330	SIDEWALK POLES S28 - S30	1	15	42
TOTAL CONNECTED VA					25,387	9,443	25,521					

### GENERAL NOTES

- "N.I.C." EQUIPMENT IN BUILDING CONTRACT. FURNISH BREAKER ONLY. WIRE AND CONDUIT WILL BE FURNISHED UNDER THE "BUILDING" CONTRACT.



TYPICAL ELECTRICAL EQUIPMENT RACK DETAIL  
NOT TO SCALE

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Date: Wednesday, February 2, 2022 10:56:01 AM ID: Jim Haskind File: P:\2021E Gore Park Callaway\1 Civil\3DFabric\Drawings\26018.dwg

REV	DATE	BY	REVISIONS

SCALE: AS NOTED
DESIGNED BY: CBF
DRAWN BY: JAH
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PANEL SCHEDULE & RACK DETAIL - SITE PACKAGE  
GORE PARK IMPROVEMENTS  
CALLAWAY, FLORIDA

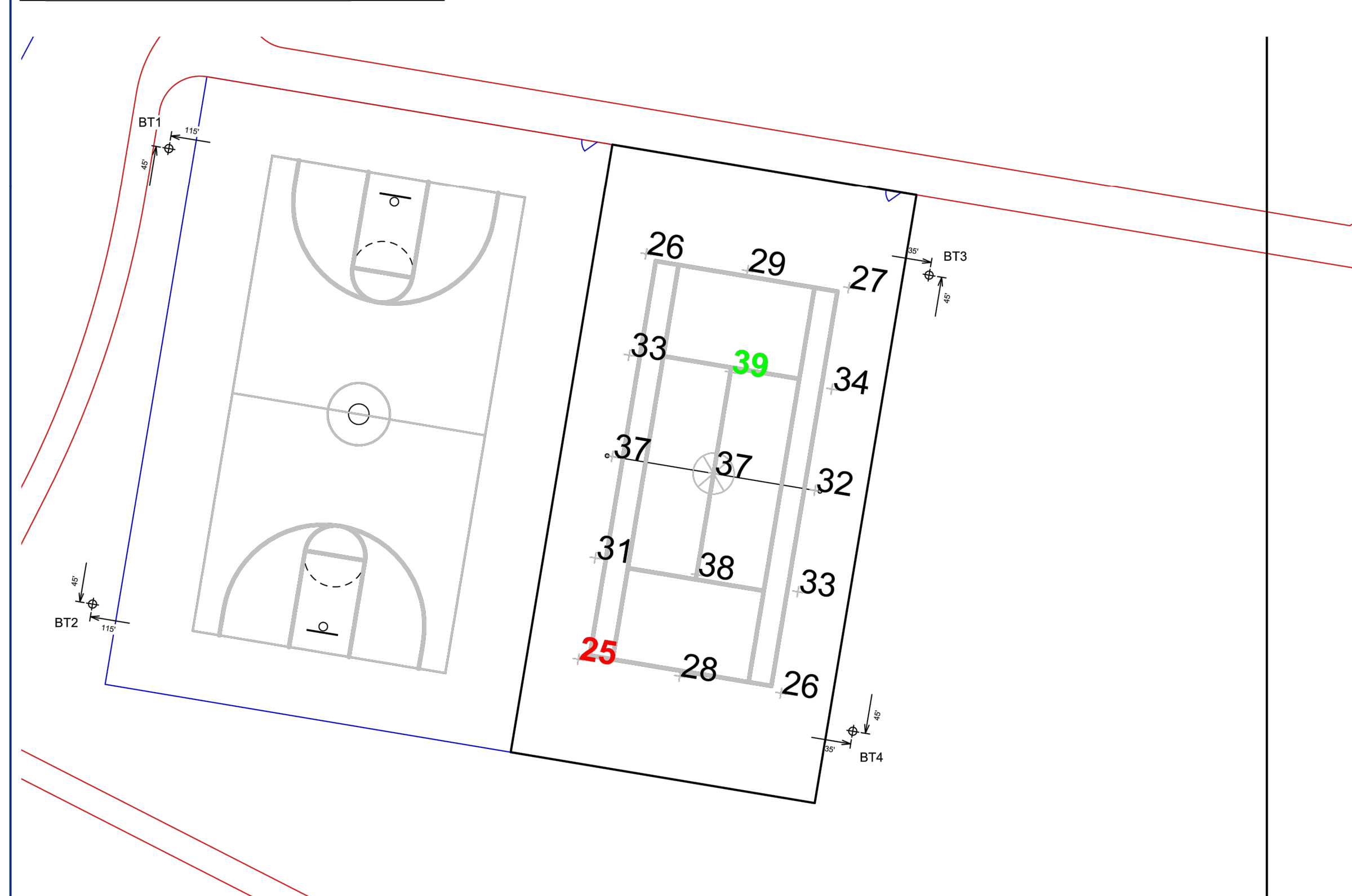
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SHEET NUMBER <b>E4</b>
PROJECT NUMBER <b>26018</b>

26018 PANEL SCHEDULE & RACK DETAIL - SITE PACKAGE IMPROVEMENTS PANEL SCHEDULE & RACK DETAIL - SITE PACKAGE Sheet E4



EQUIPMENT LIST FOR AREAS SHOWN									
QTY	LOCATION	SIZE	GRADE	MOUNTING HEIGHT	LUMINAIRE TYPE	OFF. PER. (%)	THIS SHEET	OTHER SHEETS	OTHER
4	BT1, BT2, BT3, BT4	50'	ELEVATION	50'	TLC-LED-600	2	2	0	0
4					CREC OSQ	1	0	1	4
TOTALS									



### Callaway Gore Park

**GRID SUMMARY**  
Name: Tennis  
Size: 1 Court - 12' Spacing  
Spacing: 20.0' x 20.0'  
Height: 3.0' above grade

**ILLUMINATION SUMMARY**  
Name: Tennis  
Scan Average: 31.59  
Maximum: 39  
Minimum: 25  
Avg / Min: 1.26  
Guaranteed Max / Min: 2.5  
Max / Min: 1.55  
UG (adjacent pts): 0.00  
CU: 0.37  
CV: 0.15  
No. of Points: 15  
Color / CRI: 5700K - 75 CRI  
Luminaire Output: 65,600 lumens  
No. of Luminaires: 8  
Total Load: 4.64 kW

**ILLUMINATION SUMMARY**

Maintained Horizontal Footcandle

Entire Grid

Scan Average: 31.59  
Maximum: 39  
Minimum: 25  
Avg / Min: 1.26  
Guaranteed Max / Min: 2.5  
Max / Min: 1.55  
UG (adjacent pts): 0.00  
CU: 0.37  
CV: 0.15  
No. of Points: 15  
Color / CRI: 5700K - 75 CRI  
Luminaire Output: 65,600 lumens  
No. of Luminaires: 8  
Total Load: 4.64 kW

Luminaire Information

Luminaire Type	150 hrs	180 hrs	170 hrs
TLC-LED-600	>120,000	>120,000	>120,000
CREC OSQ	-	-	-

Reported per TM-21-11. See luminaire datasheet for details.

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**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.

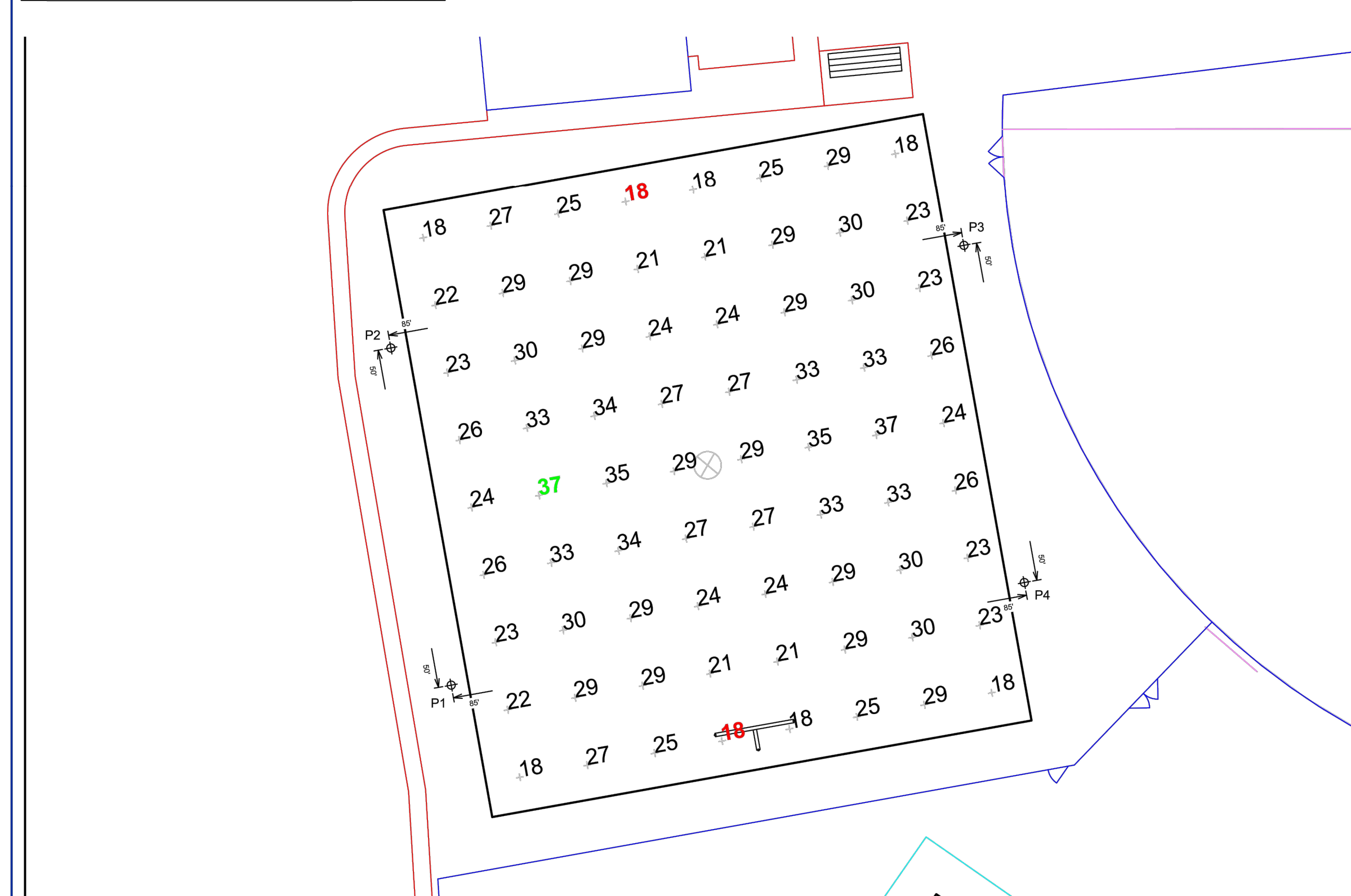
MUSCO Lighting  
We Make It Happen.

