

Hillside Grove

COMMUNITY LANDSCAPE ARCHITECTURE

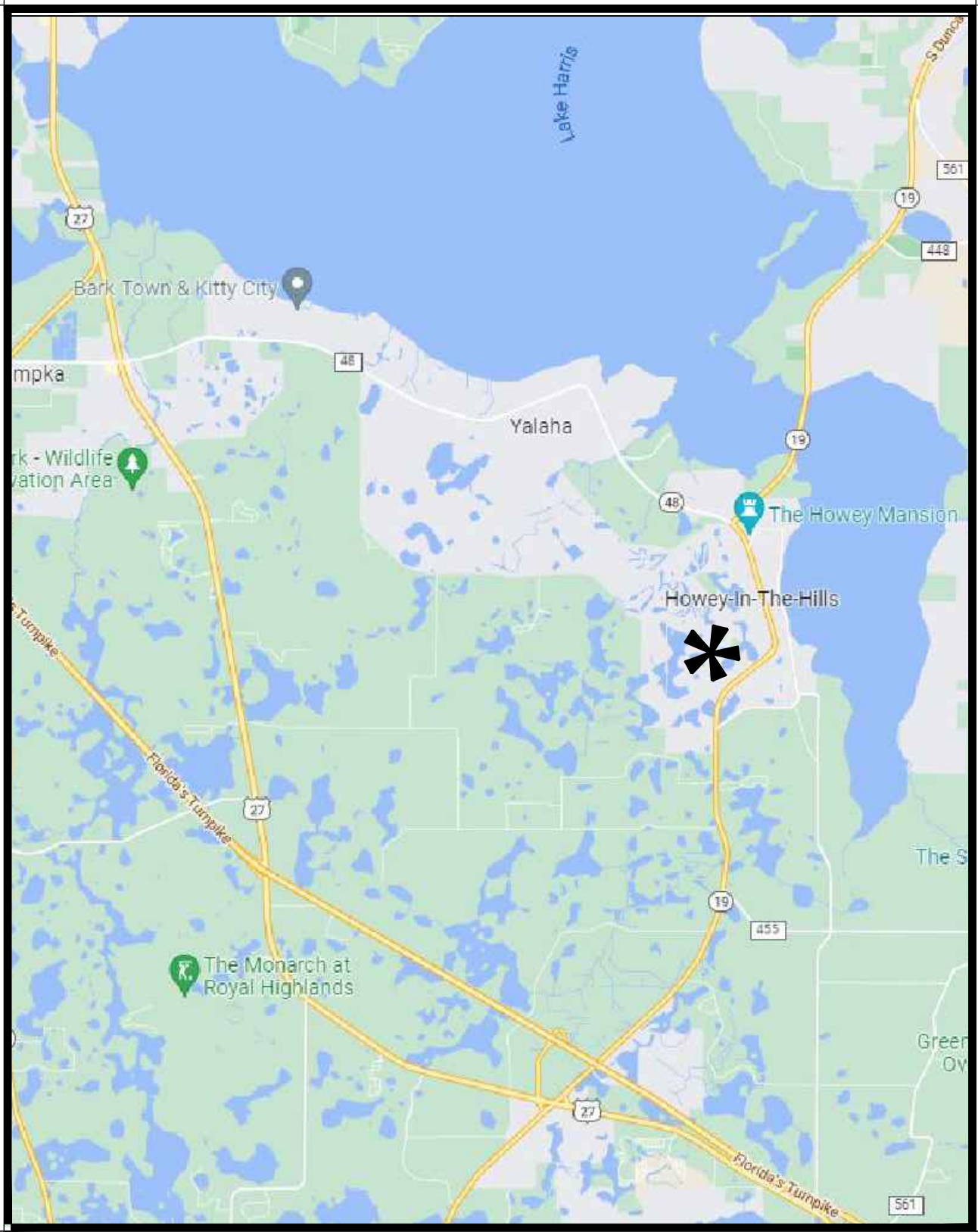
Prepared For:
LENNAR HOMES
HOWEY-IN-THE-HILLS, FLORIDA

DEVELOPER/OWNER:
LENNAR HOMES
6675 Westwood Boulevard, 5th Floor
Orlando, FL 32821
Contact: Lane Register
phone: 407.586.4062

PROJECT CIVIL ENGINEER:
CONNELLY & WICKER, INC.
10060 Skinner Lake Drive, Suite 500
Jacksonville, FL 32246
Contact: Rick Welch, P.E.
phone: 904.265.3030

LANDSCAPE ARCHITECT:
BONNETT DESIGN GROUP, LLC
400 South Orlando Ave. Suite 201
Maitland, FL 32751
Contact: Todd W. Bonnett, RLA, LEED AP, CNU-a
phone: 407.622.1588

IRRIGATION DESIGNER:
SPADE IRRIGATION DESIGN
307 Dubsdread Circle
Orlando, Florida 32804
Contact: Larry W. Spade, PLA, CID
phone: 407.896.3904



LOCATION MAP
not to scale

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Applicable Codes, Regulations, Ordinances and Standards

Town of Howey-In-the-Hills

Rev A City Comments 2022-11-17

Rev A City Comments 2022-09-29

May 27, 2022

2021.195



BONNETT design group, llc
landscape architecture . community planning
FL # LC26000341
400 South Orlando Ave. Suite 201 . Maitland, FL 32751
407.622.1588 voice . 407.358.5363 fax
www.BonnettDesignGroup.com



