

2025-BRAA-008 Landscaping Services

Addendum #1

8/8/25

- 1. Please provide a plantings list or pricing document: Please see attached species list and landscape plans for BRAA facilities with species and number of plantings as well as irrigation layout. Pricing for regular ongoing services shall be listed as monthly and any additional such as irrigation repairs or replacement of trees shall be listed as individual items or per man hour.**
- 2. Does this require a bid bond: This is a Request for Proposals so no bond is required at the time of bid submission.**
- 3. What is the estimated budget: We will entertain any proposals received.**
- 4. Can you provide the previous bid tabulation: There was no tabulation with the previous bid, just proposals received.**

Pricing List

Species	Price Per Unit or Sq Ft.	Labor	Per Hr
Geiger Tree		Irrigation Tech	
Cassia		Irrigation Supervisor	
Spindle Palm		Landscape Tech	
Solitaire Palm		Landscape Supervisor	
Pygmy Date Palm			
Foxtail Palm			
King Alexander Palm			
Sylvester Palm			
Sable Palm			
Coontie			
Fakahatchee Grass			
Crown of Thorns			
Bird of Paradise			
Lantana			
Bahia Sod			
St. Augustine Sod			
Hawthorne			
Ficus			
Buttonwood			
Misc Annuals			
Misc Perinials			
Cypress Mulch			
Eucalyptus Mulch			

BOCA RATON AIRPORT (UNPLATTED)

LIMITS OF RETENTION PARCEL
(CRB 22474 PC. 885)

**Conceptual
Design
Group, Inc.**
Landscape Architect - Site Planning
300 East Ocean Boulevard, Suite 1304
Boca Raton, Florida 33431
(754) 344-2244
CD-00000000



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& ASSOCIATES**

RICONDO & ASSOCIATES, INC.
1050 N.W. 31st COURT,
SUITE 103
MIAMI, FL 33150-1011
(772) 865-0727
(772) 865-0728

SCHENKELSHULTZ
ARCHITECTURE GROUP

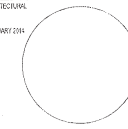
200 EAST ROBINSON STREET
SUITE 300
ORLANDO, FL 32801-3322
voice (407) 472-3322
fax (407) 472-3333
vschenkelshultz.com
SSA No. - AAC0000937

SSA PROJECT NO.: 1303727

**BOCA RATON
AIRPORT
AUTHORITY**

ARCHITECTURE

FEBRUARY 2014



No.	Description	Date
1	Revised plan of administration	3-15-2015
2	Revised plan of construction	1-15-2015
3	AS-BUILT	4-22-16

**ADMINISTRATION
BUILDING**

Irrigation Plan

DATE: JUNE 2014
PROJECT NO.: 1303727
R.A. PROJECT NO.: 11-44-0734
DESIGNED BY: LVS
DRAWN BY: LVS
CHECKED BY: JWS

**SHEET
LI001**

ISSUED FOR CONSTRUCTION

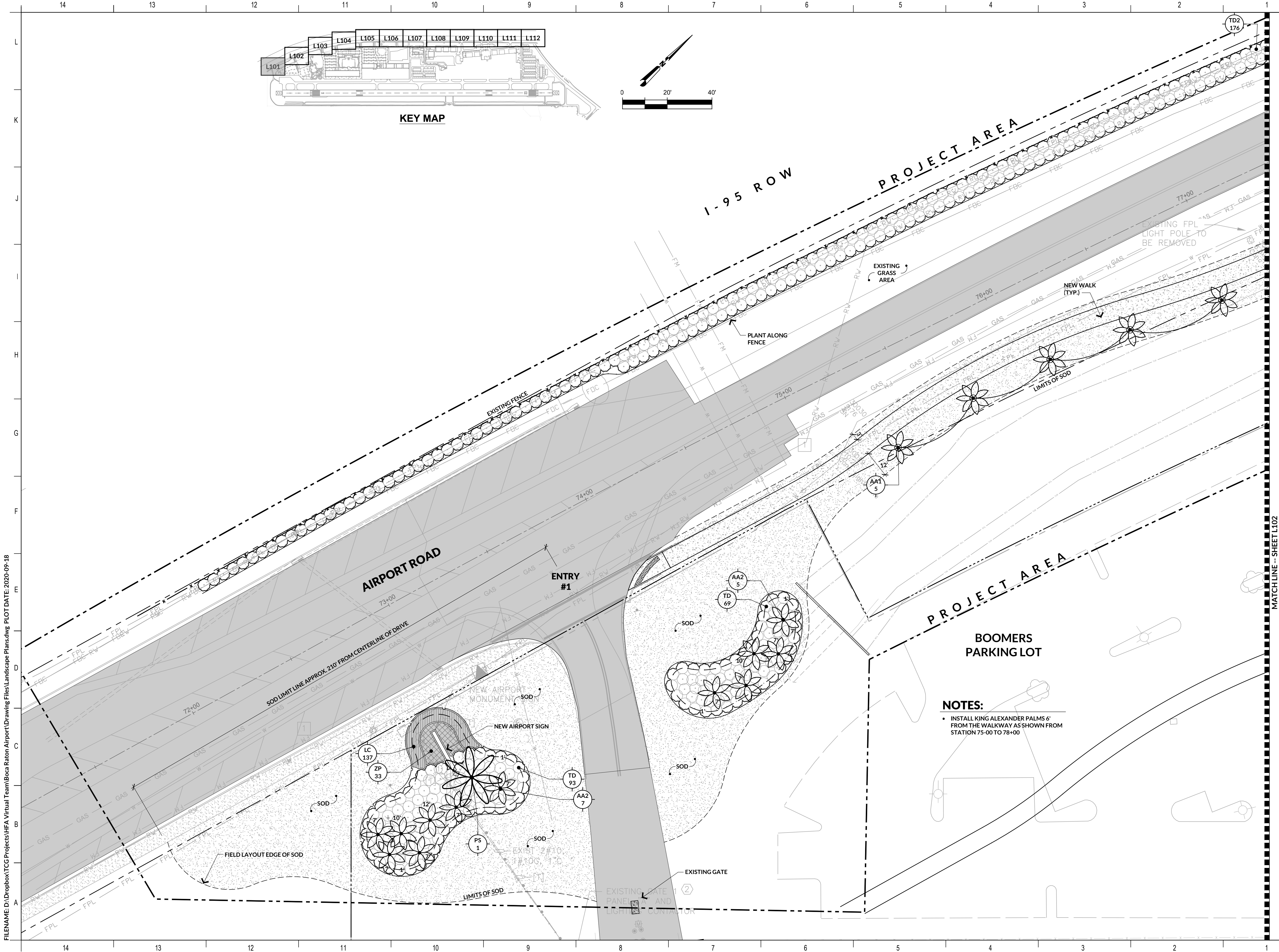
Irrigation As-Built 1/25/2016

Planning and Zoning Compliance Review:
The estimated water use of the irrigation system is based on once the plants are established. The system
uses 4,000 gallons per run cycle and based on two run cycles per week the weekly use is 8,000 gallons.
The system is not operated daily, but converting the weekly use to daily use would be 1,154 gallons per
day (8,000 gpd / 7 days = 1,154 gpd).

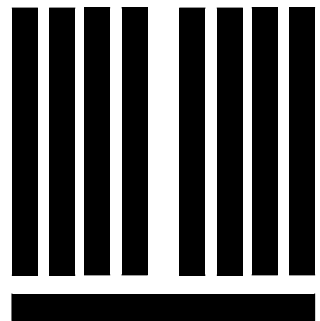
AS-BUILTS
SUBMITTED BY:
MBR CONSTRUCTION, INC.
(954) 486-8404

INITIALS: JWS



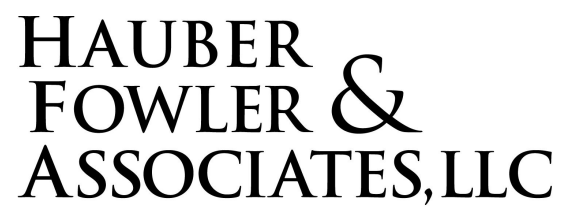


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DEVELOPMENT DESIGN ■ LAND PLANNING
SITE DESIGN ■ LANDSCAPE ARCHITECTURE



Sharon Kay Hauber, ASLA, PLA
License Number 0001211

Comm No.:	Commission No.
R & A Project No.	17-04-0988
drawn by:	RJG
design by:	SKH
checked by:	SKH
AID Project No.	RIC 18038

Revision Schedule		
No.	Description	Date
1	RESPONSE TO PWR COMMENTS	9/18/20

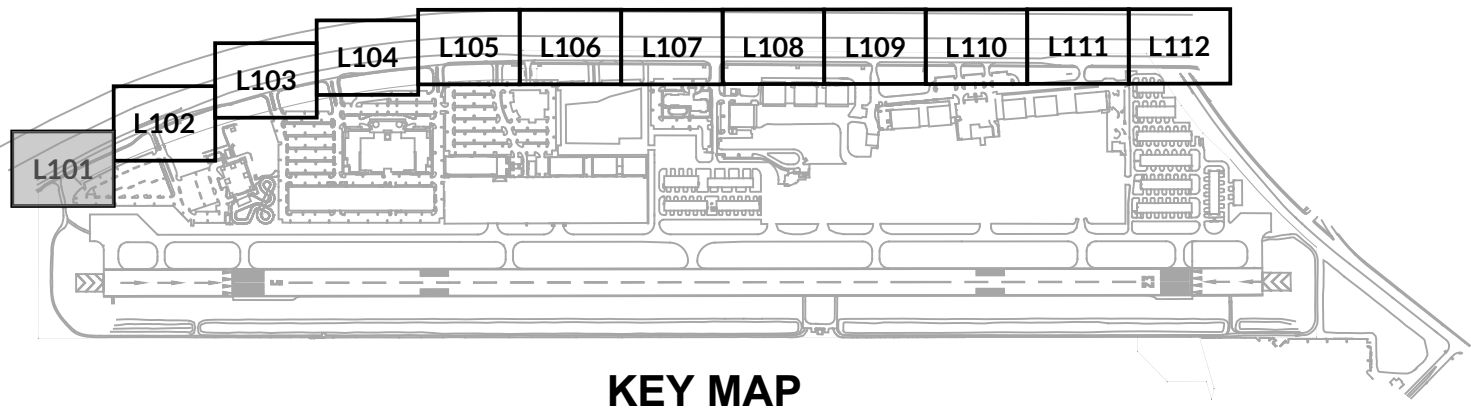
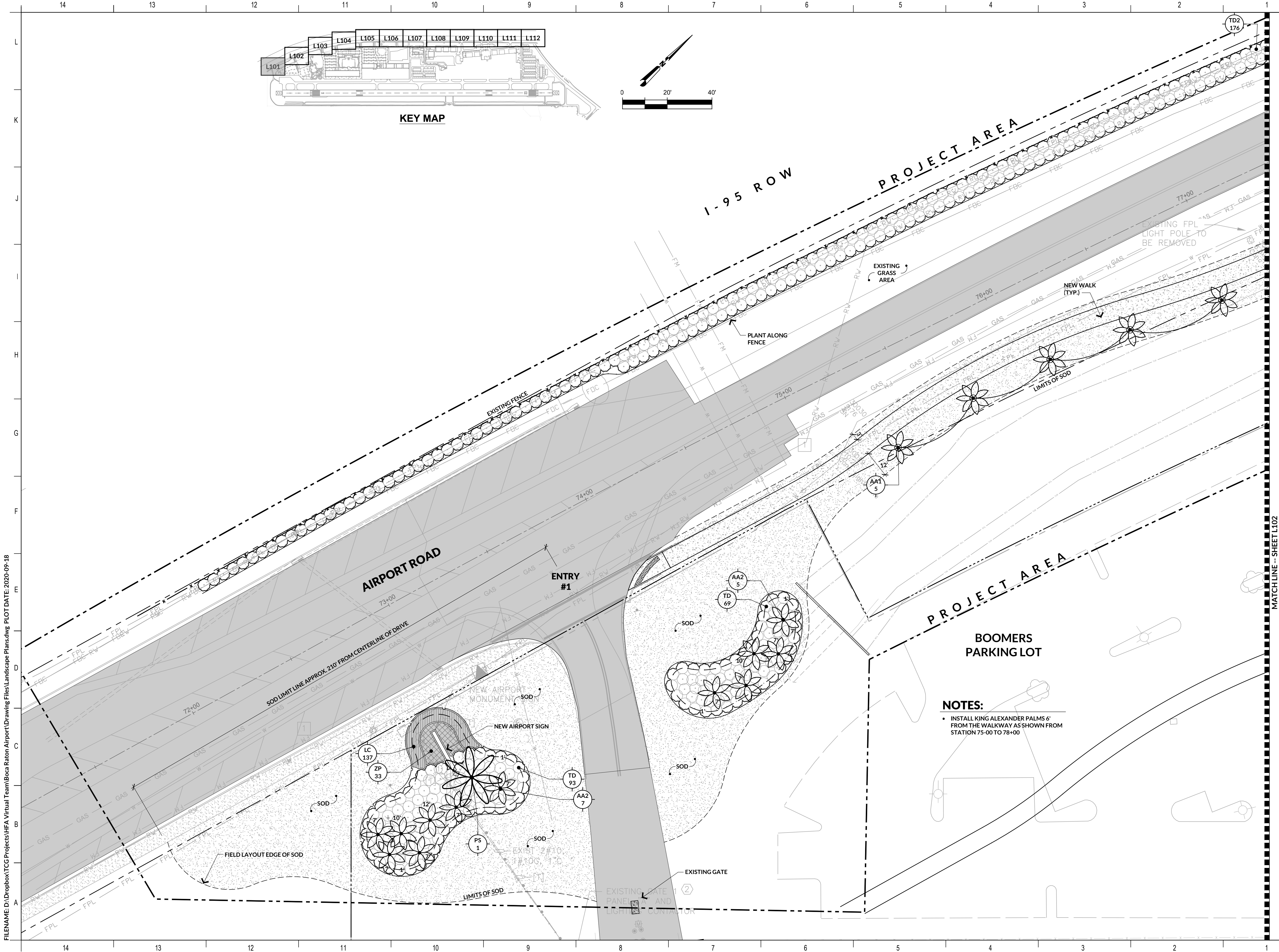
AIRPORT ROAD IMPROVEMENTS

BOCA RATON AIRPORT
BOCA RATON, FL 33431

LANDSCAPE PLAN

L101

Submital: BID DOCUMENTS
Issue Date: OCTOBER 18, 2020



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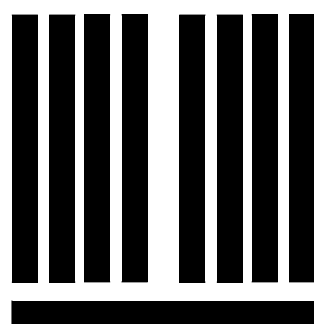
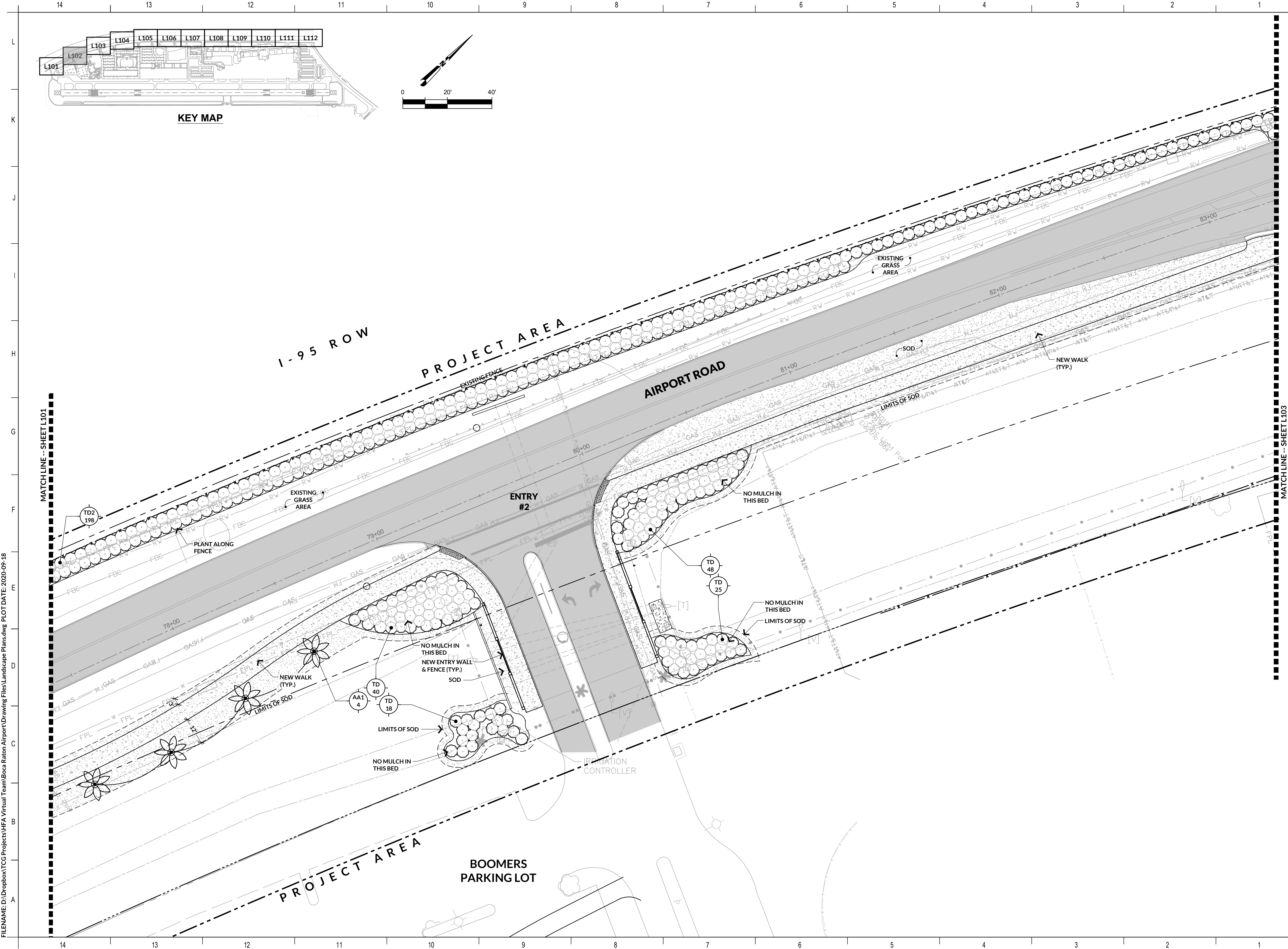
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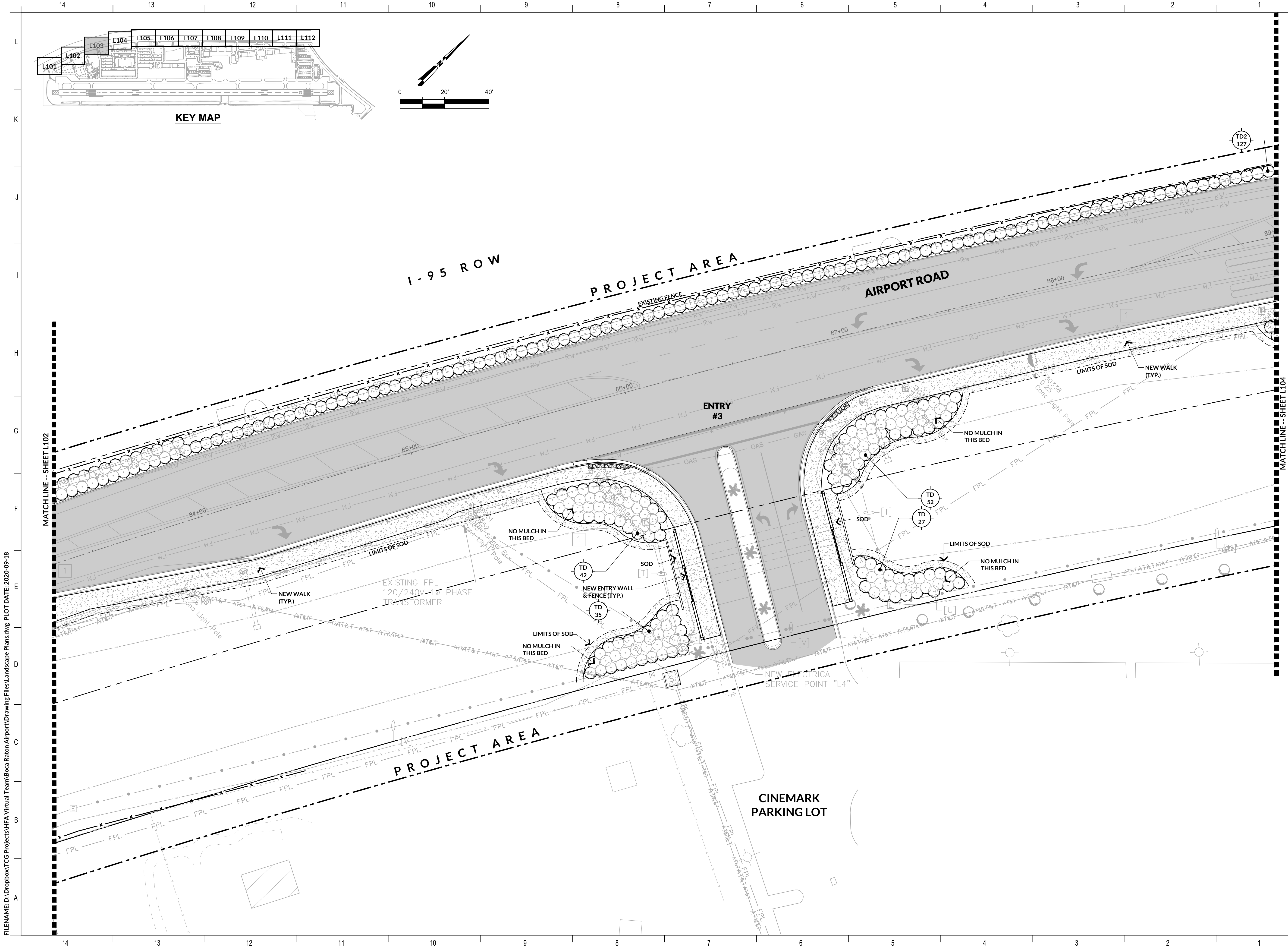
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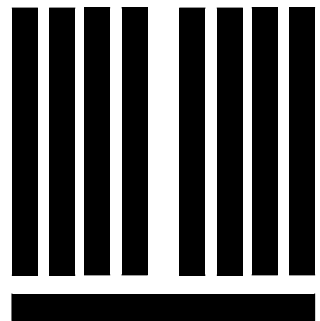
LANDSCAPE PLAN

