# BEXLEY

# PARCEL 4 PHASE 1: PARK AREAS

# LANDSCAPE & IRRIGATION PLANS

PASCO COUNTY, FL

# PROJECT SITE VICINITY MAP



# **PROJECT SHEET KEY**













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			PLANT MATERIAL	SCHEDULE			
ŢΥ	CODE	BOTANICAL NAME	COMMON NAME	SPECIFICATION	TOTAL CAL. INCHES	NATIVE	DROUGHT TOLERANCE
REE	/ PALMS					•	•
12	ARS	ACER RUBRUM 'SUMMER RED'	STEWARTS RED MAPLE SUMMER RED*	12'-14' HT. X 6' SPD., 3" CAL.	36" CAL.		
13	CV	CALLISTEMON VIMINALIS	WEEPING BOTTLEBRUSH	12' HT. x 5-6' SPD., 3" CAL.	39" CAL.		
50	ICC	ILEX CASSINE	DAHOON HOLLY	10' HT. X 4-5' SPD., 2" CAL.	100" CAL.		
28	LIM	LAGERSTROEMIA INDICA "MUSKOGEE"	CRAPE MYRTLE "LAVENDER"	12-14' HT. x 5-6' SPR., MULTI-TRUNK	N/A		
53	PE	PINUS ELLIOTII "DENSA"	SLASH PINE	12-14' HT. x 6' SPR., 3" CAL.	162" CAL.		
				, , , , , , , , , , , , , , , , , , ,			
1	PE8	PINUS ELLIOTII "DENSA"	SLASH PINE	18-20' HT. x 10' SPD., 8" CAL,, 6' CLEAR			
19	PO	PLATANUS OCCIDENTALIS	STEWARTS AMERICAN SYCAMORE*	12'-14' HT. X 6' SPD., 3" CAL.	57" CAL.		
15	QV8	QUERCUS VIRGINIANA	STEWARTS LIVE OAK	20-22' HT. x 12' SPD., 8" CAL,	120" CAL.		
59	QV10	QUERCUS VIRGINIANA	STEWARTS LIVE OAK	22'-24' HT. x 12' SPD., 10" CAL,	590" CAL.		
10	SB	SALIX BABYLONICA	WEEPING WILLOW	12-14' HT. x 5'-6' SPD., 2.5" CAL.	20" CAL.		
24	SP	SABAL PALMETTO	CABBAGE PALM	SEE PLAN FOR CLEAR TRUNK HEIGHTS	N/A		
79	TD	TAXODIUM DISTICHUM	STEWARTS BALD CYPRESS*	10-12' HT. x 4' SPD., 3" CAL.	237" CAL.		
=TR	EES TO I	BE PLANTED BY LANDSCAPE CONTR	ACTOR				
				TOTAL CAL. INCHES	866" CAL.		
SHRU	JBS/ GRO	DUNDCOVERS		, , , , , , , , , , , , , , , , , , , ,			
100	Α	ANNUALS	ANNUALS	1 GAL., FULL			
				<u> </u>			
320	AGA	AGAPANTHUS AFRICANUS	LILY OF THE NILE	1 GAL. FULL			
12	BM	BUXUS MICROPHYLLA JAPONICA	JAPANESE BOXWOOD	3 GAL., 18-20" HT., FULL			
85	DGM	DURANTA ERECTA 'GOLD MOUND'	GOLD MOUND DURANTA	3 GAL. 12-14" HT. X 12-14" SPD.			
135	DTV	DIANELLA TASMANICA	BLUEBERRY FLAX LILY	3 GAL., 14-16" HT. FULL			
25	GG	GALPHIMIA GRACILIS	THRYALLIS	3 GAL., 24" HT.			
155	HPD	HAMELLIA NODOSA	DWARF FIREBUSH	3 GAL., 16"-18" HT. X 14" SPD.			
100	IVS	ILEX VOMITORIA 'STOKES DWARF'	DWARF YAUPON HOLLY	3 GAL., 14-16" SPD.			
90	JM	JASMINUM MULTIFLORUM	DOWNY JASMINE	3 GAL., 16" HT. x 18" SPR., DENSE			
570	JP	JUNIPERUS PARSONII	PARSON'S JUNIPER	1 GAL., 12" SPR.			
360	MUH	MUHLENBERGIA CAPILLARIS	MUHLY GRASS	3 GAL., 18-24" SPD.			
				<u> </u>			
405	NF	NEPHROLEPIS FALCATA	MACHO FERN	3 GAL., 24" HT. x 12" SPD.			
235	PEN	PENNISETUM SETACEUM 'ALBA'	FOUNTAIN GRASS "WHITE"	3 GAL., 24-30" HT., FULL			
105	PLC	PLUMBAGO 'IMPERIAL BLUE'	IMPERIAL BLUE PLUMBAGO	3 GAL., 22" HT. X 24" SPD.			
195	PQ	PASPALUM QUADRIFARIUM	EVERGREEN PASPALUM	3 GAL. 20-24" HT. FULL			
330	RI	RAPHIOLEPIS INDICA "WHITE"	DWARF INDIAN HAWTHORN	3 GAL., 16" HT. x 18" SPR., DENSE			
165	SAV	SCHEFFLERA ARBORICOLA 'TRINETTE'	VARIEGATED SCHEFFLERA	3 GAL., 26" HT. x 18" SPD., FULL			
105	SAR	SCHEFFLERA ARBORICOLA	DWARF SCHEFFLERA	3 GAL., 26" HT. x 18" SPD., FULL			
72	SES	SERENOA REPENS	SLIVER SAW PALMETTO	3 GAL., 16" HT. x 18" SPR., DENSE			
125	SPB	SPARTINA BAKERI	SAND CORDGRASS	3 GAL., 18" HT. x 12" SPD.			
880	TJV	TRACHELOSPERMUM JAS. VARIEGATED	VARIEGATED CONFEDERATE JASMINE	1 GAL., 10-12" SPD.			
	1				1		

# **GENERAL NOTES:**

- ALL BALD CYPRESS, LIVE OAKS, SYCAMORES, AND SUMMER MAPLES ARE TO BE FROM STEWARTS TREE UNLESS NOTED OTHERWISE. TREES HAVE BEEN PRE-PURCHASED BY THE OWNER FOR THE PROJECT. ANYTHING LARGER THAT 5" WILL BE PLANTED BY STEWARTS.
- NO STREET TREES ARE TO BE PLACED WITHIN 10' OF STREET LIGHTS.
- LANDSCAPE CONTRACTOR TO VERIFY ALL SOD WORK LIMITS AROUND STORMWATER PONDS PRIOR TO BIDDING. POND BANKS WILL HAVE BEEN STABILIZED WITH SOD BY THE SITE CONTRACTOR PRIOR TO CONSTRUCTION.
- SITE LANDSCAPE WILL BE IRRIGATED WITH RECLAIMED WATER WITH 100% **COVERAGE**

# PASCO COUNTY NOTES:

- AVOID EASEMENTS: TREES SHALL NOT BE PLANTED WITHIN ANY EASEMENT SO AS TO INTERFERE WITH THE USE OF THAT EASEMENT, NOR UNDER ANY PRESENT OR PLANNED OVERHEAD UTILITY, NOR IN ANY RIGHTS-OF-WAY WITHOUT COUNTY APPROVAL THROUGH THE ASSOCIATED REVIEW PROCESS
- HEIGHT: ALL HEIGHT REQUIREMENTS SHALL BE BASED ON THE FINISHED GRADE OF THE LANDSCAPED AREA AND MEASURED AT THE MAIN STEM.
- TO REDUCE SOIL EROSION AND VISUALLY SOFTEN THE EDGE OF WATER MANAGEMENT AREAS, TREES SHALL BE PLANTED ALONG THE BANKS AT A MINIMUM RATE OF ONE (1) TREE PER 50 LINEAR FEET OF POND BANK, (MAY BE CLUSTERED OR GROUPED).

FENCING MATERIAL SCHEDULE					
QTY.	SYM.	TYPE	SPECIFICATION		
1,052 L.F.		DOG PARK	4' HT. VINYL CHAIN LINK FENCE COLOR: BLACK		
317 L.F.		SOCCER FENCE #1	4' HT. VINYL CHAIN LINK FENCE COLOR: BLACK		
181 L.F.		SOCCER FENCE #2	6' HT. VINYL CHAIN LINK FENCE COLOR: BLACK		
1,550 L.F.	TOTAL L.F				
4		PEDESTRIAN GATE	4' HT. VINYL CHAIN LINK FENCE , COLOR BLACK, ACCESS CONTROLS T.B.D. BY OWNER		
2		MAINTENANCE GATE	4' HT. VINYL CHAIN LINK FENCE , COLOR BLACK, 6' WIDE DBL. GATES, WITH LOCKABLE LATCH		
NOTES:					

 CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL FENCING TYPES AND GATES CONTRACTOR TO COORDINATE WITH OWNER FOR ALL ACCESS REQUIREMENTS AT GATES AND PEDESTRIAN GATES

MASTER LIGHTING SCHEDULE					
QTY.	SYM.	TYPE	SPECIFICATION		
2	•	AREA LIGHT	LIGHT 1. LITHONIA DSX2-100C-1000 40K-T5W-208-RPA-DWHXD, CONTACT KRISTEN CONROY FOR ORDERING QUESTIONS: 813-777-1304		
2	9	GFIC OUTLET	STANDARD OUTLET WITH WEATHERPROOF COVER RAISED A MIN. 6" ABOVE GRADE		
3	<b>■</b>	TREE UP-LIGHT	LUMENPULSE: LBS-120-35K-F-BK-DIM-SK, CONTACT ENIVSION LIGHTING, KRISTEN CONROY 813-777-1304		
3	•	SIGN LETTER SPOT-LIGHT	LUMENPULSE: LBM-120-35K-FL-BK-DIM-SK, CONTACT ENIVSION LIGHTING, KRISTEN CONROY 813-777-1304, INSTALL WITH ADJUSTABLE HT. STAKE TO ALLOW FOR LANDSCAPE GROWTH		
4		3' LINEAR WALL LIGHT	LUMENPULSE: LOG-HO-120-36-35K-30X60-WAM6-SI-DIM, CONTACT ENIVSION LIGHTING, KRISTEN CONROY 813-777-1304		
2		4' LINEAR WALL LIGHT	LUMENPULSE: LOG-HO-120-48-35K-30X60-WAM6-SI-DIM, CONTACT ENIVSION LIGHTING, KRISTEN CONROY 813-777-1304		

-ALL PROPOSED LIGHTING LOCATIONS ARE SCHEMATIC. LANDSCAPE ARCH. TO APPROVE ALL LIGHT LOCATIONS PRIOR TO INSTALLATION. NO LIGHTS SHALL BE INSTALLED WITHOUT APPROVAL. ANY LIGHTS INSTALLED WITHOUT APPROVAL WILL BE REQUIRED TO BE MOVED AT THE CONTRACTORS COST IF CONFLICTS ARE PRESENT IN THE INSTALLED LOCATION. -PROVIDE MINIMUM PHOTOCELL ON CONTROLS AND TIMER OFF WITH A MANUAL OVERRIDE SWITCH.

ALL TRANSFORMERS TO BE MAGNETIC. -CONTRACTOR TO VERIFY ELECTRICAL SOURCE LOCATION -CONTRACTOR TO COMPLY WITH ALL STATE AND LOCAL ELECTRICAL BUILDING CODES

TREE REMOVAL TABLE NO TREES ARE BEING REMOVED WITHIN THE PROJECT

BOUNDARY. NO REPLACEMENTS ARE NEEDED.

LANDSCAPE MATERIAL QUANTITIES		
MINI PINE BARK NUGGETS	290 C.Y.	
ST. AUGUSTINE FLORATAM (SOD)	20,000 S.F.	
BAHIA SOD (SOD 2)	172,000 S.F.	
CELEBRATION BERMUDA SOD- (SOD 3)	76,400 S.F.	
*QUANTITIES ARE PROVIDED AS A COURTESY, CONTRACTOR TO VERIFY ALL QUANTITIES. TREES NOT INCLUDED IN PLANT BEDS TO HAVE A MIN. 4' DIA. MULCH RING		

MASTER PAVING SCHEDULE				
TYPE	QTY.	SPECIFICATION		
SIDEWALK	26,000 S.F.	STANDARD GREY CONCRETE WITH MEDIUM BROOM FINISH		
DOG PARK PAVERS	465 S.F.	TREMRON: 4"x8" PAVERS, COLOR: SAND DUNE,WITH 4"x8" SOLDIER COURSE BORDER, COLOR: RIVERWOOD CONTACT JO ANN THOMPSON FOR ORDERING INFORMATION 813-299-3088		
WALKING TRAIL	10,300 S.F.	CRUSHED CONCRETE TRAIL WITH GEOTEXTILE FABRIC UNDERLAYMENT. CONTRACTOR TO PROVIDE CRUSHED CONCRETE SAMPLE PRIOR TO CONSTRUCTION. TRAIL TO HAVE METAL EDGING ON BOTH SIDES, SEE DETAIL		
CONCRETE STEPS AT PARK 6	12 L.F.	STANDARD GREY CONCRETE WITH SPONGE FLOAT FINISH		
CONCRETE PLAYING SURFACE PARK 5	1045 S.F.	STANDARD GREY CONCRETE WITH SPONGE FLOAT FINISH		

-ALL CONCRETE IS TO HAVE A MIN. OF 3000 P.S.I.