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**ILLUMINATION SUMMARY**

SCALE IN FEET 1 : 20  
ENGINEERED DESIGN By: C.Lamberson • File #142130C • 04-Mar-20

EQUIPMENT LIST FOR AREAS SHOWN									
QTY	LOCATION	SIZE	GRADE	MOUNTING HEIGHT	LUMINAIRE TYPE	OFF. PER. (%)	THIS SHEET	OTHER SHEETS	OTHER
4	P1-P4	50'	ELEVATION	50'	TLC-LED-1200	2	2	0	0
4					CREC OSQ	1	0	1	4
TOTALS									



### Callaway Gore Park

**GRID SUMMARY**  
Name: Practice  
Size: 167' x 180'  
Spacing: 20.0' x 20.0'  
Height: 3.0' above grade

**ILLUMINATION SUMMARY**  
Name: Practice  
Scan Average: 26.65  
Maximum: 37  
Minimum: 18  
Avg / Min: 1.52  
Guaranteed Max / Min: 2.5  
Max / Min: 2.12  
UG (adjacent pts): 1.58  
CU: 0.75  
CV: 0.19  
No. of Points: 72  
Color / CRI: 5700K - 75 CRI  
Luminaire Output: 136,000 lumens  
No. of Luminaires: 8  
Total Load: 9.36 kW

**ILLUMINATION SUMMARY**

Maintained Horizontal Footcandle

Entire Grid

Scan Average: 26.65  
Maximum: 37  
Minimum: 18  
Avg / Min: 1.52  
Guaranteed Max / Min: 2.5  
Max / Min: 2.12  
UG (adjacent pts): 1.58  
CU: 0.75  
CV: 0.19  
No. of Points: 72  
Color / CRI: 5700K - 75 CRI  
Luminaire Output: 136,000 lumens  
No. of Luminaires: 8  
Total Load: 9.36 kW

Luminaire Information

Luminaire Type	150 hrs	180 hrs	170 hrs
TLC-LED-1200	>120,000	>120,000	>120,000
CREC OSQ	-	-	-

Reported per TM-21-11. See luminaire datasheet for details.

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

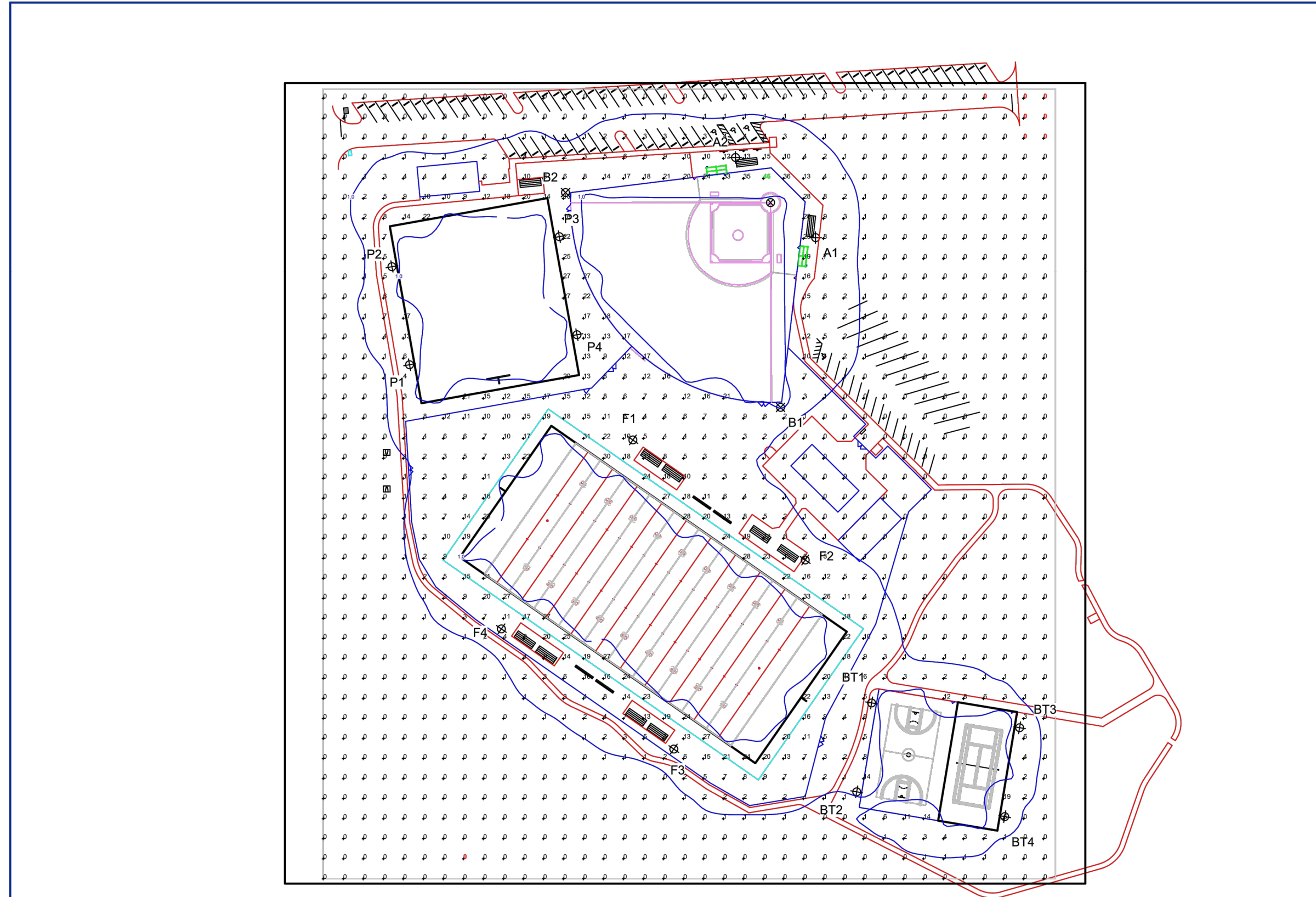
**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

MUSCO Lighting  
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**ILLUMINATION SUMMARY**

SCALE IN FEET 1 : 30  
ENGINEERED DESIGN By: C.Lamberson • File #142130C • 04-Mar-20



### Callaway Gore Park

**GRID SUMMARY**  
Name: Zero Grid  
Spacing: 20.0' x 20.0'  
Height: 3.0' above grade

**ILLUMINATION SUMMARY**  
Name: Zero Grid  
Scan Average: 3.45  
Maximum: 45  
Minimum: 0  
Avg / Min: -  
Max / Min: -  
UG (adjacent pts): 90.46  
CU: 0.23  
CV: 1.90  
No. of Points: 1126  
Color / CRI: 5700K - 75 CRI  
Luminaire Output: 136,000 / 52,000 / 65,600 lumens  
No. of Luminaires: 62  
Total Load: 60.68 kW

**ILLUMINATION SUMMARY**

Maintained Horizontal Footcandle

Entire Grid

Scan Average: 3.45  
Maximum: 45  
Minimum: 0  
Avg / Min: -  
Max / Min: -  
UG (adjacent pts): 90.46  
CU: 0.23  
CV: 1.90  
No. of Points: 1126  
Color / CRI: 5700K - 75 CRI  
Luminaire Output: 136,000 / 52,000 / 65,600 lumens  
No. of Luminaires: 62  
Total Load: 60.68 kW

Luminaire Information

Luminaire Type	150 hrs	180 hrs	170 hrs
TLC-LED-1200	>120,000	>120,000	>120,000
TLC-81575	>120,000	>120,000	>120,000
TLC-LED-600	>120,000	>120,000	>120,000

Reported per TM-21-11. See luminaire datasheet for details.