L102

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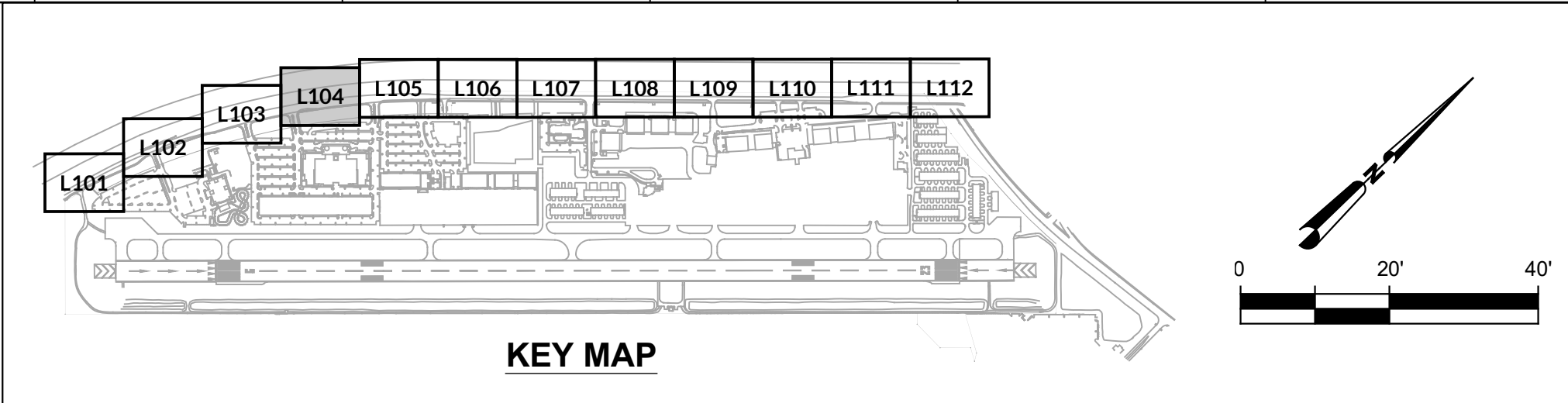
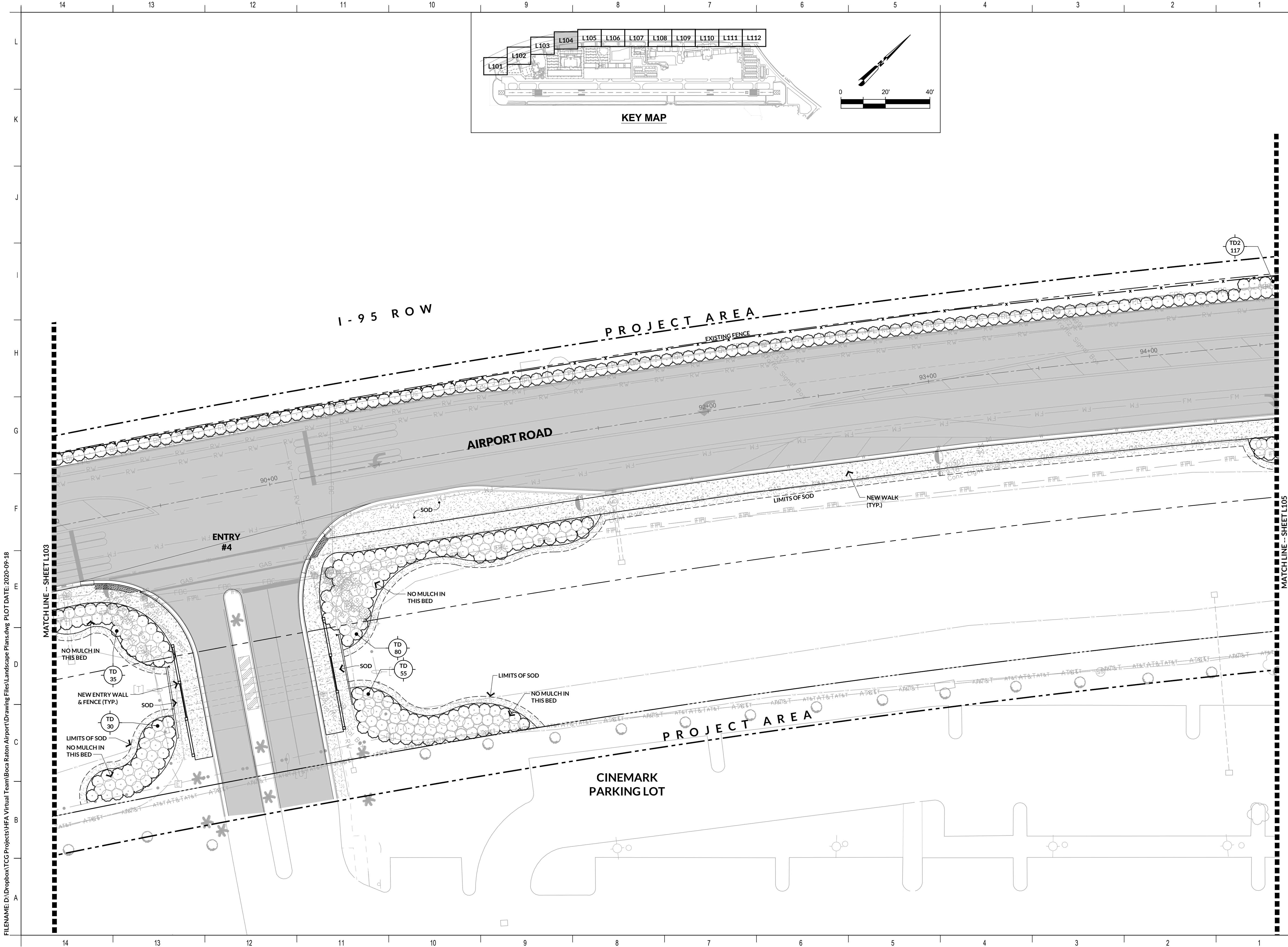
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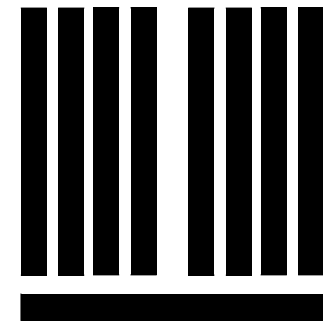
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L103

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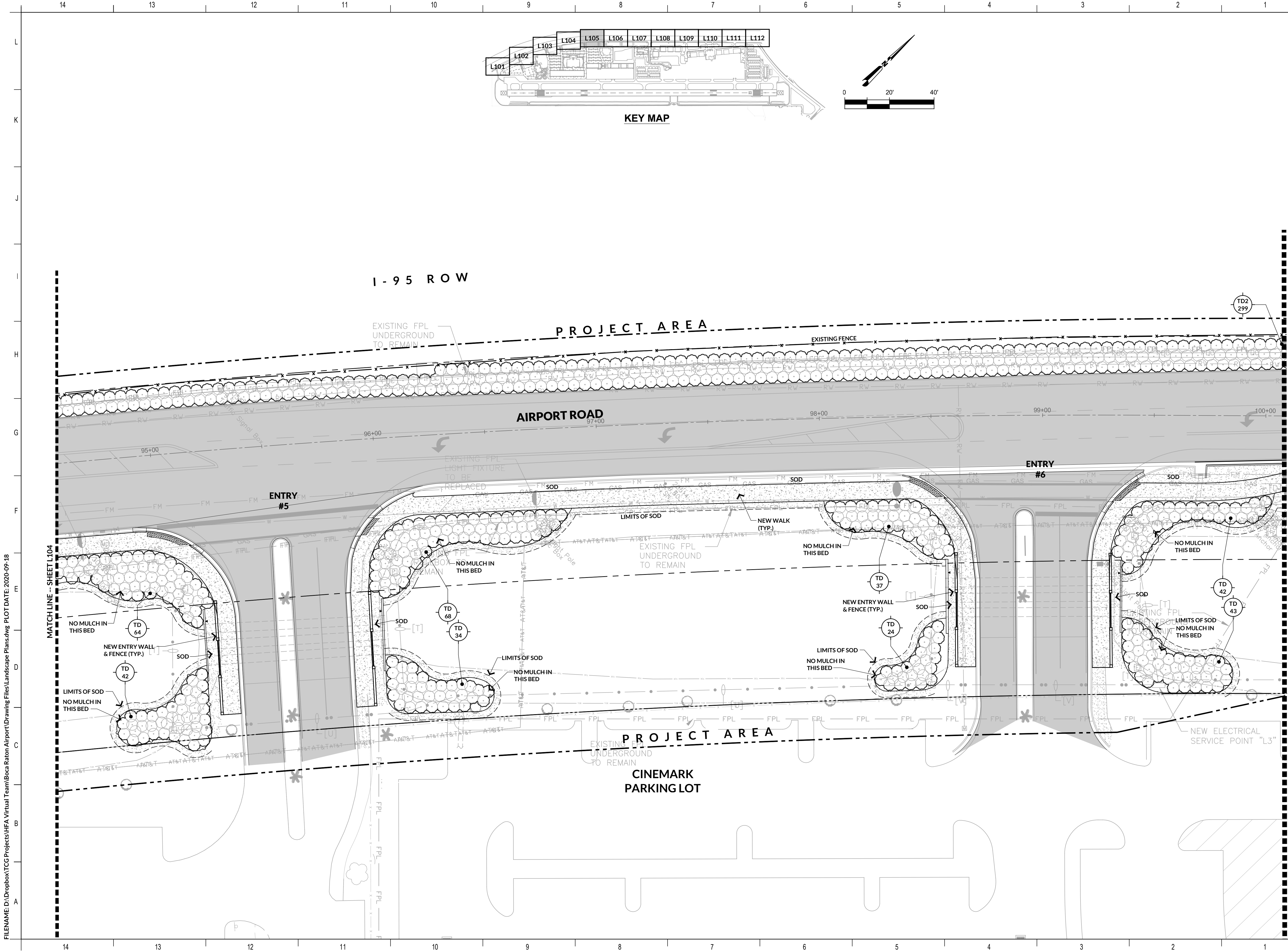
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LANDSCAPE PLAN

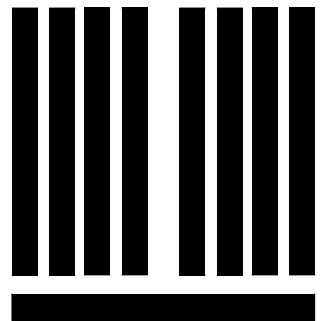
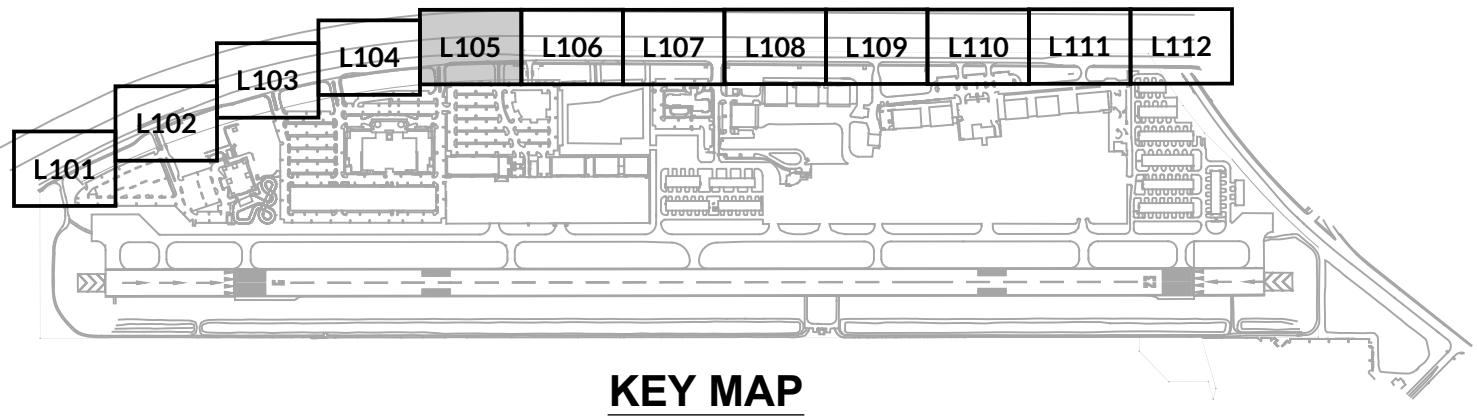
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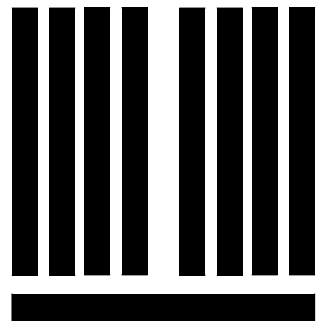
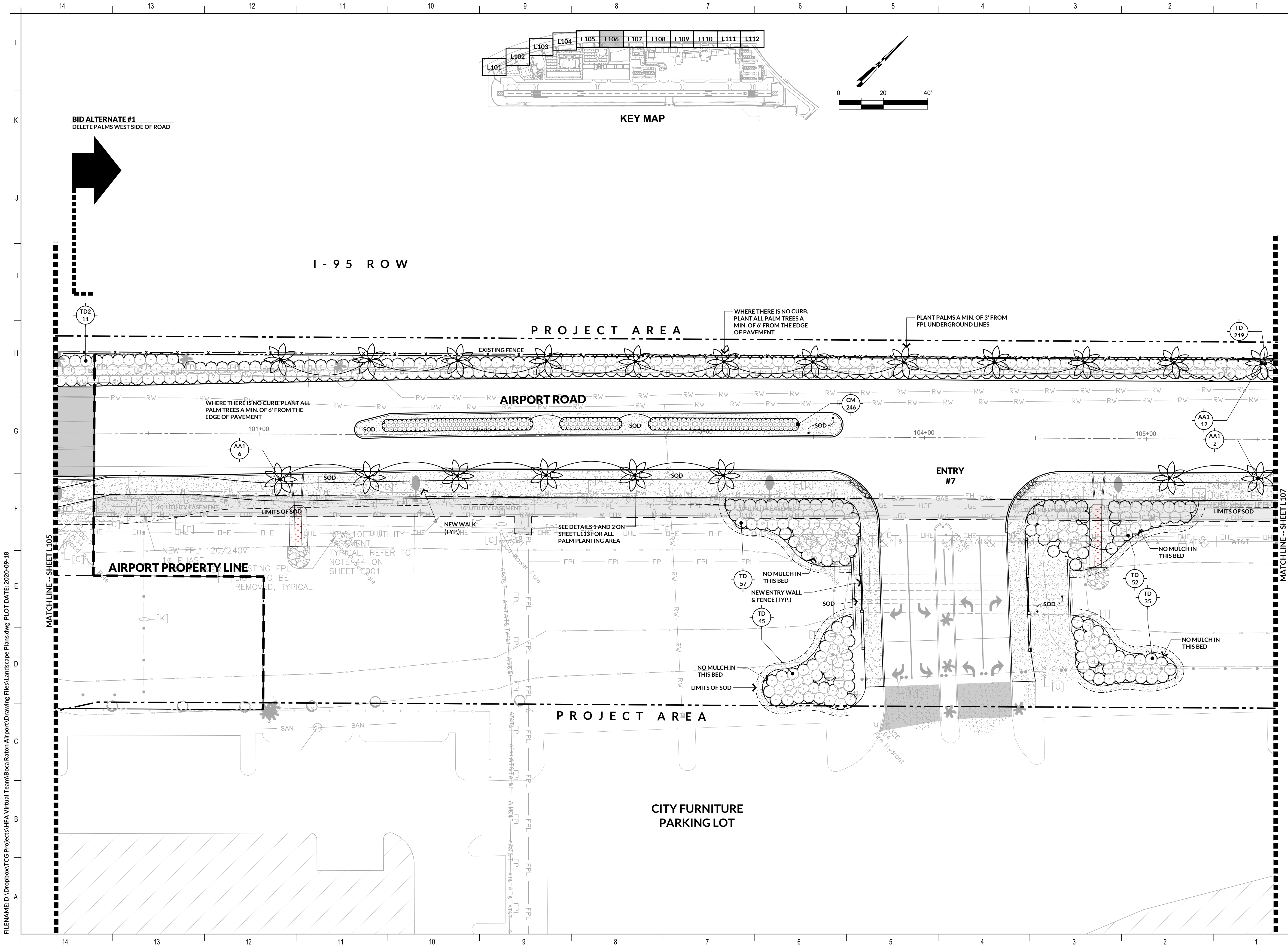
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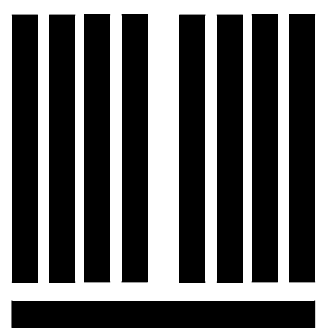
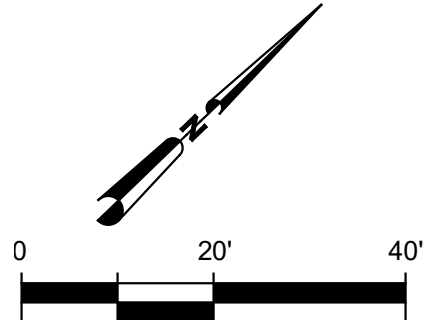
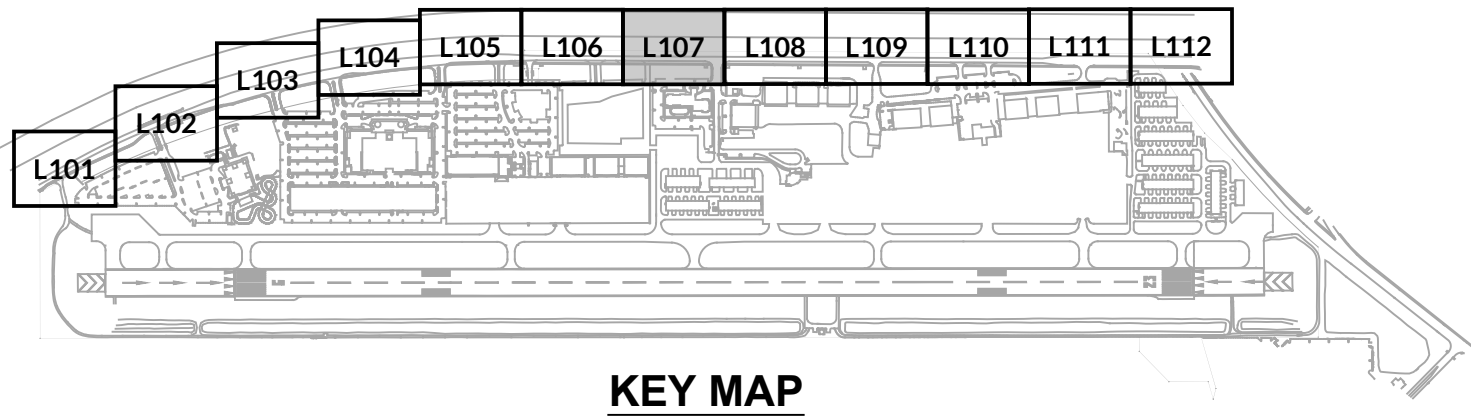
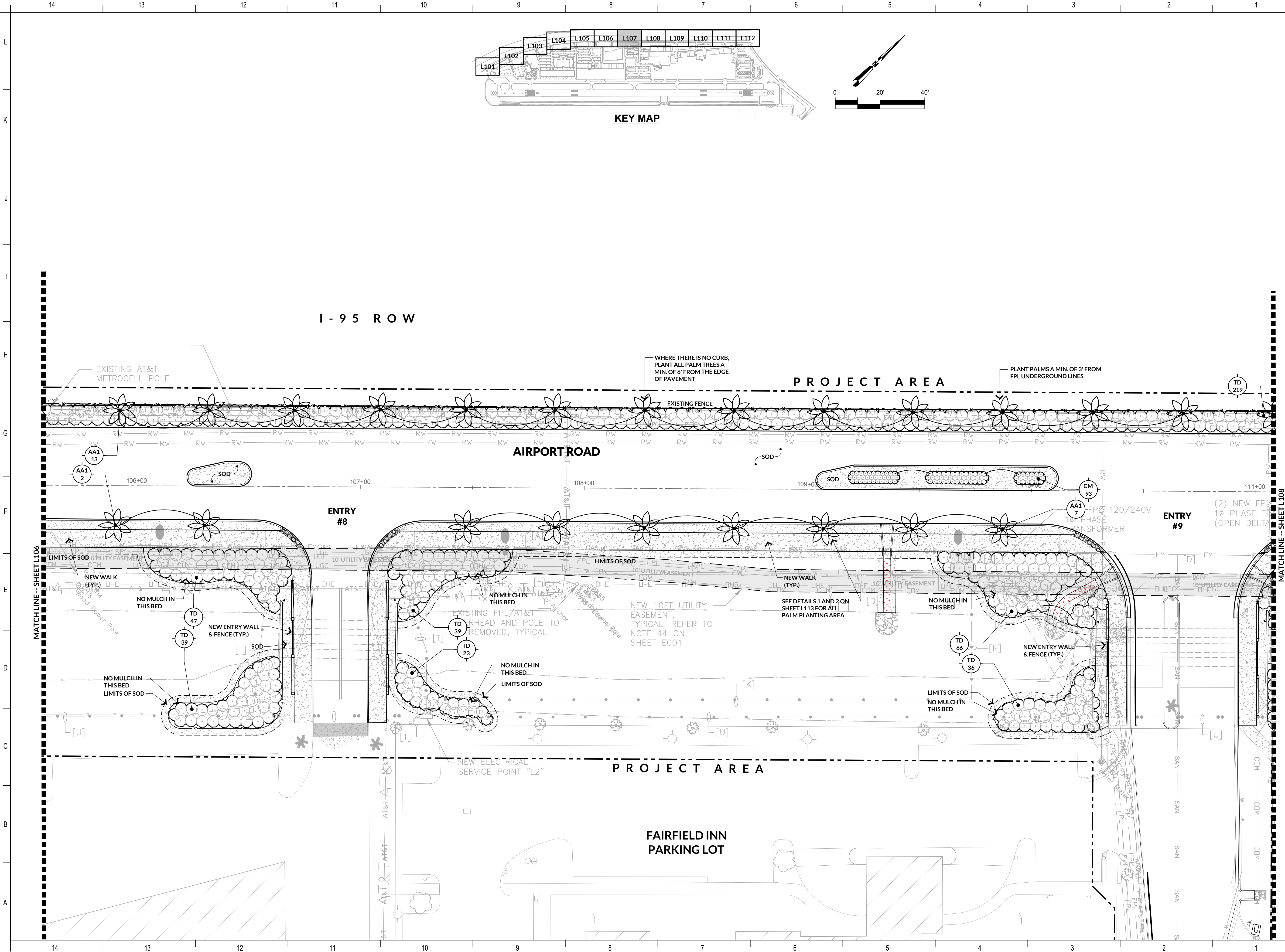
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L106

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BID DOCUMENTS OCTOBER 18, 2020

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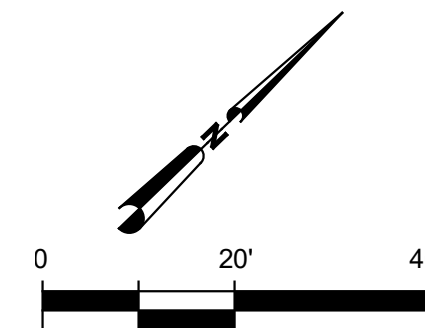
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LANDSCAPE PLAN