FOR OWNER/ LA APPROVAL.

-CONTRACTOR TO PROVIDE 5'x5' MOCK-UP OF ALL PAYING TYPES PRIOR TO CONSTRUCTION

1	SITE FURNISHING SCHEDULE					
QTY.	SYM.	TYPE	SPECIFICATION			
6	$\oplus$	TRASH RECEPTACLE	LANDSCAPE FORMS: FGP LITTER RECEPTACLE, IPE WOOD, CONTACT KELLIE MOORE 407-754-6214 FOR ORDERING			
7		BENCH	LANDSCAPE FORMS: FGP BACKED 70" LENGTH, IPE WOOD, CONTACT KELLIE MOORE 407-754-6214 FOR ORDERING			
2		TABLE	VICTOR STANLEY: CP-4 WOOD SLATS, COLOR SILVER POWDERCOAT CONTACT SITE HORIZONS 407-947-6318 FOR ORDERIN			
2		PICNIC TABLE	LANDSCAPE FORMS: MULTIPLICITY TABLE AND BENCHES, MOUNT TO CONCRETE PAD CONTACT KEL MOORE 407-754-6214 FOR ORDERING			
5	(W)	DOG WASTE BAG DISPENSER	SENTRY DOG WASTE SYSTEM, 1800-789-2563 FOR ORDERING			
3	(DF)	DRINKING WATER FOUNTAIN	MOST DEPENDABLE FOUNTAINS: 810 SMSS-01, INSTALL PER MANUFACTURES PEA GRAVEL DRAIN RECOMMENDATIONS. CONTACT: 1-800-552-6331, COLOR T.B.D.			
1	PF	PET WATER FOUNTAIN	MOST DEPENDABLE FOUNTAINS: 350 SMSS, INSTALL PER MANUFACTURES PEA GRAVEL DRAIN RECOMMENDATIONS. CONTACT: 1-800-552-6331, COLOR T.B.D.			
2	N/A	SOCCER GOAL	PATTERSON-WILLIAMS- SOCCER GOAL, 2239-00A, W/ 8347 AUGERS (1 FOR EACH SUPPORT ARM) & 8366 SOCCER NET CONTACT SITE HORIZONS: 407-947-6318			
17	ı	BIKE RACK	SHADOW BIKE RACK- BY MADRAX, SHB-SUN2IG-P, COLOR BRONZE CONTACT: 1-800-448-7931			
1	N/A	DOG PARK PLAY FEATURES	BARK PARK: ROVER JUMP OVER, HOOP JUMP, WEAVE POST, SMALL HOOP JUMP, CONTACT 1-800-458-5872 FOR ORDERIN INFORMATION			
5	FH	DOG PARK FIRE HYDRANTS	SITE CONTRACTOR TO PROVIDE HYDRANTS, CONTRACTOR TO PAINT AND INSTALL HYDRANTS ON SITE			
3	N/A	HAMMOCKS	HATTERAS HAMMOCKS: SPECTRUM CILANTRO, MOUNT TO METAL 4"x4" POST IN THE GROUND, CONTACT 877-601-9967			
1	N/A	BOULDERS	LARGE LIMESTONE BOULDERS AS INDICATED ON THE PLANS, MIN. SIZE TO BE 12"x12"x12", BOULDERS TO BE ROUNDED WITH NO SHARP EDGES			
1	N/A	PARK 5 SHADE SHELTER	SHADE SYSTEMS: 20'x30'x9' T-CANTILEVER SHADE SHELTER, CONTACT: 1-800-609-6066 FOR ORDERING INFORMATION, FABRIC COLOR AND METAL COLOR T.B.D.			
1	N/A	PARK 6 SHADE SHELTER	SHADE SYSTEMS: 14'x25'x9' T-CANTILEVER SHADE SHELTER, CONTACT: 1-800-609-6066 FOR ORDERING INFORMATION, FABRIC COLOR AND METAL COLOR T.B.D.			
1	N/A	PARK 6 SHADE SHELTER #2	SHADE SYSTEMS: 15'x15'x9' T-CANTILEVER SHADE SHELTER, CONTACT: 1-800-609-6066 FOR ORDERING INFORMATION, FABRIC COLOR AND METAL COLOR T.B.D.			
1	N/A	PARK 6 BERM SEATING	TOURNESOL: UCF-96 URBAN COLLECTION BENCH WITH CONCEALED ANCHOR, ACID ETCH, COLOR IVORY, CONTACT SANDY HENDRY 1-510-471-6289			
8		DOG PARK CHAIRS	BREEZESTA: ADIRONDACK COASTAL CHAIR, CONTACT LYNN HAARTMAN: 954-616-5210 FOR ORDERING INFORMATION, COLOR T.B.D.			
1	N/A	OUTDOOR PING PONG	STONE AGE: UPTOWN PING PONG TABLE, CONCRETE COLOR BLUE, NET: WHITE WITH "BEXLEY" CUT OUT CONTACT: 541-671-6318 FOR ORDERING			
1	N/A	OUTDOOR FOOSBALL	STONE AGE: FOOSBALL TABLE, UPPER CONCRETE COLOR: BLUE, BOTTOM LEGS TO BE STANDARD GREY CONTACT: 541-671-6318 FOR ORDERING			
1	N/A	OUTDOOR CORN HOLE	STONE AGE: CORN HOLE PAIR, CONCRETE COLOR: BLUE, BEXLEY LOGO TO BE STAINED ONTO SURFACE, CONTACT: 541-671-6318 FOR ORDERING			
		L	I .			

• SITE FURNISHINGS TO BE DIRECT PURCHASED BY THE OWNER, CONTRACTOR TO INSTALL ALL SITE FURNISHINGS AS INDICATED ON THE PLANS.

QUANTITIES ABOVE INCLUDE ALL SHEETS

н
B" SOLDIER COURSE SON FOR ORDERING
NDERLAYMENT. PRIOR TO TH SIDES, SEE DETAIL
1
1

BALLENGER AND COMPANY 3840 60TH AVE N. PINELLAS PARK | FL 727-620-1082

146 Second St. N. Ste. 302 St. Petersburg, FL 33701 T/ 727.821.5699 CONSULTANTS CIVIL ENGINEER

CLEARVIEW LAND DESIGN

1213 E. 6TH AVE. TAMPA | FL 813-223-3919

IRRIGATION DESIGN

OWNER

NNP-BEXLEY, LLC 777 S. HARBOUR ISLAND BLVD. STE 320 TAMPA | FL 813-620-3555

S PH, BEXL PARC PARK

FL Registration: LC26000471 CONSTRUCTION DOC.

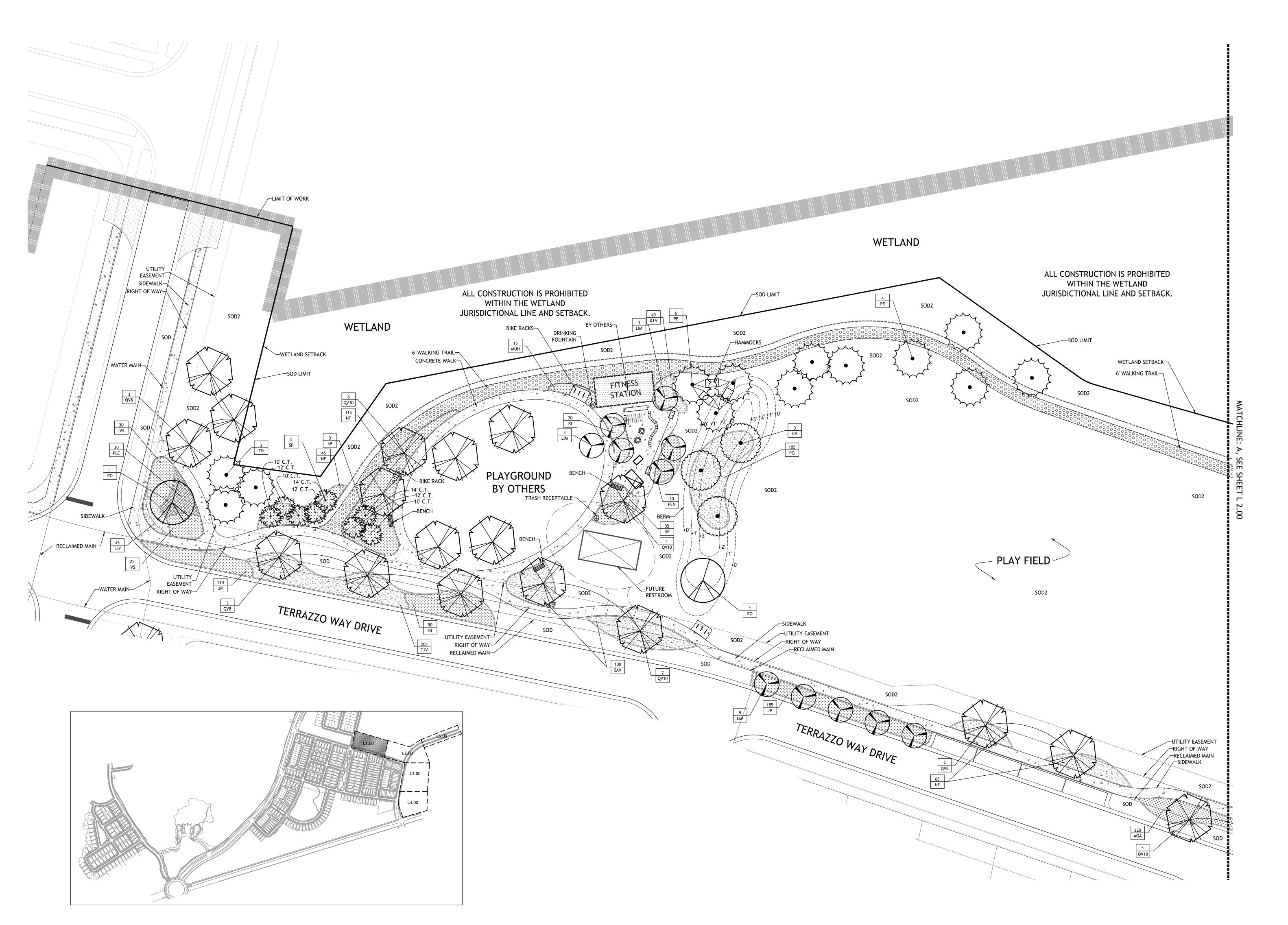
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1 CODE MIN. PERMIT SET 01-14-15 2 CODE MIN. PERMIT SET REV. 04-27-15 REVISIONS

SHEET INFORMATION JOB NUMBER 14008 DRAWN BY GW / JB CHECKED BY HAB / JB

SCALE: N/A







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ISSUE DATE

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3 REVIEW SET 02-01-16
4 BID SET 04-28-16

