

FINAL SITE PLAN / CONSTRUCTION PLANS FOR

# BLACKSTONE PARK EXPANSION

PART OF SECTION 11, TOWNSHIP 34 SOUTH, RANGE 17 EAST,  
CITY OF PALMETTO  
MANATEE COUNTY, FLORIDA

A PROJECT BY

## MANATEE BOARD OF COUNTY COMMISSIONERS

1112 MANATEE AVENUE, SUITE 803  
BRADENTON, FLORIDA 34205  
PHONE: (941) 748-4501

### NOTES

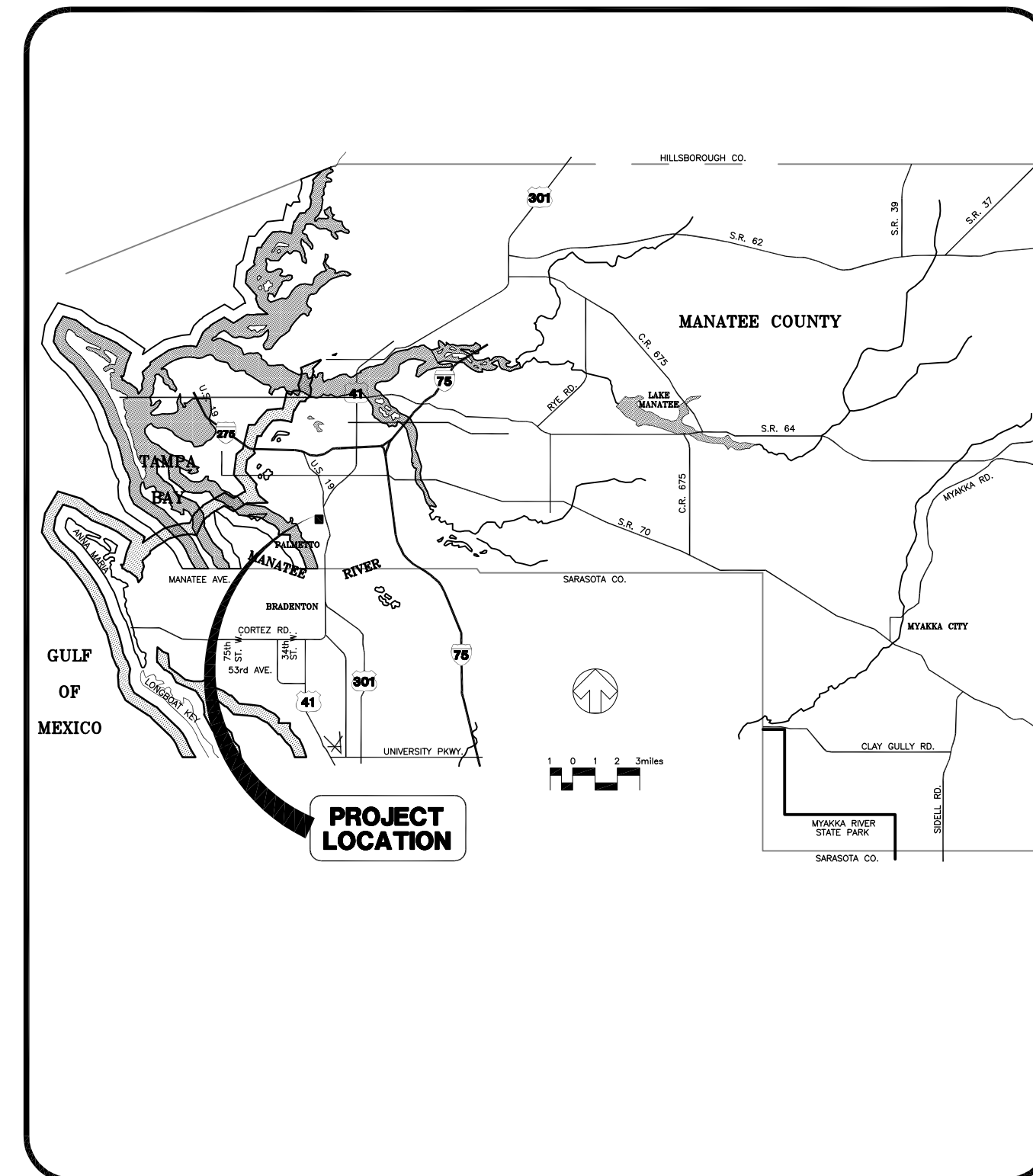
- TOTAL PROPERTY BOUNDARY AREA: 31.09± AC
- TOTAL SWFWMD ERP PROJECT AREA = 9.92± AC
- BOUNDARY DATA SHOWN IS FOR INFORMATIONAL PURPOSES ONLY AND DOES NOT CONSTITUTE A BOUNDARY SURVEY.
- THE PROJECT WILL CONSIST OF A PUBLIC RECREATIONAL/PARK FACILITY.
- PRESENT ZONING IS PUBLIC (P). THE EXISTING LAND USE IS VACANT/RECREATIONAL.
- THE PROJECT IS 100% OPEN SPACE/RECREATIONAL.
- THERE ARE NO WETLANDS OR OTHER SURFACE WATERS LOCATED WITHIN THE PROJECT AREA.
- PROJECT IS LOCATED WITHIN FLOOD ZONE B AS PER LATEST FEMA FIRM. COMM. PANEL NO. 120153/0187B, REVISED (EFFECTIVE 3/15/84).
- THERE ARE NO PERENNIAL STREAMS ON OR ADJACENT TO THE PROJECT SITE.
- DRAINAGE AND UTILITY EASEMENTS WILL BE PROVIDED AS REQUIRED BY THE CITY OF PALMETTO.
- THERE ARE NO KNOWN EXISTING PLANTS AND/OR HISTORIC SITES ON THIS SITE. ALL EXISTING BUILDINGS ARE SHOWN ON THE SITE PLAN.
- THERE ARE NO KNOWN EXISTING COVENANTS OR DEED RESTRICTIONS WHICH WOULD AT THIS TIME AFFECT THE PROPOSED DEVELOPMENT.
- THE STORMWATER MANAGEMENT SYSTEM FOR THIS DEVELOPMENT WILL BE MAINTAINED BY MANATEE COUNTY.
- CONSTRUCTION SCHEDULE:  
APPROXIMATE START DATE: APRIL 2013  
APPROXIMATE END DATE: APRIL 2016
- TOPOGRAPHY IS COMPILED FROM FIELD INFORMATION OBTAINED BY ZOLLER, NAJJAR, & SHROYER, L.C. ALL EXISTING AND PROPOSED ELEVATIONS ARE IN NATIONAL GEODETIC VERTICAL DATUM (1929).
- PROPOSED GROSS FLOOR AREA OF CONCESSION BUILDING = 2,030 S.F.  
PROPOSED ADDITIONAL GROSS FLOOR AREA RATIO 2,030 S.F./1,354,193 S.F. = 0.0015  
MAXIMUM PROPOSED CONCESSION BUILDING HEIGHT = 26'-0" (2 STORIES)
- ALL COMMON IMPROVEMENTS AND OPEN SPACE WITHIN THE SITE WILL BE MAINTAINED BY MANATEE COUNTY.
- THE STORMWATER MANAGEMENT SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH CHAPTER 62-343 F.A.C. REQUIREMENTS.
- PARKING SPACE CALCULATIONS:  
MAXIMUM SEATING CAPACITY OF BLEACHERS = 50 SEATS (ESTIMATED)  
TOTAL NUMBER OF BLEACHERS = 6 (2 BLEACHERS PER BALL FIELD)  
MAXIMUM SEATING CAPACITY PROPOSED = 300 SEATS  
PARKING SPACES REQUIRED = 1 PARKING SPACE PER 3 SEATS FOR PUBLIC ASSEMBLY = 100 PARKING SPACES REQUIRED  
  
PARKING SPACES PROVIDED = 150 PARKING SPACES (INCLUDES 6 HANDICAP SPACES)
- ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE IN PLACE PRIOR TO CONSTRUCTION ACTIVITIES.
- ALL EXISTING FEATURES ARE LABELED AS EXISTING ON THE SITE PLAN SHEETS. ALL OTHER FEATURES NOT LABELED EXISTING, ARE PROPOSED.
- ALL PROPOSED SETBACKS AND BUFFERS ARE SHOWN ON THE SITE PLAN.
- ALL TRAFFIC CONTROL SIGNAGE AND PAVEMENT MARKINGS, SHALL CONFORM TO FDOT AND MUTCD STANDARDS.
- SOLID WASTE WILL BE STORED IN A DUMPSTER ENCLOSURE ON-SITE AND COLLECTED BY THE CITY OF PALMETTO.

### INDEX TO SHEETS - SITE WORK PLANS

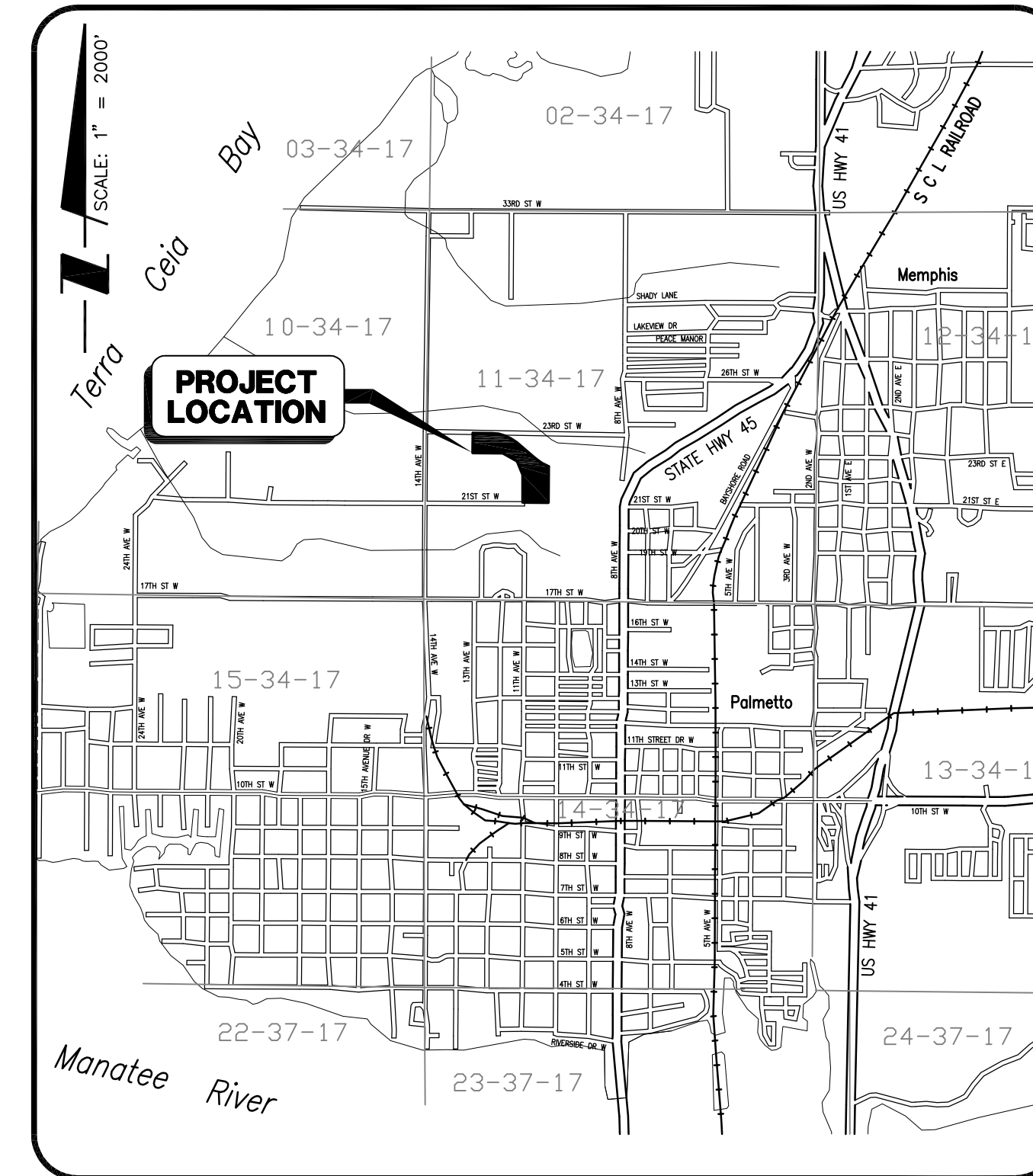
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	AERIAL LOCATION MAP
3	MASTER SITE PLAN AND KEY SHEET
4	SITE PLAN - NORTH
5	SITE PLAN - SOUTH
6	PAVING AND DRAINAGE PLAN - NORTH
7	PAVING AND DRAINAGE PLAN - SOUTH
8	DRY RETENTION AREA PLAN
9	TYPICAL SECTIONS AND CONSTRUCTION DETAILS
10	PAVING DETAILS
11	DRAINAGE DETAILS
12	DRAINAGE DETAILS
13	CROSS SECTIONS
14	TYPICAL BALL FIELD PLAN
15	DUGOUT AND BLEACHER DETAILS
16	BALL FIELD FENCING PLAN
17	BALL FIELD FENCING, NETTING, AND BATTING CAGE DETAILS
18	BEST MANAGEMENT PRACTICES PLAN
19	BEST MANAGEMENT PRACTICES DETAILS
1 OF 1	CONCRETE AND PAVER SURFACING PLAN AND DETAILS
LP-101	LANDSCAPE PLANTING PLAN - NORTHWEST
LP-102	LANDSCAPE PLANTING PLAN - SOUTHEAST
LP-401	LANDSCAPE MATERIALS/SURFACES PLAN
LP-501	LANDSCAPE PLANTING DETAILS
LP-601	LANDSCAPE PLANTING NOTES
LI-101	LANDSCAPE IRRIGATION PLAN - NORTHWEST
LI-102	LANDSCAPE IRRIGATION PLAN - SOUTHEAST
LI-501	LANDSCAPE IRRIGATION DETAILS
LI-502	LANDSCAPE IRRIGATION DETAILS
LI-601	LANDSCAPE IRRIGATION NOTES
DP-601	DENOTES SHEETS SUBMITTED TO SWFWMD

### INDEX TO SHEETS - CONCESSION BUILDING PLANS

SHEET NO.	DESCRIPTION
COVER SHEET	
A0.0	REFERENCE SHEET & CODE DATA
A2.1	FIRST FLOOR PLAN, ENLARGED PLAN AND TOILET ACCESSORIES SCHEDULE, SECOND FLOOR PLAN, FIRST FLOOR REFLECTED CEILING PLAN, SECOND FLOOR REFLECTED CEILING PLAN, ROOF PLAN AND LEGENDS
A3.1	FINISH SCHEDULE, OPENING SCHEDULE, SIGNAGE SCHEDULE, DOOR AND FRAME ELEVATIONS, SIGNAGE DETAILS AND OPENING DETAILS
A5.1	ELEVATIONS AND BUILDING SECTIONS
A6.1	WALL SECTIONS
A9.1	ROOF DETAILS AND PRODUCT APPROVAL SCHEDULE
S1.00	STRUCTURAL SPECIFICATIONS, LEGEND AND ABBREVIATIONS
S1.01	COMPONENTS AND CLADDING
S1.02	STRUCTURAL DETAILS
S2.00	FOUNDATION PLAN
S3.00	2ND FLOOR FRAMING PLAN
S4.00	HIGH ROOF FRAMING PLAN
S5.00	SECTIONS AND DETAILS
MPE-1	MECHANICAL, PLUMBING, AND ELECTRICAL SPECIFICATIONS
M-1	MECHANICAL PLAN - FIRST & SECOND FLOORS
M-2	MECHANICAL NOTES, DETAILS & SCHEDULES
E-1	ELECTRICAL POWER & LIGHTING PLAN - FIRST FLOOR
E-2	ELECTRICAL POWER & LIGHTING PLAN - SECOND FLOOR
ES-1	ELECTRICAL SITE PLAN
P-1	PLUMBING PLAN - FIRST & SECOND FLOORS
P-2	PLUMBING NOTES, DETAILS & SCHEDULES
FP-1	FIRE PROTECTION PLANS AND SITE PLAN
FP-2	FIRE PROTECTION NOTES, DETAILS & SCHEDULES



LOCATION MAP



SITE MAP



6900 Professional Parkway East, Sarasota, FL 34240

Phone 941-907-6900 • Fax 941-907-6910

Certificate of Authorization #43 • FL Lic. # LC-C000170 • www.stantec.com

### STATUS : REVISIONS

PROJECT MANAGER J. MICHAEL BELL, P.E. FLORIDA LICENSE NO. 40874	ENGINEER TECHNICIAN CARLOS L. LUGO	PROJECT ENGINEER DANIEL J. BOND, P.E. FLORIDA LICENSE NO. 57969
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DRC Member	OK	Signature	Date
Deputy Director of Operations			
City Planner			
Fire Marshall			
City Engineer			
DRC Coordinator			

Stipulations	Yes	No
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Director of Public Works	Signature	Date
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PROJECT NUMBER  
**215611237 210**

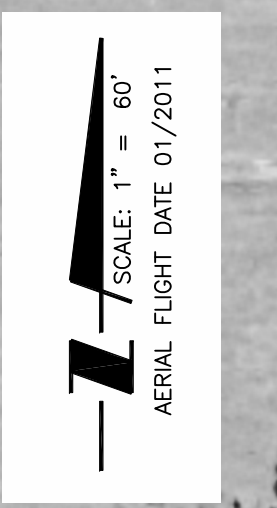
DATE  
**DECEMBER 2012**

INDEX NUMBER  
**D-215611237-001**

ZONING A-1 (MANATEE COUNTY)  
EXISTING LAND USE: VACANT/AGRICULTURAL

EXISTING 23RD STREET WEST  
100' PUBLIC RIGHT-OF-WAY

EXISTING LAKE



ZONING PD-H  
EXISTING LAND USE: PLANNED DEVELOPMENT  
RESIDENTIAL/GOLF COURSE

EXISTING 14TH AVENUE WEST  
PUBLIC RIGHT-OF-WAY

EXISTING RIGHT-OF-WAY/  
PROPERTY LINE

SWFWMD ERP  
PROJECT AREA (TYP)

DRY RETENTION AREA

SWFWMD ERP  
PROJECT AREA (TYP)

8' LANDSCAPE BUFFER

EXISTING RIGHT-OF-WAY/  
PROPERTY LINE

ZONING P  
EXISTING LAND USE: PUBLIC USE/RECREATIONAL

EXISTING BALL FIELD

EXISTING BALL FIELD

BALL FIELD #1

EXISTING SOCCER FIELDS

CONCESSION  
BUILDING

PROPERTY LINE

EXISTING RIGHT-OF-WAY/  
PROPERTY LINE

EXISTING RESTROOM  
BUILDING

BALL FIELD #2

ZONING CG  
EXISTING LAND USE: VACANT/AGRICULTURAL

15'  
LANDSCAPE  
BUFFER

EXISTING PARKING AREA

PROPERTY LINE

EXISTING BALL FIELD

BALL FIELD #3

PROPERTY LINE

SWFWMD ERP  
PROJECT AREA (TYP)

BATTING CAGES (4)

ZONING P  
EXISTING LAND USE: PUBLIC USE/HIGH SCHOOL

PROPERTY LINE

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	W/M APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
						DESIGNED BY:		
						DRAWN BY:	CLL/096591	12/2012
						CHECKED BY:		
						CONTRACT ADMIN. BY:		
						W/M APPROVED BY:		

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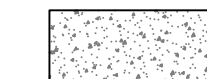

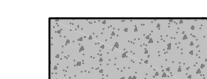

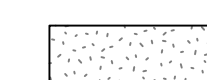

CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS  
 PROJECT: BLACKSTONE PARK EXPANSION

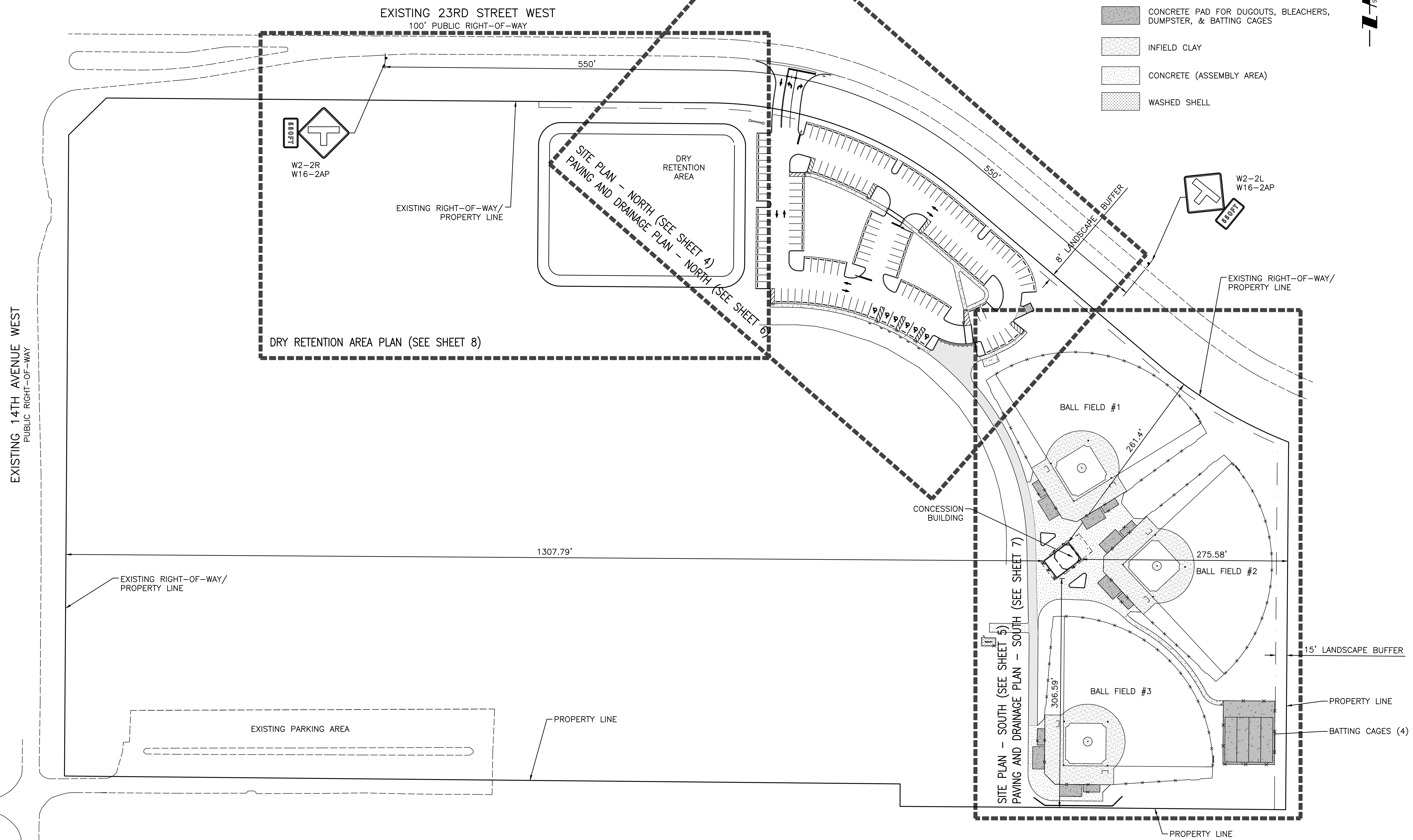
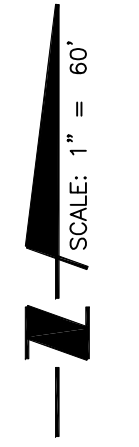
DATE: DECEMBER 2012  
 HORIZONTAL SCALE: 1" = 60'  
 VERTICAL SCALE: NA  
 SHEET: 11 OF 17

TITLE: AERIAL LOCATION MAP  
 PROJECT NUMBER: 215611237

DANIEL J. BOND, P.E.  
 FLORIDA LICENSE NO. 57969  
 INDEX NUMBER: D-215611237-002  
 SHEET NUMBER: 2 OF 19

**LEGEND**

-  CONCRETE SIDEWALK
-  CONCRETE PAVEMENT
-  CONCRETE PAD FOR DUGOUTS, BLEACHERS, DUMPSTER, & BATTING CAGES
-  INFIELD CLAY
-  CONCRETE (ASSEMBLY AREA)
-  WASHED SHELL



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	W/M APPROVED BY:

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CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS  
PROJECT: BLACKSTONE PARK EXPANSION

DATE: DECEMBER 2012  
HORIZONTAL SCALE: 1" = 60'  
VERTICAL SCALE: NA  
SHEET: 11 OF 17

TITLE: MASTER SITE PLAN AND KEY SHEET  
PROJECT NUMBER: 215611237  
CROSS REFERENCE FILE NO.:  
SHEET NUMBER: 3 OF 19

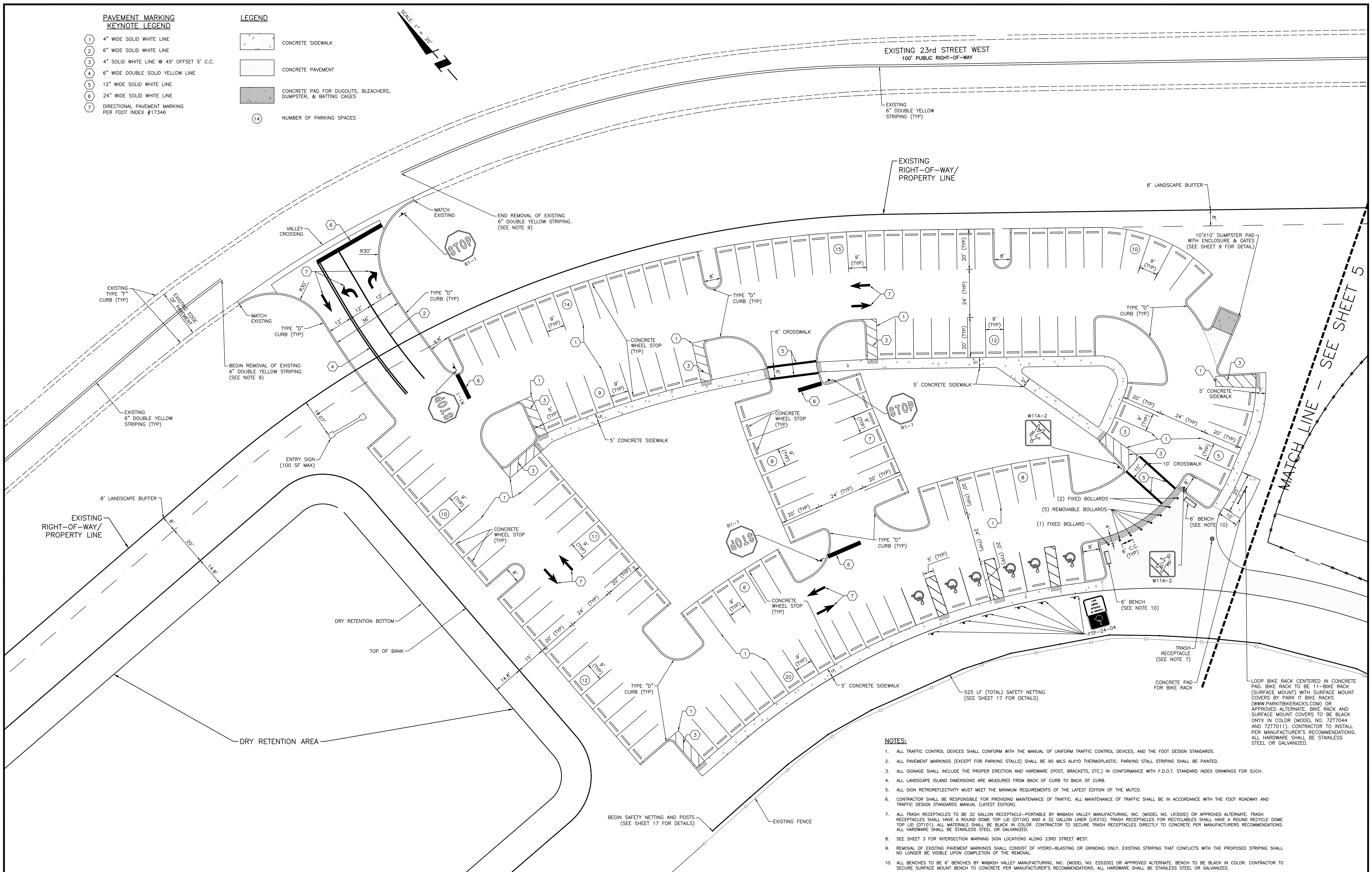
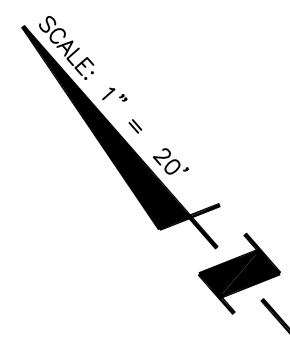
DANIEL J. BOND, P.E.  
FLORIDA LICENSE NO. 57969  
INDEX NUMBER: D-215611237-003  
SHEET NUMBER: 3 OF 19

**PAVEMENT MARKING KEYNOTE LEGEND**

- 1 4" WIDE SOLID WHITE LINE
- 2 6" WIDE SOLID WHITE LINE
- 3 4" SOLID WHITE LINE @ 45° OFFSET 5' C.C.
- 4 6" WIDE DOUBLE SOLID YELLOW LINE
- 5 12" WIDE SOLID WHITE LINE
- 6 24" WIDE SOLID WHITE LINE
- 7 DIRECTIONAL PAVEMENT MARKING PER FDOT INDEX #17346

**LEGEND**

- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- CONCRETE PAD FOR DUGOUTS, BLEACHERS, DUMPSTER, & BATTING CAGES
- 14 NUMBER OF PARKING SPACES



**NOTES:**

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND THE FDOT DESIGN STANDARDS.
2. ALL PAVEMENT MARKINGS (EXCEPT FOR PARKING STALLS) SHALL BE 90 MILS ALKYD THERMOPLASTIC. PARKING STALL STRIPING SHALL BE PAINTED.
3. ALL SIGNAGE SHALL INCLUDE THE PROPER ERECTION AND HARDWARE (POST, BRACKETS, ETC.) IN CONFORMANCE WITH F.D.O.T. STANDARD INDEX DRAWINGS FOR SUCH.
4. ALL LANDSCAPE ISLAND DIMENSIONS ARE MEASURED FROM BACK OF CURB TO BACK OF CURB.
5. ALL SIGN RETROREFLECTIVITY MUST MEET THE MINIMUM REQUIREMENTS OF THE LATEST EDITION OF THE MUTCD.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MAINTENANCE OF TRAFFIC. ALL MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS MANUAL (LATEST EDITION).
7. ALL TRASH RECEPTACLES TO BE 32 GALLON RECEPTACLE-PORTABLE BY WABASH VALLEY MANUFACTURING, INC. (MODEL NO. LR3000) OR APPROVED ALTERNATE. TRASH RECEPTACLES SHALL HAVE A ROUND DOME TOP LID (D1100) AND A 32 GALLON LINER (LR310). TRASH RECEPTACLES FOR RECYCLABLES SHALL HAVE A ROUND RECYCLE DOME TOP LID (D1101). ALL MATERIALS SHALL BE BLACK IN COLOR. CONTRACTOR TO SECURE TRASH RECEPTACLES DIRECTLY TO CONCRETE PER MANUFACTURER'S RECOMMENDATIONS. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED.
8. SEE SHEET 3 FOR INTERSECTION WARNING SIGN LOCATIONS ALONG 23RD STREET WEST.
9. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL CONSIST OF HYDRO-BLASTING OR GRINDING ONLY. EXISTING STRIPING THAT CONFLICTS WITH THE PROPOSED STRIPING SHALL NO LONGER BE VISIBLE UPON COMPLETION OF THE REMOVAL.
10. ALL BENCHES TO BE 6" BENCHES BY WABASH VALLEY MANUFACTURING, INC. (MODEL NO. ESS200) OR APPROVED ALTERNATE. BENCH TO BE BLACK IN COLOR. CONTRACTOR TO SECURE SURFACE MOUNT BENCH TO CONCRETE PER MANUFACTURER'S RECOMMENDATIONS. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED.

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						DRAWN BY:	CLL/096591	12/2012
						CHECKED BY:		
						CONTRACT ADMIN. BY:		

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CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS  
 PROJECT: BLACKSTONE PARK EXPANSION

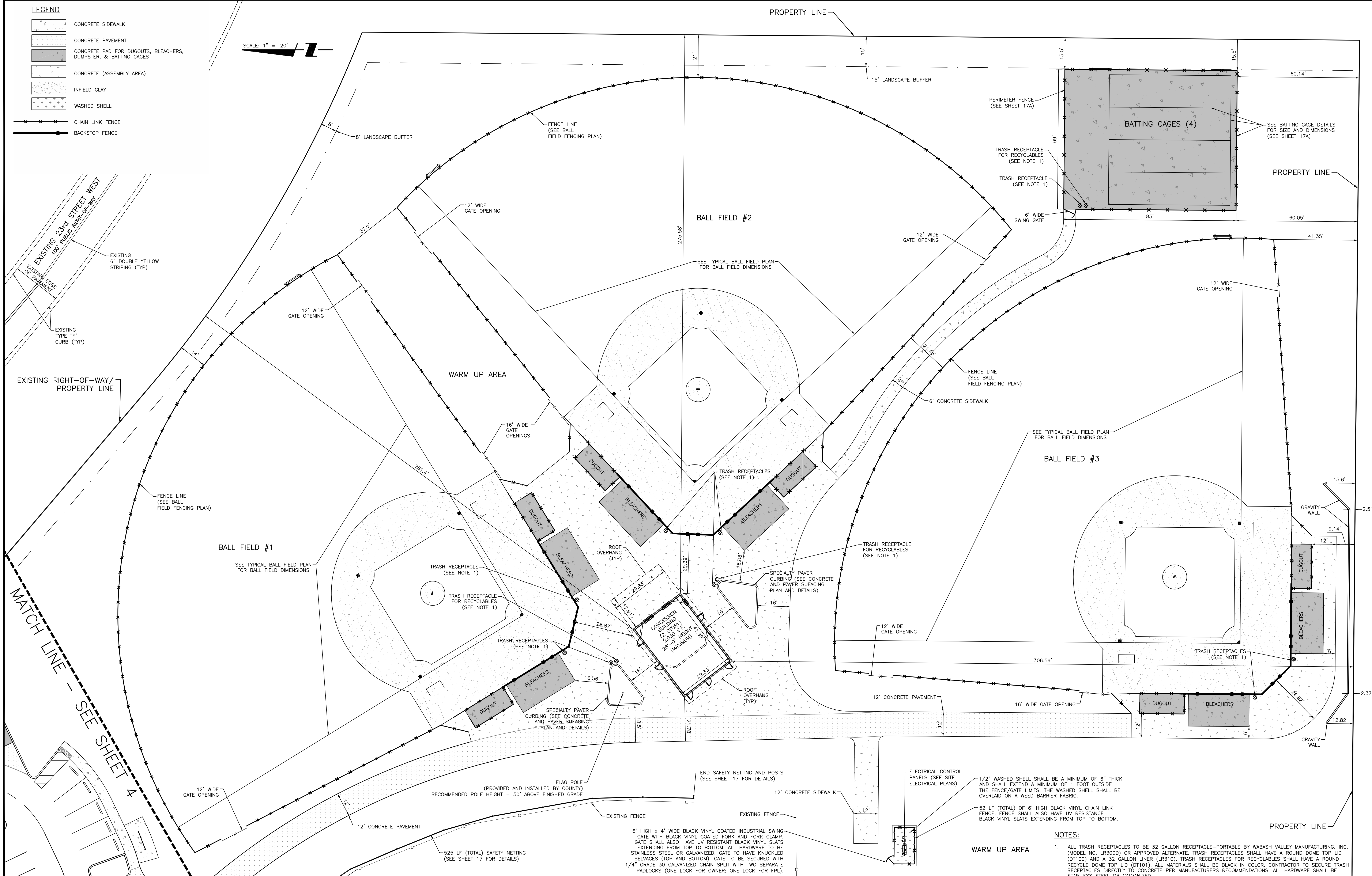
DATE: DECEMBER 2012  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: NA  
 SHEET NUMBER: 4 OF 19  
 PROJECT NUMBER: 215611237

TITLE: SITE PLAN - NORTH  
 D-215611237-004  
 SHEET NUMBER: 4 OF 19

**LEGEND**

[Symbol]	CONCRETE SIDEWALK
[Symbol]	CONCRETE PAVEMENT
[Symbol]	CONCRETE PAD FOR DUGOUTS, BLEACHERS, DUMPSTER, & BATTING CAGES
[Symbol]	CONCRETE (ASSEMBLY AREA)
[Symbol]	INFIELD CLAY
[Symbol]	WASHED SHELL
[Symbol]	CHAIN LINK FENCE
[Symbol]	BACKSTOP FENCE

SCALE: 1" = 20'



**NOTES:**

- ALL TRASH RECEPTACLES TO BE 32 GALLON RECEPTACLE-PORTABLE BY WABASH VALLEY MANUFACTURING, INC. (MODEL NO. LR300D) OR APPROVED ALTERNATE. TRASH RECEPTACLES SHALL HAVE A ROUND DOME TOP LID (D1100) AND A 32 GALLON LINER (LR310). TRASH RECEPTACLES FOR RECYCLABLES SHALL HAVE A ROUND RECYCLE DOME TOP LID (D1101). ALL MATERIALS SHALL BE BLACK IN COLOR. CONTRACTOR TO SECURE TRASH RECEPTACLES DIRECTLY TO CONCRETE PER MANUFACTURERS RECOMMENDATIONS. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED.

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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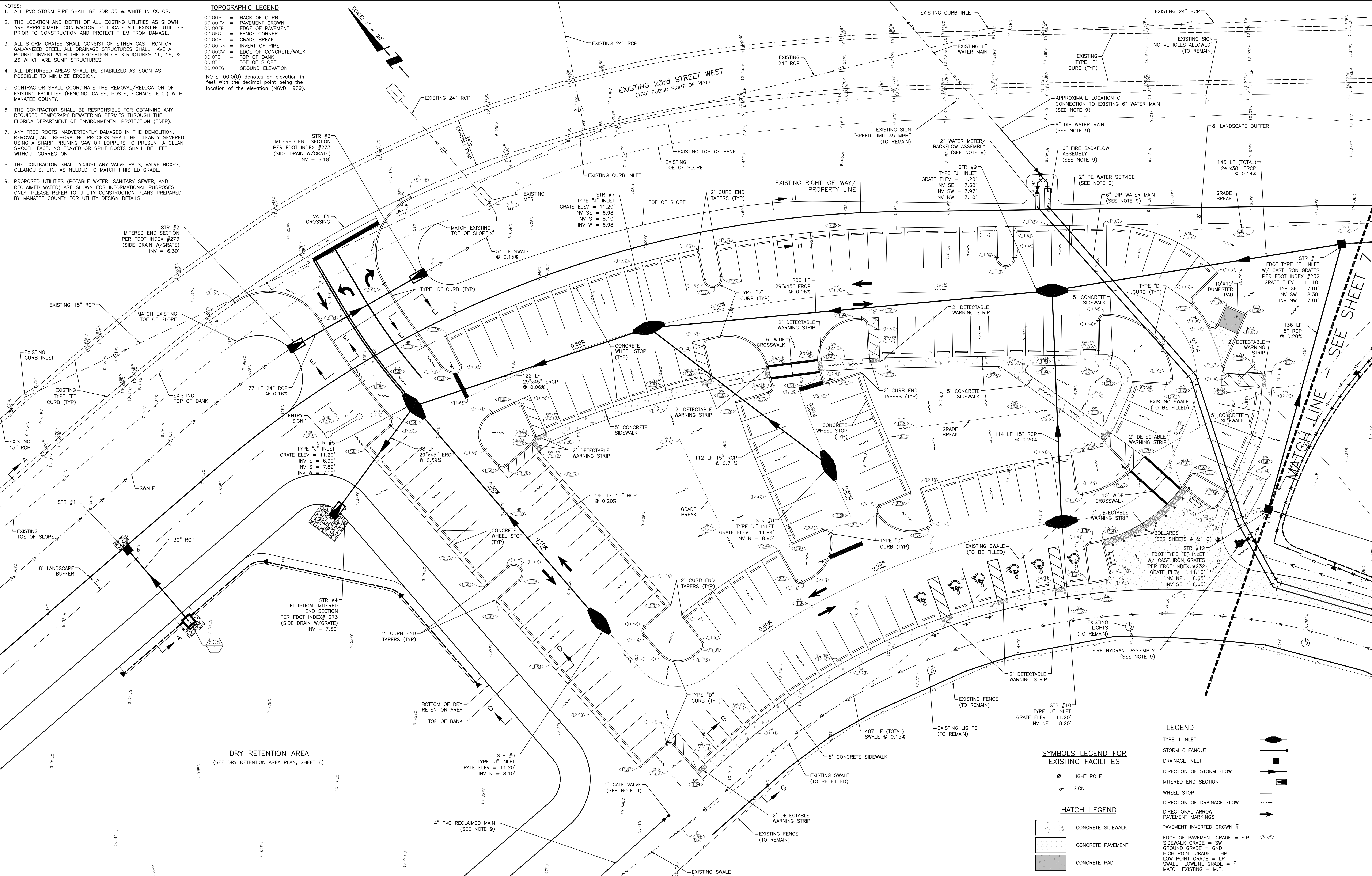
DATE: DECEMBER 2012  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: NA  
 SHEET NUMBER: 5 OF 19  
 TITLE: SITE PLAN - SOUTH  
 PROJECT NUMBER: 215611237

- NOTES:**
- ALL PVC STORM PIPE SHALL BE SDR 35 & WHITE IN COLOR.
  - THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
  - ALL STORM GRATES SHALL CONSIST OF EITHER CAST IRON OR GALVANIZED STEEL. ALL DRAINAGE STRUCTURES SHALL HAVE A POURED INVERT WITH THE EXCEPTION OF STRUCTURES 16, 19, & 26 WHICH ARE SUMP STRUCTURES.
  - ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO MINIMIZE EROSION.
  - CONTRACTOR SHALL COORDINATE THE REMOVAL/RELOCATION OF EXISTING FACILITIES (FENCING, GATES, POSTS, SIGNAGE, ETC.) WITH MANATEE COUNTY.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TEMPORARY DOWNGRADING PERMITS THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
  - ANY TREE ROOTS INADVERTENTLY DAMAGED IN THE DEMOLITION, REMOVAL, AND RE-GRADING PROCESS SHALL BE CLEANLY SEVERED USING A SHARP PRUNING SAW OR LOPPERS TO PRESENT A CLEAN SMOOTH FACE. NO FRAYED OR SPLIT ROOTS SHALL BE LEFT WITHOUT CORRECTION.
  - THE CONTRACTOR SHALL ADJUST ANY VALVE PADS, VALVE BOXES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISHED GRADE.
  - PROPOSED UTILITIES (POTABLE WATER, SANITARY SEWER, AND RECLAIMED WATER) ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. PLEASE REFER TO UTILITY CONSTRUCTION PLANS PREPARED BY MANATEE COUNTY FOR UTILITY DESIGN DETAILS.

**TOPOGRAPHIC LEGEND**

00.00BC	BACK OF CURB
00.00CV	PAVEMENT CROWN
00.00EP	EDGE OF PAVEMENT
00.00FC	FENCE CORNER
00.00GB	GRADE BREAK
00.00IN	INVERT OF PIPE
00.00SW	EDGE OF CONCRETE/WALK
00.00TB	TOP OF BANK
00.00TS	TOE OF SLOPE
00.00EG	GROUND ELEVATION

NOTE: 00.0(0) denotes an elevation in feet with the decimal point being the location of the elevation (NGVD 1929).



**LEGEND**

- TYPE J INLET
- STORM CLEANOUT
- DRAINAGE INLET
- DIRECTION OF STORM FLOW
- MITERED END SECTION
- WHEEL STOP
- DIRECTION OF DRAINAGE FLOW
- DIRECTIONAL ARROW
- PAVEMENT MARKINGS
- PAVEMENT INVERTED CROWN
- EDGE OF PAVEMENT GRADE = E.P.
- SIDEWALK GRADE = GND
- GROUND GRADE = SW
- HIGH POINT GRADE = HP
- LOW POINT GRADE = LP
- SWALE FLOWLINE GRADE = FL
- MATCH EXISTING = M.E.

**SYMBOLS LEGEND FOR EXISTING FACILITIES**

- LIGHT POLE
- SIGN

**HATCH LEGEND**

- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- CONCRETE PAD

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

**WilsonMiller Stantec**

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CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS  
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DATE: DECEMBER 2012  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: NA  
 SHEET NUMBER: 6 OF 19

TITLE: PAVING AND DRAINAGE PLAN - NORTH

CROSS REFERENCE FILE NO.: 215611237  
 PROJECT NUMBER: 215611237

DANIEL J. BOND, P.E.  
 FLORIDA LICENSE NO. 57969  
 INDEX NUMBER: D-215611237-006

- NOTES:**
- ALL PVC STORM PIPE SHALL BE SDR 35 & WHITE IN COLOR.
  - THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
  - ALL STORM GRATES SHALL CONSIST OF EITHER CAST IRON OR GALVANIZED STEEL. ALL DRAINAGE STRUCTURES SHALL HAVE A POURED INVERT WITH THE EXCEPTION OF STRUCTURES 16, 19, & 26 WHICH ARE SUMP STRUCTURES.
  - ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO MINIMIZE EROSION.
  - CONTRACTOR SHALL COORDINATE THE REMOVAL/RELOCATION OF EXISTING FACILITIES (FENCING, GATES, POSTS, SIGNAGE, ETC.) WITH MANATEE COUNTY.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TEMPORARY DEWATERING PERMITS THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
  - ANY TREE ROOTS INADVERTENTLY DAMAGED IN THE DEMOLITION, REMOVAL, AND RE-GRADING PROCESS SHALL BE CLEANLY SEVERED USING A SHARP PRUNING SAW OR LOPPERS TO PRESENT A CLEAN SMOOTH FACE. NO FRAYED OR SPLIT ROOTS SHALL BE LEFT WITHOUT CORRECTION.
  - THE CONTRACTOR SHALL ADJUST ANY VALVE PADS, VALVE BOXES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISHED GRADE.
  - PROPOSED UTILITIES (POTABLE WATER, SANITARY SEWER, AND RECLAIMED WATER) ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. PLEASE REFER TO UTILITY CONSTRUCTION PLANS PREPARED BY MANATEE COUNTY FOR UTILITY DESIGN DETAILS.
  - THE PITCHER'S PLATE SHALL BE 6" ABOVE THE PERIMETER ELEVATION OF THE PITCHER'S MOUND. ALL BASE LINES SHALL BE LEVEL AND GRADED TO THE ELEVATION SHOWN PER PLAN.

**TOPOGRAPHIC LEGEND**

00.00BC = BACK OF CURB  
 00.00PV = PAVEMENT CROWN  
 00.00EP = EDGE OF PAVEMENT  
 00.00FC = FENCE CORNER  
 00.00GB = GRADE BREAK  
 00.00IN = INVERT OF PIPE  
 00.00SW = EDGE OF CONCRETE/WALK  
 00.00TB = TOP OF BANK  
 00.00TS = TOE OF SLOPE  
 00.00EG = GROUND ELEVATION

NOTE: 00.0(0) denotes an elevation in feet with the decimal point being the location of the elevation (NGVD 1929).