L107

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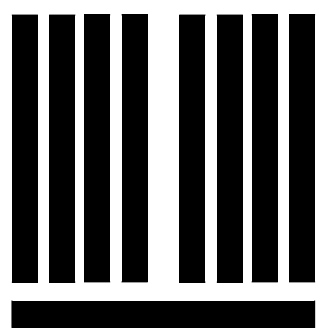
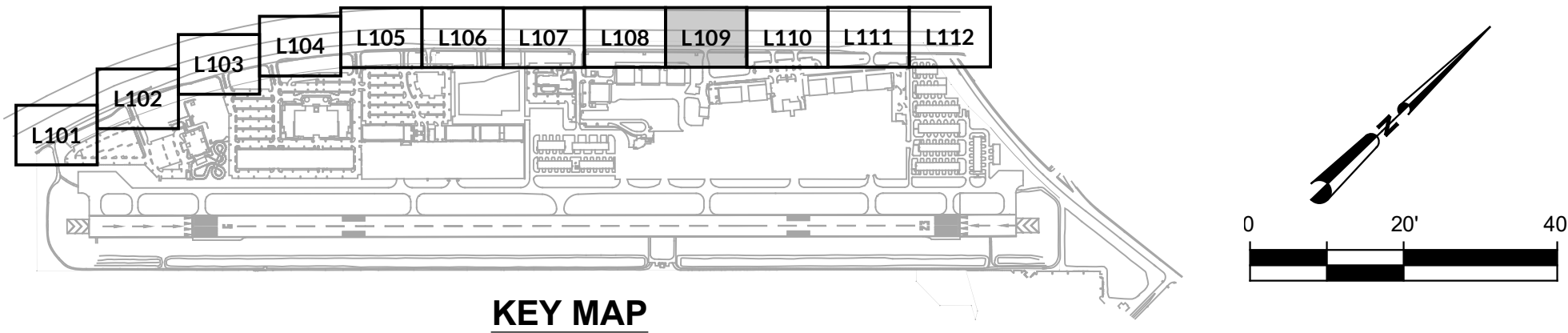
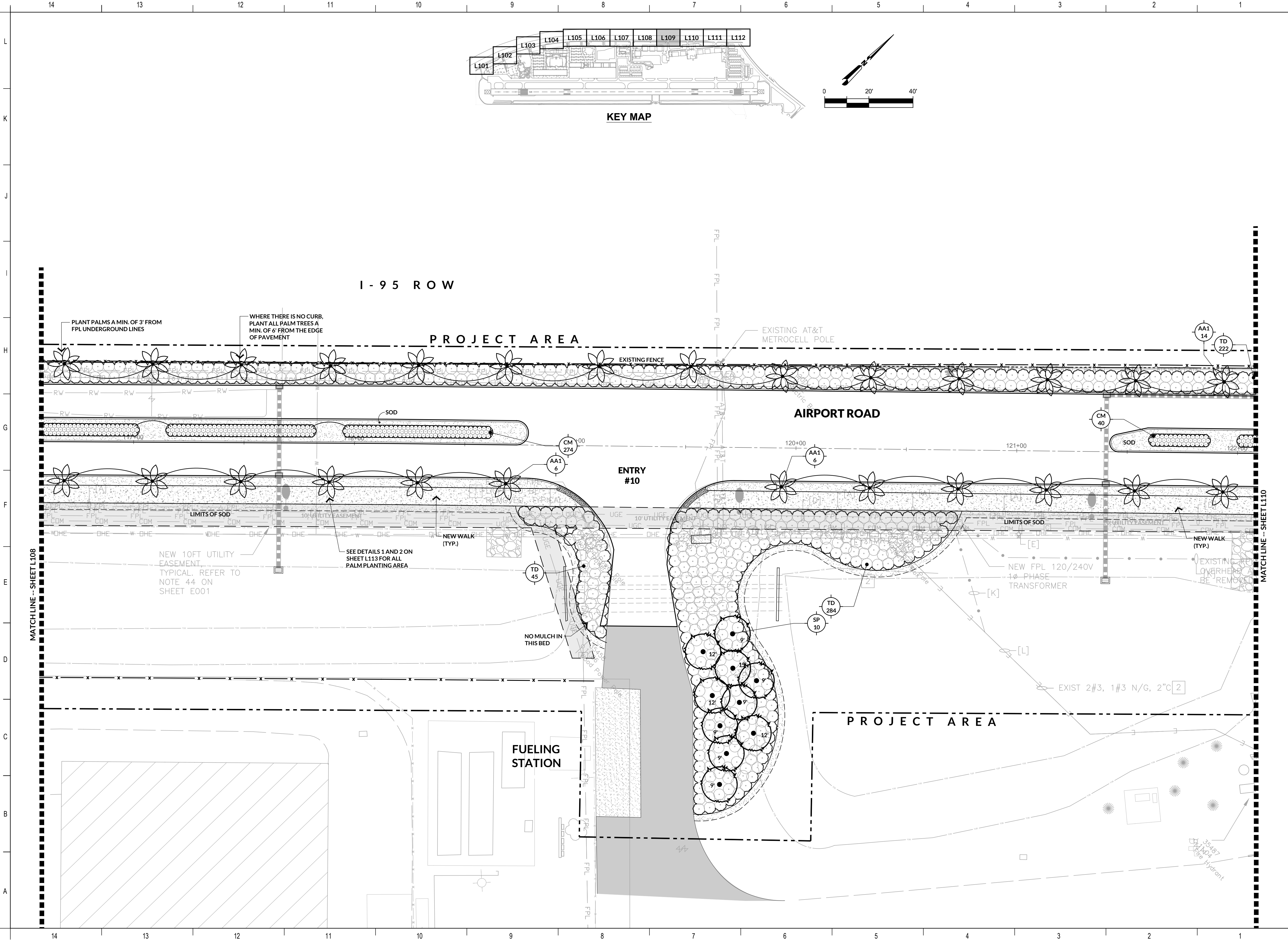
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L108

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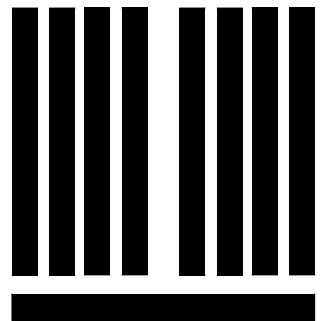
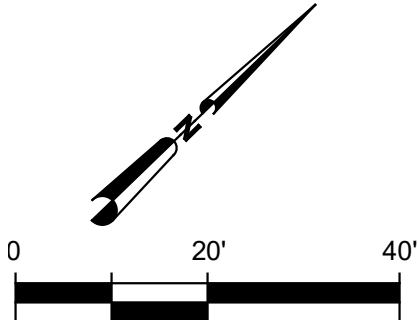
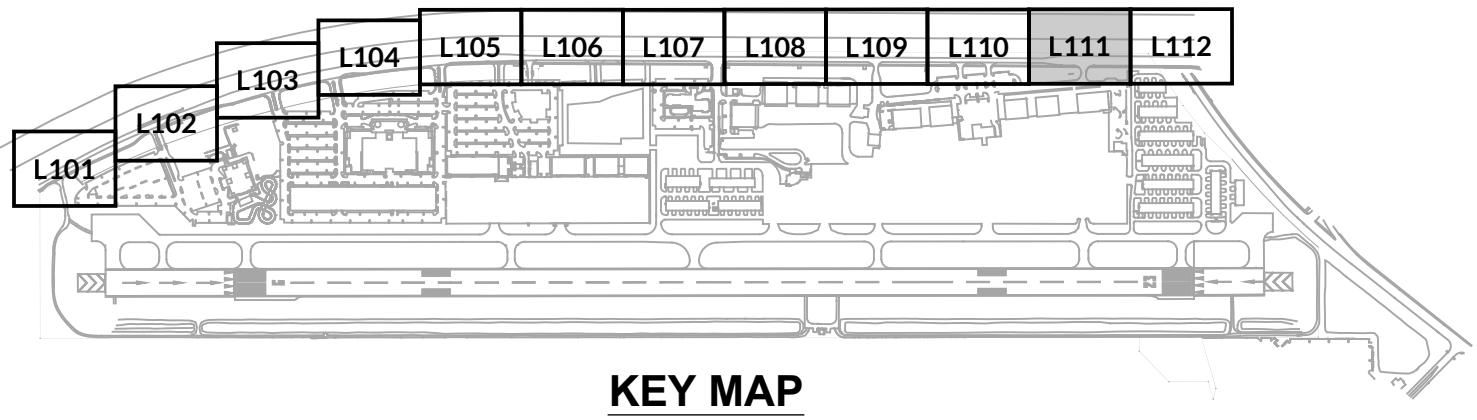
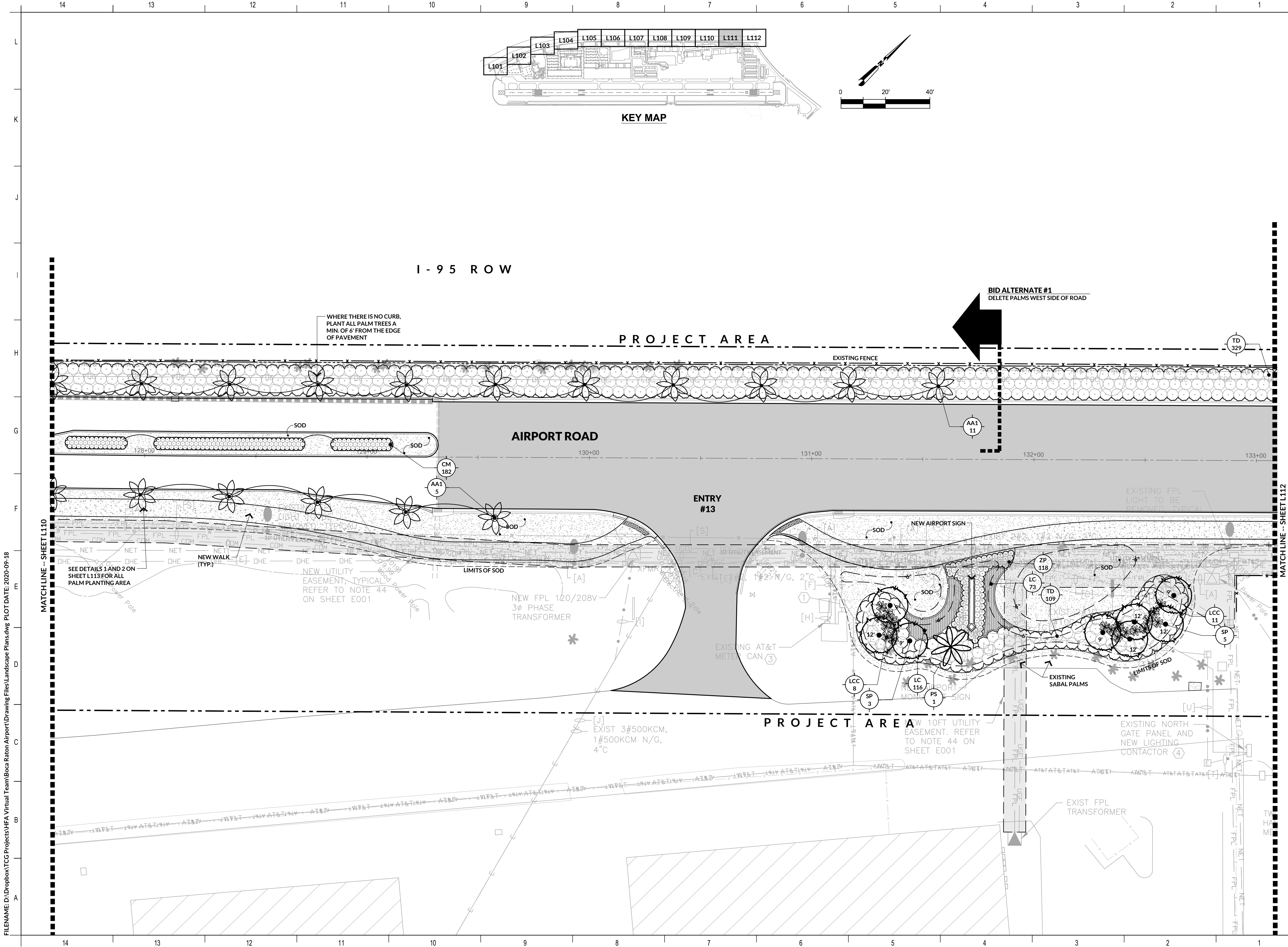
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L109

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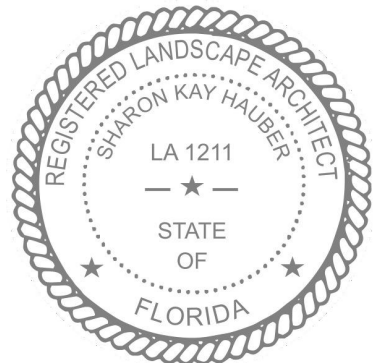


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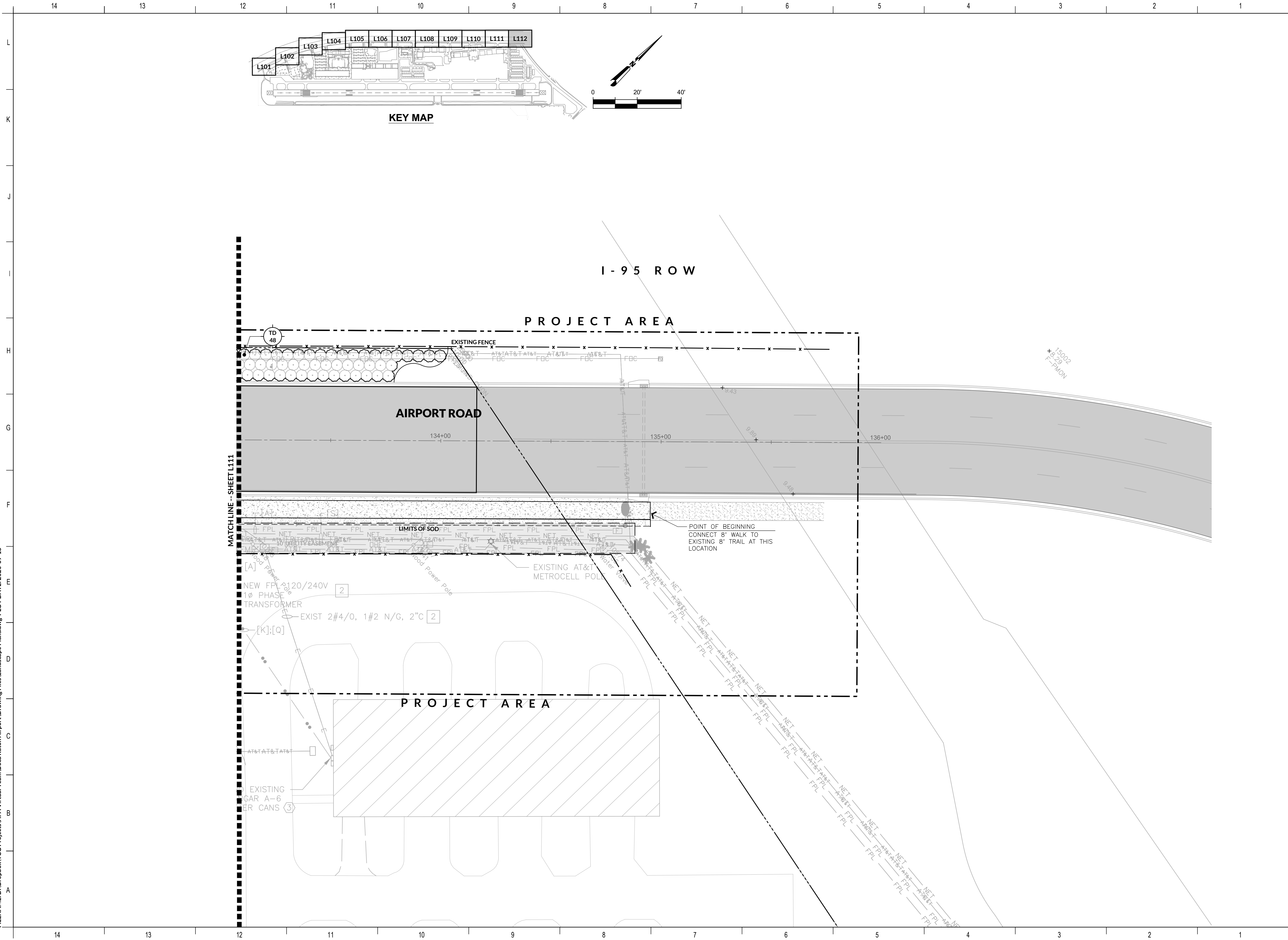
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L111

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SYM	QTY	BOTANICAL	COMMON	OC	SIZE	COMMENTS
PALMS						
AA1	143	ARCHONTOPHOENIX ALEXANDRAE	KING ALEXANDER PALM	as shown	SINGLE STRAIGHT TRUNK; 10' C.T.; 6' GREY WOOD; MATCHED FOR STREET TREES	SEE PLAN FOR CLEAR TRK. (C.T.) SPEC.
AA2	12	ARCHONTOPHOENIX ALEXANDRAE	KING ALEXANDER PALM	as shown	SINGLE STRAIGHT TRUNK; 6' GREY WOOD; STAGGERED HEIGHTS 7' C.T. (9) - 3' GREY WOOD 10' C.T. (2) - 6' GREY WOOD 12' C.T. (1) - 8' GREY WOOD	SEE PLAN FOR CLEAR TRK. (C.T.) SPEC.
LCC	19	LIVISTONIA CHINENSIS	CHINESE FAN PALM	as shown	30"-36" O.A.; FULL PLANT; WELL DEVELOPED PLANT WITH SUCKERS	--
PS	2	PHOENIX SYLVESTRIS	SYLVESTER PALM	as shown	8' CLEAR TRUNK (C.T.); DIAMOND CUT TRUNK; SPECIMENS	--
SP	18	SABAL PALMETTO	CABBAGE PALM OR SABAL PALM	as shown	STRAIGHT CLEAN TRUNK; NO BOOTS; 9' C.T.; 12' C.T.; 15' C.T.	SEE PLAN FOR CLEAR TRK. (C.T.) SPEC.; 9' (10); 12' (7); 15' (1)
SHRUBS						
CM	1469	CARISSA MACROCARPA 'EMERALD BLANKET'	EMERALD BLANKET	24"	3 GAL.; 12"-15" O.A.	--
TD	3475	TRIPSACUM DACTYLOIDES	FAKAHATCHEE GRASS	60"	3 GAL.; FULL POT; GREEN PLANTS	--
TD2	928	TRIPSACUM DACTYLOIDES	FAKAHATCHEE GRASS	60"	3 GAL.; FULL POT; GREEN PLANTS	THESE PLANTS ARE OFF PROPERTY AND MAY NOT BE INSTALLED PENDING AN AGREEMENT WITH FOOT
ZIP	151	ZAMIA FLORIDANA	COONTIE	30"	18"x18"; FULL & BUSHY; 5-7 STEMS	--
GROUND COVERS						
LC	329	LANTANA CAMARA	GOLD	18"	1 GAL.; FULL	--
SOD	90,000	PASPALUM NOTATUM	BAHIA SOD	as shown	SOLID	



1. PLANT QUALITY - ALL PLANT MATERIAL SHALL BE FLORIDA NO. 1, OR BETTER, AS OUTLINED IN FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS, PARTS 1 AND THE CURRENT EDITION, PART II STATE OF FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. PLANT MATERIAL THAT DOES NOT MEET THE QUALITY STANDARDS SHALL BE REJECTED AND THE APPROPRIATE PLANT MATERIAL SHALL BE INSTALLED WITHIN 48 HOURS OF DATE AND TIME THE PLANTS WERE REJECTED.
2. SYLVESTER AND FLORIDA KING ALEXANDER PALM TREES - THE CONTRACTOR MUST SUBMIT PHOTOGRAPHS OF THE SELECTED AND PROPOSED TREES. THE SYLVESTER AND FLORIDA KING ALEXANDER PALM TREES MUST BE MATCHED AND OF THE HIGHEST QUALITY. TRUNKS MUST BE STRAIGHT AND OF THE SAME CHARACTER & COLOR. SYLVESTER PALMS TRUNKS MUST BE DIAMOND CUT.
3. TREE STAKING - SEE THIS SHEET FOR TREE STAKING REQUIREMENTS. ALL TREES SHALL BE STAKED.
4. SOD - NEW SOD LIMIT LINES ARE SHOWN IN APPROXIMATE LOCATIONS TO ESTABLISH AN OVERALL SOD QUANTITY ESTIMATE. SOME AREAS MAY BE DISTURBED DURING CONSTRUCTION NEEDING SOD AND OTHER AREAS MAY NOT.
5. NATIVE GRASSES - THE CONTRACTOR IS TO PREPARE THE NATIVE GRASS AREAS AT EACH ENTRANCE. WHERE THERE IS A SLOPE GREATER THAN 3:1, THE GRASSES SHOULD BE PLANTED INTO THE EXISTING GRASS TO RETAIN THE SLOPE. ALL PLANTS ARE TO BE PLANTED IN A TRIANGULAR PATTERN TO RETAIN GRADE.
6. MULCH - ALL PLANTING BEDS SHALL RECEIVE 3-INCHES OF MINI PINE BARK NUGGETS.
7. CONSTRUCTION COORDINATION - THE PLANTING SHALL BE COORDINATED WITH ALL OTHER CONSTRUCTION.
8. SITE CONDITIONS - THE CONTRACTOR SHALL REVIEW ALL EXISTING CONDITIONS, INCLUDING UTILITIES, EXISTING SOILS, ETC., TO DETERMINE ANY DEFICIENCIES RELATING TO THE PLANTING AND GROWING CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HEALTHY GROWING CONDITIONS OF THE PLANT MATERIAL. LIMEROCK MUST BE REMOVED FROM ALL PLANTING AREAS AND REPLACED WITH NATIVE SOIL MATERIAL THAT SHALL CREATE A HEALTHY GROWING CONDITION FOR ALL PLANTS.
9. PLANTING SOIL - PLANTING AREAS SHALL HAVE AT LEAST 12-INCHES OF SUITABLE SOIL FOR TREE PLANTING AND SHALL BE VOID OF CONSTRUCTION DEBRIS.
10. FINISHED GRADE - THE CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING THE FINISHED GRADE BEFORE PLANTING. FINISHED GRADE SHALL BE BAKED AND SETTLED. NO AIR POCKETS, LOOSE GRADE, OR DEBRIS CAN BE LEFT IN THE PLANTING AREAS.
11. PLANT SUBSTITUTIONS - ANY CONDITIONS THAT WARRANT A PLANT SUBSTITUTION SHALL BE REPORTED TO THE LANDSCAPE ARCHITECT. IF THE CONTRACTOR IS AWARE OF THE LACK OF AVAILABILITY OF ANY OF THE SPECIFIED PLANTS, THEY MUST NOTE THAT LACK OF AVAILABILITY AS A BID QUALIFICATION.
12. IRRIGATION - THE AIRPORT SIGN AREAS AND THE PALM TREES SHALL BE IRRIGATED WITH AN AUTOMATIC IRRIGATION SYSTEM. THE IRRIGATION SYSTEM MUST BE SCHEDULED WITH THE LANDSCAPE INSTALLATION. WATER MUST BE PROVIDED TO THE NEW LANDSCAPE AND WATER IS THE RESPONSIBILITY OF THE CONTRACTOR.
13. WARRANTY PERIOD - ALL TREES (SYLVESTER, AND KING ALEXANDER PALM TREES) SHALL INCLUDE A WARRANTY OF ONE YEAR FROM THE TIME OF FINAL ACCEPTANCE. ALL SHRUBS, GROUNDCOVER, AND ACCENTS SHALL INCLUDE A WARRANTY OF 6-MONTHS FROM THE TIME OF FINAL ACCEPTANCE.
14. WARRANTY PERIOD REPORTS - THE CONTRACTOR IS RESPONSIBLE FOR VISITS TO THE SITE TO MONITOR THE HEALTH OF THE PLANTINGS DURING THE WARRANTY PERIOD. THE HEALTH OF THE PLANTINGS DURING THE WARRANTY PERIOD, INCLUDING FERTILIZATION AND PEST CONTROL, ARE THE RESPONSIBILITY OF THE CONTRACTOR. IF THE PLANTS DIE, OR FAIL IN ANY WAY, THE CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT UNLESS THE PROBLEMS WITH THE PLANTINGS HAVE BEEN DOCUMENTED TO BE CAUSED BY EVENTS UNRELATED TO THE WORK OF THE CONTRACTOR. AT THE END OF THE WARRANTY PERIOD, THE OWNER'S REPRESENTATIVE AND THE CONTRACTOR SHALL REVIEW THE CONDITION OF THE LANDSCAPE. ANY PLANT MATERIAL THAT HAS FAILED DURING THE WARRANTY PERIOD SHALL BE REPLACED WITHIN 48 HOURS OF THE DATE OF THE MEETING WITH THE OWNER'S REPRESENTATIVE. THE CONTRACTOR IS RESPONSIBLE FOR THE DOCUMENTATION OF THAT MEETING.
15. REPLACEMENTS DURING THE WARRANTY PERIOD - IF ANY OF THE PLANTS DIE DURING THE WARRANTY PERIOD, THEY MUST BE REPLACED WITH PLANT MATERIAL THAT MEET THE ORIGINAL SPECIFICATIONS WITHIN FIVE (5) BUSINESS DAYS OF NOTICE FROM THE OWNER.
16. TECHNICAL SPECIFICATIONS - SEE THE WRITTEN TECHNICAL SPECIFICATIONS FOR ALL REQUIREMENTS FOR THE LANDSCAPE AND IRRIGATION INSTALLATION.