REVISIONS

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NO. COMMENTS DATE

SHEET INFORMATION

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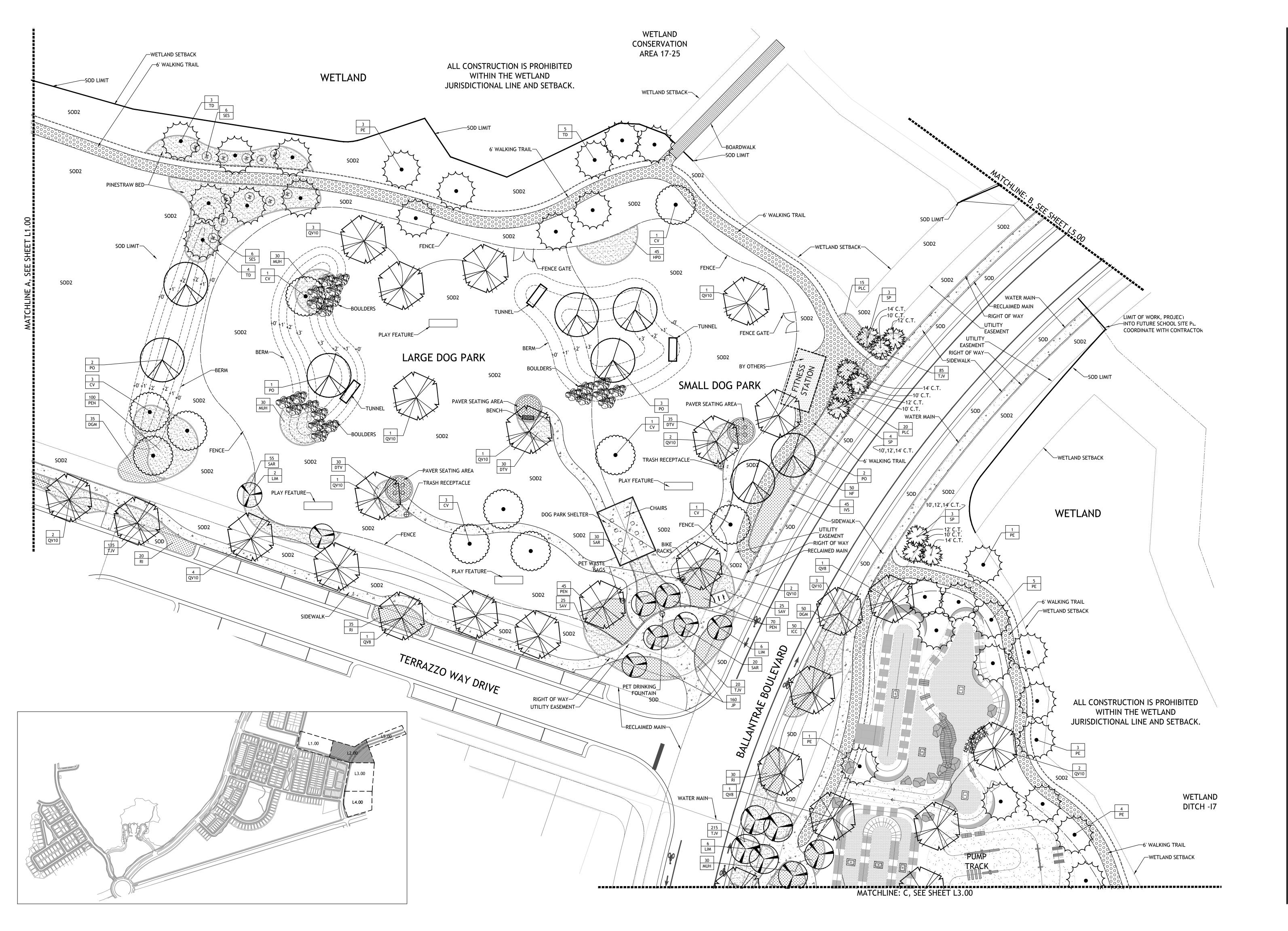
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SCALE: 1"=20'-0"
0 10' 20'

LANDSCAPE DEVELOPMENT

PLAN OO





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BEXLEY PARCEL 4 PHASE PARK AREAS

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04-28-16

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3 REVIEW SET

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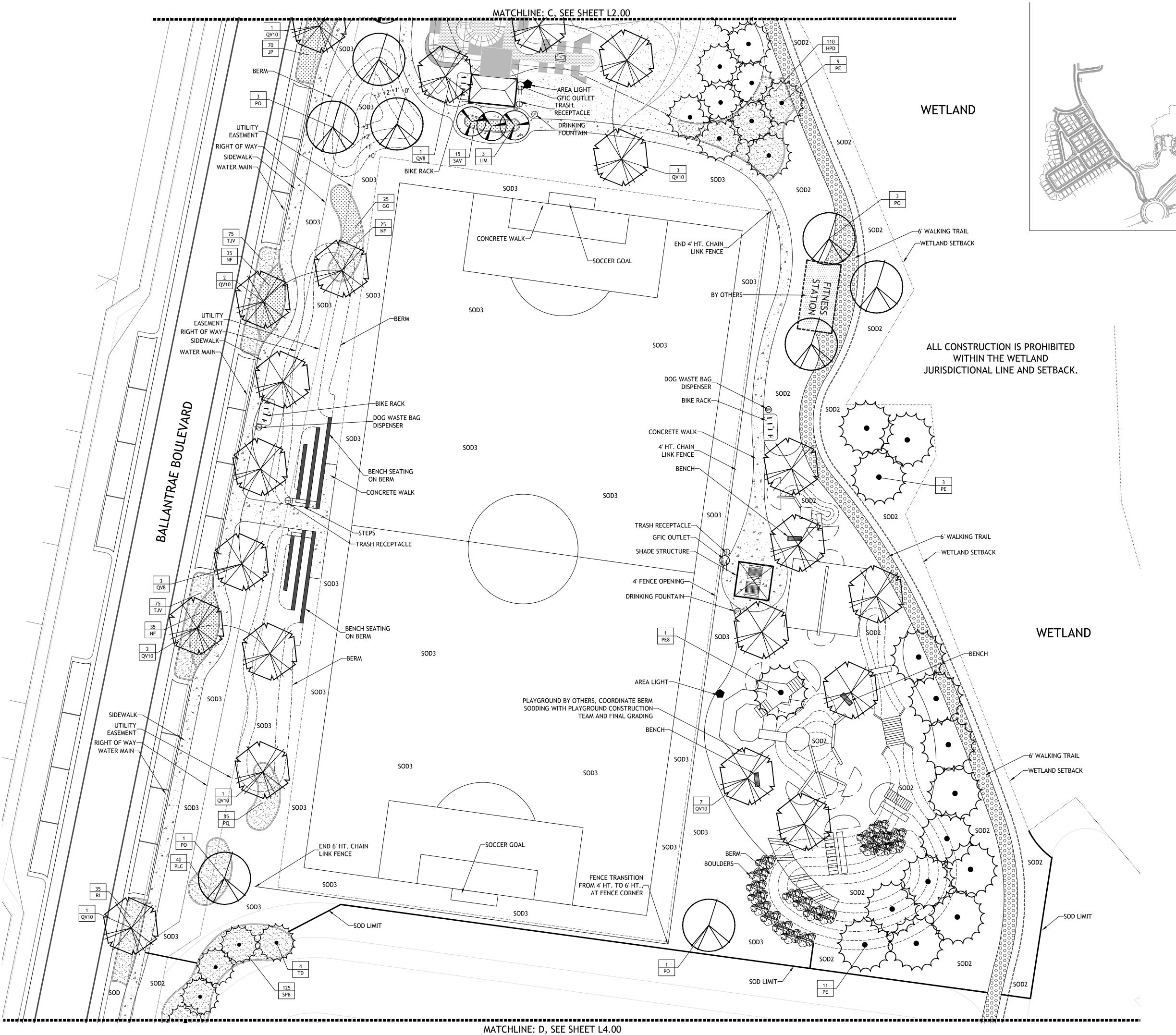
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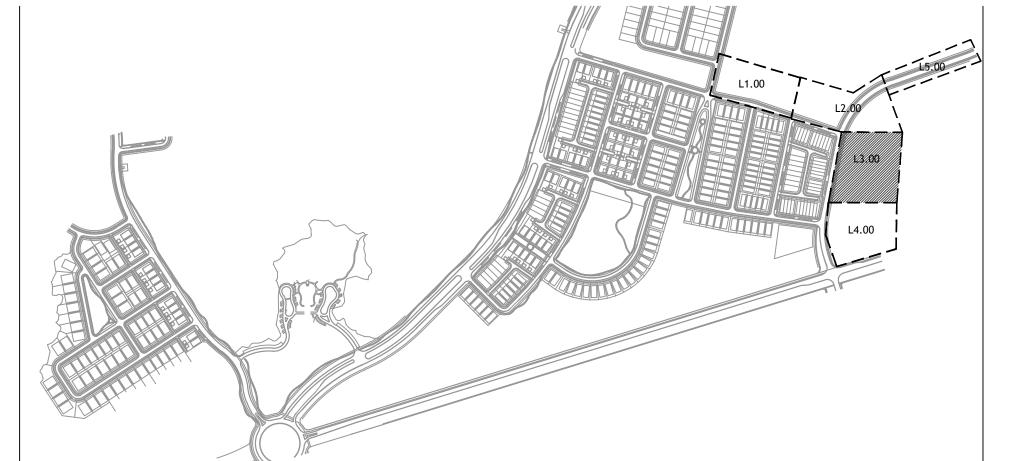
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0 10' 20'

LANDSCAPE DEVELOPMENT PLAN

1 2.00





**BOOTH** DESIGNGROUP

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3 REVIEW SET

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LANDSCAPE DEVELOPMENT



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**PHASE** BEXLEY PARCEL PARK ARI

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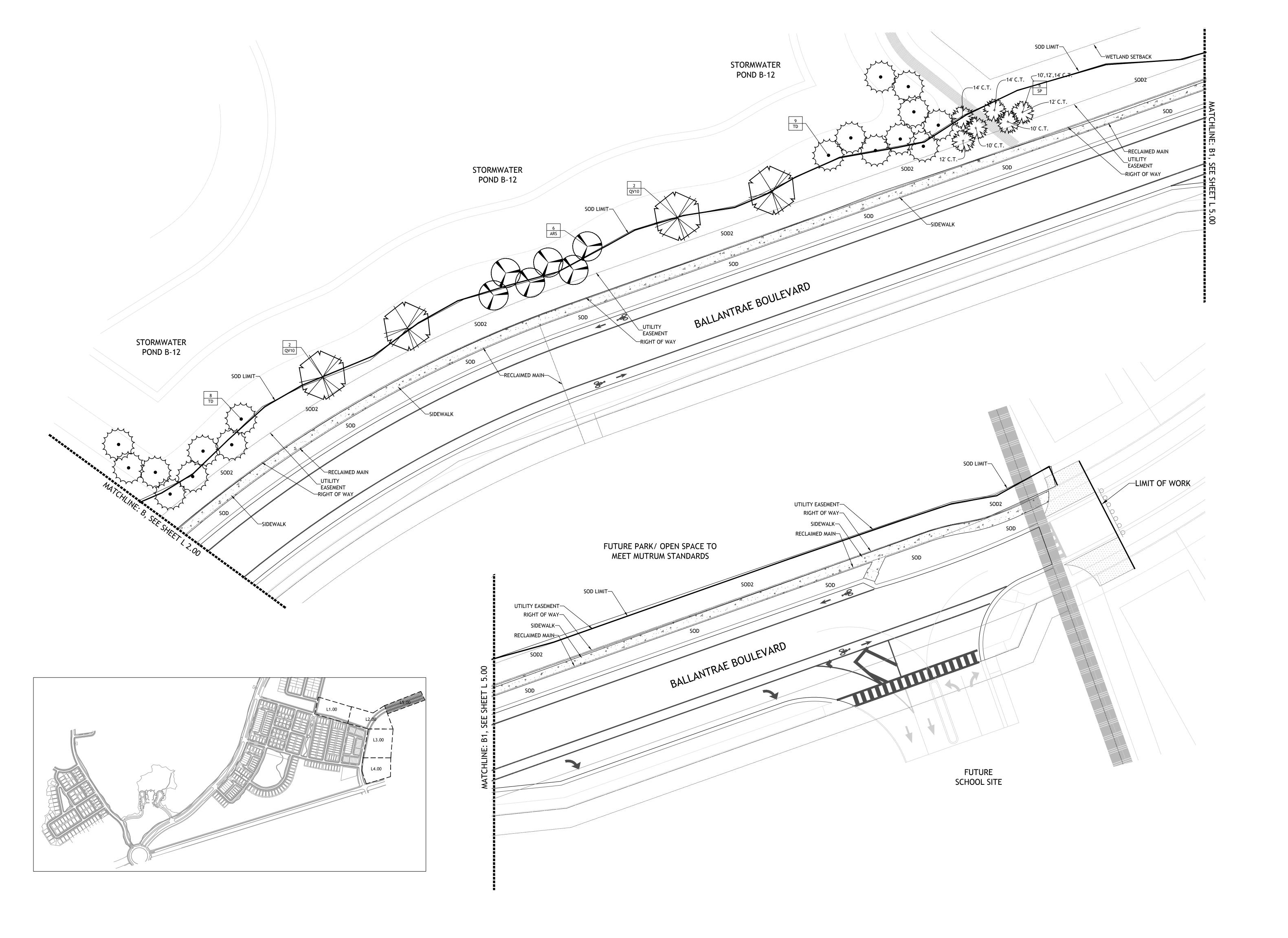
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HAB / JB CHECKED BY SCALE: 1"=20'-0"

LANDSCAPE DEVELOPMENT PLAN





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BEXLEY
PARCEL 4 PHASE
PARK AREAS