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

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

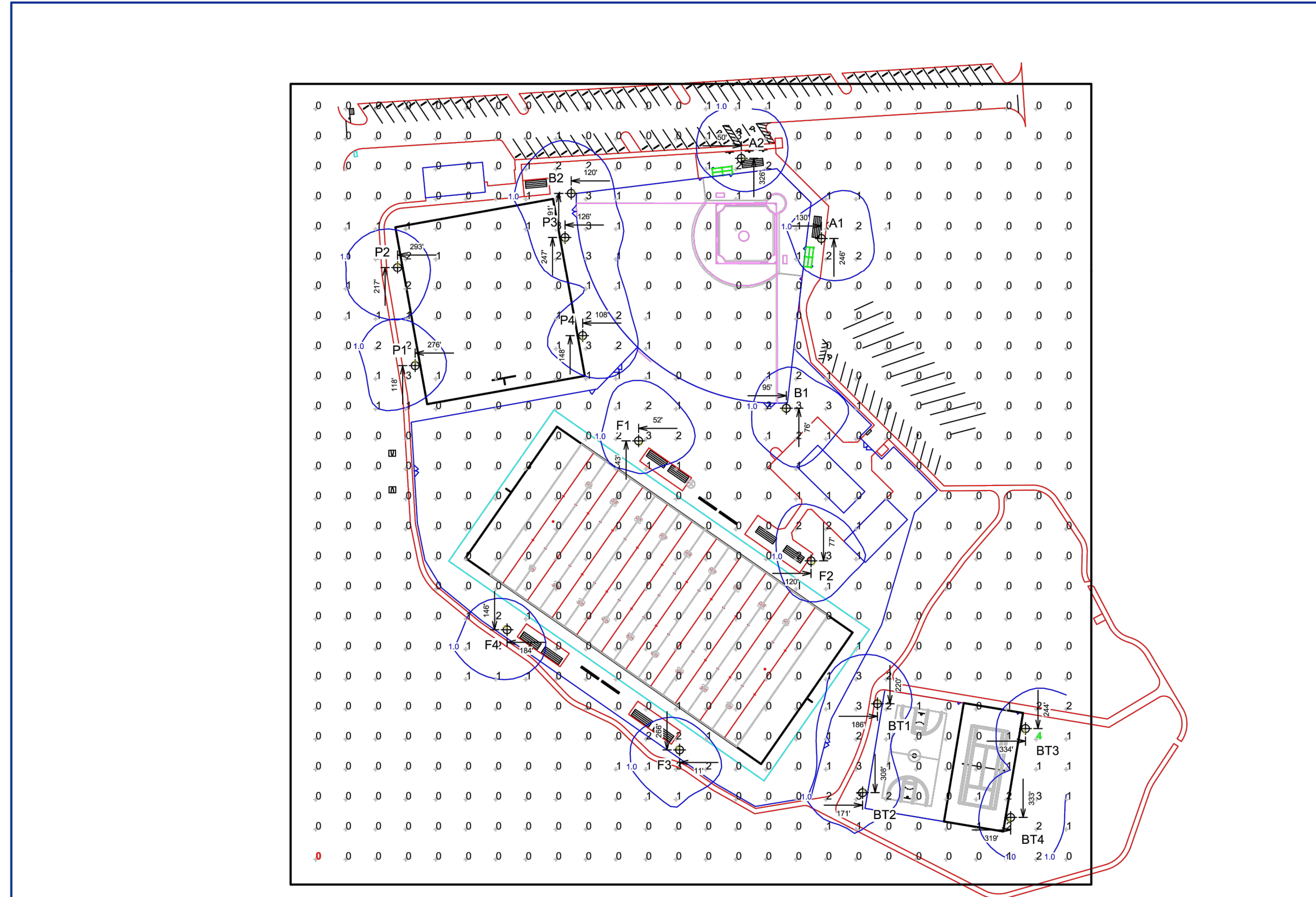
**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

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**ILLUMINATION SUMMARY**

SCALE IN FEET 1 : 100  
ENGINEERED DESIGN By: C.Lamberson • File #142130C • 04-Mar-20



### Callaway Gore Park

**GRID SUMMARY**  
Name: Security  
Size: 800' x 800'  
Spacing: 30.0' x 30.0'  
Height: 3.0' above grade

**ILLUMINATION SUMMARY**  
Name: Security  
Scan Average: 0.42  
Maximum: 4  
Minimum: 0  
Avg / Min: -  
Max / Min: 3466.27  
UG (adjacent pts): 14.71  
CU: 0.96  
CV: 1.74  
No. of Points: 676  
Color / CRI: 5700K - 70 CRI  
Luminaire Output: 16,599 lumens  
No. of Luminaires: 16  
Total Load: 2.08 kW

**ILLUMINATION SUMMARY**

Maintained Horizontal Footcandle

Entire Grid

Scan Average: 0.42  
Maximum: 4  
Minimum: 0  
Avg / Min: -  
Max / Min: 3466.27  
UG (adjacent pts): 14.71  
CU: 0.96  
CV: 1.74  
No. of Points: 676  
Color / CRI: 5700K - 70 CRI  
Luminaire Output: 16,599 lumens  
No. of Luminaires: 16  
Total Load: 2.08 kW

Luminaire Information

Luminaire Type	150 hrs	180 hrs	170 hrs
CREC OSQ	-	-	-

Reported per TM-21-11. See luminaire datasheet for details.

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**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.

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**ILLUMINATION SUMMARY**

SCALE IN FEET 1 : 100  
ENGINEERED DESIGN By: C.Lamberson • File #142130C • 04-Mar-20

Date: Wednesday, February 2, 2022 10:56:13 AM ID: Jim Haskard File: P:26018 Callaway, FL Callaway, FL Callaway, FL Callaway, FL Callaway, FL Callaway, FL Callaway, FL Callaway, FL Callaway, FL Callaway, FL

REV	DATE	BY	REVISIONS

SCALE:	AS NOTED
DESIGNED BY:	CBF
DRAWN BY:	JAH
REVIEWED BY:	CBF
ISSUE DATE:	FEBRUARY 2022
ACAD FILE NAME:	26018e1.dwg

**PANHANDLE ENGINEERING, INC.**  
ENVIRONMENTAL ENGINEERS • CIVIL ENGINEERS • LAND PLANNERS  
600 Ohio Avenue Lynn Haven, Florida 32444  
(850) 763-5200 www.panhandleengineering.com

**MUSCO LIGHTING DETAILS  
GORE PARK  
IMPROVEMENTS  
CALLAWAY, FLORIDA**

James H. Slonina, P.E. 39197  
Christopher B. Forehand, P.E. 58028  
Stephen E. Price, P.E. 71646  
J. Doug Crook, P.E. 66556

CHRISTOPHER B. FOREHAND  
LICENSE  
NO. 58028  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER

DPR CERTIFICATION #EB-7806

SHEET NUMBER  
**M2**

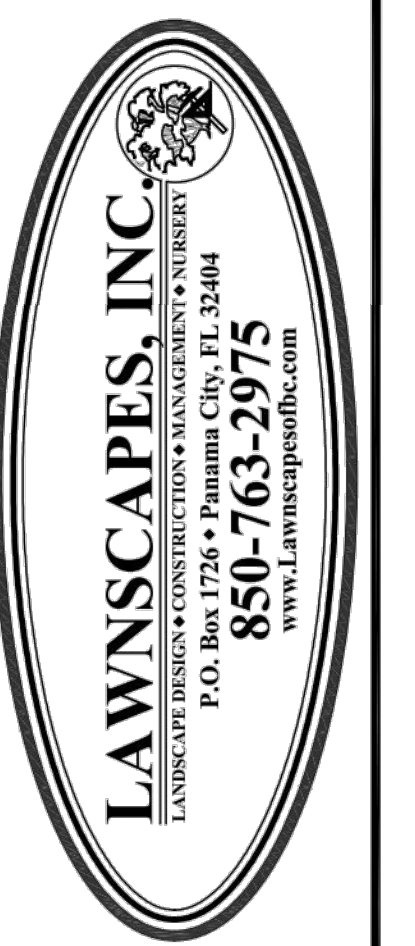
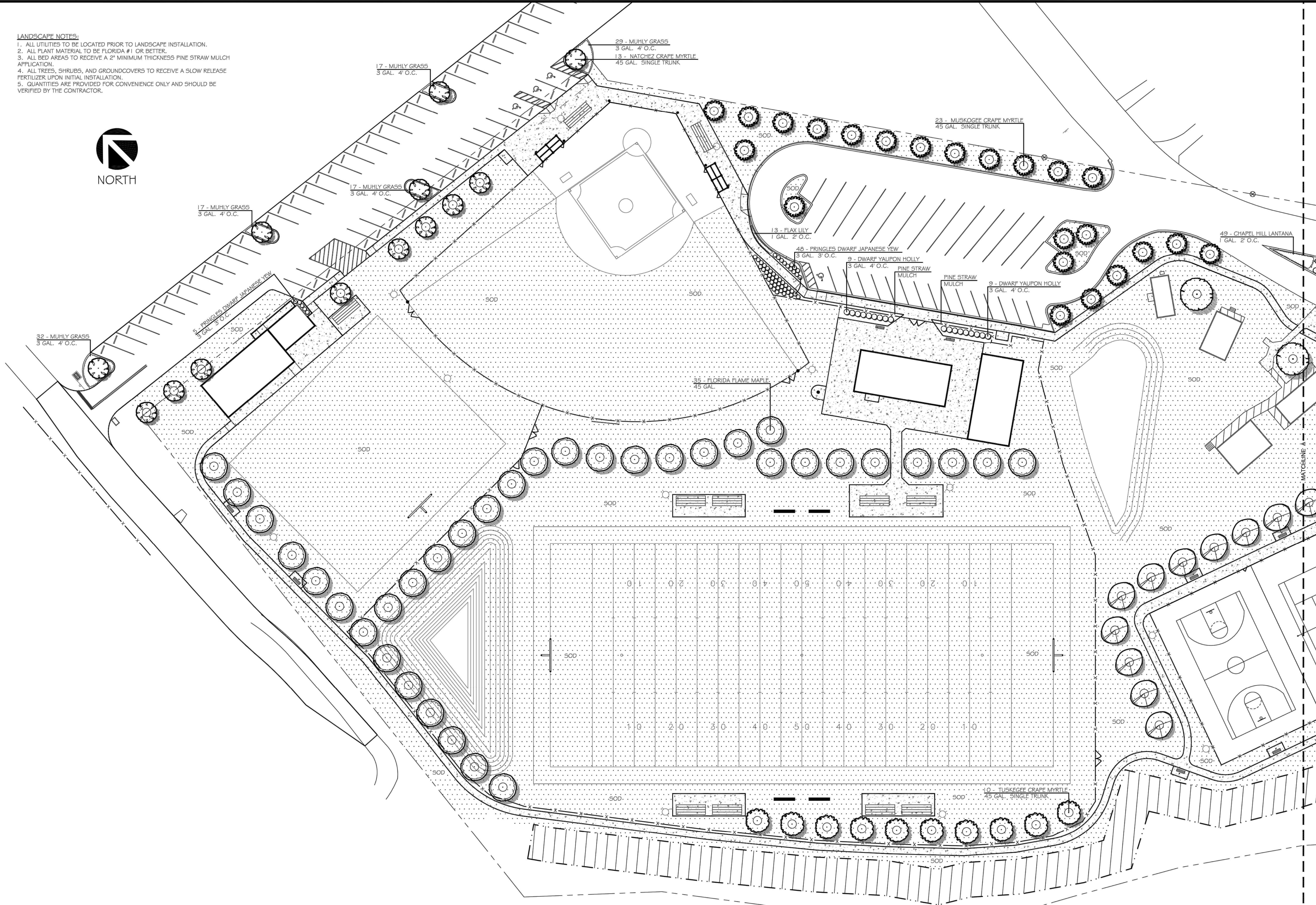
PROJECT NUMBER  
**26018**