**SYMBOLS LEGEND FOR EXISTING FACILITIES**

○ LIGHT POLE  
 □ SIGN

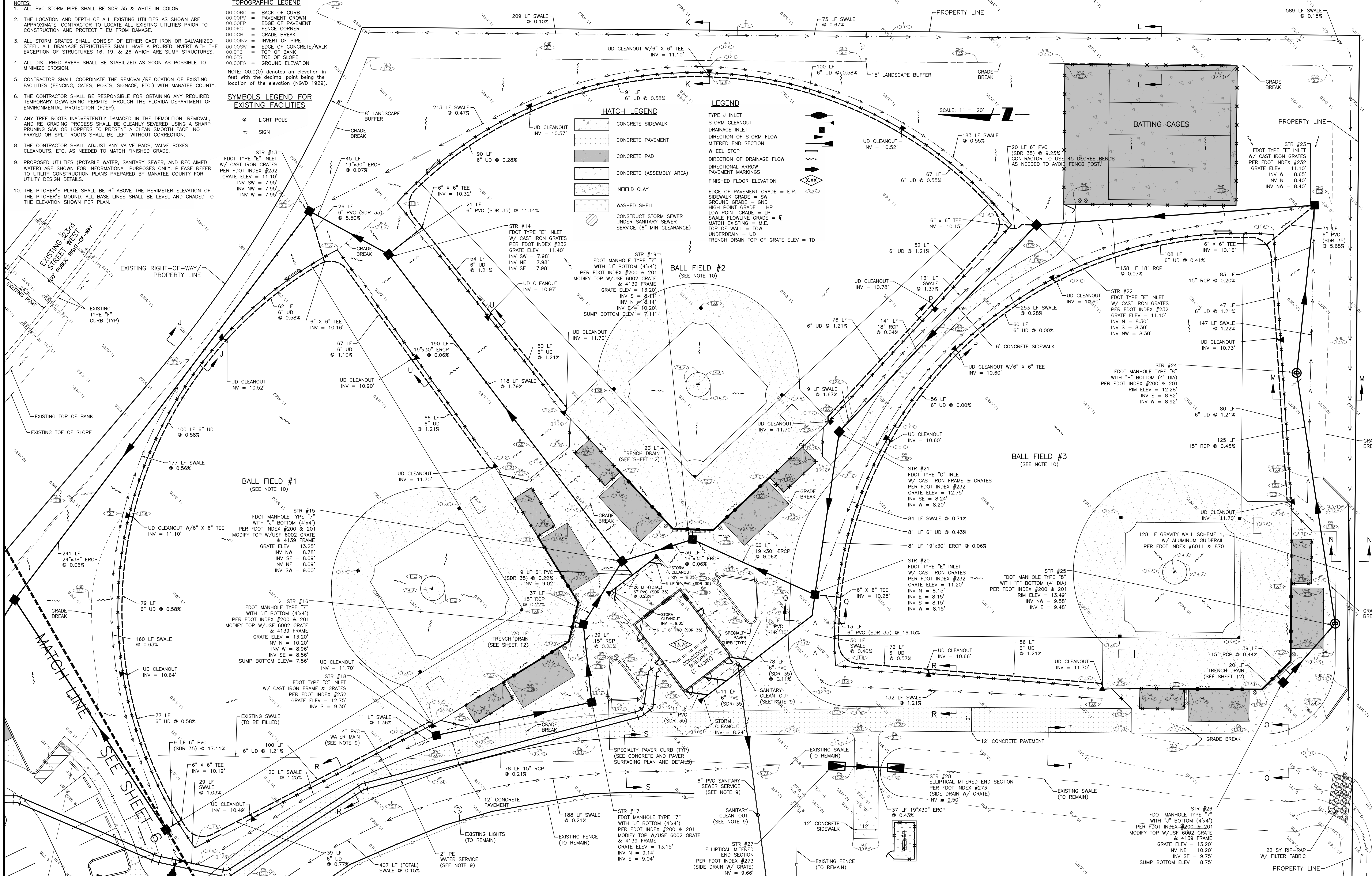
**HATCH LEGEND**

CONCRETE SIDEWALK  
 CONCRETE PAVEMENT  
 CONCRETE PAD  
 CONCRETE (ASSEMBLY AREA)  
 INFIELD CLAY  
 WASHED SHELL  
 CONSTRUCT STORM SEWER UNDER SANITARY SEWER SERVICE (6" MIN CLEARANCE)

**LEGEND**

TYPE J INLET  
 STORM CLEANOUT  
 DRAINAGE INLET  
 DIRECTION OF STORM FLOW  
 MITERED END SECTION  
 WHEEL STOP  
 DIRECTION OF DRAINAGE FLOW  
 DIRECTIONAL ARROW  
 PAVEMENT MARKINGS  
 FINISHED FLOOR ELEVATION  
 EDGE OF PAVEMENT GRADE = E.P.  
 SIDEWALK GRADE = SW  
 GROUND GRADE = GND  
 HIGH POINT GRADE = HP  
 LOW POINT GRADE = LP  
 SWALE FLOWLINE GRADE = F  
 MATCH EXISTING = M.E.  
 TOP OF WALL = TOW  
 UNDERDRAIN = UD  
 TRENCH DRAIN TOP OF GRADE ELEV = TD

SCALE: 1" = 20'



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	DATE

ACTIVITY	INITIALS/EMP. NO.	DATE
DESIGNED BY:		
DRAWN BY:	CLL/096591	12/20/12
CHECKED BY:		
CONTRACT ADMIN. BY:		
WM APPROVED BY:		

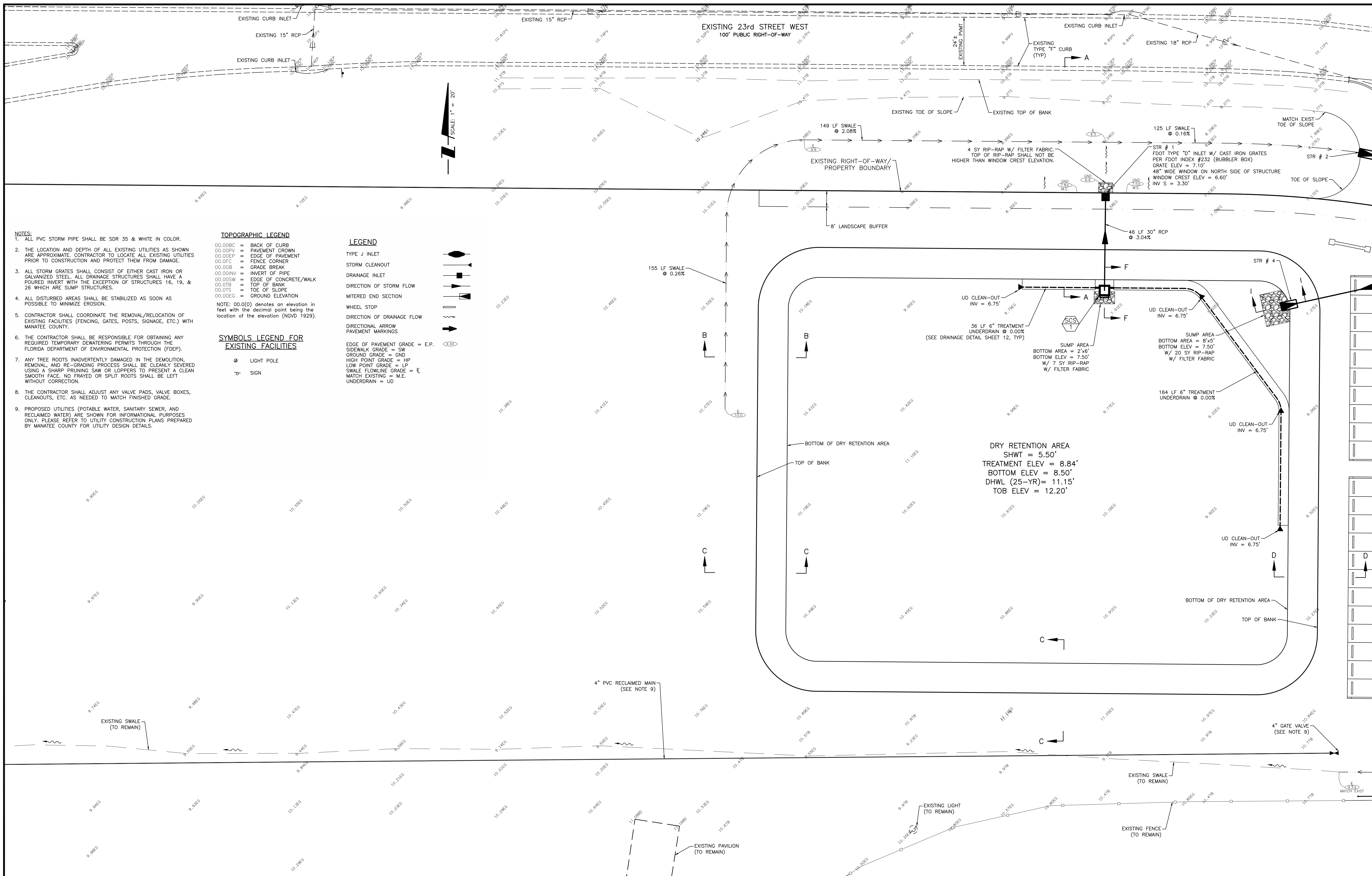
**WilsonMiller Stantec**

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 Phone: 941.907.6500 • Fax: 941.907.6910  
 Certificate of Authorization #43 • FL Lic. #LC-0000178 • www.stantec.com

CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS  
 PROJECT: BLACKSTONE PARK EXPANSION

DATE: DECEMBER 2012  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: NA  
 CROSS REFERENCE FILE NO.: 215611237  
 PROJECT NUMBER: 215611237  
 SHEET NUMBER: 7 OF 19

TITLE: PAVING AND DRAINAGE PLAN - SOUTH  
 D-215611237-007  
 DANIEL J. BOND, P.E.  
 FLORIDA LICENSE NO. 57969



- NOTES:**
- ALL PVC STORM PIPE SHALL BE SDR 35 & WHITE IN COLOR.
  - THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AS SHOWN ARE APPROXIMATE. CONTRACTOR TO LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION AND PROTECT THEM FROM DAMAGE.
  - ALL STORM GRATES SHALL CONSIST OF EITHER CAST IRON OR GALVANIZED STEEL. ALL DRAINAGE STRUCTURES SHALL HAVE A POURED INVERT WITH THE EXCEPTION OF STRUCTURES 16, 19, & 26 WHICH ARE SUMP STRUCTURES.
  - ALL DISTURBED AREAS SHALL BE STABILIZED AS SOON AS POSSIBLE TO MINIMIZE EROSION.
  - CONTRACTOR SHALL COORDINATE THE REMOVAL/RELOCATION OF EXISTING FACILITIES (FENCING, GATES, POSTS, SIGNAGE, ETC.) WITH MANATEE COUNTY.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED TEMPORARY DEWATERING PERMITS THROUGH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP).
  - ANY TREE ROOTS INADVERTENTLY DAMAGED IN THE DEMOLITION, REMOVAL, AND RE-GRADING PROCESS SHALL BE CLEANLY SEVERED USING A SHARP PRUNING SAW OR LOPPERS TO PRESENT A CLEAN SMOOTH FACE. NO FRAYED OR SPLIT ROOTS SHALL BE LEFT WITHOUT CORRECTION.
  - THE CONTRACTOR SHALL ADJUST ANY VALVE PADS, VALVE BOXES, CLEANOUTS, ETC. AS NEEDED TO MATCH FINISHED GRADE.
  - PROPOSED UTILITIES (POTABLE WATER, SANITARY SEWER, AND RECLAIMED WATER) ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY. PLEASE REFER TO UTILITY CONSTRUCTION PLANS PREPARED BY MANATEE COUNTY FOR UTILITY DESIGN DETAILS.

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NOTE: 00.0(0) denotes an elevation in feet with the decimal point being the location of the elevation (NGVD 1929).

**SYMBOLS LEGEND FOR EXISTING FACILITIES**

○ LIGHT POLE  
 ▽ SIGN

**LEGEND**

TYPE J INLET  
 STORM CLEANOUT  
 DRAINAGE INLET  
 DIRECTION OF STORM FLOW  
 MITERED END SECTION  
 WHEEL STOP  
 DIRECTION OF DRAINAGE FLOW  
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 MATCH EXISTING = M.E.  
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REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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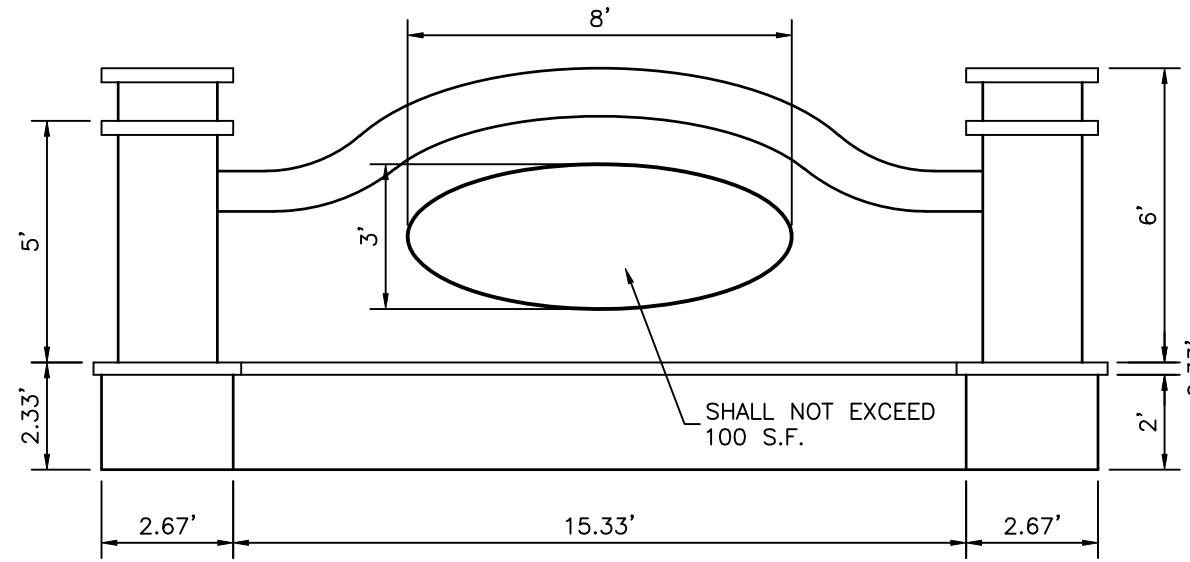
CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS  
 PROJECT: BLACKSTONE PARK EXPANSION

DATE: DECEMBER 2012  
 HORIZONTAL SCALE: 1" = 20'  
 VERTICAL SCALE: NA  
 SEC: 11 TWP: 34S RGE: 17E  
 CROSS REFERENCE FILE NO.:  
 PROJECT NUMBER: 215611237  
 TITLE: DRY RETENTION AREA PLAN  
 INDEX NUMBER: D-215611237-008  
 SHEET NUMBER: 8 OF 19

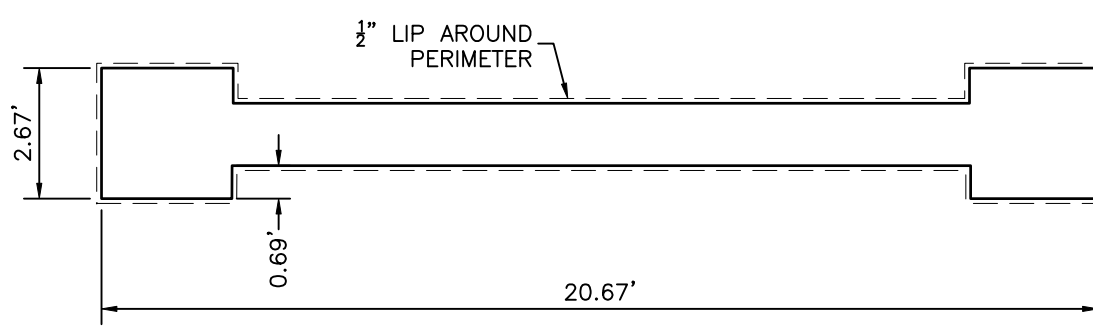




**ENTRY SIGN PHOTO EXAMPLE**  
 ENTRY SIGN REFERENCE EXAMPLE LOCATED AT TOM BENNETT PARK.  
 ADDRESS: 400 CYPRESS CREEK BOULEVARD, BRADENTON, FL 34208.  
 SIGN BY LCM GROUP SERVICES, LLC.



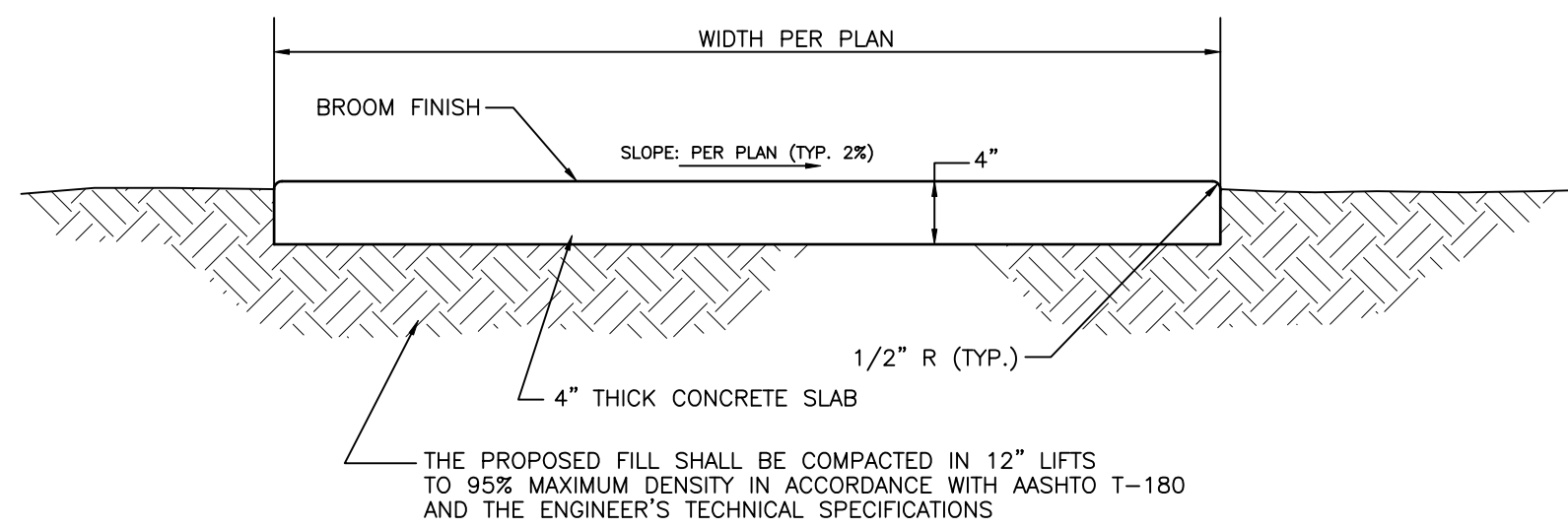
**FRONT ELEVATION**



**PLAN VIEW**

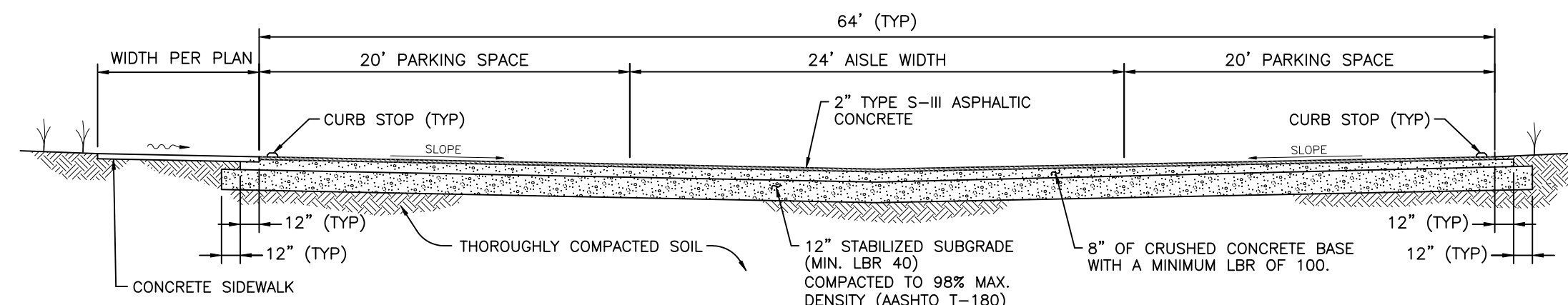
- NOTES:**
- ENTRY SIGN DETAILS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE PROVIDED FOR BASIS OF BID ONLY. CONTRACTOR SHALL PROVIDE FINAL DESIGN/SHOP DRAWINGS FOR ENTRY SIGN, INCLUDING SIGNED AND SEALED STRUCTURAL PLANS.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING RELATED TO THE ENTRY SIGN AS REQUIRED BY THE CITY OF PALMETTO, INCLUDING ANY APPLICABLE PERMIT FEES.
  - ENTRY SIGN FOR BLACKSTONE PARK SHALL MATCH ALL MATERIALS, FINISHES, COLORS, AND DIMENSIONS AS THE TOM BENNETT PARK SIGN. PARK NAME SHALL READ "BLACKSTONE PARK" INSTEAD OF "TOM BENNETT PARK".

**ENTRY SIGN SCHEMATIC DETAIL**  
 N.T.S.

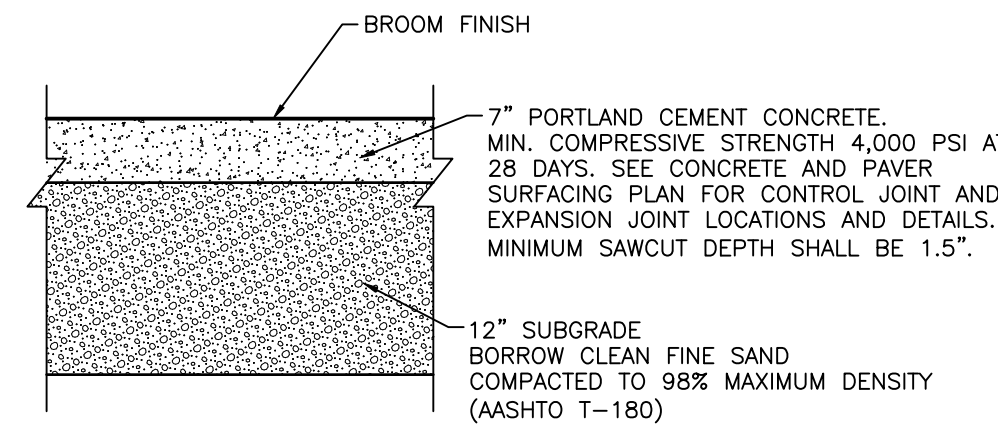


**TYPICAL CONCRETE SIDEWALK DETAIL**  
 N.T.S.

- SIDEWALK NOTES:**
- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
  - SEE CONCRETE AND PAVEMENT SURFACING PLAN FOR CONTROL JOINT AND EXPANSION JOINT LOCATIONS AND DETAILS. MINIMUM SAW CUT DEPTH SHALL BE 1.5\"/>

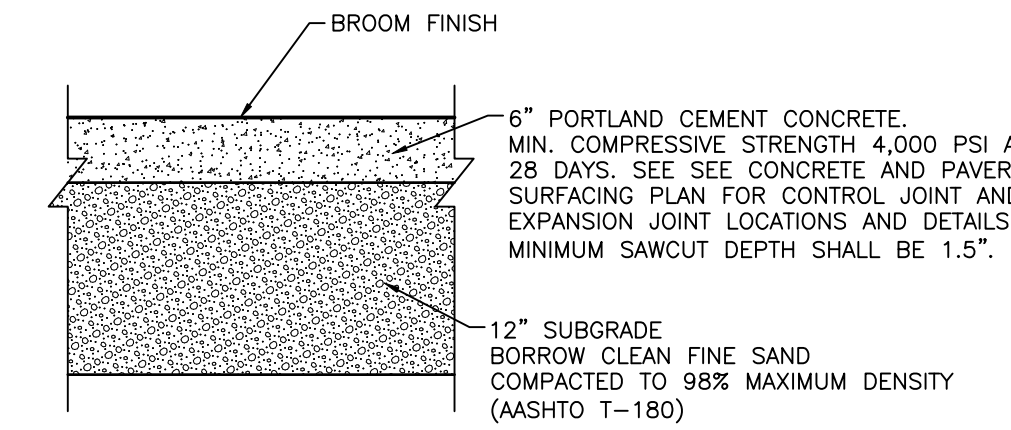


**TYPICAL FLEXIBLE PAVEMENT SECTION**  
 N.T.S.



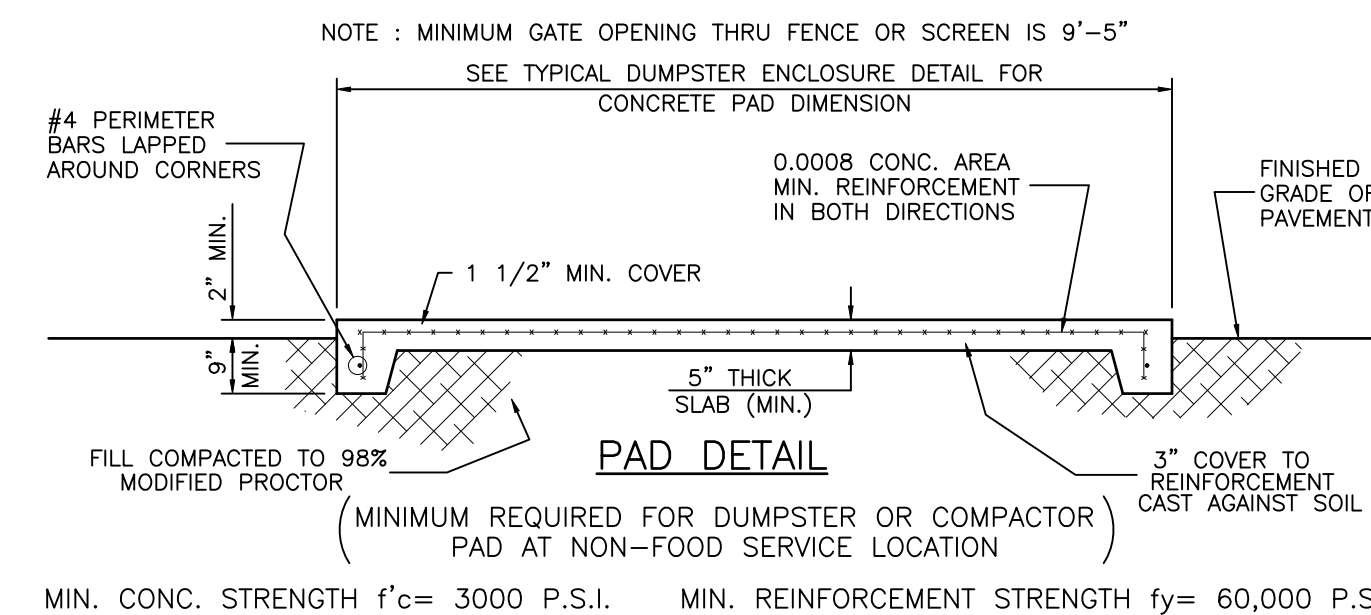
**PORTLAND CEMENT CONCRETE RIGID PAVEMENT SECTION**  
 N.T.S.

- NOTES:**
- SUBGRADE SOILS SHOULD BE DENSIFIED TO AT LEAST 98% OF MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D1557, AASHTO T-180) TO A DEPTH OF AT LEAST 1 FOOT PRIOR TO PLACEMENT OF CONCRETE.
  - THE SURFACE OF THE SUBGRADE SOILS SHOULD BE SMOOTH, AND ANY DISTURBANCES OR WHEEL RUTTING CORRECTED PRIOR TO PLACEMENT OF CONCRETE.
  - THE SUBGRADE SOILS SHOULD BE MOISTENED PRIOR TO PLACEMENT OF CONCRETE.
  - CONCRETE PAVEMENT THICKNESS SHOULD BE UNIFORM THROUGHOUT.
  - SEE SITE PLAN FOR CONCRETE PAVEMENT LOCATIONS.
  - ALL CONCRETE AREAS SHALL NOT EXCEED 2% CROSS SLOPE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA).
  - ALL EDGES SHALL HAVE A 0.5\"/>



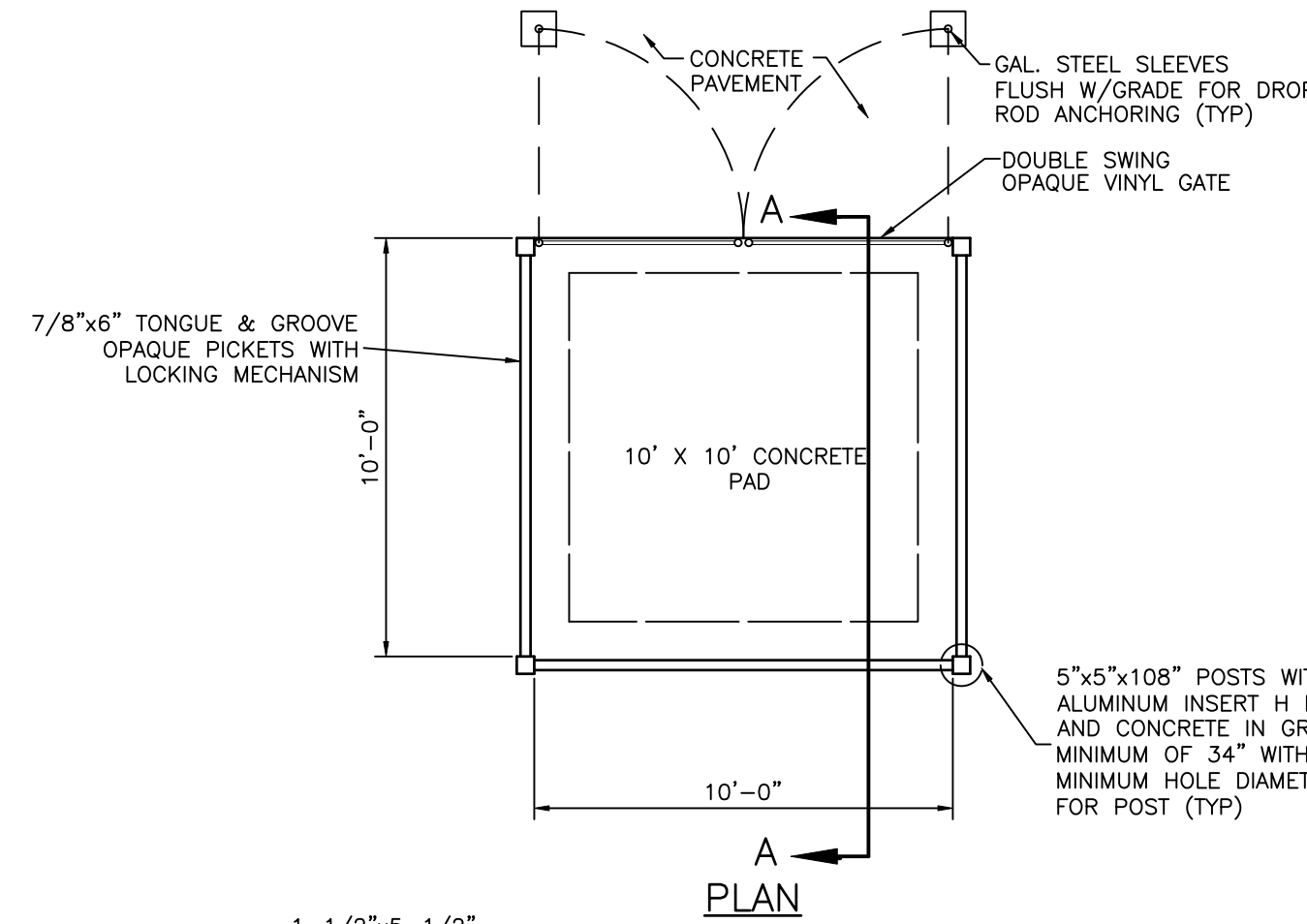
**TYPICAL CONCRETE SECTION FOR ASSEMBLY AREAS**  
 N.T.S.

- NOTES:**
- SUBGRADE SOILS SHOULD BE DENSIFIED TO AT LEAST 98% OF MODIFIED PROCTOR TEST MAXIMUM DRY DENSITY (ASTM D1557, AASHTO T-180) TO A DEPTH OF AT LEAST 1 FOOT PRIOR TO PLACEMENT OF CONCRETE.
  - THE SURFACE OF THE SUBGRADE SOILS SHOULD BE SMOOTH, AND ANY DISTURBANCES OR WHEEL RUTTING CORRECTED PRIOR TO PLACEMENT OF CONCRETE.
  - THE SUBGRADE SOILS SHOULD BE MOISTENED PRIOR TO PLACEMENT OF CONCRETE.
  - CONCRETE THICKNESS SHOULD BE UNIFORM THROUGHOUT.
  - SEE SITE PLAN FOR CONCRETE (ASSEMBLY AREA) LOCATIONS.
  - ALL CONCRETE AREAS SHALL NOT EXCEED 2% CROSS SLOPE IN ACCORDANCE WITH THE AMERICAN WITH DISABILITIES ACT (ADA).
  - ALL EDGES SHALL HAVE A 0.5\"/>

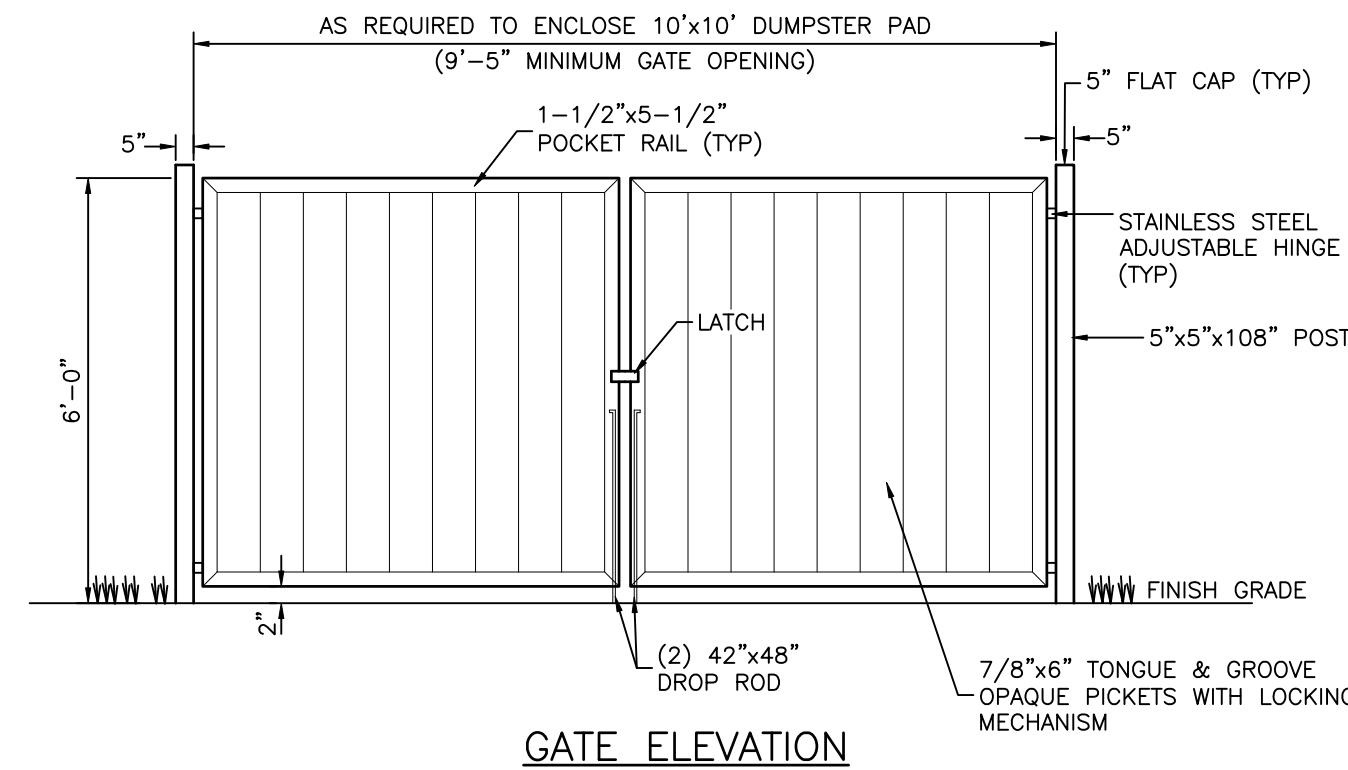


**DUMPSTER PAD TYPICAL DETAILS**  
 N.T.S.

- NOTE:** MINIMUM GATE OPENING THRU FENCE OR SCREEN IS 9'-5"
- MIN. CONC. STRENGTH  $f'_c = 3000$  P.S.I. MIN. REINFORCEMENT STRENGTH  $f_y = 60,000$  P.S.I.



**TYPICAL DUMPSTER ENCLOSURE DETAIL**  
 N.T.S.



**GATE ELEVATION**

- NOTES:**
- ENCLOSURE & GATES TO BE PEBBLESTONE PICKET AS MANUFACTURED BY POLY VINYL CREATIONS (OR APPROVED EQUAL). FINAL COLOR TO BE APPROVED BY COUNTY.
  - CONTRACTOR TO SUBMIT TO THE COUNTY/ENGINEER SHOP DRAWINGS AND SIGNED & SEALED WINDLOAD CALCULATIONS MEETING BUILDING CODE REQUIREMENTS.
  - CONTRACTOR SHALL INCLUDE ANY BUILDING PERMITTING REQUIRED FOR DUMPSTER PAD, ENCLOSURE, & GATES IN THEIR BID PRICE.
  - ALL GATE POSTS TO BE 5"x5"x108" WITH ALUMINUM INSERT H BEAM AND CONCRETE IN GROUND MINIMUM OF 34" WITH 12" DIAMETER HOLE. CONCRETE TO BE FILLED UP TO FINISHED GRADE.
  - FOR HARDWARE: PADLOCKABLE DROP ROD, LOCK LATCH DELUXE WITH 6 PIN KEY SYSTEM AND STAINLESS STEEL ADJUSTABLE HINGES.

**GENERAL SITE CONSTRUCTION NOTES:**

- THERE SHALL BE NO CHANGE OR DEVIATION FROM THESE PLANS WITHOUT PRIOR APPROVAL BY THE ENGINEER.
- ALL CLEARING AND GRUBBING DEBRIS TO BE BURNED OR REMOVED FROM SITE AND IS PART OF CLEARING AND GRUBBING ITEM. A BURN PERMIT IS REQUIRED TO BE OBTAINED BY THE CONTRACTOR IF BURNING IS TO OCCUR.
- ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS. FINISH EARTHWORK GRADING SHALL BE 0.2 FEET BELOW ELEVATIONS SHOWN TO ALLOW FOR SOD THICKNESS.
- SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST. UNTIL THEN, ALL EROSION, SILTATION, AND MAINTENANCE OF GRADES AND GRASS IS THE RESPONSIBILITY OF THE CONTRACTOR.
- CERTAIN TREES ARE DESIGNATED BY THE OWNER TO BE SAVED AND PROTECTED BY THE CONTRACTOR. IT IS ASSUMED THESE TREES ARE HEALTHY AND ARE EXPECTED TO BE PART OF THE LANDSCAPE DEVELOPMENT. THEREFORE, IF ANY TREE(S) ARE DAMAGED BY CONSTRUCTION OPERATIONS OR BY OTHER MEANS (EXCLUDING LIGHTNING, WINDSTORM AND OTHER ACTS OF GOD) AND FRISHES WITHIN THE CONSTRUCTION PERIOD, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THOSE TREES. CITY OF PALMETTO APPROVAL IS REQUIRED PRIOR TO REMOVAL OF ANY TREES DESIGNATED TO REMAIN. NO ADDITIONAL COMPENSATION SHALL BE MADE BY THE OWNER FOR THE LABOR, MATERIAL, OR MACHINERY REQUIRED TO REMOVE SAID TREE(S).
- WHERE EXCAVATIONS ARE IN CLOSE PROXIMITY OF TREES, THE CONTRACTOR SHALL USE EXTREME CARE IN NOT DAMAGING THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES, OR VEHICLES SHALL BE STORED OR PARKED WITHIN THE DRIP LINE OF TREES TO REMAIN AND BE PRESERVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ALL OF HIS EMPLOYEES AND SUBCONTRACTORS OF THIS REQUIREMENT AND TO ENFORCE SAME.
- LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, LAKE SLOPES, ADJACENT TO EDGE OF PAVEMENT AND ADJACENT TO BACK OF CURB AS SHOWN IN DETAILS OR AS DIRECTED BY THE ENGINEER.
- NOTIFY "SUNSHINE STATE ONE CALL (1-800-432-4770), MANATEE COUNTY PUBLIC WORKS DEPARTMENT, CITY OF PALMETTO PUBLIC WORKS DEPARTMENT, FLORIDA POWER & LIGHT, VERIZON AND ANY UTILITIES (GAS COMPANIES, CABLE TV, ETC.) PRIOR TO CONSTRUCTION AND PRIOR TO ANY CONNECTION TO EXISTING UTILITIES. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT EXISTING UTILITIES FROM DAMAGE.
- ALL UTILITY LINES, STORM DRAIN LINES AND ACCESSORIES SUCH AS, BUT NOT LIMITED TO, MANHOLES, CLEANOUTS, SEWER AND WATER SERVICES, VALVES, FIRE HYDRANTS AND INLETS SHALL BE CONSTRUCTED TO ALIGNMENT AND LOCATIONS SHOWN ON PLANS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- CLEARING, GRUBBING, STRIPPING, AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR HIS DULY APPOINTED REPRESENTATIVE PRIOR TO FILLING.
- PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, PRESERVE AREAS WITHIN AND ADJOINING THE AREA OF CONSTRUCTION ACTIVITY SHALL BE PROTECTED BY ERECTION OF TREE PROTECTION BARRICADES AND/OR SILT BARRIERS. SILT BARRIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES DETAIL DRAWING. THE ENGINEER SHALL DETERMINE THE EXTENT AND TYPE OF PROTECTIVE MEASURES TO BE CONSTRUCTED FOR THE PROTECTION OF PRESERVE AREAS SUBJECT TO THE APPROVAL OF SWFWMD & THE CITY OF PALMETTO. THE CONTRACTOR SHALL NOTIFY THE ENGINEER & THE CITY OF PALMETTO WHEN PRESERVE AREA BARRICADES AND BARRIERS ARE IN PLACE. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY REQUIRED TREE REMOVAL PERMIT FROM THE CITY OF PALMETTO.
- ALL LIMITS OF CONSTRUCTION FOR THE OUTFALL PIPE/STRUCTURE/SPEADER SWALE SHALL BE STAKED PRIOR TO ANY CONSTRUCTION WITHIN THE LAKES OR WETLAND/BUFFERS. APPROVAL FROM THE ENGINEER, AND THE OWNER IS REQUIRED BEFORE EQUIPMENT CAN BE USED WITHIN THE LAKE OR WETLAND/BUFFER. THE ENGINEER SHALL BE ON SITE DURING CONSTRUCTION WITHIN THE LAKE OR WETLAND/BUFFER.
- LOCATION OF ALL STORM STRUCTURES (WEIR, MITERED END, CONTROL STRUCTURE, GRATE INLET, ETC.) ADJACENT TO A WETLAND SHALL BE APPROVED BY THE ENGINEER OR HIS REPRESENTATIVE AFTER SURVEY STAKE OUT AND PRIOR TO INSTALLATION.
- FILLING, EXCAVATING OR REMOVAL OF NATIVE VEGETATION SHALL BE PROHIBITED IN THE PRESERVATION AREA, UNLESS APPROVED BY THE CITY OF PALMETTO.
- THE CONTRACTOR SHALL ADHERE TO AND HAVE A COPY OF THE SWFWMD PERMIT FOR THE PROJECT ON SITE.
- ALL CONCRETE PIPE SHALL HAVE A FILTER FABRIC JACKET MINIMUM 12" EACH SIDE OF JOINT WITH MINIMUM 24" OVERLAP AT SEAM PER FDOT INDEX #280 & #199 & ALL APPLICABLE CITY REQUIREMENTS. IN ADDITION, ALL ELLIPTICAL PIPE SHALL HAVE ALL JOINTS WRAPPED.
- CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
- CONTRACTOR SHALL CONSTRUCT ALL VALVES SO THAT NO VALVE BOXES ARE LOCATED IN HANDICAP RAMPS AND/OR CURBING. IF VALVES ARE FOUND TO BE IN THESE LOCATIONS, THE COST OF VALVE RELOCATION IS THE CONTRACTOR'S RESPONSIBILITY.
- THRUST BLOCKS AND JOINT RESTRAINTS DETAILS ON THE WATER DISTRIBUTION DETAILS SHEET SHALL ALSO APPLY TO FORCE MAIN, IRRIGATION & WATER MAINS.
- TRENCH DETAILS ON THE WASTEWATER COLLECTION CONSTRUCTION DETAILS SHEET SHALL ALSO APPLY TO FORCE MAIN, IRRIGATION & WATER MAINS.
- THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS THAT MEET OR EXCEED THE REQUIREMENTS OF THE SWFWMD ERP INFORMATION MANUAL, LATEST EDITION AND THE CITY OF PALMETTO.
- CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES MILLENNIUM EDITION AND THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, 2006, TRAFFIC CONTROL THROUGH WORK ZONES, SERIES 600 INDICES.

- LANDSCAPE SOIL**  
 LANDSCAPE SOIL SHALL BE NATURAL, FERTILE, AGRICULTURAL SOIL CAPABLE OF SUSTAINING VIGOROUS PLANT GROWTH. IT SHALL BE OF UNIFORM COMPOSITION THROUGHOUT. IT SHALL BE FREE OF STONES, LUMPS, ROOTS, STICKS AND OTHER EXTRANEUS MATTER. UNLESS OTHERWISE NOTED, SMOOTH ALL PREPARED LANDSCAPE SOIL TO 3 INCHES BELOW TOP OF SURROUNDING PAVEMENT EDGES.  
 FINISH GRADE ALL LANDSCAPE SOIL AREAS TO A SMOOTH, EVEN SURFACE ASSURING POSITIVE DRAINAGE AWAY FROM ALL STRUCTURES AND ANY ELIMINATE ANY LOW AREAS WHICH MAY COLLECT WATER.  
 SOIL SHALL MEET THE CLASSIFICATION OF COARSE LOAMY SAND TO A DEPTH OF 36" IN ALL AREAS OF PROPOSED LANDSCAPING AS FOLLOWS:
  - SAND CONTENT AFTER MIXING SHALL BE A MINIMUM OF 85% SAND HAVING A PARTICLE SIZE OF 0.05-2.00 MM (A MINIMUM OF 25% OF WHICH SHALL BE CLASSIFIED AS COARSE SAND HAVING A PARTICLE SIZE OF 0.5-1.0 MM AND A MAXIMUM OF 50% OF ANY OTHER SAND GRADE), 4.0-5.0% SILT HAVING A PARTICLE SIZE OF 0.002-0.05 MM, AND 6.0-8.0% CLAY.
  - ORGANIC MATTER CONTENT OF THE SOIL LAYER SHALL BE A MINIMUM OF 3.0% AND MAXIMUM OF 6.0%.
  - PH SHALL BE 5.5-7.0

THE CONTRACTOR SHALL TEST THE PROPOSED SOIL MIXTURE PRIOR TO PLACEMENT OF FILL TO ENSURE THAT THE ABOVE REFERENCED LANDSCAPE SOIL SPECIFICATIONS ARE MET. UPON COMPLETION OF SITE GRADING, THE CONTRACTOR SHALL SUBMIT LABORATORY TESTS FROM A MINIMUM OF 8 LOCATIONS AS DETERMINED BY THE ENGINEER/LANDSCAPE ARCHITECT. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH TESTING.

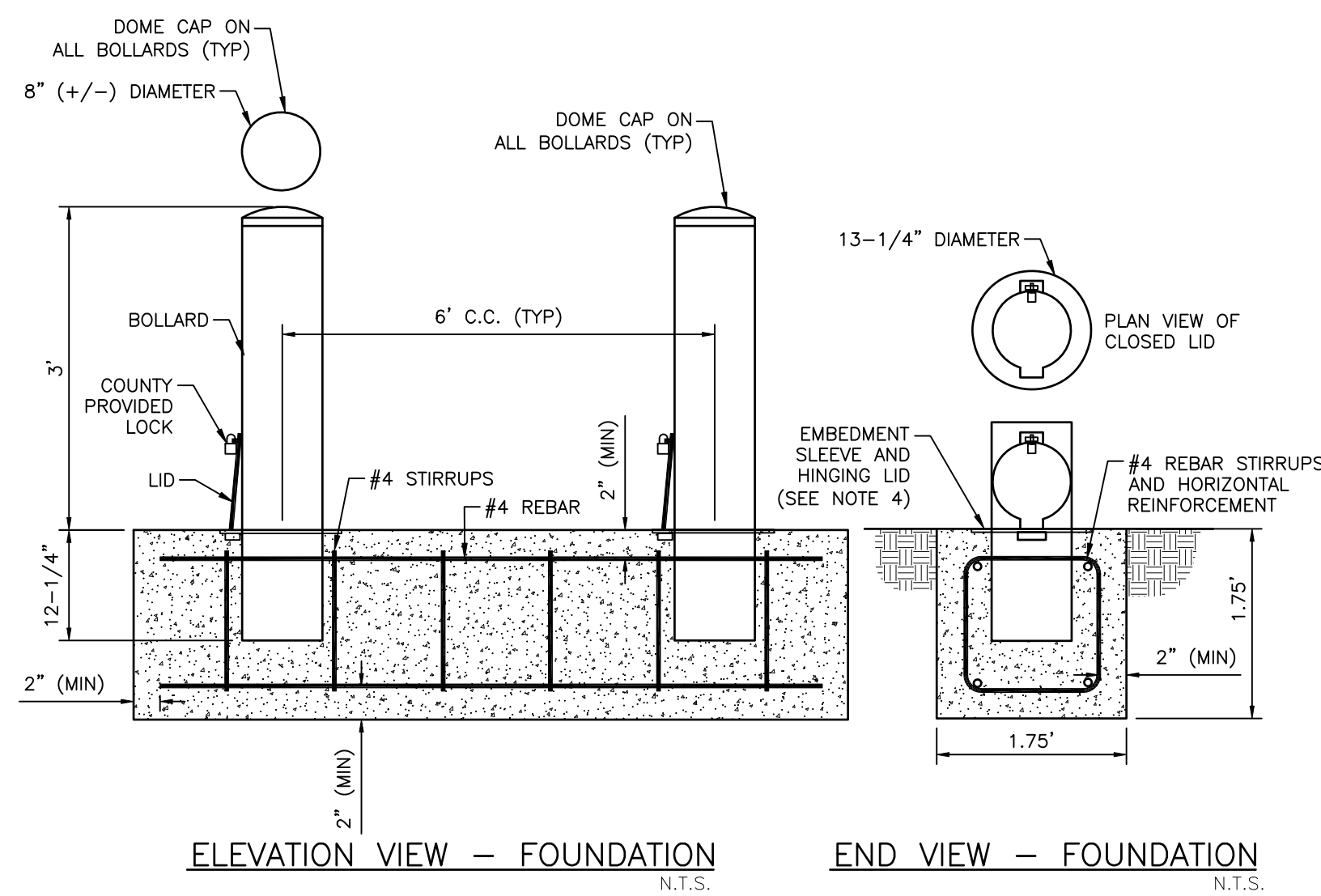
REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	W/M APPROVED BY:



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CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT:	BLACKSTONE PARK EXPANSION

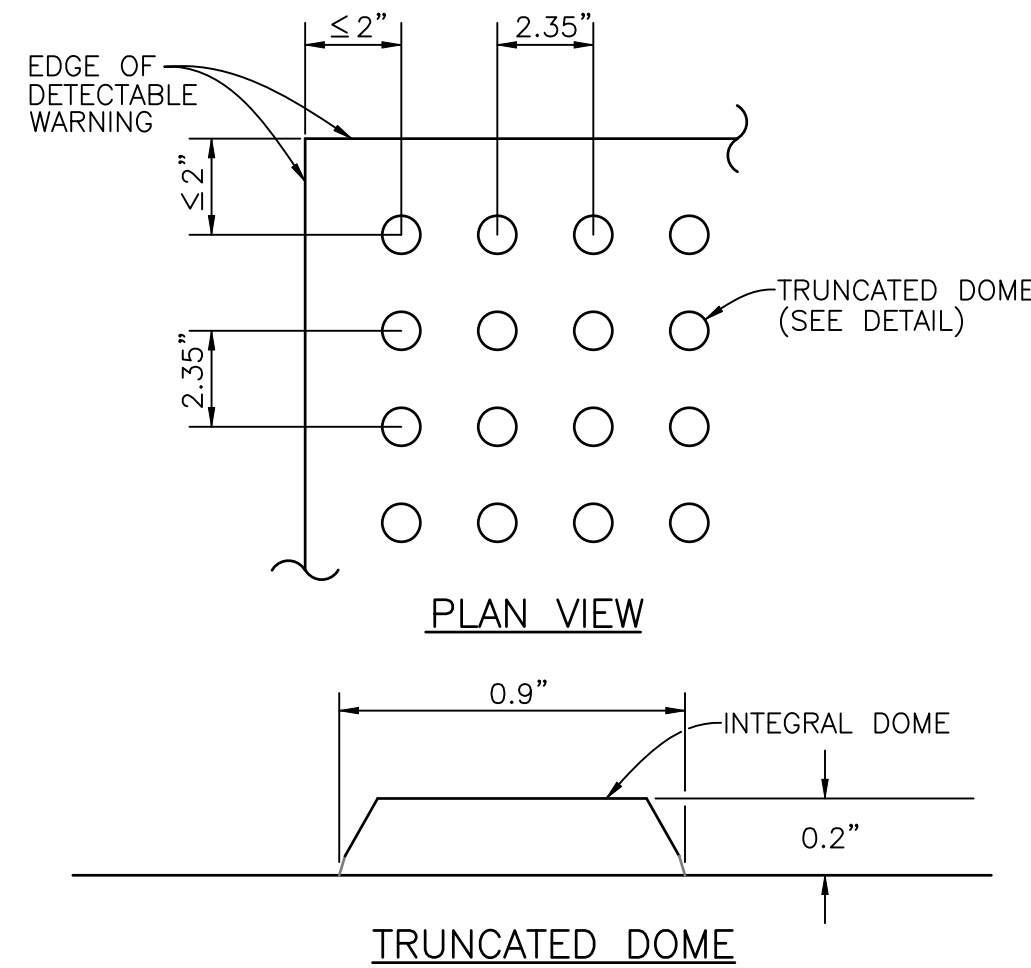
DATE:	DECEMBER 2012	TITLE:	TYPICAL SECTIONS AND CONSTRUCTION DETAILS
HORIZONTAL SCALE:	AS SHOWN	INDEX NUMBER:	D-215611237-009
VERTICAL SCALE:	AS SHOWN	SHEET NUMBER:	9 OF 19
CROSS REFERENCE FILE NO.:	215611237	PROJECT NUMBER:	215611237



**NOTES:**

- BOLLARDS TO BE 8" CARBON STEEL (SCH 80) SECURITY BOLLARDS AS MANUFACTURED BY CAL PIPE SECURITY BOLLARDS (IBP0808) OR APPROVED ALTERNATE. ALL BOLLARD TOPS SHALL HAVE A DOME CAP STYLE AND SHALL HAVE A BLACK POWDERCOAT FINISH. THE CONTRACTOR SHALL PROVIDE A COLOR SAMPLE (WITH THE SHOP DRAWINGS) TO THE ENGINEER AND COUNTY FOR REVIEW/APPROVAL PRIOR TO FABRICATION.
- ALL BOLLARDS AND FOOTINGS SHALL BE INSTALLED/CONSTRUCTED PER MANUFACTURER'S SPECIFICATIONS. LOCKS FOR REMOVABLE BOLLARDS TO BE PROVIDED BY THE COUNTY.
- ALL HINGING LIDS FOR THE REMOVABLE BOLLARDS SHALL BE POSITIONED TO OPEN DIRECTLY AWAY FROM THE PARKING LOT DRIVE AISLE.
- EMBEDMENT SLEEVE AND HINGING LID TO BE PROVIDED FOR REMOVABLE BOLLARDS ONLY. PLEASE SEE SHEET 4 FOR THE SPECIFIC LOCATIONS OF THE REMOVABLE BOLLARDS AND FIXED BOLLARDS.

**BOLLARD DETAIL**  
N.T.S.



**CURB RAMP DETECTABLE WARNING DETAIL**

**NOTES:**  
**DETECTABLE WARNINGS ON WALKING SURFACES**

ALL DETECTABLE WARNINGS SURFACES/TRUNCATED DOMES SHALL BE VANGUARD ADA SYSTEMS (OPL S527-0015) OR APPROVED ALTERNATE. THE ENTIRE DETECTABLE WARNING SURFACE SHALL BE SEAMLESS AND BLACK IN COLOR.

THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.

DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

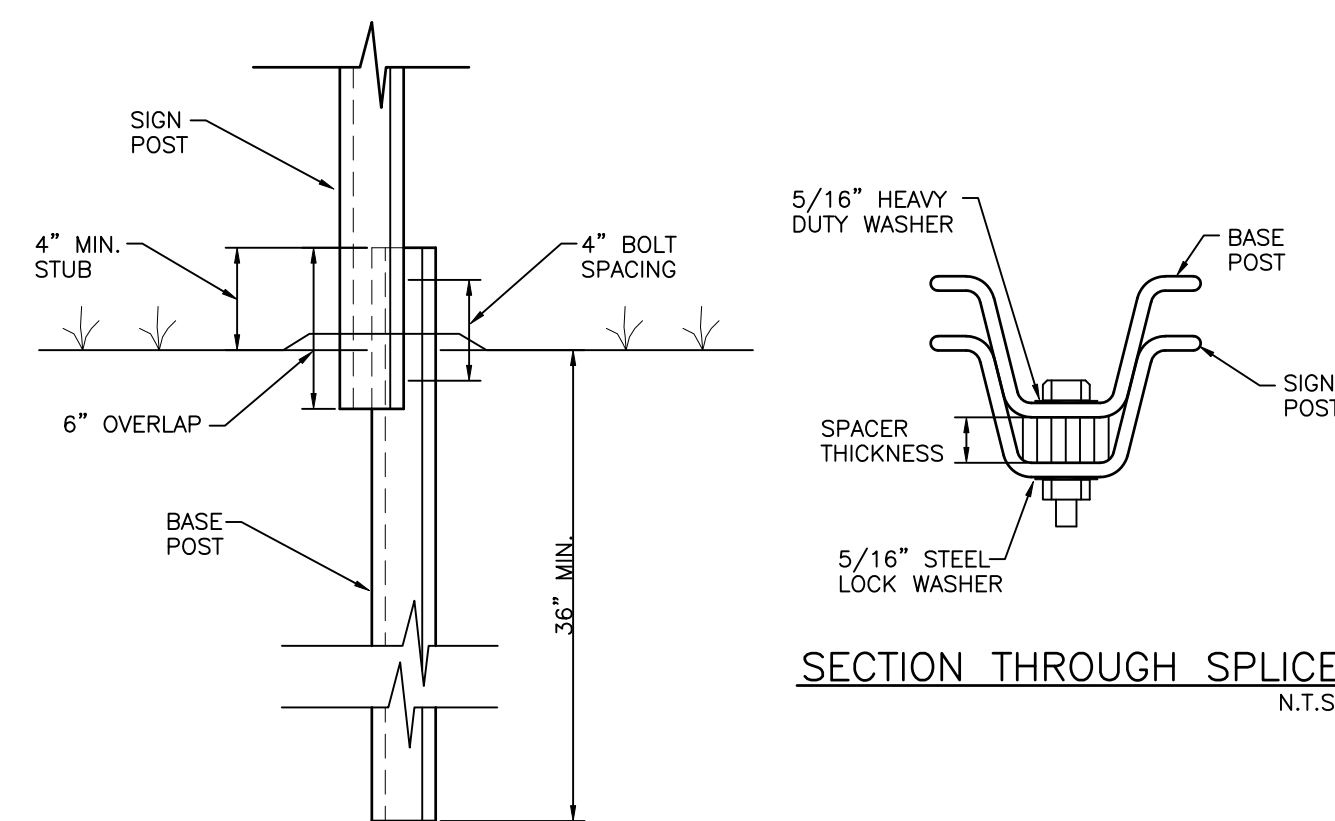
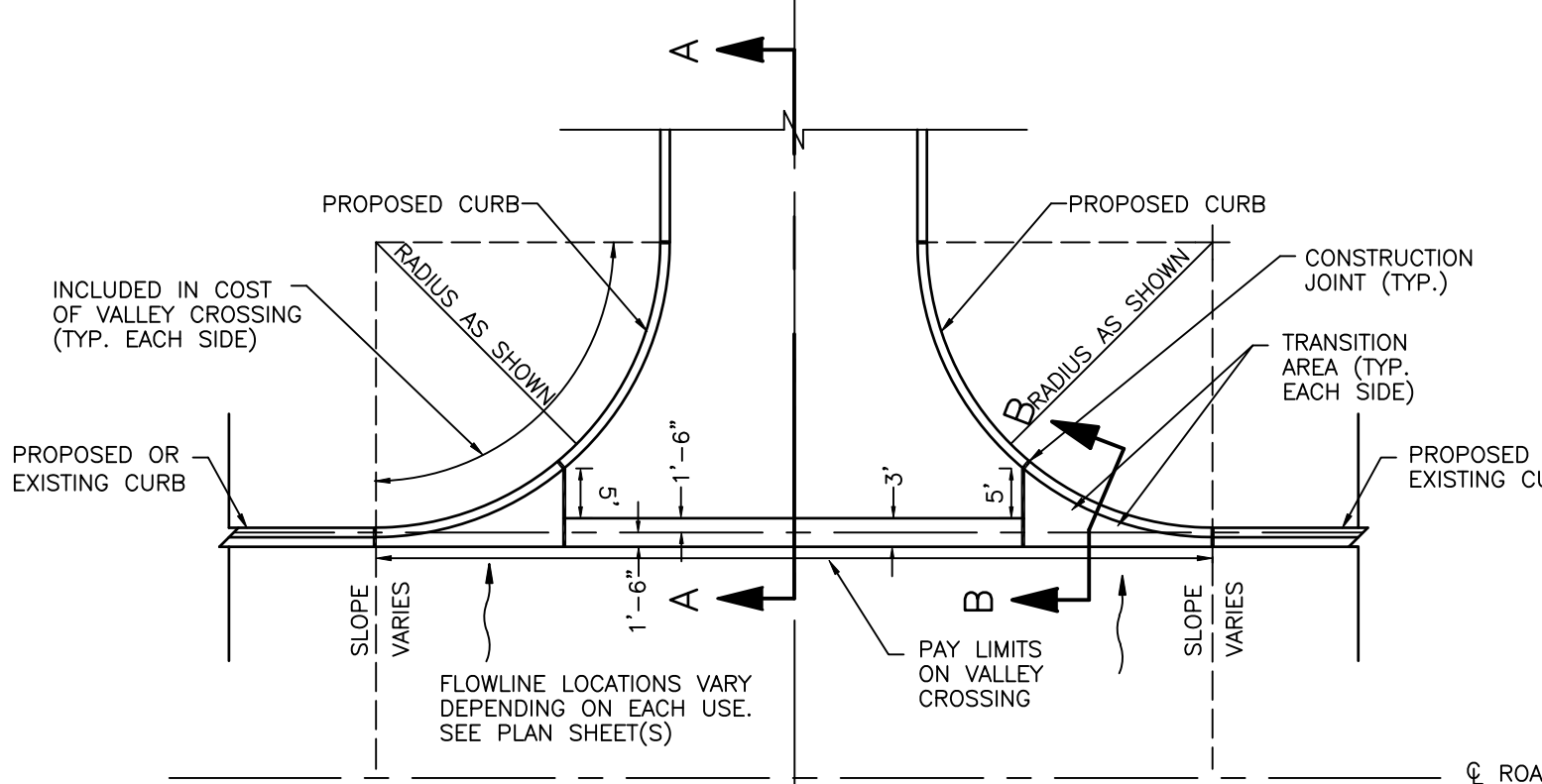
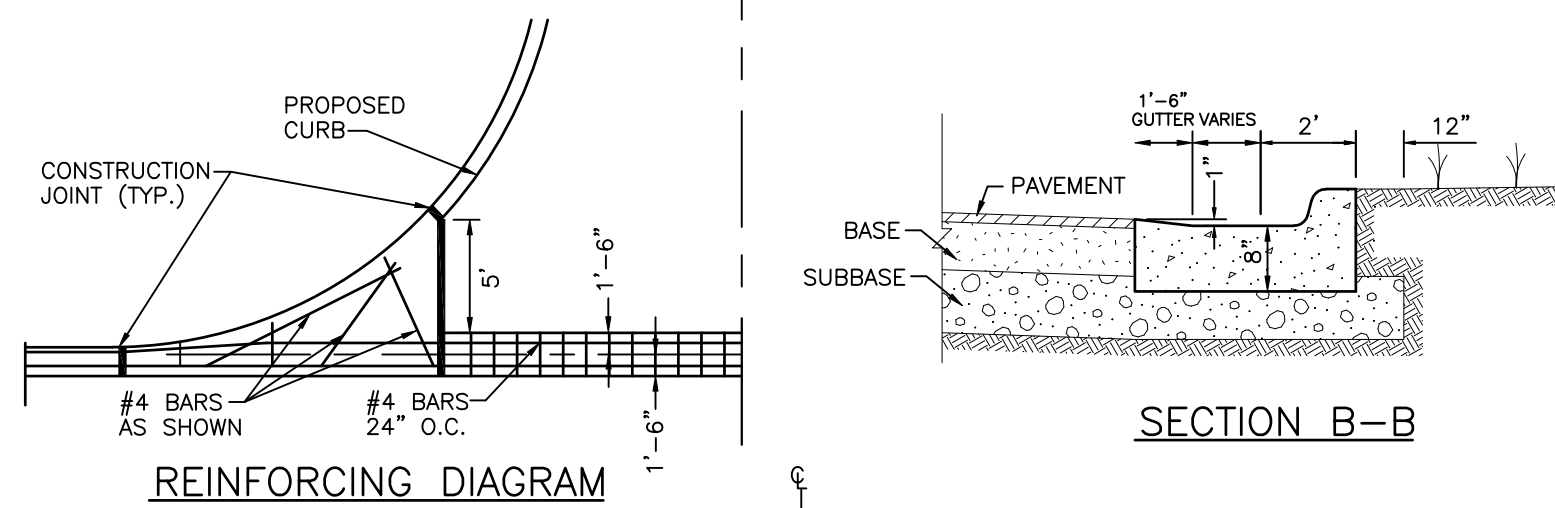
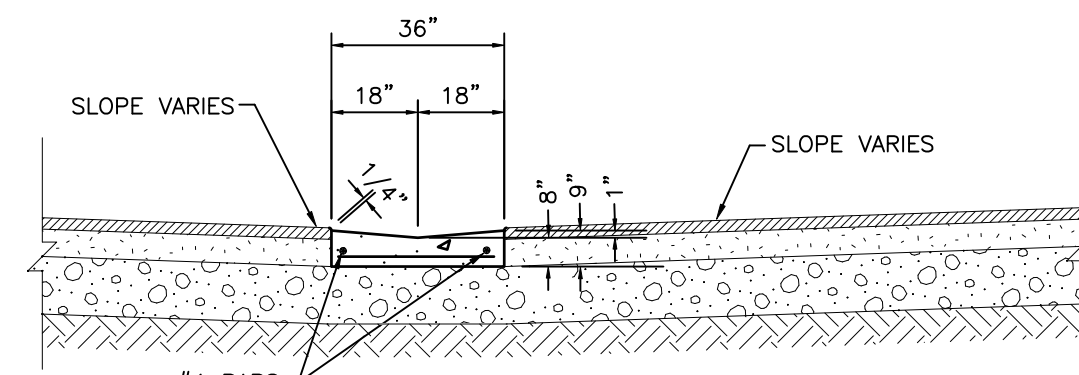
THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%. CONTRAST IN PERCENT IS DETERMINED BY:

$$\text{CONTRAST} = \frac{B1 - B2}{B1} \times 100$$

WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.

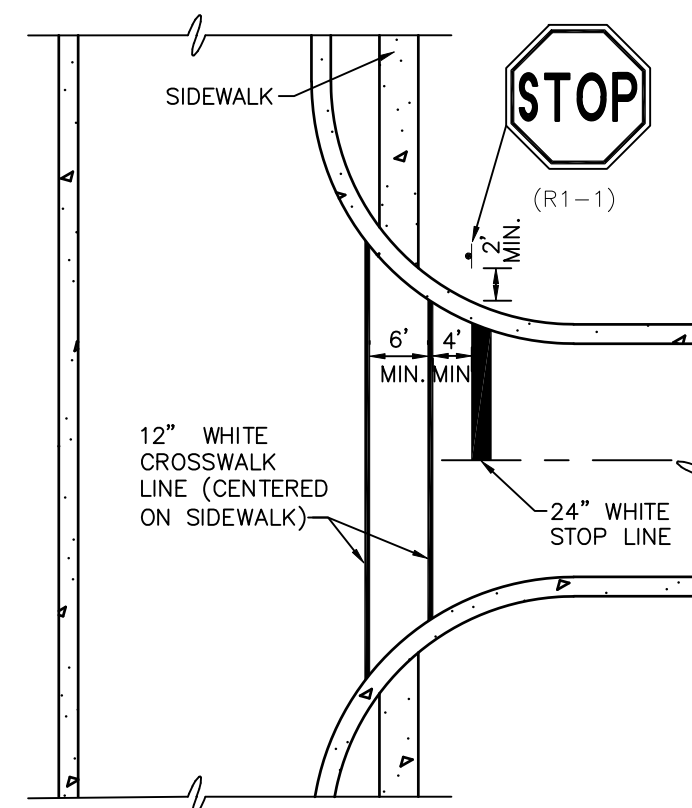
NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

**CURB RAMP DETECTABLE WARNINGS**  
N.T.S.



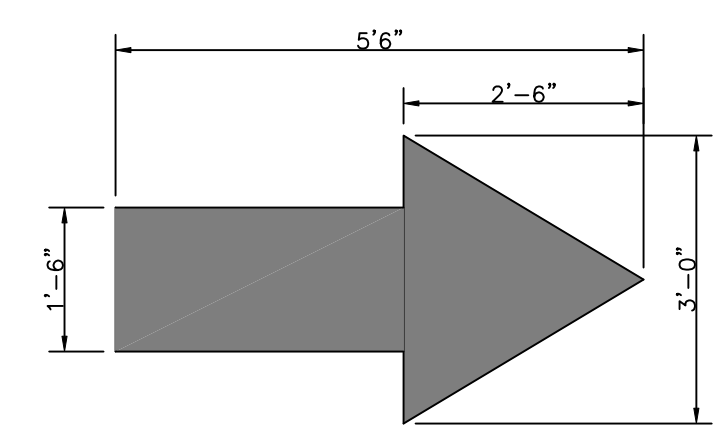
**NOTE:**  
ALL MATERIALS AS PER F.D.O.T. SPECIFICATIONS, INDEX NO. 11865, AND ALL APPLICABLE CITY REQUIREMENTS.

**SIGN POST BREAKAWAY DETAIL**  
N.T.S.

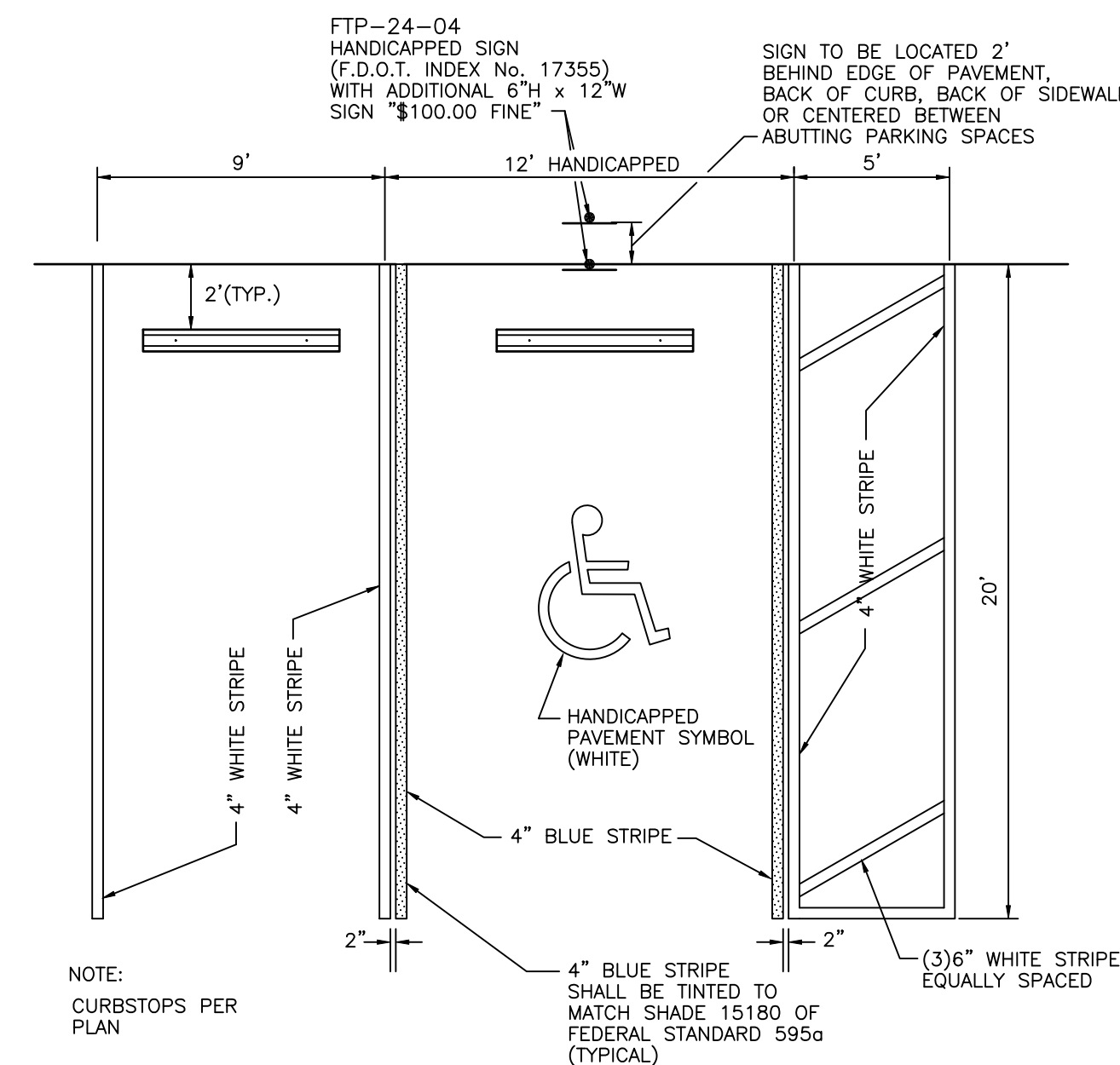


**STOP SIGN, STOP LINE AND CROSSWALK LOCATION DETAIL**  
N.T.S.

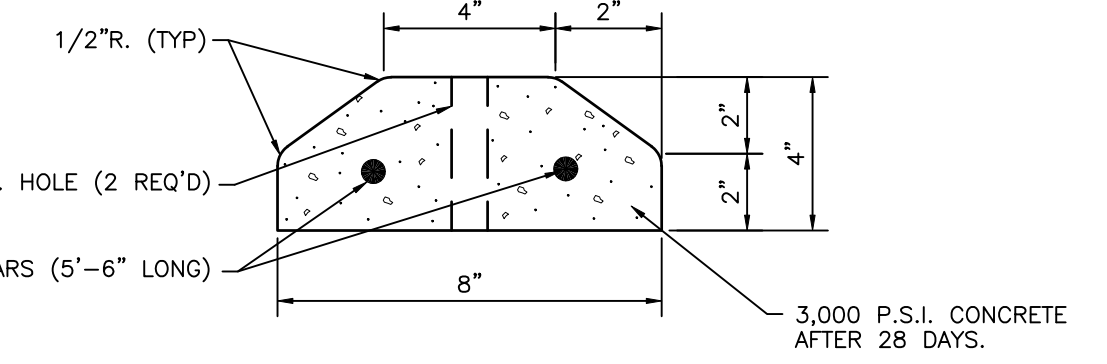
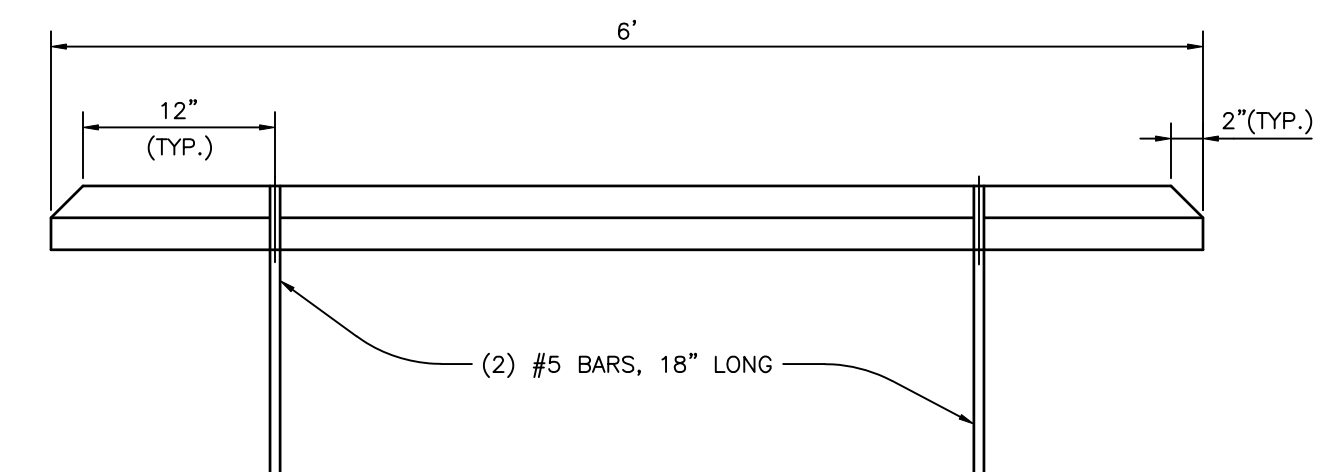
**NOTE:**  
ARROW TO BE PAINTED WHITE AND IN ACCORDANCE WITH FOOT SECTION 710 - PAINTING TRAFFIC STRIPES AND MARKINGS



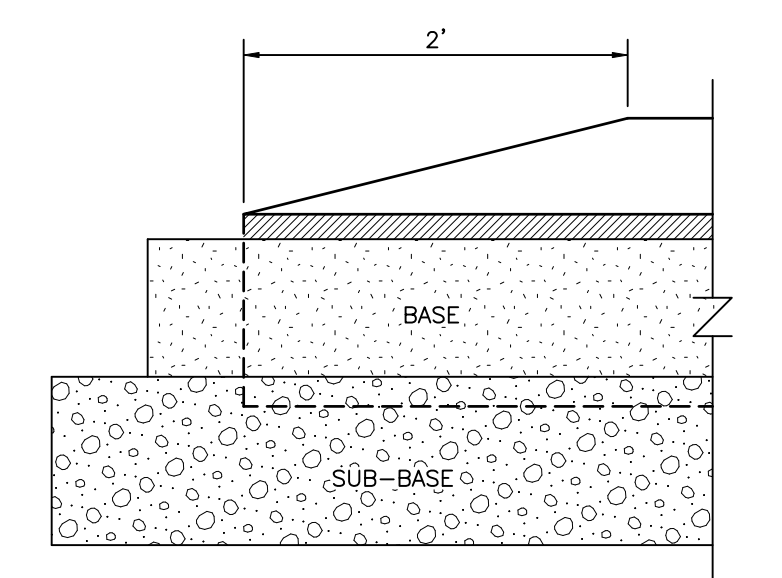
**DIRECTIONAL ARROW MARKING**  
N.T.S.



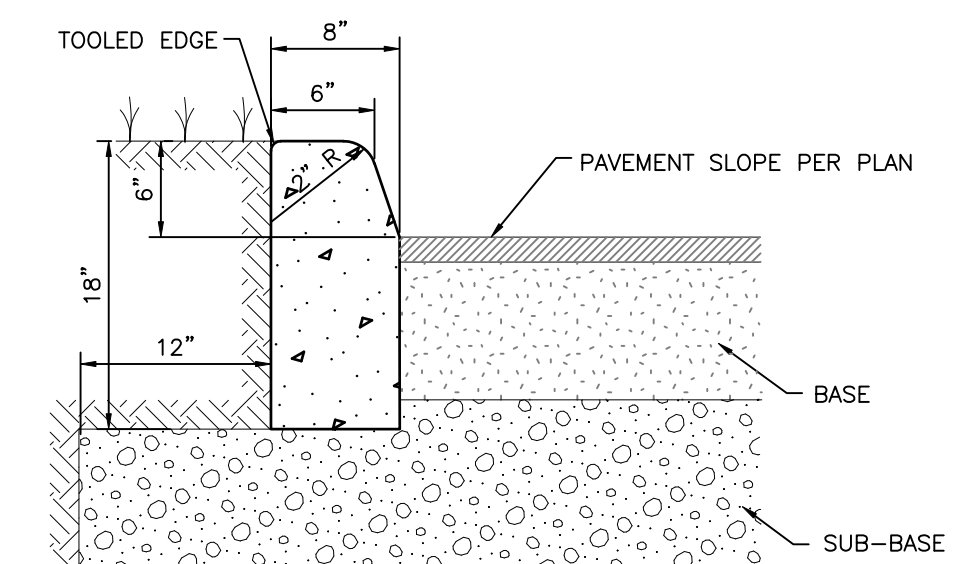
**TYPICAL PARKING SPACE**  
N.T.S.



**PRECAST CONCRETE WHEEL STOP**  
N.T.S.



**TYPE "D" CURB END TAPER**  
N.T.S.



**CURB NOTES:**

- CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 P.S.I. IN 28 DAYS UNLESS OTHERWISE NOTED.
- AN EXPANSION JOINT WILL BE PLACED AT THE END OF ALL RETURNS AT INTERVALS NOT TO EXCEED 50'. CONTRACTION JOINTS AT A MAXIMUM SPACING OF 10' SHALL BE SAW CUT AT DEPTH PER FDOT INDEX NO. 300.
- EXPANSION JOINTS SHALL BE CONSTRUCTED WITH 1/2" BITUMINOUS IMPREGNATED EXPANSION JOINT MATERIAL.

**TYPE "D" CURB**  
N.T.S.

(MANATEE)  
5-P040(09/03/02)

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	W/M APPROVED BY:



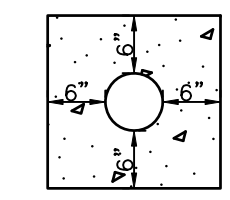
6900 Professional Parkway East, Sarasota, FL 34240  
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CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT:	BLACKSTONE PARK EXPANSION

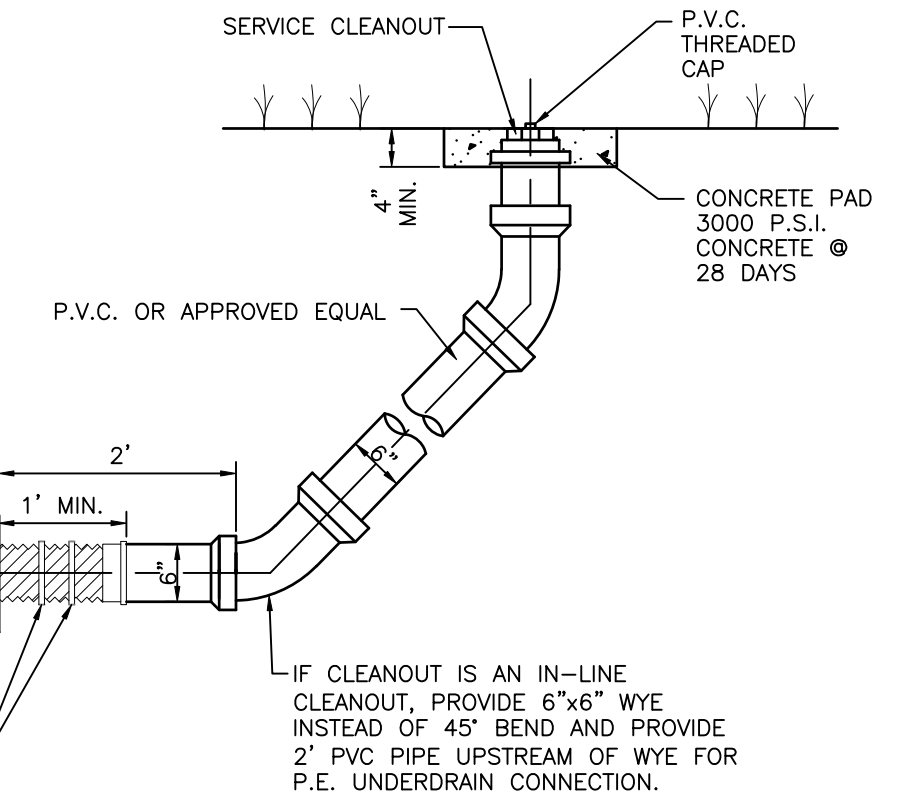
DATE:	DECEMBER 2012	TITLE:	PAVING DETAILS
HORIZONTAL SCALE:	AS SHOWN	CROSS REFERENCE FILE NO.:	PROJECT NUMBER:
VERTICAL SCALE:	AS SHOWN		215611237
SEC. TYP. SIZE:	11 3/4S 17E	SHEET NUMBER:	10 OF 19

DANIEL J. BOND, P.E.  
FLORIDA LICENSE NO. 57969  
INDEX NUMBER:  
D-215611237-010

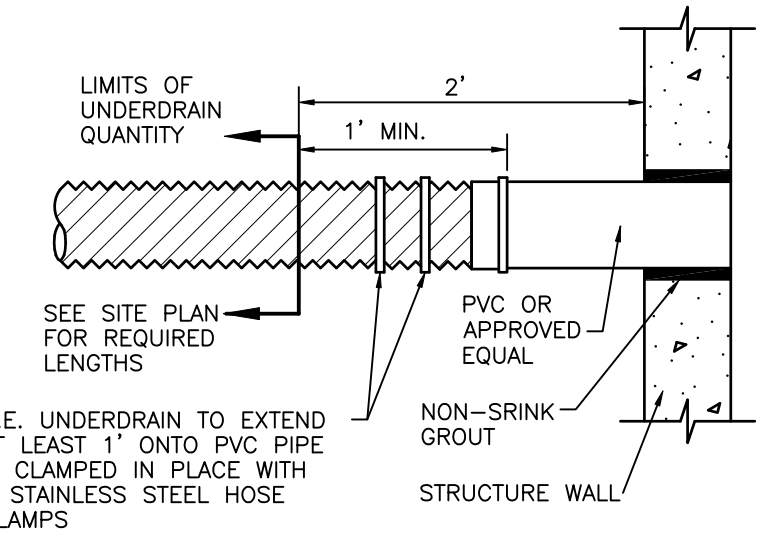




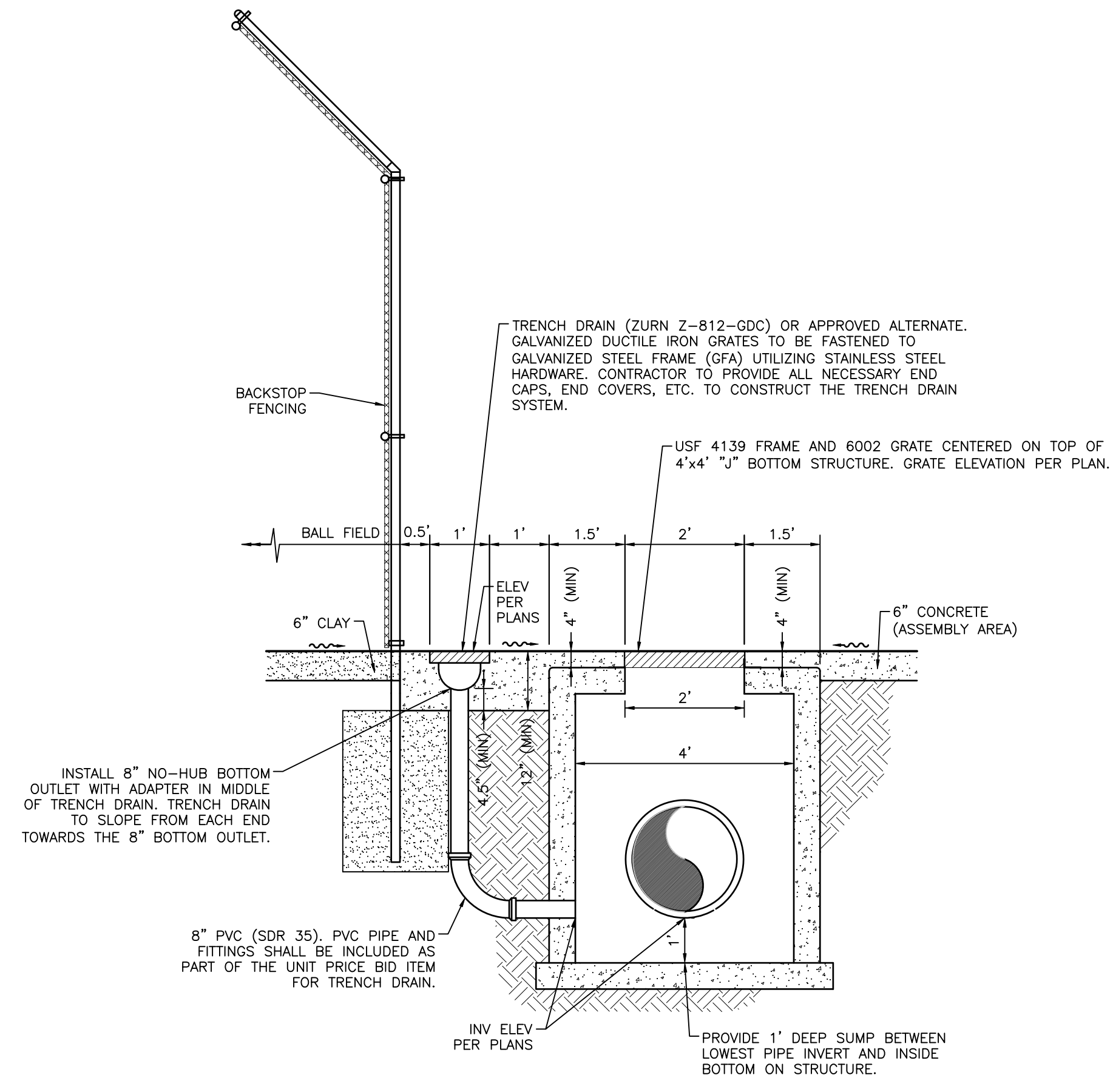
**CONCRETE PAD DETAIL**



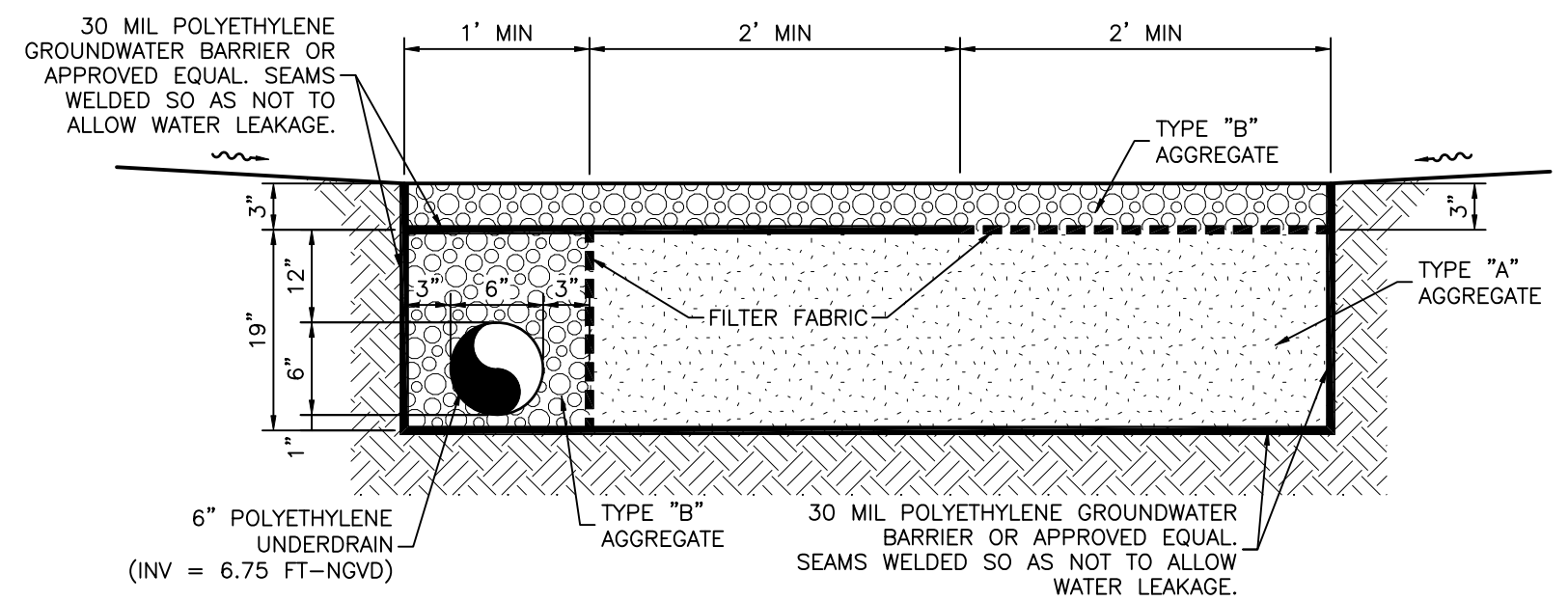
**CLEANOUT DETAIL FOR SINGLE UNDERDRAIN FILTER SYSTEM**  
N.T.S.



**TYPICAL CONNECTION FOR UNDERDRAIN TO STRUCTURE**  
N.T.S.

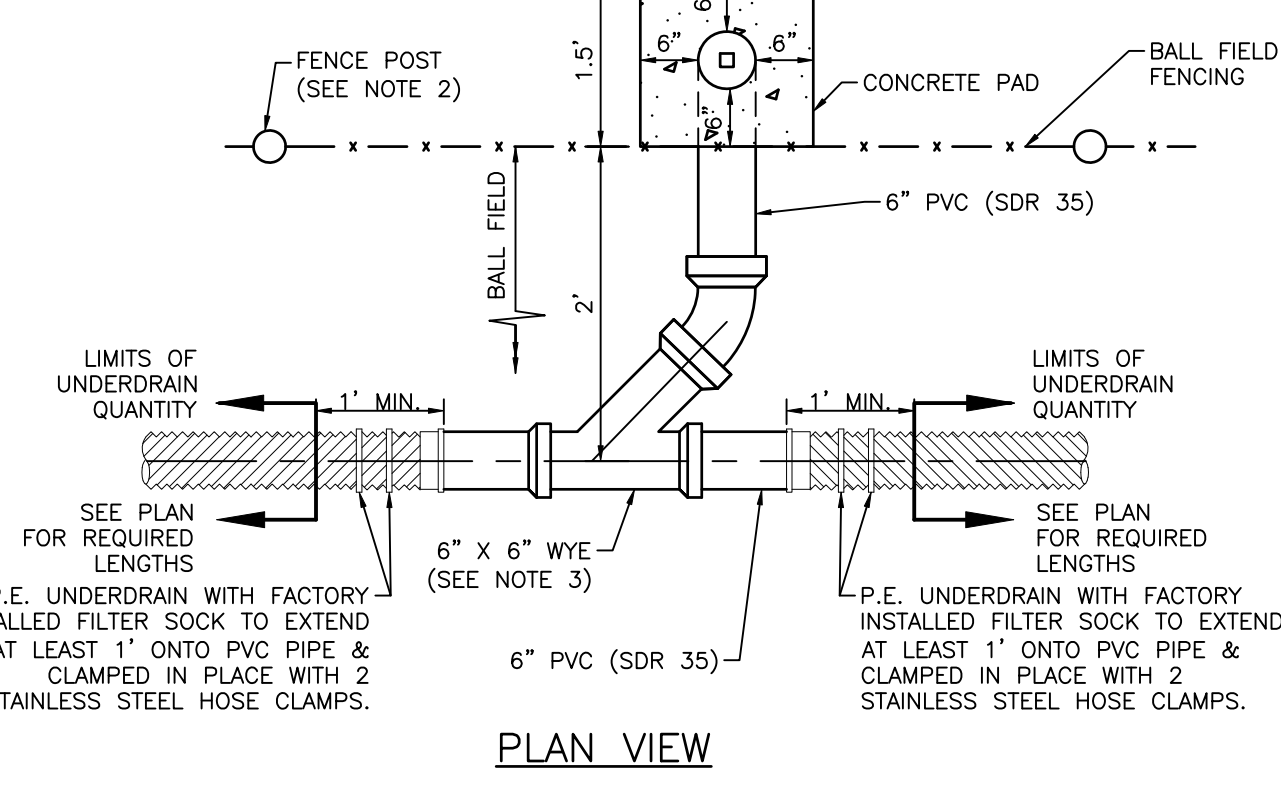


**TYPICAL TRENCH DRAIN DETAIL BEHIND BACKSTOP**  
N.T.S.

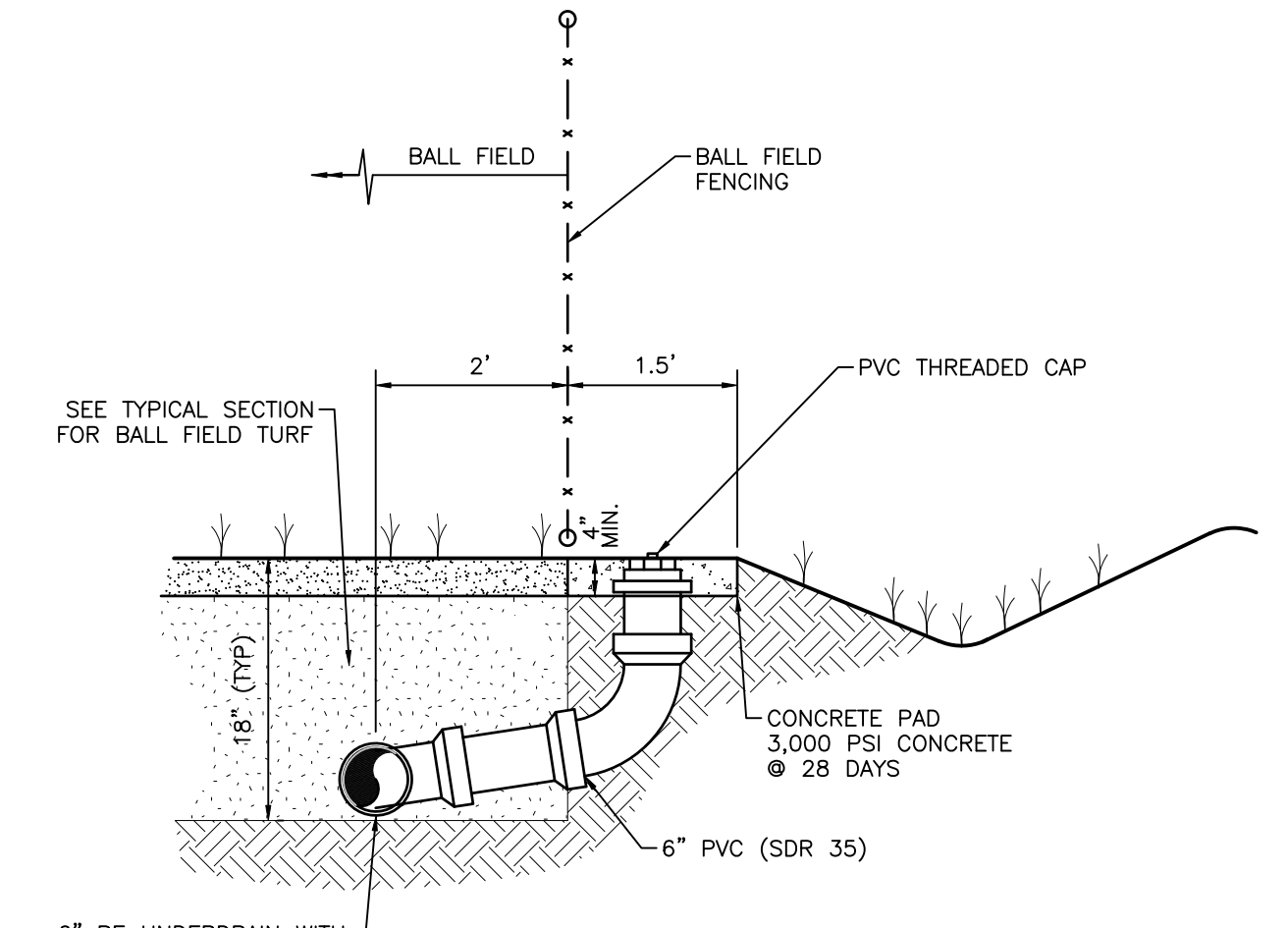


**UNDERDRAIN NOTES:**  
 TYPE "A" AGGREGATE: FILTER AGGREGATE FOR UNDERDRAINS SHALL CONSIST OF WASHED MATERIAL MEETING FDOT ROAD & BRIDGE SPECIFICATIONS FOR SILICA SAND & QUARTZ GRAVEL CONTAINING LESS THAN 1% (BY WEIGHT) OF SILT, CLAY AND ORGANIC MATTER. SAND MATERIAL SHALL HAVE UNIFORMITY COEFFICIENT OF 1.5 OR GREATER, AN EFFECTIVE GRAIN SIZE OF 0.20 = 0.55 MILLIMETER AND SIEVE ANALYSIS (IN PERCENT OF TOTAL WEIGHT PASSING) AS FOLLOWS:  
 3/8" = 95 - 100%  
 NO. 4 = 95 - 100%  
 NO. 6 = 85 - 100%  
 NO. 16 = 65 - 97%  
 NO. 30 = 25 - 70%  
 NO. 50 = 5 - 35%  
 NO. 100 = 0 - 7%  
 NO. 200 = MAX. 1%  
 THE AGGREGATE SHALL BE FREE OF ORGANIC MATTER AND OTHER DELETERIOUS MATERIALS. WASHED SHELL & LIMESTONE SHALL NOT BE USED FOR FILTER AGGREGATE. PERMEABILITY OF THE AGGREGATE SHALL BE MINIMUM OF 8 FT/HR.  
 TYPE "B" AGGREGATE: 3/4" TO 1" STONE, RIVER GRAVEL OR EQUAL (NO LIMESTONE, MARL, OR SIMILAR MATERIAL).  
 FILTER FABRIC: FILTER FABRIC SHALL BE WOVEN GEOTEXTILE, AMOCO 1198 SYNTHETIC INDUSTRIES EROSION 1 OR APPROVED EQUAL.  
 UNDERDRAIN: THE UNDERDRAIN SHALL BE SLOTTED POLYETHYLENE CORRUGATED PIPE A.S.T.M F-405-77 OR A.A.S.H.T.O. M-252 HAVING A MINIMUM SLOTTED AREA OF 1 SQ. IN./FT. OF PIPE MANUFACTURED BY A.D.S. OR HANGOR. NO FACTORY INSTALLED SOCK SHALL BE INSTALLED WITH THIS UNDERDRAIN.  
 TESTING: THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIEVE ANALYSIS & PERCOLATION TEST RESULTS PERFORMED BY AN INDEPENDENT TESTING LABORATORY PRIOR TO DELIVERY OF THE FILTER AGGREGATE MATERIAL ON SITE. FAILURE TO MEET THE SPECIFIED PERMEABILITY OR SIEVE ANALYSIS WILL BE CAUSE FOR REJECTION OF THE MATERIAL. THE CONTRACTOR SHALL ALSO PROVIDE THE ENGINEER WITH SIEVE ANALYSIS & PERCOLATION TEST RESULTS OF THE FILTER AGGREGATE RECEIVED AT THE SITE PRIOR TO IT BEING PUT IN PLACE. THIS TEST SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY.

**TYPICAL SHALLOW BOTTOM TREATMENT UNDERDRAIN**  
N.T.S.



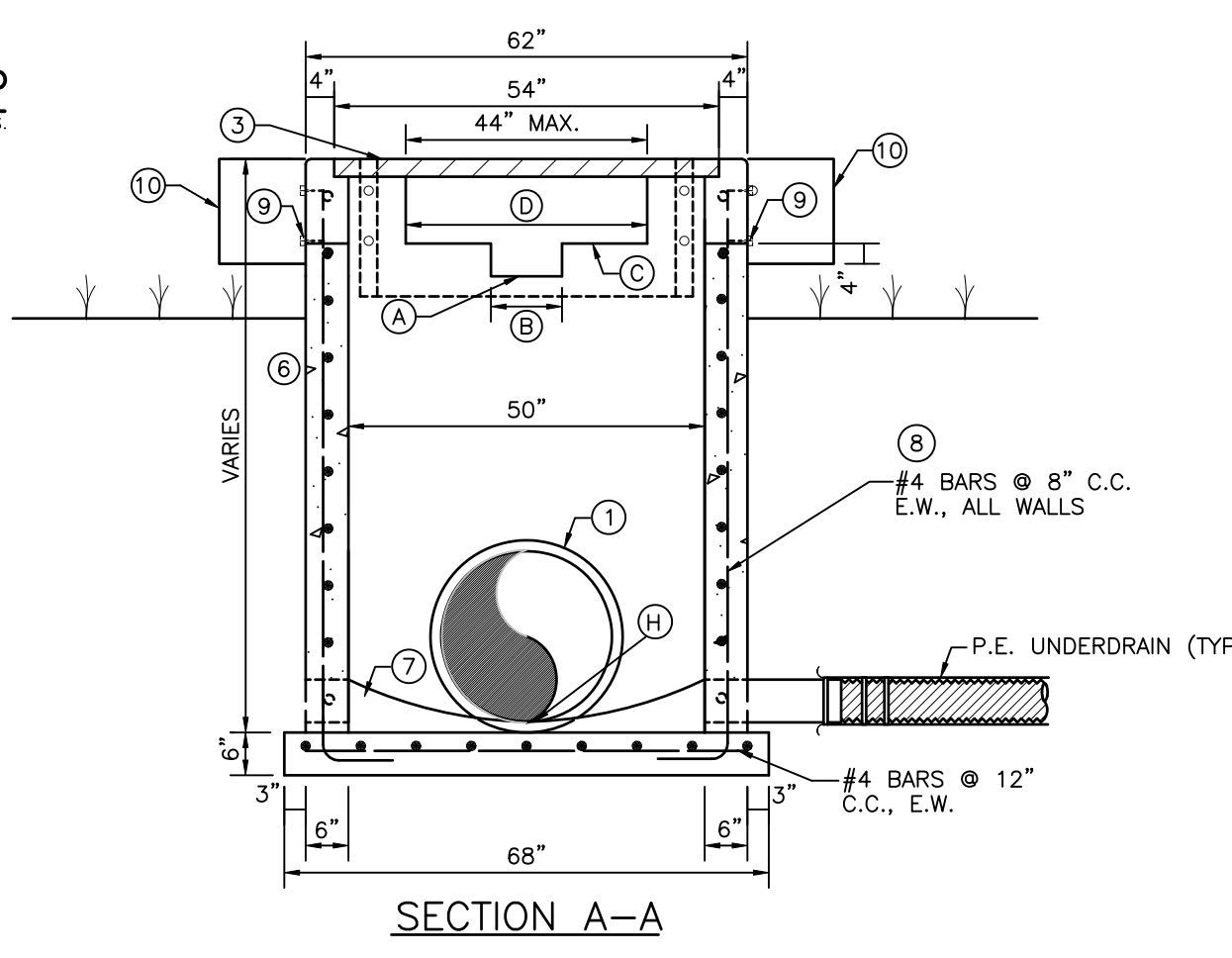
**PLAN VIEW**



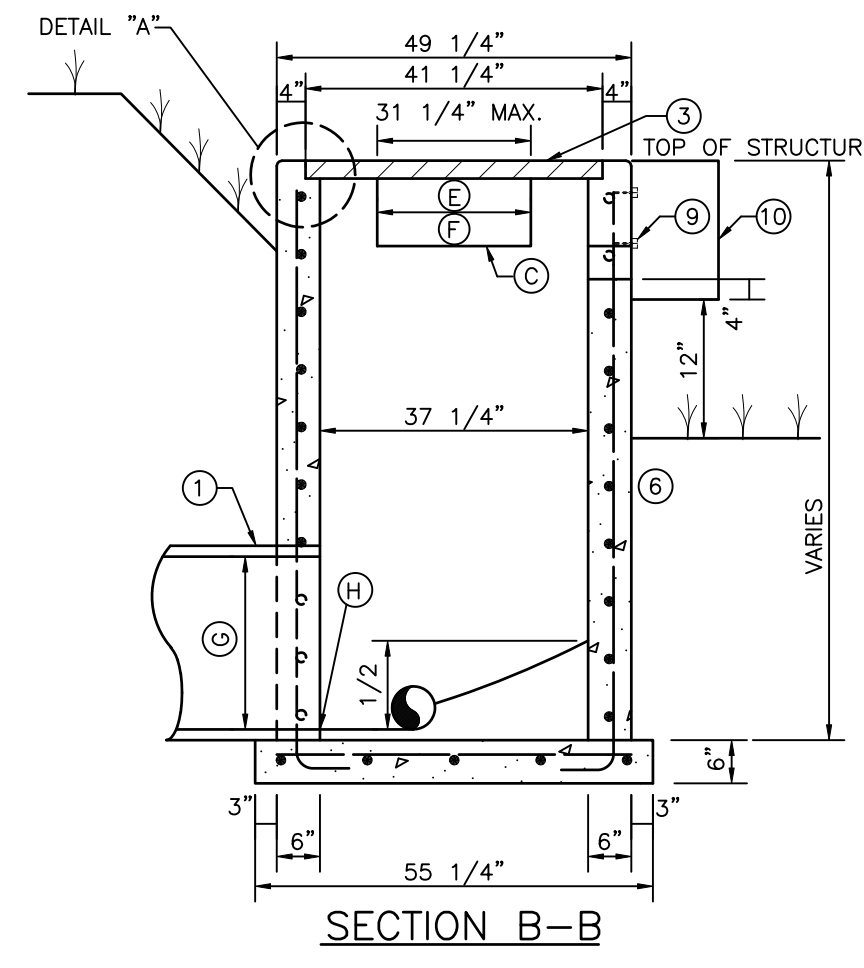
**PROFILE VIEW**

- NOTES:**
- UNDERDRAIN SHALL BE SLOTTED POLYETHYLENE CORRUGATED PIPE PER ASTM F-405-77 OR AASHTO M-252 HAVING A MINIMUM SLOTTED AREA OF 1 SQ.IN./FT OF PIPE MANUFACTURED BY ADS (OR APPROVED ALTERNATE).
  - CONTRACTOR TO FIELD ADJUST CLEANOUT LOCATIONS AS NEEDED TO AVOID FENCE POSTS.
  - 6" X 6" WYE TO BE REPLACED WITH 6" X 6" TEE (TWO WAY CLEANOUT STYLE) ONLY WHERE SPECIFICALLY CALLED FOR ON THE PLANS.