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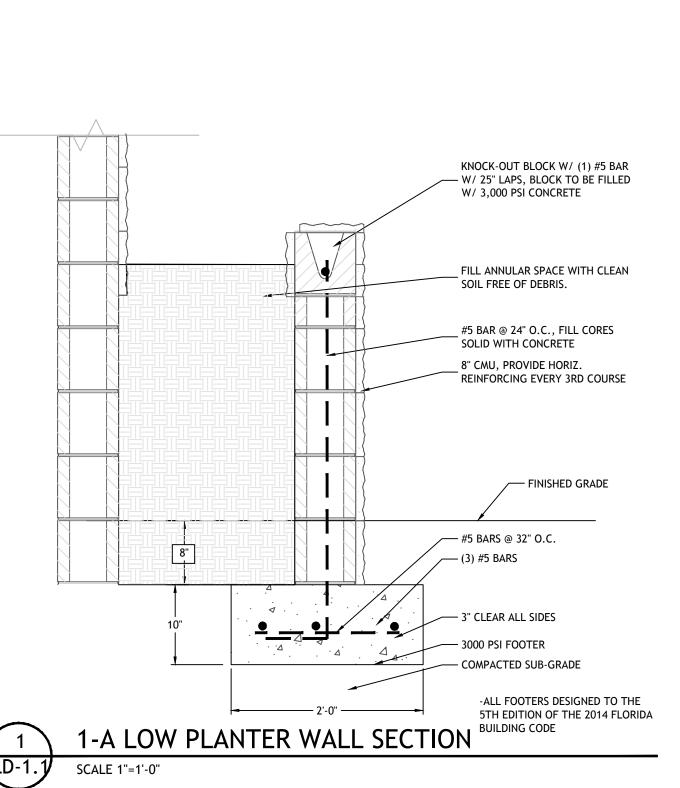
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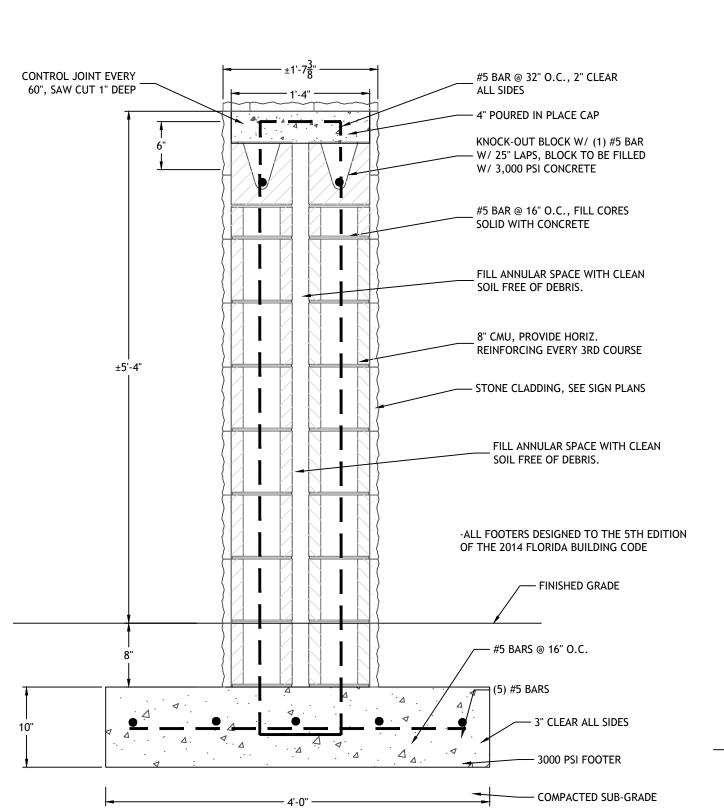
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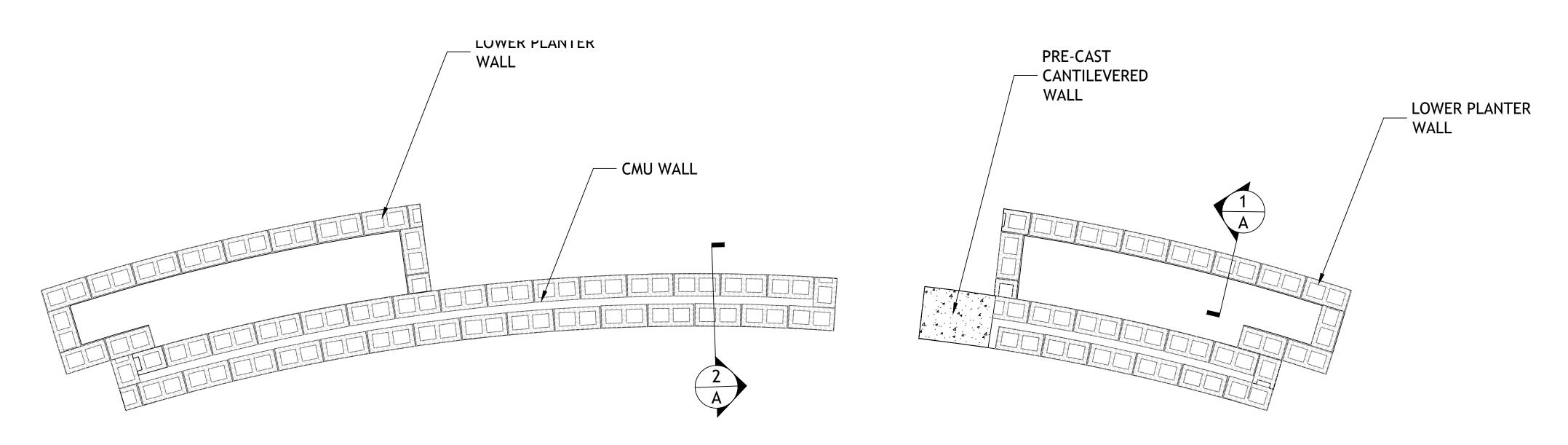
LANDSCAPE DEVELOPMENT PLAN

1 5.00

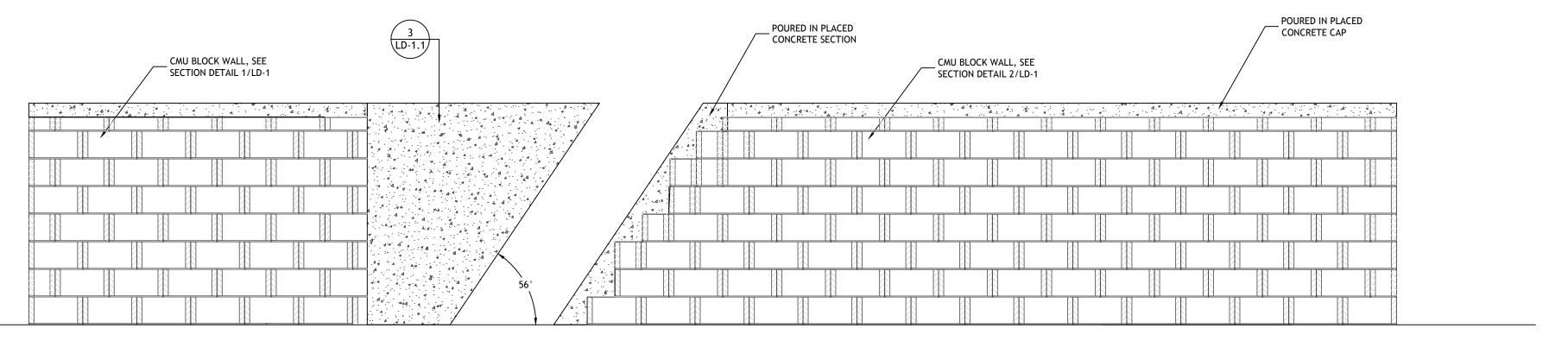




2-A TALL SIGN WALL SECTION

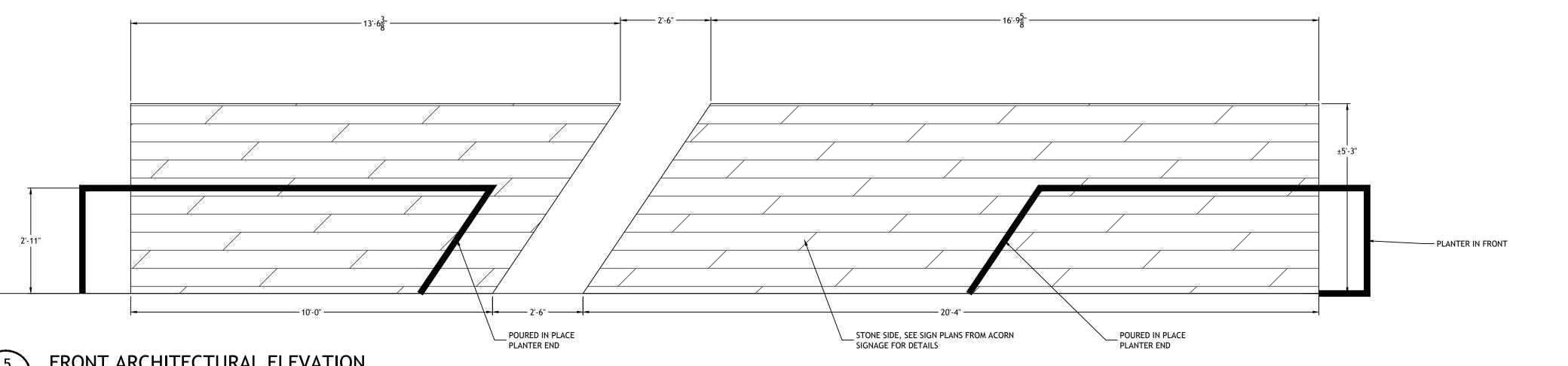


**ENTRY SIGN PLAN VIEW** 



FRONT STRUCTURAL ELEVATION SCALE 1/2"=1'-0"

> NOT FOR CONSTRUCTION, ISSUED FOR BIDDING PURPOSES ONLY



FRONT ARCHITECTURAL ELEVATION SCALE 1/2"=1'-0"