REDUCE KING ALEXANDER PALM QUANTITY TO 65 BY DELETING 77 PALMS ALONG WEST SIDE OF ROAD



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DEVELOPMENT DESIGN ■ LAND PLANNING
SITE DESIGN ■ LANDSCAPE ARCHITECTURE



Sharon Kay Hauber, ASLA, PLA
License Number 0001211

Comm No.:	Commission No.
R & A Project No.	17-04-0988
drawn by:	RJG
design by:	SKH
checked by:	SKH
AID Project No.	RIC 18038

Revision Schedule		
No.	Description	Date
1	RESPONSE TO PWR COMMENTS	9/18/20

AIRPORT ROAD IMPROVEMENTS

BOCA RATON AIRPORT
BOCA RATON, FL 33431

LANDSCAPE PLAN

L113

Submittal: BID DOCUMENTS Issue Date: OCTOBER 18, 2020



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SCHENKELSHULTZ
AAA ARCHITECTURE

- 200 EAST ROBINSON STREET, SUITE 300
 - ORLANDO, FL 32801
 voice 407.872.3322
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3810 NORTHDALE BLVD, SUITE 170
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OFFICE: 813-374-2200

Comm No.:	Commission No.
FDOT Project No.:	
R & A Project No.	
drawn by:	JIS
design by:	JWS
checked by:	JWS

Revision Schedule		
No.	Description	Date

CUSTOMS AND
BORDER PROTECTION
FACILITY

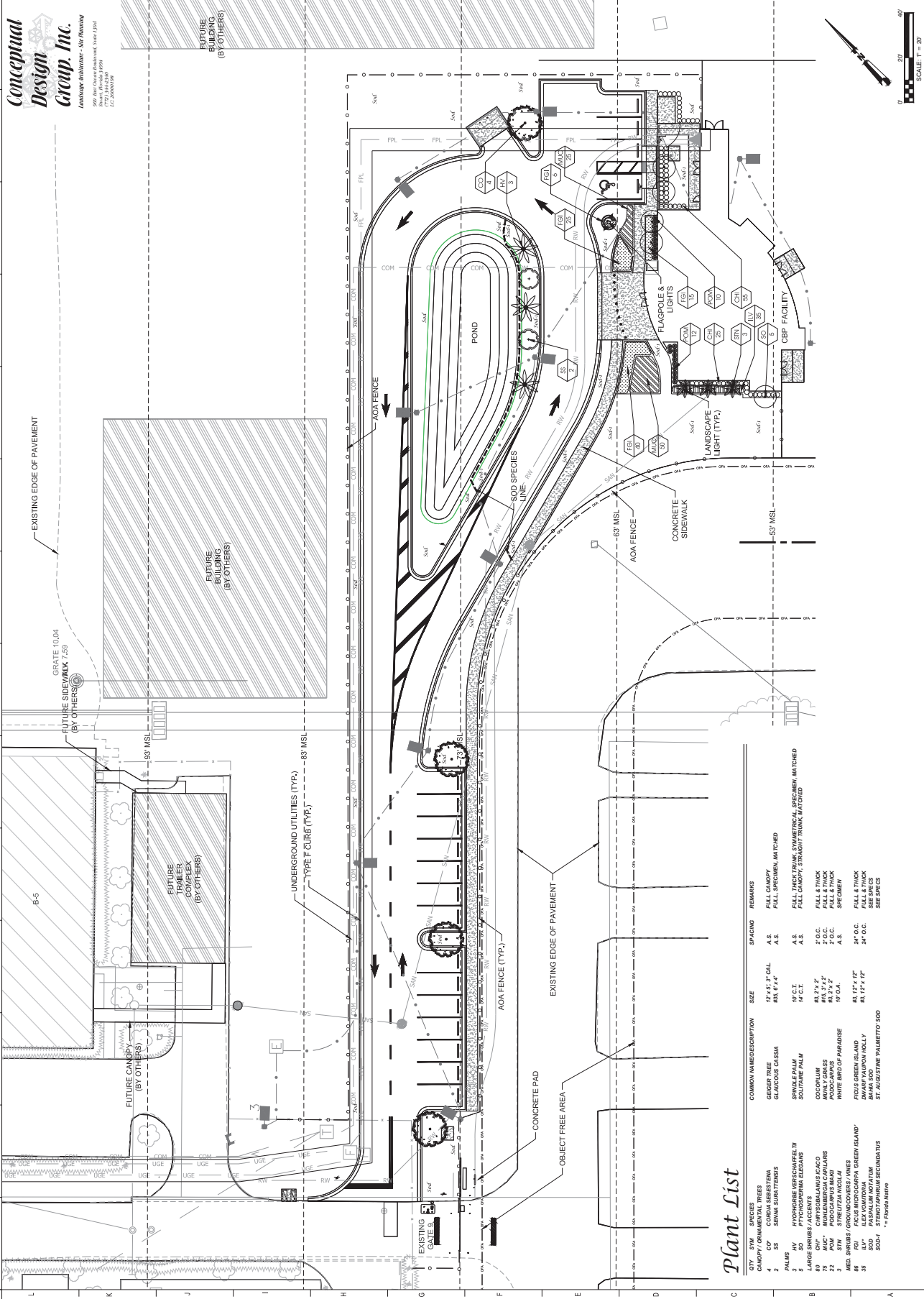
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LANDSCAPE PLAN

L1 of 2

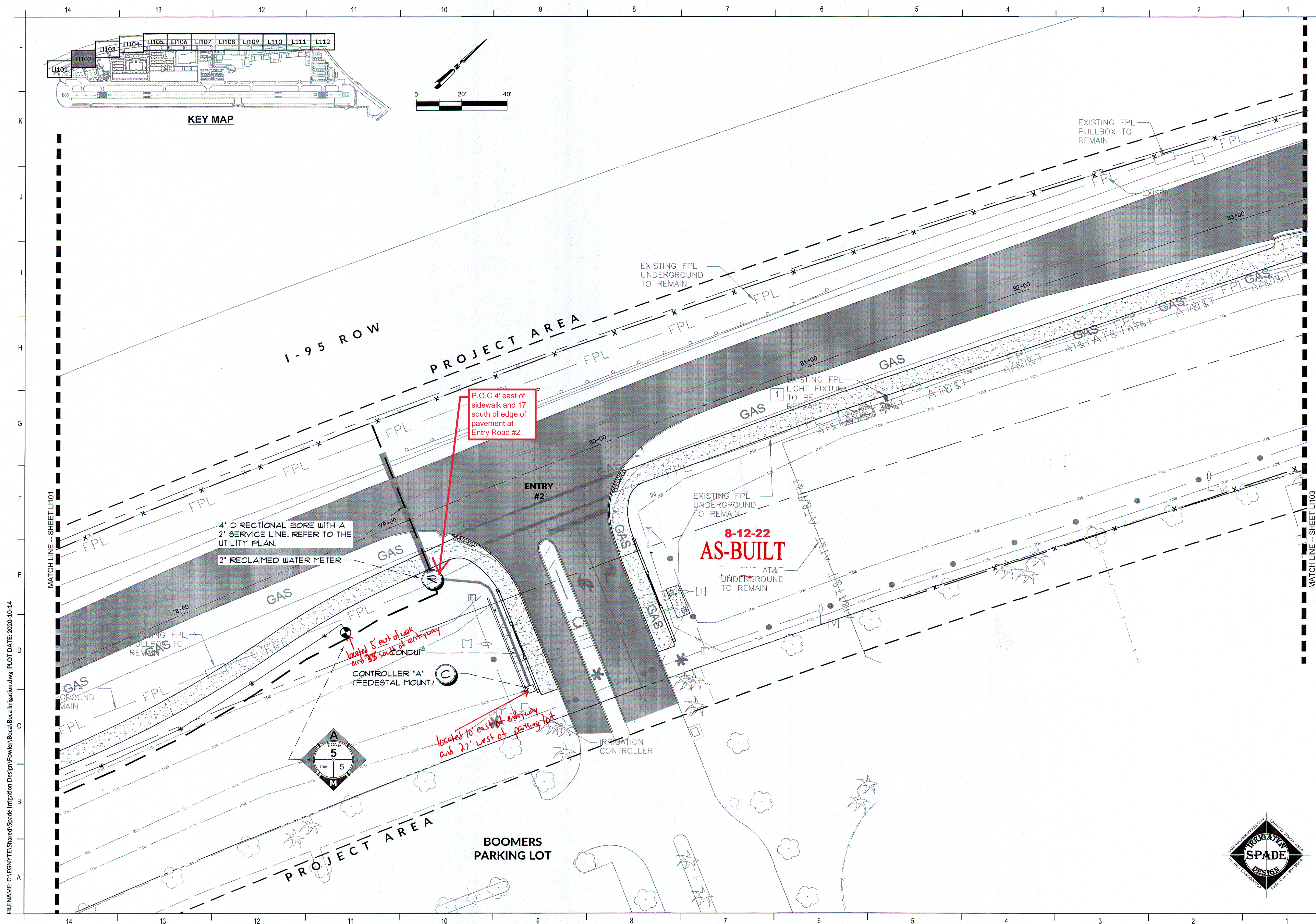
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BID DOCUMENTS	03-06-2011

**Conceptual
Design
Group, Inc.**
Landscape Architecture • Site Planning



Plant List

[illegible]



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Revision Schedule		
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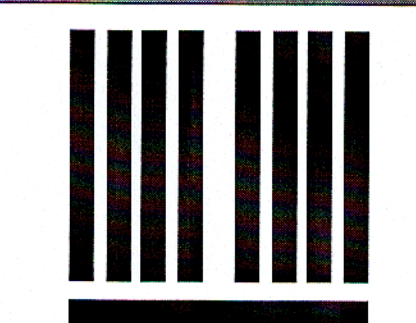
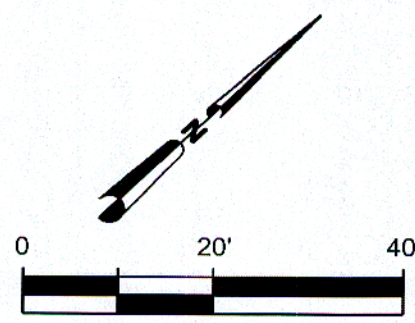
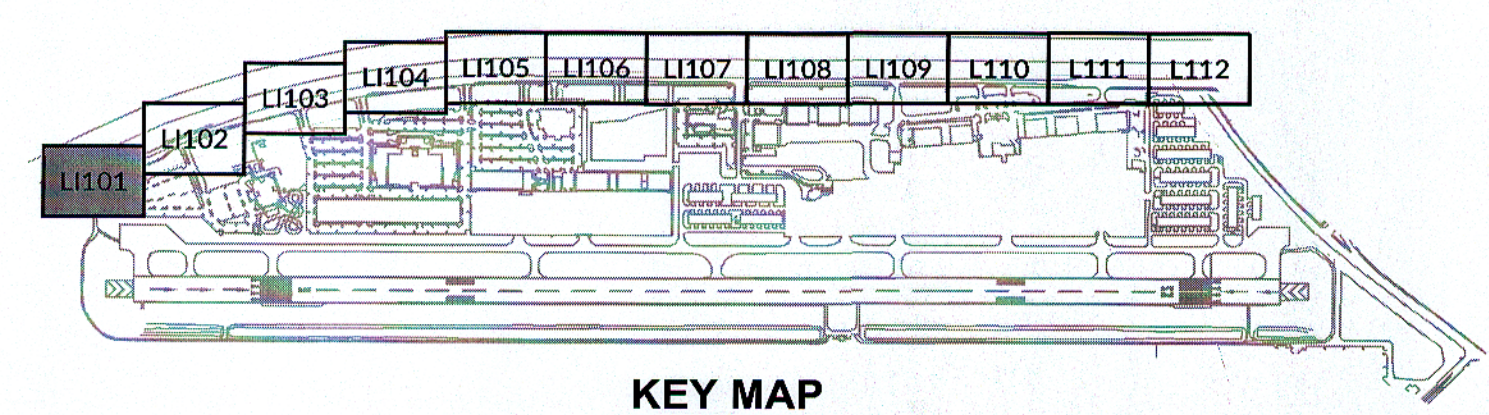
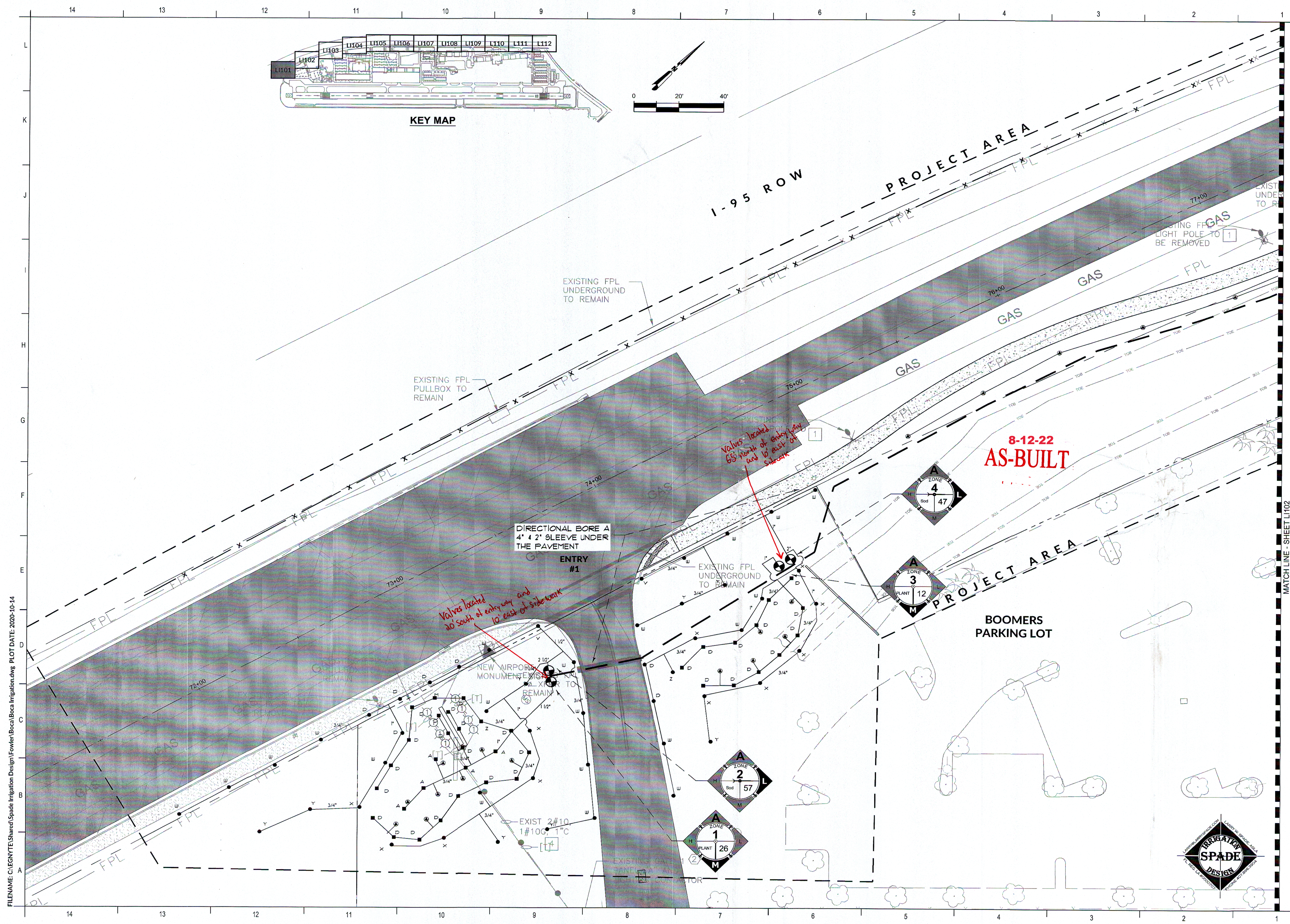
AIRPORT ROAD IMPROVEMENTS

BOCA RATON AIRPORT
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IRRIGATION PLAN

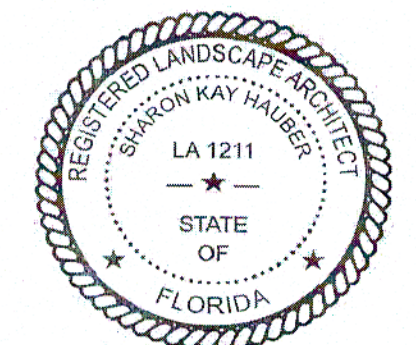
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Submittal:	Issue Date:
BID DOCUMENTS	OCTOBER 18, 2020



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AID Project No.	RIC 18038

Revision Schedule		
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1	RESPONSE TO PWR COMMENTS	9/18/20

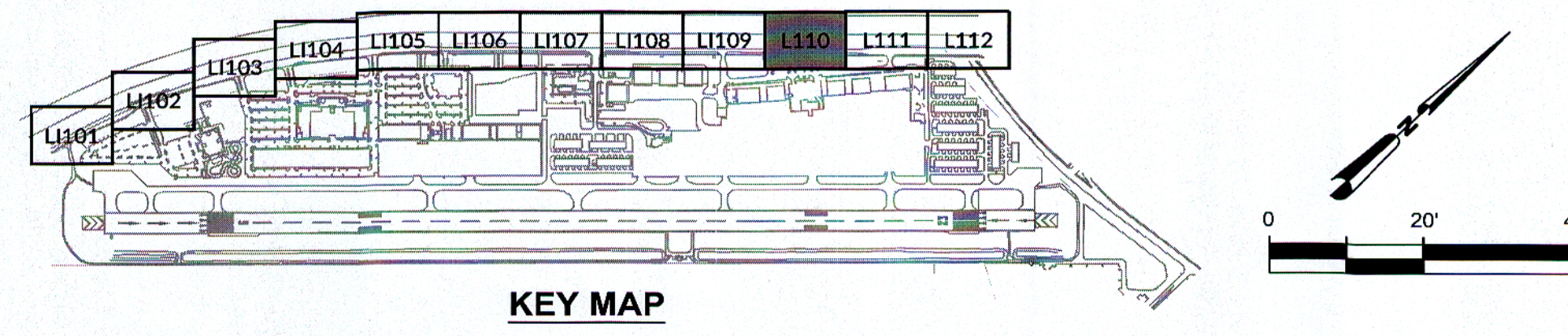
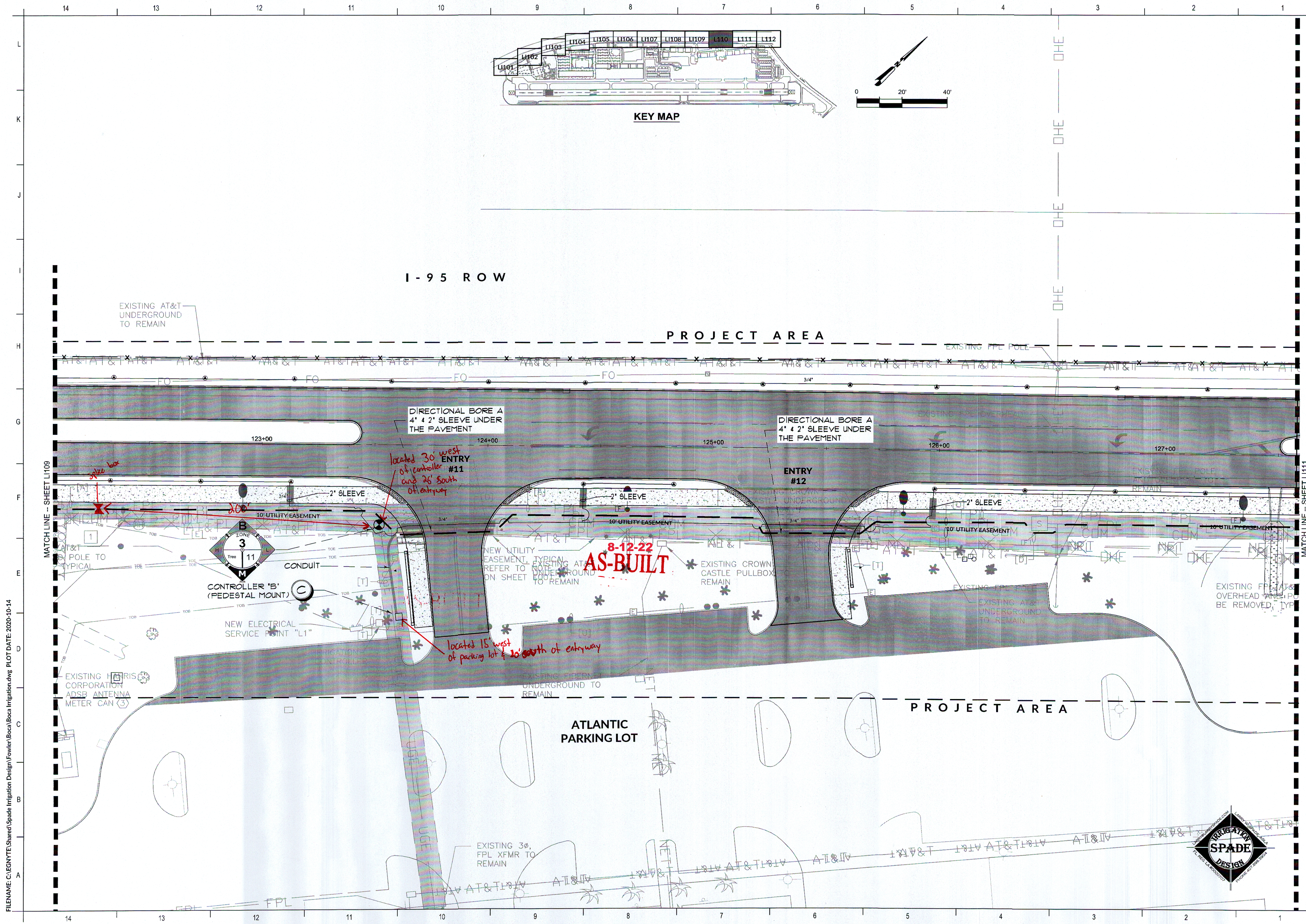
AIRPORT ROAD IMPROVEMENTS

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IRRIGATION PLAN

LI101

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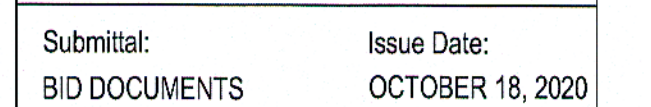
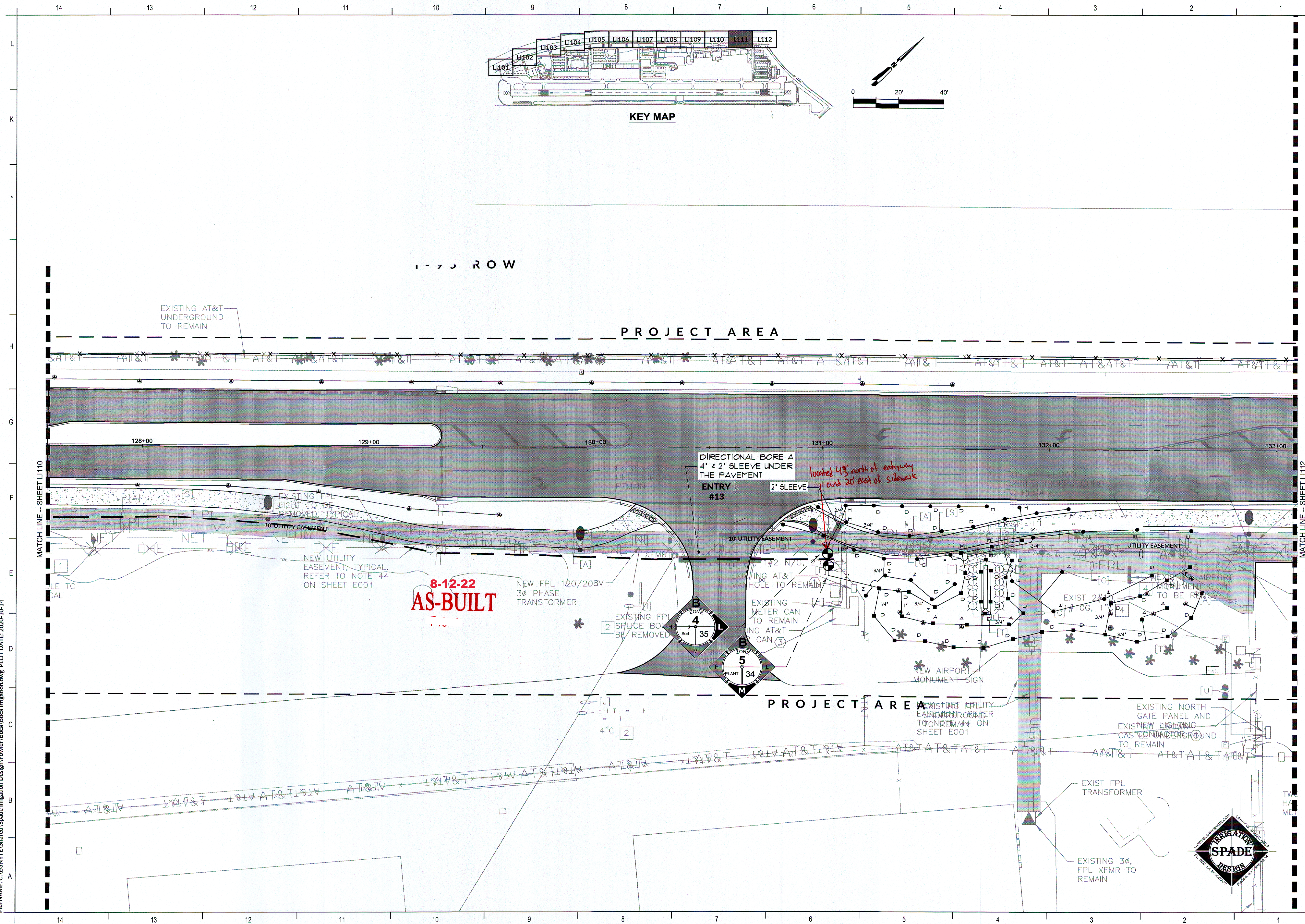
AIRPORT ROAD IMPROVEMENTS