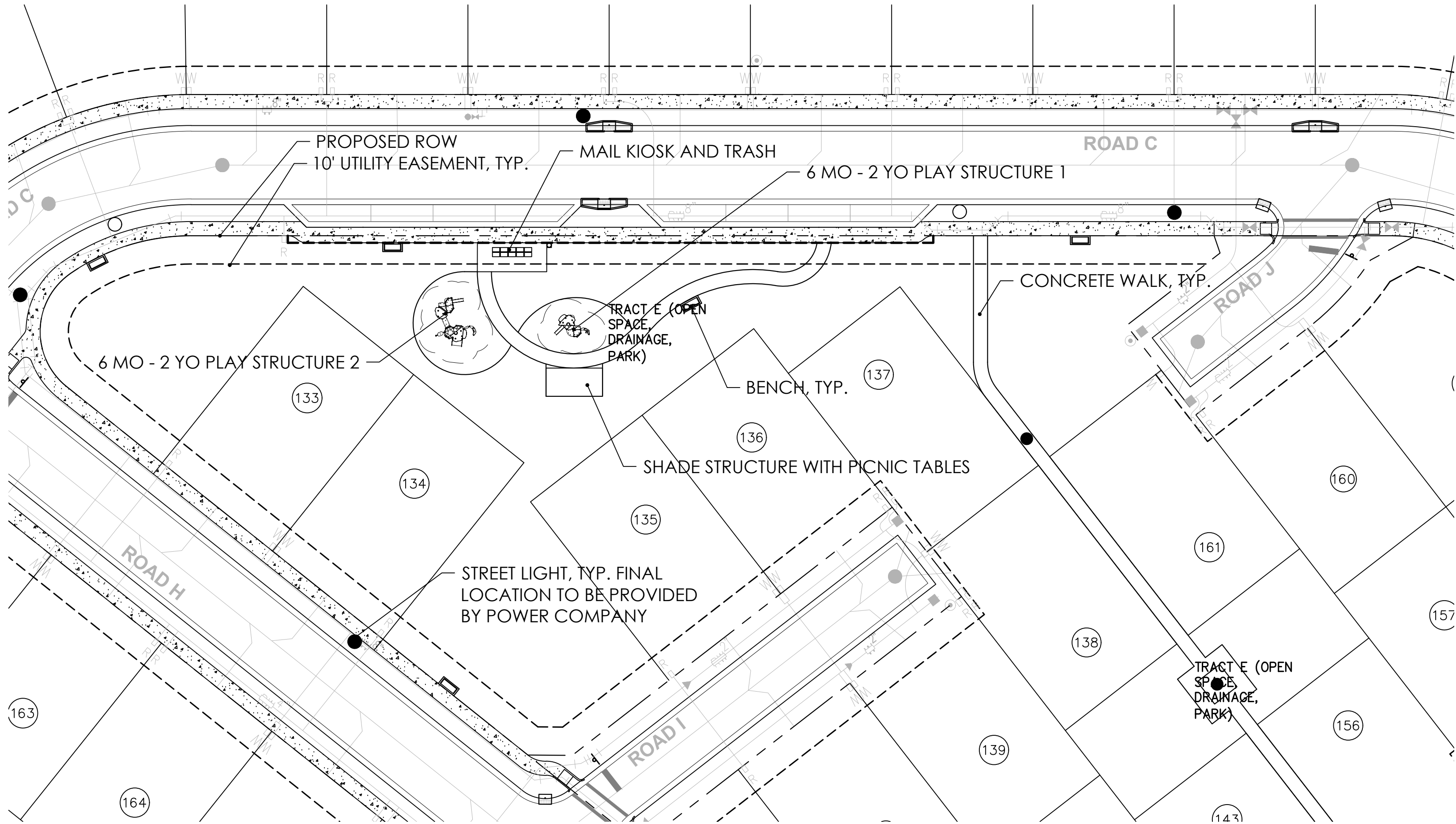
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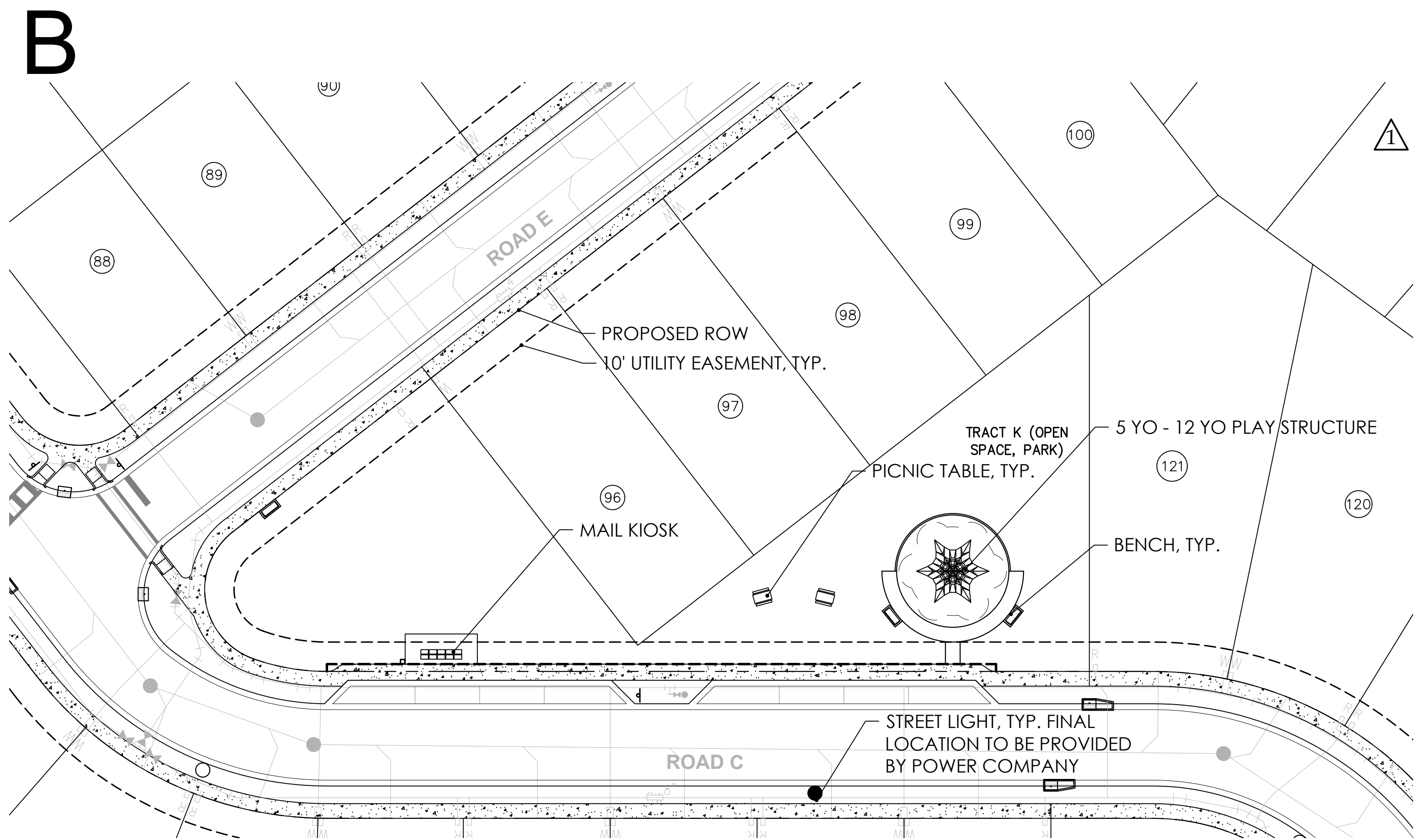
BONNETT DESIGN GROUP, LLC
400 S. ORLANDO AVE, SUITE 201
MAITLAND, FL 32751
FLORIDA REGISTRY: BONNETT DESIGN GROUP, LLC LA0001718
TODD W. BONNETT, RLA, FL LA0001718

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L401-409	LANDSCAPE PLANS
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L510	IRRIGATION DETAILS & NOTES

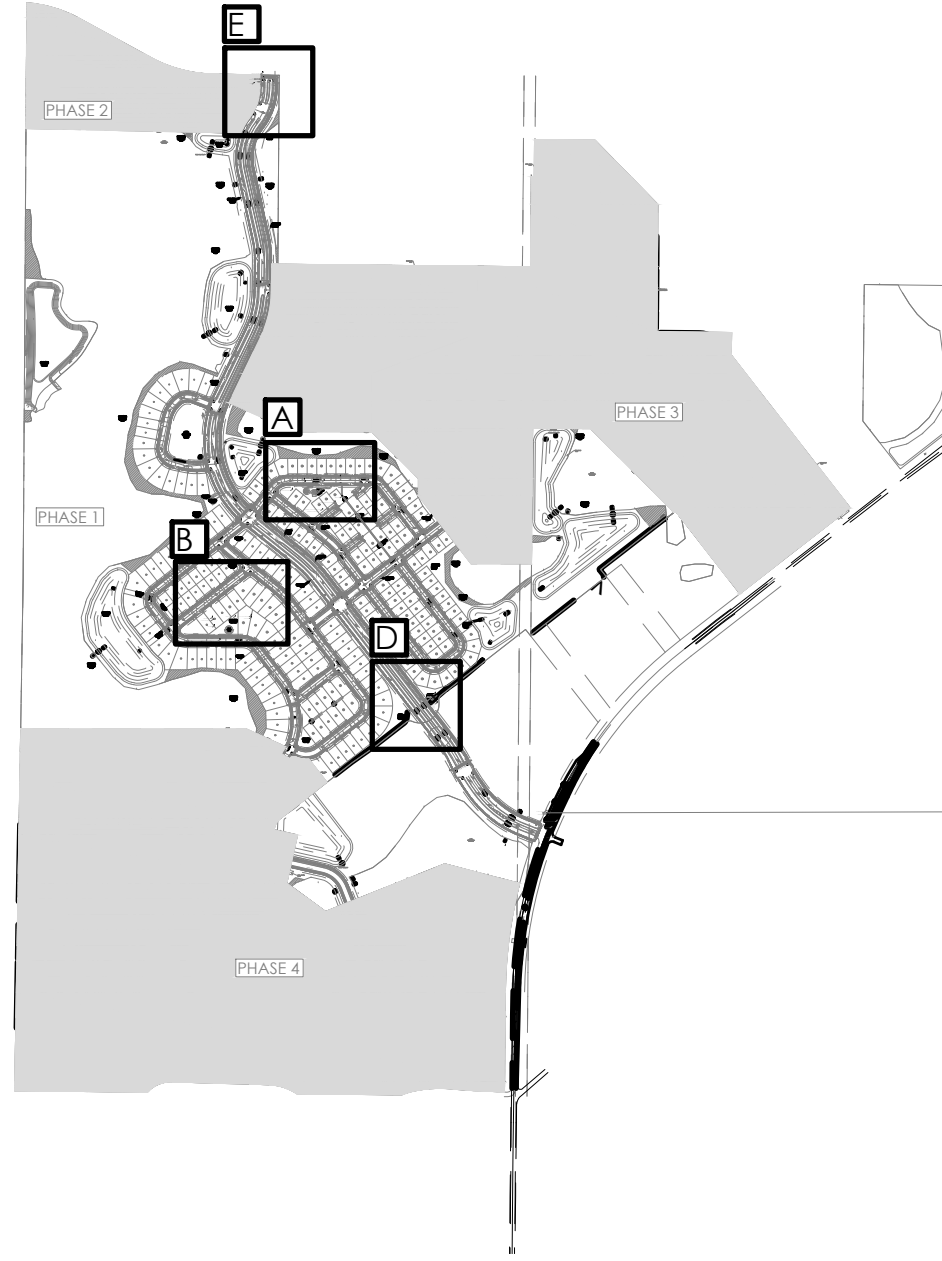
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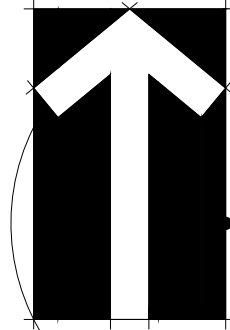
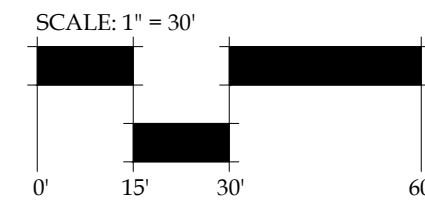
A