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CIVIL ENGINEER

CLEARVIEW LAND DESIGN 1213 E. 6TH AVE. TAMPA | FL 813-223-3919

IRRIGATION DESIGN BALLENGER AND COMPANY 3840 60TH AVE N. PINELLAS PARK | FL 727-620-1082

OWNER

NNP-BEXLEY, LLC 777 S. HARBOUR ISLAND BLVD. STE 320 TAMPA | FL 813-620-3555

**PHASE** BEXLEY PARCEL PARK ARI

FL Registration: LC26000471

SIGNATURE & SEAL

CONSTRUCTION DOCS. ISSUE DATE CODE MIN. PERMIT SET 01-14-15

3 REVIEW SET 4 BID SET 04-28-16

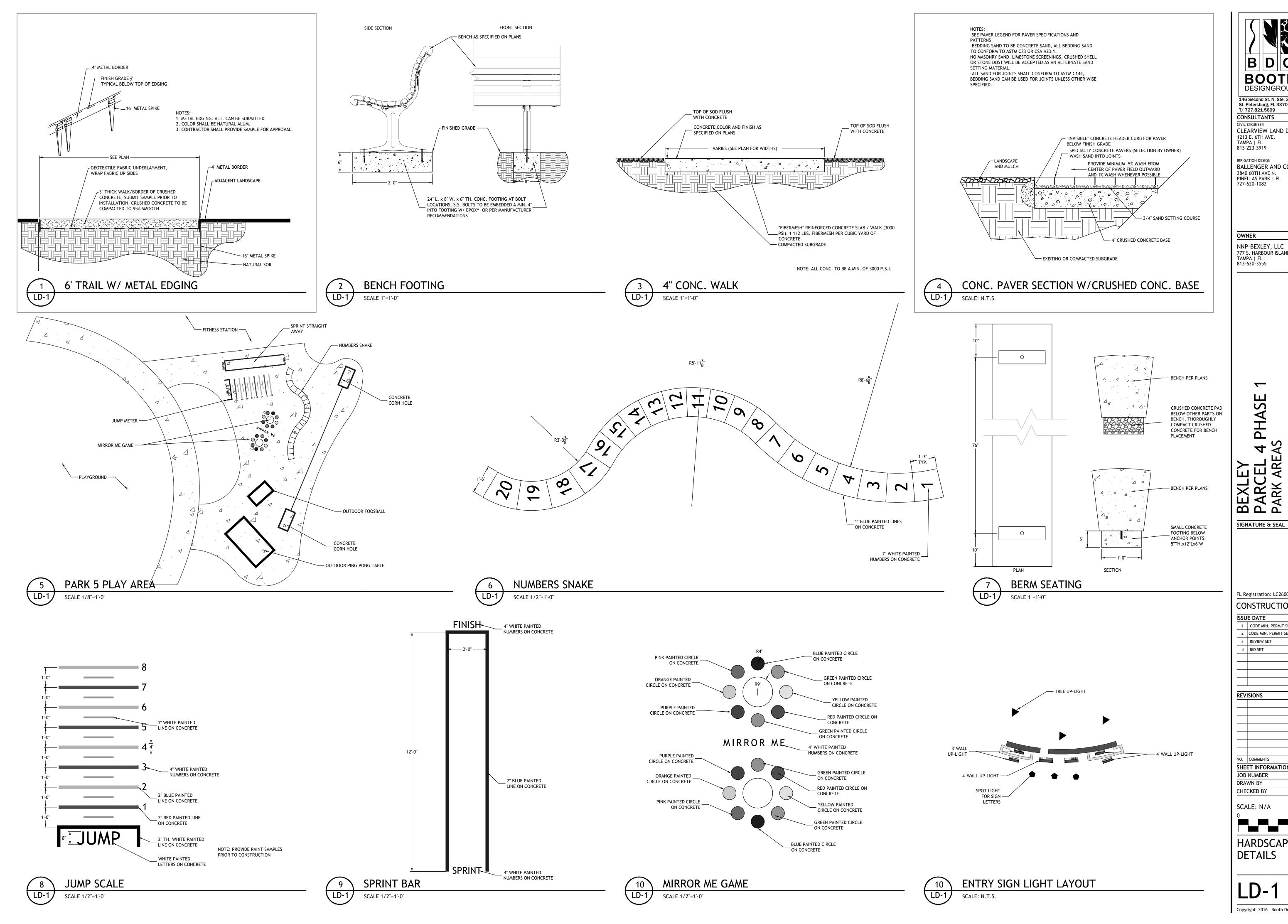
REVISIONS

DATE

NO. COMMENTS SHEET INFORMATION JOB NUMBER 14008 DRAWN BY GW / JB CHECKED BY HAB / JB

SCALE: N/A

HARDSCAPE DETAILS



DESIGNGROUP

146 Second St. N. Ste. 302 St. Petersburg, FL 33701 T/ 727.821.5699 CONSULTANTS

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CONSTRUCTION DOCS

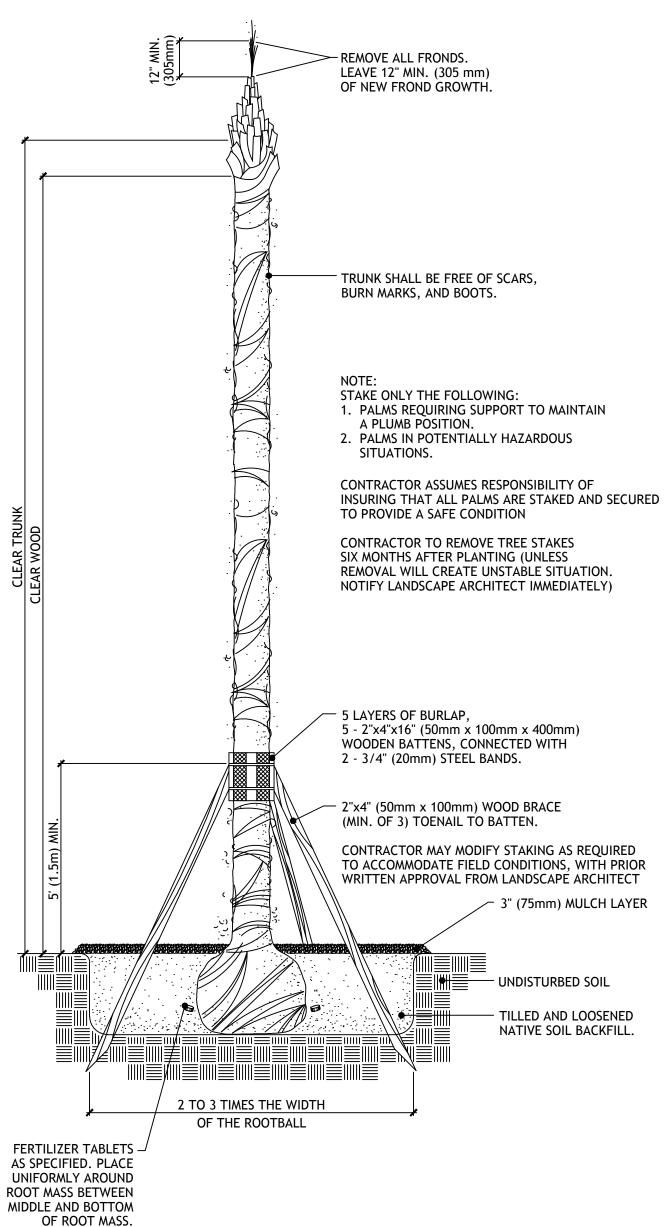
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REVISIONS

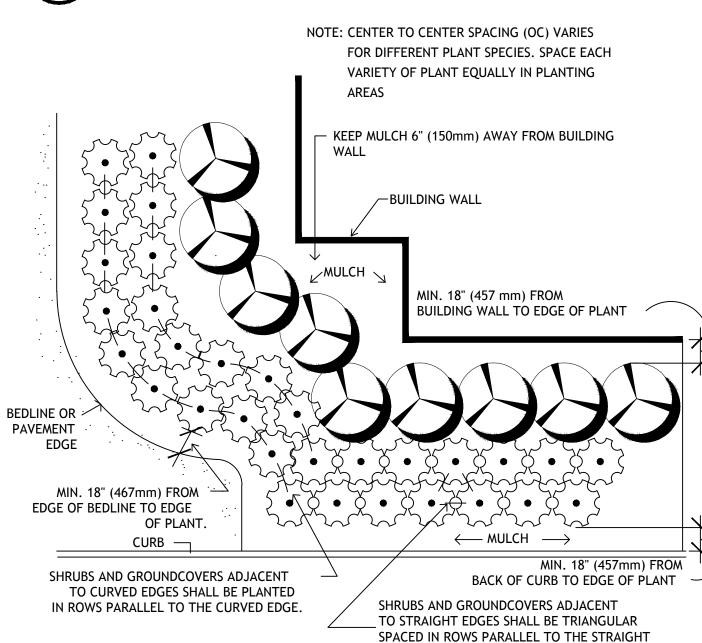
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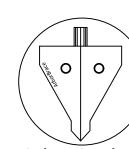
SCALE: N/A

HARDSCAPE DETAILS



SABAL PALM PLANTING DETAIL





ArborAnchor ArborAnchor driven below grade to necessary depth determined by soil. (1.5 to 2.5 feet as required)

Tension Buckle Loop loose end of webbing around leading branch of tree. Tie 1/2 knot onto backside of buckle. Pull buckle towards ArborAnchor to

CROWN SPREAD

THIS DETAIL IS A MINIMUM GUIDE. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE THE APPROPRIATE BRACING TO MAINTAIN THE TREE IN A SAFE, PLUMB AND UPRIGHT CONDITION FOR A PERIOD OF 1 YEAR. CONTRACTOR MUST ACCOUNT FOR PEDESTRIAN AND PROPERTY HAZARDS WHEN STAKING TREES. CONTRACTOR TO MAINTAIN BRACING FOR THE WARRANTEE PERIOD UNLESS OTHERWISE AGREED UPON.

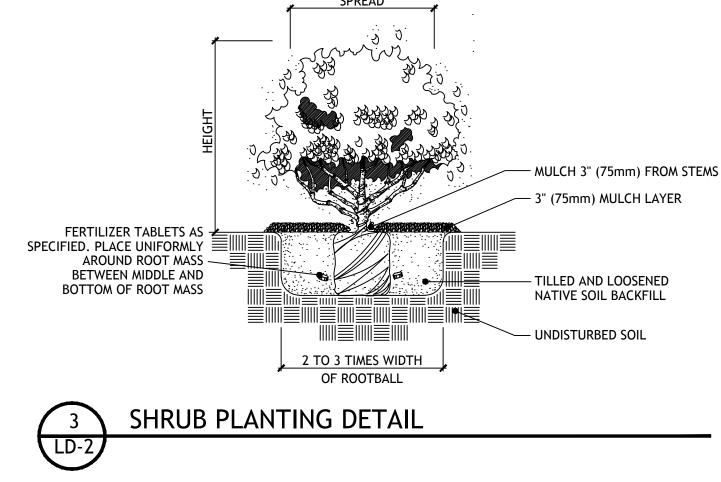
Arborbrace Tree Guying Specifications: ATG-R/ATG-HD For up to 4" Caliper Trees
(3) Polypropylene guylines 3/4" X 12'=800 lb (3) Nickel plated spring cam-lock tension clips
(3) Arrowhead Nylon Anchors (4" X 3-3/4")

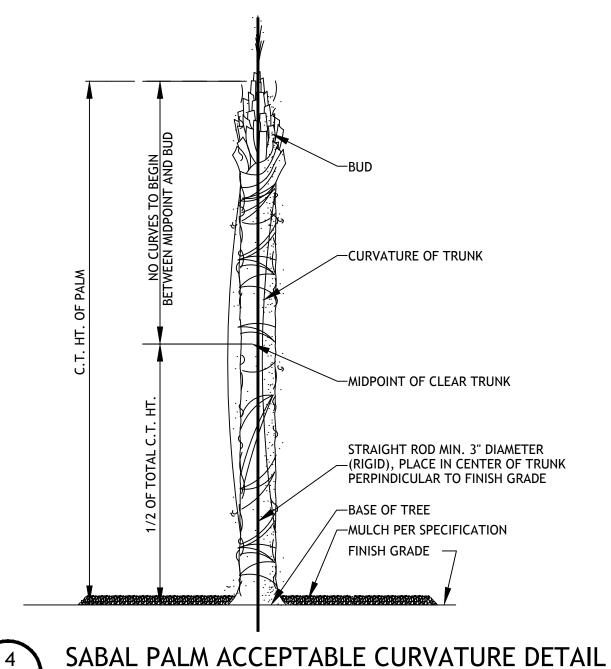
> Arborbrace Tree Guying Specifications:

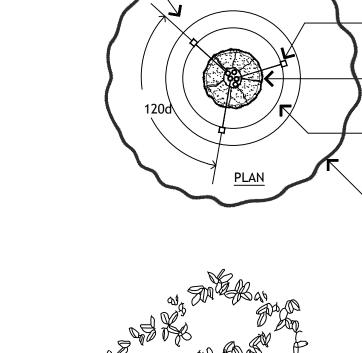
(3) Arrowhead Metal Anchors for hard soil

ATG-J For up to 7" Caliper Trees 1" X 12'=1,000 lb test, olive drab, UV resistant
(3) 1-1/4" Nickel plated, non-rusting spring cam-lock tension clips (1,500 lb break strength) (3) Arrowhead Aluminum Anchors for any soil type (5-1/2" X 4-1/2")

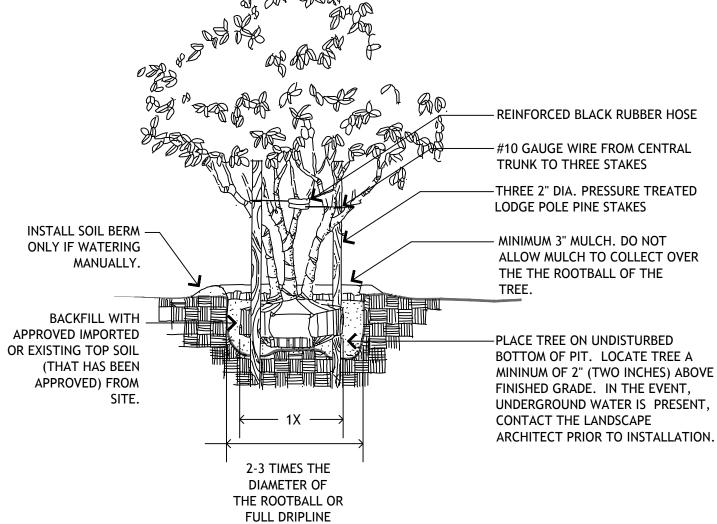
OTHER TREE STAKING SYSTEMS MAY BE ACCEPTABLE IF APPROVED







PREVAILING



- TREE STAKE

ROOTBALL

SOIL BERM FOR

WATERING

MANUALLY.

# MULTI-TRUNK TREE PLANTING DETAIL

# GENERAL LANDSCAPE NOTES

- 1. All plant materials to be Florida #1 or better quality, installed to highest
- nursery standards. Mulch to be MINI PINE BARK MULCH
- Mulch shall be installed to a minimum of 3" thick in all planting areas.
- Sod to be 95% weed free: SEE PLAN FOR DIFFERENT VARIETIES Sod to be installed with tight joints, rolled and fertilized at time of installation. All areas of the project site disturbed during construction shall be sodded with matching turf, unless specifically labeled otherwise. All areas within the project limits shall be provided with sod or other specified groundcover.
- All dimensions to be field-checked by the Landscape Contractor prior to construction, with any discrepancies reported immediately to the Landscape Architect.
- All materials must be as specified on the landscape plan. If materials or labor do not adhere to specifications, they will be rejected by the Landscape Architect with proper installation carried out by the Landscape Contractor at no additional cost.
- No substitutions or changes of any kind will be made at time of bidding, so as to provide for equal and fair comparisons.
- All permits necessary are to be provided by the installing Contractor
- unless otherwise specifically stated in the specifications.
- No contractor identification signs shall be permitted on the project.
- All questions concerning the plans and specifications are to be directed to the Landscape Architect, (727) 821-5699.
- Carefully review the Landscape Specifications. The installing
- Contractor will be held responsible for all items contained therein. All plant material shall be planted with TERRA-SORB AG, in accordance
- with the manufacturer's recommendations for the rate of application.
- 12. The contractor shall be responsible to provide storm water pollution prevention plans and appropriate construction site runoff controls to meet EPA's Natural Pollutant Discharge Elimination System rule on construction sites where more than one acre of land is disturbed.