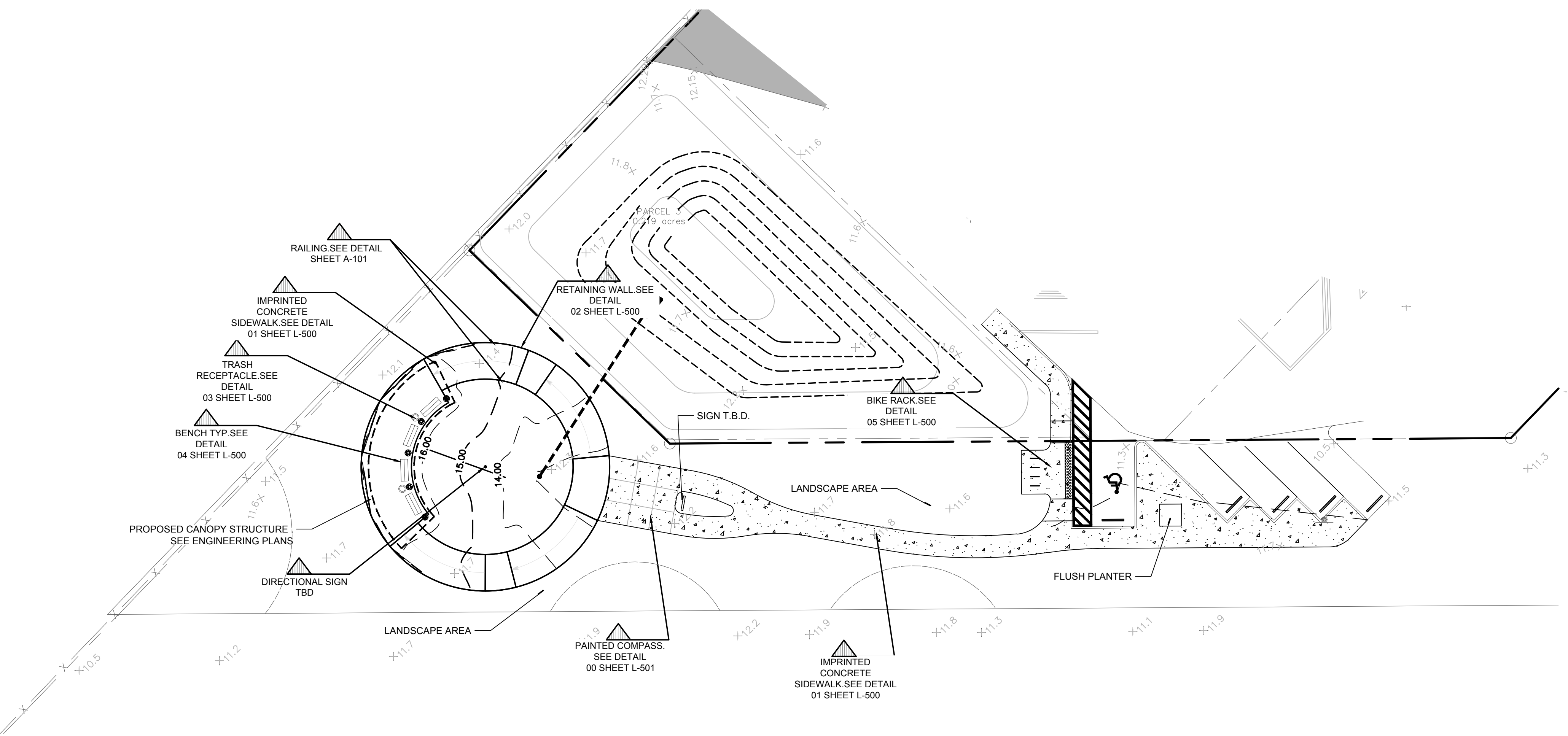
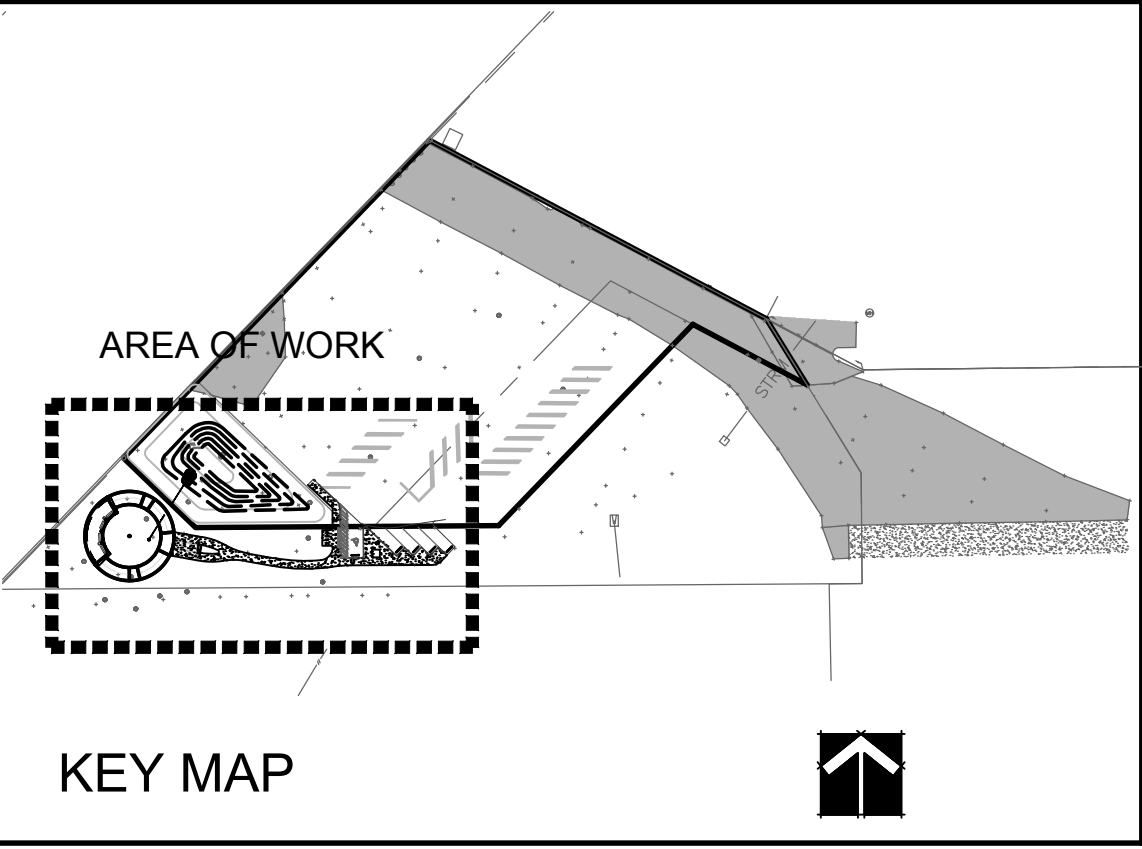
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IRRIGATION PLAN

LI110

Submittal: BID DOCUMENTS
Issue Date: OCTOBER 18, 2020

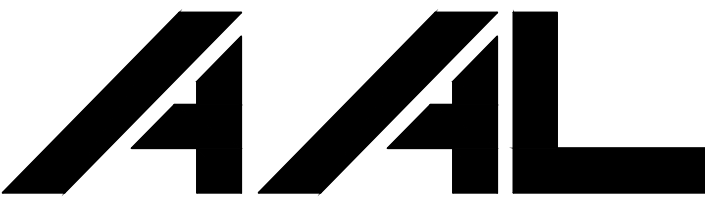




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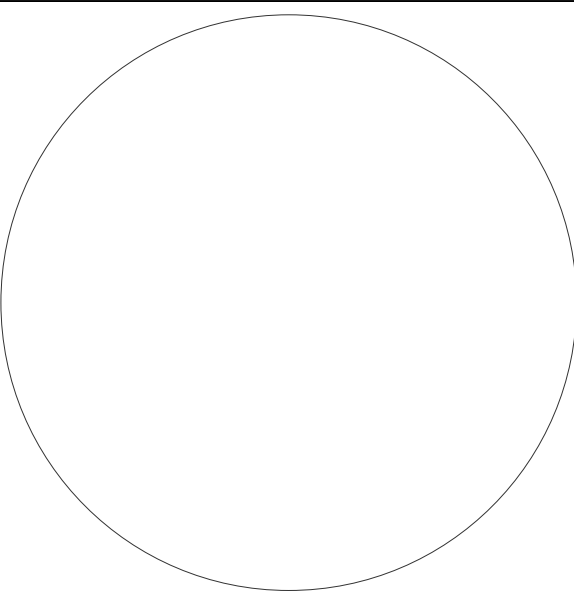
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Architectural Alliance Landscape

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No.	Description	Date

LAYOUT PLAN

Project number

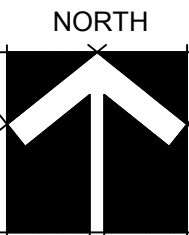
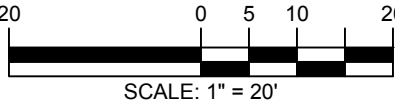
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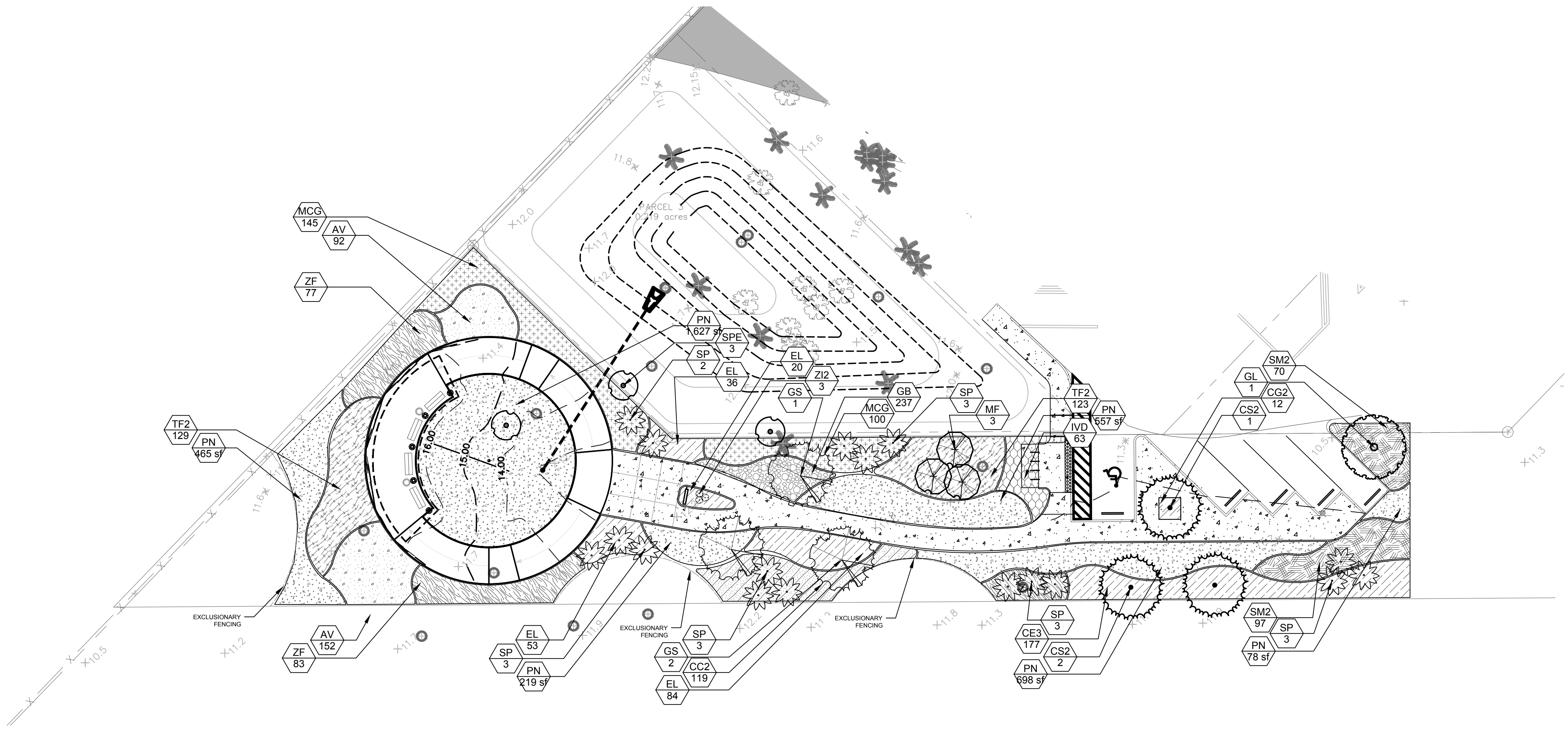
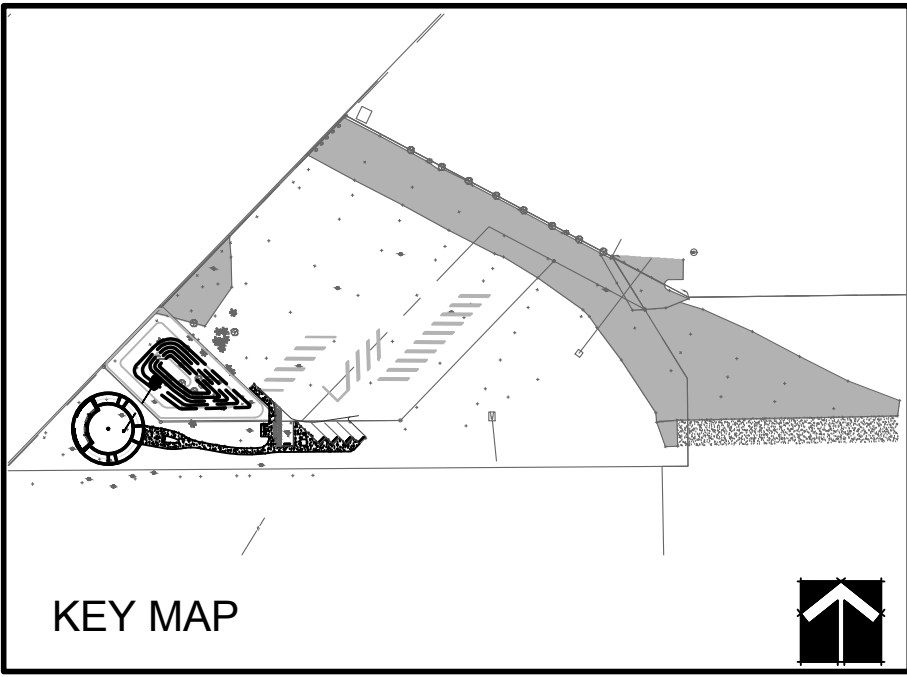
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Checked by

L-100

Scale





PLANT SCHEDULE										
TREES	QTY	BOTANICAL / COMMON NAME	CONTAINER	-	SIZE	NATIVE	DROUGHT TOLERANCE		DETAIL	REMARKS
CS2	3	Chrysophyllum oliviforme / Satinleaf	FG/B&B	2"Cal	12' HT x 6' SPR	Yes	High			
PALM TREES	QTY	BOTANICAL / COMMON NAME	CONTAINER	-	SIZE	NATIVE	DROUGHT TOLERANCE		DETAIL	REMARKS
GS	3	Guaiacum sanctum / Lignum Vitae	FG/B&B	2" Cal.	12' HT. X 5' SPR.	Yes	High			
GL	1	Gymnanthes lucida / Crabwood	---	2"Cal	12' HT. X 5' SPR.	Yes	High			
MF	3	Myrcianthes fragrans / Simpson's Stopper	---	2"Cal	10' HT. X 4' SPR.	Yes	High			
SPE	3	Sabal palmetto / Cabbage Palmetto	Existing			Yes	High			
SP	17	Sabal palmetto / Cabbage Palmetto	FG/B&B		14'-20" OA, Vary Heights	Yes	High			
SHRUBS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SIZE	NATIVE	DROUGHT TOLERANCE		DETAIL	REMARKS
ZI2	3	Zamia integrifolia / Coontie	-		20"x20" OA.	Yes	HIGH			
SHRUB AREAS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SIZE	NAITVE	DROUGHT TOLERANCE	SPACING	DETAIL	REMARKS
AV	244	Alpinia zerumbet 'Variegata' / Variegated Shell Ginger	3 Gal.,		24"HT x 24"SPR	No	Medium	20" o.c.		
CC2	119	Capparis cynophallophora / Jamaica Caper	-		18" HT. X 18" SPR.	Yes	High	24" o.c.		
CG2	12	Clusia guttifera nana / Dwarf Clusia	-		16" HT x 16" SPR	Yes	High	22" o.c.		
CE3	177	Conocarpus erectus / Buttonwood	-		20" HT x 20" SPR	Yes	High	24" o.c.		
EL	193	Ernodea littoralis / Golden Creeper	-		16" HT x 16" SPR	Yes	High	22" o.c.		
IVD	63	Ilex vomitoria 'Stokes dwarf' / Dwarf Yaupon Holly	-		14" HT x 16" SPR	Yes	High	22" o.c.		
SM2	167	Sabal minor / Dwarf Palmetto	-		20" HT x 20" SPR	Yes	High	24" o.c.		
ZF	202	Zamia furfuracea / Cardboard Palm	-		20" HT x 20" SPR	No	High	24" o.c.		
GROUND COVERS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SIZE	NATIVE	DROUGHT TOLERANCE	SPACING	DETAIL	REMARKS
GB	237	Glandularia tampensis / Tampa Verbena	-		12"H. X12" SPR.	YES	High	12" o.c.		
SOD/SEED	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SIZE	NATIVE	DROUGHT TOLERANCE	SPACING	DETAIL	REMARKS
PN	3,644 sf	Paspalum notatum / Bahiagrass	-			NO	High			
TALL GROUND COVERS	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	SIZE	NATIVE	DROUGHT TOLERANCE	SPACING	DETAIL	REMARKS
MCG	245	Muhlenbergia capillaris / Pink Muhly Grass	-	Yes	24" HT. x 24" SPR.	Yes	Medium	24" o.c.		
TF2	252	Tripsacum dactyloides / Fakahatchee Grass	-		24" HT. x 24" SPR.	YES	Medium	24" o.c.		

811

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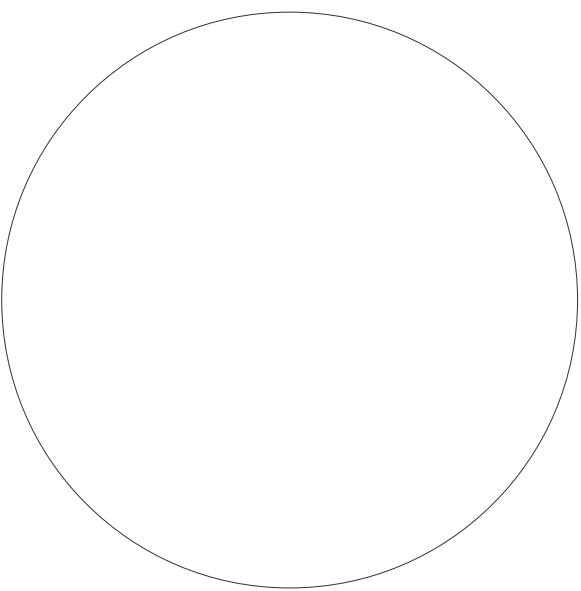


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No.	Description	Date

LANDSCAPE PLAN

Project number
Date
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Scale

NOTES:

GENERAL PLANTING REQUIREMENTS

All sizes shown for plant material on the plans are to be considered Minimum. All plant material must meet or exceed these minimum requirements for both height and spread. Any other requirements for specific shape or effect as noted on the plan(s) will also be required for final acceptance.

All plant material furnished by the landscape contractor shall be Florida #1 or better as established by "Grades and Standards for Florida Nursery Plants" and "Grades and Standards for Florida Nursery Trees". All material shall be installed as per CSI specifications.

All plant material as included herein shall be warrantied by the landscape contractor for a minimum period as follows: All trees and palms for 12 months, all shrubs, vines, groundcovers and miscellaneous planting materials for 90 days, and all lawn areas for 60 days after final acceptance by the owner or owner's representative.

All plant material shall be planted in planting soil that is delivered to the site in a clean loose and friable condition. All soil shall have a well drained characteristic. Soil must be free of all rocks, sticks, and objectionable material including weeds and weed seeds as per CSI specifications.

Twelve inches (12") of planting soil 50/50 sand/topsoil mix is required around and beneath the root ball of all trees and palms, and 1 cubic yard per 50 bedding or groundcover plants.

All landscape areas shall be covered with Eucalyptus or sterilized seed free Melaleuca mulch to a minimum depth of three inches (3") of cover when settled. Cypress bark mulch shall not be used.

All plant material shall be thoroughly watered in at the time of planting; no dry planting permitted. All plant materials shall be planted such that the top of the plant ball is flush with the surrounding grade.

All landscape and lawn areas shall be irrigated by a fully automatic sprinkler system adjusted to provide 100% coverage of all landscape areas. All heads shall be adjusted to 100% overlap as per manufacturers specifications and performance standards utilizing a rust free water source. Each system shall be installed with a rain sensor.

It is the sole responsibility of the landscape contractor to insure that all new plantings receive adequate water during the installation and during all plant warranty periods. Deep watering of all new trees and palms and any supplemental watering that may be required to augment natural rainfall and site irrigation is mandatory to insure proper plant development and shall be provided as a part of this contract.

All plant material shall be installed with fertilizer, which shall be State approved as a complete fertilizer containing the required minimum of trace elements in addition to N-P-K, of which 50% of the nitrogen shall be derived from an organic source as per CSI specifications.

Contractors are responsible for coordinating with the owners and appropriate public agencies to assist in locating and verifying all underground utilities prior to excavation.

All ideas, designs and plans indicated or represented by this drawing are owned by and are the exclusive property of Architectural Alliance.

The plan takes precedence over the plant list.

SPECIAL INSTRUCTIONS

General site and berm grading to +/- 1 inch (1") shall be provided by the general contractor. All finished site grading and final decorative berm shaping shall be provided by the landscape contractor.

All sod areas as indicated on the planting plan shall receive Stenotaphrum secundatum, St. Augustine 'Palmetto' solid sod. It shall be the responsibility of the landscape contractor to include in the bid, the repair of any sod which may be damaged from the landscape installation operations.