26018 MUSCO LIGHTING DETAILS IMPROVEMENTS MUSCO LIGHTING DETAILS SHEET M2



**LANDSCAPE NOTES:**

1. ALL UTILITIES TO BE LOCATED PRIOR TO LANDSCAPE INSTALLATION.
2. ALL PLANT MATERIAL TO BE FLORIDA #1 OR BETTER.
3. ALL BED AREAS TO RECEIVE A 2" MINIMUM THICKNESS PINE STRAW MULCH APPLICATION.
4. ALL TREES, SHRUBS, AND GROUNDCOVERS TO RECEIVE A SLOW RELEASE FERTILIZER UPON INITIAL INSTALLATION.
5. QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY AND SHOULD BE VERIFIED BY THE CONTRACTOR.



**LANDSCAPE PLAN**  
**GORE PARK**  
CALLAWAY, FLORIDA

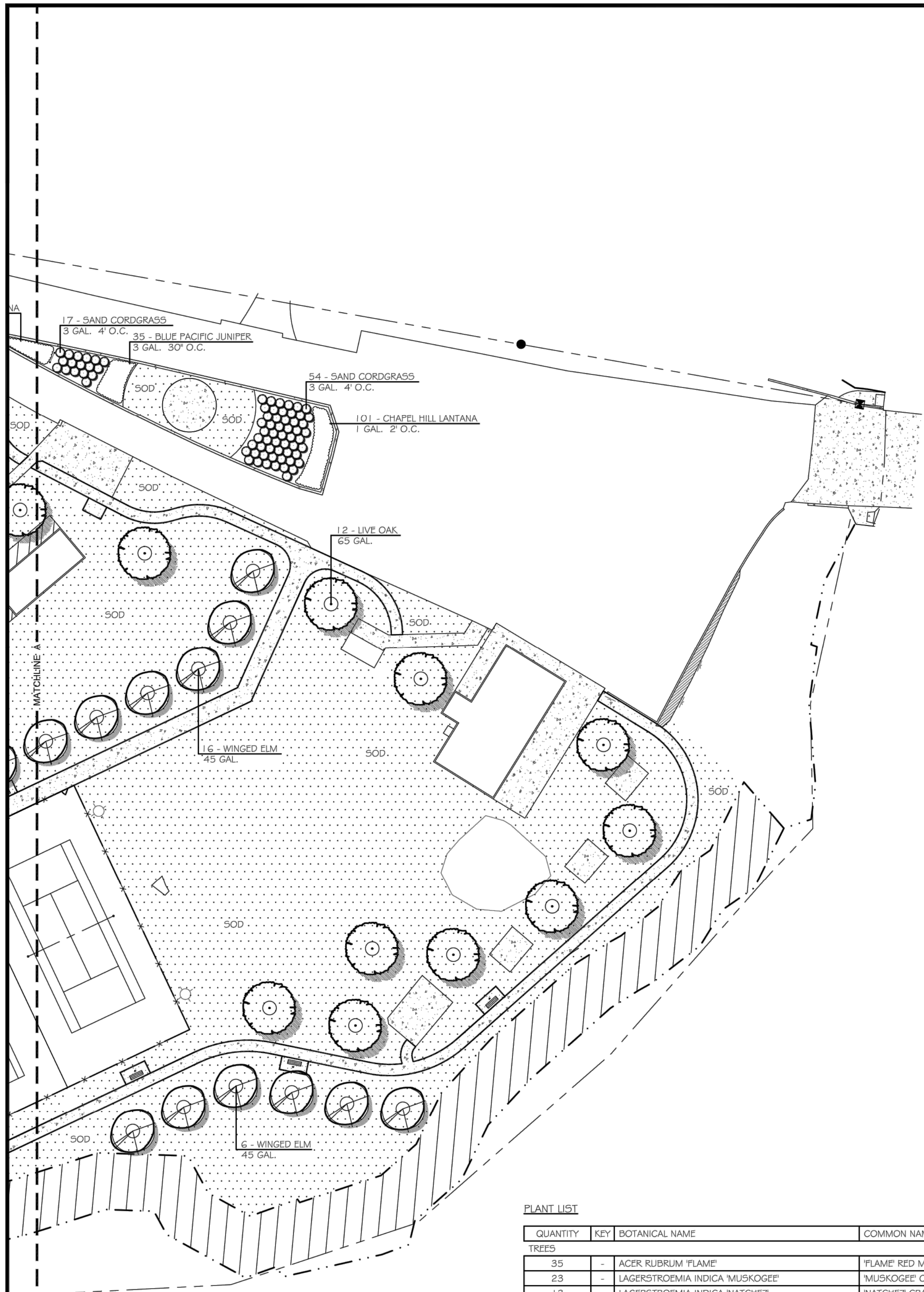
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PROJECT NUMBER:

SCALE: 1" = 30'