B



KEY MAP



SITE PLAN UPDATE



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Hillside Grove Landscape Architecture Lennar Homes HOWEY-IN-THE-HILLS, FLORIDA LAYOUT PLAN

PHASE 1

DATE: May 27, 2022

DRAWN BY: RTM

CHECKED BY: TWB

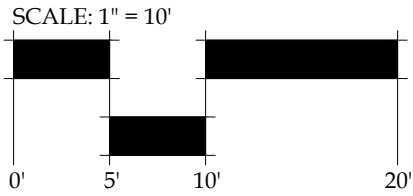
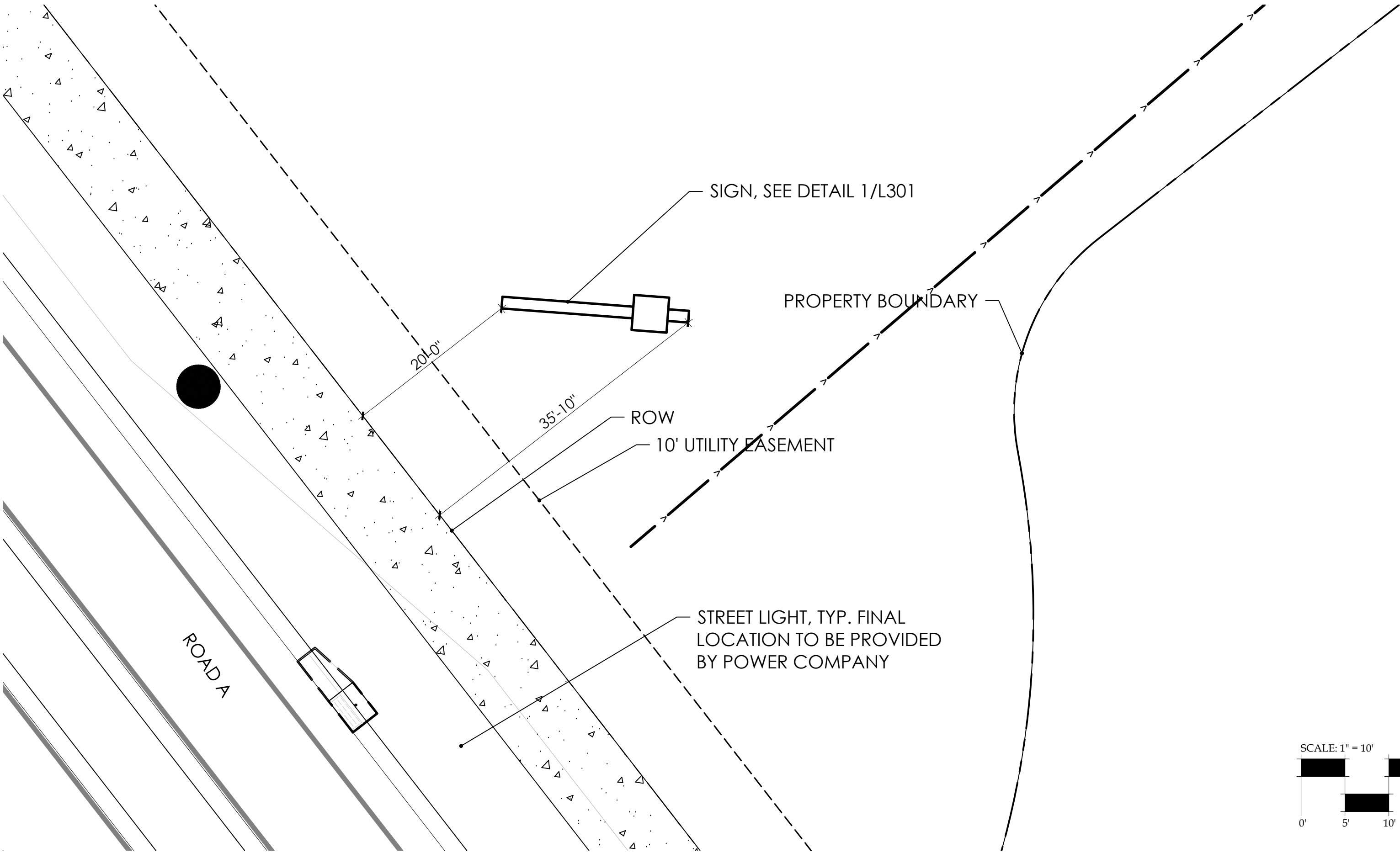
JOB NUMBER: 2021.195