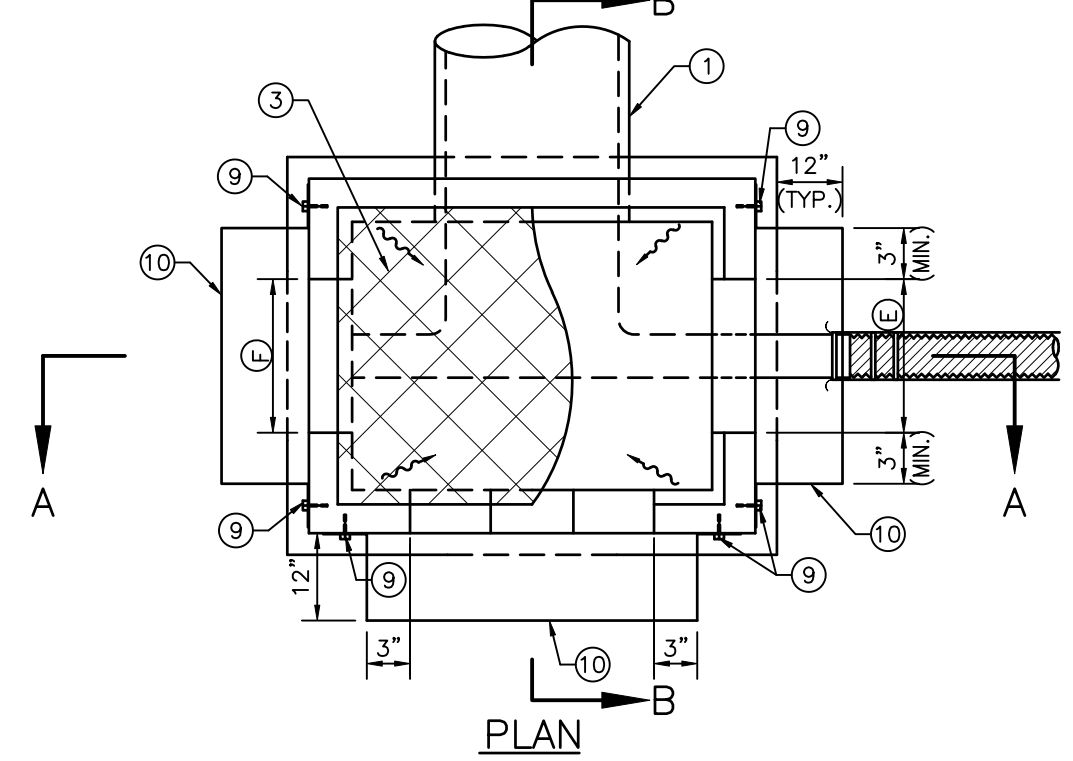
**BALL FIELD UNDERDRAIN/UNDERDRAIN CLEANOUT DETAIL**  
N.T.S.



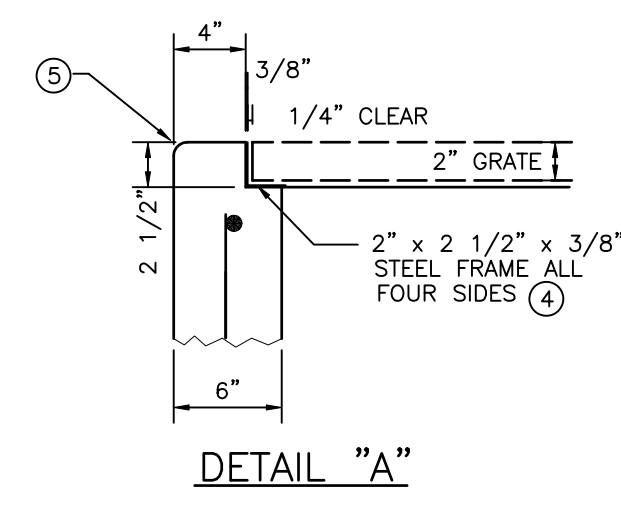
**SECTION A-A**



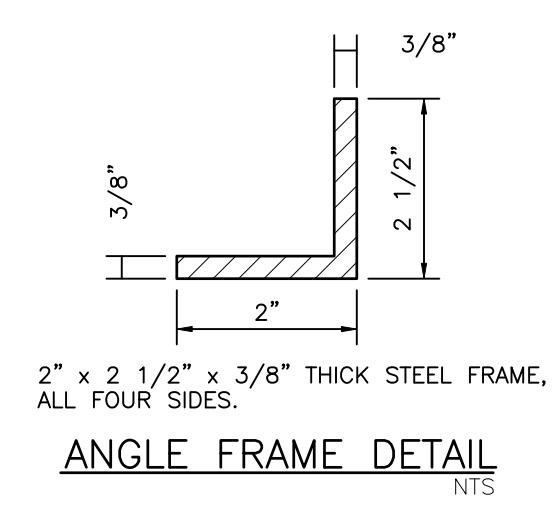
**SECTION B-B**



**PLAN**



**DETAIL "A"**



**ANGLE FRAME DETAIL**  
N.T.S.

- NOTES:**
- SEE STORM PIPING PLAN DRAWINGS FOR PIPE SIZE, ALIGNMENT, FLOWLINE AND GRATE ELEVATIONS.
  - BENCH MARK REQUIRED TO BE SET ON STRUCTURE AFTER CONSTRUCTION IS COMPLETE. ELEVATION TO BE NOTED IN RECORD DRAWINGS.
  - U.S.F. GRATE NO. 6615 (STEEL 40" x 52 11/16" x 2")
  - FRAME & GRATE SHALL BE OF STEEL CONSTRUCTION COATED WITH 2 APPLICATIONS OF BLACK ENAMEL 4.0 MILS DRY FILM THICKNESS EACH COAT, 8 MILS TOTAL COATING SHALL MEET OR EXCEED FOOT SPECIFICATION 971-8. CONTRACTOR SHALL APPLY ONE FIELD COAT TO ANY BARE AREAS AS DETERMINED BY ENGINEER.
  - 3/4" CHAMFER ALL EXPOSED EDGES.
  - 3000 PSI CONCRETE @ 28 DAYS SHALL BE USED THROUGHOUT.
  - POURED CONCRETE INVERT AFTER INLET AND PIPE PLACED IN GROUND, 3000 PSI @ 28 DAYS.
  - REINFORCING STEEL SHALL BE INTERMEDIATE GRADE BILLET WITH DEFORMATIONS CONFORMING TO ASTM A-615-76A. ALL STEEL SHALL BE 1 1/2" CLEAR UNLESS OTHERWISE NOTED.
  - 3/8" DIAMETER STAINLESS STEEL EXPANSION ANCHORS, 3" LONG MINIMUM WITH STAINLESS STEEL WASHERS AND NUTS. IF HEIGHT OF SKIMMER IS 12" OR LESS, 2 EACH SIDE REQUIRED. IF SKIMMER IS OVER 12" HEIGHT, SPACE BOLTS ONE FOR EACH 6" C.C. MAXIMUM SPACING EACH SIDE OF SKIMMER.
  - 3/16" THICK STAINLESS STEEL, 1/4" THICK ALUMINUM OR 3/16" "GLASKIMER" HSS-HIGH STRENGTH COMPOSITE SHEET SKIMMER PLATE WITH OPEN TOP AND BOTTOM. SKIMMER TO EXTEND 4" BELOW NOTCH ELEVATION.
  - STAKEOUT POINT TO BE CENTER OF STRUCTURE. FIELD LOCATION TO FIT LAKE BANK OR FILL SLOPE MAY BE NECESSARY. LOCATION TO BE REVIEWED BY ENGINEER OR HIS REPRESENTATIVE.
  - PROVIDE MINIMUM 6" CLEARANCE UNDER SKIMMER.

**DATA TABLE**

STRUCTURE NUMBER	NORMAL WATER LEVEL (FT-NGVD)	TOP GRATE EL. (FT-NGVD)	(A) FL. EL. OF NOTCH (FT-NGVD)	(B) WIDTH OF NOTCH (FT)	(C) FL. EL. OF WINDOW (FT-NGVD)	(D) WIDTH OF WINDOW (FT)	(E) WIDTH OF WINDOW (FT)	(F) WIDTH OF WINDOW (FT)	(G) DIAMETER OF OUTFALL PIPE (IN)	(H) PIPE FL. EL. (FT-NGVD)	SPECIAL REMARKS
SCS-1	N/A	11.40	N/A	N/A	8.84	0.36	N/A	N/A	30	4.70	SKIMMER REQUIRED ALL WINDOWS UNDERDRAIN REQUIRED (INV = 6.75 FT-NGVD)

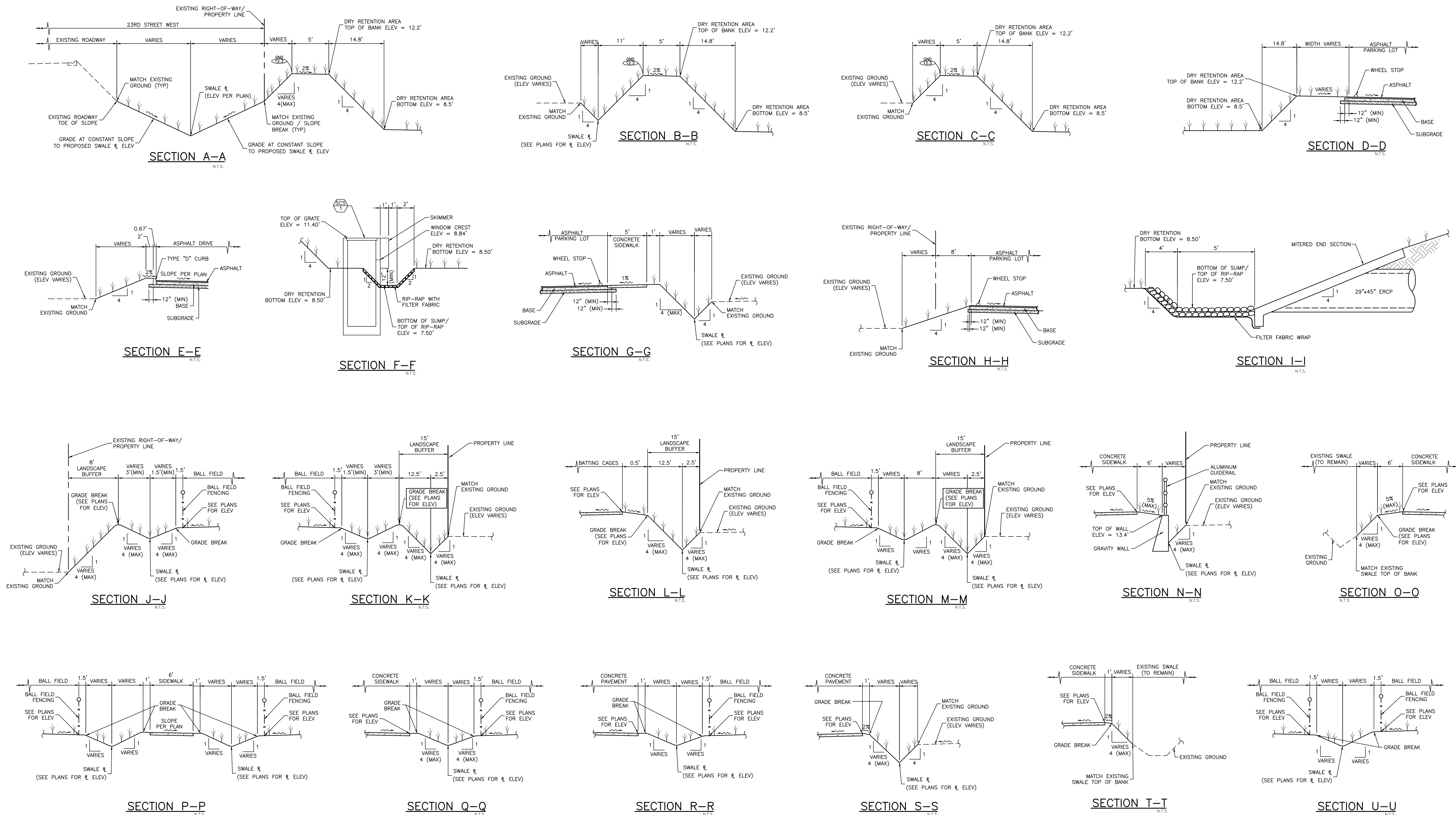
**TYPE "G" CONTROL STRUCTURE**  
N.T.S.

REV. NO.	REVISION	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	CONTRACT ADMIN. BY	W.M. APPROVED BY

**WilsonMiller Stantec**  
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CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS  
 PROJECT: BLACKSTONE PARK EXPANSION  
 DATE: DECEMBER 2012  
 HORIZONTAL SCALE: AS SHOWN  
 VERTICAL SCALE: AS SHOWN  
 SEC. TWP. RSE: 11 34S 17E

TITLE: DRAINAGE DETAILS  
 CROSS REFERENCE FILE NO.:  
 PROJECT NUMBER: 215611237  
 SHEET NUMBER: 12 OF 19  
 D-215611237-012  
 DANIEL J. BOND, P.E. FLORIDA LICENSE NO. 57969



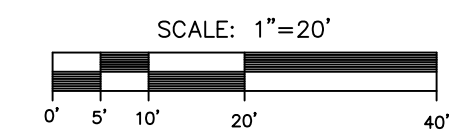
**NOTE: CONTRACTOR SHALL REFER TO THE LANDSCAPE PLANS FOR FINAL GROUND COVER MATERIALS AND LIMITS OUTSIDE THE BALL FIELDS**

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:

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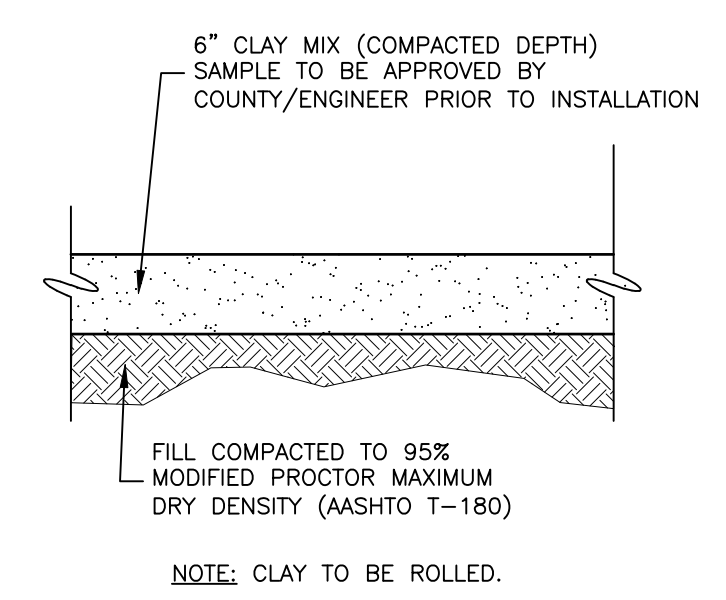
CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT:	BLACKSTONE PARK EXPANSION

DATE:	DECEMBER 2012	TITLE:	CROSS SECTIONS
HORIZONTAL SCALE:	AS SHOWN	CROSS REFERENCE FILE NO.:	PROJECT NUMBER: 215611237
VERTICAL SCALE:	AS SHOWN	SHEET NUMBER:	D-215611237-013
SEC. TYP. / SHEET:	11 34S 17E	SHEET NUMBER:	13 OF 19



**LEGEND**

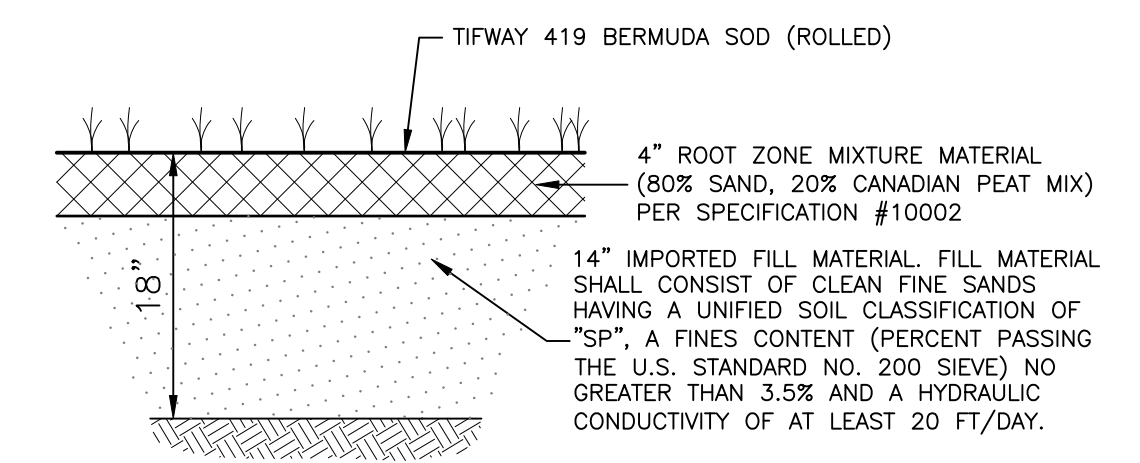
- CONCRETE PAD FOR DUGOUTS AND BLEACHERS (SEE DUGOUTS AND BLEACHERS DETAILS)
- INFIELD CLAY
- GRASS AREA (TIFWAY 419 BERMUDA ROLLED SOD)
- CHAIN LINK FENCE (SEE TYPICAL BALL FIELD FENCING PLAN AND DETAILS)
- BACKSTOP FENCE (SEE TYPICAL BALL FIELD FENCING PLAN AND DETAILS)



**CLAY SECTION**  
N.T.S.

**NOTES:**

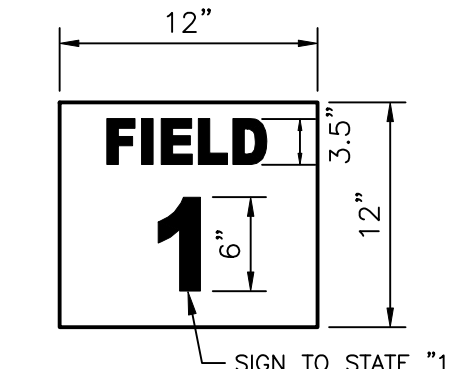
1. CLAY COMPOSITION SHALL BE NO LESS THAN 80% CLAY/20% SAND, MIX AS SUPPLIED BY TURBO LINK INTERNATIONAL INC. OR APPROVED ALTERNATE. BALL FIELD CLAY SHALL BE WELL GRADED CLAYEY SAND ("SC") WITH BETWEEN 17.5% AND 22.5% OF MATERIAL PASSING A #200 SIEVE. NO MATERIAL TO BE RETAINED ON A #10 SIEVE. SUBMIT 2 GALLON SAMPLE AND SIEVE ANALYSIS (ASTM C136 AND D422) FROM AN INDEPENDENT TESTING COMPANY TO ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIAL.
2. MATERIALS AND INSTALLATION PROCEDURES SHALL BE SUBJECT TO ENGINEERS REVIEW AND APPROVAL PRIOR TO COMMENCEMENT.
3. GRADING SHALL BE AS PER PAVING AND DRAINAGE PLAN.



**TYPICAL SECTION FOR BALL FIELD TURF**  
N.T.S.

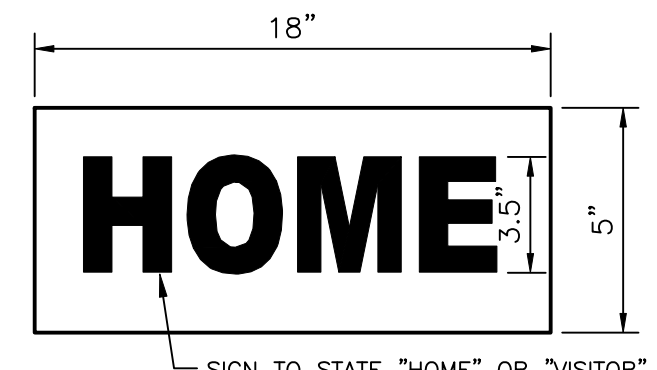
**TESTING:**

1. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIEVE ANALYSIS, UNIFIED SOIL CLASSIFICATION, AND PERCOLATION TEST RESULTS PERFORMED BY AN INDEPENDENT TESTING LABORATORY PRIOR TO THE ONSITE DELIVERY OF THE 14" IMPORTED FILL MATERIAL UNDERNEATH THE BALL FIELD TURF. FAILURE TO MEET THE SPECIFIED HYDRAULIC CONDUCTIVITY, SOIL CLASSIFICATION, OR SIEVE ANALYSIS WILL BE CAUSE FOR REJECTION OF THE MATERIAL. THE FREQUENCY OF TESTING SHALL BE A MINIMUM OF 1 TEST REPORT FOR EVERY 450 CY OF FILL MATERIAL TO BE BROUGHT TO THE SITE.
2. PRIOR TO INSTALLATION OF THE BALL FIELD SOD, THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH SIEVE ANALYSIS, UNIFIED SOIL CLASSIFICATION, AND PERCOLATION TEST RESULTS PERFORMED BY AN INDEPENDENT TESTING LABORATORY OF THE IN-PLACE 14" IMPORTED FILL MATERIAL. FAILURE TO MEET THE SPECIFIED HYDRAULIC CONDUCTIVITY, SOIL CLASSIFICATION, OR SIEVE ANALYSIS WILL BE CAUSE FOR REJECTION OF THE MATERIAL. THE FREQUENCY OF TESTING SHALL BE A MINIMUM OF 5 TEST REPORTS FOR EACH BALL FIELD.



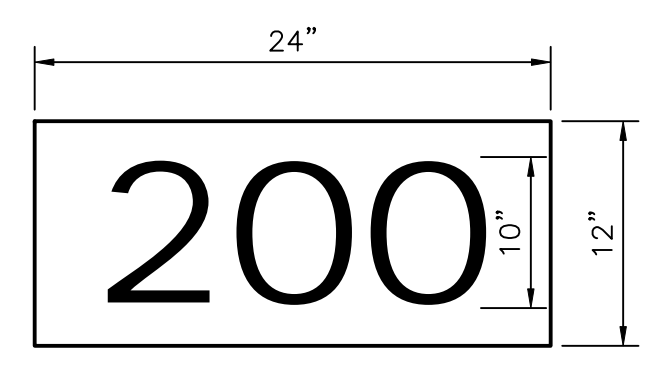
SIGN MATERIAL SHALL BE ALUMINUM. LETTERS AND BACKGROUND SHALL BE OF A REFLECTIVE MATERIAL. LETTERS ARE TO BE DARK GREEN ON A WHITE BACKGROUND. SIGNS SHALL BE MOUNTED ON FENCE WITH BOLTS AND BACK PLATES (EACH CORNER). MOUNTING HEIGHT SHALL BE 11' FROM BOTTOM OF SIGN TO FINISHED GRADE. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF SIGN FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

**BALL FIELD IDENTIFICATION SIGN DETAIL**  
N.T.S.



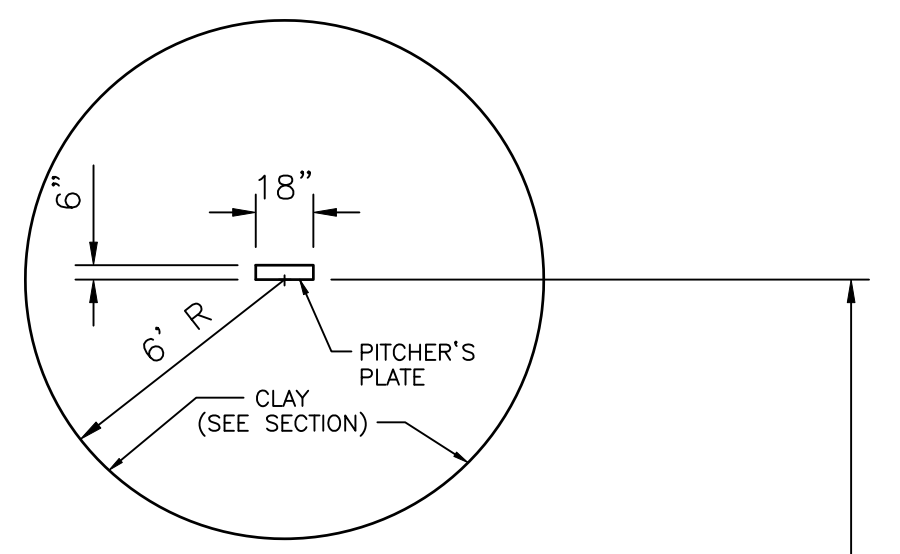
SIGN MATERIAL SHALL BE ALUMINUM. LETTERS AND BACKGROUND SHALL BE OF A REFLECTIVE MATERIAL. LETTERS ARE TO BE DARK GREEN ON A WHITE BACKGROUND. SIGNS SHALL BE MOUNTED ON FENCE WITH BOLTS AND BACK PLATES (EACH CORNER). MOUNTING HEIGHT SHALL BE 5' FROM BOTTOM OF SIGN TO FINISHED GRADE. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF SIGN FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

**HOME/VISITOR SIGN DETAIL**  
N.T.S.

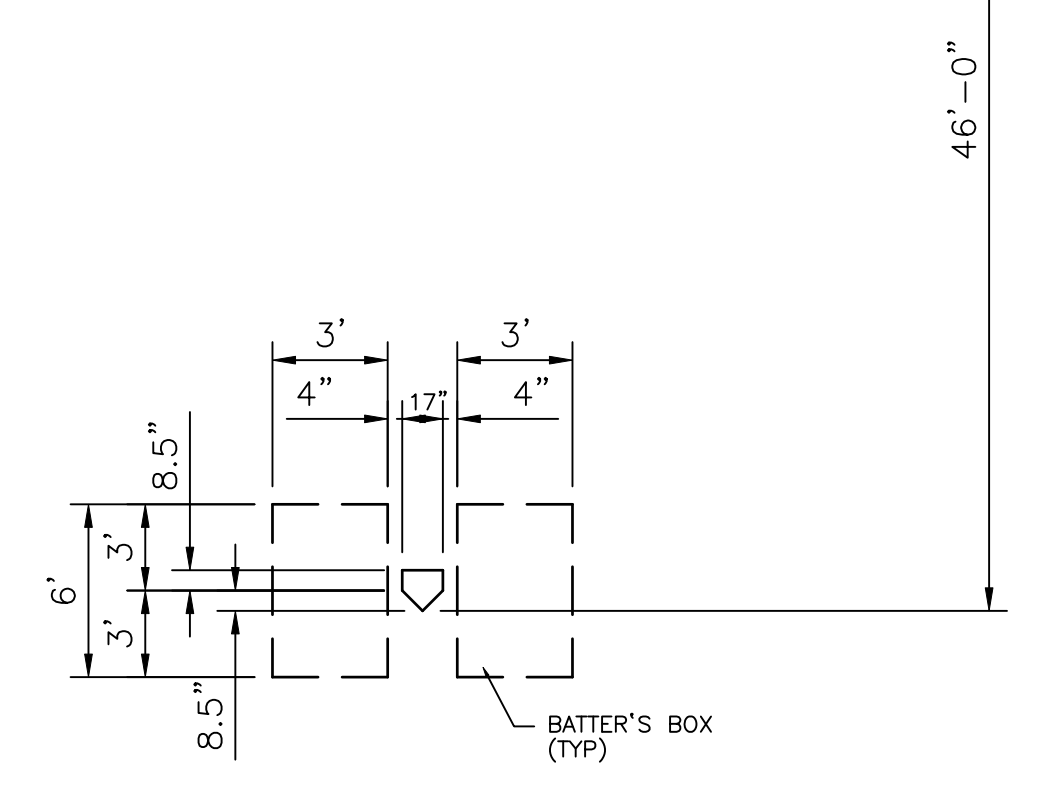


SIGN MATERIAL SHALL BE ALUMINUM. LETTERS AND BACKGROUND SHALL BE OF A REFLECTIVE MATERIAL. LETTERS ARE TO BE WHITE ON A DARK GREEN BACKGROUND. DISTANCES FOR SIGNS ARE AS SHOWN (ONE SIGN PER FIELD). SIGNS SHALL BE MOUNTED ON FENCE WITH BOLTS AND BACK PLATES (EACH CORNER). MOUNTING HEIGHT SHALL BE 4' FROM TOP OF SIGN TO FINISHED GRADE. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF SIGN FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

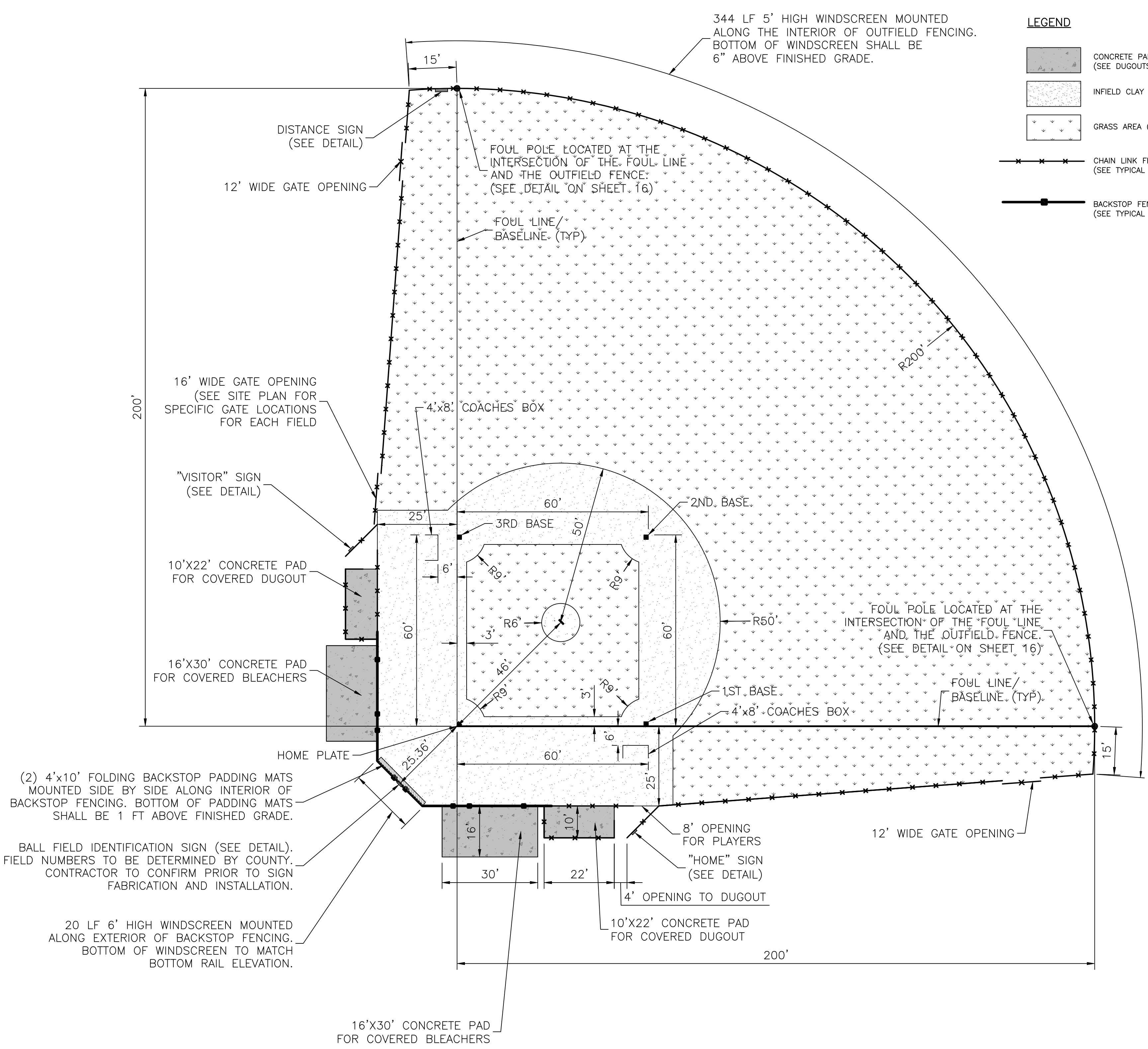
**DISTANCE SIGN DETAIL**  
N.T.S.



**PITCHER'S MOUND**  
N.T.S.



**HOME PLATE / PITCHER'S MOUND DETAIL**  
N.T.S.



(2) 4'x10' FOLDING BACKSTOP PADDING MATS MOUNTED SIDE BY SIDE ALONG INTERIOR OF BACKSTOP FENCING. BOTTOM OF PADDING MATS SHALL BE 1 FT ABOVE FINISHED GRADE.

BALL FIELD IDENTIFICATION SIGN (SEE DETAIL). FIELD NUMBERS TO BE DETERMINED BY COUNTY. CONTRACTOR TO CONFIRM PRIOR TO SIGN FABRICATION AND INSTALLATION.

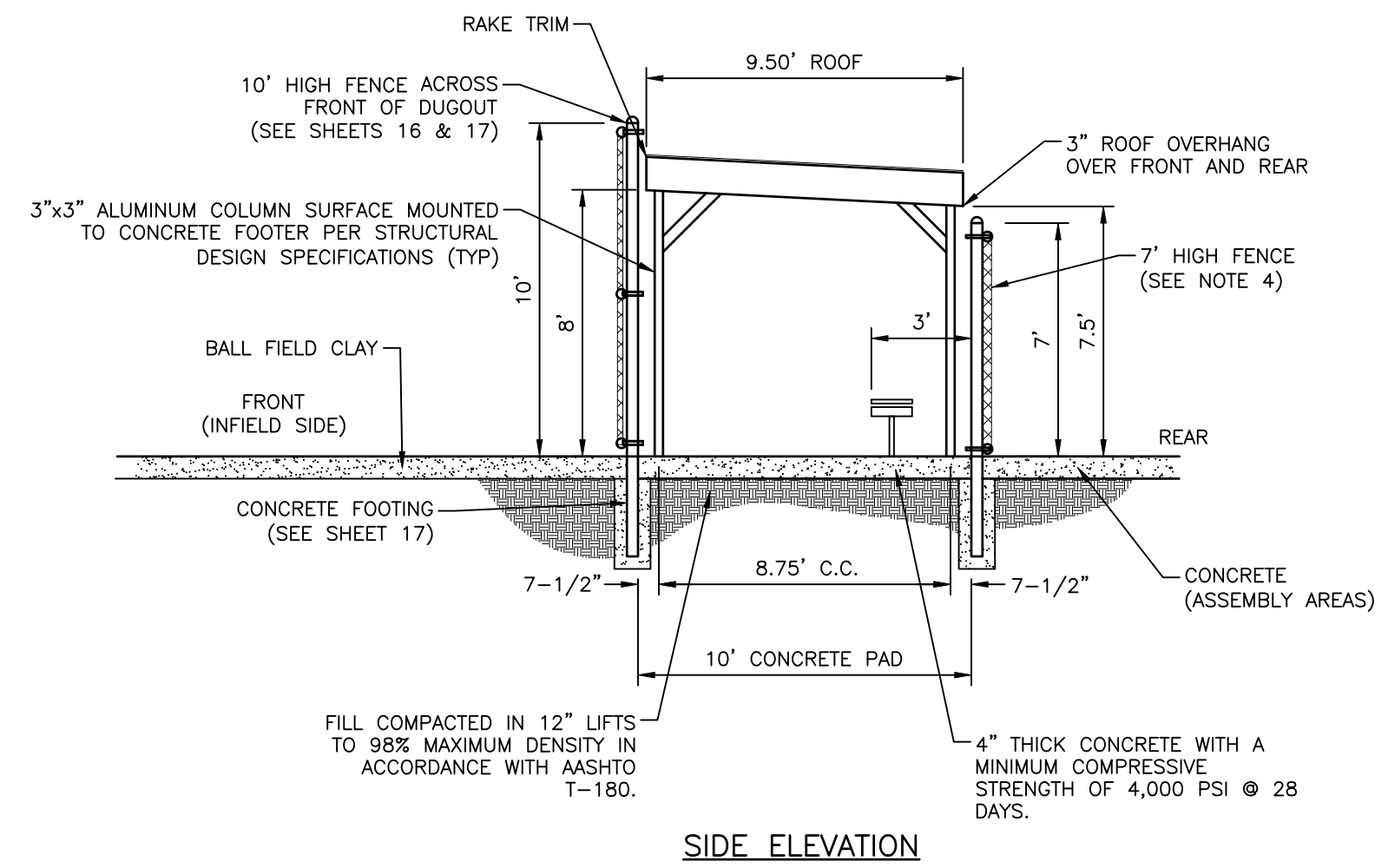
20 LF 6' HIGH WINDSCREEN MOUNTED ALONG EXTERIOR OF BACKSTOP FENCING. BOTTOM OF WINDSCREEN TO MATCH BOTTOM RAIL ELEVATION.

16'X30' CONCRETE PAD FOR COVERED BLEACHERS

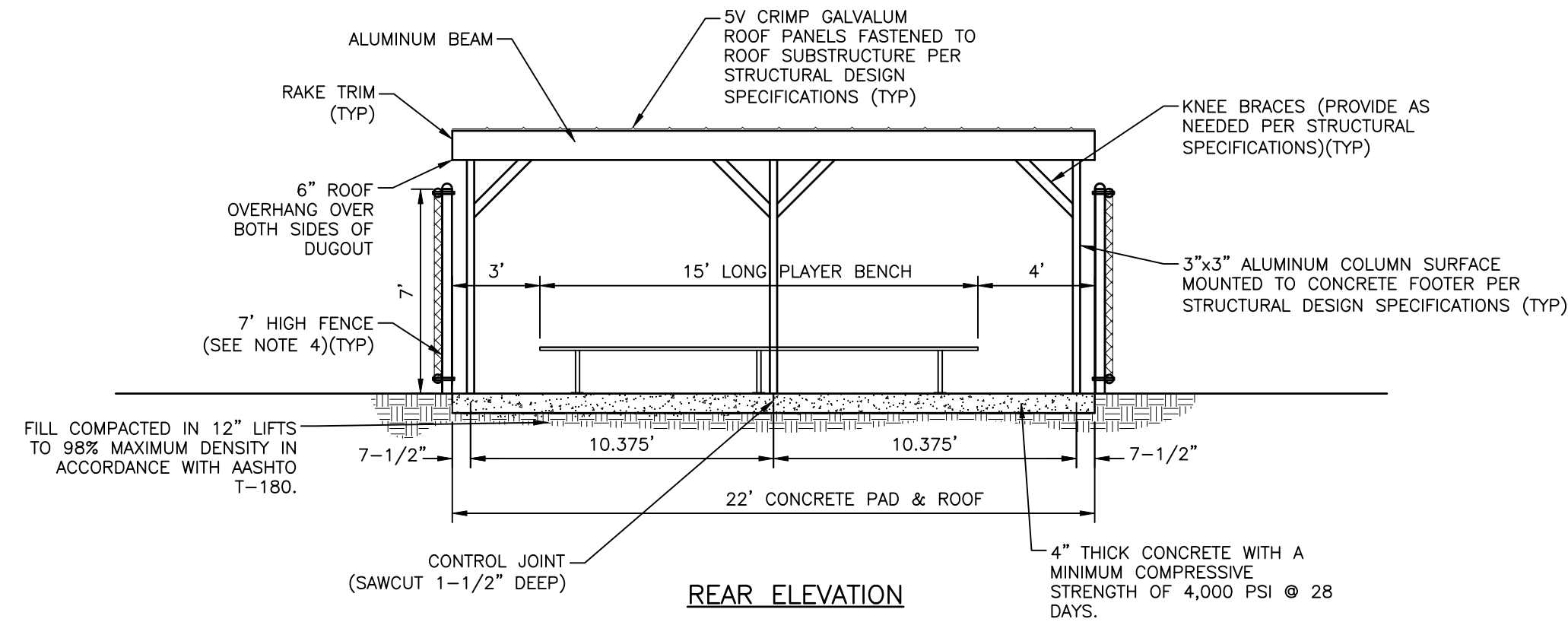
REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	W/M APPROVED BY:

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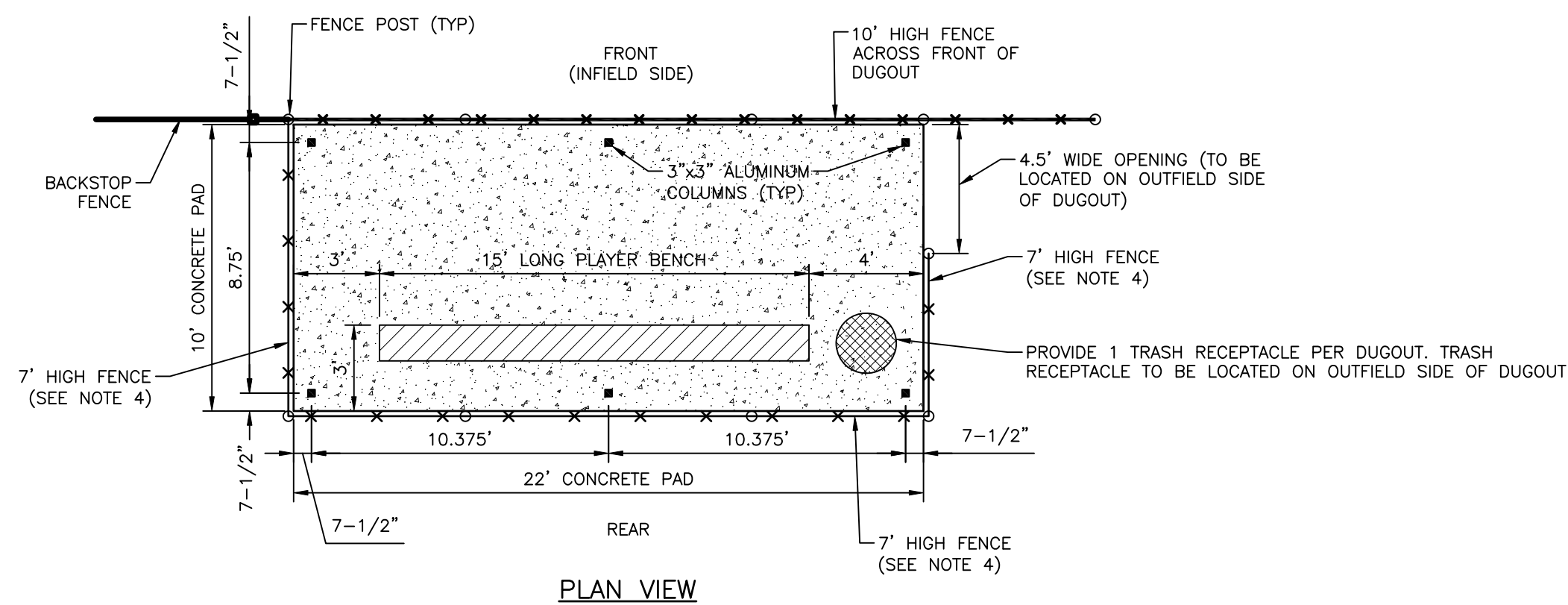
CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS	DATE:	DECEMBER 2012	TITLE:	TYPICAL BALL FIELD PLAN
PROJECT:	BLACKSTONE PARK EXPANSION	HORIZONTAL SCALE:	AS SHOWN	CROSS REFERENCE FILE NO.:	PROJECT NUMBER:
		VERTICAL SCALE:	AS SHOWN		215611237
		SEC. TYP. SIZE:	11 3/4S 17E		



SIDE ELEVATION



REAR ELEVATION



PLAN VIEW

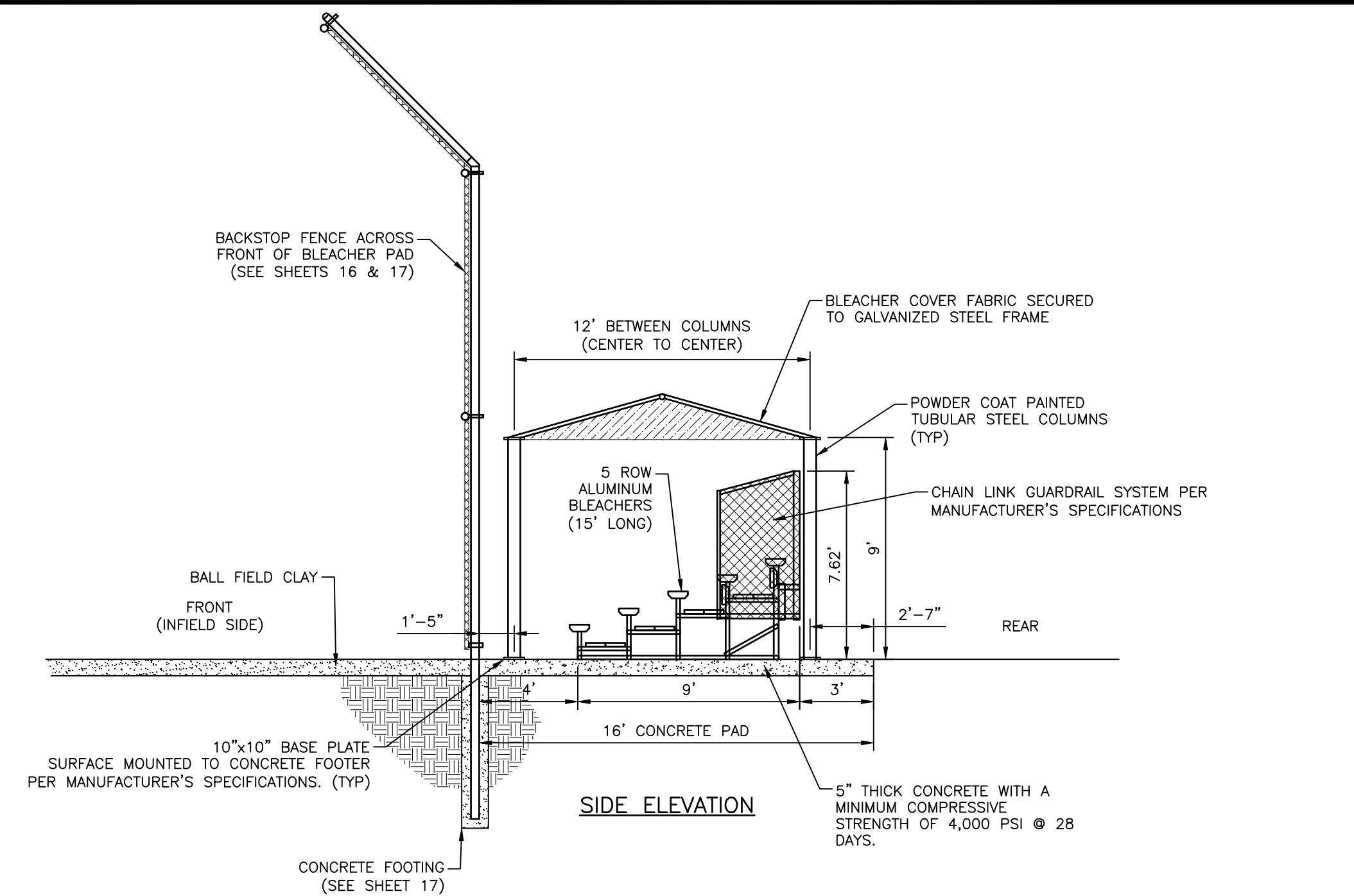
NOTES:

- DUGOUT CANOPY DETAILS ARE PROVIDED FOR INFORMATIONAL PURPOSES ONLY FOR BASIS OF BID. DUGOUT CANOPIES TO CONSIST OF LIGHT ALUMINUM MATERIALS SIMILAR TO A CARPORT/CANOPY STRUCTURE AS MANUFACTURED BY ELLENTON ROOF AND ALUMINUM, INC. (OR APPROVED ALTERNATE). ALL MATERIALS SHALL BE IN WHITE COLOR. CONTRACTOR IS RESPONSIBLE TO PROVIDE SIGNED AND SEALED STRUCTURAL DRAWINGS/DESIGN CALCULATIONS FOR THE CANOPY STRUCTURES AND SHALL INCLUDE PERMITTING THROUGH THE CITY OF PALMETTO (IF REQUIRED). CONTRACTOR TO CONFIRM FOOTING REQUIREMENTS FOR THE DUGOUT CANOPY COLUMNS PRIOR TO POURING THE CONCRETE PAD.
- ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED.
- REFER TO SHEET 5 FOR DUGOUT PAD LOCATIONS (6 TOTAL).
- CONTRACTOR TO INSTALL 6' HIGH WINDSCREEN MOUNTED ALONG THE EXTERIOR OF THE 7' HIGH DUGOUT FENCING (37' LF TOTAL PER DUGOUT). BOTTOM OF WINDSCREEN SHALL BE 6" ABOVE FINISH GRADE.

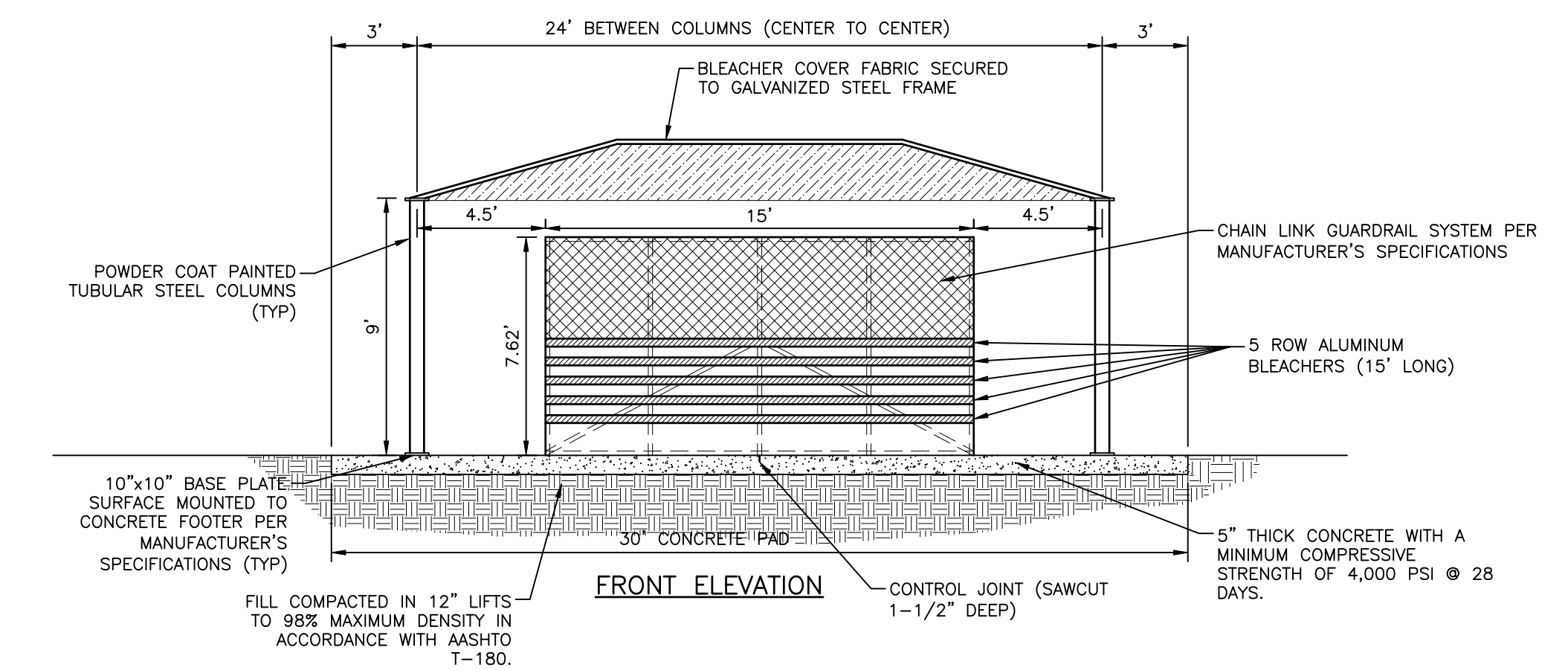
SPECIFICATIONS:

- WINDSCREENS: BSN SPORTS POLYESTER OUTFIELD WINDSCREEN (1170610) - ROYAL BLUE IN COLOR (OR APPROVED ALTERNATE). WINDSCREEN SHALL BE MOUNTED TO FENCING USING 7" SELF-LOCK TIE WRAPS (MITWRAPS) EVERY 12" TO 18" PER MANUFACTURER'S RECOMMENDATIONS.
- ALL TRASH RECEPTACLES TO BE 32 GALLON RECEPTACLE-PORTABLE BY WABASH VALLEY MANUFACTURING, INC. (LR3000) OR APPROVED ALTERNATE. TRASH RECEPTACLES SHALL HAVE A ROUND DOME TOP LID (D1100) AND A 32 GALLON LINER (LR310). ALL MATERIALS SHALL BE BLACK IN COLOR. CONTRACTOR TO SECURE TRASH RECEPTACLES DIRECTLY TO CONCRETE PER MANUFACTURER'S RECOMMENDATIONS. ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED.
- PLAYER BENCH: 15' PLAYER BENCH WITHOUT BACK - SURFACE MOUNT BY WABASH VALLEY MANUFACTURING, INC. (SG443D) OR APPROVED EQUAL. BENCH SHALL HAVE SMALL MOUNTING PLATE COVERS (SC203). ALL MATERIALS SHALL BE BLACK IN COLOR. CONTRACTOR TO SECURE SURFACE MOUNT BENCH TO CONCRETE PER MANUFACTURER'S RECOMMENDATIONS. ALL HARDWARE TO BE STAINLESS STEEL OR GALVANIZED.