# **FERTILIZATION**

# SHRUBS AND TREES

All trees and shrubs shall be fertilized with "Agriform" 20-10-5 planting tablets at time of installation and prior to completion of pit backfilling. Tablets shall be placed uniformly around the root mass at a depth that is between the middle and bottom of the root mass. **APPLICATION RATE:** 

1 Gallon can: 1 - 21 gram tablet 2 - 21 gram tablets 5 Gallon can: 3 - 21 gram tablets 7 Gallon can: 4 - 21 gram tablets

3 - 21 gram tablets each 1/2" of caliper Trees:

Palms: 7 - 21 gram tablets

# GROUNDCOVER AREAS

All groundcover areas shall receive fertilization with "Osmocote" time release fertilizer as per manufacturer's specifications.



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**REVISIONS** 

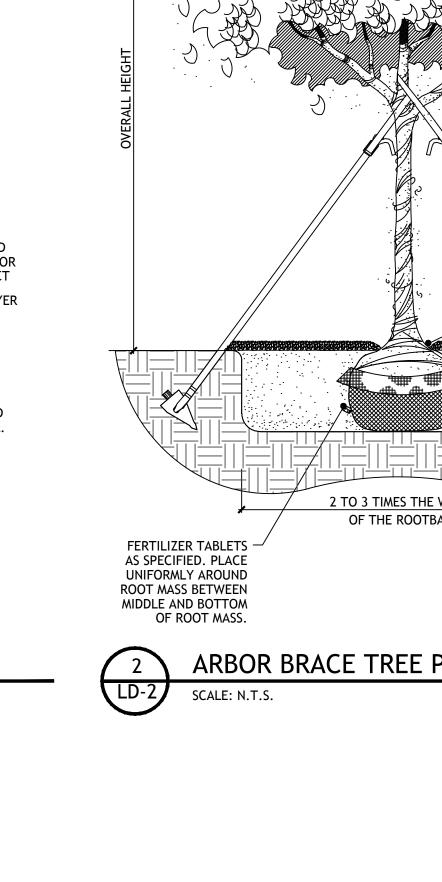
NO. COMMENTS DATE SHEET INFORMATION JOB NUMBER 14008 DRAWN BY GW / JB

CHECKED BY HAB / JB SCALE: N/A

**LANDSCAPE DETAILS** 

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SHRUB AND GROUNDCOVER LAYOUT DETAIL



CUT AWAY BURLAP AND STRAPS 3" BELOW TOP OF ROOTBALL 3" MULCH 3" FROM TRUNK - 3" MULCH LAYER TILLED AND LOOSENED NATIVE SOIL BACKFILL 2 TO 3 TIMES THE WIDTH -UNDISTURBED SOIL OF THE ROOTBALL

ARBOR BRACE TREE PLANTING DETAIL

### 1.00 GENERAL

### 1.01 RELATED DOCUMENTS

The Contract Documents shall include the Plans, Details, Specifications, Bid Proposal, Contract Agreement, all Addenda, Special Conditions, and Installation Schedule (when

### 1.02 REQUIREMENTS OF REGULATORY AGENCIES

- A. Comply with Federal, State, Local, and other duly constituted authorities and regulatory agencies, without additional cost to the Owner in matters pertaining to codes, safety, and
- B. Any permits for the installation or construction of any of the work included under the contract, which are required by any of the legally constituted authorities having jurisdiction, shall be arranged for by the Contractor and paid for directly by the Contractor, unless otherwise agreed

### 1.03 SCOPE OF WORK A. All provisions of Contract, including General and Special Provisions and Plans, apply to the work specified in this Section. The Scope of Work includes everything for and incidental to executing and completing all landscape work shown on the Plans, Schedules, Notes and as

- B. Furnish and provide all labor, plants and materials, tools and equipment necessary to prepare the soil for plantings, to install and care for all plant materials (including finish grading if necessary); to remove and/or transplant existing plants if indicated; to furnish, plant, fertilize guy and brace, water, mulch and prune all new plant materials; and to execute all other Work as described herein or indicated on the Plans.
- C. Work under this Section shall include labor and materials for final grading and raking to prepare the site for sodding, sprigging, or seeding, so finished lawn or playing field will appear even and uniform, will drain adequately, and will comply with the intent of the landscape
- D. Initial maintenance of landscape materials as specified in this document.

### 1.04 QUALITY ASSURANCE

- Landscape work shall be contracted to a single firm specializing in landscape work, who shall in turn subcontract no more than 40% of the work specified. All subcontractors under the control of the Contractor involved in the completion of the landscape work, shall be made known to the Owner and the Landscape Architect prior to their commencement of work on the
- B. All work of this Section shall conform to the highest standard of landscape practices.
- C. The Plant Material Schedule included with these Plans is provided only for the Contractor's convenience; it shall not be construed as to conflict or predominate over the Plans. If conflict between the Plans and the Specifications exists, the Plan shall predominate and be considered the controlling document.
- D. During this work, the Contractor shall be responsible for maintaining safety among persons in his employ in accordance with the standards set by The Occupational Safety and Health Act of 1970 (and all subsequent amendments). Owner and Landscape Architect shall be held harmless from any accident, injury or any other incident resulting from compliance or non compliance with these standards.
- E. The Contractor shall cooperate with and coordinate with all other trades whose work is built into or affects the work in this Section.
- appropriate utility companies and agencies shall be contacted 72 hours prior to excavation Il "Sunshine" at 1-800-432-4770.
- G. The Contractor shall carefully examine the site and all existing conditions affecting the work, such as: soil, obstructions, existing trees, utilities, etc. Report any conditions in conflict with the work to the Landscape Architect .

## 1.05 SUBMITTALS A. The Contractor is required to submit two copies of typewritten instructions recommending

- procedures to be established by the Owner for maintenance of landscape work. These instructions must be submitted prior to the expiration of the required maintenance period and must cover maintenance procedures over a one year period. B. Furnish unit prices for all plant and inert materials, including labor for all specified work.
- 1.06 ALTERNATES, ADDITIONS, DELETIONS, SUBSTITUTIONS
- A. If there are additions/alternates included in these Plans and Specifications, the Contractor must propose prices to accomplish the work stated as additions/alternates at the time of
- B. The Owner, through his Project Representative, reserves the right to add or deduct any of the work stated herein without rendering the Contract void.
- C. The Contractor must have written approval by the Project Representative for any substitutions not previously agreed to in the purchase agreement: installation without approval is entirely
- D. All material acquired through additions or substitutions shall be subject to all conditions and warranties stated herein. 1.07 ABBREVIATIONS/DEFINITIONS
- A. O.A. or HT.: The over—all height of the plant measured from the ground to the natural, untied state of the majority of the foliage, not including extreme leaves, branches or fronds.
- C.T.: Clear trunk is measured from the ground to the bottom of the first leaf or frond stem with no foliage from ground to specified height. For example, on Canary Island Date Palms or similar, the clear trunk measurement includes the "nut" at the base of the fronds.
- C. C.W.: Clear wood is measured from the ground to the bottom of the base of the lowest leaf sheath or boot, trimmed in a natural manner. For example, on Canary Island Date Palms or similar, the clear wood measurement does not include the "nut" at the base of the fronds.
- D. SP.: Spread, branches measured in natural untied position to the average crown diameter
- not including extreme leaves, branches, or fronds. E. ST.TR.: Straight trunk.
- F. MIN.: Minimum
- G. GAL.: Gallon container size, i.e., 1 gallon (3.8 liters), 3 gallon (11.4 liters), 7 gallon (26.5
- I. O.C.: On center, distance between plant centers.
- J. DIA.: Diameter
- K. LVS.: Leaves
- L. D.B.H.: Diameter or caliper of main trunk of tree as measured at breast height at 4 1/2 feet
- M. CAL.: Caliper, the outside diameter of up to a four inch (100 millimeters) tree is measured six nches (150 millimeters) above grade, larger trees are measured at 12 inches (300 millimeters) above grade.
- N. B&B: Balled and burlapped in accordance with horticultural standards of the American Association of Nurserymen.
- O. PPP: Plants per pot. P. FG: Field grown
- Q. STD.: Standard, single, straight trunk.
- R. Owner: To be known as that entity which holds title or control to the premises on which the
- S. Owner's Representative: Owner's on-site representative shall be responsible for approval of
- quantity and quality of materials specified and execution of installation
- Contractor: Shall refer to that person or enterprise commonly known as the Landscape
- U. Landscape Architect: This person or firm is the responsible representative of the Owner who produces the landscape Plans and Specifications.

### 1.08 PRODUCT DELIVERY, STORAGE, AND HANDLING A. Plant Materials:

- Provide container grown or, if appropriate, freshly dug trees and shrubs. Do not prune prior to delivery. Do not bend or bind trees or shrubs in such a manner as to damage bark, break branches or destroy natural shape. Provide protective covering during delivery. If plant delivery is made in open vehicles, the entire load shall be
- 2. All plants are to be handled at all times so that roots or root balls are adequately protected from sun, cold or drying winds. No root balls for trees and container plants that have been cracked or broken shall be planted except upon special approval. Plants shall not be pulled by the tops or stems, nor handled in a rough or careless
- 3. Balled and burlapped plants shall be moved with firm, natural, balls of soil, not less than 1 foot diameter of ball to every 1 inch (25 millimeter) caliper of trunk; root ball depth shall not be less than 2/3 of root ball diameter. B'& B plants which cannot be planted upon delivery shall have their root balls covered with moist soil or mulch.
- 4. Trees shall be dug with adequate balls, burlapped, and wire bound if needed. Root pruning to be done a minimum of 4 weeks before removal from the field and planting at the site. Root balls may not be encased in "grow bags" or other synthetic material, except plastic shrink wrap for transport only.
- 5. Remove all fronds from sabal palms prior to planting, but leave a minimum of 12 inches (300 millimeters) of new frond growth above the bud. Do not damage bud. On all other palms, only a minimum of palm fronds shall be removed from crown to facilitate moving and handling. Clear trunk shall be determined after minimum fronds have been removed. Boots shall be removed from trunk unless otherwise specified. Palms shall be planted within 24 hours of delivery.

- 6. Deliver trees and shrubs after preparations for planting have been completed and plant immediately. If planting is delayed more than 6 hours after delivery set trees and shrubs in shade, protect from weather and mechanical damage, and cover to
- 7. Label at least one tree and one shrub of each variety with a securely attached waterproof tag bearing legible designation of botanical and common name.
- 8. Sod: Time delivery so that sod will be placed within twenty four (24) hours after stripping. Protect sod against drying and breaking by covering palettes of sod or placing in a shaded area.

### 1.09 JOB CONDITIONS A. Acceptance of Job Conditions

- The Contractor shall examine the sub-grade, verify elevations, observe the conditions under which work is to be performed and notify the Landscape Architect or Project Representative in writing of unsatisfactory conditions prior to beginning work. Do not proceed with the work until unsatisfactory conditions have been corrected in a manner acceptable to the Landscape Architect. Start of work shall indicate acceptance of conditions and full responsibility for the completed work.
- 2. Proceed with and complete the landscape work as rapidly as portions of the site become available, working within the seasonal limitations for each kind of landscape work and following the approved schedule. If seasonal limitations apply, notify the Landscape Architect for adjustments to the Schedule
- 3. Determine locations of all underground utilities and review for conflicts with planting procedures.
- 4. When adverse conditions to plant growth are encountered, such as rubble fill, drainage conditions or obstruction, the Contractor shall notify the Landscape Architect in writing prior to planting.
- 5. Plant trees and shrubs after final grades are established and prior to the planting of lawns, protecting lawn areas and promptly repairing damages from planting

### B. Scheduling of Work

- 1. The work shall be carried out to completion with the utmost speed. Immediately upon award of contract, the Contractor shall prepare a construction schedule and furnish a copy to the Owner's Representative and/or the Landscape Architect for approva he Contractor shall carry out the work in accordance with the approved schedule.
- 2. If the Contractor incurs unforeseen costs, such as overtime hours, holidays, etc. in order to complete the work within the time stated in the Contract, and/or to maintain the progress schedule, all said costs shall be borne by the Contractor at no additional
- The Owner's Representative's, may request work stoppage. Upon written request from the Owner's Representative, the Landscape Contractor shall suspend delivery of material and stop all work for such a period as deemed necessary by the Owner's Representative. Upon receipt of such notice, the Landscape Contractor shall mmediately confer with the Owner, the Owner's Representative, or the General Contractor with respect to any additional costs which may result from work stoppage.