FILE NAME:
2021.195_L200 - HILLSIDE GROVE_PHL_LABASE

REVISIONS:
△ City Comments 09-29-2022
△ City Comments 11-17-2022

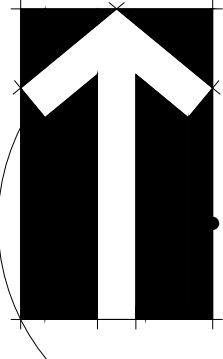
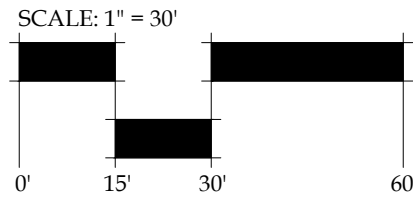
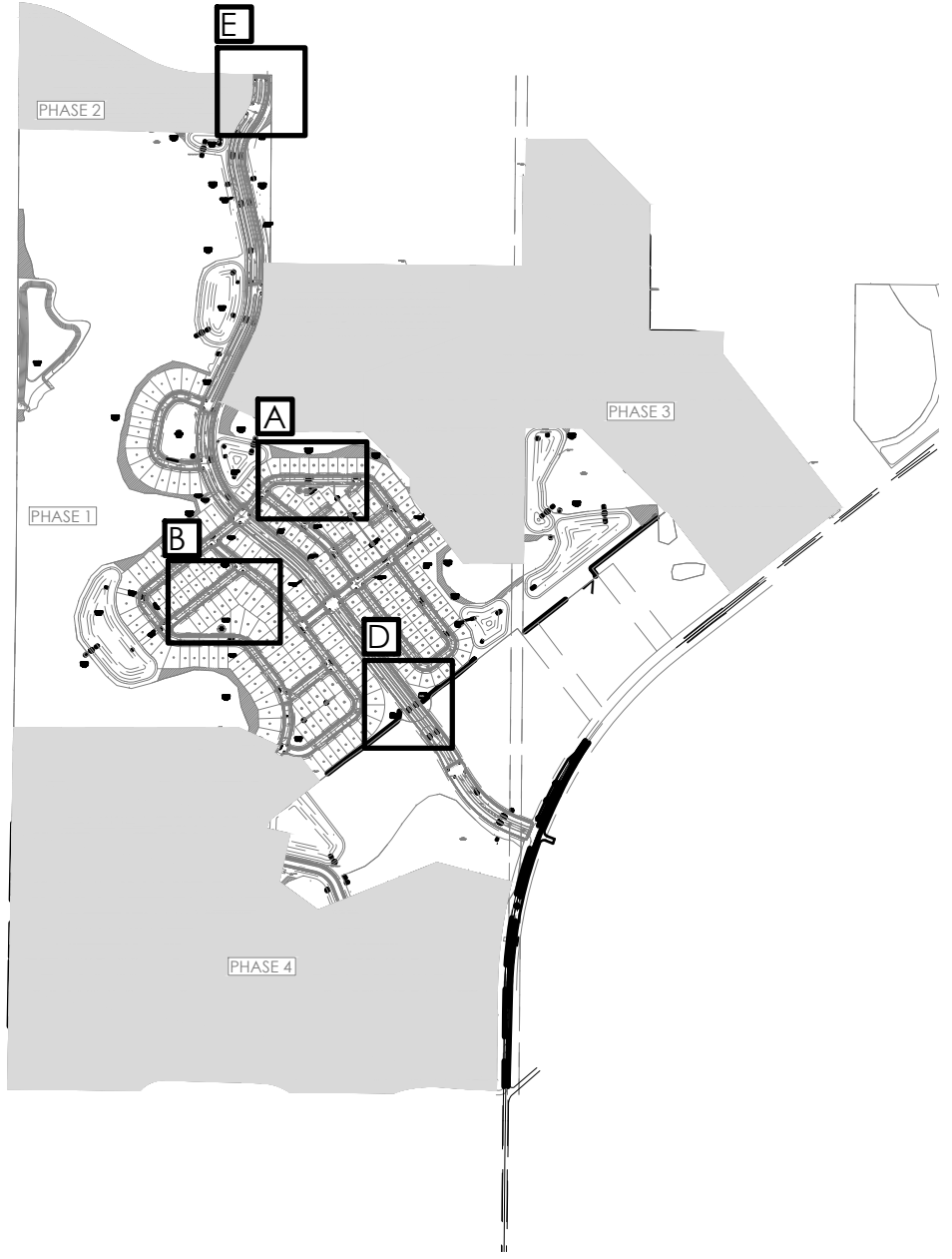
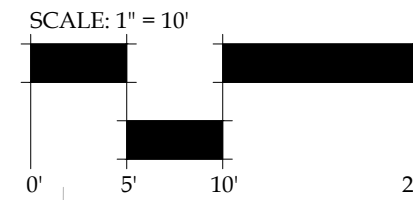
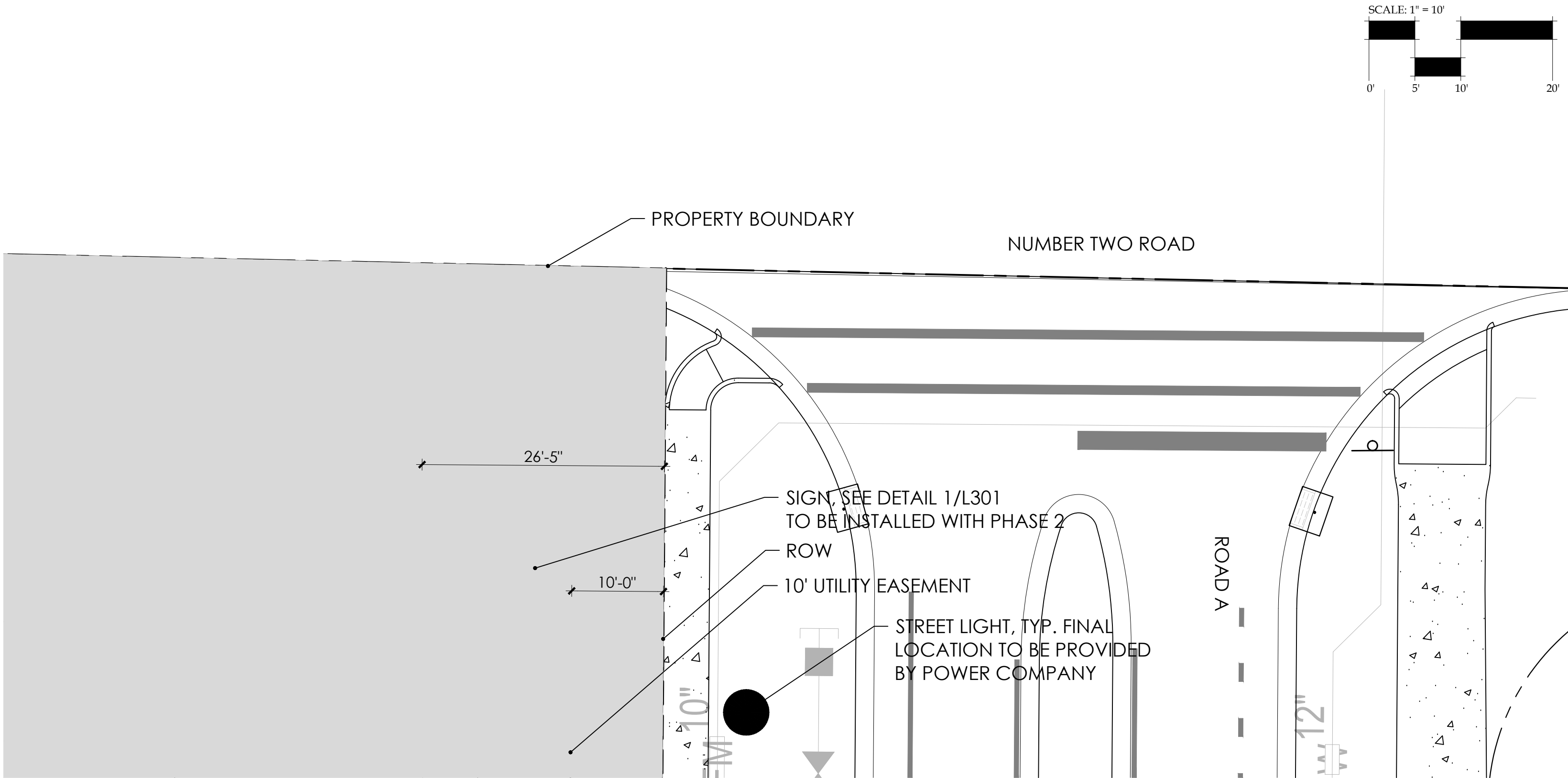
L200

Todd W. Bonnett, RLA #14000776



D

E



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Hillside Grove
Landscape Architecture
Lennar Homes
HOWEY-IN-THE-HILLS, FLORIDA
LAYOUT PLAN

PHASE 1

DATE: May 27, 2022
DRAWN BY: RTM
CHECKED BY: TWB
JOB NUMBER: 2021.195
FILE NAME: 2021.195_LEN - HILLSIDE GROVE_PH1_LABASE.DWG