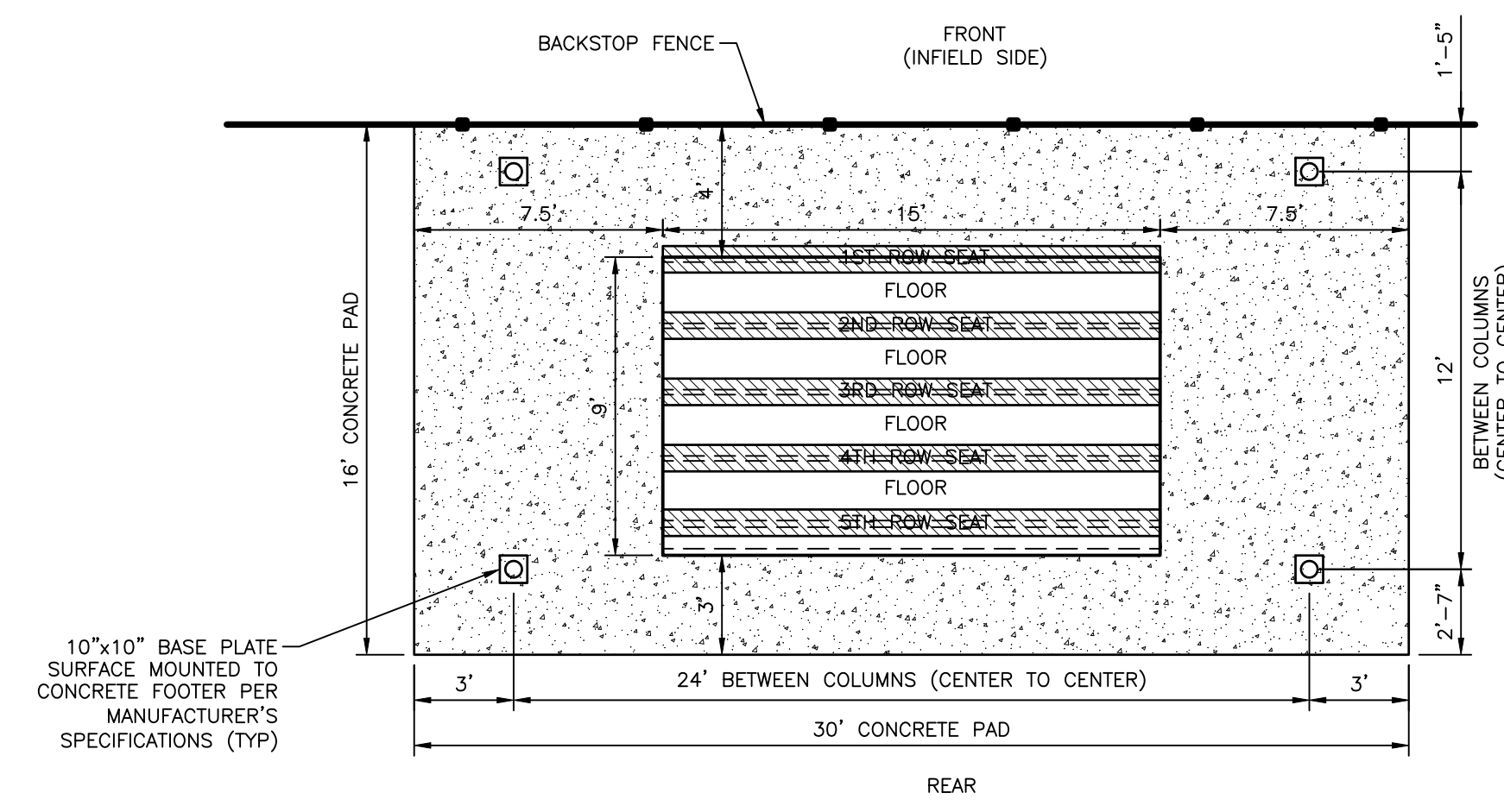
DUGOUT DETAIL  
N.T.S.



SIDE ELEVATION



FRONT ELEVATION



PLAN VIEW

NOTES:

- INSTALL ALL ITEMS PER MANUFACTURER'S SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE TO PROVIDE SIGNED AND SEALED ENGINEERING DRAWINGS/DESIGN CALCULATIONS FOR THE BLEACHER COVERS AND SHALL INCLUDE PERMITTING THROUGH THE CITY OF PALMETTO (IF REQUIRED). CONTRACTOR TO CONFIRM FOOTING REQUIREMENTS FOR THE BLEACHER COVER COLUMNS PRIOR TO POURING THE CONCRETE PAD.
- ALL HARDWARE SHALL BE STAINLESS STEEL OR GALVANIZED.
- REFER TO SHEET 5 FOR BLEACHER PAD LOCATIONS (6 TOTAL).

SPECIFICATIONS:

- BLEACHERS (50 SEAT CAPACITY): BSN SPORTS 5 ROW 15' PREFERRED BLEACHER (NB0515P) OR APPROVED ALTERNATE. BLEACHER TO HAVE DOUBLE FOOT PLANKS AND A RISER BOARD ON ALL ROWS. A CHAIN LINK GUARDRAIL SYSTEM, AND SAFETY END CAPS ON ALL ROWS.
- BLEACHER COVER: 12' WIDE BY 24' LONG BLEACHER COVER BY APOLLO SUNGUARD SYSTEMS, INC. OR APPROVED ALTERNATE. FABRIC COLOR SHALL BE ROYAL BLUE WITH GALVANIZED FRAME. COLUMNS SHALL BE BLACK POWDER COAT PAINTED TUBULAR STEEL. COLUMNS SHALL BE SURFACE MOUNTED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS (SEE NOTE 1).

BLEACHER DETAIL  
N.T.S.

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	DATE	ACTIVITY	INITIALS/EMP. NO.	DATE
						DESIGNED BY:		
						DRAWN BY:	CLL/096591	12/2012
						CHECKED BY:		
						CONTRACT ADMIN. BY:		
						W/M APPROVED BY:		




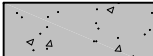
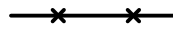

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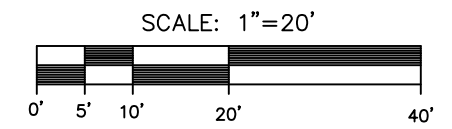
CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT:	BLACKSTONE PARK EXPANSION

DATE:	DECEMBER 2012	TITLE:	DUGOUT AND BLEACHER DETAILS
HORIZONTAL SCALE:	AS SHOWN	CROSS REFERENCE FILE NO.:	PROJECT NUMBER:
VERTICAL SCALE:	AS SHOWN		215611237
SEC. TYP. SIZE:	11 3/4S 17E	SHEET NUMBER:	15 OF 19

DANIEL J. BOND, P.E.  
FLORIDA LICENSE NO. 57969  
D-215611237-015

**LEGEND:**

-  INFIELD CLAY
-  CONCRETE PAD FOR DUGOUT AND BLEACHERS
-  BLACK VINYL CHAIN LINK FENCE
-  BLACK VINYL BACKSTOP FENCE

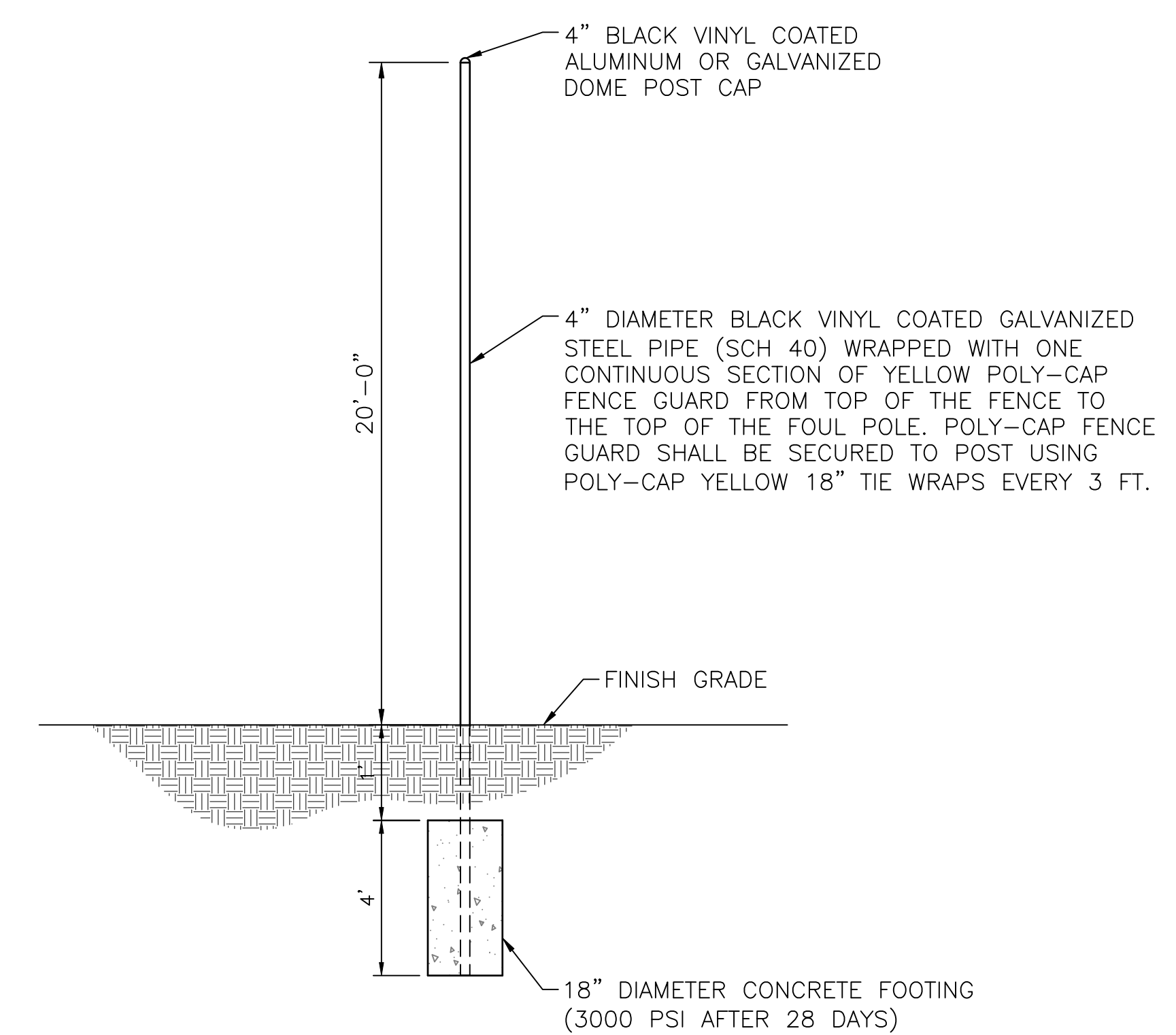
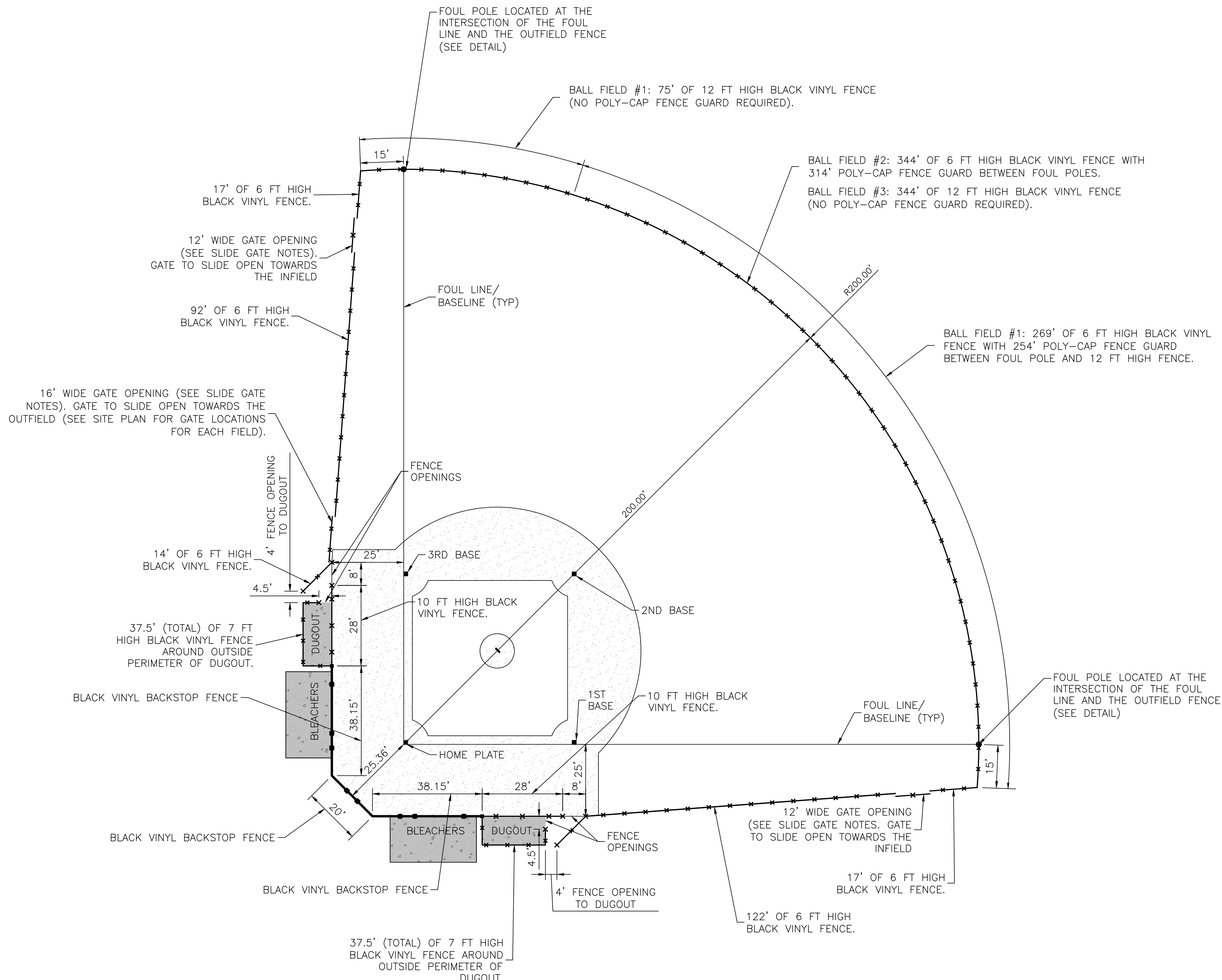


**FENCING NOTES:**

- SEE SHEET 17 FOR ALL FENCING DETAILS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL FENCING COMPONENTS TO THE ENGINEER AND COUNTY FOR REVIEW. SHOP DRAWINGS TO INCLUDE SIZE AND DIMENSIONS OF ALL FENCING.
- POLY-CAP FENCE GUARD: BSN SPORTS POLY-CAP FENCE GUARD - YELLOW, BBPC250X (OR APPROVED ALTERNATE). POLY-CAP FENCE GUARD SHALL BE SECURED TO FENCE USING POLY-CAP YELLOW 18" TIE WRAPS (BBPTIES) EVERY 3' PER MANUFACTURER'S RECOMMENDATIONS.

**SLIDE GATE NOTES:**

- GATES FOR ALL GATE OPENINGS SHALL BE CANTILEVER SLIDE GATES PER FDOT INDEX #803. BARB WIRE SHALL NOT BE INSTALLED AS PART OF THE GATE. HEIGHT OF THE GATE TO BE COMPATIBLE WITH 6' HIGH FENCE.
- GATE COMPONENTS SHALL BE GALVANIZED AND BLACK VINYL COATED INCLUDING ALL FABRIC, POSTS, AND OTHER APPURTENANCES.
- UNLESS OTHERWISE SPECIFIED, THE TOP OF ALL CONCRETE FOOTINGS SHALL BE SET A MINIMUM OF 4" BELOW GRADE AND SHALL NOT BE EXPOSED TO THE SURFACE.
- SLIDE GATES SHALL BE SECURED TO FENCE END POSTS UTILIZING AN OFFSET LOK'N LATCH.
- ROLLERS AND BACK FRAMES FOR THE SLIDE GATES SHALL BE LOCATED ON THE EXTERIOR OF THE BALL FIELDS.
- ALL FABRIC SHALL BE KNUCKLED TOP AND BOTTOM SELVAGES.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL GATE COMPONENTS TO THE ENGINEER AND COUNTY FOR REVIEW. SHOP DRAWINGS TO INCLUDE SIZE AND DIMENSIONS OF ALL GATES.



**NOTES:**

- FOUL POLE SHALL BE INCLUDED AS ONE OF THE OUTFIELD FENCE POSTS. CONTRACTOR TO ADJUST FENCE POST SPACING ACCORDINGLY.

**FOUL POLE DETAIL**  
N.T.S.

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	W/M APPROVED BY:

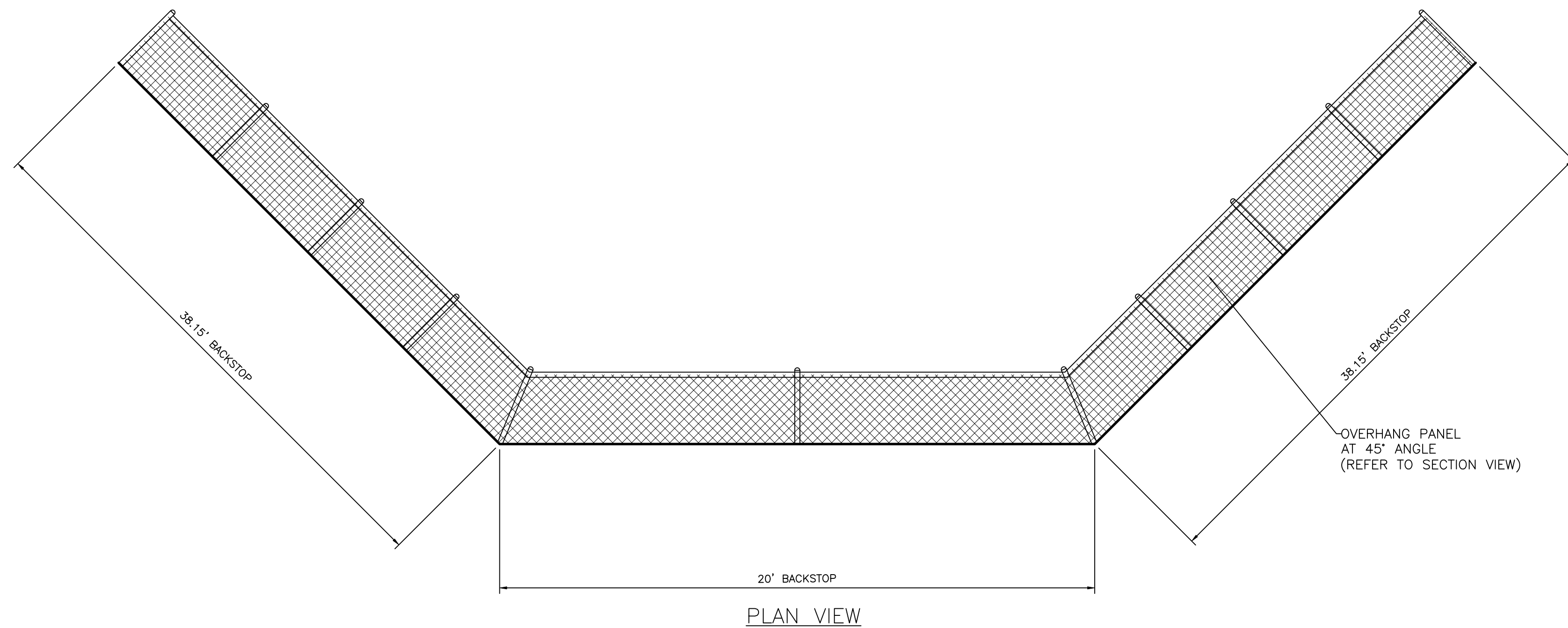
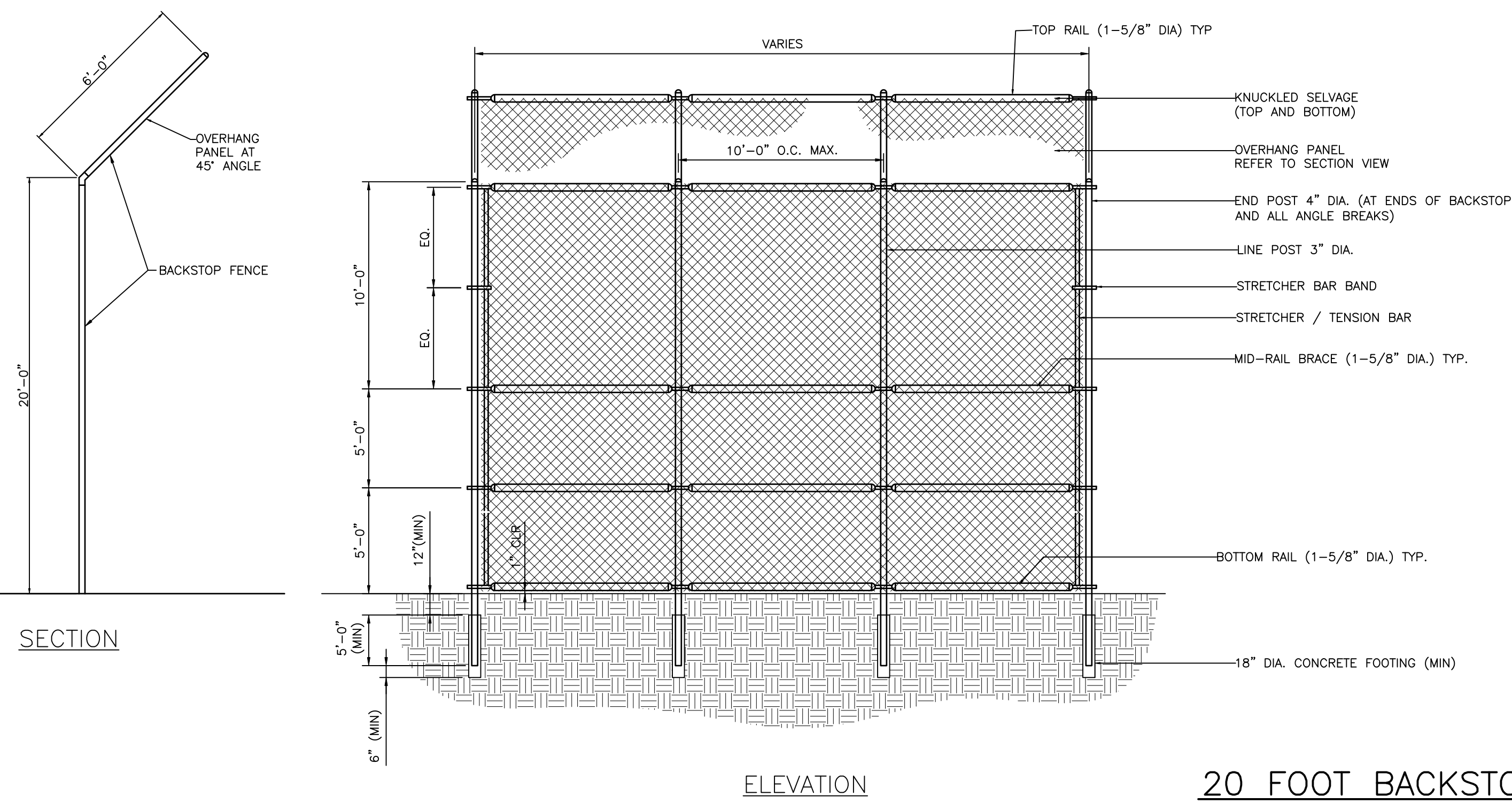
**WilsonMiller Stantec**  
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CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT:	BLACKSTONE PARK EXPANSION

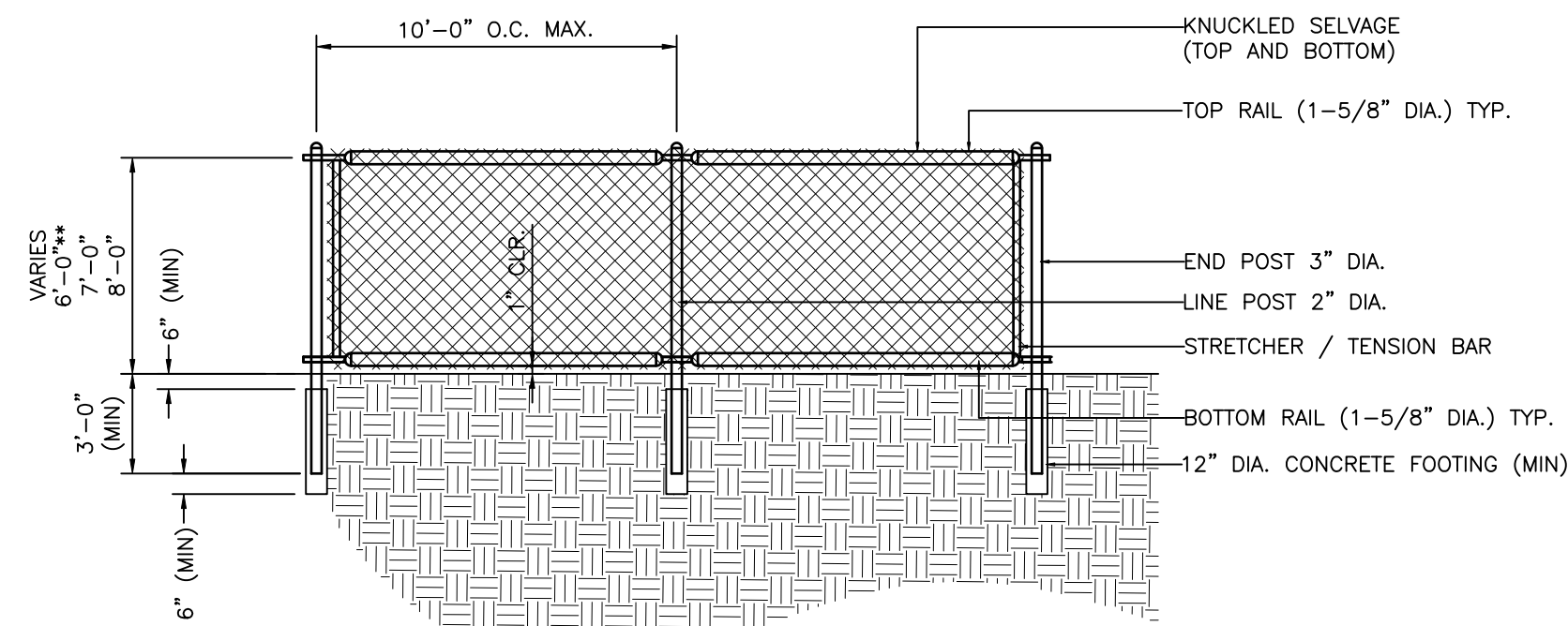
DATE:	DECEMBER 2012	TITLE:	BALL FIELD FENCING PLAN
HORIZONTAL SCALE:	AS SHOWN	CROSS REFERENCE FILE NO.:	PROJECT NUMBER:
VERTICAL SCALE:	AS SHOWN		215611237
SHEET NUMBER:	11 34S 17E		16 OF 19

DANIEL J. BOND, P.E.  
 FLORIDA LICENSE NO. 57969  
 D-215611237-016



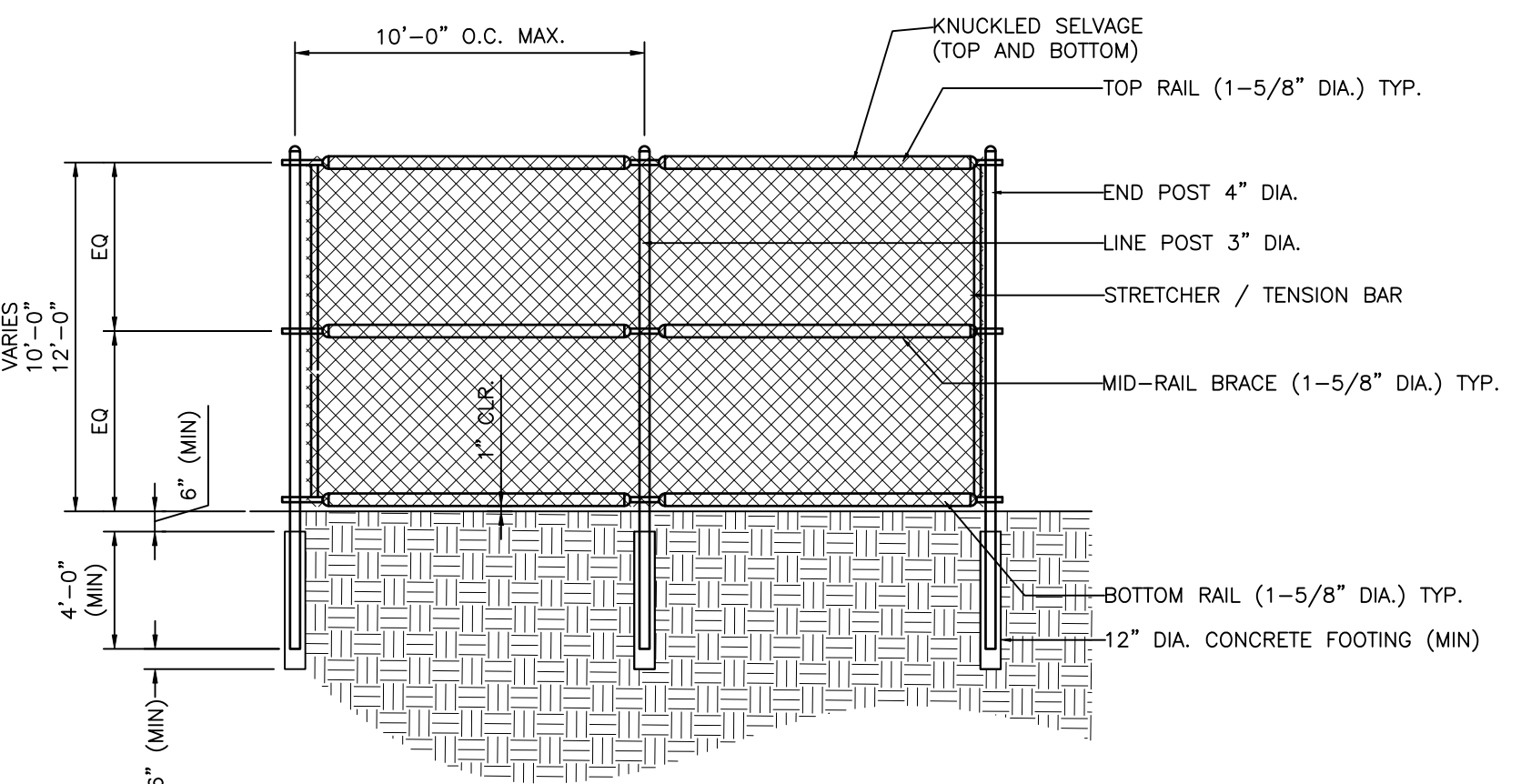


**20 FOOT BACKSTOP W/6 FOOT OVERHANG FENCE DETAIL**  
N.T.S.



**6 FOOT, 7 FOOT, AND 8 FOOT FENCE DETAIL**  
N.T.S.

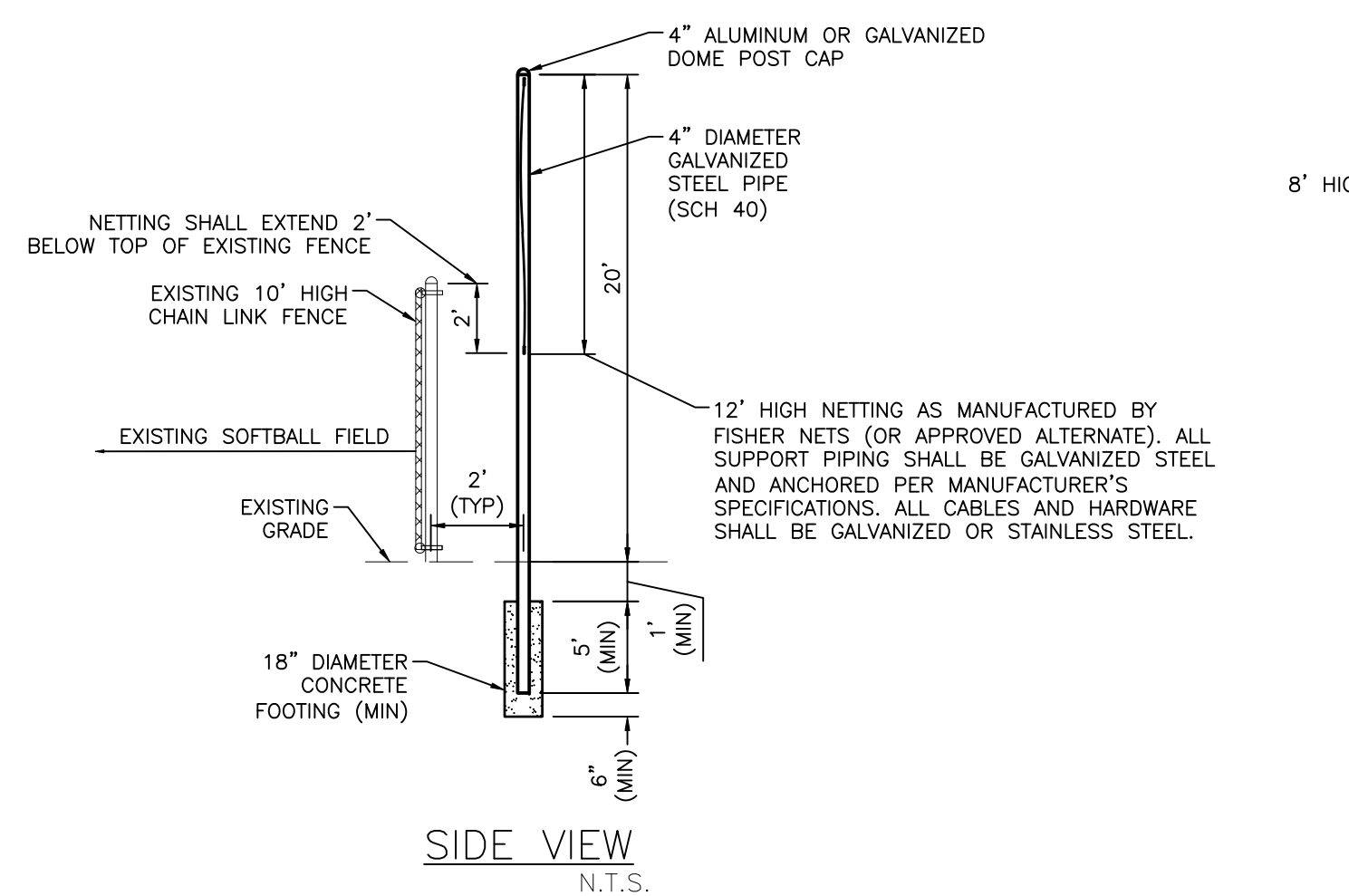
\*\* UV RESISTANT BLACK VINYL SLATS SHALL BE PROVIDED FOR FENCE ENCLOSURE AROUND THE SITE ELECTRICAL CONTROL PANELS (TOP TO BOTTOM). SEE SHEET 5.



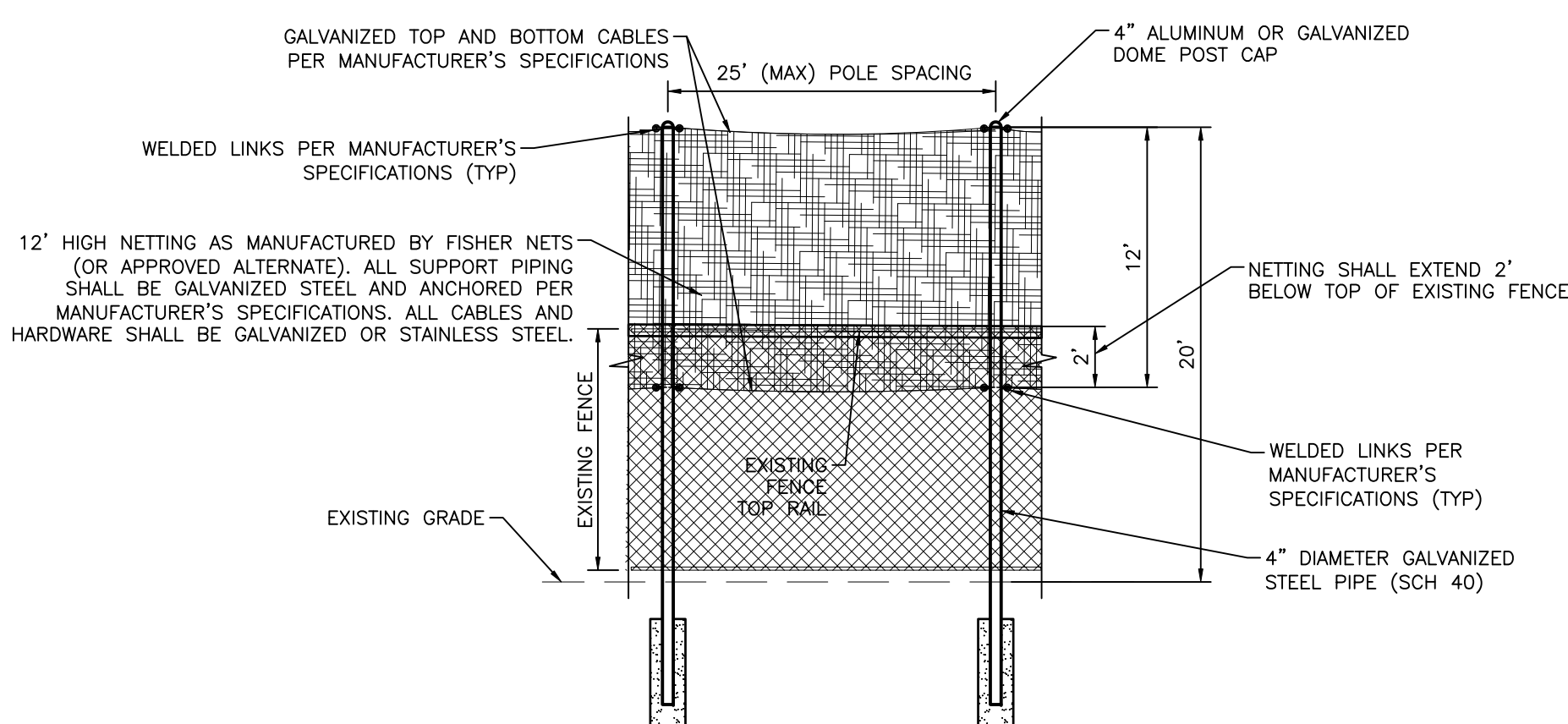
**10 FOOT AND 12 FOOT FENCE DETAIL**  
N.T.S.

**GENERAL FENCING NOTES:**

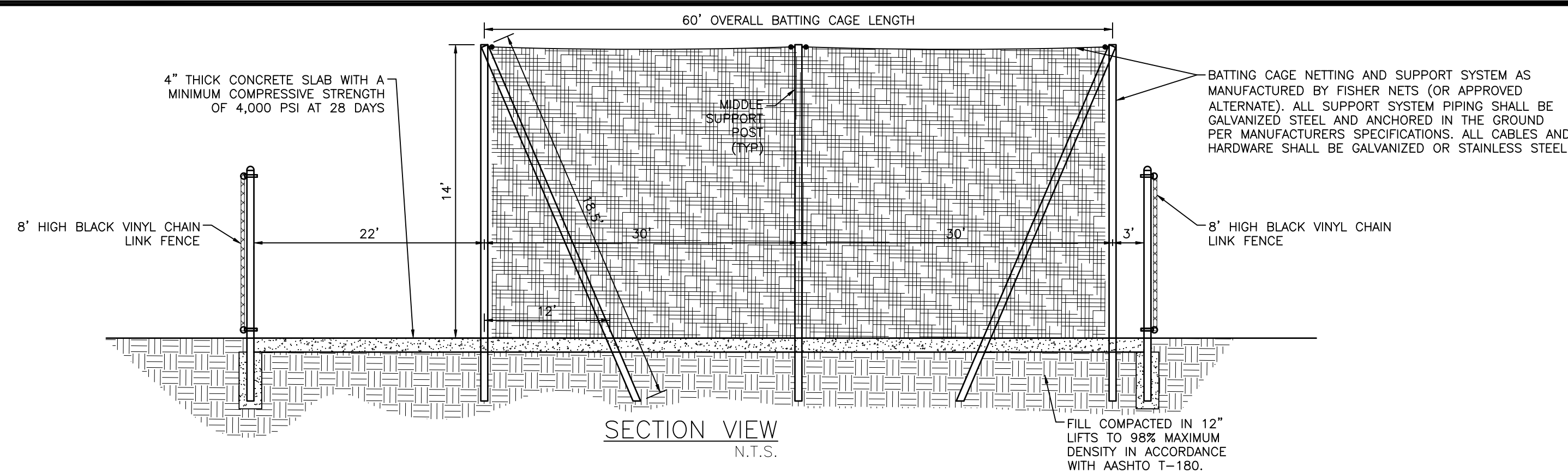
1. ALL FENCE POSTS AND RAILS SHALL BE LOCATED ON THE EXTERIOR SIDE OF THE FABRIC IN RELATION TO THE BALL FIELDS.
2. ALL FENCE FABRIC SHALL BE #9 GAUGE WIRE IN TWO INCH DIAMOND MESH PATTERN WITH KNUCKLED SELVAGES (TOP AND BOTTOM).
3. ALL FENCE AND GATE MATERIALS SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. FABRIC, POSTS, AND ALL OTHER APPURTENANCES SHALL HAVE A MINIMUM ZINC COATING OF 1.2 OUNCES PER SQUARE FOOT OF SURFACE, AND FUSED AND BONDED WITH BLACK VINYL, MEETING THE REQUIREMENTS OF ASTM F668-11, CLASS 1. FABRIC TO BE SECURED TO LINE POST WITH #6 GAUGE ALUMINUM TIE WIRES.
4. CONCRETE FOR ALL FENCE POST FOOTINGS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL FENCE/GATE MATERIALS TO ENGINEER AND COUNTY FOR REVIEW.
6. REFER TO SHEET 16 FOR FENCING LAYOUT AND DIMENSIONS.



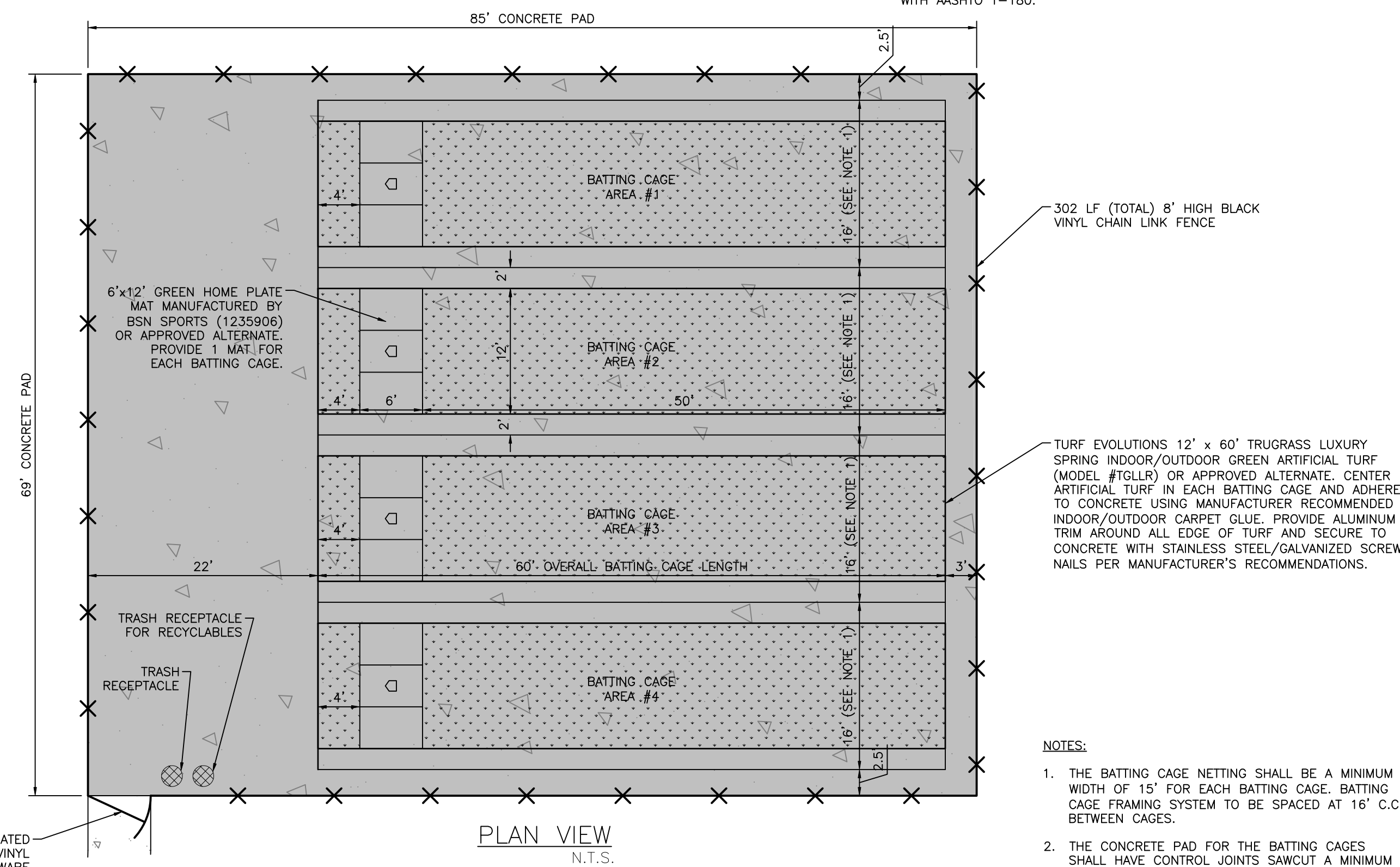
**SIDE VIEW**  
N.T.S.