SHEET NUMBER  
**L1**  
OF FOUR

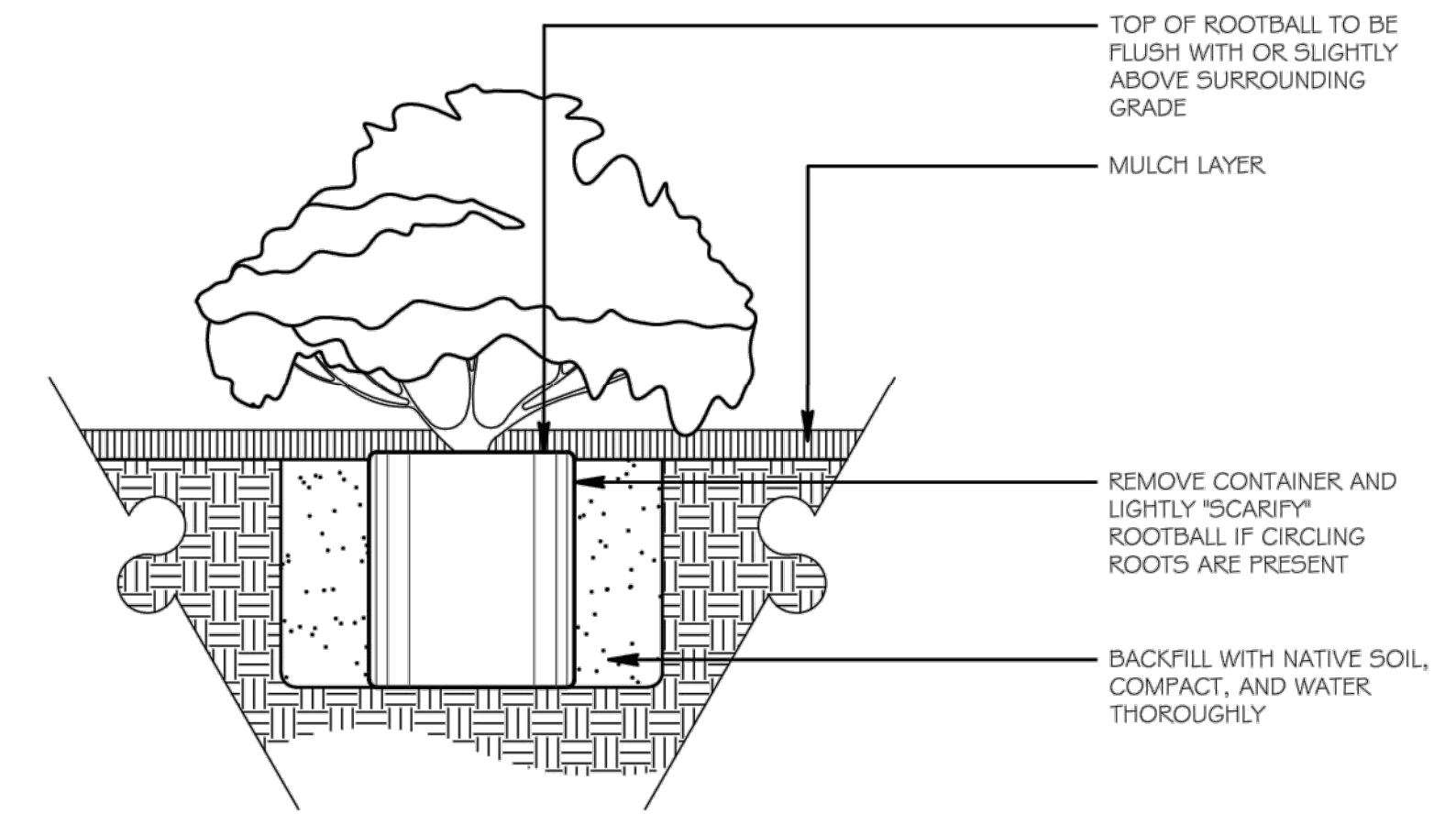


**PLANT LIST**

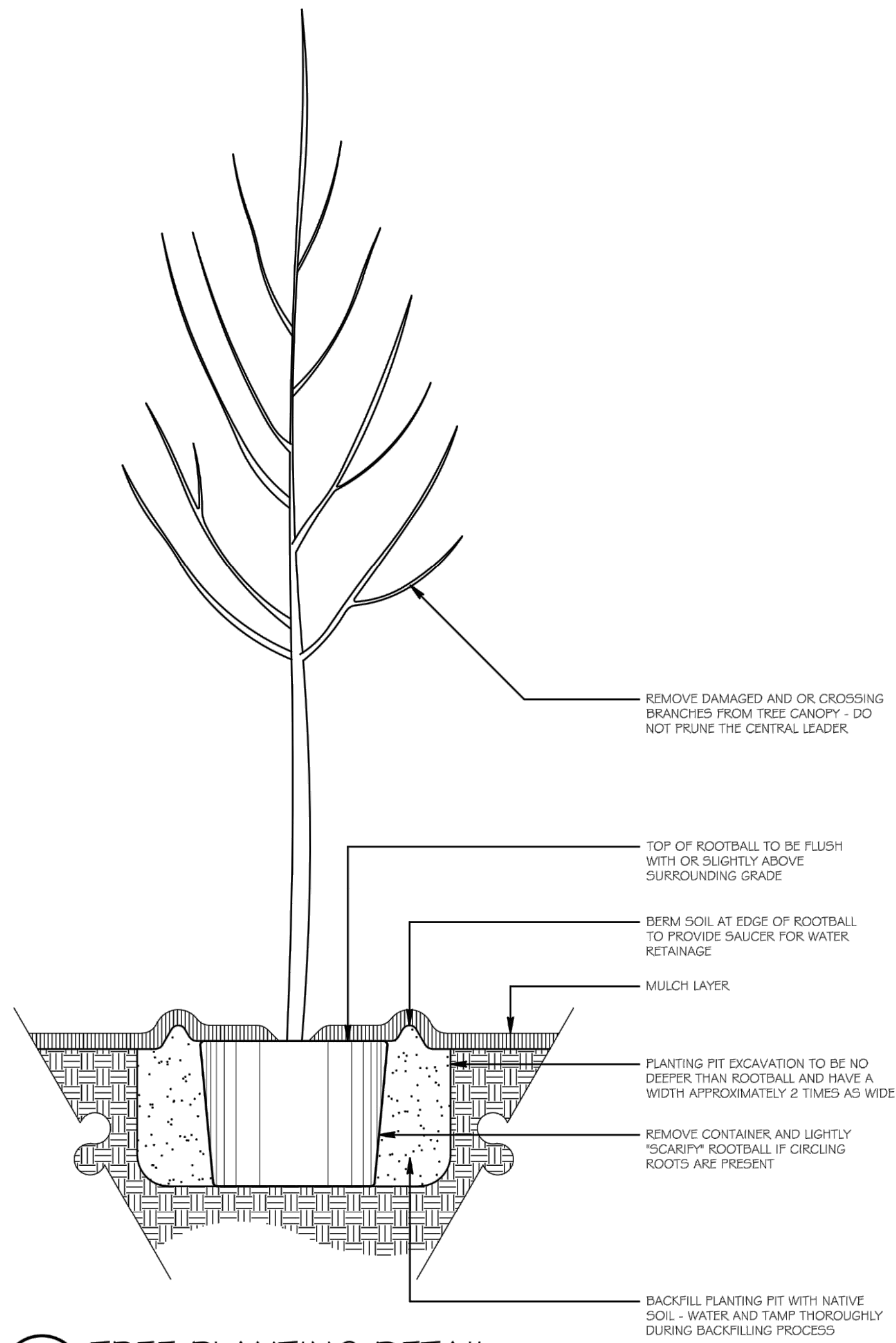
QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	HEIGHT	SPACING	REMARKS
<b>TREES</b>							
35	-	ACER RUBRUM 'FLAME'	'FLAME' RED MAPLE	45 GAL.	14'-16'	AS SHOWN	-
23	-	LAGERSTROEMIA INDICA 'MUSKOGEE'	'MUSKOGEE' CRAPE MYRTLE	45 GAL.	11'-13'	AS SHOWN	SINGLE TRUNK
13	-	LAGERSTROEMIA INDICA 'NATCHEZ'	'NATCHEZ' CRAPE MYRTLE	45 GAL.	11'-13'	AS SHOWN	SINGLE TRUNK
10	-	LAGERSTROEMIA INDICA 'TUSKEGEE'	'TUSKEGEE' CRAPE MYRTLE	45 GAL.	11'-13'	AS SHOWN	SINGLE TRUNK
12	-	QUERCUS VIRGINIANA	LIVE OAK	65 GAL.	13'-15'	AS SHOWN	-
22	-	ULMUS ALATA	WINGED ELM	45 GAL.	10'-12'	AS SHOWN	-
<b>SHRUBS</b>							
18	-	ILEX VOMITORIA 'NANA'	DWARF 'YAUPON' HOLLY	3 GAL.	10"	4' O.C.	-
53	-	PODOCARPUS MACROPHYLLUS 'FRINGLE'S DWARF'	'FRINGLE'S DWARF' JAPANESE YEW	3 GAL.	18"	3' O.C.	-
<b>GROUNDCOVER</b>							
13	-	DIANELLA TASMANICA	FLAX LILY	1 GAL.	-	2' O.C.	-
35	-	JUNIPERUS CONFERTA 'BLUE PACIFIC'	'BLUE PACIFIC' SHORE JUNIPER	3 GAL.	-	30' O.C.	-
150	-	LANTANA 'CHAPEL HILL'	'CHAPEL HILL' LANTANA	1 GAL.	-	2' O.C.	-
112	-	MUHLENBERGIA CAPILLARIS	MUHLN GRASS	3 GAL.	-	4' O.C.	-
71	-	SPARTINA BAKERI	SAND CORDGRASS	3 GAL.	-	4' O.C.	-
<b>SOD</b>							
322,000 SF	-	TIFTUF BERMUDA SOD					

**LANDSCAPE NOTES:**

1. ALL UTILITIES TO BE LOCATED PRIOR TO LANDSCAPE INSTALLATION.
2. ALL PLANT MATERIAL TO BE FLORIDA #1 OR BETTER.
3. ALL BED AREAS TO RECEIVE A 2" MINIMUM THICKNESS PINE STRAW MULCH APPLICATION.
4. ALL TREES, SHRUBS, AND GROUNDCOVERS TO RECEIVE A SLOW RELEASE FERTILIZER UPON INITIAL INSTALLATION.
5. QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY AND SHOULD BE VERIFIED BY THE CONTRACTOR.