REVISIONS:
1 City Comments 09-29-2022
2 City Comments 11-17-2022

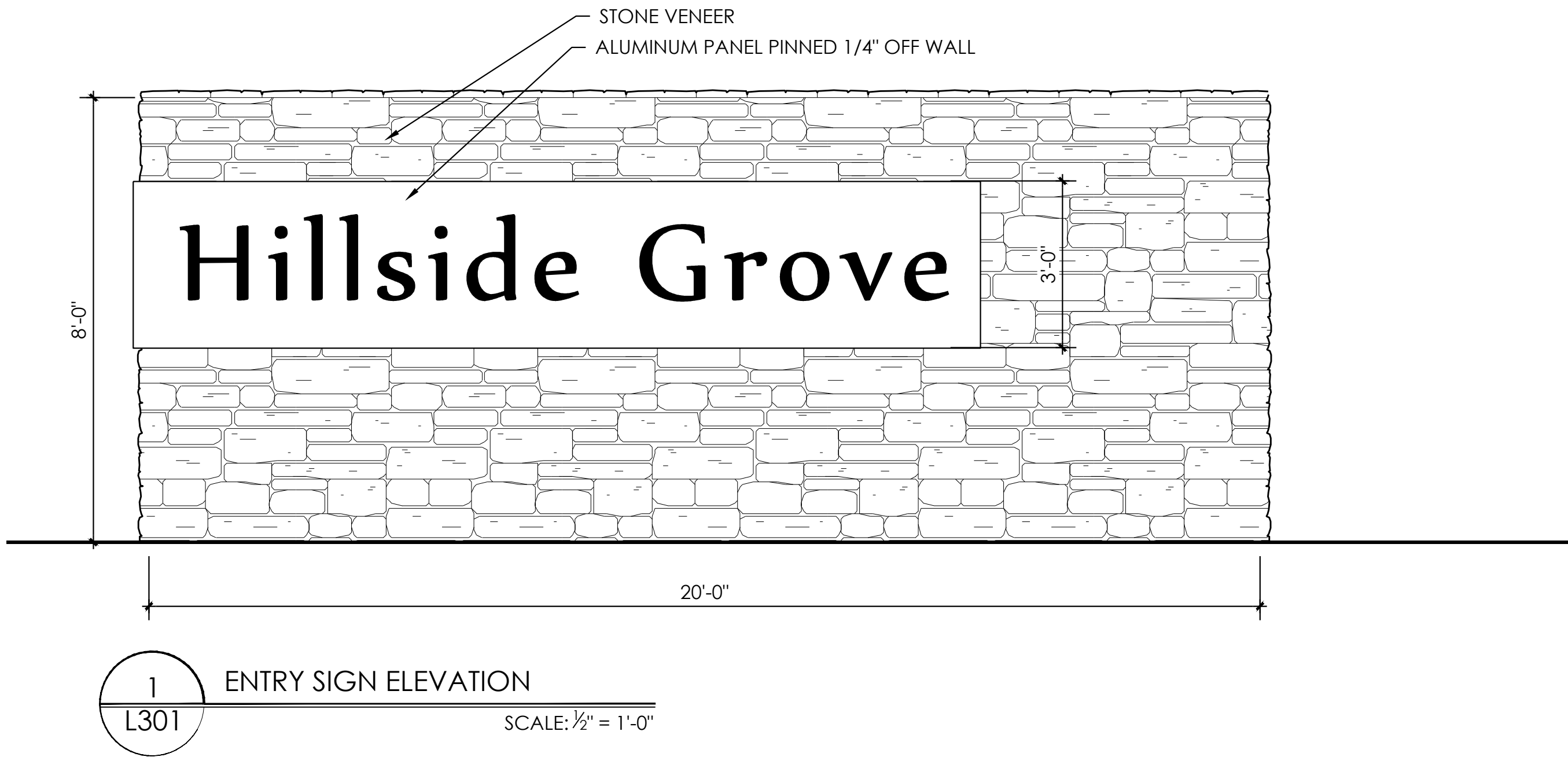
L201



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Todd W. Bonnett, RLA #LA000776

DRAWING LOCATED: 11/27/2021 3:15:50 PM
2/SHARED BONNETT DESIGN GROUP 2021.195_L301 - THE RESERVE AT HOWEY IN THE HILLS DESIGN 2021.195_L301 - HILLSIDE GROVE_PHL_HSBASE.DWG



NOTE: HARDSCAPE DESIGN PLANS PROVIDED TO DEMONSTRATE DESIGN INTENT ONLY AND ARE NOT VALID FOR CONSTRUCTION WITHOUT FINAL STRUCTURAL & REINFORCEMENT DESIGN.

Outdoor Lighting
Sanibel LED

The beauty of the stylish Sanibel LED is its remarkable versatility. Its sleek simplicity, with a gently curved bracket that helps cast light downward, is at home virtually anywhere – from more formal traditional neighborhoods to beachfront communities and other casual locales.

LED (light-emitting diode)	50, 150 watts
Mounting heights	12", 17', 25', 30'
Color	Black
Pole	Sanibel pole Promenade
Applications	Neighborhoods Parks Pathways/walkways* Shopping centers Streets

For additional information, visit us at duke-energy.com/OutdoorLighting or call us toll-free at 866.765.6417.

DUKE ENERGY
BUILDING A SMARTER ENERGY FUTURE™

2
L301
STREET LIGHT
SCALE: NTS

Roll over image to zoom in

PRODUCT DESCRIPTION

Manufactured to withstand daily commercial use, this high quality imported steel bench features a back and seat made from 1-9/16" x 3/16" welded steel bars. The arms and legs are constructed from 2" x 1/2" steel, which will provide many years of outstanding service.

- Designed to wear well with seasonal exposure
- UV stabilized, corrosion resistant powder-coating
- 6' length

*OR OWNER APPROVED EQUAL

PRODUCT: COMMERCIAL PARK BENCH WITH CURVED BACK
MODEL: CBPB-6CB-BK-BL COLOR: BLACK
AS MANUFACTURED BY BYO RECREATION (www.byoplayground.com)

3
L301
BENCH
SCALE: NTS

PRODUCT DESCRIPTION

Our ribbed steel trash receptacle offers durability and style. The slatted wave design adds a subtle and simple interest point available in a variety of colors!

- 32 gallon capacity
- 3/4 #9 expanded metal inside ribbed steel with rolled edges
- Dimensions: 25" H x 2' W x 2' D

*OR OWNER APPROVED EQUAL

PRODUCT: 32 GAL. RIBBED STEEL TRASH RECEPTACLE
MODEL: WC SERIES COLOR: VIP BLACK
AS MANUFACTURED BY BYO RECREATION (www.byoplayground.com)

4
L301
TRASH RECEPTACLE
SCALE: NTS

D006 • DOG WASTE STATION

PARTS LIST:

- Can (1)
- Post (1)
- Dispenser (1)
- Sign/Sign Bracket (1)
- Dispenser Keys (2)
- 600 Waste Bags
- 50 Can Liners
- Hardware Pack

PRODUCT: DOG WASTE STATION
MODEL: D006
AS MANUFACTURED BY TERRABOUND SOLUTIONS (www.terraboundsolutions.com)

8
L301
DOG WASTE STATION
SCALE: NTS

Available Colors

1 / 5 / 2022

2
L301
5-12 YO PLAY STRUCTURE
SCALE: NTS

PRODUCT: SMALL HEXAGONAL SPACENET
MODEL: COR36331
AS MANUFACTURED BY KOMPAN (www.kompan.com)
*OR OWNER APPROVED EQUAL

Item no. PCE100100-0602
General Product Information
Color options
Dimensions LxWxH 120"x95"x11'3"
Age group 6m - 2
Play capacity (users) 15

1 / 5 / 2022

2
L301
6 MO - 2 YO PLAY STRUCTURE 1
SCALE: NTS

PRODUCT: VOYAGER
MODEL: PCE1001
AS MANUFACTURED BY KOMPAN (www.kompan.com)
*OR OWNER APPROVED EQUAL

Item no. PCE200200-0602
General Product Information
Color options
Dimensions LxWxH 18'4"x12'2"x10'1"
Age group 6m - 2
Play capacity (users) 28

The Voyager with its round shapes and bright colors is immensely attractive for young children. Once there, the richness of age-appropriate activities sustains the playing and encourages them to return. The Voyager's three levels offer layers of play starting from ground level and up to the elevated platform with a slide. The ground level sand play funnels stimulate the children's object permanence understanding and logical thinking skills. The panels have movable items that run in grooves and can be played with from both inside and outside the structure, training the children's fine motor skills as well as their logical thinking and turn-taking skills. The slide down is a fun reward for climbing up and additionally develops the toddlers sense of balance and the spatial awareness.

1 / 5 / 2022

2
L301
6 MO - 2YO PLAY STRUCTURE 2
SCALE: NTS

PRODUCT: TUMBLER
MODEL: PCE2002
AS MANUFACTURED BY KOMPAN (www.kompan.com)
*OR OWNER APPROVED EQUAL

Item no. PCE200200-0602
General Product Information
Color options
Dimensions LxWxH 18'4"x12'2"x10'1"
Age group 6m - 2
Play capacity (users) 28

The developing youngster finds the Tumbler challenging and supportive of their most important developmental areas, inviting them to play for hours. The rich, roomy platforms offer tactile and responsive play panels. These invite exploring and train fine motor and cognitive skills such as logical thinking. The bouncy and rocking rubber support the vigorous tumbling activities, such as a gentle sway. The tunnel requires that children crawl and this development of cross-coordination of hands and knees is important for later literacy and offers tables and a play panel that trains fine motor skills. In addition, it provides a quieter rocking rubber support for the vigorous tumbling activities, such as taking turns.