**FRONT VIEW**  
N.T.S.  
**SAFETY NETTING DETAIL**  
N.T.S.



**SECTION VIEW**  
N.T.S.



**BATTING CAGE DETAILS**  
N.T.S.

- NOTES:**
1. THE BATTING CAGE NETTING SHALL BE A MINIMUM WIDTH OF 15' FOR EACH BATTING CAGE. BATTING CAGE FRAMING SYSTEM TO BE SPACED AT 16' C.C. BETWEEN CAGES.
  2. THE CONCRETE PAD FOR THE BATTING CAGES SHALL HAVE CONTROL JOINTS SAWCUT A MINIMUM OF 1-1/2\"/>



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CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS  
PROJECT: BLACKSTONE PARK EXPANSION

DATE: DECEMBER 2012  
HORIZONTAL SCALE: 1" = 30'  
VERTICAL SCALE: NA  
SHEET: 11 OF 17

TITLE: BALL FIELD FENCING, NETTING, AND BATTING CAGE DETAILS

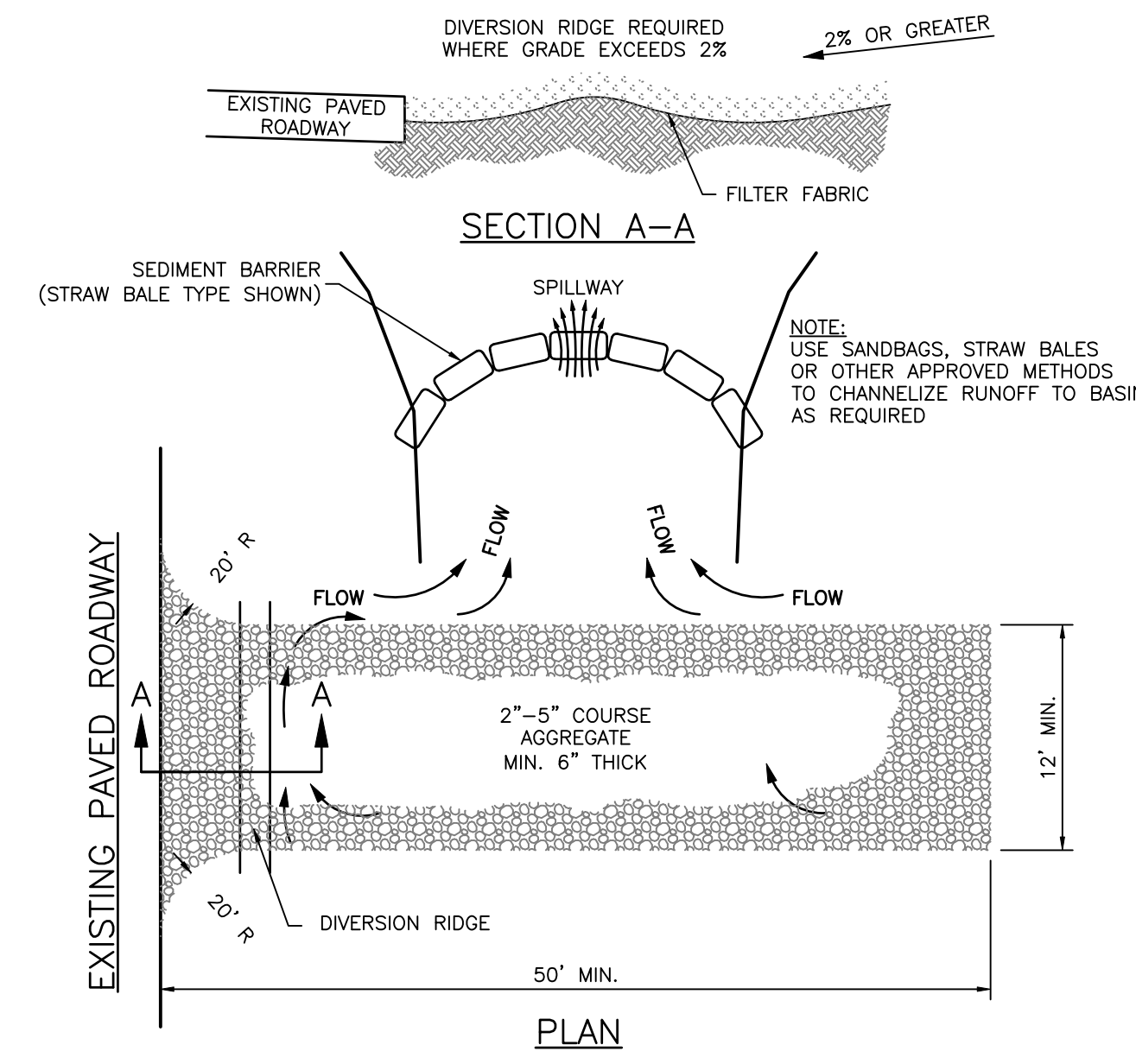
CROSS REFERENCE FILE NO.: 215611237

DANIEL J. BOND, P.E.  
FLORIDA LICENSE NO. 57969  
INDEX NUMBER:  
D-215611237-017  
SHEET NUMBER: 17 OF 19

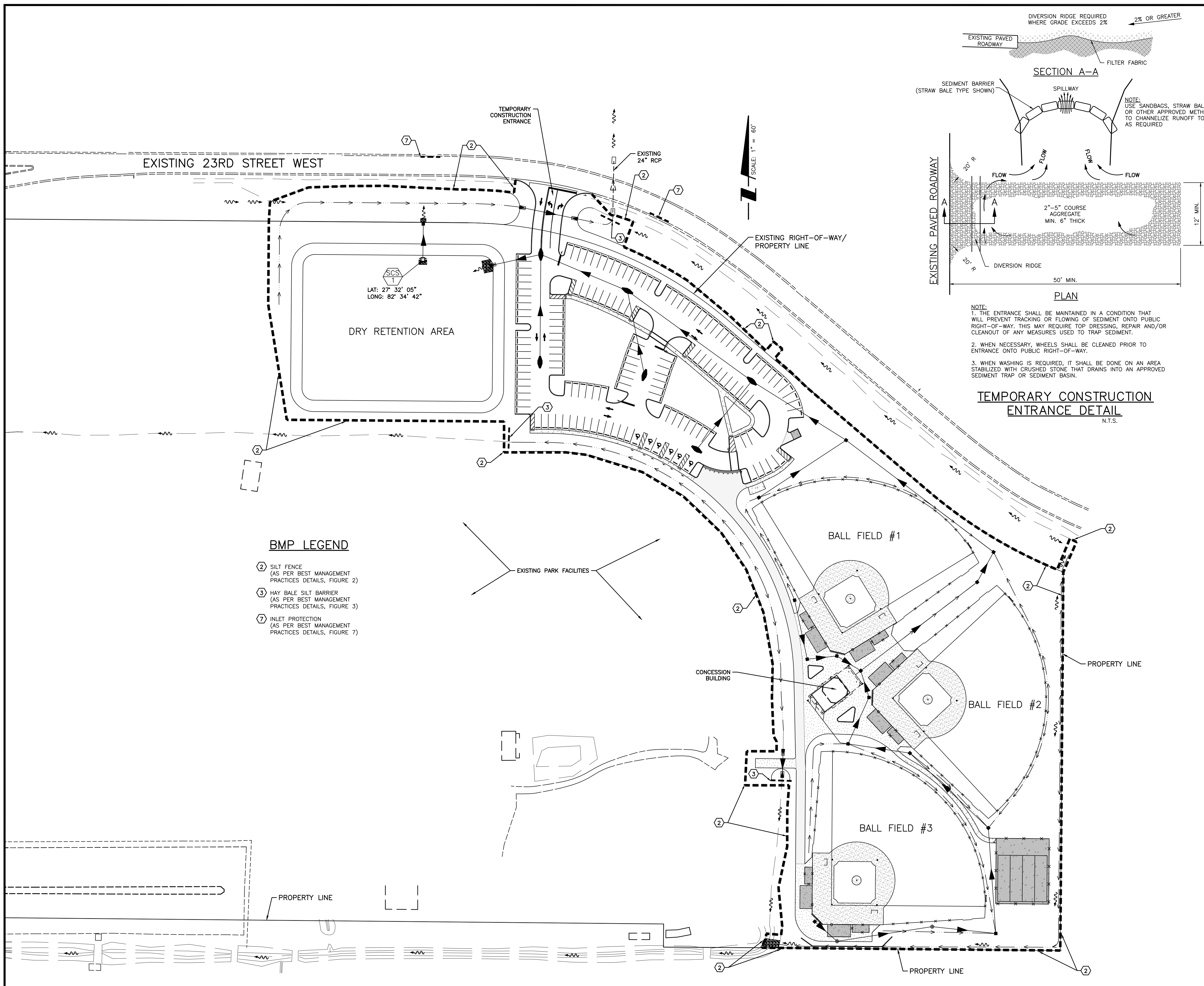
REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	W/M APPROVED BY:

**BEST MANAGEMENT NOTES**

1. A COPY OF THIS BEST MANAGEMENT PRACTICES PLAN AND THE STORMWATER POLLUTION PREVENTION PLAN, SHALL BE KEPT AT THE PROJECT SITE AT ALL TIMES.
2. THE CONTRACTOR SHALL ABIDE BY ALL APPLICABLE REQUIREMENTS AND CONDITIONS OF THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFMD) PERMIT(S) AND HAVE A COPY OF THE PERMIT(S) ON SITE. IF IT IS NECESSARY FOR GROUNDWATER DEWATERING TO DISCHARGE OFFSITE, THEN THE CONTRACTOR SHALL OBTAIN ALL APPLICABLE PERMITTING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR SHALL BEAR ALL RESPONSIBILITY AND COSTS FOR OBTAINING AND/OR MODIFYING ALL APPLICABLE PERMITTING FOR THE DISCHARGE OF GROUNDWATER DEWATERING AND FOR COMPLYING WITH ALL SWFMD AND FDEP PERMITTING CONDITIONS.
3. THE CONTRACTOR SHALL IMPLEMENT OTHER BEST MANAGEMENT PRACTICES AS DIRECTED BY THE ENGINEER OF RECORD OR OTHER REGULATORY AGENCIES.
4. THE CONTRACTOR SHALL STAGE CONSTRUCTION IN PHASES WHENEVER POSSIBLE TO MINIMIZE SOIL LOSS AND CONTROL EROSION.
5. THE CONTRACTOR SHALL PROVIDE A STABILIZED CONSTRUCTION ENTRANCE TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP AS REQUIRED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE SHALL BE COVERED WITH A TARPULIN.
6. THE CONTRACTOR SHALL DIRECT ONSITE RUNOFF TO THE STORMWATER MANAGEMENT SYSTEM DURING CONSTRUCTION.
7. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO AFFECTED CONSTRUCTION AREAS TO CONTROL BOTH SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
8. ALL INLET GRATES SHALL BE WRAPPED IN FILTER FABRIC AND ALL INLETS SHALL BE PROTECTED WITH SILT SCREENS OR HAY BALES IN ACCORDANCE WITH THE BMP PLAN. SILT BARRIERS SHALL REMAIN IN PLACE UNTIL SODDING AROUND INLETS IS COMPLETE. INLET GRATES SHOULD REMAIN WRAPPED UNTIL PROJECT IS COMPLETE.
9. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINABLE UNTIL FINAL STABILIZATION OF THE SITE. THE 3,600 CUBIC FEET OF STORAGE AREA PER ACRE DRAINED DOES NOT APPLY TO FLOWS FROM OFFSITE AREAS AND FLOWS FROM ONSITE AREAS THAT ARE EITHER UNDISTURBED OR HAVE UNDERGONE FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME AND WHERE A TEMPORARY SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, A COMBINATION OF SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS AND OTHER BMPs SHOULD BE USED. AT A MINIMUM, SILT FENCES, OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SLOPES AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.
10. AREAS THAT ARE DESIGNATED FOR PERMANENT STORMWATER INFILTRATION TREATMENT SYSTEMS (E.G., STORMWATER RETENTION PONDS) SHOULD NOT BE USED FOR TEMPORARY SEDIMENT BASINS UNLESS APPROPRIATE MEASURES ARE TAKEN TO ASSURE REMOVAL OF ACCUMULATED FINE SEDIMENTS, WHICH MAY CAUSE PREMATURE CLOGGING AND LOSS OF INFILTRATION CAPACITY, AND TO AVOID EXCESSIVE COMPACTION OF SOILS BY CONSTRUCTION MACHINERY OR EQUIPMENT.
11. DEWATERING WILL OCCUR, AS REQUIRED, FOR ALL EXCAVATION ACTIVITY INCLUDING, BUT NOT LIMITED TO, STORM SEWERS, SANITARY SEWERS, WATER LINES AND OTHER UTILITIES.
12. ALL CONSTRUCTION DEWATERING SHALL BE CONTAINED ONSITE, AT SPECIFIED LOCATIONS, AND ALLOWED TO INFILTRATE THE SOIL, UNLESS FDEP PERMITTING IS OBTAINED FOR OFFSITE DISCHARGE. ALL DEWATERING GROUNDWATER DISCHARGE SHALL BE ROUTED THROUGH A TEMPORARY SEDIMENT PUMP PRIOR TO DISCHARGE TO WETLANDS, OTHER SURFACE WATER, OR OFFSITE. THE GENERAL PROCESS OF THE DEWATERING SYSTEM IF DEPICTED HEREIN SHALL BE ADHERED TO DURING CONSTRUCTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL APPLICABLE APPROVALS FOR ANY MODIFICATIONS HE PROPOSES.
13. THE DEWATERING SYSTEM SHALL USE A PUMP AND PIPING THAT IS LESS THAN 6 INCHES IN DIAMETER AND OPERATE LESS THAN A TOTAL OF SIX MONTHS. ANY DEVIATION FROM THIS REQUIREMENT SHALL REQUIRE A WATER USE PERMIT. THE COST OF A WATER USE PERMIT AND ASSOCIATED MATERIALS SHALL BE BORNE BY THE CONTRACTOR.
14. LAY SOD AROUND ALL INLETS, MITERED ENDWALLS, HEADWALLS, SWALES, POND SLOPES, AND A THREE FOOT (3') WIDE STRIP ADJACENT TO EDGE OF PAVEMENT OR AS DIRECTED BY THE ENGINEER AS SOON AS PRACTICAL TO PREVENT EROSION. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH SOD OR WITH PERMANENT SEED AND MULCH IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. PERMANENT STABILIZATION SHALL OCCUR AS SOON AS PRACTICAL BUT IN NO CASE MORE THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.
15. SODDING INCLUDES MAINTAINING SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT OR GROWTH IS ESTABLISHED, WHICHEVER COMES LAST, UNTIL THEN, ALL EROSION, SILTATION, AND MAINTENANCE OF GRADES AND GRASS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. TOP SOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY WILL TEMPORARILY CEASE FOR AT LEAST 21 DAYS SHALL BE STABILIZED WITH TEMPORARY SEED AND MULCH AS SOON AS PRACTICABLE BUT IN NO CASE MORE THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED AND MULCH SHALL BE INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
17. ALL SILTATION AND EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED AT A MINIMUM OF ONCE PER WEEK OR AFTER ANY 1/2" OR GREATER RAINFALL EVENT. THE CONTRACTOR SHALL MAINTAIN RECORDS OF ALL MAINTENANCE AND INSPECTIONS, ON SITE, UNTIL CONSTRUCTION IS COMPLETE. COPIES SHALL BE FURNISHED TO THE ENGINEER OR OWNER, UPON REQUEST.
18. THE SITE SUPERINTENDENT, WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, FILING OUT THE INSPECTION AND MAINTENANCE REPORT AND IF NECESSARY, REVISING THE STORMWATER POLLUTION PREVENTION PLAN CONSISTENT WITH MODIFICATIONS MADE DUE TO UNFORESEEN CAUSES, AS DICTATED BY FIELD CONDITIONS.
19. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT FOR INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
20. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR IS INCLUDED IN THE STORMWATER POLLUTION PREVENTION PLAN.
21. SILT FENCE SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO INSURE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO INSURE THAT THE FENCE POSTS ARE INSTALLED FIRMLY IN THE GROUND.
22. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SILTATION CONTROL BARRIER OR CONTROL DEVICES SHALL BE IMMEDIATELY REMOVED AND PLACED IN UPLAND AREAS. ALL SILTATION BARRIERS SHALL THEN BE RESTORED TO THEIR ORIGINAL CONDITIONS.
23. THE SEDIMENT BASIN SHALL BE INSPECTED FOR DEPTH OF SEDIMENT, AND BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB, WHICHEVER COMES FIRST.
24. DIVERSION DIKE, IF REQUIRED, SHALL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
25. TEMPORARY AND PERMANENT SEEDING AND PLANTING SHALL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
26. ALL MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT SHALL BE INITIATED WITHIN 24 HOURS OF REPORT.
27. THE LOCATION OF SILT FENCE AND OTHER BMP FACILITIES SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THESE FACILITIES ARE PLACED IN A LOCATION AND MANNER THAT DOES NOT CONFLICT WITH THE LIMITS OF CONSTRUCTION OR AREAS TO BE PROTECTED AS SET FORTH IN THESE PLANS.



**TEMPORARY CONSTRUCTION ENTRANCE DETAIL**  
 N.T.S.



**BMP LEGEND**

- ② SILT FENCE (AS PER BEST MANAGEMENT PRACTICES DETAILS, FIGURE 2)
- ③ HAY BALE SILT BARRIER (AS PER BEST MANAGEMENT PRACTICES DETAILS, FIGURE 3)
- ⑦ INLET PROTECTION (AS PER BEST MANAGEMENT PRACTICES DETAILS, FIGURE 7)

**CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION**

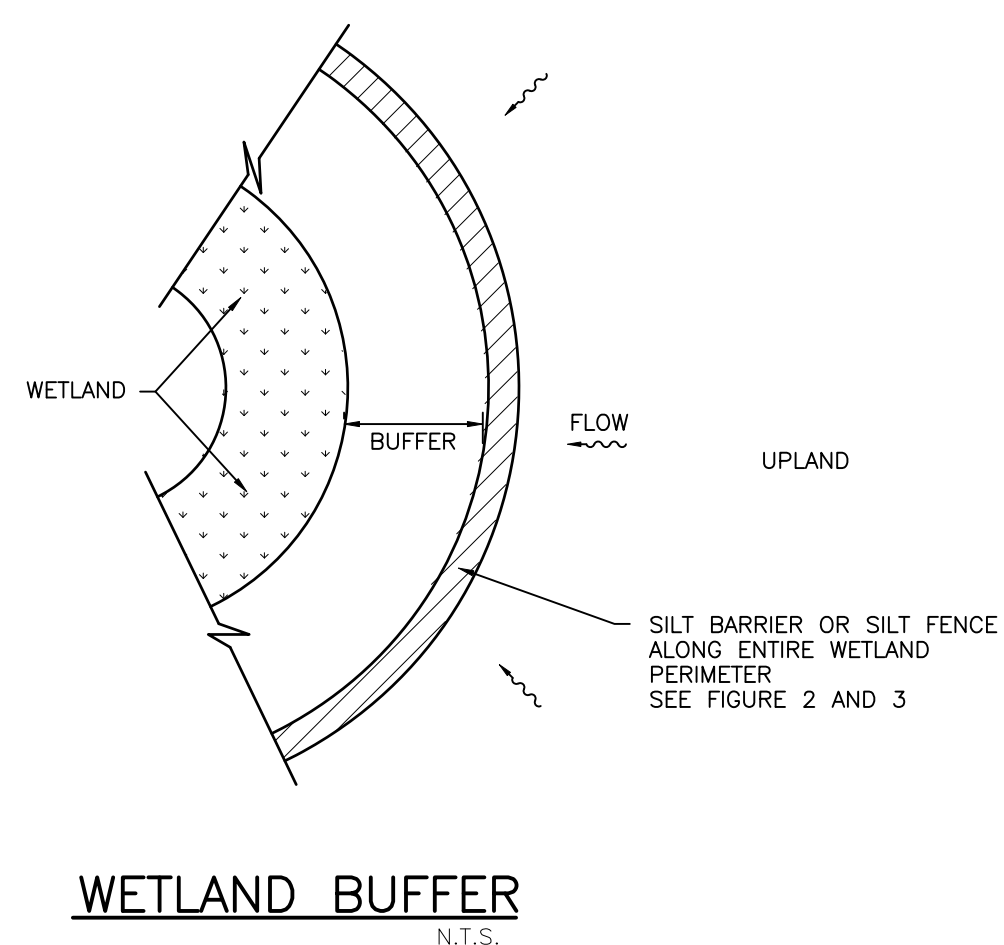
OWNER/APPLICANT SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
 OWNER: CHARLIE BISHOP  
 TITLE: DIRECTOR  
 COMPANY: MANATEE COUNTY PROPERTY MANAGEMENT DEPARTMENT

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	W/M APPROVED BY:

**WilsonMiller Stantec**  
 6900 Professional Parkway East, Sarasota, FL 34240  
 Phone: 941.907.6500 • Fax: 941.907.6910  
 Certificate of Authorization #43 • FL Lic. # LC-0000178 • www.stantec.com

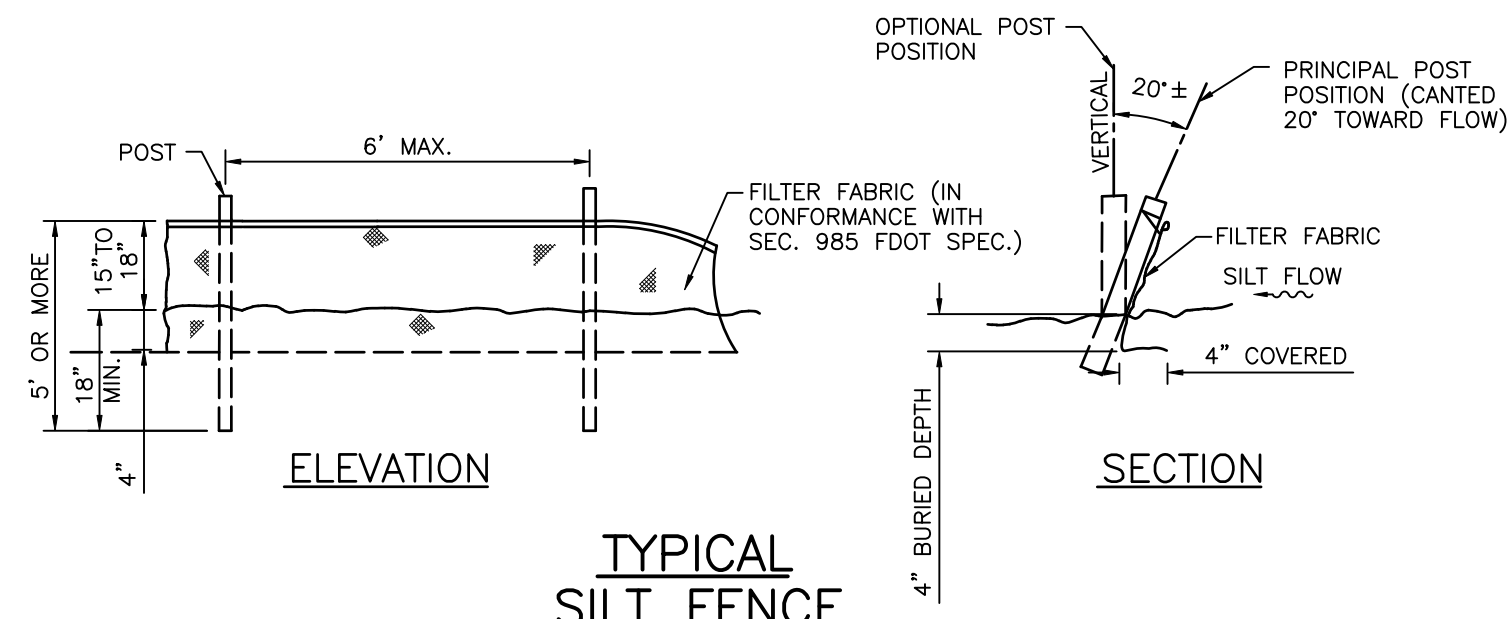
CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS  
 PROJECT: BLACKSTONE PARK EXPANSION

DATE: DECEMBER 2012	TITLE: BEST MANAGEMENT PRACTICES PLAN
HORIZONTAL SCALE: 1" = 60'	INDEX NUMBER: D-215611237-018
VERTICAL SCALE: NA	SHEET NUMBER: 18 OF 19
CROSS REFERENCE FILE NO.: PROJECT NUMBER: 215611237	



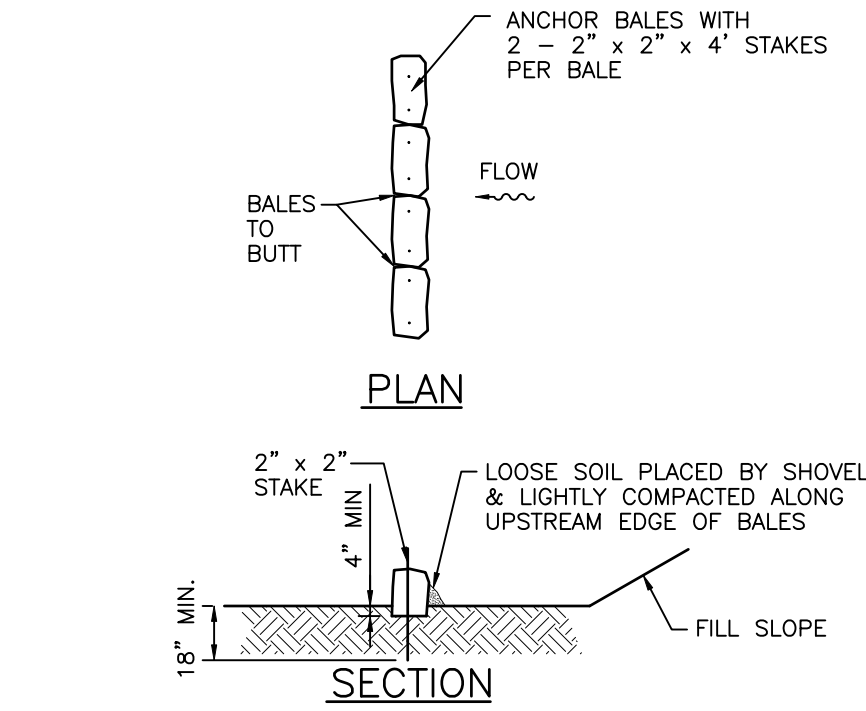
**WETLAND BUFFER**  
N.T.S.

FIGURE 1



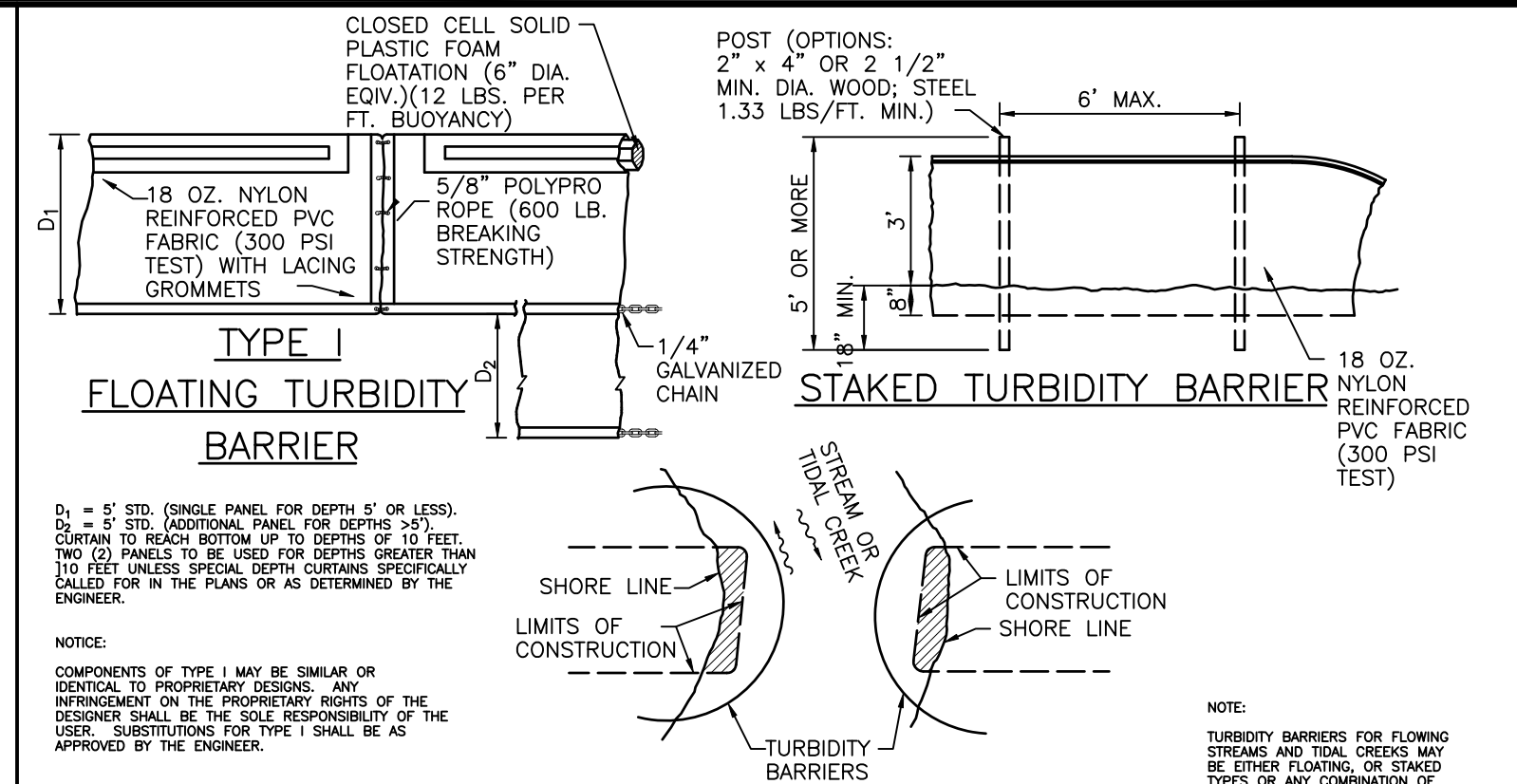
**TYPICAL SILT FENCE**  
N.T.S.

FIGURE 2



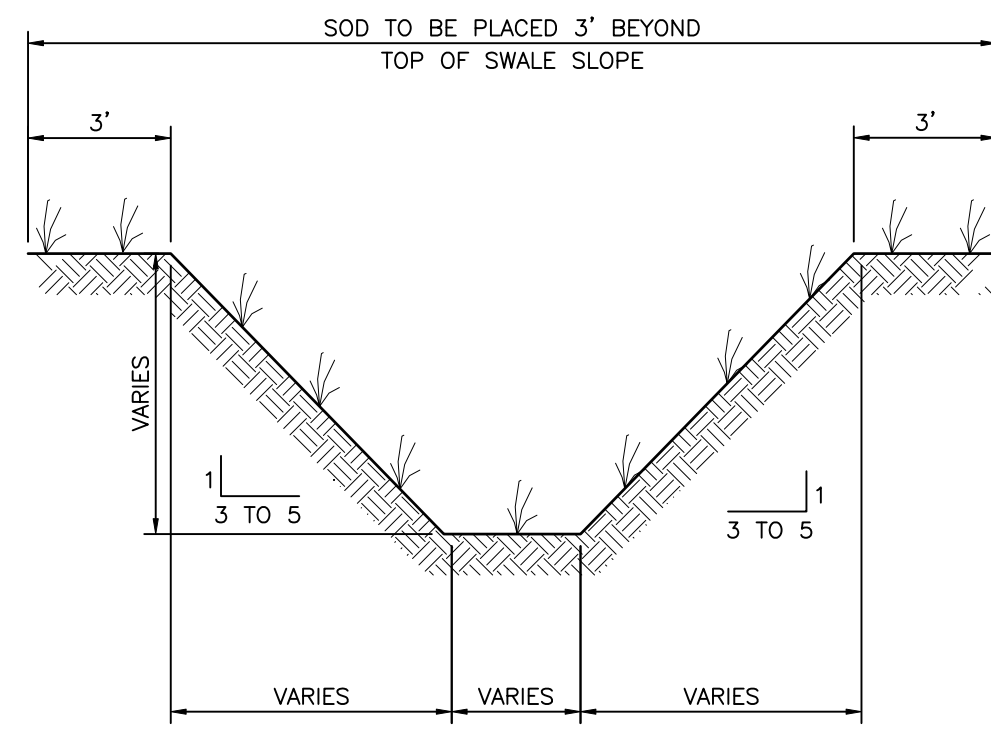
**TYPICAL BALE SILT BARRIER**  
N.T.S.

FIGURE 3



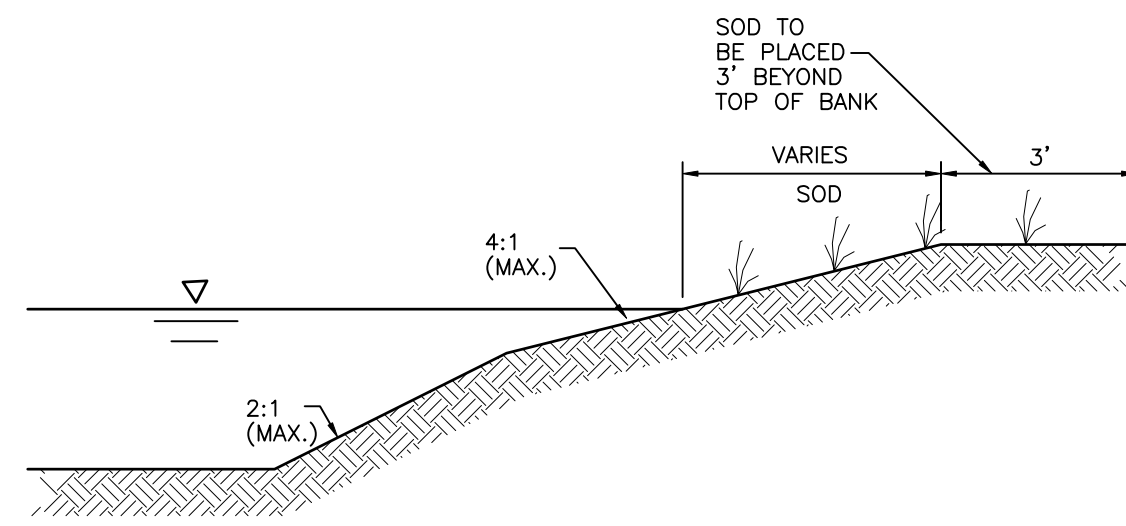
**TURBIDITY BARRIER APPLICATIONS**  
**TURBIDITY BARRIERS**  
N.T.S.

FIGURE 4



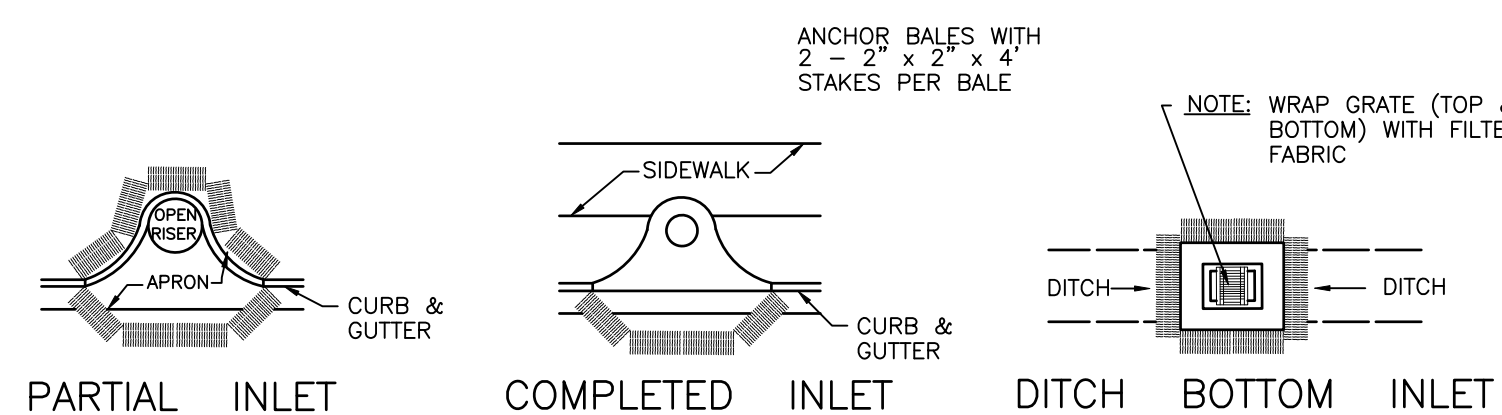
**TYPICAL SWALE SECTION**  
N.T.S.

FIGURE 5



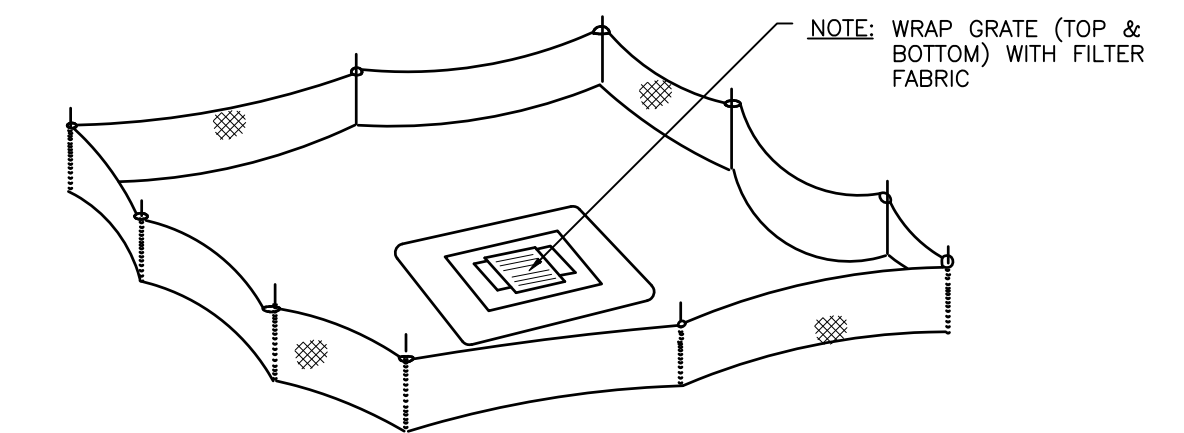
**TYPICAL RETENTION/DETENTION POND SECTION**  
N.T.S.

FIGURE 6



**PROTECTION AROUND INLETS OR SIMILAR STRUCTURES**  
N.T.S.

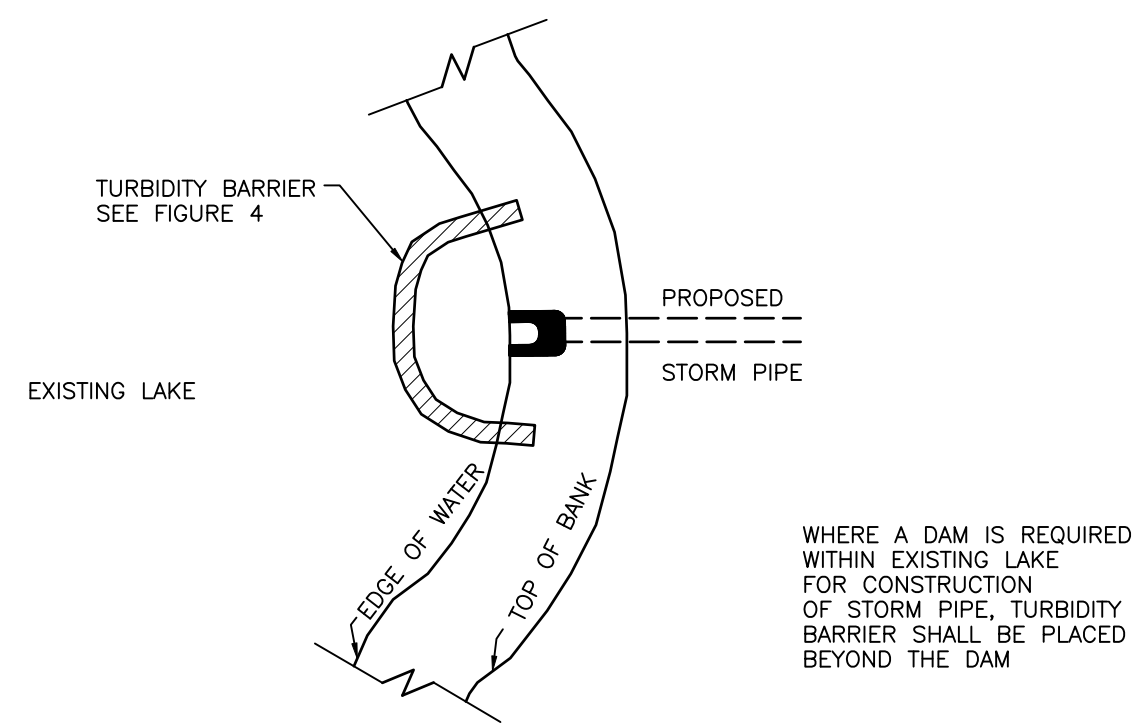
FIGURE 7



**STAKED SILT BARRIER OR SILT FENCE PROTECTION AROUND DITCH BOTTOM**

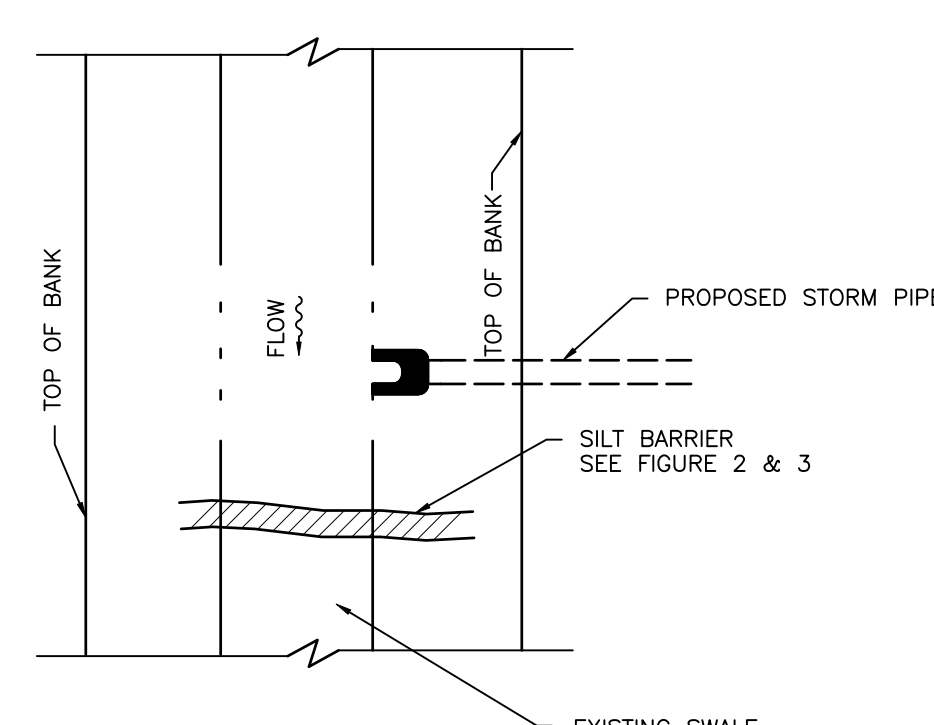
**INLETS**  
N.T.S.

FIGURE 8



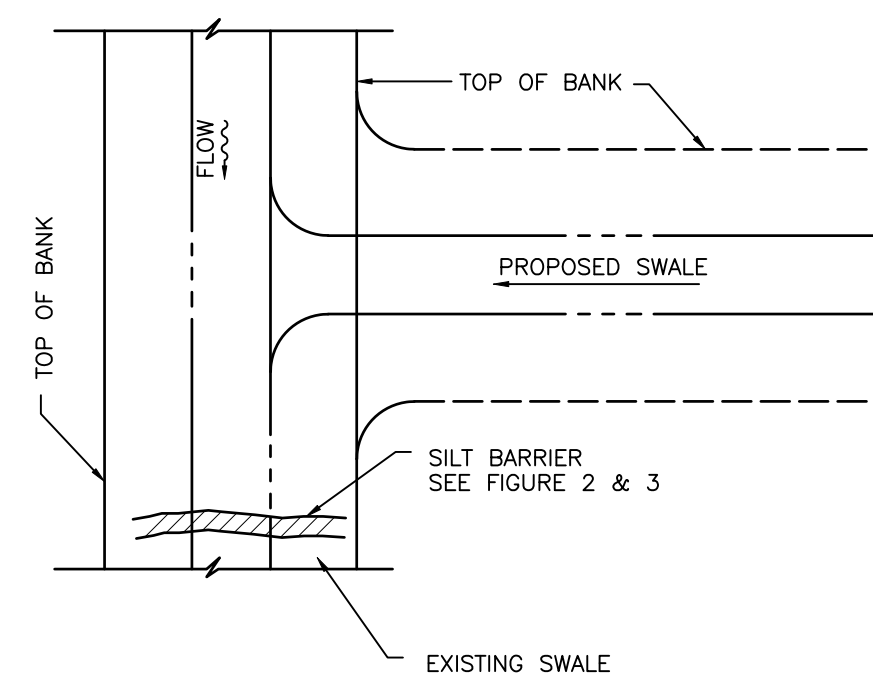
**TURBIDITY BARRIER AT CONNECTION OF STORM PIPE TO EXISTING LAKE**  
N.T.S.

FIGURE 9



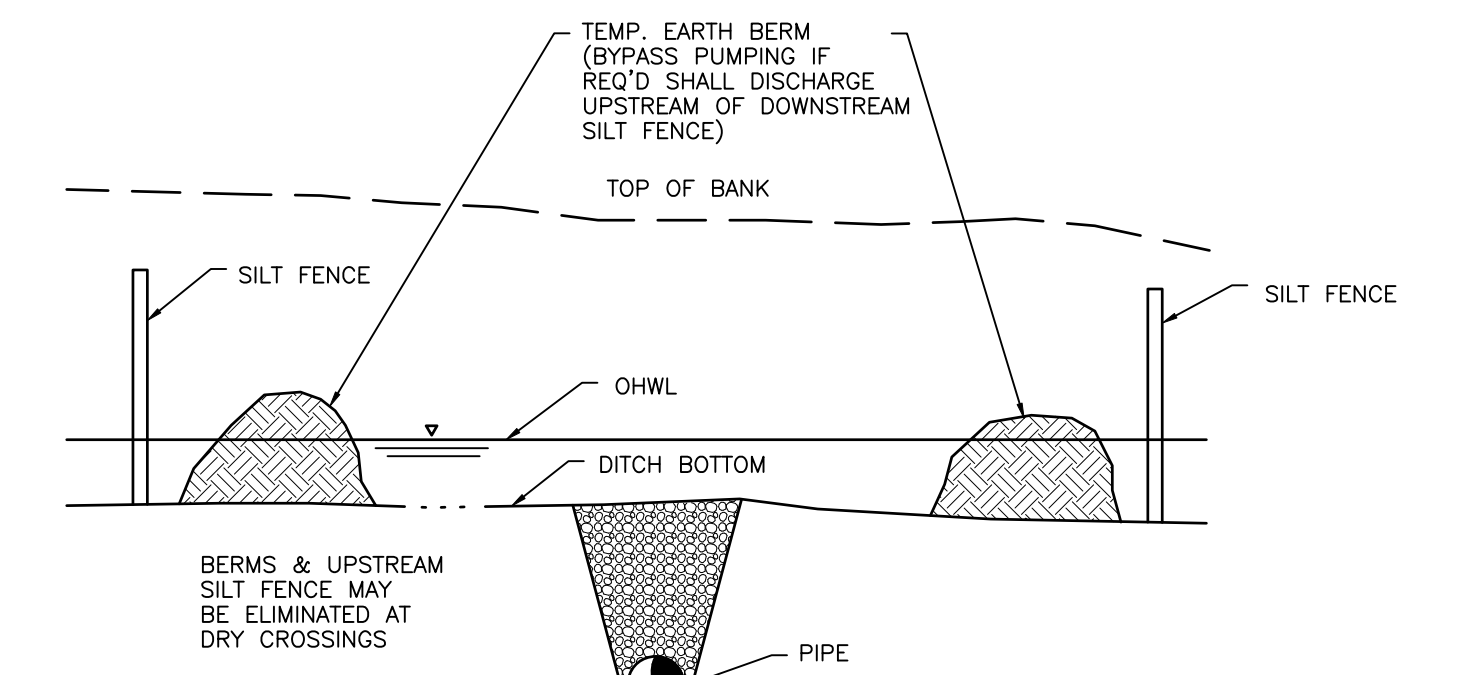
**SILT BARRIER AT CONNECTION OF STORM PIPE TO EXISTING SWALE**  
N.T.S.

FIGURE 10



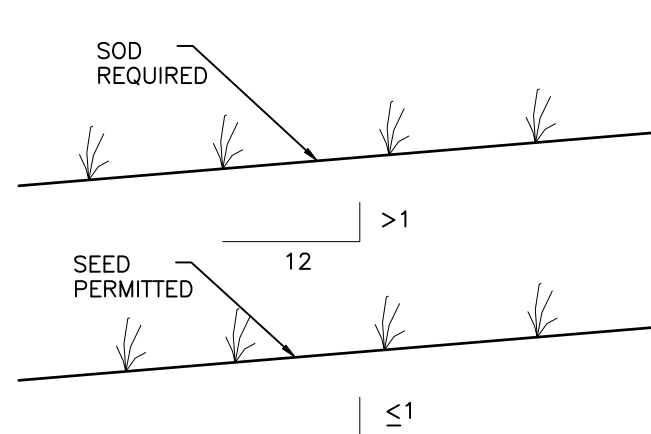
**SILT BARRIER AT CONNECTION OF SWALE TO EXISTING SWALE**  
N.T.S.

FIGURE 11



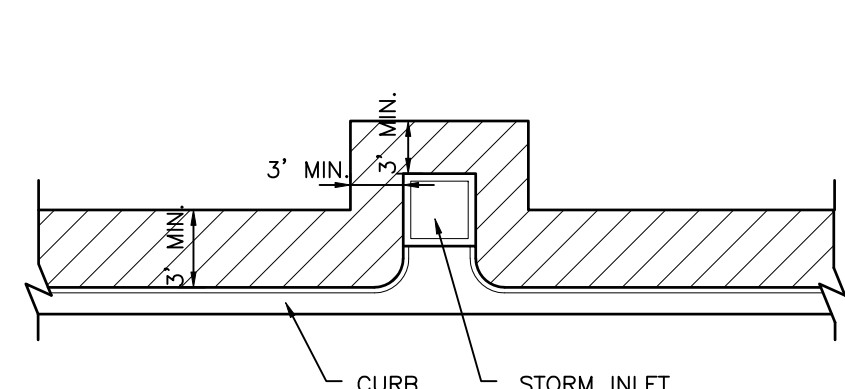
**UNDERGROUND PIPE CROSSING**  
N.T.S.

FIGURE 12



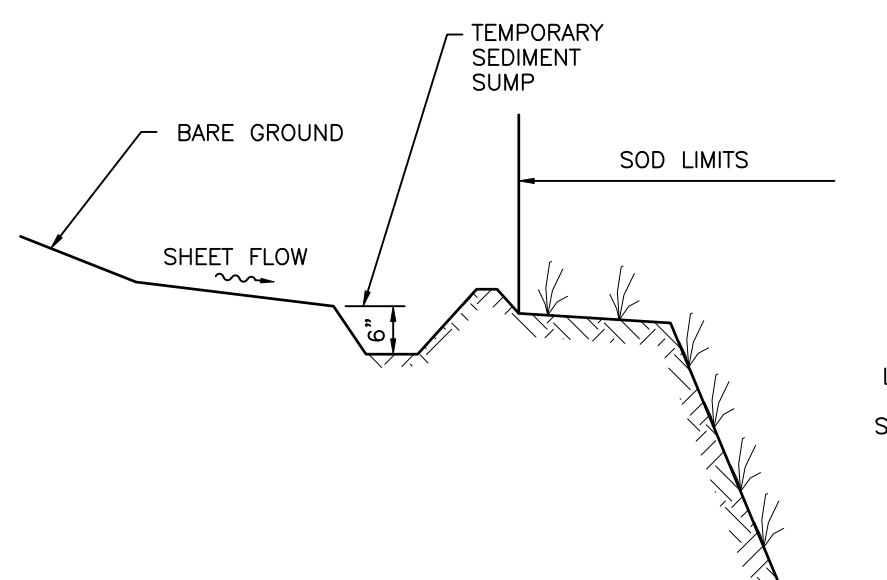
**GRASS SLOPES**  
N.T.S.

FIGURE 13



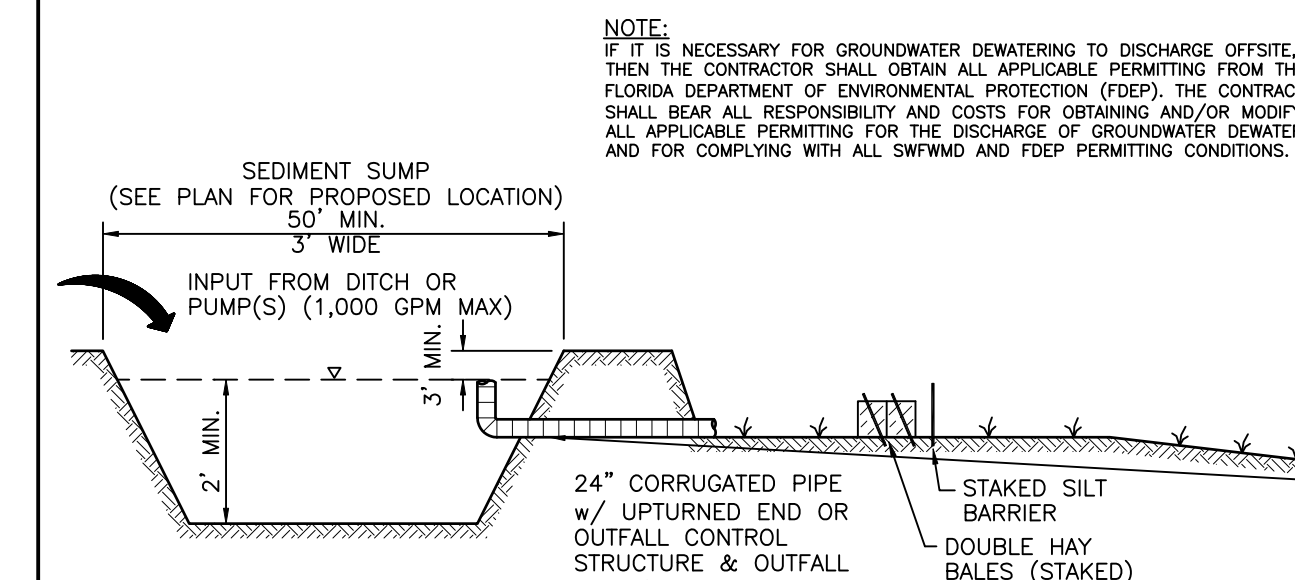
**SOD ALONG CURB AND AROUND INLET**  
N.T.S.