The Contractor shall perform work in a manner which will avoid conflicts with utilities. Hand excavate, as required, to minimize possibility of damage to underground utilities. Maintain grade stakes set by others until removal is mutually agreed upon by all parties concerned.

## 2.00 PRODUCTS

### A. Plant Materials: Nomenclature

C. Grasses: Sod or Seed

D. Mulch:

E. Fertilizer

- Plant species, sizes, etc. shall be per Plans and Specifications on Plant Material Schedule. Nomenclature is per Hortus Third, L.H. Bailey and E.Z. Bailey, 1976 (or latest edition), or Standardized Plant Names as adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature, and as conforms with names accepted in the nursery trade.
- B. Plant Materials: Quality Assurance
  - Provide healthy, vigorous stock grown under climatic conditions similar to conditions in the locality of the project. Plants shall have a habit of growth that is normal for the species and be sound, healthy, vigorous and free from insect pests or their eggs, plant diseases, defects, and injuries. Plants shall be well-branched and densely pliated when in leaf and shall have healthy, well—developed root systems.
- 2. Trees shall be heavily branched or, in the case of palms, be heavily leafed. Some plant materials may be collected stock with the approval of the Landscape Architect. Provide tree species that have a single main trunk (central leader), unless otherwise stated. Trees that have the main trunk forming a "Y" shape or parallel branching are not acceptable.
- 3. Plant materials shall be as specified and shall be Florida #1 or better as to shape and quality for the species as outlined in Grades and Standards for Nursery Plants Parts 4. The Owner or Landscape Architect reserves the right to inspect plant materials either

at the place of growth or at the project site prior to planting for compliance with

requirements for name variety, size, quality, or designated area. 5. Landscape materials shall be shipped with certificates of inspection as required by governmental authorities. The Contractor shall comply with all governing regulations

that are applicable to landscape materials.

- Landscape Architect proof of it being non-available. In such event, if the Landscape Architect designates an available source, such shall be acquired from designated source. When authorized, a written change order for substitute material will be prepared, as well as any required adjustments to the Contract amount
- Height and/or width of trees shall be measured from ground up; width measuremen shall be normal crown spread of branches with plants in the normal position. This measurement shall not include immediate terminal growth. All measurements shall be taken after pruning for specified sizes. All trees and shrubs shall conform to measurements specified in the plant material schedule, except that plant material larger than specified may be used with the approval of the Owner or Landscape Architect; with no increase to the Contract price. Plant materials shall not be pruned prior to delivery.
- 8. Plant Material shall be symmetrical, typical for variety and species. Plants used where symmetry is required shall be matched as nearly as possible
- 9. Balled and burlapped plants shall have firm, natural balls of earth of sufficient diameter and depth to encompass the feeding root system necessary for full development of the plant and to conform with the standards of the American Association of Nurserymen. Root balls and tree trunks shall not be damaged by improper binding and/or balling & burlapping procedures.
- 10. Container-grown plants may be substituted for balled and burlapped plants or viceversa provided the quality is equal or better than specified and the Landscape
- 11. Container grown stock shall have been grown in containers for at least four months. but not over two vears. If requested, samples must be shown to prove no root bound
- Sod or seed (as/if specified) shall be of a species as stated on the Plan. Solid sod shall be of even thickness and with a good root structure. 95% free of noxious weed. freshly mowed before cutting, and in healthy condition when laid. It must not be stacked more than 24 hours before laying and it must be grown in soil compatible to that in which it will be installed. Sod must be kept moist prior to and after installation
- Seed shall be delivered to the site in unopened bags with certification tags in place. Purity, germination and weed content shall be as certification requirements.
- Mulch shall be 100% recycled wood mulch, thoroughly mixed with a pre-emergence weed killer according to the label directions. If recycled mulch is not specified, the Contractor shall install pine bark, or other as specified on the plans
- 2. Install mulch to an even depth of 3 inches (75 millimeters) before compaction.
- 1. Granular fertilizer shall be uniform in composition; free flowing and suitable for application with approved equipment; received at the site in full, labeled, unopened bags bearing the name, trade name or trademark and warranty of the producer; fully
- All fertilizer shall bear the manufacturer's statement of analysis and shall contain the
- Agriform 20-10-5 fertilizer tablets or approved equal, shall be placed in planting pit r all plant materials at time of installation and prior to completion of pit backfilling.
- 4. Ground cover and annual areas shall receive fertilization with Osmocote Time Release Fertilizer according to product instructions and rate
- For sod and seeded areas, fertilize with a complete aranular fertilizer on Bahia and St. Augustine grass at the rate of one (1) pound (.45̃36 kilogram) of nitrogen per one thousand (1,000) square feet (92.9 square meters). Fertilizer shall be commercial grade, mixed granules, with 30%- 50% of the nitrogen being in slow or controlled release form. The ratio of nitrogen to potash will be 1:1 or 2:1 for complete fertilizer formulations. Phosphorus shall be no more than 1/4 the nitrogen level. They shall also contain magnesium and micronutrients (i.e. manganese, iron, zinc, copper, etc.)

- For hardwood trees, approved below—grade staking shall be used at the rootball. per the planting detail. Metal strand guy wire shall not be used.
- For single trunk palms, stakes shall be cut from 2 inch (50 millimeter) x 4 inch (100 millimeter) pressure treated (p.t.) stock, with a minimum of 3 stakes per palm. Batten consisting of 5 layers of burlap and 5 - 2 inch (50 millimeter) x 4 inch (100 millimeter) 16 inch (400 millimeter) wood connected with two - 3/4 inch (19 millimeter) steel bands shall be used around the palm trunk.

# 3. Other tree staking systems may be acceptable if approved.

- Unless stated on the plans or in the specifications, install plant material in tilled and oosened native soil backfill. It is the responsibility of the Landscape Contractor to test prior to plantina and at no additional cost to the Contract, any soils which may be unsuitable for the vigorous growth of plants. Unsuitable conditions shall be eported to the Landscape Architect immediately in writing.
- When required, planting soil media shall be provided by the Contractor and shall consist of 1/3 peat and 2/3 sandy loam, with no lumps over 1 inch (25 millimeters).
- Backfill and clean fill dirt provided by the Contractor shall be in a loose, friable soil There must be slight acid reaction to the soil with no excess of calcium or carbonate, and it shall be free from excess weeds, clay lumps, stones, stumps, roots and toxic substances or any other materials that might be harmful to plant growth or a nindrance to grading, planting, and maintenance procedures and operations.
- 4. Bed preparation for annual beds under 1 gallon (3.785 liters) container size shall consist of 3 inches (75 millimeters) of Florida peat or other approved organic soil amendment spread over full length and width of planting area. Rototil organic layer 6 inches (150 millimeters) to 8 inches (200 millimeters) into native soil.

## H. Soil Amendments:

G. Planting Soil

Tree Protection Wood fencing shall be 2 inch (50 millimeters) x 4 inch (100 millimeters) pressure treated (p.t.) stock with flagging on horizontal members. Space vertical members 6 feet (1.83 meters) to 8 feet (2.44 meters) on center. The barricade shall be placed o as to protect the critical protection zone area, which is the area surrounding a tree within a circle described by a radius of one foot for each inch (25 millimeter) of the

Terra—Sorb AG or approved equal, soil amendment shall be mixed with native or

manufacturer's recommended application rates and methods, if specified on the

planting soil for all trees, shrubs, ground cover, and annuals according to

- tree's diameter at breast height DBH at 4 1/2 feet (1.37 meters) above grade. J. Root Barrier System
  - Root barrier fabric shall be installed when specified in the plans and/or specifications for protection of adjacent paved surfaces according to specific product name or equal. Install as directed by the manufacturer.
- K. Packaged Materials: Deliver packaged materials in containers showing weight, analysis and name of manufacturer. Protect materials from deterioration during delivery and while stored at the site.
- Pesticides shall be only approved, safe brands applied according to manufacturer's

### 3.01 PREPARATION A. Obstructions Below Ground:

- It shall be the responsibility of the Contractor to locate and mark all underground utilities, irrigation lines and wiring prior to commencement of the work.
- 2. If underground construction, utilities or other obstructions are encountered in excavation of planting areas or pits, the Landscape Architect shall be immediately
- notified to select a relocated position for any materials necessary. B. Grading and Preparation for Plant Materials
- All proposed landscape areas containing existing turf grass or weeds shall be treated with Monsanto's "Round—Up" per manufacturer's specifications. All proposed landscape areas adjacent to water bodies shall be treated with Monsanto's "Rodeo" per the manufacturer's specifications.
- New plant materials will not be installed until a 98% weed/turf eradication has been achieved. More than one application may be required to produce an acceptable planting bed
- 3. A pre-emergent herbicide may be applied, but it is not a substitute for spray treatment of "Round-Up" or "Rodeo". 4. Should any plant material in the same, or adjacent beds be damaged by these
- chemicals, the same size, quantity and quality of plants shall be immediately replaced by the Contractor at no cost to the Owner Any necessary corrections or repairs to the finish grades shall be accomplished by the Contractor. All planting areas shall be carefully graded and raked to smooth, ever finish grade, free from depressions, lumps, stones, sticks or other debris and such that they will conform to the required finish grades and provide uniform and
- satisfactory surface drainage without puddling. The contractor shall remove debris (sticks, stones, rubbish) over 1 - 1/2 inches (38) millimeters) in any dimension from individual tree, shrub and hedge pits and dispose

# C. Preparation for Annual Bed Planting

of the excavated material off the site.

- Prepare native subgrade by rototilling or loosening by hand methods. Spread 3 inches of Florida peat (1/3), sandy loam (1/3), or other approved organic soil amendment over the full length and width of planting area for annuals. Rototill organic layer 6 inches (150 millimeters) to 8 inches (200 millimeters) into the native vil. Grade the planting bed by "crowning" to insure that surface drainage, percolation, and aeration occur at rapid rates. Add Osmocote time release fertilize according to product instructions and rate.
- D. Preparation for Seeding and Sod Areas
  - All proposed sod areas containing existing turf grass or weeds shall be treated with Monsanto's "Round—Up" per manufacturer's specifications. All proposed sod areas adjacent to water bodies shall be treated with "Rodeo" per the manufacturer's
  - Limit preparation to areas which will be planted promptly after preparation. Loosen sub-grade of seed and sod areas to a minimum depth of 4 inches (100 millimeters). Immediately prior to any turf Work, the Contractor shall finish grade the soil to a smooth, even surface assuring positive drainage away from buildings and the
  - be sloped to existing yard drains. A complete fertilizer shall be applied to St. Augustine or Bahia grass at a rate of one (1) pound (.4536 kilogram) of nitrogen per 1000 square feet (92.9 square meters). Fertilizer shall be commercial grade, mixed granules, with 30%—50% of the nitrogen being in slow or controlled release form. Thoroughly work fertilizer into the top 4 inches (100 millimeters) of soil.

subsequent turf flush to the tops of adjacent curbs and sidewalks. The surface shall

Moisten prepared seed and sod areas before planting if soil is dry. Water thoroughly and allow surface moisture to dry before planting lawns. Do not create a muddy so

# A. Berm Construction (if specified)

- Install berms at location and design shown on Plans and at the height and slope indicated. Height stated is for finished berm with soil at natural compaction.
- 2. Exact location and configuration of berms may require modification to allow proper
- drainage; such changes will be coordinated with the Landscape Architect If shown on the Plan, construct berms using clean sandy loam fill dirt which is well— drained, free of rocks, roots, or other debris, with a soil pH of an acid nature (about No heavily organic soil, such as muck or peat shall be used in berm

# B. Layout of Plant Materials:

as possible to the intent of the plans.

- Unless otherwise stipulated, plant materials shall be approximately located per the plans by scale measurements using established building, columns, curbs, screen valls, etc. as the measuring reference point. Slight shifting may be required to clear wires, prevent blockage of signage, etc.
- Shrubs and ground covers shall be located and spaced as noted on the plant material schedule (if provided), otherwise plants will be placed in the planting beds at the normally accepted spacing for each species.

Contractor with the approval of the Landscape Architect in order to conform as nearly

Leave a minimum 18 inch (450 millimeters) border of mulched space between outer leaves of installed plant material and the bed line, curb, or building foundation wall for Any necessary "minor" adjustments in the layout of planting shall be made by the

## C. Planting Procedures:

- All shrubs, trees and ground covers or vines shall be planted in pits having vertical sides and being circular in outline. Planting pit shall be 3 to 5 times the width of the
- root ball and no deeper than the height of the root ball. Plants shall be set straight or plumb, in the locations shown, at such level that afte settlement normal or natural relationship of the top of the root ball with the ground surface will be established. With regards to proper nursery practices, plants unde certain conditions (i.e. low and wet areas) will benefit from being planted "high" with the root ball about 1 inch (25 millimeters) higher than the surrounding grade.
- 3. All plant materials shall be fertilized with Agriform 20—10—5 planting tablets, or approved equal, at time of installation and prior to completion of pit backfilling. griform planting tablets shall be placed uniformly around the root mass at a depth that is between the middle and the bottom of the root mass.