**1 CONTAINER SHRUB PLANTING**  
NOT TO SCALE



**2 TREE PLANTING DETAIL**  
NOT TO SCALE



LANDSCAPE PLAN  
**GORE PARK**  
CALLAWAY, FLORIDA

NO.	DATE	INITIALS	REVISION DESCRIPTION
01	07/01/20		CLIENT REVIEW
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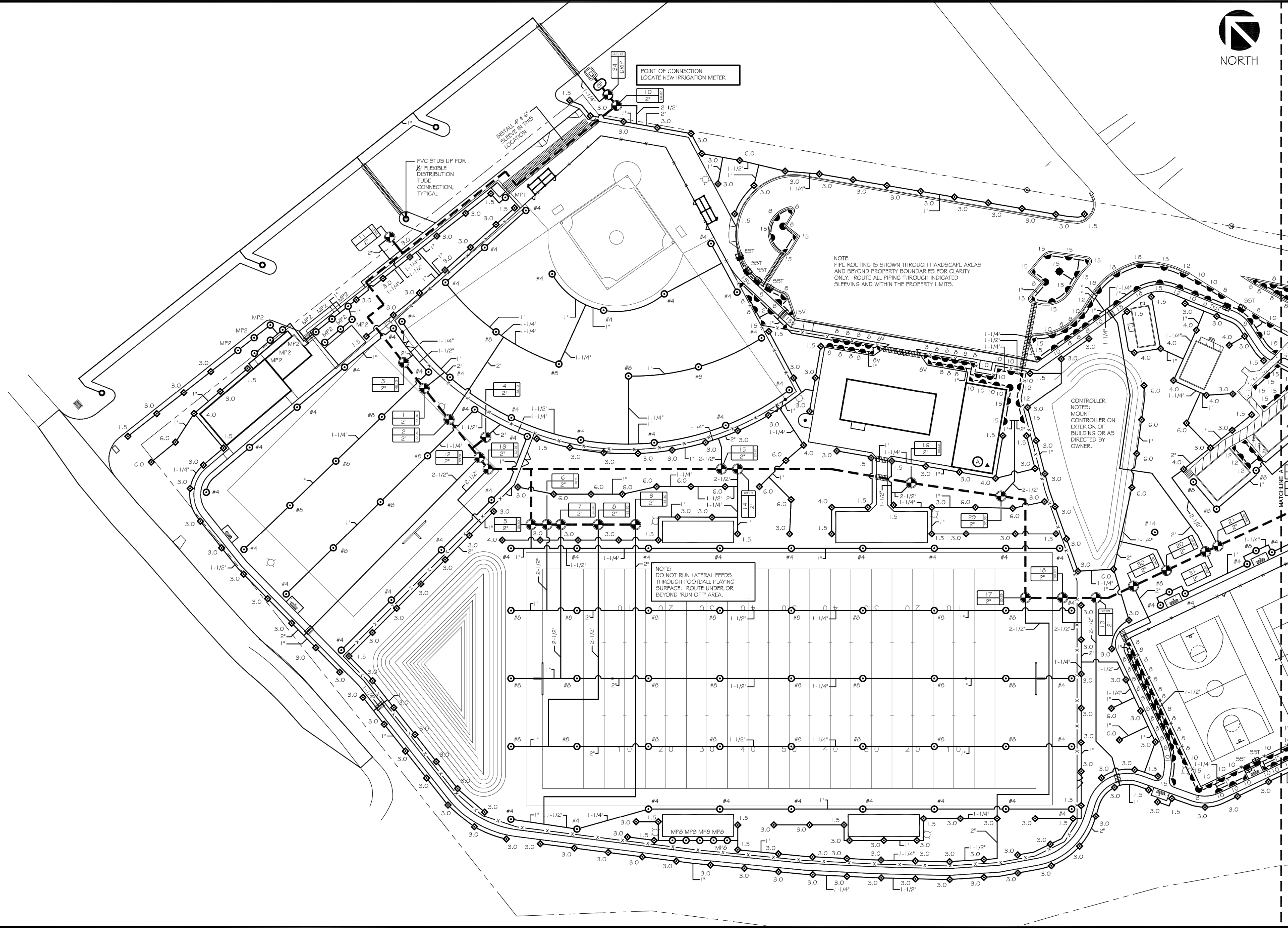
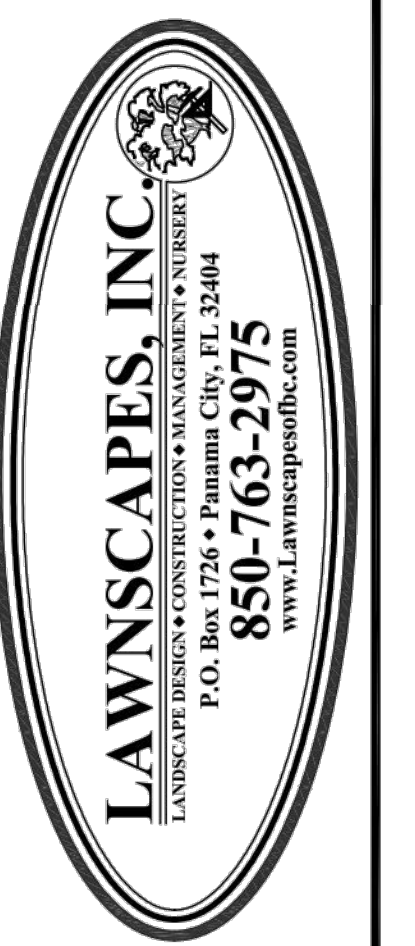
PROJECT NUMBER:

SCALE: 1" = 30'

SHEET NUMBER

**L2**  
OF FOUR





POINT OF CONNECTION  
LOCATE NEW IRRIGATION METER.

PVC STUB UP FOR  
FLEXIBLE  
DISTRIBUTION  
TUBE  
CONNECTION,  
TYPICAL.

INSTALL 4" x 6"  
SLEEVE IN THIS  
LOCATION

NOTE:  
PIPE ROUTING IS SHOWN THROUGH HARDSCAPE AREAS  
AND BEYOND PROPERTY BOUNDARIES FOR CLARITY  
ONLY. ROUTE ALL PIPING THROUGH INDICATED  
SLEEVING AND WITHIN THE PROPERTY LIMITS.

CONTROLLER NOTES:  
MOUNT  
CONTROLLER ON  
EXTERIOR OF  
BUILDING OR AS  
DIRECTED BY  
OWNER.

NOTE:  
DO NOT RUN LATERAL FEEDS  
THROUGH FOOTBALL PLAYING  
SURFACE. ROUTE UNDER OR  
BEYOND "RUN OFF" AREA.

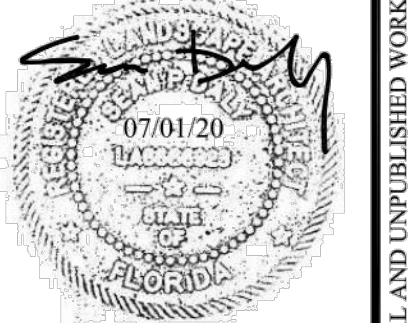
IRRIGATION PLAN

GORE  
PARK

CALLAWAY, FLORIDA

NO.	DATE	INITIALS	REVISION DESCRIPTION
01	07/01/20		CLIENT REVIEW
02			
03			
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FLORIDA LANDSCAPE ARCHITECT #66662  
SEAN P. DALY