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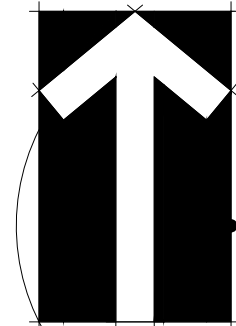
Hillside Grove
Landscape Architecture
Lennar Homes
HOWEY-IN-THE-HILLS, FLORIDA
HARDSCAPE DESIGN PLAN

PHASE 1

DATE: May 27, 2022
DRAWN BY: RTM
CHECKED BY: TWB
JOB NUMBER: 2021.195
FILE NAME: 2021.195_L301 - HILLSIDE GROVE_PHL_HSBASE

REVISIONS:
City Comments 09-29-2022
City Comments 11-17-2022

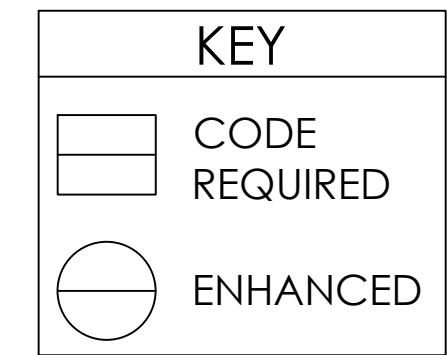
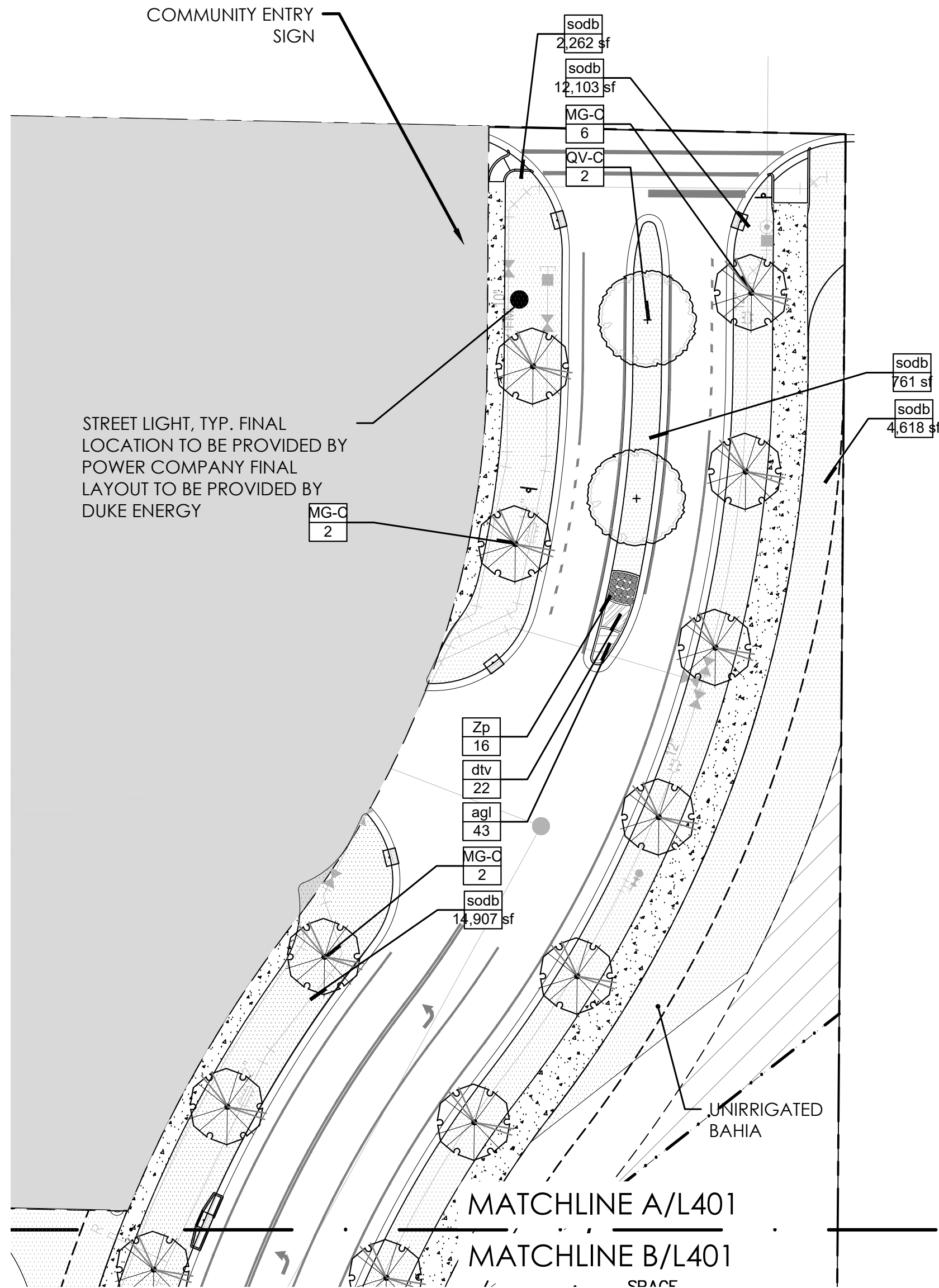
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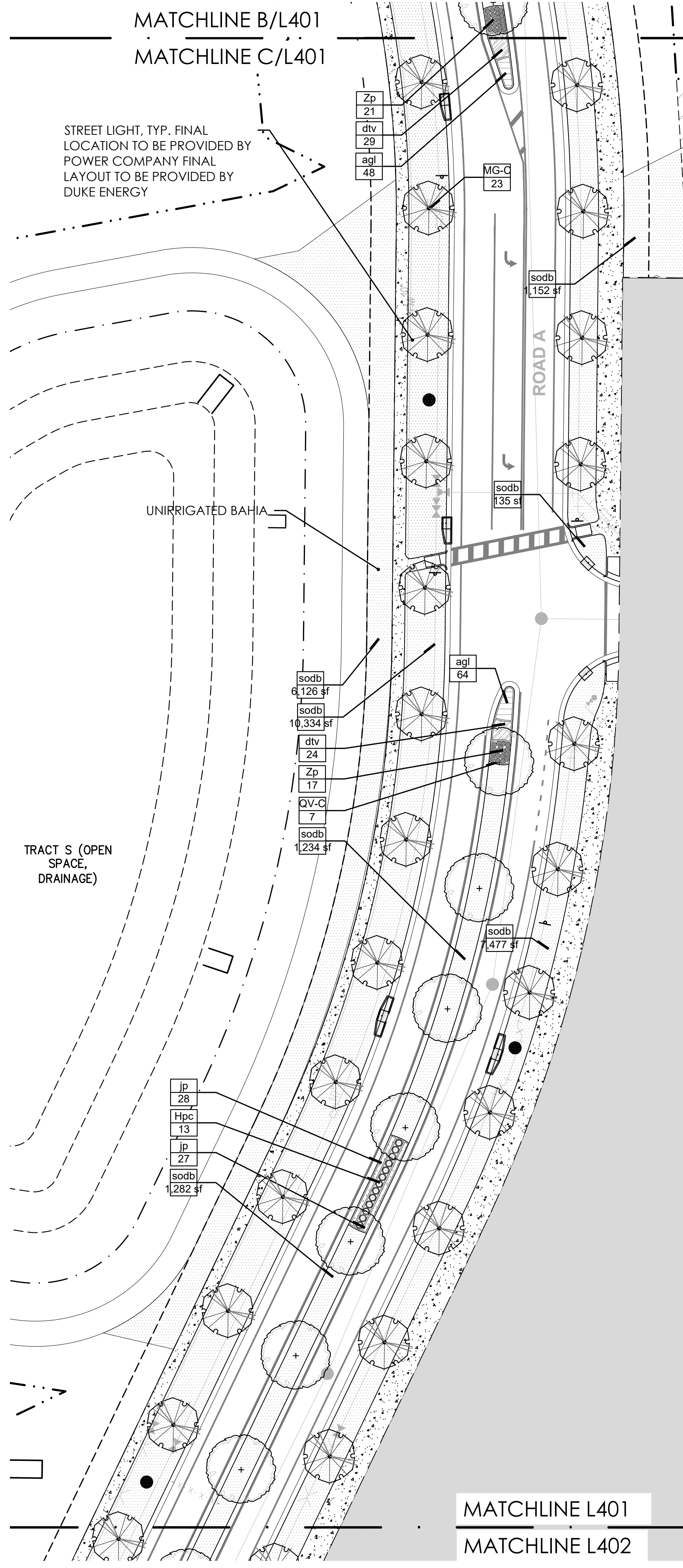
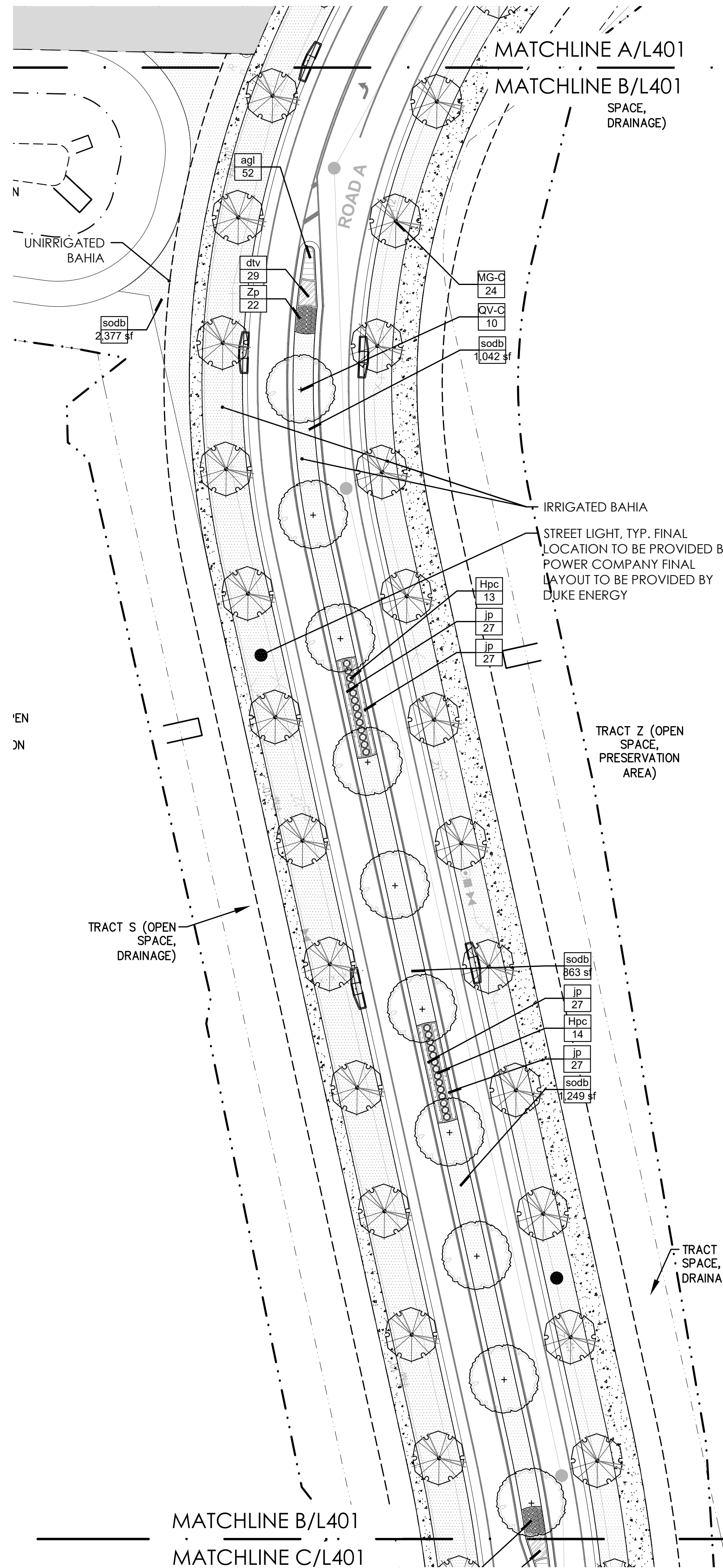
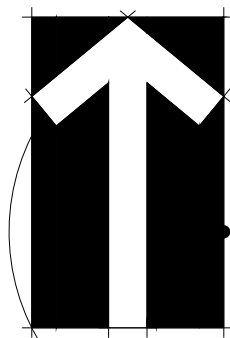
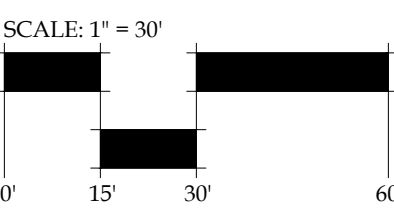
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SITE PLAN UPDATE