Application rate gallon (3.8 liter) 1 — 21 gram tablet 2 - 21 gram tablet 3 gallon (11.4 liter) j gallon (18.9 liter) gallon (26.5 liter)

4 - 21 gram tablet 3 tablets each 1/2 inch (12 Native soil shall be used in back-filling plant pits or as specified. The Contractor shall

21 gram tablet

When balled and burlapped plants are set, undisturbed native soil shall be left under the base of the root ball to prevent voids. Backfill tilled and loosened native soil around the sides of the root ball. Remove the top 4 inches (100 millimeters) of burlap, wire, and all tie-down material from the root ball. Do not remove these materials from the bottom of the root ball. Thoroughly water-in before bringing the back-fill up to the proper grade. Roots of bare plants shall be properly spread out, and planting soil carefully worked in among them. Failure to comply is cause for

be responsible for providing additional soil for building tree saucers.

- Containerized plants shall be installed with undisturbed native soil left under the base of the root ball to prevent voids. Planting pit shall be 3 to 5 times the width of the root ball and no deeper than the height of the root ball. Backfill tilled and loosened native soil around the sides of the root ball. Thoroughly water—in before bringing the backfill up to the proper grade.
- Plant spacing shall be "on center" and varies with the different plant species. Space each variety of plant equally in the planting areas. Shrubs and around covers adjacent to straight or curved edges shall be triangular-spaced in rows parallel t those edges. Plant a minimum of 18 inches (450 millimeters) from the back of the curb to the outside edge of the plant.

All azaleas shall be placed into a prepared bed of amended soil containing 50%

weed—free Florida peat or approved equivalent. Root balls shall be scarified vertically

at 120 degree angles in a triangular pattern. 9. Sabal palms may be planted deeper than normal if conditions warrant and if

# approved.

- During periods of drought, sod shall be watered sufficiently at its origin to moisten the soil adequately to the depth to which it is to be cut. An application of 6-6-6, 40% organic, slow or controlled release fertilizer shall be made to all lawn areas just prior to the laying of the sod at a rate of one (1) pound of nitrogen (.4530 kilogram) per 1,000 square feet (92.9 square meters). The ground
- Solid sod shall be laid tightly with closely abutting staggered joints with an even surface edge and sod edge, in a neat and clean manner to the edge of all the paving and shrub areas. Cut down soil level to 1 inch (25 millimeters) to 1 - 1/2 (38
- millimeters) inches below top of walks prior to laying sod. Within 2 hours after installing sod and prior to rolling, irrigate the sod. Sufficient water shall be applied to wet the sod thoroughly and to wet the sod to a depth of 2 inches (50 millimeters). Watering shall be done in a manner that will avoid erosion due to the application of excessive quantities, and the watering equipment shall be of a type that will prevent damage to the finished sod surface. Watering shall be repeated as necessary to keep sod moist until rooted to subgrade.
- The sod shall be pressed firmly into contact with the sod bed using a turf roller or other approved equipment so as to eliminate air pockets, provide a true and even surface and insure knitting without any displacement of the sod or deformation of the surfaces of sodded areas. After the sodding operation has been completed, the edges of the area shall be smooth and shall conform to the grades indicated
- 6. If, in the opinion of the Landscape Architect, top dressing is necessary after rolling, clean silica sand shall be used to fill voids. Evenly apply sand over the entire surface to be leveled, filling-in dips and voids and thoroughly washing into the sod areas. On slopes steeper than 2:1 and as required, the sod shall be fastened in place with suitable wooden pins or by other approved method.
- Seed shall be installed per the specifications of the State of Florida Department of Transportation. See plan for type of seed. F. Tree Guying, Bracing and Staking: Tree guying, staking and bracing shall be the responsibility of the Contractor per

sound nursery practices, and shall be done per details shown on the Plans. For trees,

spacing shall be used. Stakes shall be installed per the manufacturer's directions. All hardwood trees shall be staked with below-grade staking. For single trunk palms, a minimum of 3 stakes per palm at 120 degree spacing shall be used. Toenail the stakes to batten consisting of 5 layers of burlap and 5-2 inch (50 millimeters) x 4 inch (100 millimeter) by 16 inch (400 millimeter)

a minimum of 2 stakes per tree or an optional 3 to 4 stakes per tree at equal

- wood connected with two 3/4 inch (19 millimeter) steel bands. Palms shall be staked with a minimum of 5 feet (1.5 meters) of stake above grade. Contractor shall remove all palm guying, staking, and bracing from trees six (6) months after the date of final acceptance of the landscape work
- Contractor shall not remove below—arade staking and bracing from hardwood trees after the date of final acceptance of the landscape work. Stake only trees that require support to maintain a plumb position or are in

- 1. All planting beds shall be weed-free prior to mulching.
- 2. All curb, roadway, and bed line edges will be "trenched" to help contain the
- All plant beds and tree rings shall be mulched evenly with a 3 inch (75 mm) layer (before compaction) of 100% recycled wood mulch, or other mulch as specified on the Plans or General Notes. 4. Mulch shall not be placed against the trunks of plant materials or foundations of buildings. Maintain a minimum 3 inch (75 millimeters) clearance for trees and shrub trunks and a minimum 6 inch (150 millimeters) clearance for the
- For beds of annual flowers, a 12 inch wide (300 millimeter) x 3 inch (75 mm) deep band of mulch shall be installed in front of the first row of annuals. Maintain a minimum 6 inches (150 millimeters) of non-mulched clearance from the outside edge of annuals.

# H. Pruning

- General pruning to maintain the natural shape and form of the plant shall
- be done by experienced personnel. Complex pruning operations or treatment of diseased tree members shall be done by a licensed arborist. 2. Upon acceptance by the Owner, prune any broken branches, remove crossed branches, and branches hanging below the clear trunk of the tree

### 2. The Contractor shall promptly remove any materials and equipment used on the job, keeping the area neat at all times. Upon completion of all planting, dispose of all excess soil and debris leaving pavements and work areas in a safe and orderly condition.

3. The clean-up of the site shall include the removal and proper disposal of the tree guying, staking, and bracing materials as described in these specifications J. Protection

1. During landscape work, store materials and equipment where directed by the Owner

The Contractor shall provide safeguards for the protection of workmen and others on, about, or adjacent to the work, as required under the parameters of the Occupational Safety and Health Administration (O.S.H.A.) standards. 2. The Contractor shall protect the Owner's and adjacent property from damage.

3. The Contractor shall protect the landscape work and materials from damage due

of same shall be paid by the Contractor who is responsible for the damage.

to landscape operations. Maintain protection during installation and maintenance 4. The Contractor shall provide protection (tree barricades) for all existing trees and

# palms as specified

- 1. The Contractor shall repair all damage caused by his operations to other materials, property, or trades to a level equal in quality to the existing condition
- 2. The Contractor shall be held responsible for all damage done by his work or employees to other materials or trades' work. Patching and replacement of damaged work may be done by others, at the Owner's direction, but the cost

- Stolen Plant Materials and Other Materials Pertinent to the Project Installation
- 1. The Landscape Contractor shall be responsible for the entire replacement of plant materials and other materials pertinent to the project installation that are missing or stolen prior to the first final landscape inspection.
- 2. Plant materials that have been documented as installed and accepted by a landscape inspection performed by the Owner or the Owner's
- The Landscape Contractor shall be responsible for retaining the proper insurance coverage to protect against theft of plant materials and other materials pertinent to the project installation.

### 3.03 MAINTENANCE

A. The Contractor shall maintain all plant materials in a first class condition from the beginning of landscape construction until final acceptance. Cost of maintenace until final acceptance to be included in bid, no change orders for maintenace will be accepted.

- Maintenance shall include, but not be limited to, watering of turf and planting beds, mowing, fertilizing, cultivation, weeding, pruning, disease and pest control replacement of dead materials, straightening, turf or planter settlement corrections, replacement of rejected materials, staking and guying repair and tightening, wash-out repairs and regarding, and any other procedures consistent with the good horticultural practice necessary to insure normal, vigorous and healthy growth of all work under the Contract. Mowing shall be consistent with the ecommended height per the University of Florida Cooperative Extension Service.
- Within the warranty period, the Contractor shall notify the Owner of any maintenance practices being followed or omitted which would be detrimental
- to the healthy vigorous growth of the landscape. 3. The Contractor shall be responsible for the final watering of not less than

one inch of water for all planted materials before leaving the site.

# 3.04 INSPECTION, REJECTION, AND ACCEPTANCE

Upon completion of the installation, the Contractor will notify the Owner or the Owner's Representative that the job is ready for inspection. Within 15 days of notification, the installation will be inspected by the Landscape Architect. A written

and/or graphic inspection report will be sent to the Owner and/or Landscape

2. If the Landscape Contractor's work is not completed and a final landscape inspection is requested by the Landscape Contractor, then all subsequent landscape inspections after the first inspection, including written and/or graphic inspection reports shall be charged to the Landscape Contractor at a rate of \$80.00 per hour. The Landscape Contractor shall be responsible for compensation to the Landscape Architect for all final inspections

and reports under the above—mentioned circumstances.

### Rejection and Replacement

- The Landscape Architect shall be the final judge as to the suitability and acceptability of any part of the work. Plant material will be rejected if it does
- not meet the requirements set forth in the Plans and Specifications. Replace any rejected materials immediately or not later than 20 days, and notify the Landscape Architect in writing that the correction has been made.

After replacement of rejected plant material (if any) have been made, and

2. Upon final acceptance, the Owner assumes responsibility for maintenance within

the terms of the Contract. Acceptance will in no way invalidate the

### completion of all other correction items, the Owner or Owner's Representative will accept the project in writing

### 3. The Contractor's warranty period will begin after final acceptance of the project by the Owner.

Contractor's warranty period.

shall be given the equal amount of warranty.

END OF SECTION

- A. If evidence exists of any lien or claim arising out of or in connection with default in performance of this Contract, the Owner shall have the right to retain any payment sufficient to discharge such claim and all costs in connection with discharging such
- Where the Specifications call for any stipulated item or an "approved equivalent", or in words to that effect, the Contractor shall indicate the price of the type and species specified in the proposal, giving the price to be added or deducted from his contract price. The final selection rests with the Owner or Owner's Representative.

Where plants installed do not meet Specifications, the Owner reserves the right to

compensate for the value not received from the under-specified plant materials.

request plant replacement or an appropriate deduction from the Contract amount to

No additional compensation will be made to the Contractor for plants installed that

# exceed Specifications.

The Contractor shall warranty all trees furnished under this contract for a period of 1 year and all shrubs for a period of 4 months. Material which is either dead or in poor health during this period or at completion will be replaced at no charge to the wner. Should any of the plant materials show 50% or more defoliation d Warranty Period, due to the Contractor's use of poor quality or improper materials or workmanship, the Contractor, upon notice shall replace without delay same with no additional cost to the Owner. Should any plant require replacing, the new plant

A. The quantity of Landscape for which payment will be made shall be the

measured shall be as listed in the Bid Schedule. If a payment item fo

Landscape is not specifically included in the Bid Schedule, the quantity for which payment will be made shall be the quantity required to complete

actual number of units measured in place and accepted. The units

### 4.00 - MEASUREMENT AND PAYMENT 4.01 MEASUREMENT

4.02 PAYMENT A. Payment for Landscape shall be made at the prices stated in the Bid Schedule If a payment item for Landscape is not specifically included in the Bid Schedule. payment for the work specified in this Section shall be included in the several unit and lump sum prices for all applicable items of work.



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**CLEARVIEW LAND DESIGN** 1213 E. 6TH AVE. TAMPA | FL 813-223-3919

BALLENGER AND COMPANY

IRRIGATION DESIGN

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727-620-1082

PINELLAS PARK | FL

CIVIL ENGINEER

OWNER

NNP-BEXLEY, LLC 777 S. HARBOUR ISLAND BLVD. STE 320 TAMPA I FL 813-620-3555

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FL Registration: LC26000471

CONSTRUCTION DOCS

ISSUE DATE 1 CODE MIN. PERMIT SET | 01-14-15 2 CODE MIN. PERMIT SET REV 04-27-15 3 REVIEW SET 02-01-16 4 BID SET 04-28-16

DATE

14008

GW / JB

HAB / JB

CHECKED BY SCALE: N/A

SHEET INFORMATION

NO. COMMENTS

JOB NUMBER

DRAWN BY

**REVISIONS** 

**SPECIFICATIONS** 

LANDSCAPE

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<u>B</u> <u>C</u> <u>C</u> SIGNATURE & SEAL