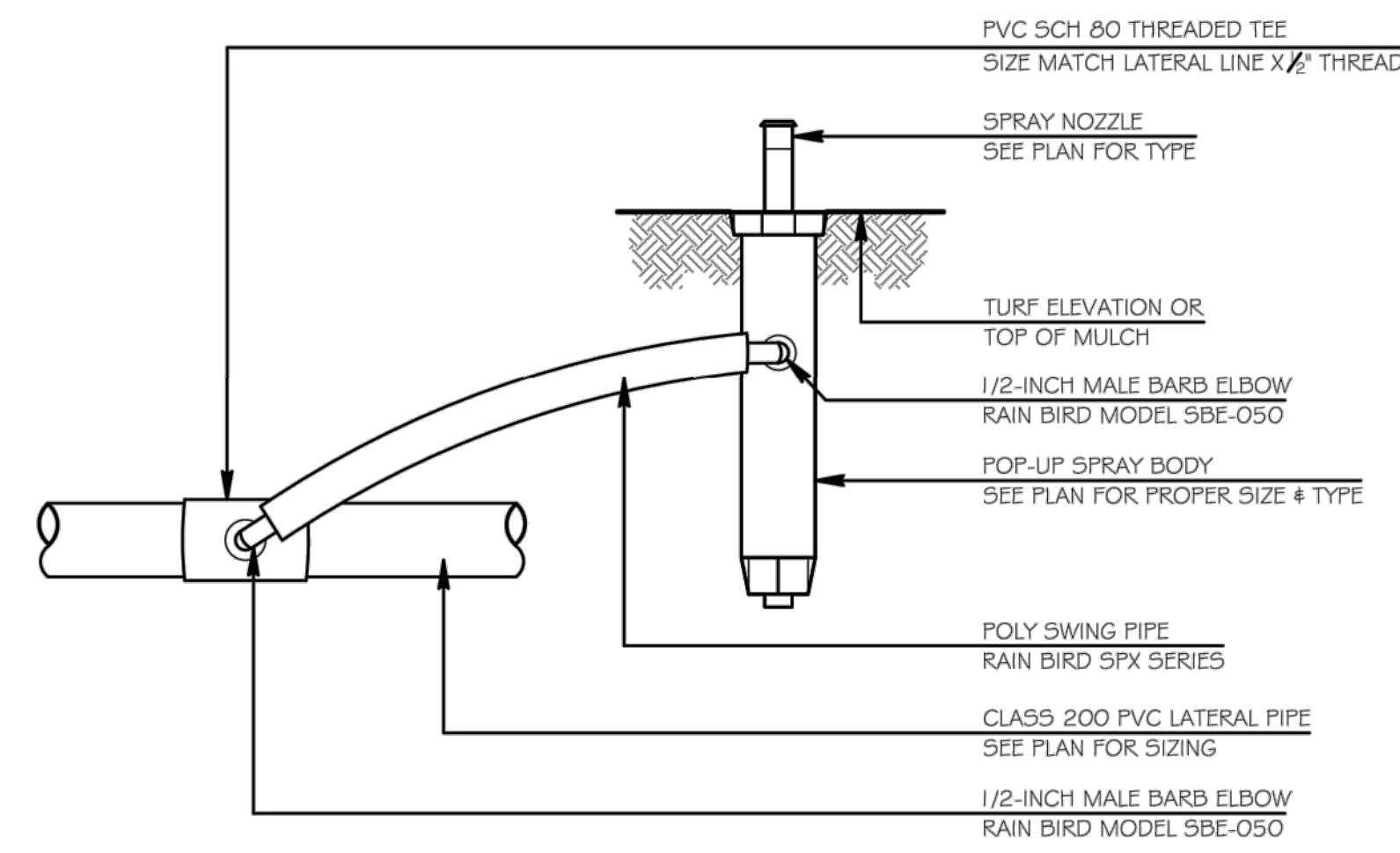
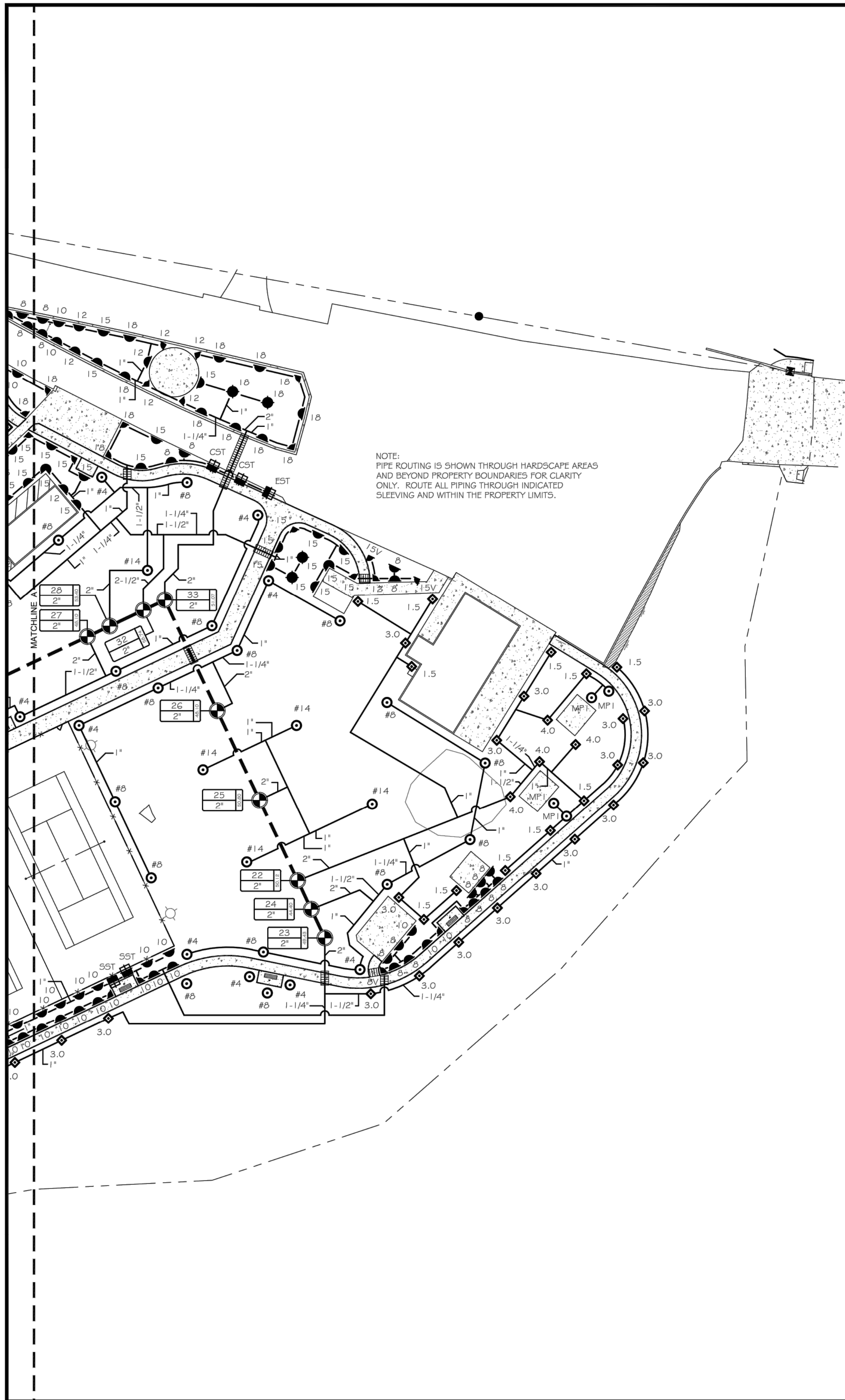
PROJECT NUMBER:

SCALE:  
1" = 30'