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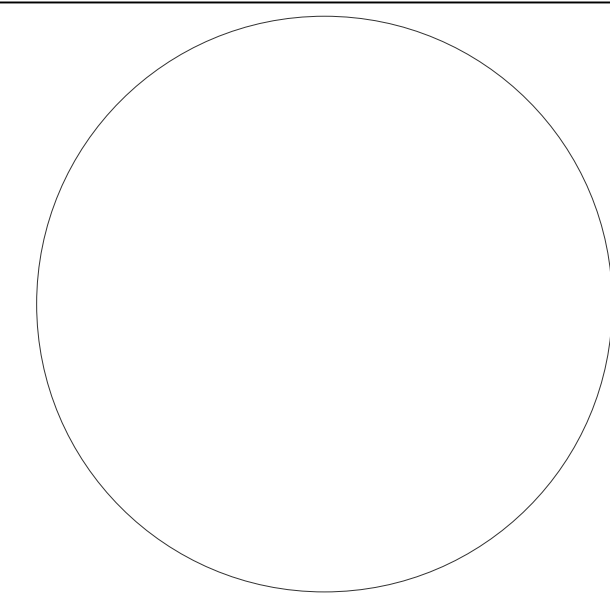


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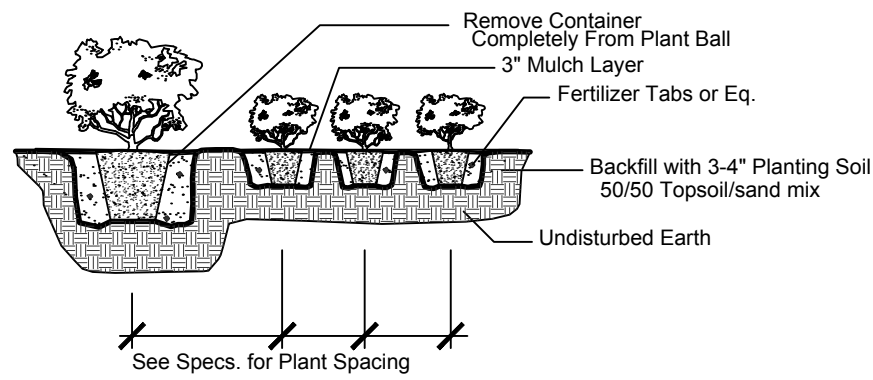
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No.	Description	Date

LANDSCAPE DETAILS AND NOTES

Project number	
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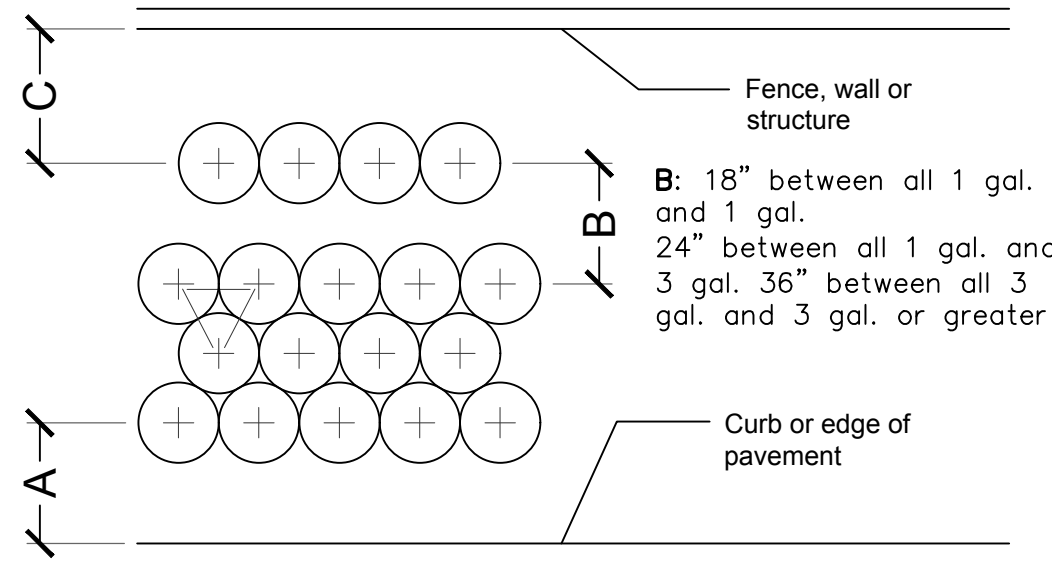


Shrub & Ground Cover Planting Detail
NTS

C: 18" for all 1 gal.
30" for all 3 gal. or greater
vines not included

NOTE: All shrub and groundcover masses to use triangular spacing except as a singular hedge row or where noted. Refer to the plant list for individual plant spacing.

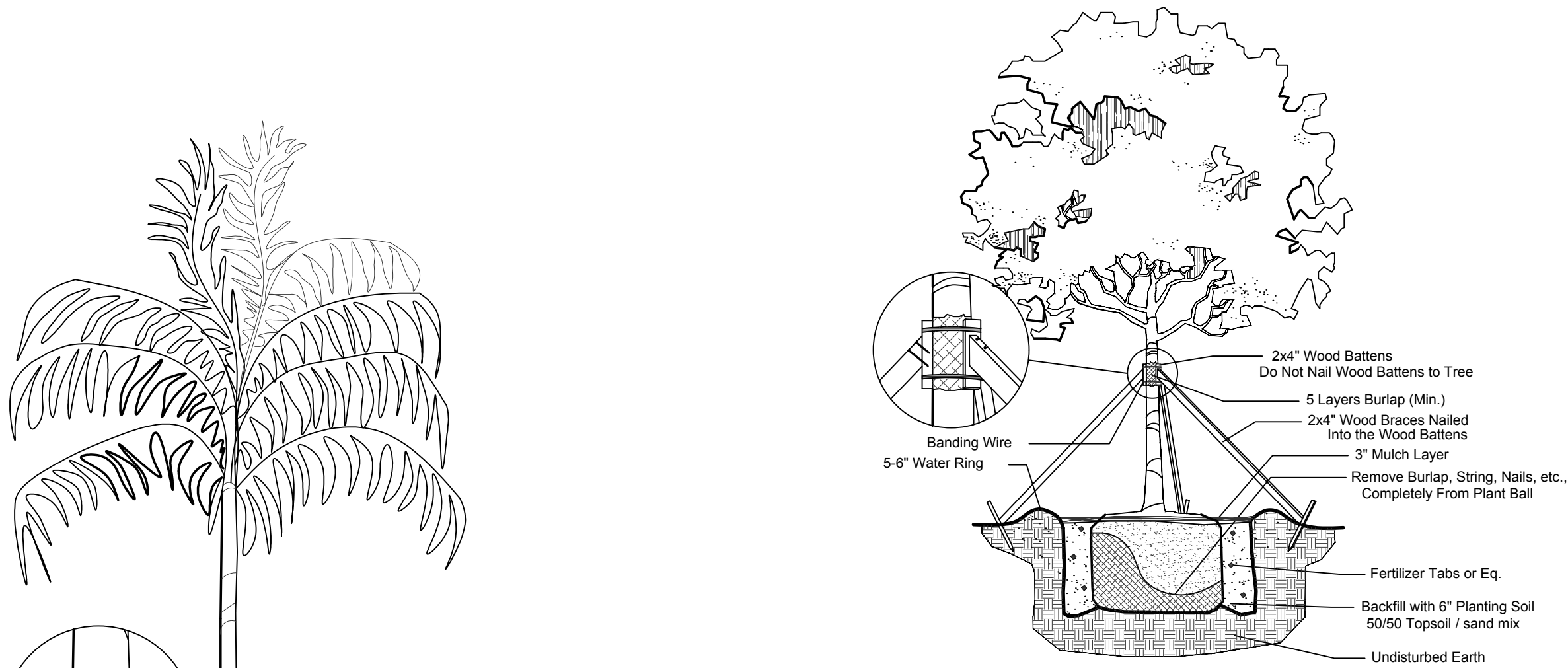
A: 14" for all 1 gal.
24" for all 3 gal. or greater



Typical Plant Spacing

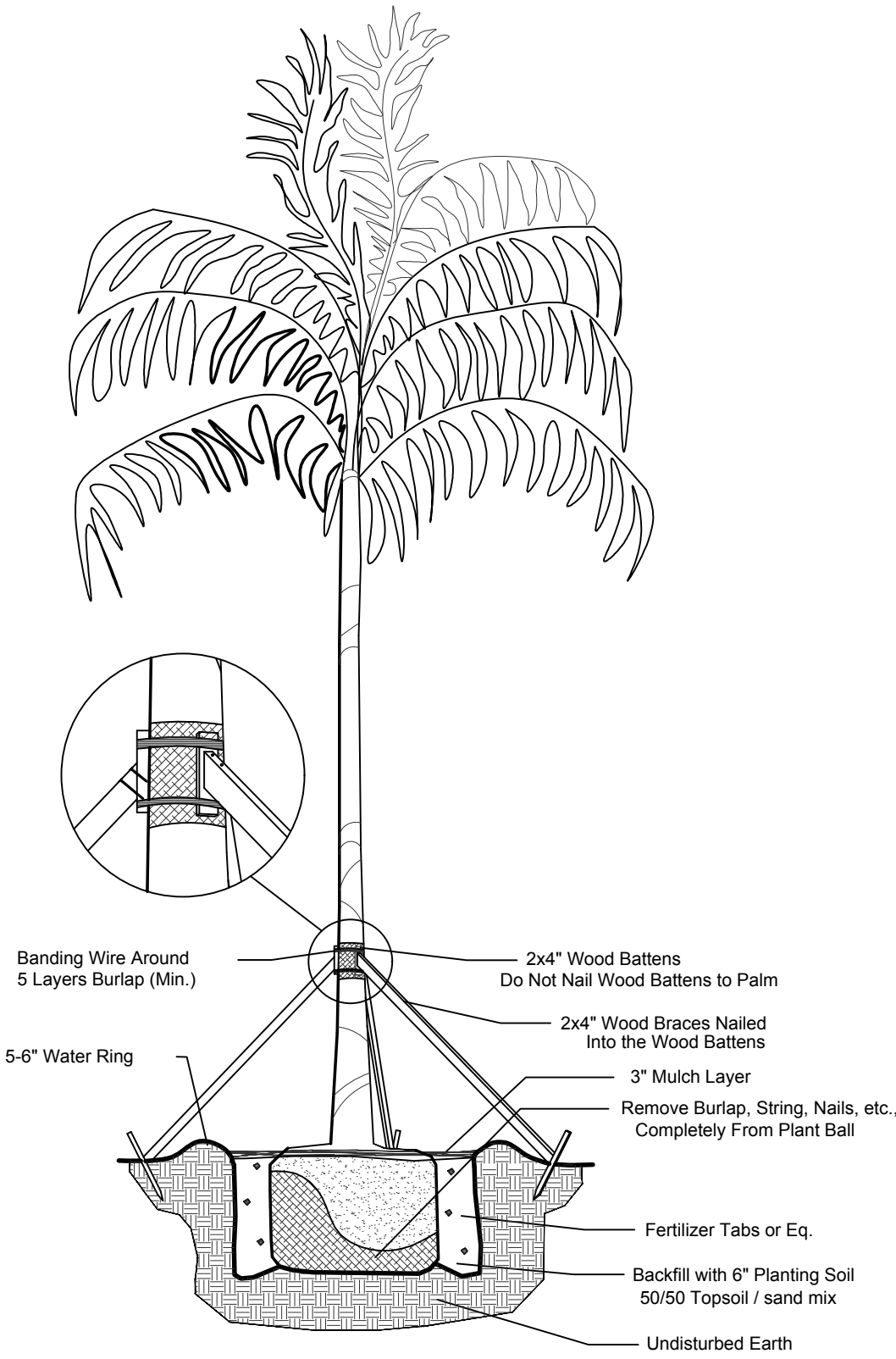
NTS

- ALL PLANT MATERIAL SHALL BE FLORIDA #1 GRADE OR BETTER.
- MULCH SHALL BE APPLIED TO A MINIMUM DEPTH OF THREE (3) INCHES IN ALL PLANTING BEDS.
- ALL PROHIBITED PLANT SPECIES SHALL BE ERADICATED FROM THE SITE.
- ALL LANDSCAPE AREAS SHALL BE PROVIDED WITH AN IRRIGATION SYSTEM, AUTOMATICALLY OPERATED, TO PROVIDE COMPLETE COVERAGE TO ALL PLANT MATERIALS AND GRASS TO BE MAINTAINED.
- SOD AND IRRIGATION SHALL BE PROVIDED WITHIN THE UNPAVED PORTION OF THE RIGHT-OF-WAY ADJACENT TO THE PROPERTY LINE.
- REINFORCED CONCRETE CURBING AT LEAST SIX (6) INCHES IN HEIGHT SHALL BE PROVIDED AROUND ALL LANDSCAPE ISLANDS AND AS A SEPARATOR BETWEEN ALL LANDSCAPED AREAS THAT ARE ADJACENT TO VEHICULAR USE AREAS UNLESS SUCH CURBING WILL INTERFERE WITH THE DRAINAGE.



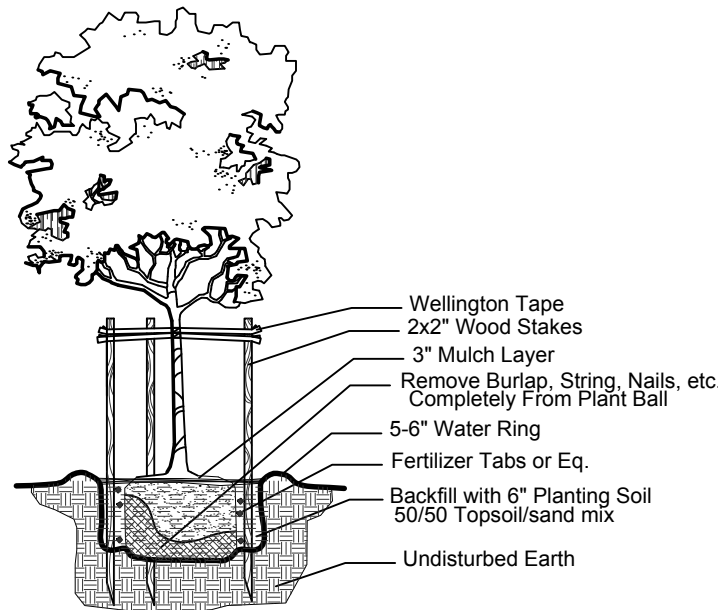
Large Tree Planting Detail

NTS



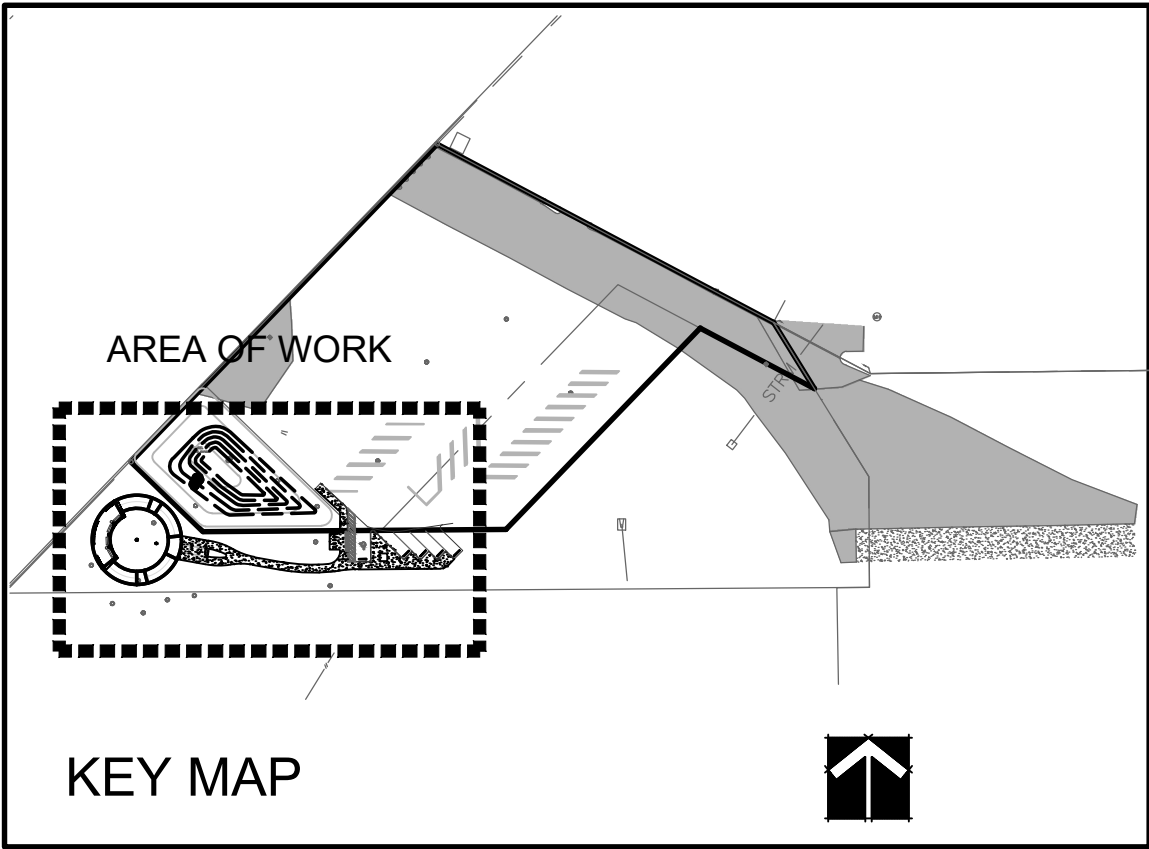
Palm Planting Detail

NTS

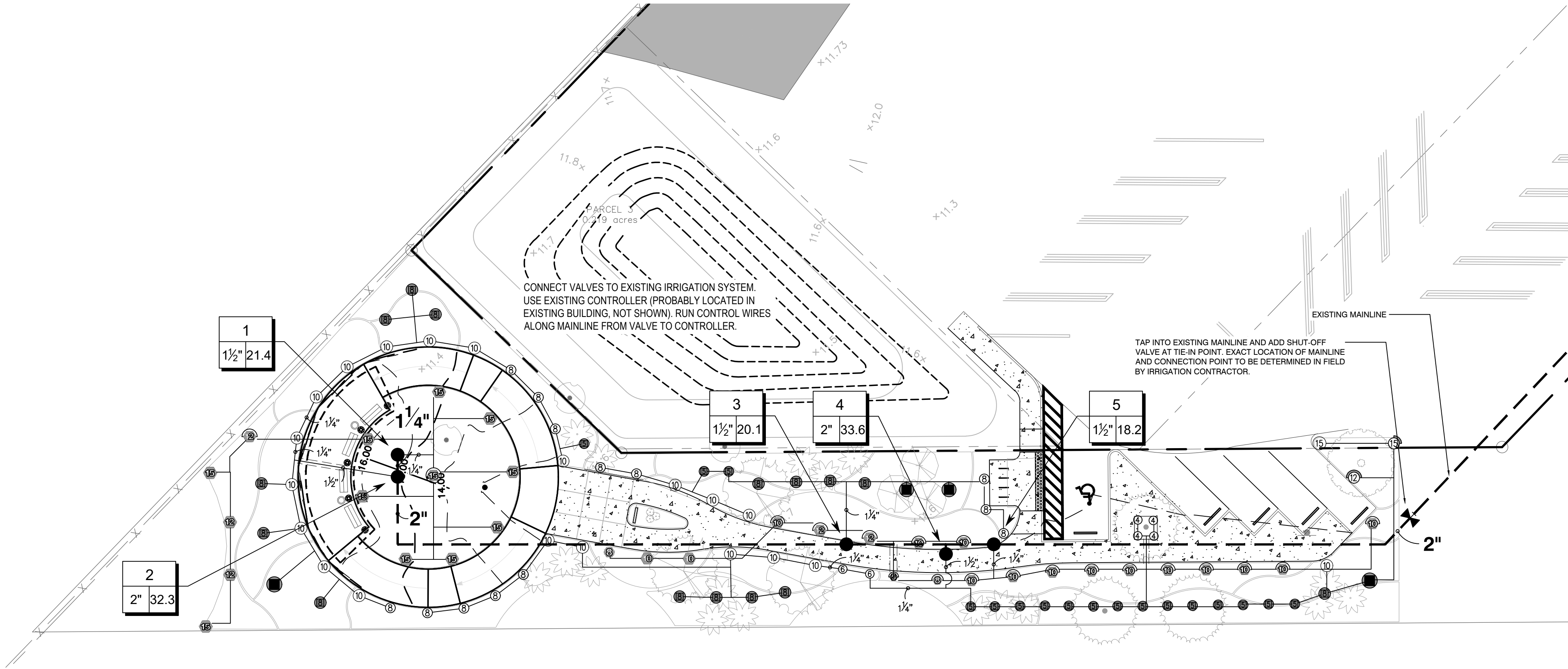
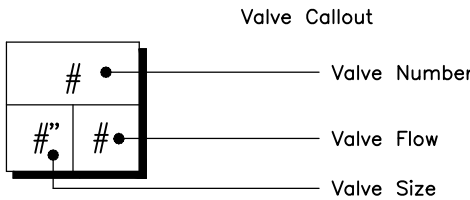


Small Tree Planting Detail

NTS



IRRIGATION SCHEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	RAIN BIRD 1806 5 SERIES MPR TURF SPRAY 6.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	1	30
	RAIN BIRD 1806 8 SERIES MPR TURF SPRAY 6.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	1	30
	RAIN BIRD 1806 10 SERIES MPR TURF SPRAY 6.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	13	30
	RAIN BIRD 1806 12 SERIES MPR TURF SPRAY 6.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	3	30
	RAIN BIRD 1806 15 SERIES MPR TURF SPRAY 6.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	1	30
	RAIN BIRD 1806 ADJ TURF SPRAY 6.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	15	30
	RAIN BIRD 1812 12 SERIES MPR SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	1	30
	RAIN BIRD 1812 15 SERIES MPR SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	1	30
	RAIN BIRD 1812 ADJ SHRUB SPRAY 12IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	40	30
	RAIN BIRD 1808 5 SERIES MPR SHRUB SPRAY 6.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	17	30
	RAIN BIRD 1808 8 SERIES MPR SHRUB SPRAY 6.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	15	30
	RAIN BIRD 1806 10 SERIES MPR SHRUB SPRAY 6.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	2	30
	RAIN BIRD 1806 12 SERIES MPR SHRUB SPRAY 6.0IN. POP-UP SPRINKLER WITH CO-MOLDED WIPER SEAL. SIDE AND BOTTOM INLET. 1/2IN. NPT FEMALE THREADED INLET.	2	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
	RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION, WITH PRESSURE REGULATOR MODULE.	5	
	LANDSCAPE PRODUCTS INC. BBV 2IN. FULL PORT BRASS BALL VALVE.	1	
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 ONLY THOSE LATERAL LINES SIZED 1-1/4" AND LARGER ARE LABELED. ALL OTHER PIPES ARE 1" IN DIAMETER.	1,376 L.F.	
	IRRIGATION MAINLINE: PVC SCHEDULE 40	520.6 L.F.	
	PIPE SLEEVE: PVC SCHEDULE 40	28.9 L.F.	



SYSTEM DESIGNED TO OPERATE WITHIN THE FOLLOWING PARAMETERS:
POC OUTPUT- MAX CAPACITY OF 46.59GPM. DESIGN PRESSURE: 30PSI. IF
GPM OUTPUT IS LESS THAN 45, OR IF STATIC PRESSURE AT POC IS LESS
THAN 65PSI CONTACT LANDSCAPE ARCHITECT.

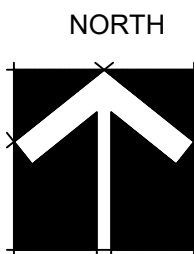
AUTOMATIC IRRIGATION SYSTEM IS EQUIPPED WITH RAIN SENSOR AND PROVIDES 100%
COVERAGE WITH 50% OVERLAP FROM AN APPROVED WATER SOURCE.

MAINLINE LOCATION, WHERE SHOWN, IS FOR GRAPHIC CLARITY PURPOSES ONLY. INSTALL AT
THE BACK OF CURB, FRONT OF WALK, BACK OF WALK, OR ADJACENT TO OTHER HARDSCAPES
TO FACILITATE FUTURE LOCATION AND TO PROTECT FROM DAMAGE. ENSURE MAINLINE IS
INSTALLED ACCORDING TO IRRIGATION SPECIFICATIONS AND DETAILS.

INSTALL DIRECT BURIAL CONTROL WIRE ADJACENT TO MAINLINE FROM CONTROLLER TO VALVES.
USE 2" CONDUIT FOR CONTROL WIRE UNDER PAVEMENT

ONLY PIPE SLEEVES LOCATED WITHIN VEHICULAR USE AREAS HAVE SIZES THAT ARE LABELED.
FOR ALL OTHER PIPE SLEEVES REFER TO SLEEVING SCHEDULE.