FIGURE 14



**TEMPORARY SEDIMENT SUMP**  
N.T.S.

FIGURE 15



**SEDIMENT SUMP SECTION**  
N.T.S.

FIGURE 16

**CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) CERTIFICATION**

OWNER/APPLICANT SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_  
OWNER: CHARLIE BISHOP  
TITLE: DIRECTOR  
COMPANY: MANATEE COUNTY PROPERTY MANAGEMENT DEPARTMENT

REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	WM APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
						DESIGNED BY:		
						DRAWN BY:	CLL/096591	12/2012
						CHECKED BY:		
						CONTRACT ADMIN. BY:		
						WM APPROVED BY:		



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Phone: 941-907-6900 • Fax: 941-907-6910  
Certificate of Authorization #43 • FL Lic. # LC-0000170 • www.stantec.com

CLIENT: MANATEE BOARD OF COUNTY COMMISSIONERS  
PROJECT: BLACKSTONE PARK EXPANSION

DATE: DECEMBER 2012  
HORIZONTAL SCALE: AS SHOWN  
VERTICAL SCALE: AS SHOWN  
SHEET: 11 OF 17E

TITLE: BEST MANAGEMENT PRACTICES DETAILS  
CROSS REFERENCE FILE NO.:  
PROJECT NUMBER: 215611237

D-215611237-019  
INDEX NUMBER:  
SHEET NUMBER: 19 OF 19

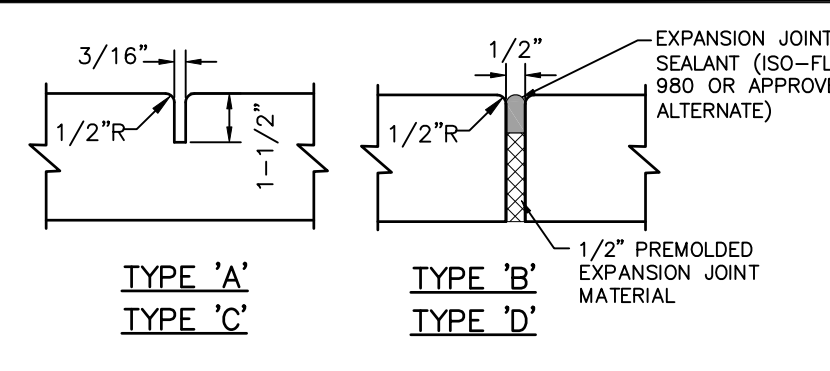
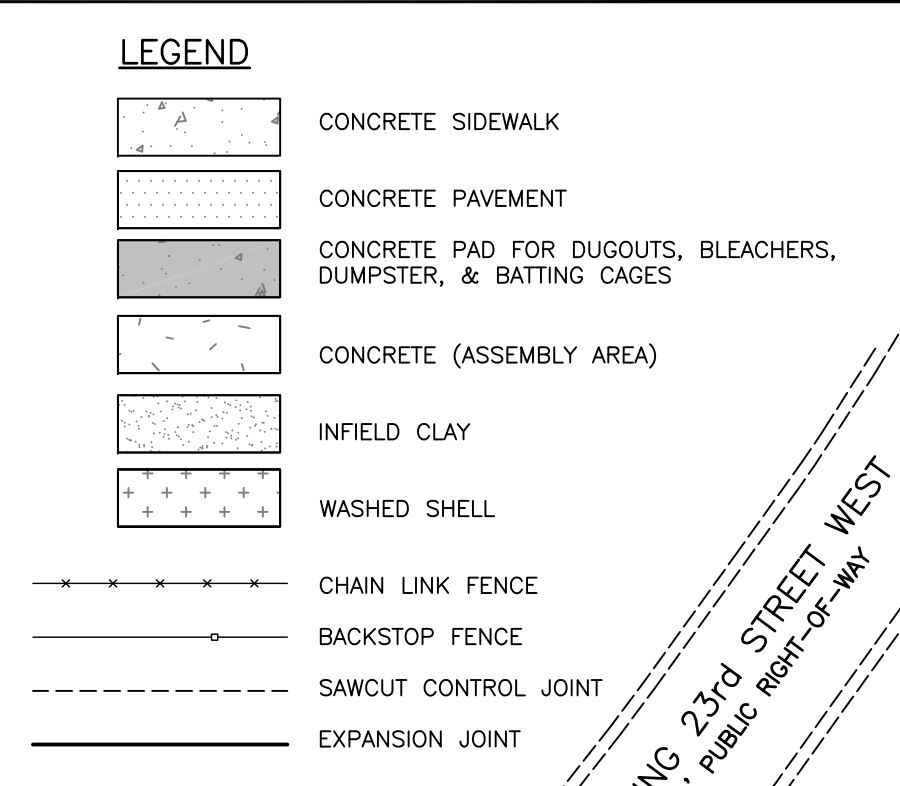
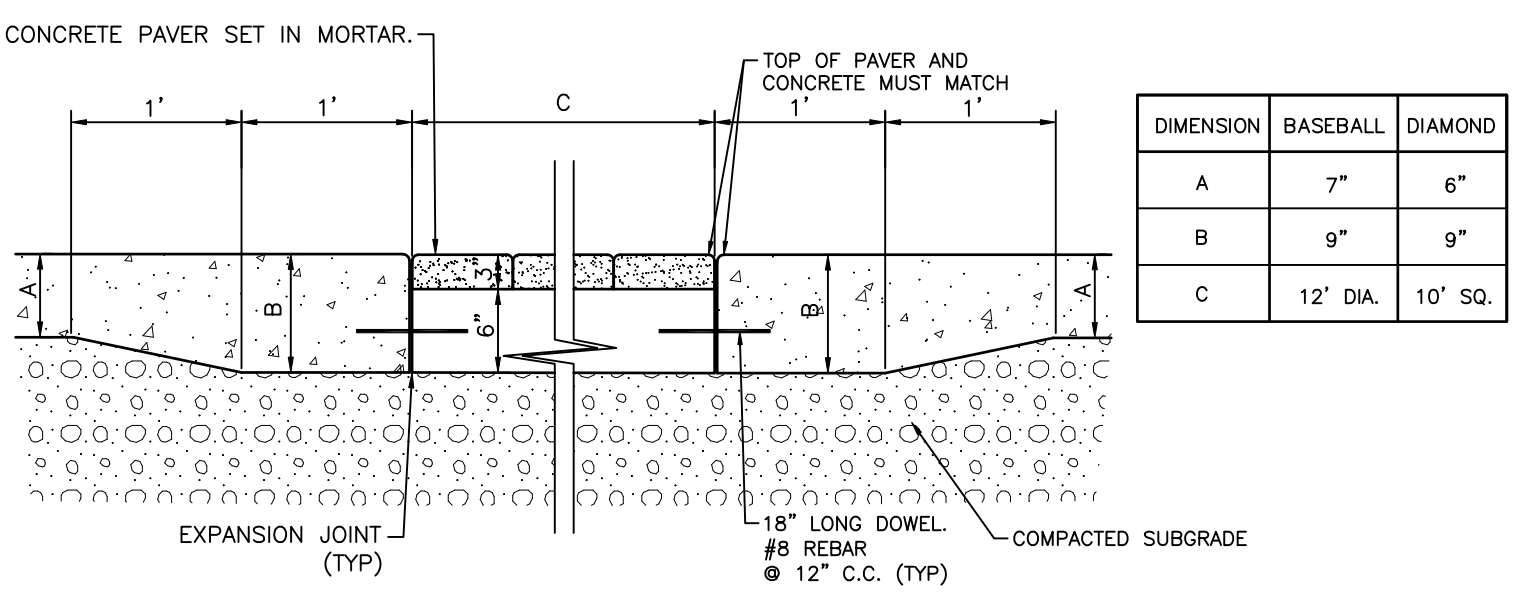


TABLE OF SIDEWALK JOINTS	
TYPE	LOCATION
(A)	SAWCUT JOINT LOCATIONS PER PLAN.
(B)	EXPANSION JOINT LOCATIONS PER PLAN. PROVIDE WHERE SIDEWALK ABUTS CONCRETE CURBS, CONCRETE PAVEMENT, CONCRETE PADS, & SIMILAR STRUCTURES. CONTRACTOR SHALL NOT ADJUST EXPANSION JOINT LOCATIONS AS SHOWN ON PLAN WITHOUT PRIOR APPROVAL OF ENGINEER.
(C)	SAWCUT CUT JOINTS FOR SIDEWALKS LOCATED WITHIN PARKING LOT AREA. SAWCUT JOINTS SHALL BE SPACED NO MORE THAN 5' C.C.
(D)	EXPANSION JOINTS FOR SIDEWALKS LOCATED WITHIN PARKING LOT AREA. PROVIDE WHERE SIDEWALK ABUTS CONCRETE CURBS, CONCRETE PAVEMENT, CONCRETE PADS, & SIMILAR STRUCTURES. EXPANSION JOINTS SHALL BE SPACED NO MORE THAN 100 FEET APART.

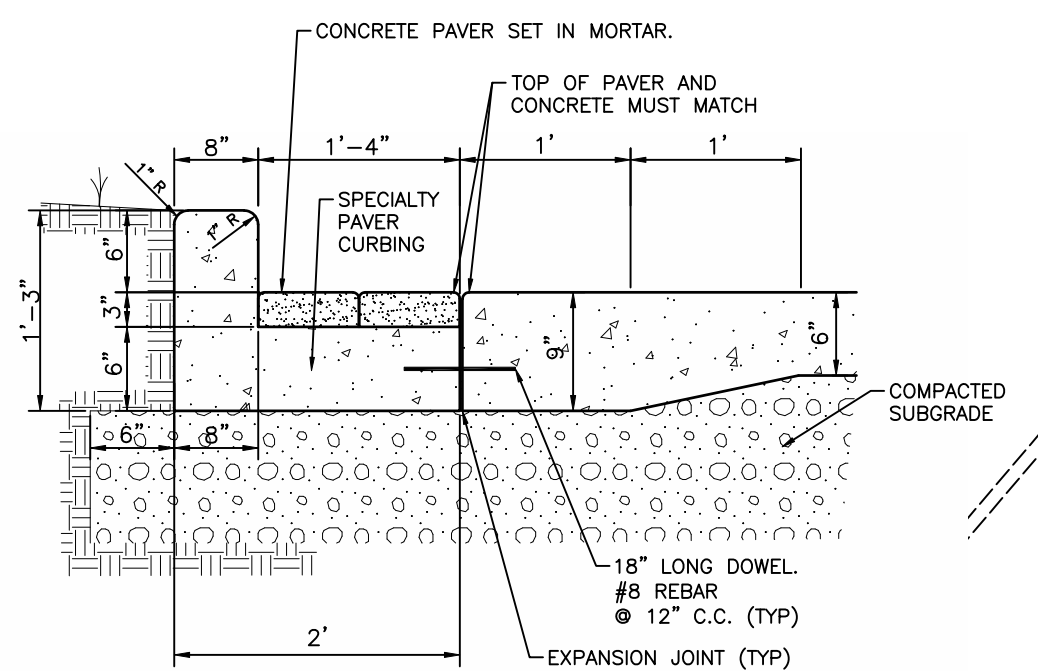


- NOTES:
- ALL ORGANIC MATERIAL & DEBRIS SHALL BE REMOVED & AREA GRADED & COMPACTED PRIOR TO CONCRETE PLACEMENT.
  - TYPE 'A' & 'C' JOINTS SHALL BE SAWCUT (MINIMUM 1-1/2" DEEP).
  - ALL SIDEWALKS AND SIDEWALK CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA), FLORIDA ACCESSIBILITY CODE AND F.D.O.T. INDEX #304.
  - CONTRACTOR SHALL ENSURE THAT ALL JOINTS ARE STRAIGHT AND TRUE. JOINTS THAT ARE NOT SAWCUT/FORMED STRAIGHT ARE SUBJECT TO REJECTION.

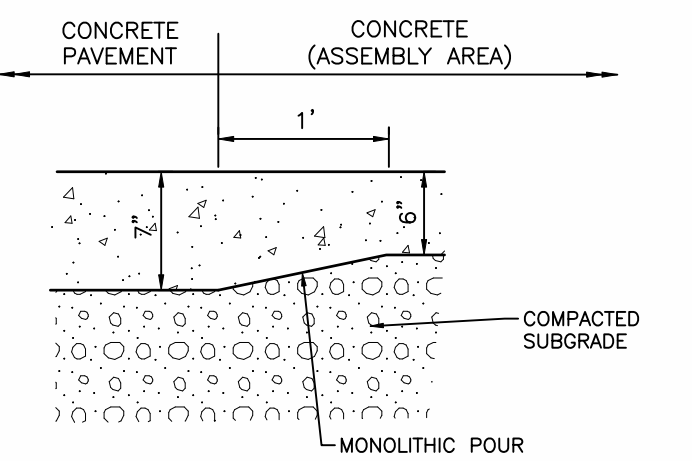
**TYPICAL CONCRETE JOINTS DETAIL**  
N.T.S.



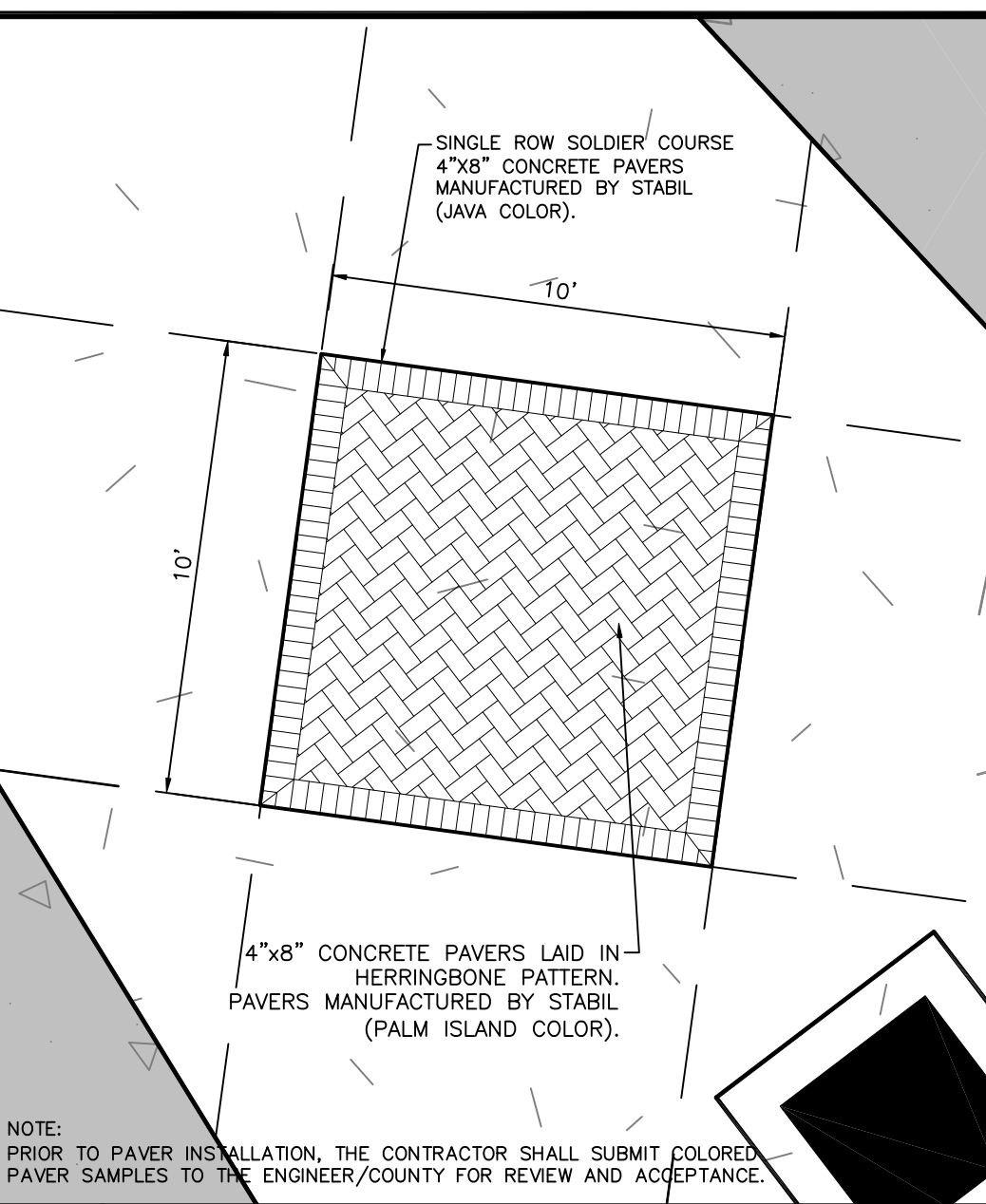
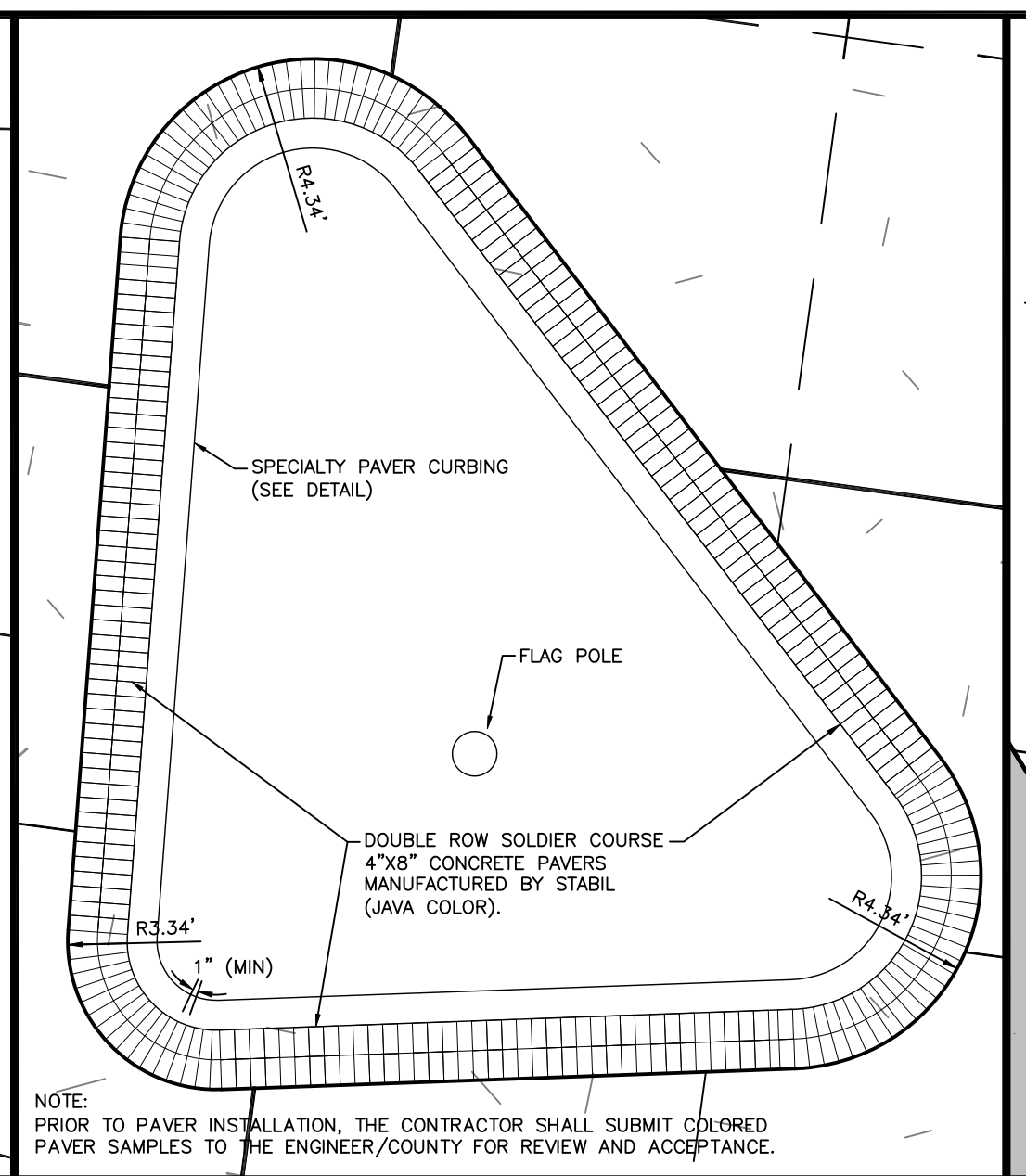
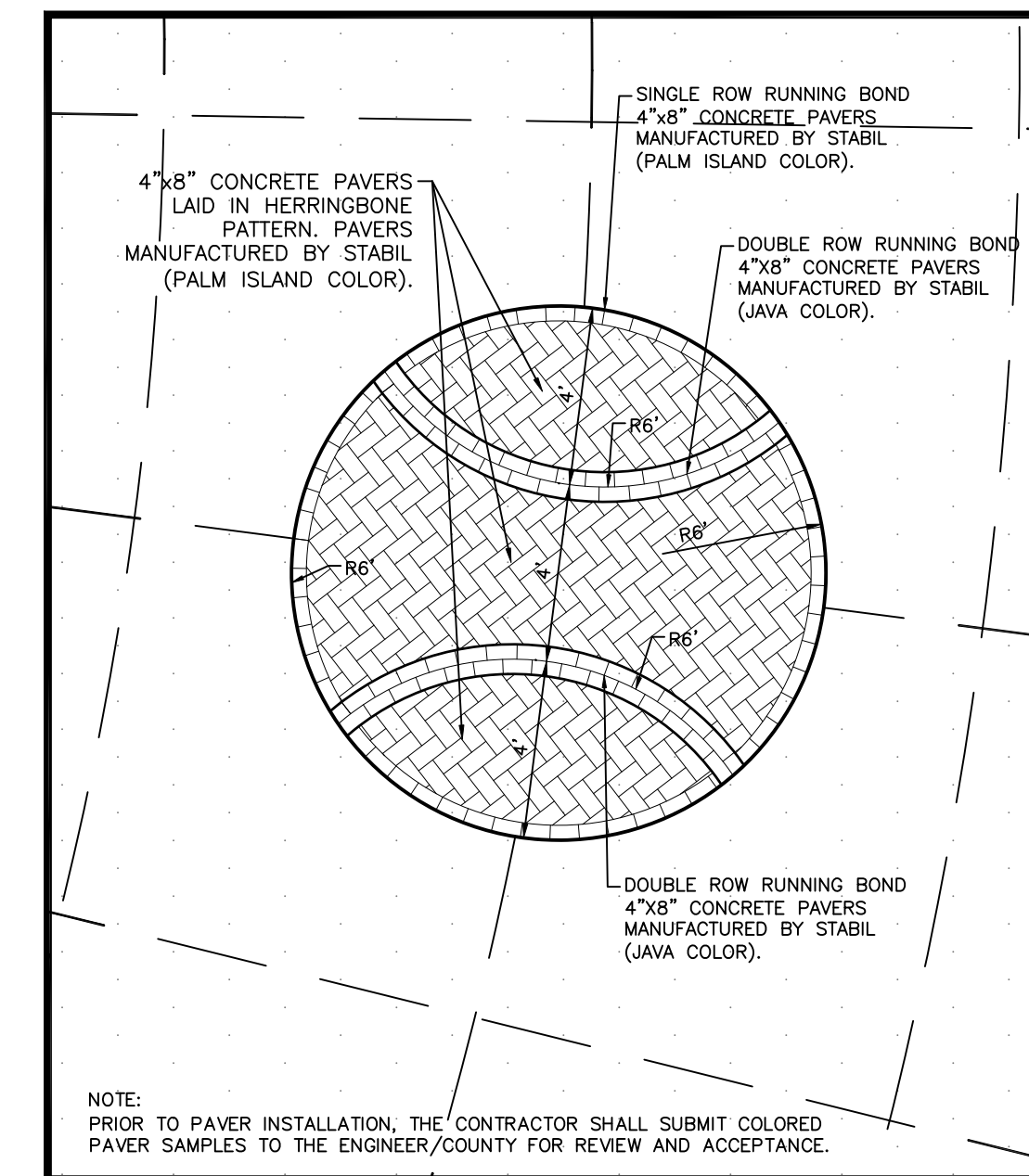
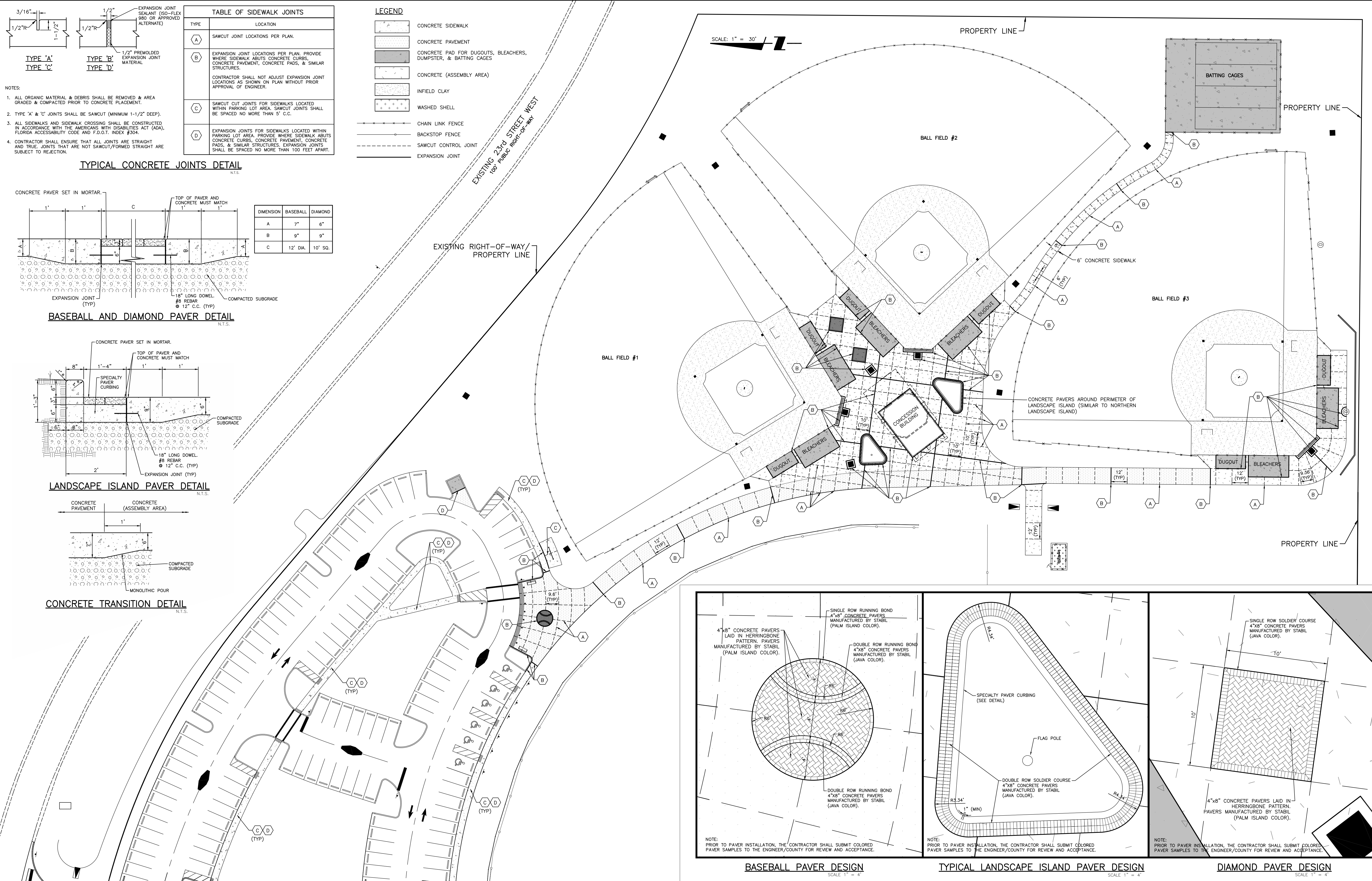
**BASEBALL AND DIAMOND PAVES DETAIL**  
N.T.S.



**LANDSCAPE ISLAND PAVES DETAIL**  
N.T.S.



**CONCRETE TRANSITION DETAIL**  
N.T.S.



REV. NO.	REVISION	DATE	DRAWN BY / EMP. NO.	CHECKED BY / EMP. NO.	W/M APPROVED BY:	ACTIVITY	INITIALS/EMP. NO.	DATE
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						DRAWN BY:	CLL/096591	12/2012
						CHECKED BY:		
						CONTRACT ADMIN. BY:		

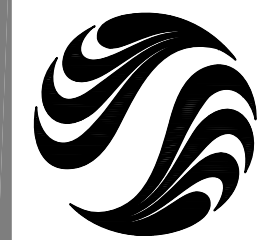
**WilsonMiller Stantec**  
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Certificate of Authorization #43 • FL LIC. #LC-0000170 • www.stantec.com

CLIENT:	MANATEE BOARD OF COUNTY COMMISSIONERS
PROJECT:	BLACKSTONE PARK EXPANSION

DATE:	DECEMBER 2012	TITLE:	CONCRETE AND PAVES SURFACING PLAN AND DETAILS
HORIZONTAL SCALE:	1" = 30'	INDEX NUMBER:	D-215611237-01
VERTICAL SCALE:	NA	CROSS REFERENCE FILE NO.:	PROJECT NUMBER: 215611237
SEC. TWP. RSE:	11 34S 17E	SHEET NUMBER:	1 OF 1







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Contract # 14000000000000000000 - Florida License # LC-0000170

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Notes

Revision

1. 100% PLAN SET  
Issued

File Name:

By Appd. MM.DD.YY

ASM SAB 02.22.13  
By Appd. YY.MM.DD

ASM SAB 12.04.12  
Dwn. Chkd. Dsgn. MM.DD.YY

SCOTT A. BUTTARI, L.A.  
FLORIDA LICENSE NO. 0601798

Client/Project

Manatee County Board of County Commissioners

**Blackstone Park  
Expansion**

City of Palmetto, Florida

Title

**LANDSCAPE  
MATERIALS / SURFACES PLAN**

Project No.  
215611237

Drawing No.

Scale 25 50 75 125

Sheet of Revision

LP-401

of 0





23rd STREET W

TOP OF BANK  
(TYP.)

DRY DETENTION AREA

LIMITS OF  
DEVELOPMENT  
(TYP.)

LIMITS OF  
DEVELOPMENT  
(TYP.)

-  Mulch
-  Sod A - Bermuda
-  Sod B - Tif-419
-  Sod C - Bahia



CLAY INFIELD  
SURFACE (TYP.)

CLAY INFIELD  
SURFACE (TYP.)

CLAY INFIELD  
SURFACE (TYP.)

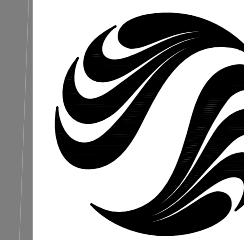
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2012/05/22 3:12 PM By: Markie, Adam

ORIGINAL SHEET - ARCH D









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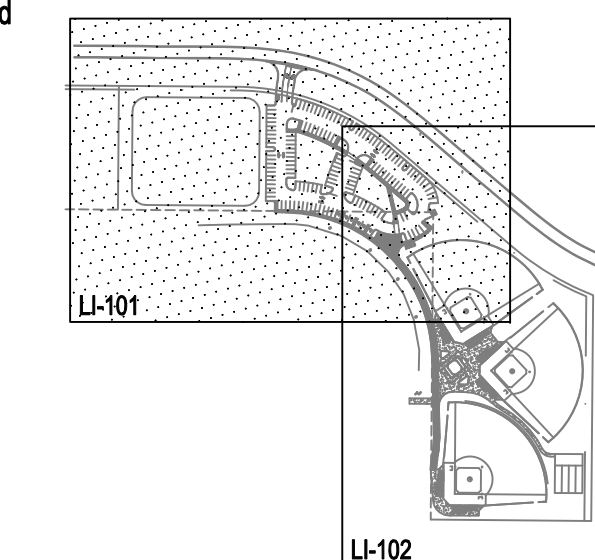
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Revision

2. 100% PLAN SET  
1. 90% PLAN SET

Issued

File Name:

ASM	SAB	12.04.12
Dwn.	Chkd.	Dsgn.

Client/Project

Manatee County Board of County Commissioners

**Blackstone Park Expansion**

City of Palmetto, Florida

Title

LANDSCAPE  
IRRIGATION PLAN - NORTH WEST

Project No.  
215611237

Scale  
15 30 45 75

Drawing No.

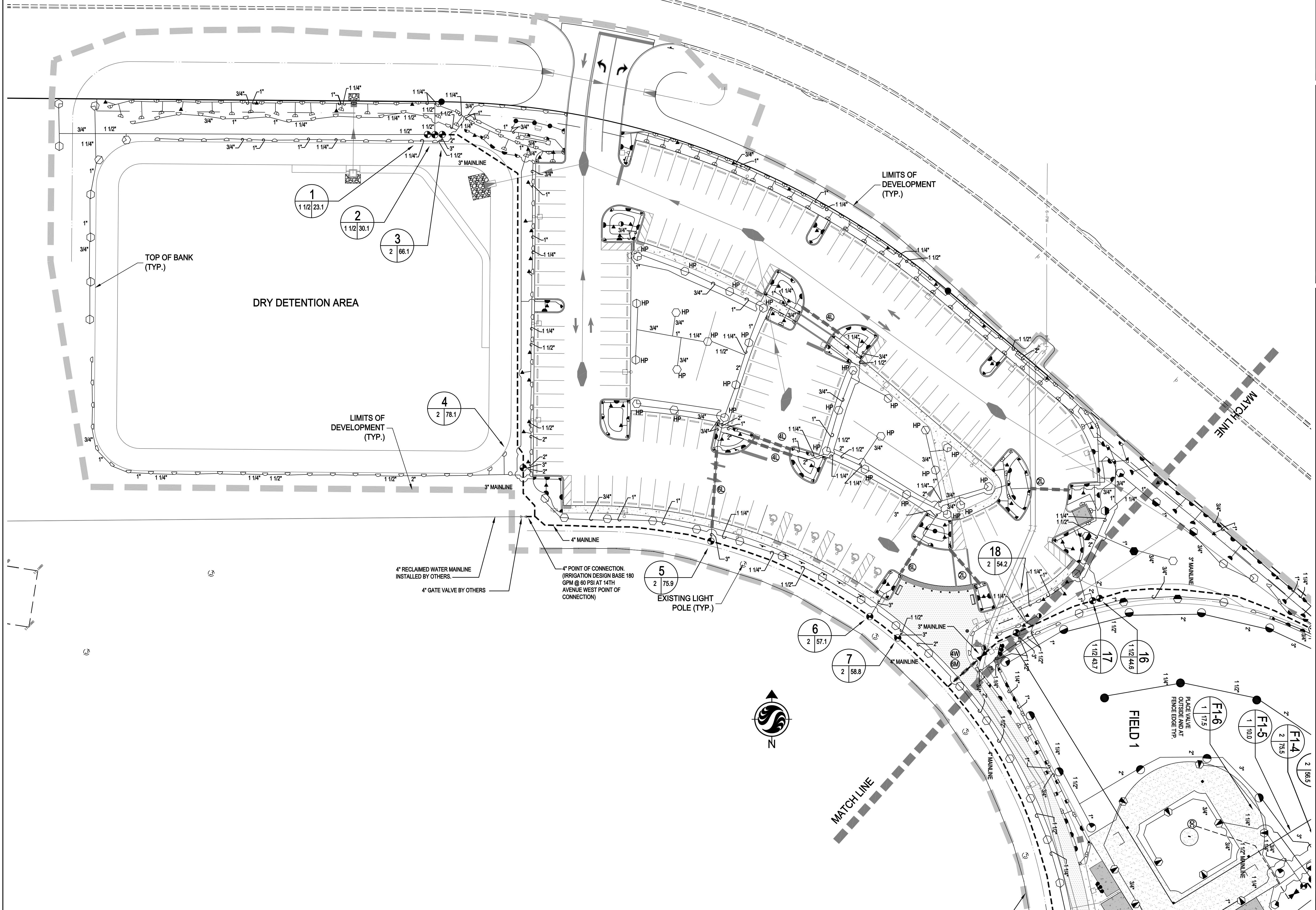
Sheet of Revision

LI-101

of

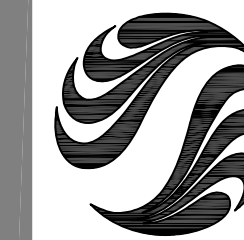
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23rd STREET W



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2012/02/22 3:13 PM By: Markie, Adam





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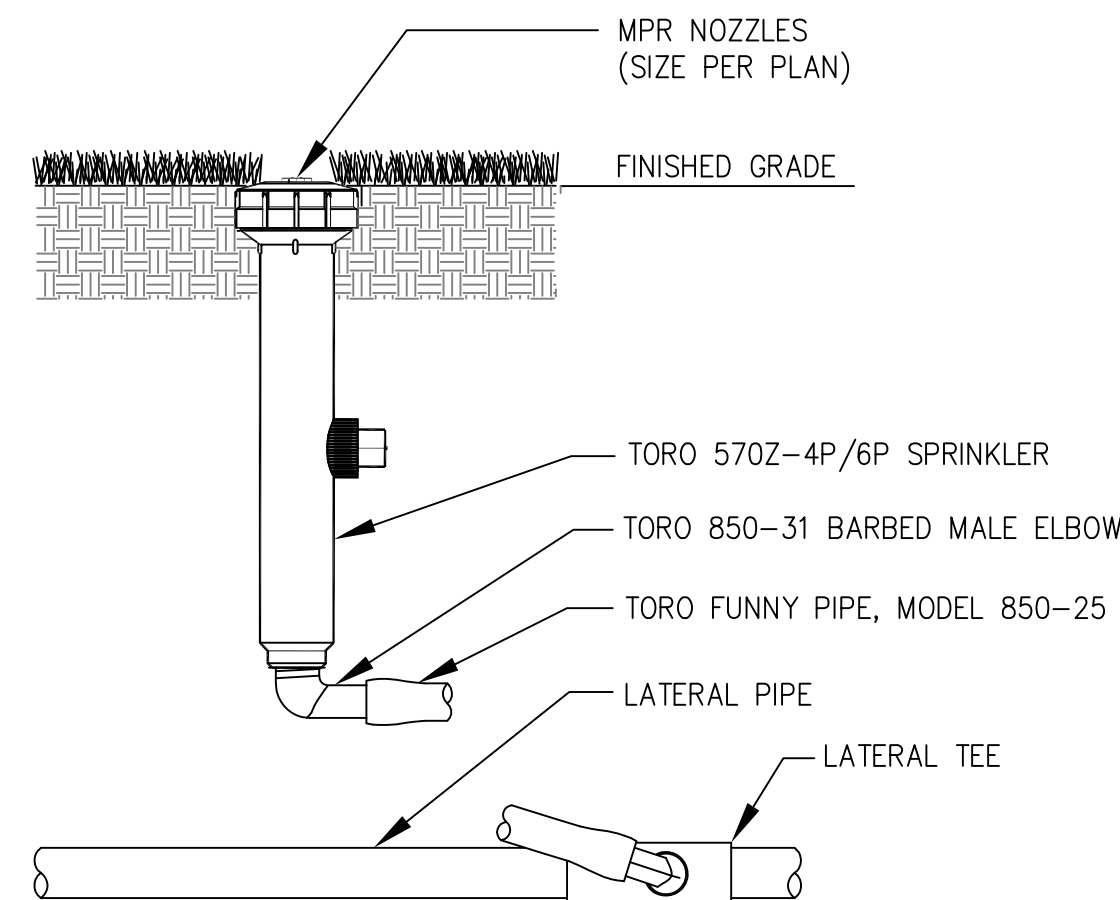
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Phone: (941) 795-7458

Legend

Notes

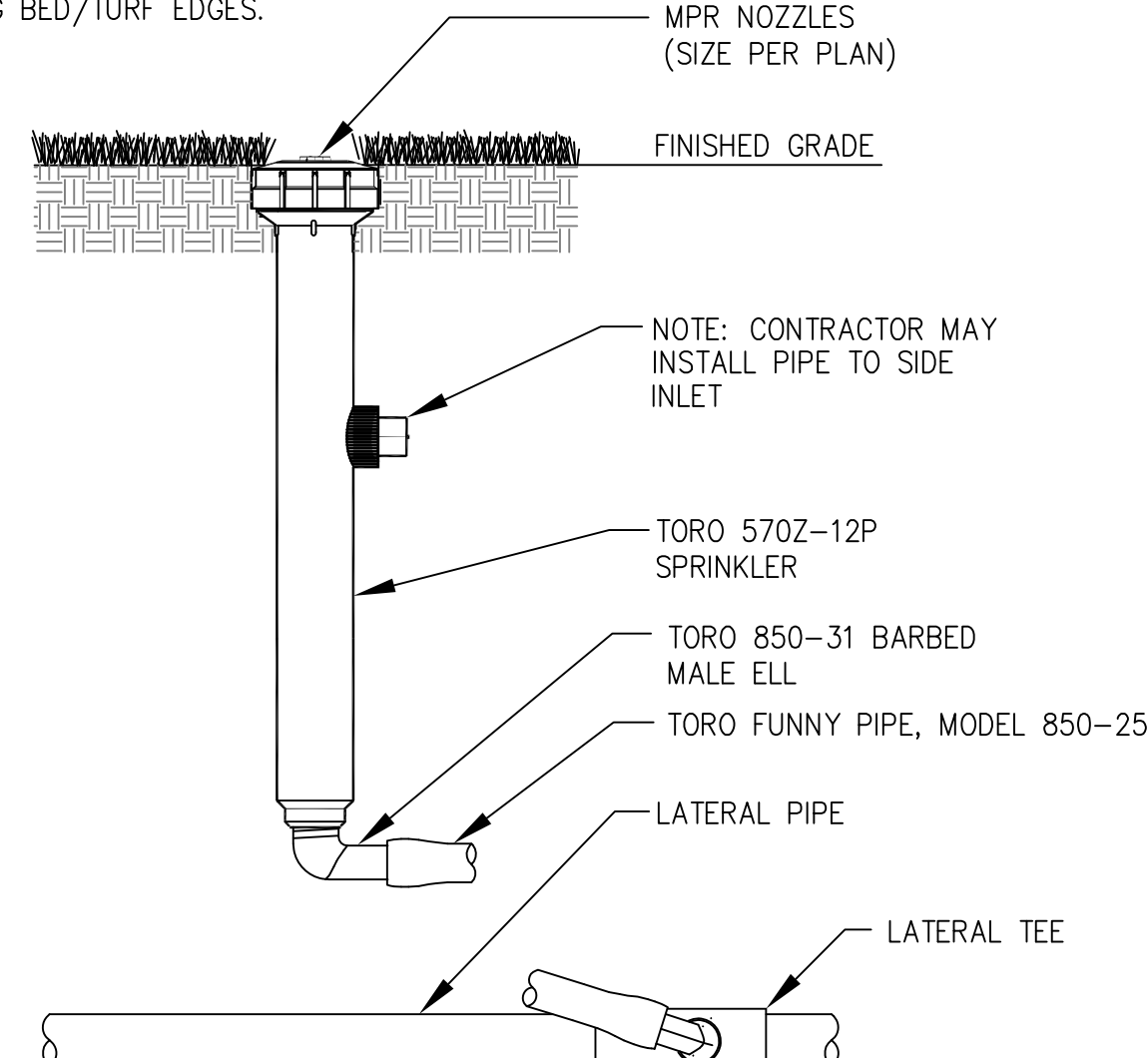
NOTE: TORO 570Z-6P SPRINKLERS TO BE INSTALLED UNLESS NOTED OTHERWISE.



**TORO 570Z-6P SPRINKLER**

NTS

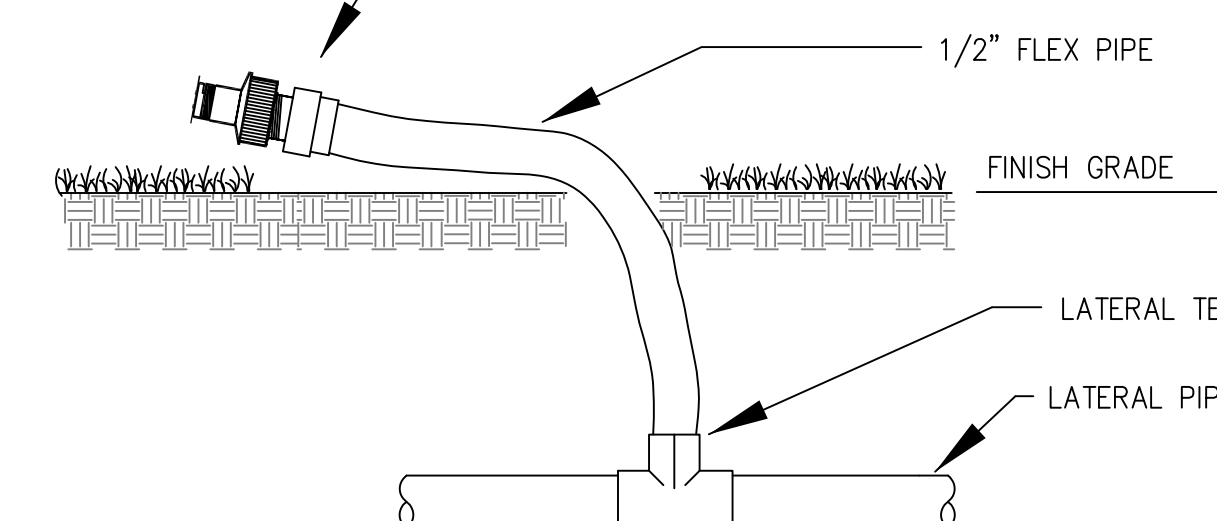
NOTE: TORO 570Z-12P SPRINKLERS TO BE INSTALLED IN PLANTING BED/TURF EDGES.



**TORO 570Z-12P SPRINKLER**

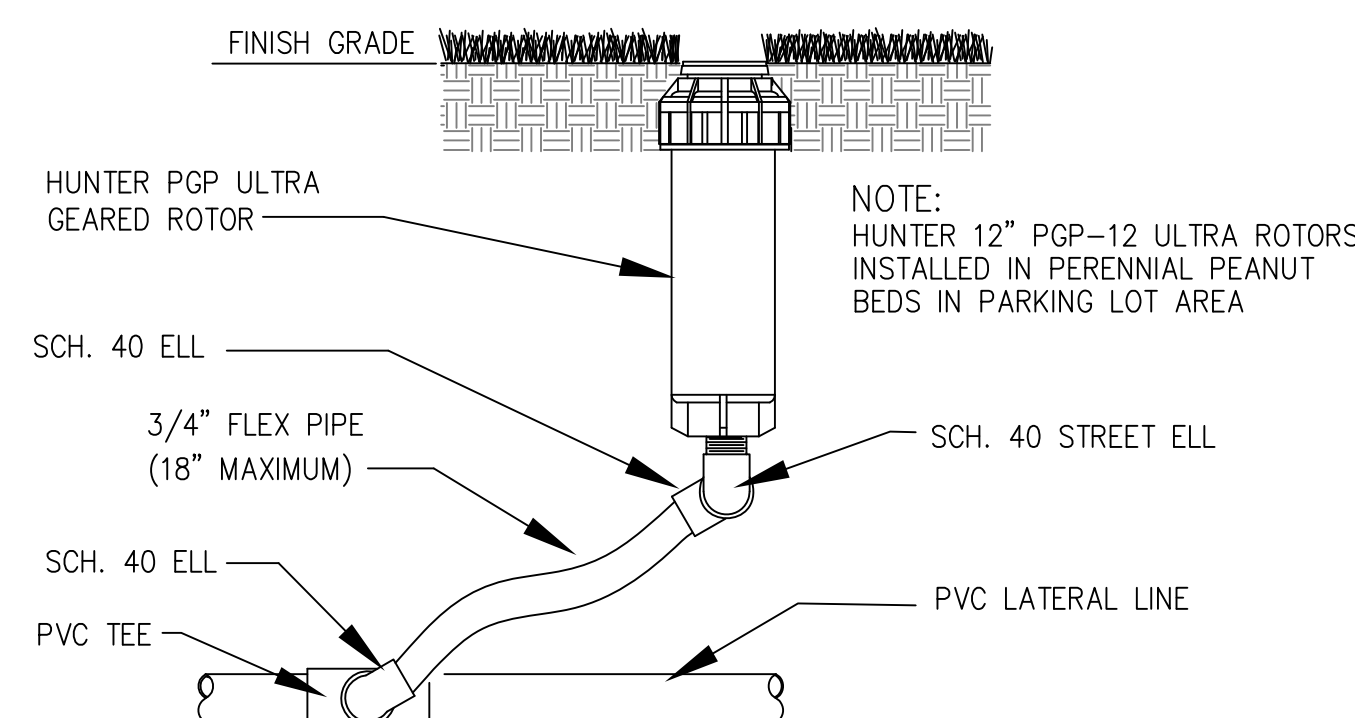
NTS

TORO PRESSURE COMPENSATING FLOOD BUBBLER  
MODEL FB-25-PC, 0.25 GPM INSTALLED ON ROTOR ZONES  
MODEL FB-50-PC, 0.50 GPM INSTALLED ON SPRAY ZONES  
NOZZLE TO BE MOUNTED ON TORO 570S-E SHRUB ADAPTER



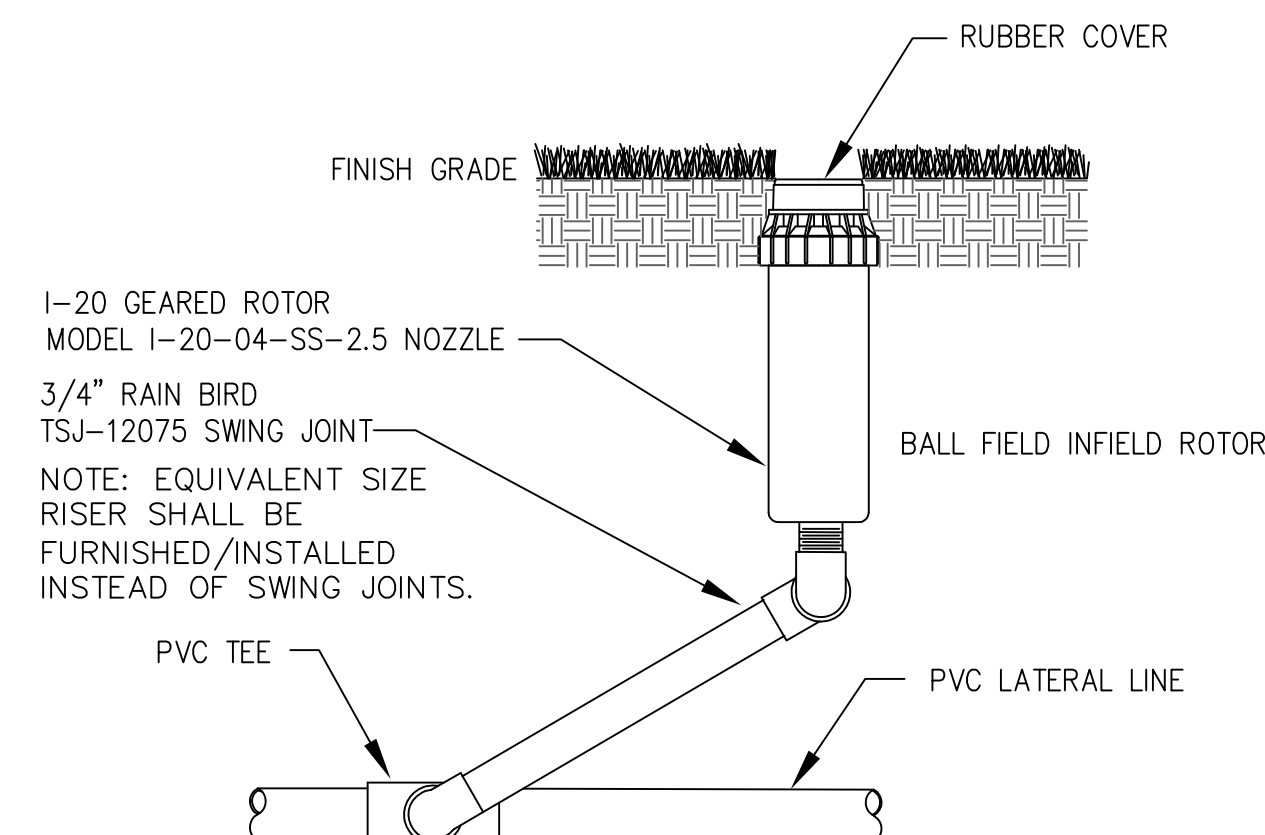
**TORO FB SERIES BUBBLER**

NTS



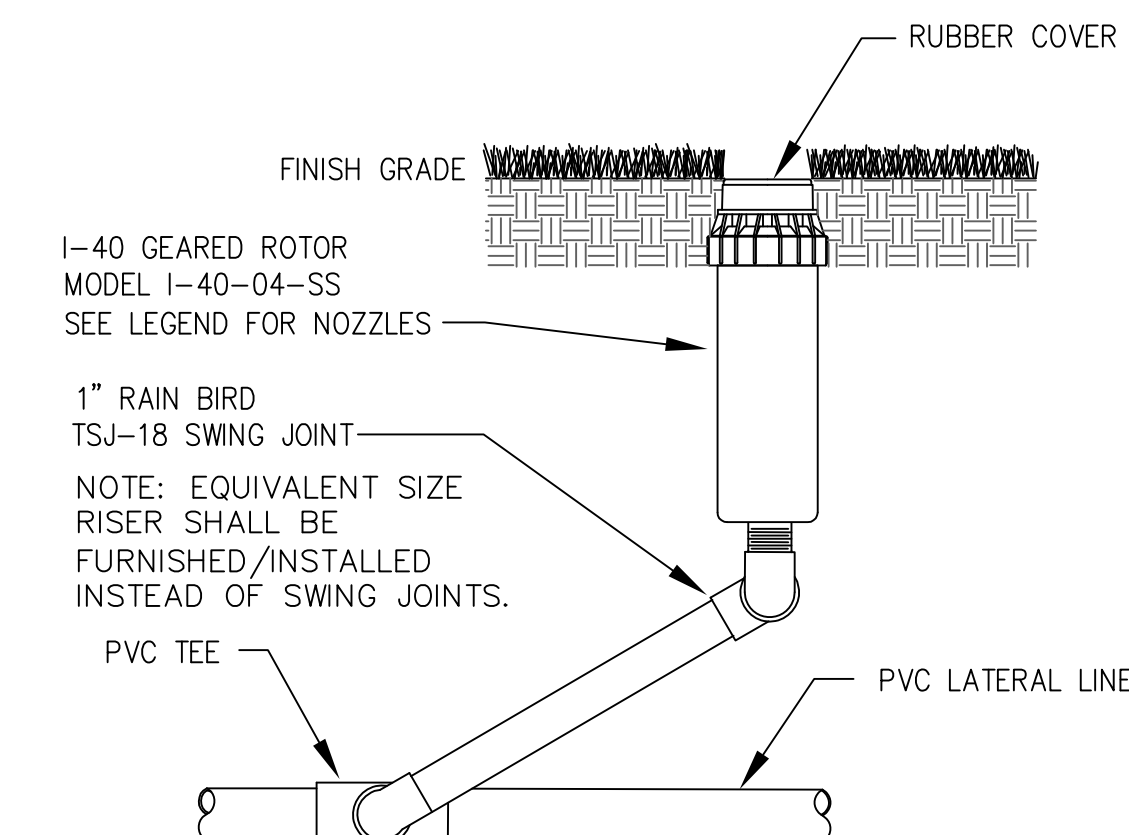
**HUNTER 4 1/2" PGP ULTRA SERIES ROTOR**