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407.622.1588 voice

Hillside Grove

Landscape Architecture

Lennar Homes

HOWEY-IN-THE-HILLS, FLORIDA

LANDSCAPE PLAN

PHASE 1

DATE: May 27, 2022

DRAWN BY: RTM

CHECKED BY: TWB

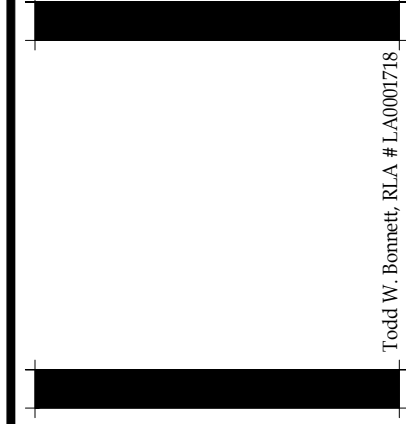
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REVISIONS:

△ City Comments 09-29-2022

△ City Comments 11-17-2022



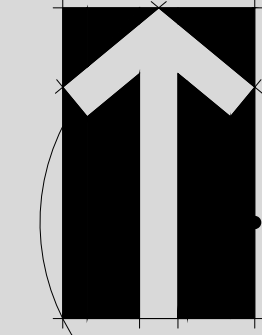
L401

Todd W. Bonnett, RLA #14000776

MATCHLINE L401

MATCHLINE L402

Time (minutes)	Number of people
0	2
15	1
30	2
60	2



TRACT S (OF
SPACE,
DRAINAGE)

STREET TREES ON LOTS SHALL BE
INSTALLED AT TIME OF HOME
DEVELOPMENT, TYP.

AMENITY
PARCEL
TRACT R (OPEN
SPACE,
AMENITY)

AMENITY CENTER WILL REQUIRE
A SITE PLAN APPROVAL PER THE
TOWN REQUIREMENTS

TRACT W (OPEN
SPACE,
PRESERVATION
AREA)

KEY	
	CODE REQUIRED
	ENHANCED

SITE PLAN UPDATE

MATCHLINE L402
MATCHLINE L403

MATCHLINE L402
MATCHLINE L403

242



0 South Orlando Ave. Suite 201
Maitland, FL 32751
407.622.1588 voice

Hillside Grove
Landscape Architecture
Lennar Homes
HOWEY-IN-THE-HILLS, FLORIDA
LANDSCAPE PLAN