SLEEVING SCHEDULE	
PIPE SIZE	SLEEVING PIPE SIZE
3/4"	2"
1"	2"
1-1/4"	3"
1-1/2"	3"
2"	4"
3"	6"
4"	8"
6"	12"
8"	16"



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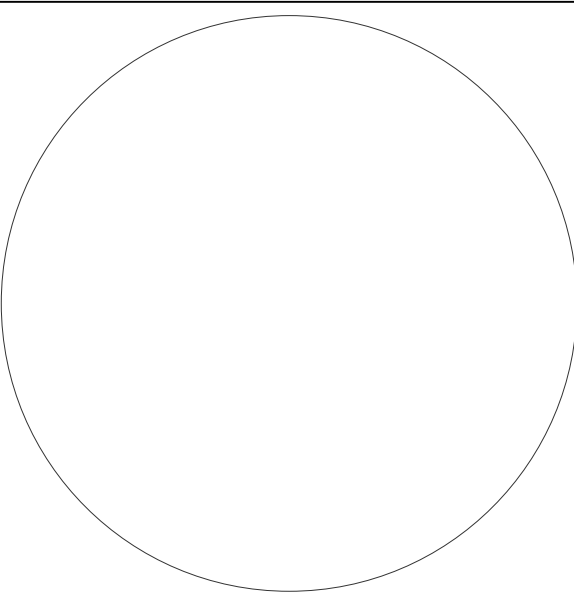


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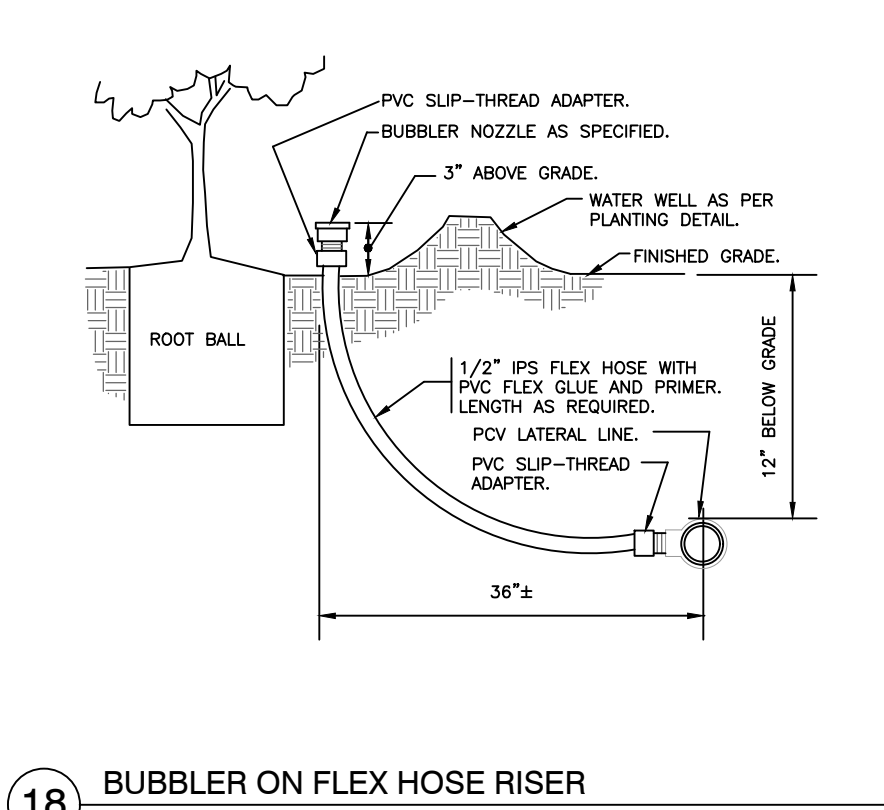
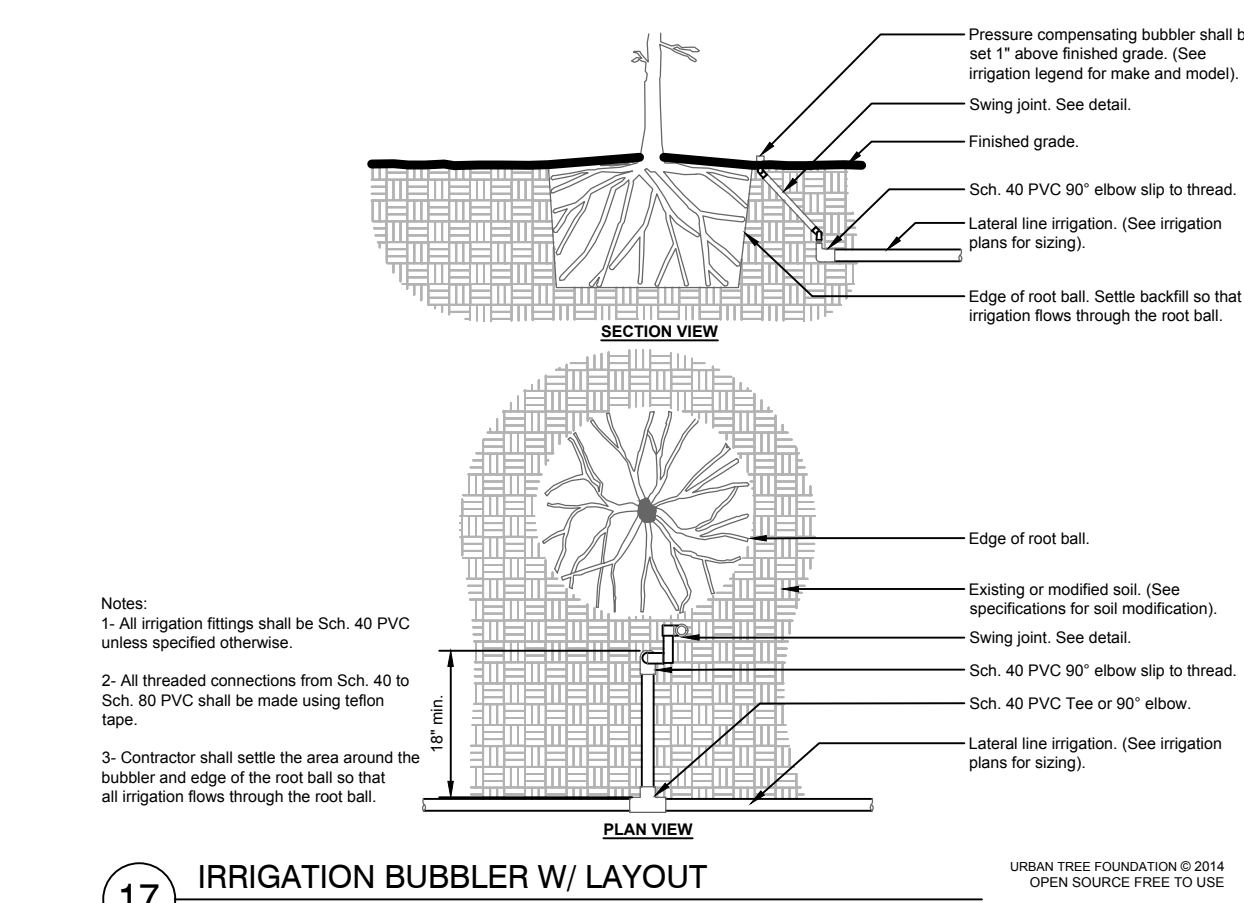
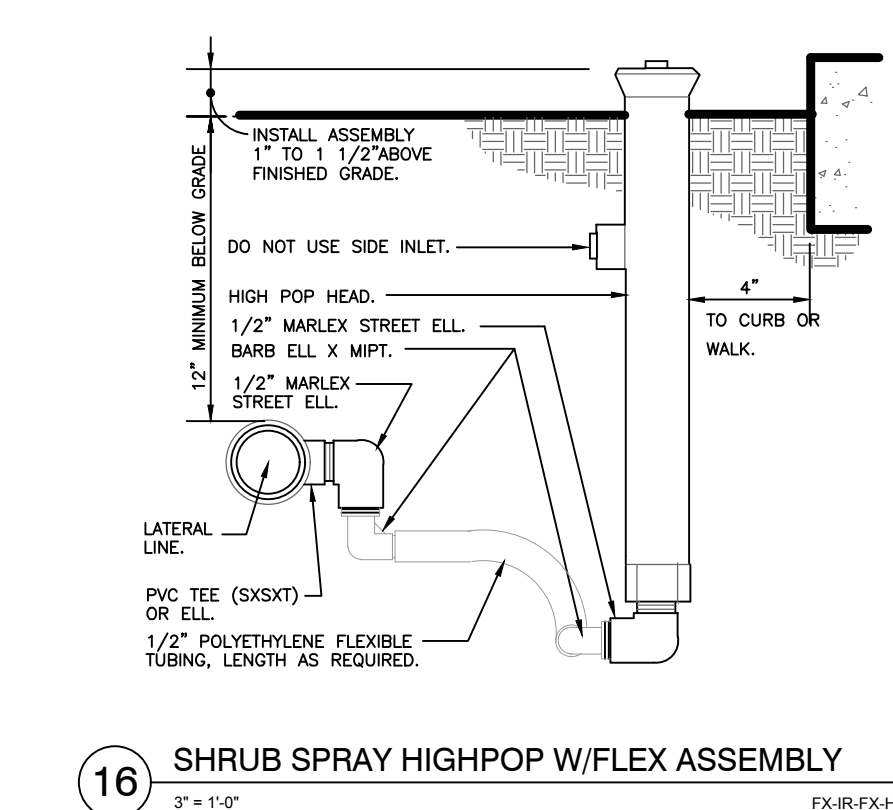
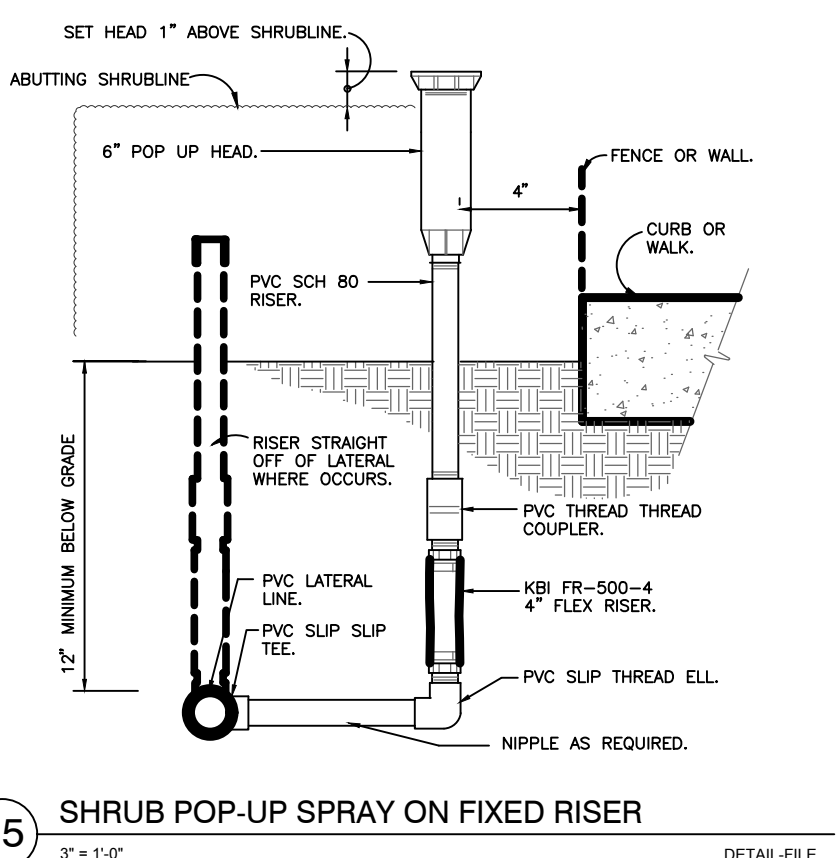
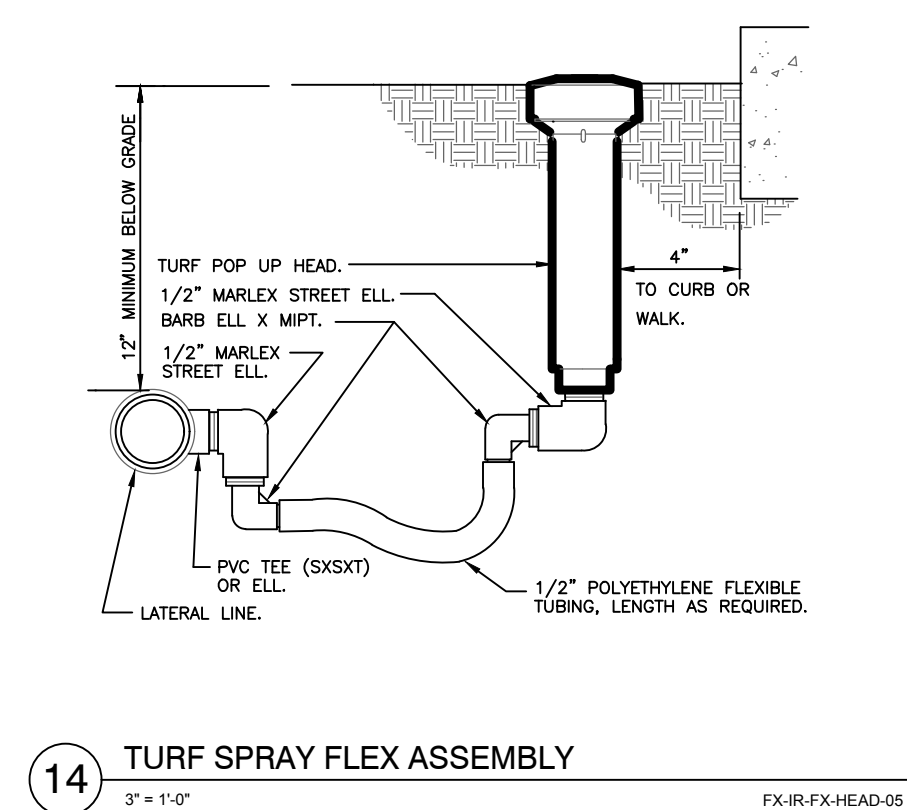
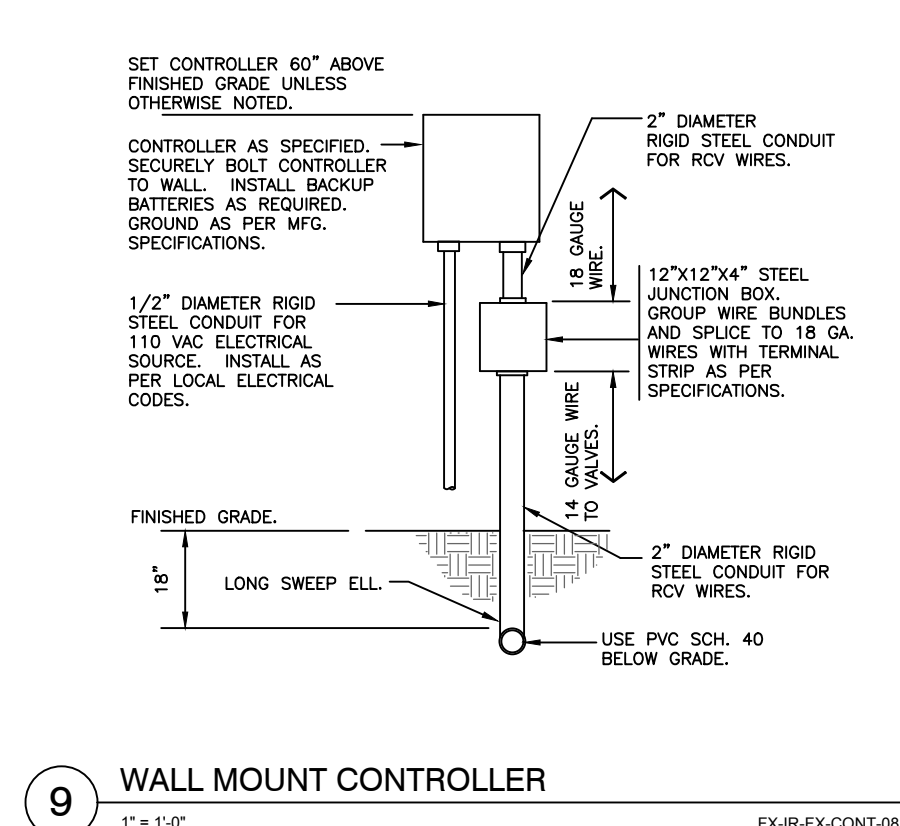
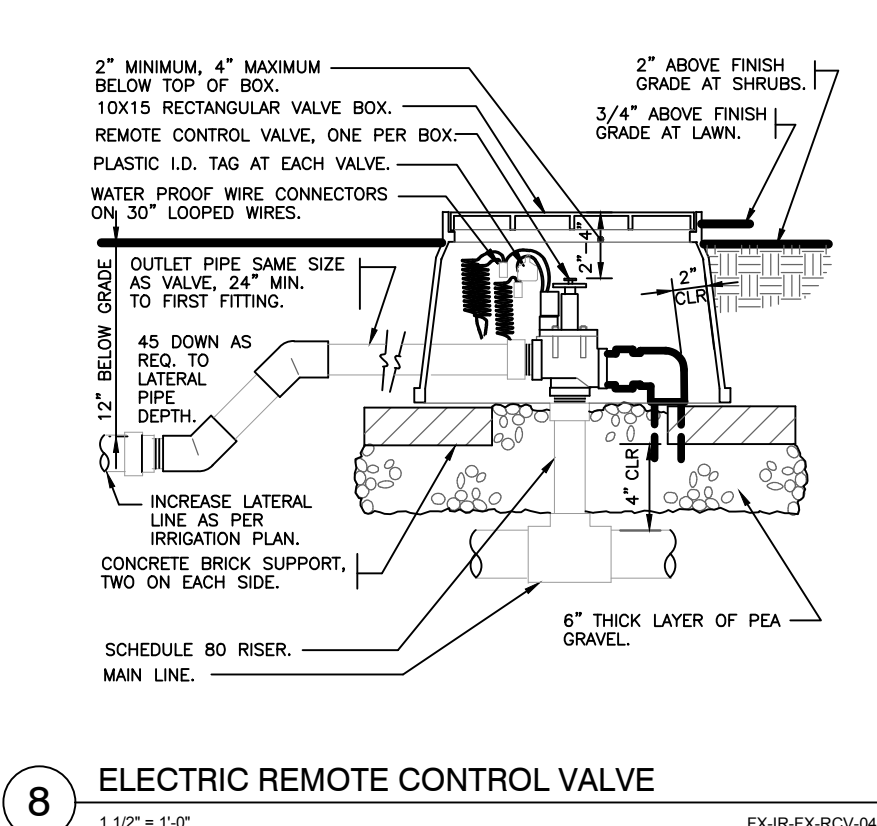
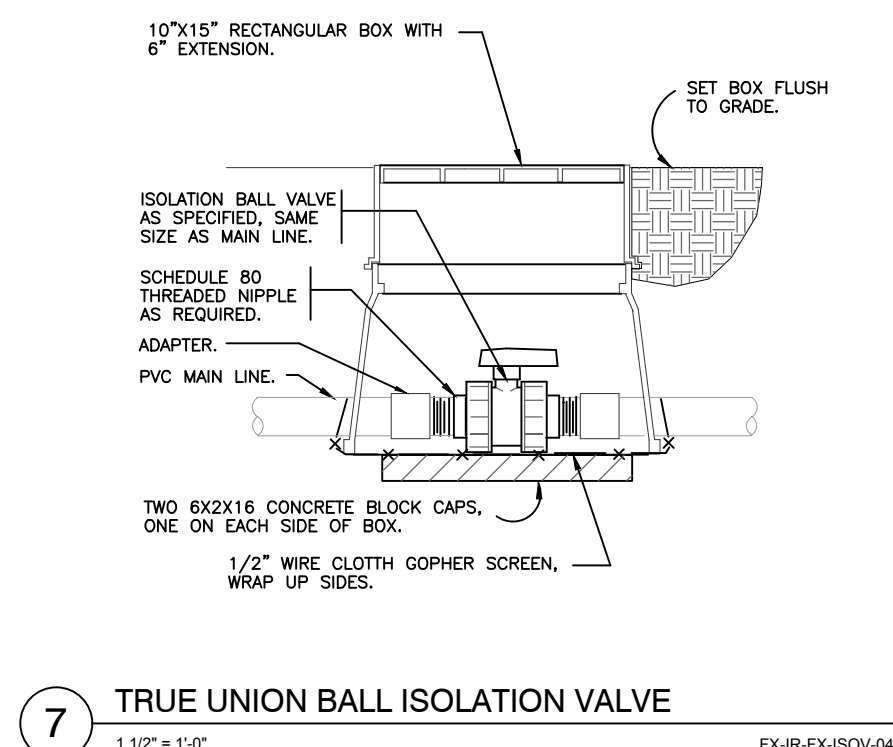
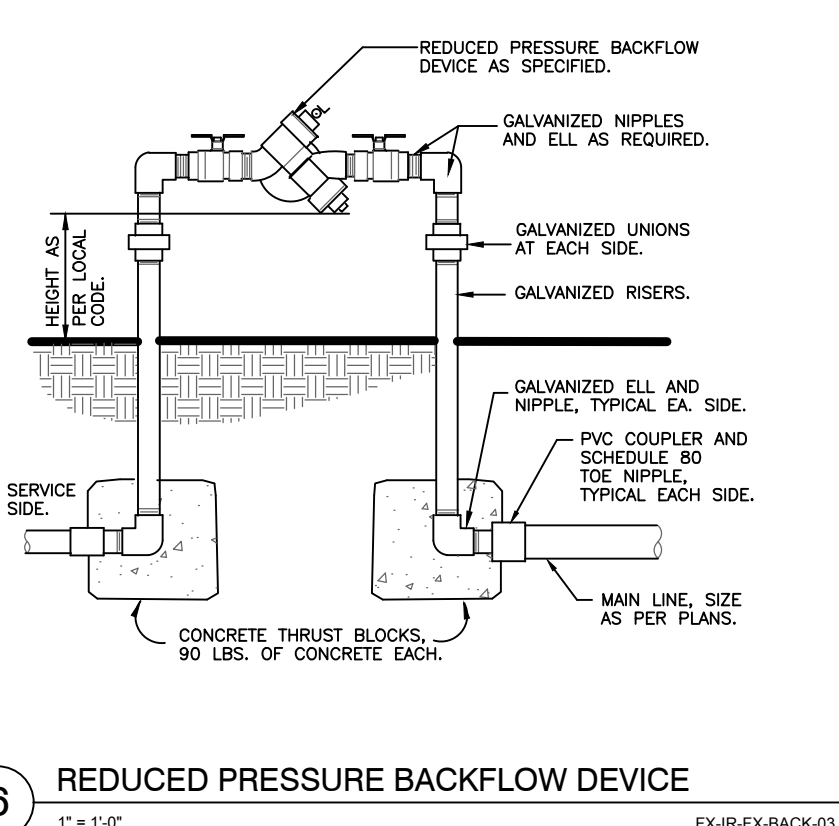
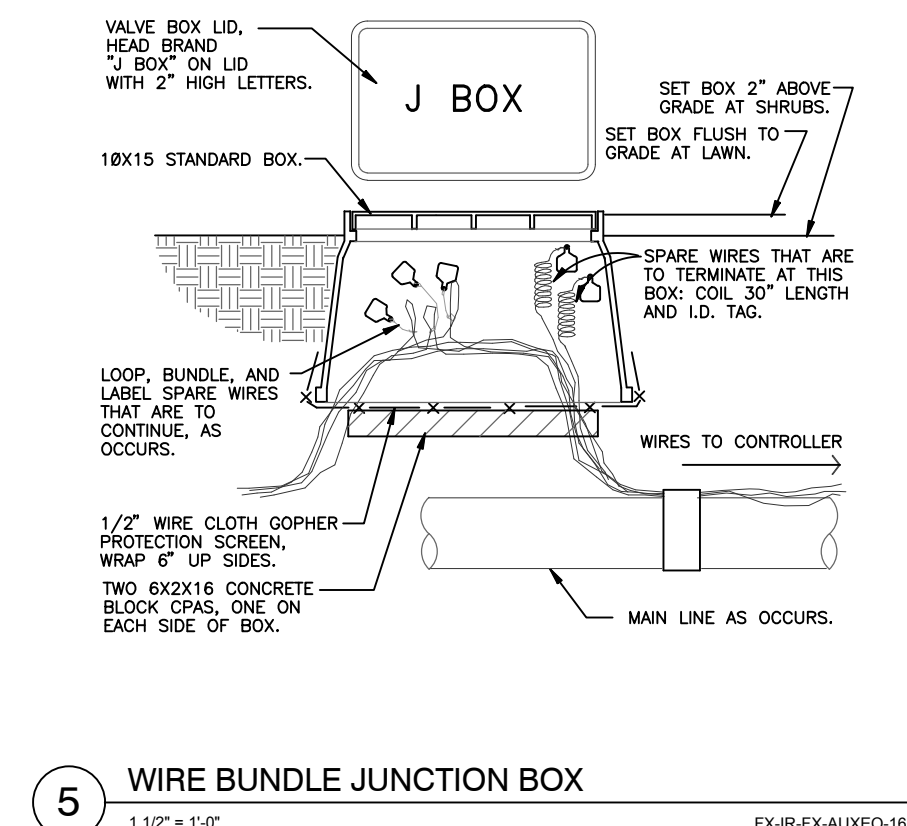
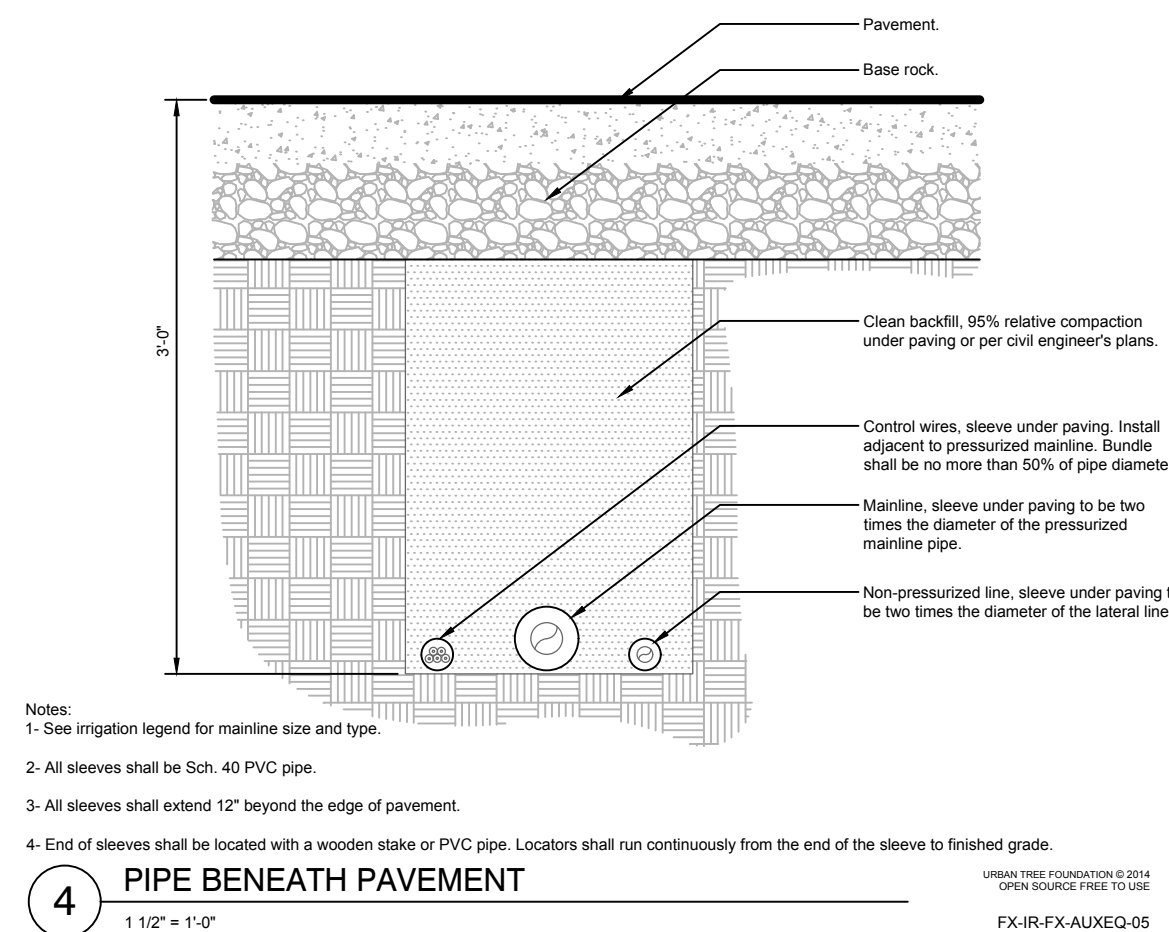
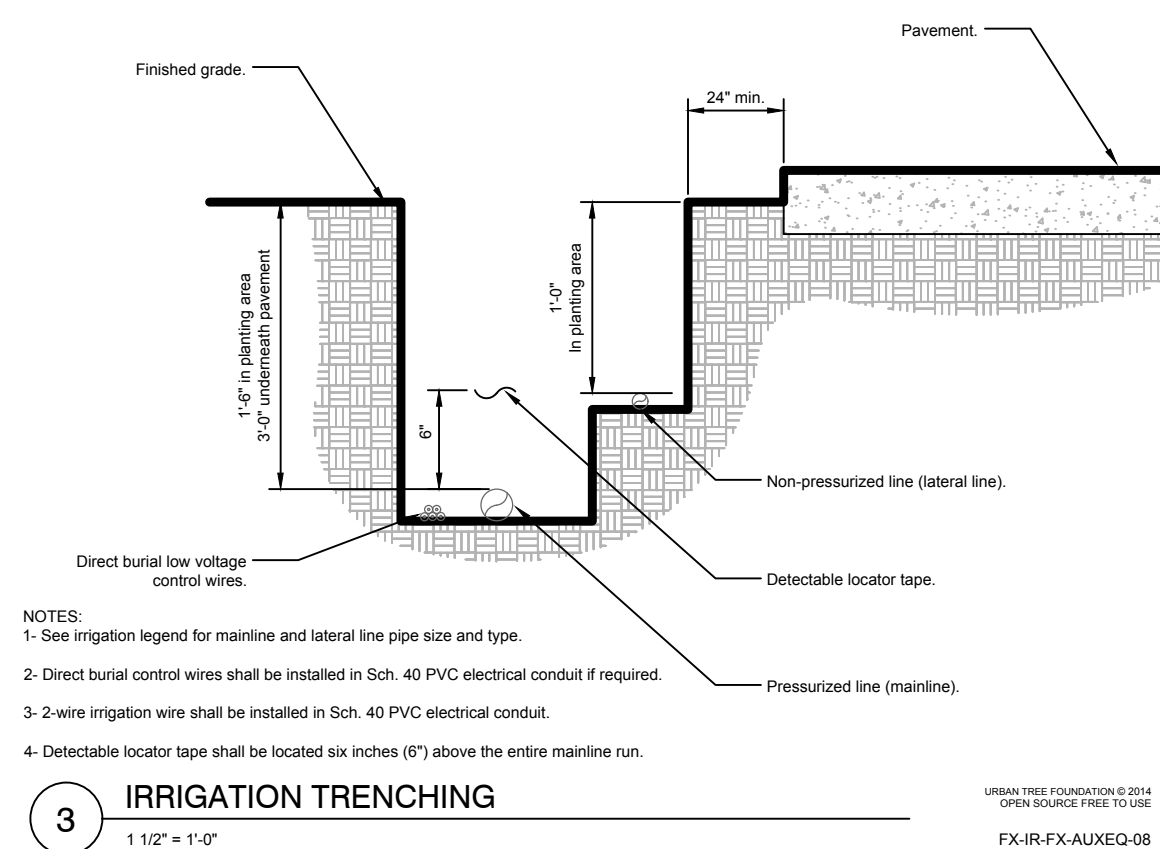
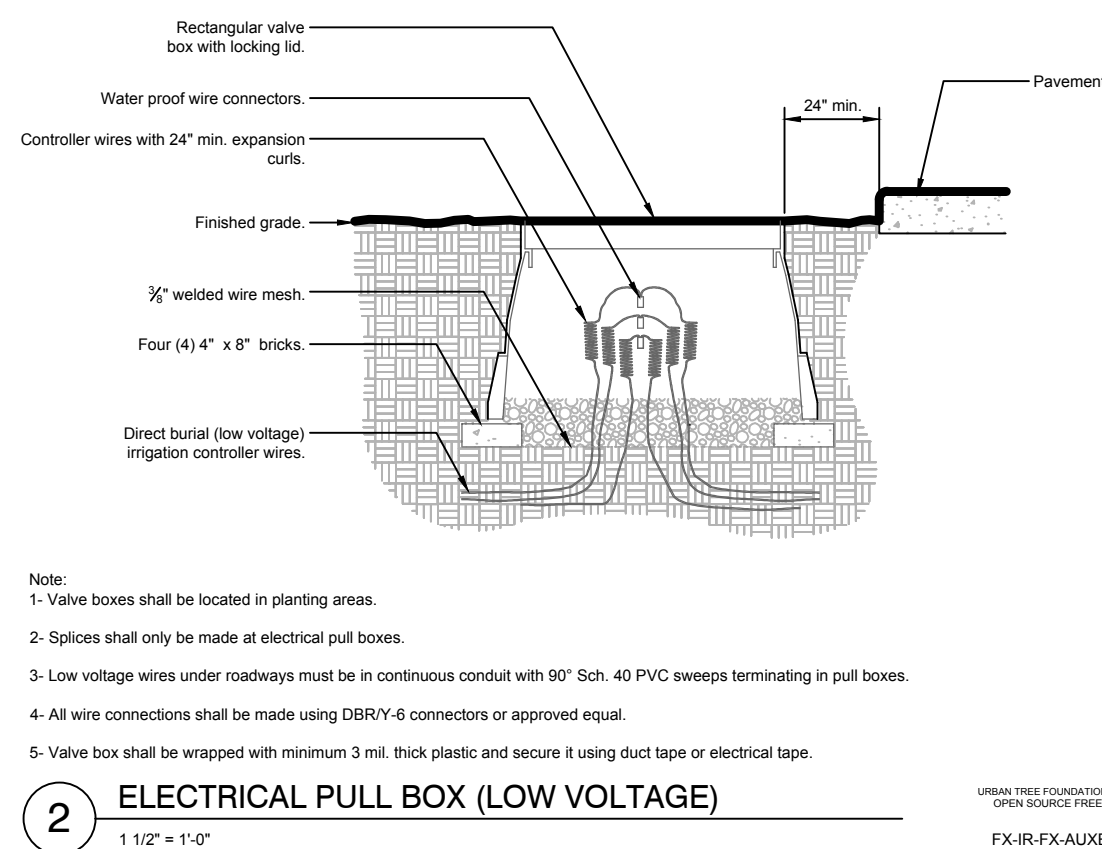
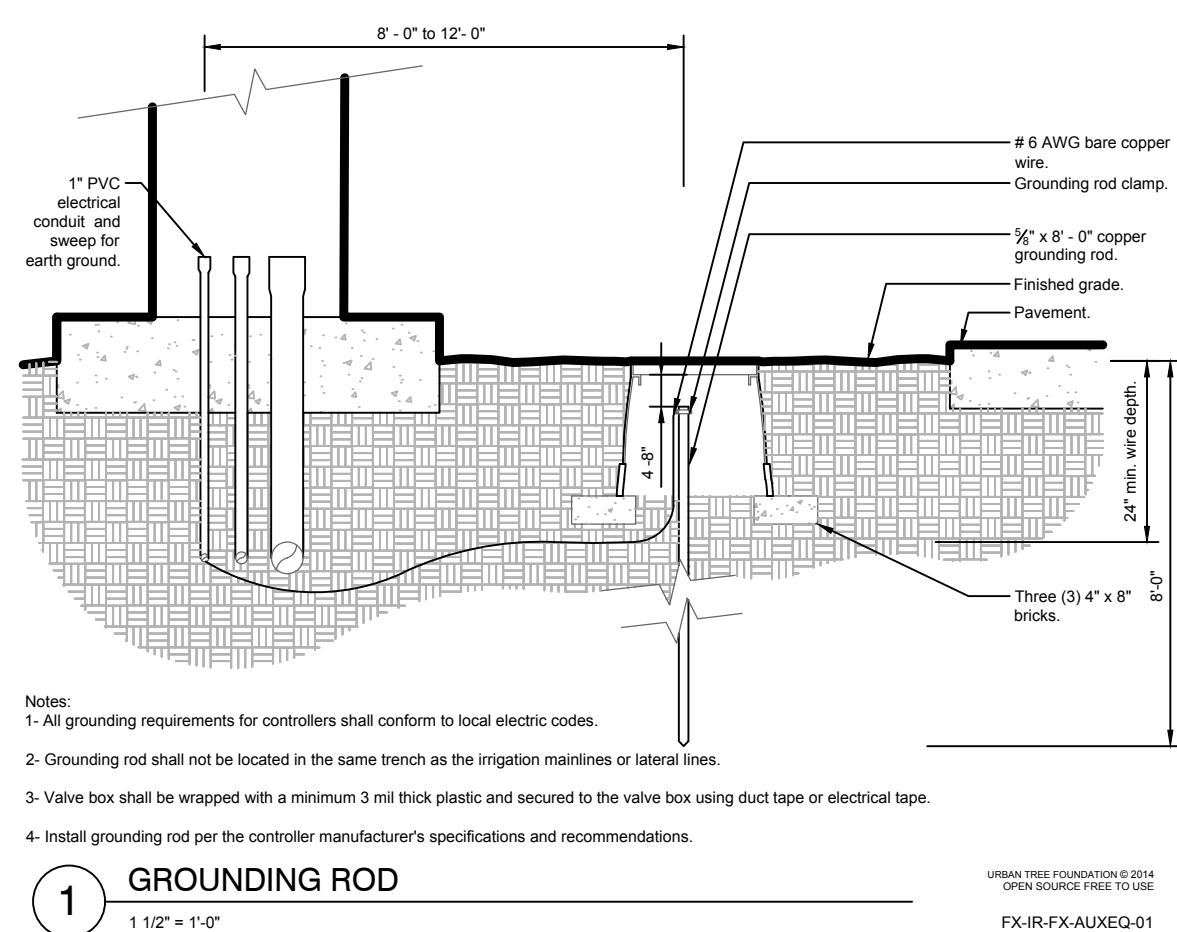
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No.	Description	Date