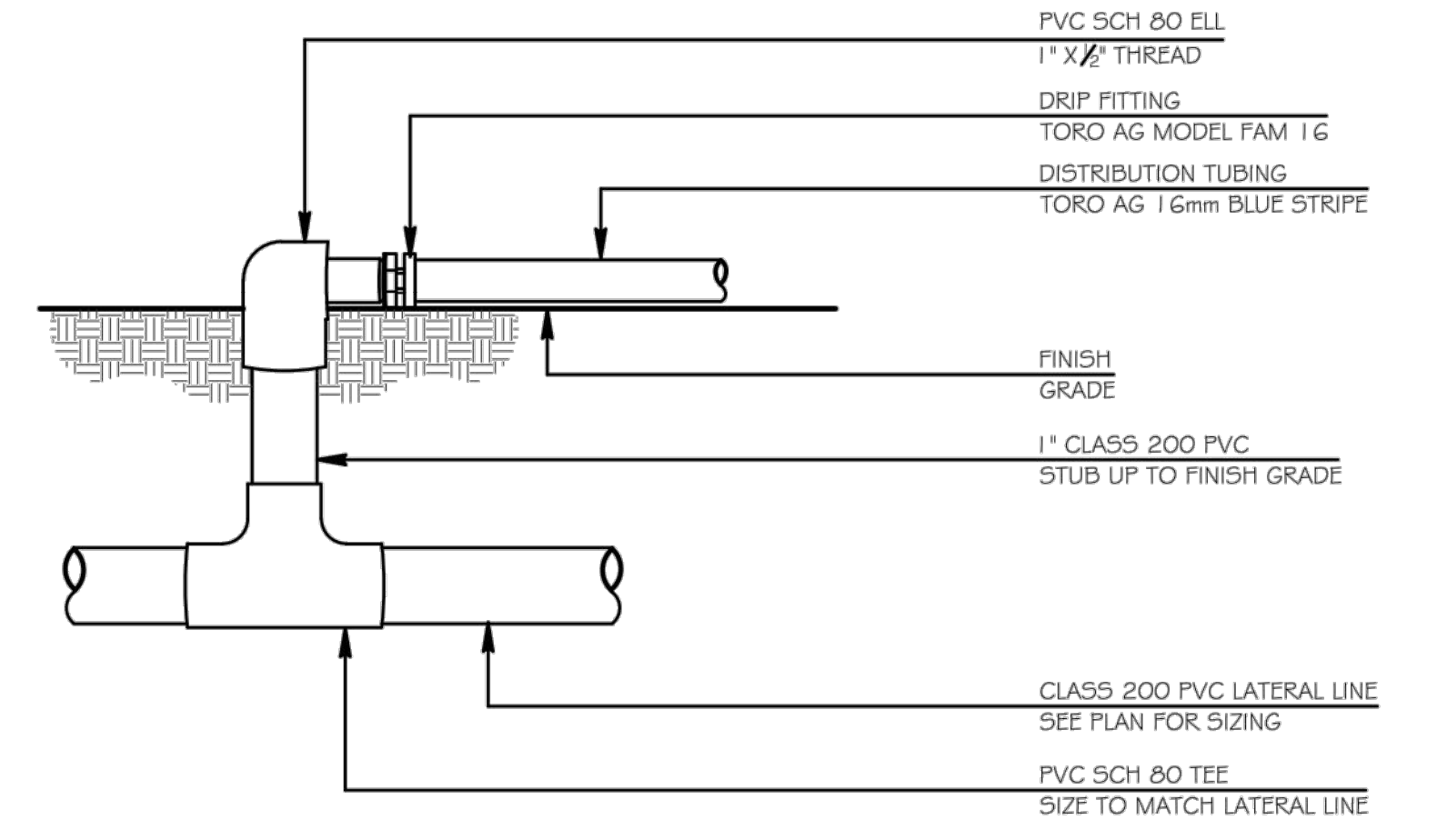
SHEET NUMBER

L3

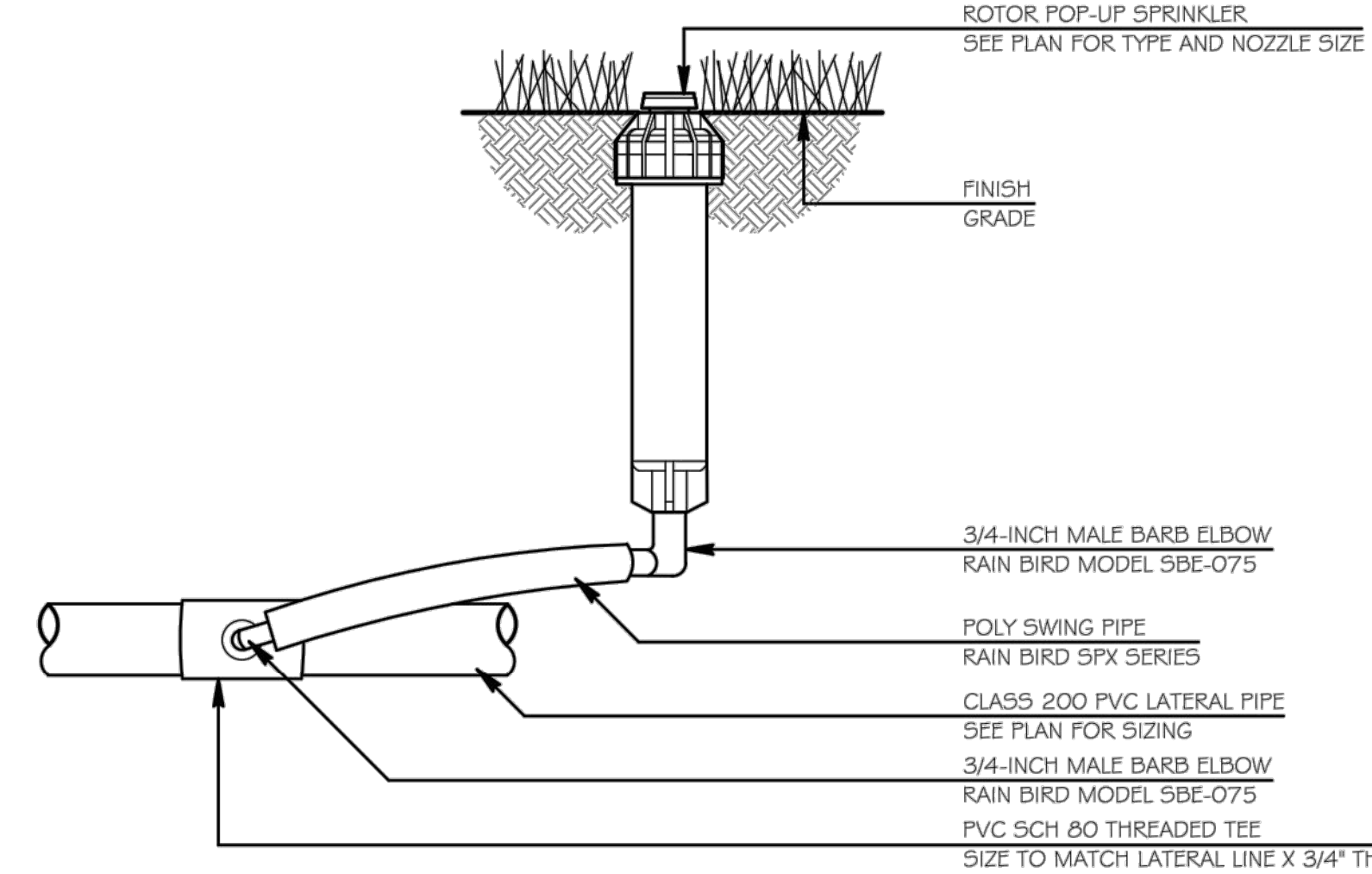
DESIGN BY:  
CHECKED BY:  
OF FOUR



1 SPRAYHEAD INSTALLATION  
L4 NOT TO SCALE



2 DRIP DISTRIBUTION LINE CONNECTION  
L4 NOT TO SCALE



3 POP-UP ROTOR INSTALLATION  
L4 NOT TO SCALE

GENERAL IRRIGATION NOTES:

1. ALL UTILITIES TO BE LOCATED BEFORE COMMENCEMENT OF CONSTRUCTION. APPLY NECESSARY PROTECTIVE MEASURES TO REDUCE POSSIBILITY OF DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION.
2. ALL CONTROL WIRE TO BE 14 GAUGE. INSTALL ONE (1) RED WIRE TO EACH CONTROL VALVE, ONE (1) COMMON WHITE TO LOOP CONTINUOUSLY THROUGHOUT THE WIRE PATH, AND ONE (1) EXTRA BLUE WIRE TO RUN PARALLEL WITH COMMON.
3. ALL LATERAL LINES TO MAINTAIN A 6" MINIMUM DEPTH. ALL MAINLINE TO MAINTAIN A MINIMUM 12" DEPTH.
4. ALL SPRAYS AND ROTORS TO BE MOUNTED FLUSH WITH FINAL GRADE.
5. ALL WATERING ARCS TO BE ADJUSTED TO PREVENT OVERSPRAY ONTO ADJACENT BUILDINGS OR HARDSCAPE.

SYSTEM DESIGN NOTES:

WATER SOURCE: 2" IRRIGATION METER  
DESIGN VOLUME: 65 GPM  
DESIGN PRESSURE: 65 PSI

DRIP IRRIGATION NOTES:

REFERENCE THE FOLLOWING TABLE FOR DRIP EMITTER INSTALLATION PER PLANT:

PLANT SIZE	EMITTER QTY/FLOW
1 GAL. OR LESS	1 @ 0.5 GPH
3 GAL.	1 @ 2.0 GPH
7 - 15 GAL.	2 @ 5.0 GPH
30 GAL. & LARGER	3 @ 5.0 GPH
PALMS	3 @ 10.0 GPH

\*XERI-SPRAYS MAY BE USED TO IRRIGATE ANNUAL PLANTING AREAS

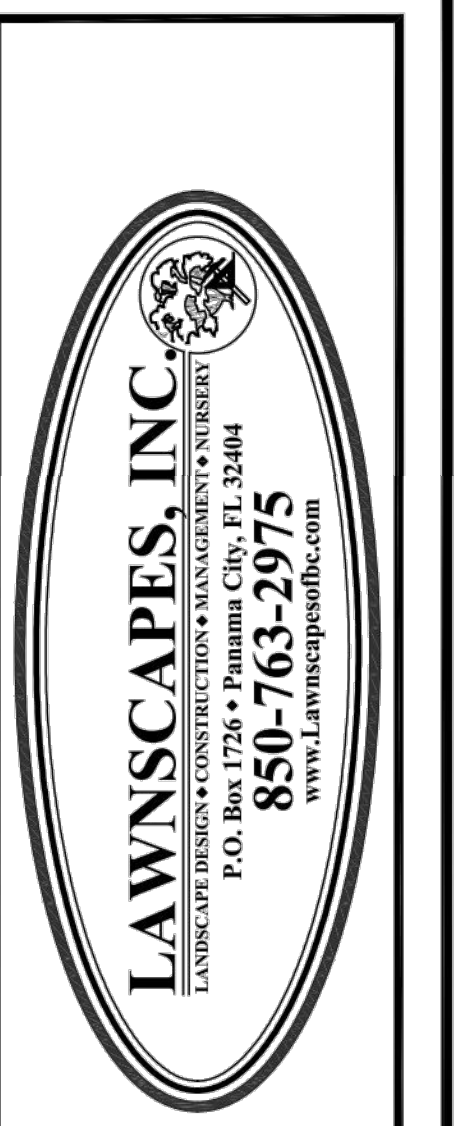
PIPING LEGEND

- 3" - CLASS 200 MAINLINE
- CLASS 200 LATERAL (SIZE AS NOTED)
- 4" SCH. 40 SLEEVE (UNLESS OTHERWISE NOTED)
- CONTROL VALVE IDENTIFICATION TAG



IRRIGATION SCHEDULE

QUANTITY	SYMBOL	SIZE / DESC.	DESCRIPTION	MANUFACTURER
6	▲	8	1804-8Q	RAINBIRD
70	▲	8	1804-8H	RAINBIRD
3	▲	8	1804-8VAN	RAINBIRD
4	▲	8V	1804-8VAN	RAINBIRD
8	▲	10	1804-10Q	RAINBIRD
39	▲	10	1804-10H	RAINBIRD
1	▲	10	1804-10VAN	RAINBIRD
7	▲	12	1804-12Q	RAINBIRD
14	▲	12	1804-12H	RAINBIRD
14	▲	15	1804-15Q	RAINBIRD
28	▲	15	1804-15H	RAINBIRD
2	▲	15	1804-15TQ	RAINBIRD
3	▲	15	1804-15F	RAINBIRD
5	▲	15V	1804-15VAN	RAINBIRD
6	▲	18	1804-18Q	RAINBIRD
13	▲	18	1804-18H	RAINBIRD
2	▲	18	1804-18F	RAINBIRD
2	■	CST	1804-15CST	RAINBIRD
2	■	EST	1804-15EST	RAINBIRD
9	■	SST	1804-15SST	RAINBIRD
63	○	#4	F4-PC WITH #4 NOZZLE ON 1" PVC SWING JOINT	RAINBIRD
55	○	#8	F4-PC WITH #8 NOZZLE ON 1" PVC SWING JOINT	RAINBIRD
6	○	#14	F4-PC WITH #14 NOZZLE ON 1" PVC SWING JOINT	RAINBIRD
5	○	MP1	1804-MP1000	RAINBIRD/HUNTER
12	○	MP2	1804-MP2000	RAINBIRD/HUNTER
5	○	MP8	1804-MP800	RAINBIRD/HUNTER
51	◇	1.5	5004-PC W/ 1.5 NOZZLE	RAINBIRD
169	◇	3.0	5004-PC W/ 3.0 NOZZLE	RAINBIRD
16	◇	4.0	5004-PC W/ 4.0 NOZZLE	RAINBIRD
22	◇	6.0	5004-PC W/ 6.0 NOZZLE	RAINBIRD
33	⊙	2"	2" CONTROL VALVE 200-PGA	RAINBIRD
1	⊙	DRIP	1" DRIP VALVE KIT KCZ-100	RAINBIRD
1	⊙	-	36 STATION CONTROLLER ESP-LXBASIC	RAINBIRD
1	▲	-	RAIN SENSOR MINI-CLIK	HUNTER
1	⊙	-	3" BACKFLOW PREVENTER REDUCED PRESSURE ZONE	FEBCO OR WATTS



IRRIGATION PLAN  
GORE PARK  
CALLAWAY, FLORIDA

NO.	DATE	INITIALS	REVISION DESCRIPTION
01	07/01/20		CLIENT REVIEW
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PROJECT NUMBER:  
SCALE: 1" = 30'  
SHEET NUMBER  
L4  
OF FOUR