NTS



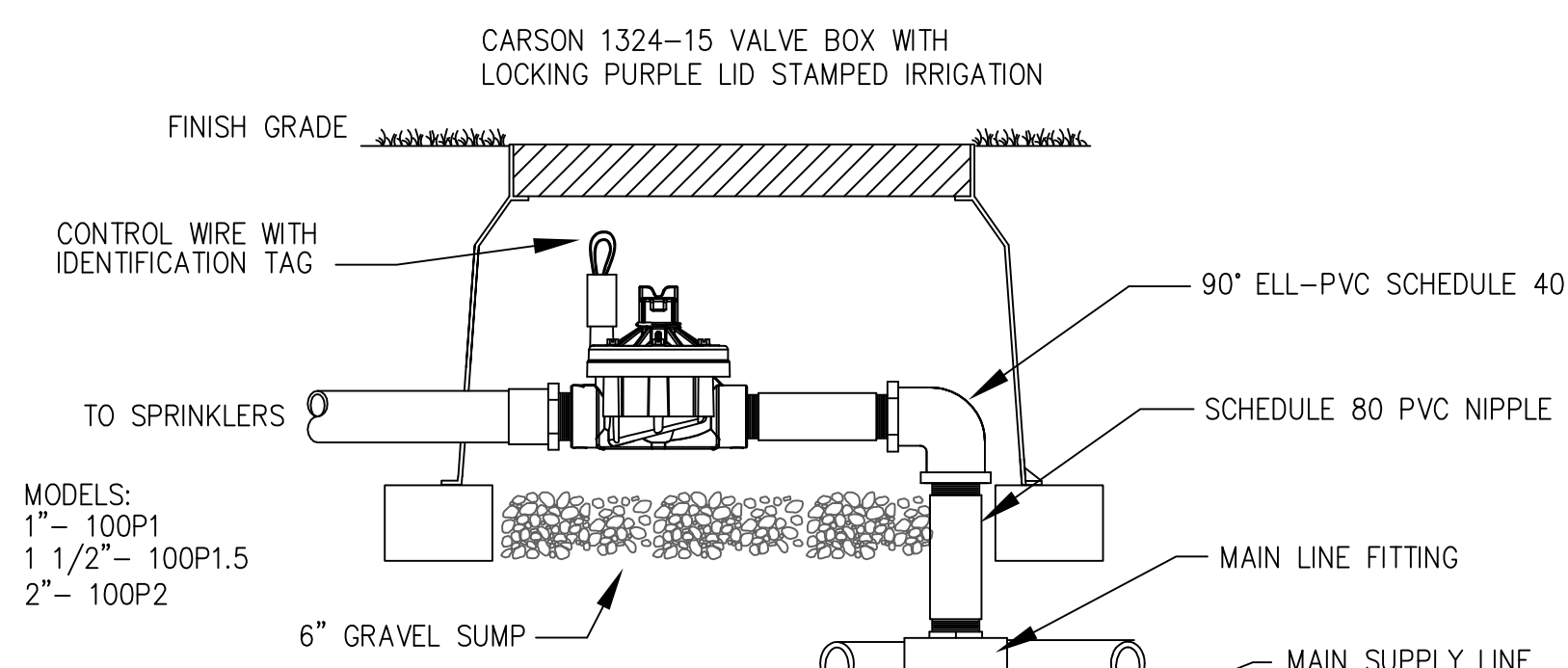
**HUNTER I-20 GEAR ROTOR**

NTS



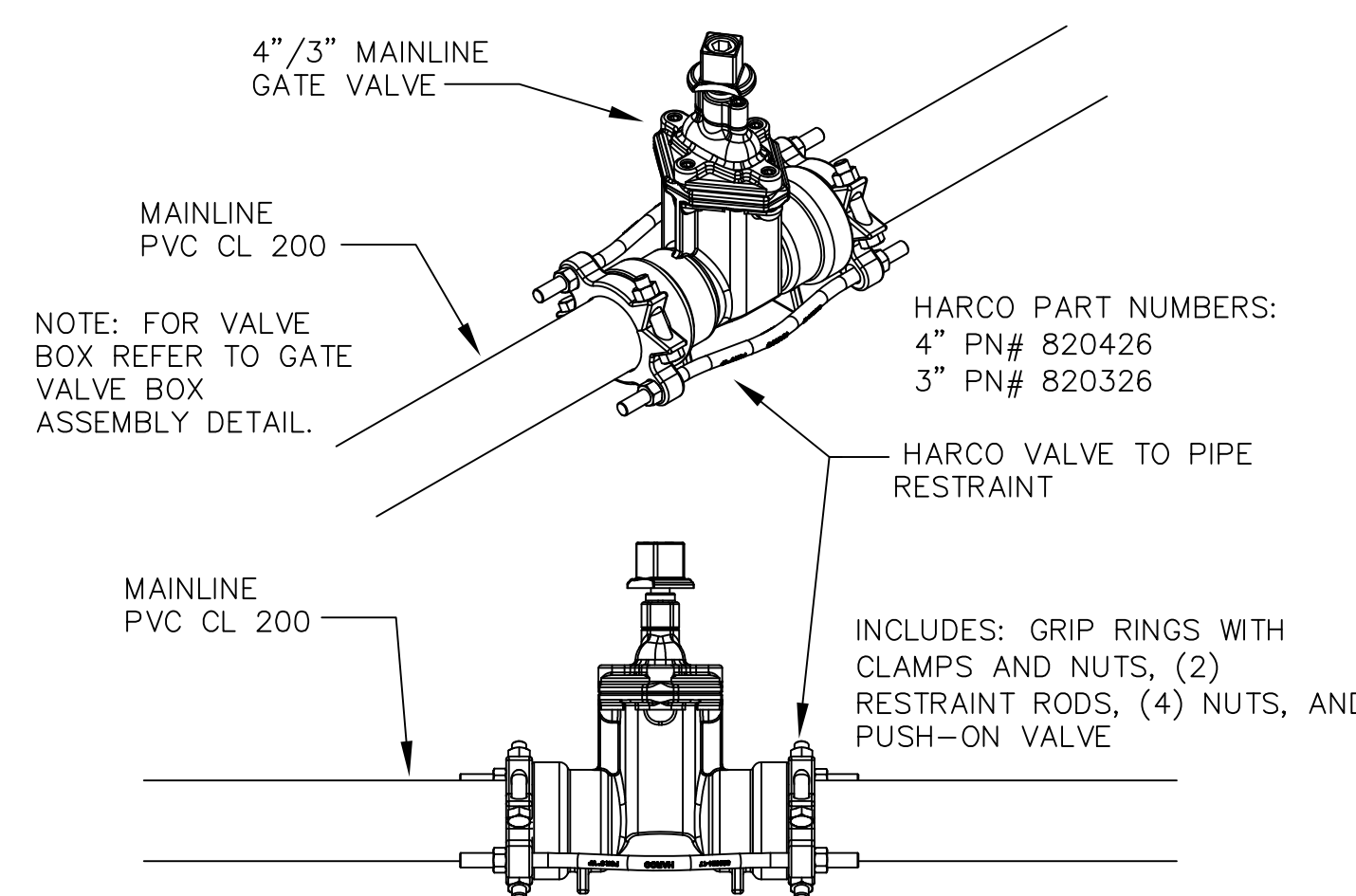
**HUNTER I-40 GEAR ROTOR**

NTS



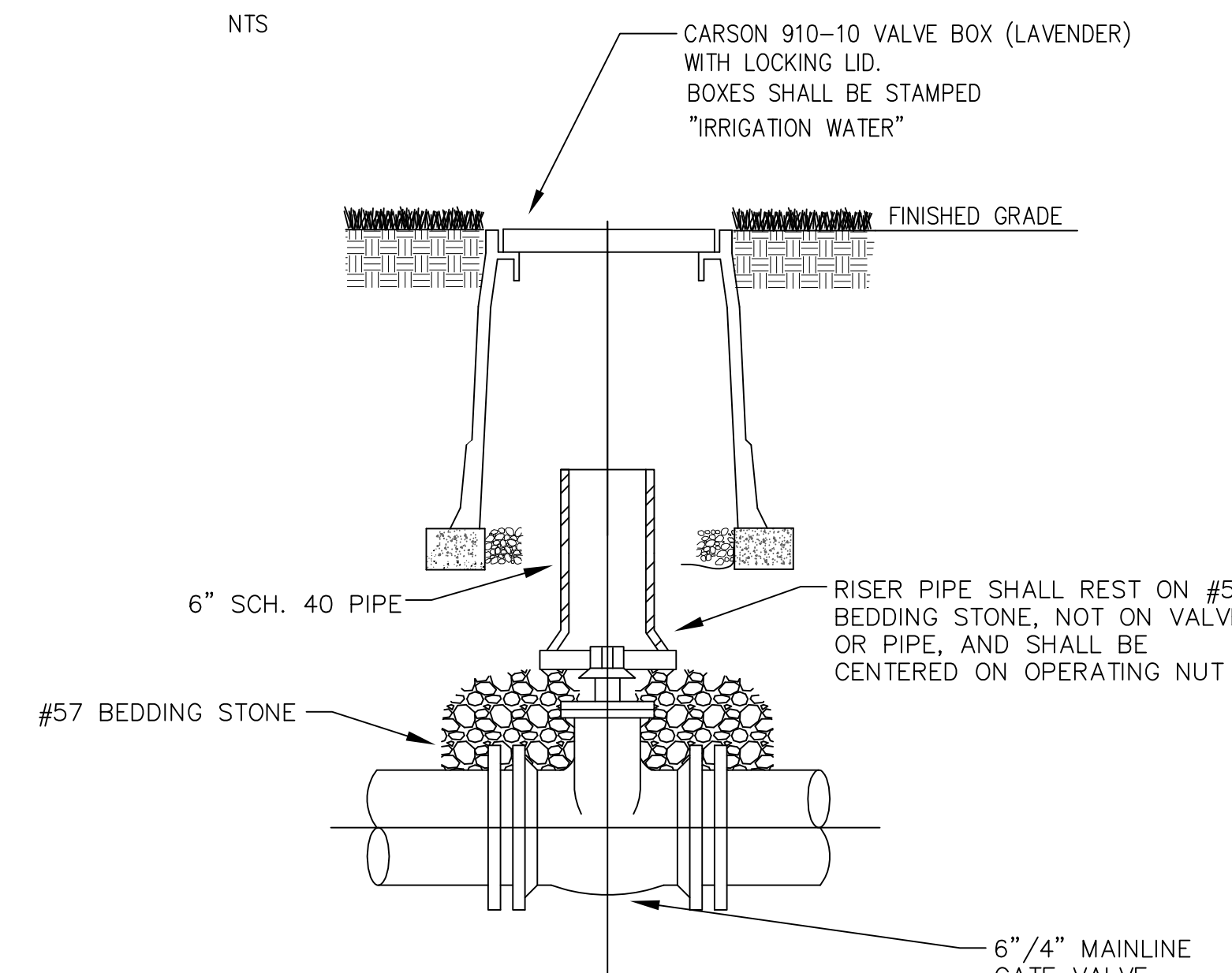
**IRRITROL 100-S SERIES CONTROL VALVE**

NTS



**4 1/3" MAINLINE GATE ASSEMBLY**

NTS



**GATE VALVE BOX ASSEMBLY**

NTS

Revision	By	Appd.	MM.DD.YY	
3. REVISE SWING JOINT NOTE TO REQUIRE RISER	DJB	ASM	06.24.13	
2. 100% PLAN SET	ASM	SAB	02.22.13	
1. 90% PLAN SET	ASM	SAB	02.13.13	
Issued	By	Appd.	MM.DD.YY	
File Name:	ASM	SAB	12.04.12	
	Dwn.	Chkd.	Dsgn.	MM.DD.YY

Client/Project  
**Manatee County Board of County Commissioners**

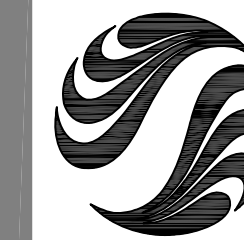
**Blackstone Park Expansion**  
City of Palmetto, Florida

Title  
**LANDSCAPE IRRIGATION DETAILS**

Project No. 215611237	Scale 15 30 45 75
Drawing No.	Sheet of Revision

LI-501 of 0

V:\215611237\landscape\design\sheet\sheet1237-01-1500.dwg  
2013/05/24 3:22 PM By: Brandon



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Sarasota, Florida 34240, U.S.A.

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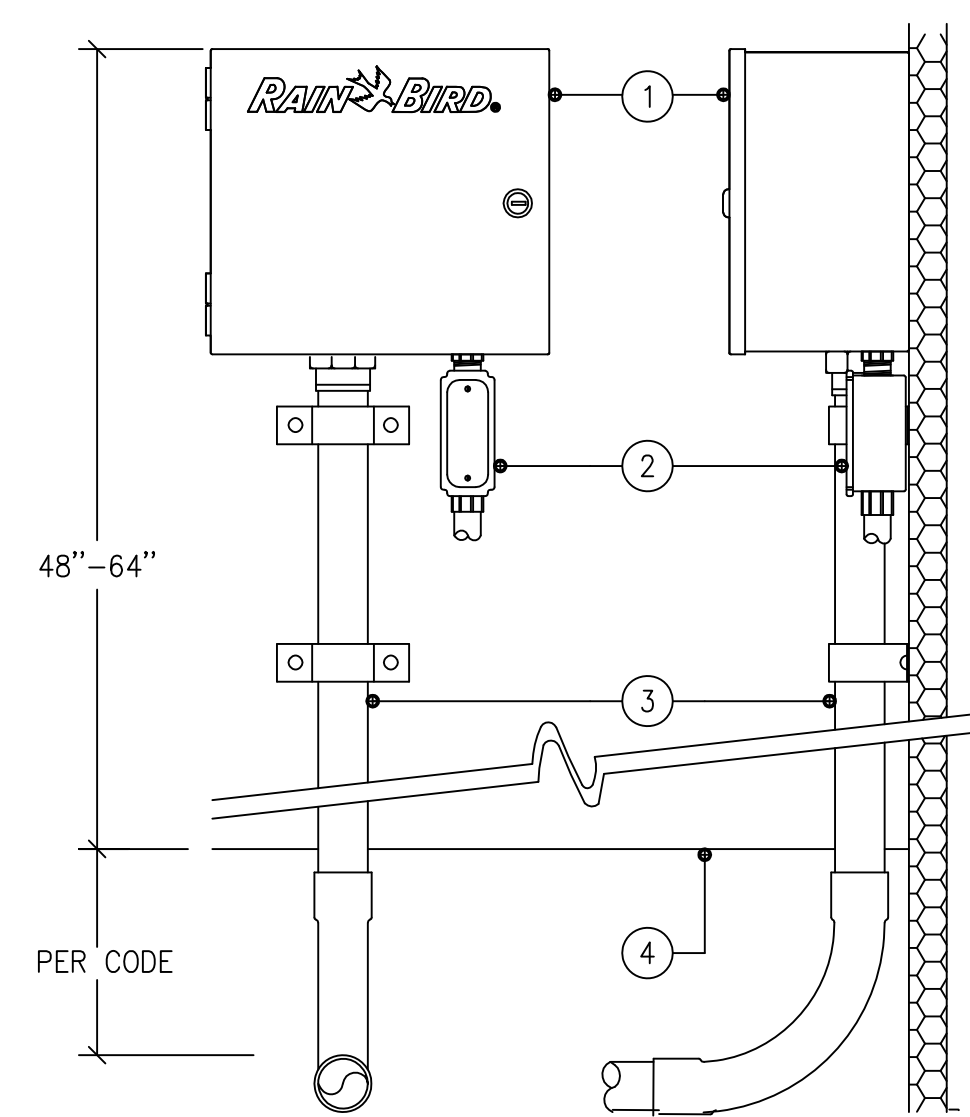
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Phone: (941) 795-7458

Legend

Notes



FRONT SECTION/ELEVATION  
RIGHT-SIDE SECTION/ELEVATION

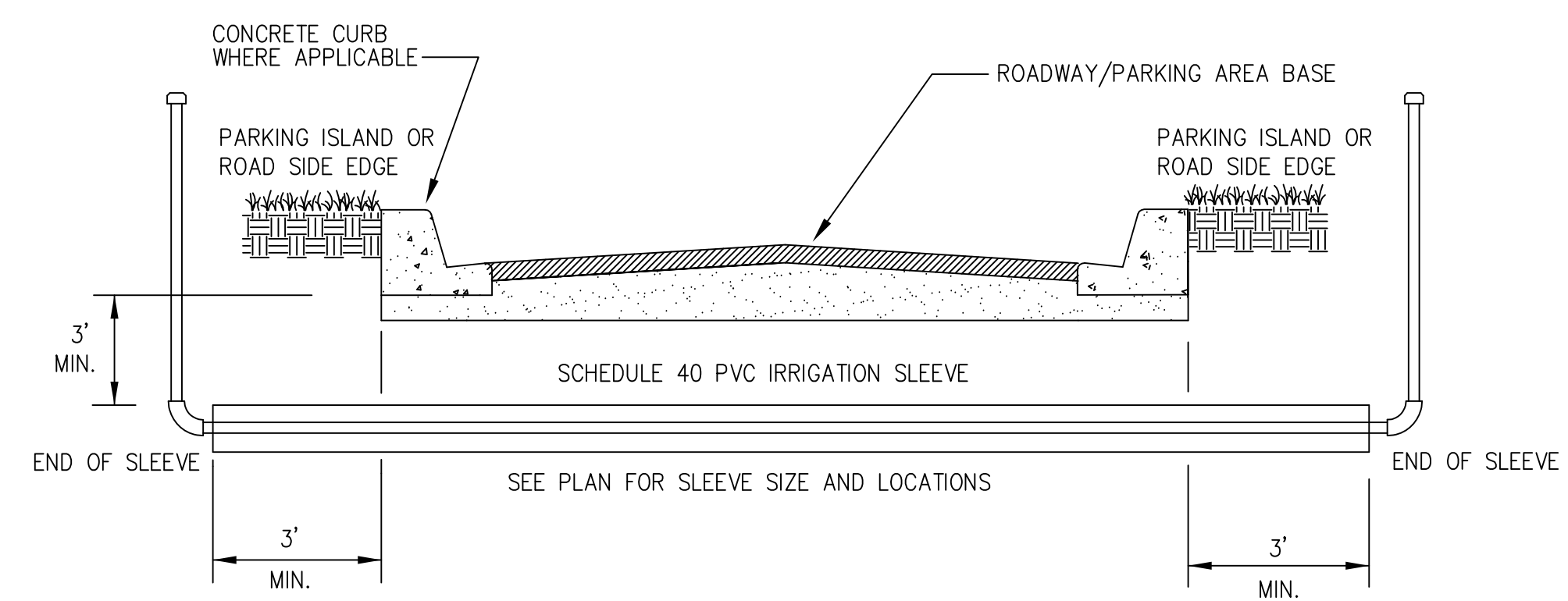
**RAIN BIRD ESP-LXME CONTROLLER**

NTS

- ① RAIN BIRD LXME CONTROLLER MODEL ESP12LXME WITH (2) ESPLXMSM12 MODULES  
WALL MOUNT ANCHOR SECURELY TO WALL
- ② 3/4" CONDUIT FOR ELECTRICAL POWER CONDUCTORS PER LOCAL AND NATIONAL CODES
- ③ 2" CONDUIT FOR REMOTE CONTROL VALVES AND SENSOR WIRES  
SECURE TO WALL WITH APPROPRIATE PIPE CLAMPS
- ④ FINISHED SURFACE

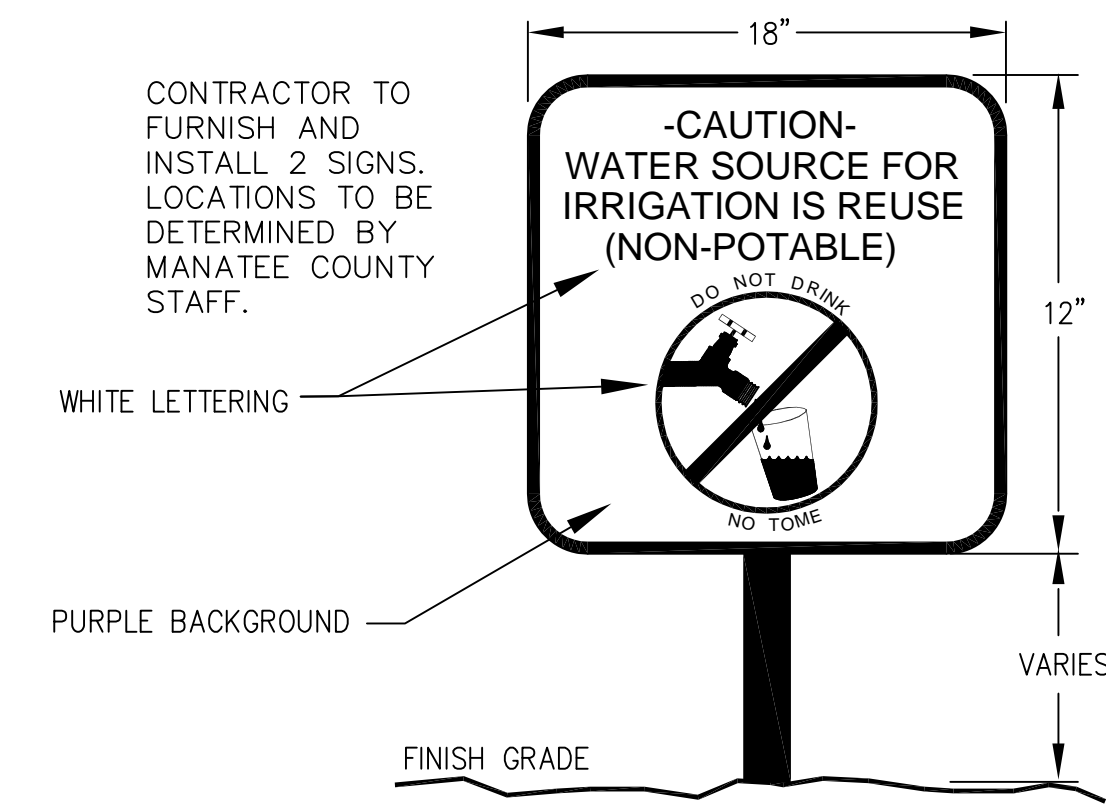
NOTES:

1. FOR EASE OF INSTALLATION INTO A CONTROLLER WITH MORE THAN 24 STATIONS, INSTALL A JUNCTION BOX AT THE BASE OF CONTROLLER AND TRANSITION LARGER VALVE AND COMMON WIRES FROM FIELD TO 18 AWG MULTI CONDUCTOR WIRE TO BE USED IN CONTROLLER.
2. USE STEEL CONDUIT FOR ABOVE GRADE AND SCH 40 PVC CONDUIT FOR BELOW GRADE CONDITIONS.
3. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.
4. MULTI-VALVE CAPACITY: MAXIMUM (5) 24 VAC 7VA SOLENOID VALVES MAY RUN SIMULTANEOUSLY INCLUDING A MASTER VALVE, MAXIMUM (2) SOLENOID VALVES PER STATION.



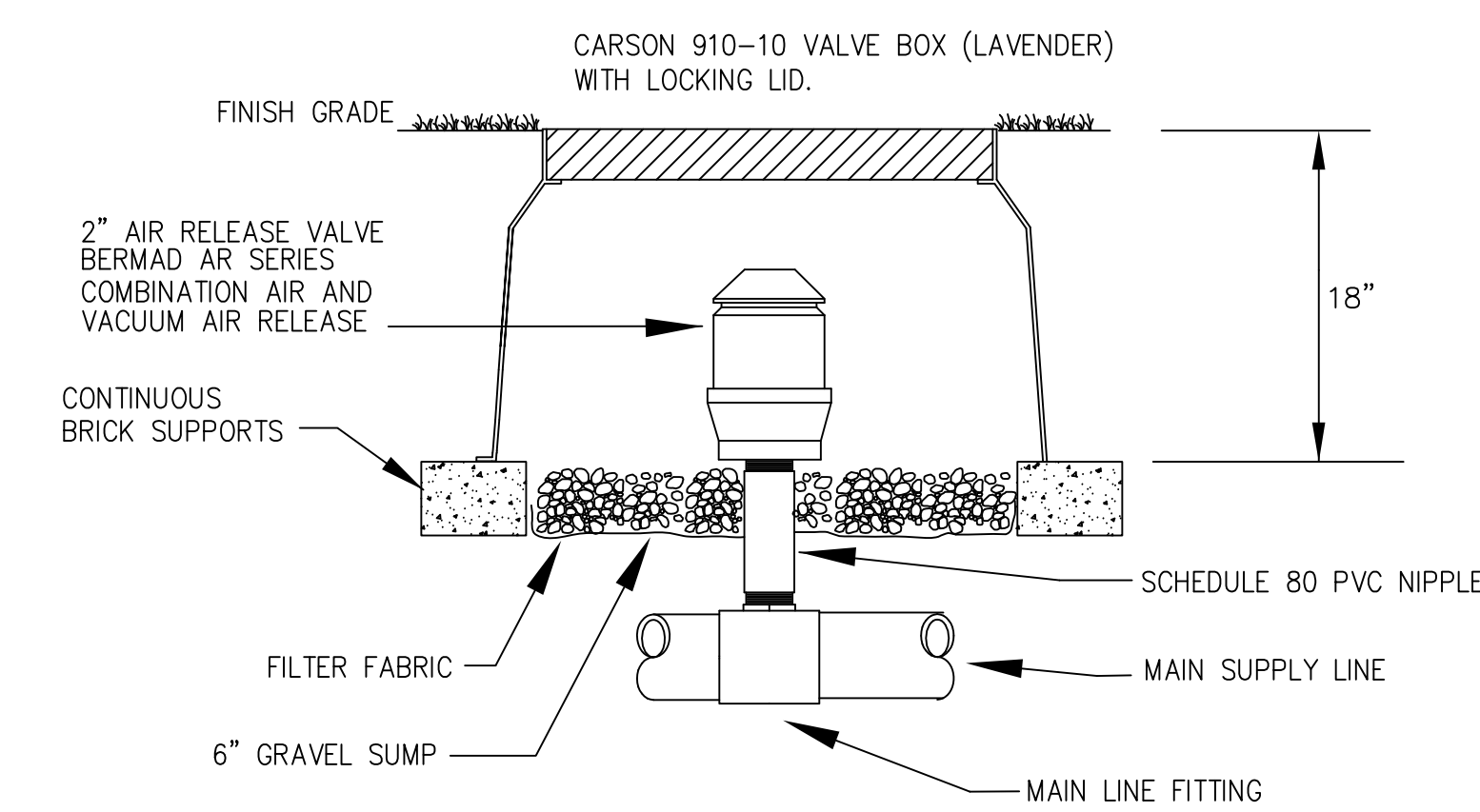
**SLEEVE DETAIL**

NTS



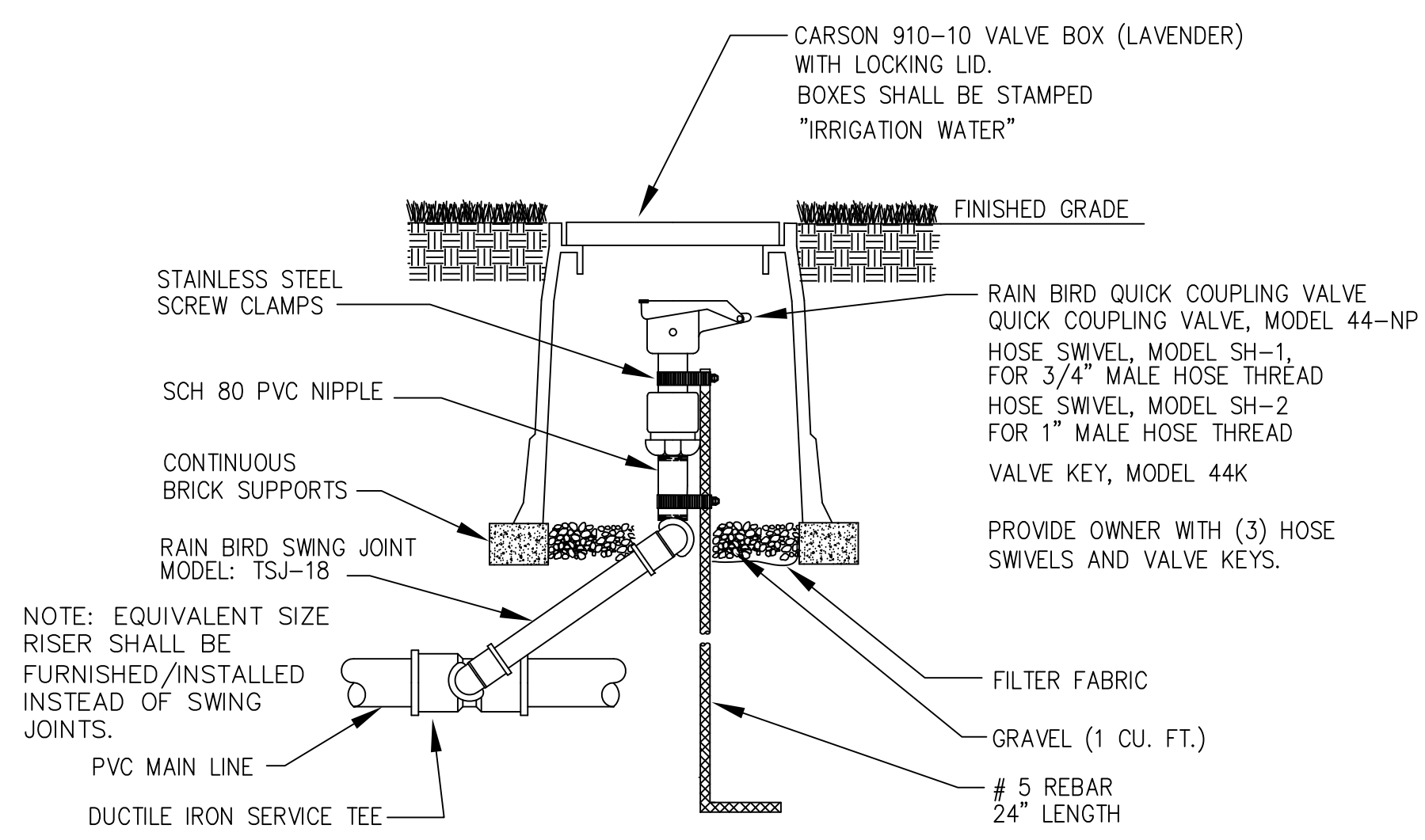
**REUSE WATER SIGN**

NTS



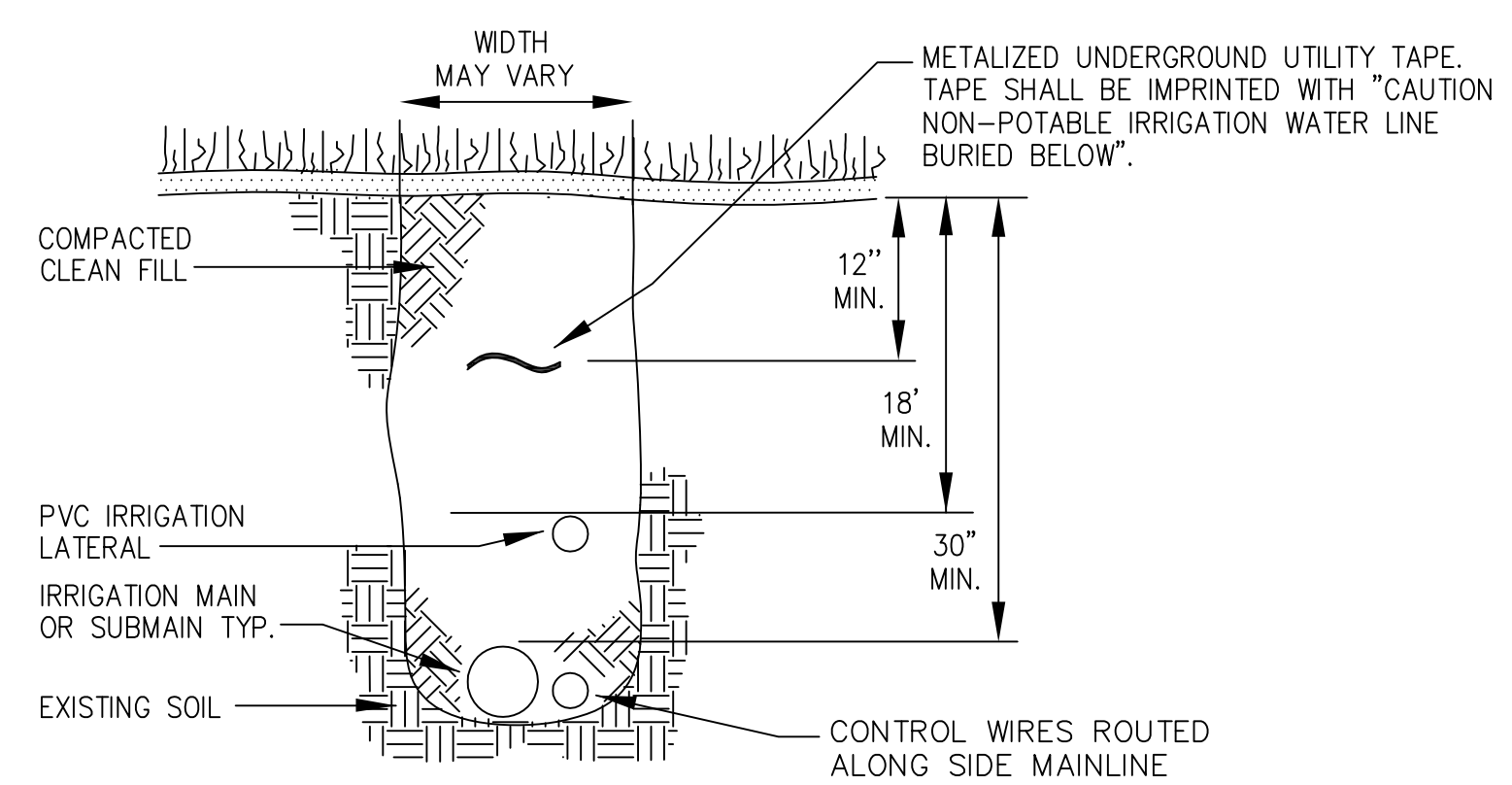
**BERMAD AIR RELEASE VALVE**

NTS



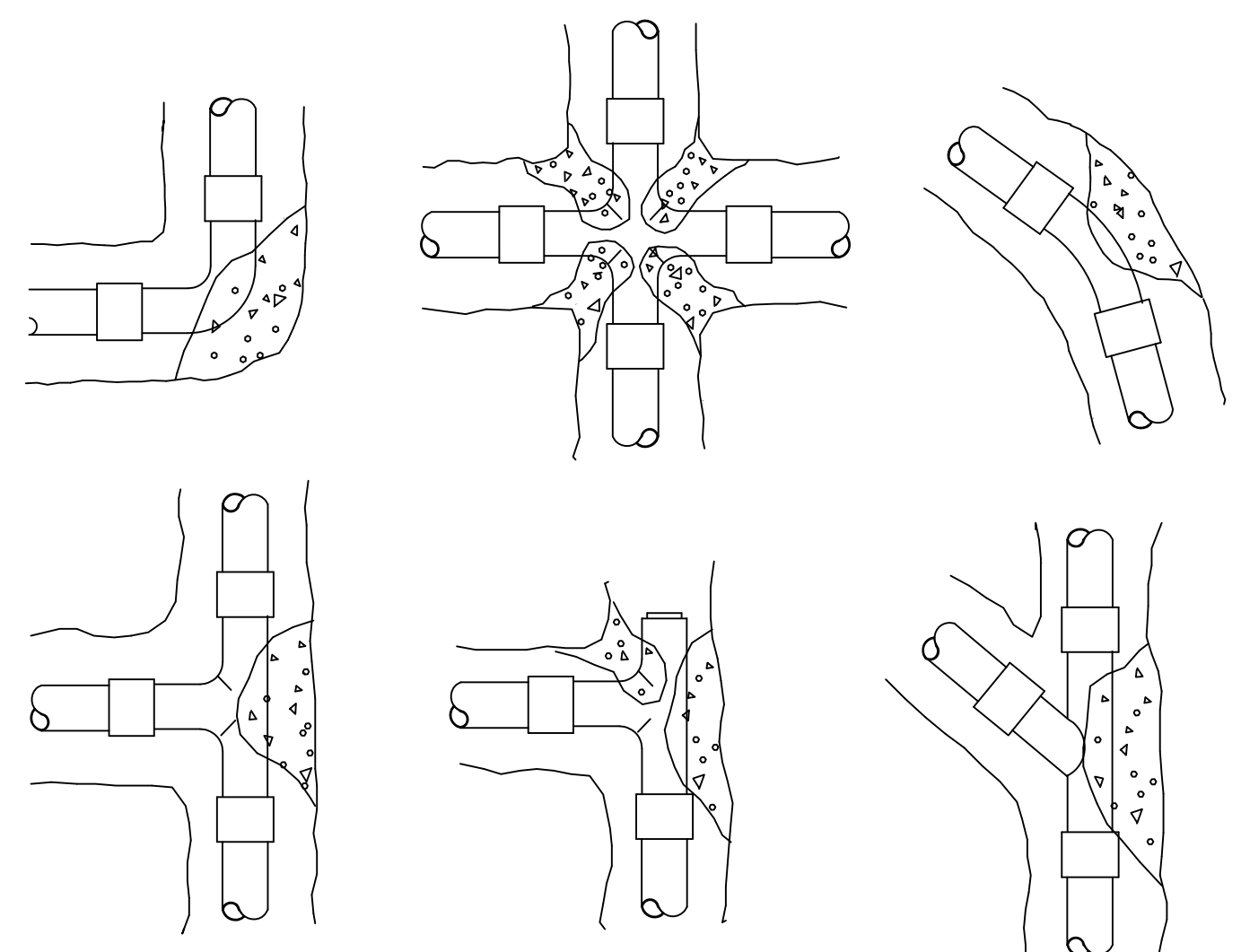
**RAIN BIRD QUICK COUPLING VALVE**

NTS



**TRENCHING DETAIL**

NTS



**INSTALLATION NOTES**

1. 3000 PSI CONCRETE OR BETTER IS TO BE USED FOR THRUST BLOCKS.
2. FOR 45/90° FITTINGS, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED.
3. FOR 22 1/2° FITTINGS, MINIMUM OF 0.5 CUBIC FEET OF CONCRETE TO BE USED.
4. FOR TEES, MINIMUM OF 2 CUBIC FEET OF CONCRETE TO BE USED.

THRUST BLOCKS REQUIRED FOR IRRIGATION MAINLINE 2 1/2" AND LARGER.

**THRUST BLOCK REINFORCEMENT**

NTS

Revision	By	Appd.	MM.DD.YY	
3. REVISE SWING JOINT NOTE TO REQUIRE RISER	DJB	ASM	06.24.13	
2. 100% PLAN SET	ASM	SAB	02.22.13	
1. 90% PLAN SET	ASM	SAB	02.13.13	
Issued	By	Appd.	MM.DD.YY	
File Name:	ASM	SAB	12.04.12	
	Dwn.	Chkd.	Dsgn.	MM.DD.YY

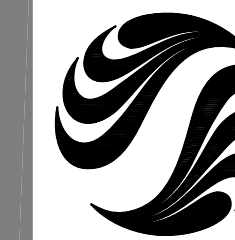
Client/Project  
**Manatee County Board of County Commissioners**  
**Blackstone Park Expansion**  
City of Palmetto, Florida

Title  
**LANDSCAPE IRRIGATION DETAILS**

Project No. 215611237	Scale 15 30 45 75
Drawing No.	Sheet of Revision

LI-502 of 0

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2013/05/24 3:24 PM By: Board, Don



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**Consultants**

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**Legend**

**Notes**

Revision	By	Appd.	MM.DD.YY
2. 100% PLAN SET	ASM	SAB	02.22.13
1. 90% PLAN SET	ASM	SAB	02.13.13
<b>Issued</b>	By	Appd.	MM.DD.YY
File Name:	ASM	SAB	12.04.12
	Dwn.	Chkd.	Dsgn.
			MM.DD.YY

SCOTT A. BUTTAR, L.A.  
FLORIDA LICENSE NO. 0601795

**Client/Project**

Manatee County Board of County Commissioners

**Blackstone Park Expansion**

City of Palmetto, Florida

**Title**

LANDSCAPE  
IRRIGATION NOTES

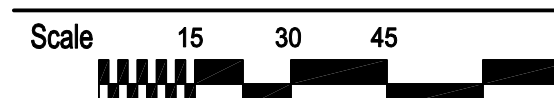
**Project No.**

215611237

**Drawing No.**

LI-601

**Scale**



**Sheet**

of

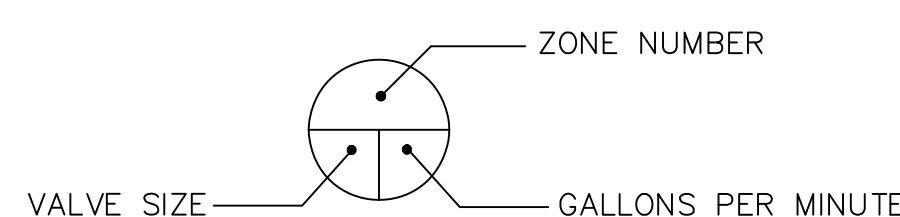
**Revision**

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**CONTROLLER SCHEDULE**

ZONE	GPM	VALVE SIZE	TYPE
1	23.1	1 1/2"	ROTOR
2	30.1	1 1/2"	SPRAY PLANTS
3	66.1	2"	SPRAY TURF
4	78.1	2"	SPRAY TURF
5	75.9	2"	ROTOR PLANTS
6	57.1	2"	SPRAY PLANTS
7	58.8	2"	ROTOR
8	56.3	2"	SPRAY TURF
9	72.2	2"	SPRAY TURF
10	53.7	2"	SPRAY TURF
11	67.5	2"	ROTOR
12	31.6	1 1/2"	ROTOR
13	52.5	2"	ROTOR
14	49.2	2"	SPRAY TURF
15	68.9	2"	SPRAY PLANTS
16	44.6	1 1/2"	SPRAY PLANTS
17	43.7	1 1/2"	ROTOR
18	64.2	2"	SPRAY PLANTS
F1-1	75.5	2"	FIELD 1 ROTOR
F1-2	54.0	2"	FIELD 1 ROTOR
F1-3	56.5	2"	FIELD 1 ROTOR
F1-4	75.5	2"	FIELD 1 ROTOR
F1-5	10.0	1"	FIELD 1 ROTOR
F1-6	17.5	1"	FIELD 1 ROTOR
F2-1	75.5	2"	FIELD 2 ROTOR
F2-2	54.0	2"	FIELD 2 ROTOR
F2-3	56.5	2"	FIELD 2 ROTOR
F2-4	75.5	2"	FIELD 2 ROTOR
F2-5	10.0	1"	FIELD 2 ROTOR
F2-6	17.5	1"	FIELD 2 ROTOR
F3-1	75.5	2"	FIELD 3 ROTOR
F3-2	54.0	2"	FIELD 3 ROTOR
F3-3	56.5	2"	FIELD 3 ROTOR
F3-4	75.5	2"	FIELD 3 ROTOR
F3-5	10.0	1"	FIELD 3 ROTOR
F3-6	17.5	1"	FIELD 3 ROTOR

IRRIGATION DESIGN BASE: 180 GPM AT 60 PSI AT POINT OF CONNECTION.  
CONTRACTOR HAS OPTION OF PROGRAMMING CONTROLLER TO ALLOW TWO OR MORE ZONES TO RUN SIMULTANEOUSLY. DO NOT EXCEED 180 GPM DESIGN BASE.  
\*NOTE: AN ADDITIONAL MODULE (4, 8, OR 12 STATION) CAN BE ADDED FOR FUTURE ZONES.



**IRRIGATION NOTES**

- THE HEAD LAYOUT HAS BEEN DESIGNED TO PROVIDE 100% COVERAGE. ANY CHANGES MADE IN THE HEAD LAYOUT DUE TO FIELD CONDITIONS SHALL BE IN ACCORDANCE WITH THESE STANDARDS.
- SET SPRAY HEADS 3" AND ROTORS 6" IN FROM BACK OF CURB OR 12" IF PAVEMENT HAS NO CURB.
- VERIFY LOCATIONS OF ALL UNDERGROUND UTILITIES PRIOR TO INSTALLATION OF IRRIGATION SYSTEM. MAINLINE SHALL NOT BE LOCATED WITHOUT PRIOR APPROVAL OF THE PROJECT MANAGER AND THE LANDSCAPE ARCHITECT. ALL UTILITIES AND STRUCTURES MAY NOT BE SHOWN ON THESE PLANS—CONTRACTOR SHALL VERIFY.
- ALL PRESSURE MAINLINES UNDER ASPHALT PAVEMENT SHALL BE WITHIN SLEEVES AS NOTED. IRRIGATION COMMUNICATION CABLE SHALL HAVE ITS OWN SEPARATE SLEEVE. LATERAL LINES SHALL BE CONTAINED WITHIN THEIR OWN SLEEVE WHERE SHOWN ON THE PLAN.
- ALL SLEEVES UTILIZED BY THE IRRIGATION CONTRACTOR, WHETHER INSTALLED BY HIM OR NOT, SHALL BE LOCATED ON THE "AS-BUILT" DRAWINGS. THE DEPTH BELOW FINISH GRADE, TO THE NEAREST FOOT OF EACH END OF EACH SLEEVE SHALL BE NOTED AT EACH SLEEVE LOCATION ON THE "AS-BUILT" DRAWINGS.
- MAINLINE AND VALVES ARE SHOWN IN SCHEMATIC FORM. LOCATE AS NOTED ON PLANS.
- LOCATE ALL VALVES A MINIMUM OF 24" FROM BACK OF CURB OR EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.
- ALL UNSIZED PIPE SHALL BE 3/4" UNLESS OTHERWISE NOTED.
- ALL VALVES SHALL BE INSTALLED IN A CARSON LAVENDER COLOR VALVE BOX WITH LOCKING LID AND STAMPED "IRRIGATION WATER". SEE DETAILS FOR MODEL NUMBERS.
- IRRIGATION CONTRACTOR SHALL SECURE ANY AND ALL NECESSARY PERMITS FOR THE WORK PRIOR TO COMMENCEMENT OF HIS OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR. WORK IN THE R.O.W. SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF LOCAL AND/OR STATE HIGHWAY JURISDICTION.
- VERIFY POINT OF CONNECTION AND IRRIGATION CONTROLLER LOCATION AT PROJECT SITE WITH OWNER.
- ELECTRIC SERVICE TO THE IRRIGATION CONTROLLER SHALL BE PROVIDED BY THE GENERAL CONTRACTOR.
- ALL 24 VAC WIRING SHALL BE OF DIRECT BURIAL COPPER WIRE AS FOLLOWS:  
CONTROL WIRES - #14  
COMMON WIRES - #12
- DURING INSTALLATION AND UPON COMPLETION OF THE IRRIGATION SYSTEM, VALVES SHALL BE WIRED TO THE CONTROLLER AS PER THE IRRIGATION ZONE NUMBERS.
- ALL CONNECTIONS TO THE IRRIGATION MAINLINE SHALL BE ACCOMPLISHED USING HARCO DUCTILE IRON SERVICE TEES. ALL CHANGES IN DIRECTION OF THE MAINLINE SHALL BE ACCOMPLISHED USING HARCO DUCTILE IRON 45 DEGREE ELBOWS.
- CONTRACTOR SHALL INSTALL METALIZED IDENTIFICATION TAPE ABOVE ALL IRRIGATION MAINLINES AS SHOWN ON TRENCHING DETAIL.
- INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
- IRRIGATION COMPONENTS SHALL BE DESIGNATED FOR RECLAIMED WATER APPLICATION AS REQUIRED PER LOCAL CODE.
- PRODUCTS SHALL BE AS SPECIFIED.

**IRRIGATION LEGEND**

TORO MPR PLUS SPRAY NOZZLES  
570Z-6P TURF AREAS  
570Z-12P TURF AREAS

- 15-Q 27' TRAJECTORY
- 15-T 27' TRAJECTORY
- 15-H 27' TRAJECTORY
- 15-TQ 27' TRAJECTORY
- 15-F 27' TRAJECTORY
- 12-Q 23' TRAJECTORY
- 12-T 23' TRAJECTORY
- 12-H 23' TRAJECTORY
- 12-TQ 23' TRAJECTORY
- 12-F 23' TRAJECTORY
- 10-Q 12' TRAJECTORY
- 10-T 12' TRAJECTORY
- 10-H 12' TRAJECTORY
- 10-F 12' TRAJECTORY
- 8-Q 5' TRAJECTORY
- 8-H 5' TRAJECTORY
- 4-EST
- 4-SST
- 4-CST
- TORO FB-25-PC BUBBLER, (ROTOR ZONES)
- TORO FB-50-PC BUBBLER, (SPRAY ZONES)
- HUNTER PGP ULTRA ROTOR PGP-04-2.0 NOZZLE, 90° ADJUSTABLE
- HUNTER PGP ULTRA ROTOR PGP-04-3.0 NOZZLE, 180° ADJUSTABLE
- HUNTER PGP ULTRA ROTOR PGP-04-5.0 NOZZLE, 270° ADJUSTABLE
- HUNTER PGP ULTRA ROTOR PGP-04-6.0 NOZZLE, 360° ADJUSTABLE
- HUNTER PGP ULTRA ROTOR PGP-04-2.0 LA NOZZLE, 90° ADJUSTABLE
- HUNTER PGP ULTRA ROTOR PGP-04-2.5 LA NOZZLE, 180° ADJUSTABLE
- HUNTER PGP ULTRA ROTOR PGP-04-3.5 LA NOZZLE, 270° ADJUSTABLE
- HUNTER PGP ULTRA ROTOR PGP-04-4.5 LA NOZZLE, 360° ADJUSTABLE
- HUNTER PGP ULTRA ROTOR PGP-12-2.0 LA NOZZLE, 90° ADJUSTABLE
- HUNTER PGP ULTRA ROTOR PGP-12-2.5 LA NOZZLE, 180° ADJUSTABLE
- HUNTER PGP ULTRA ROTOR PGP-12-4.5 LA NOZZLE, 360° ADJUSTABLE
- HUNTER 1-20 ROTOR 1-20-04-SS-2.5 NOZZLE, 180° ADJUSTABLE
- HUNTER 1-40 ROTOR 1-40-04-SS-40 NOZZLE, 90° ADJUSTABLE
- HUNTER 1-40 ROTOR 1-40-04-SS-43 NOZZLE, 180° ADJUSTABLE
- HUNTER 1-40 ROTOR 1-40-04-SS-43 NOZZLE, 360° ADJUSTABLE
- RAIN BIRD ESP-LXME WALL MOUNT CONTROLLER. SEE DETAIL FOR MODEL COMPONENTS, PROVIDE CONNECTION & MATERIALS NECESSARY FOR CONTROLLER INSTALLATION AND OPERATION.
- HUNTER MINI-CLIK RAIN SENSOR
- IRRITROL 100-S SERIES ELECTRIC CONTROL VALVE
- BERMAD AR SERIES COMBINATION AIR AND VACUUM RELEASE VALVE
- RAIN BIRD MODEL 44-NP 1" QUICK COUPLING VALVE
- HARCO RESTRAINT GATE VALVE, INSTALLED PER LINE SIZE AND IN 12" VALVE BOX
- CLASS 200 PVC GASKETED MAINLINE W/DUCTILE IRON FITTINGS, PANTONE PURPLE 522C
- CLASS 200 PVC LATERAL LINE, SOLVENT WELD, PANTONE PURPLE 522C
- SCHEDULE 40 PVC SLEEVE (SEE PLAN FOR SLEEVE SIZE)
- 8" MAINLINE SLEEVE
- 6" MAINLINE SLEEVE
- 6" LATERAL SLEEVE
- 4" LATERAL SLEEVE
- 2" LATERAL SLEEVE
- 4" CONTROL WIRE SLEEVE