IRRIGATION PLAN

Project number
Date
Drawn by
Checked by
L-300
Scale



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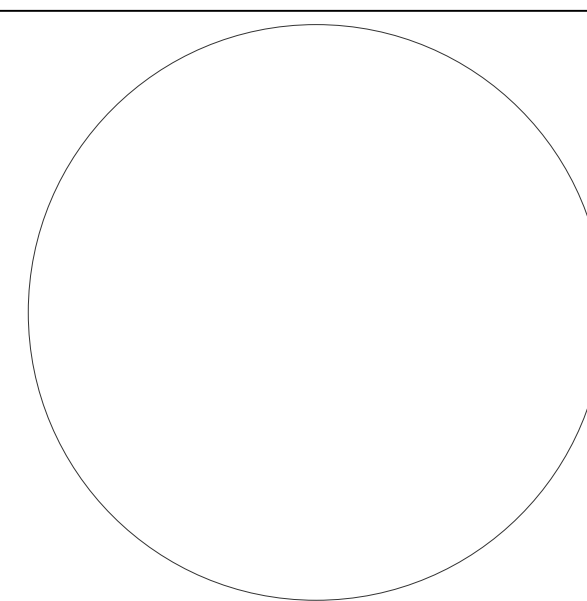


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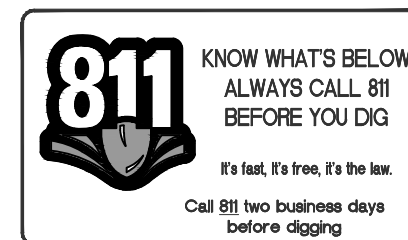
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IRRIGATION DETAILS

Project number
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L-301

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Irrigation control wire shall be thermoplastic solid copper, single conductor, low voltage irrigation controller wire, suitable for direct burial and continuous operation at rated voltages.

Number all wires, using an electrical book of numbers, according to the plans. Number wires in all valve boxes, junction boxes and at the controller.

- #14 white for common
- #14 spare black common
- #14 individual color coded hot wire
- #14 spare yellow hot wire

Controller and pump station Control Panel grounding - Contractor to utilize 4"x8"x5/8" copper grounding plates, 5/8"x10" copper clad grounding rods, "One Strike" CAD wells at all connection points, #6 insulated copper wire, and earth contact material. Install these and other required components as outlined in the detail. Contractor to verify that the earth to ground resistance does not exceed 10 ohms. Contractor shall provide a written certification, on a licensed electrical contractors letter head, showing the date of the test, controller/pump location, and test results. Each controller/pump shall be so grounded an tested. Each component must have its own separate ground grid, unless they are sitting side by side, in which case up to two controllers can share a common grounding grid.

Lay out irrigation system mainlines and lateral lines. Make the necessary adjustments as required to take into account all site obstructions and limitations prior to excavating trenches.

Spray heads shall be installed 4" from sidewalks or curbed roadways and 12" from uncurbed roadways and building foundations. Rotors shall be installed 4" from sidewalks or curbed roadways, 12" from building foundations, and 36" from uncurbed roadways.

Locate valves prior to excavation. Ensure that their location provides for easy access and that there is no interference with physical structures, plants, trees, poles, etc. Valve boxes must be placed a minimum of 12" and a maximum of 15" from the edge of pavement, curbs, etc. and the top of the box must be 2" above finish grade. No valve boxes shall be installed in turf areas without approval by the irrigation designer - only in shrub beds. Never install in sport field areas.

Sequence all valves so that the farthest valve from the POC operates first and the closest to the POC operates last. The closest valve to the POC should be the last valve in the programmed sequence.

Using an electric branding iron, brand the valve ID letter/number on the lid of each valve box. This brand must be 2"-3" tall and easily legible.

All pop-up heads and shrub risers shall be pressure compensating. All pop-up heads shall be mounted on flex-type swing joints. All rotors shall be installed with PVC triple joints unless otherwise detailed.

TRENCHING

Protect existing landscaped areas. Remove and replant any damaged plant material upon job completion. The replacement material shall be of the same genus and species, and of the same size as the material it is replacing. The final determination as to what needs to be replaced and the acceptability of the replacement material shall be solely up to the owner or owner's representative.

Solvent Weld Pipe: Cut all pipe square and deburr. Clean pipe an fittings of foreign material; then apply a small amount of primer while ensuring that any excess is wiped off immediately. Primer should not puddle or drip from pipe or fittings. Next apply a thin coat of PVC cement; first apply a thin layer to the pipe, next a thin layer inside the fitting, and finally another very thin on the pipe. Insert the pipe into the fitting. Insure that the pipe is inserted to the bottom of the fitting, then urn the pipe a $\frac{1}{4}$ turn and hold for 10 seconds, make sure that the pipe doesn't recede from the fitting. If the pipe isn't at the bottom of the fitting upon completion, the glue joint is unacceptable and must be discarded. Pipes must curve a minimum of 30 minutes prior to handling and placing into trenches. A longer curing time may be required; refer to the manufacturer's specifications. The pipe must cure a minimum of 24 hours prior to filling with water.

The back fill 6" below, 6" above, and around all piping shall be clean sand and anything beyond that in the trench can be of native material but nothing larger than 2" in diameter. All piping and excavations shall be backfilled and compacted to a density of 95% modified Proctor, or greater.

24" minimum for $\frac{3}{4}$ " - $2\frac{1}{2}$ " PVC with a 30" minimum at vehicular crossings;
30" minimum for 3" & 4" PVC with a 36" minimum at vehicular crossings

18" minimum for $\frac{3}{4}$ " - 3" PVC with a 30" minimum at vehicular crossings;
24" minimum for 4" PVC and above with a 30" minimum at vehicular crossings.

FLUSHING

Prior to the placement of heads, flush all lateral lines for a minimum of 10 minutes or until lines are completely clean of debris, whichever is longer.

TESTING

Mainline: Remove all remote control valves and cap using a threaded cap on SCH 80 nipple. Hose bibs and gate valves shall not be tested against during a pressure test unless authorized by written permission from the owner. Fill mainline with water and pressurize the system to 125 PSI. Monitor the system pressure at two gauge locations; the gauge locations must be at opposite ends of the mainline. With the same respective pressures, monitor the gauges for two hours. There can be no loss in pressure at either gauge for solvent-welded pipe.

Lateral lines: The lateral lines must be fully filled to operational pressure and visually checked for leaks. Any leaks detected must be repaired.

Upon completion of the operational test, run each zone until water begins to puddle or run off. This will allow you to determine the number of irrigation start times necessary to meet the weekly evapotranspiration requirements of the planting material in each zone. In fine sandy soils, it is possible no puddling will occur. If this is experienced, then theoretical calculations for run times will be required for controller programming.

Pre-Construction: Deliver five (5) copies of submittals to Owner's Representative within ten (10) working days from date of Notice to Proceed. Furnish information in 3-ring binder with table of contents and index sheet. Index sections for different components and label with specification section number and name of component. Furnish submittals for components on material list. Indicated which items are being supplied on catalog cut sheets when multiple items are shown on one sheet. Incomplete submittals will be returned without review. In lieu of hardcopies, an electronic package in PDF format can be submitted.

1. Irrigation As-builts - shall be provided accurately locating all mainlines, sleeves, remote control valves, gate valves, independent wire runs, wire splice boxes, controllers, high voltage supply sources/conduit path, control mechanisms, sensors, wells and water source connections. All mainline and independent runs of wire shall be located every 30' for straight runs and at every change of direction. Sleeves will be located at end points and every 20' of length. All underground items shall include depth in inch format.

3. Grounding Certification - Provide ground certification results for each controller and pump panel grounding grid installed. This must be on a licensed electrician letter head indication location tested (using IR plan symbols), date, time, test method and testing results.

1. Pre-construction meeting - Designer and contractor to review entire install process and schedule with owner/general contractor.
2. Mainline installation inspection(s) - All mainline must be inspected for proper pipe, fittings, depth of coverage, backfill and installation method.
3. Mainline pressure test - All mainline shall be pressure tested according to this design's requirements.
4. Flow meter calibration - All flow meters must be calibrated. Provide certified calibration report for all flow meters.
5. Coverage and operational test
6. Final inspection
7. Punch list inspection

Final acceptance of the irrigation system will be given after the following documents and conditions have been completed and approved. Final payment will not be released until these conditions are satisfied.

1. All above inspections are completed, documented, approved by owner.
2. Completion and acceptance of 'as-built' drawings.
3. Acceptance of required controller charts and placement inside controllers.
4. All other submittals have been made to the satisfaction of the owner.

MINIMUM RECOMMENDED IRRIGATION MAINTENANCE PROCEDURES

- SOIL MOISTURE SENSOR (When applicable)

1. Place all soil moisture sensor wiring in 1" SCH 40 PVC conduit
2. Soil moisture sensor should be placed in the middle of a spray or drip area as per manufacturer's recommendations
3. Controller shall be set to the Florida Automated Weather Network's urban scheduler settings using the SMS as a moisture cut off device (like a rain switch) per manufacturer directions.



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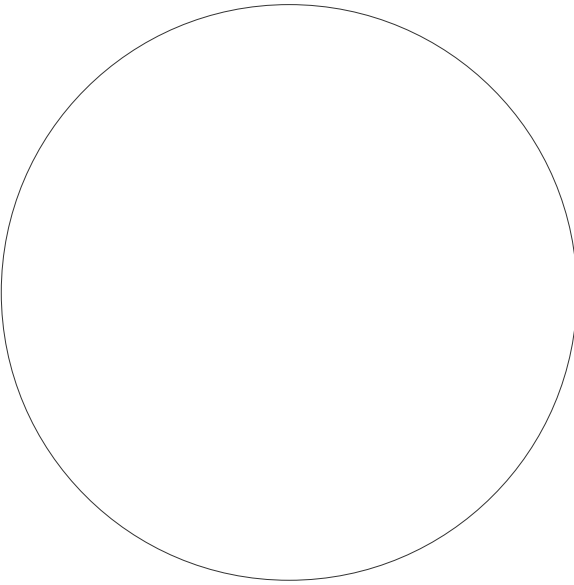


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No.	Description	Date

IRRIGATION NOTES

Project number
Date
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