PHASE 1

FILE NAME:
5_LEN - HILLSIDE GROVE_PH1_LABASE

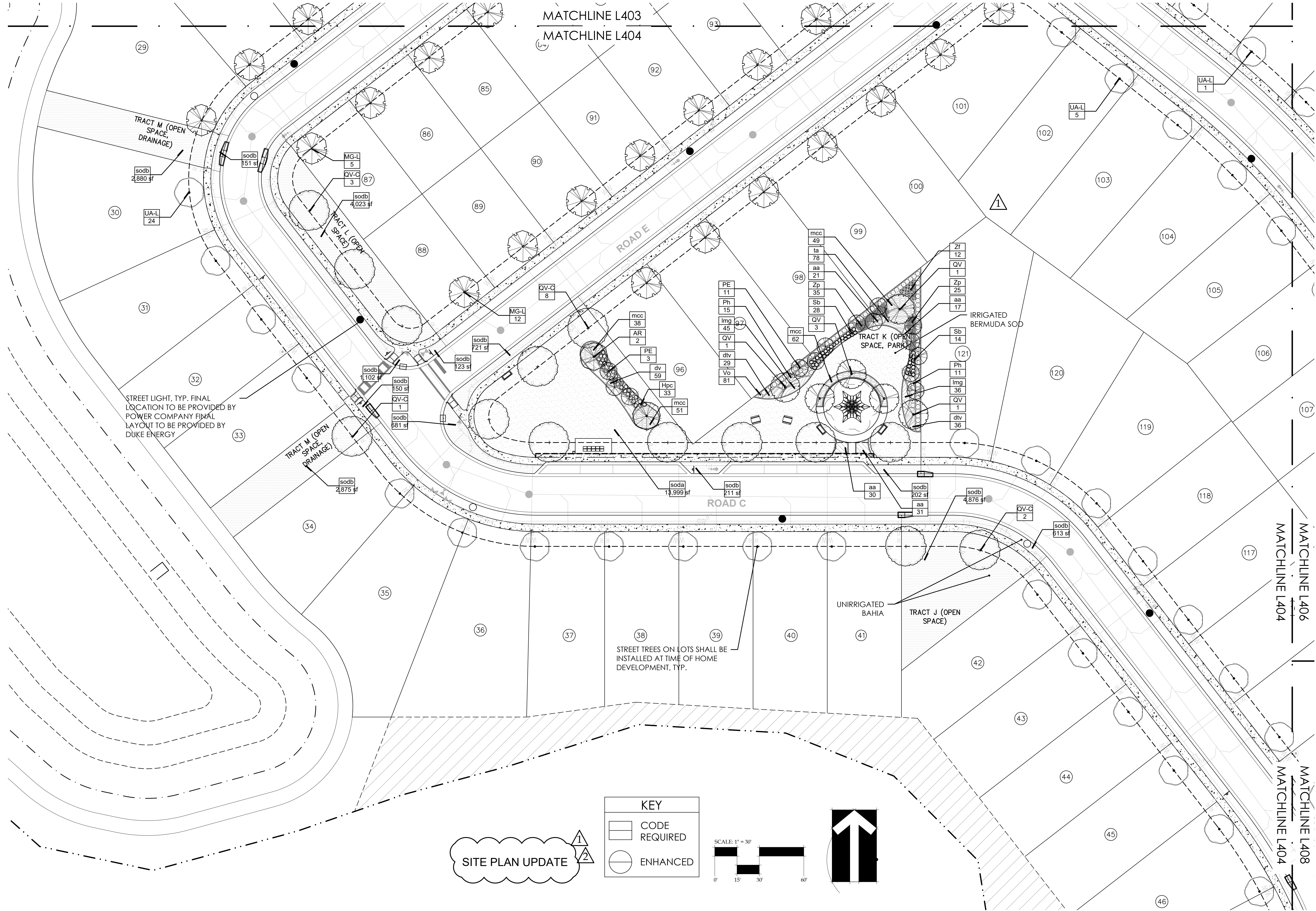
- Δ City Comments 09-29-2022
- Δ City Comments 11-17-2022

Fodd W. Bennett, RLA # L.A0001718-1

L402

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Hillside Grove

Landscape Architecture

Lennar Homes

HOWEY-IN-THE-HILLS, FLORIDA

LANDSCAPE PLAN

PHASE 1

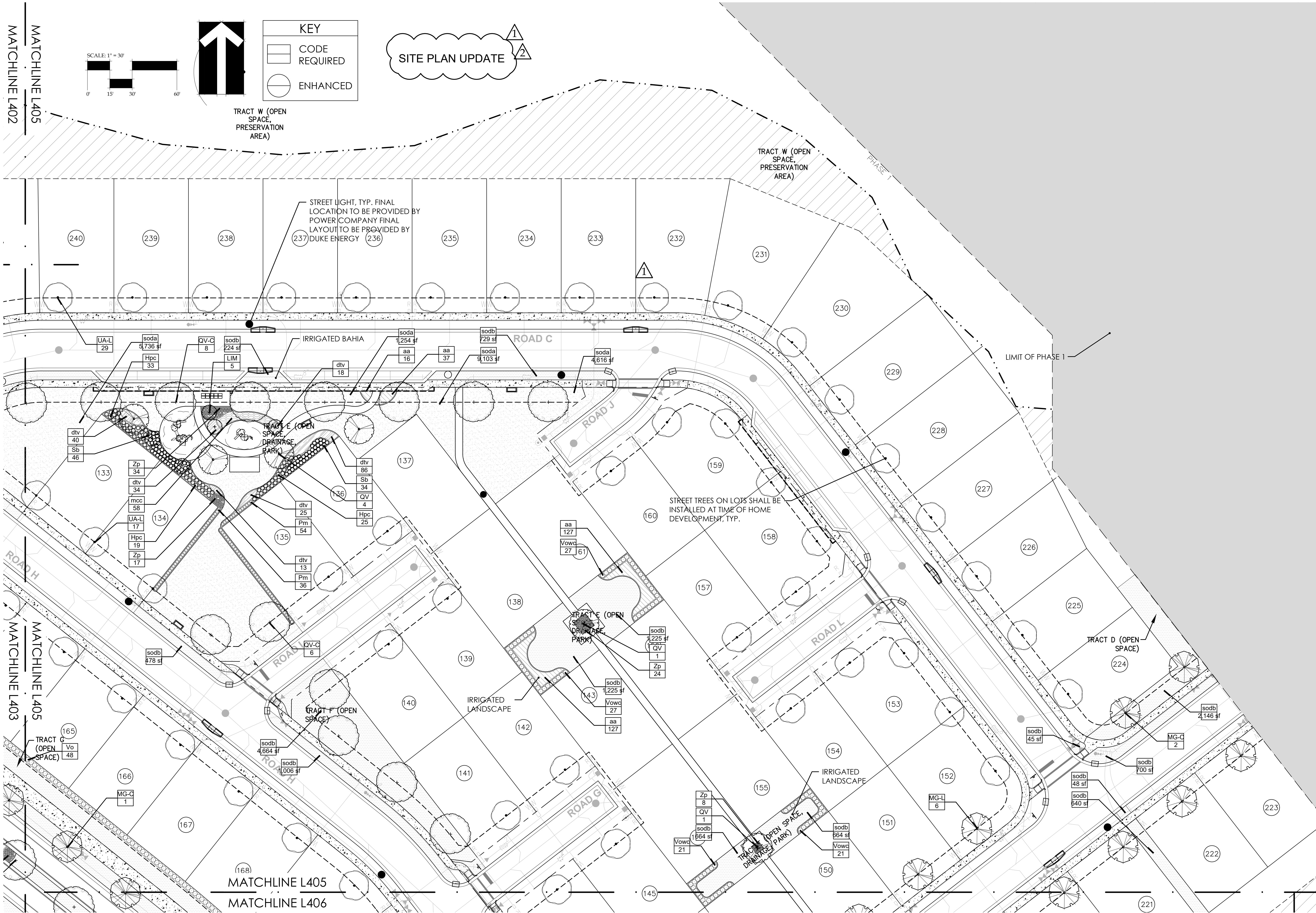
DATE: May 27, 2022
DRAWN BY: RTM
CHECKED BY: TWB
JOB NUMBER: 2021.195
FILE NAME: 2021.195_LIN - HILLSIDE GROVE_PHL_LABASE

REVISIONS:

- City Comments 09-29-2022
- City Comments 11-17-2022

L404

Todd W. Bonnett, RLA #14000776



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Hillside Grove
Landscape Architecture
Lennar Homes
HOWEY-IN-THE-HILLS, FLORIDA
LANDSCAPE PLAN

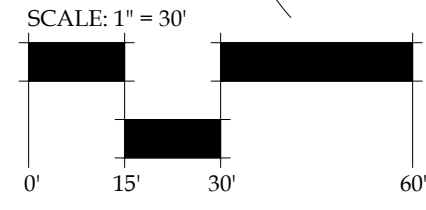
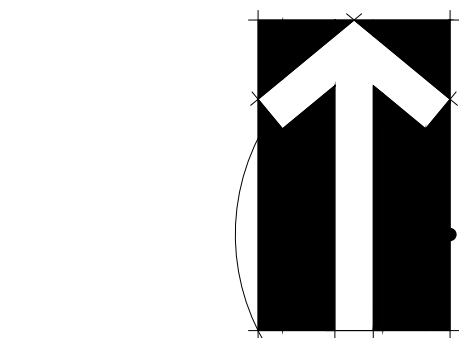
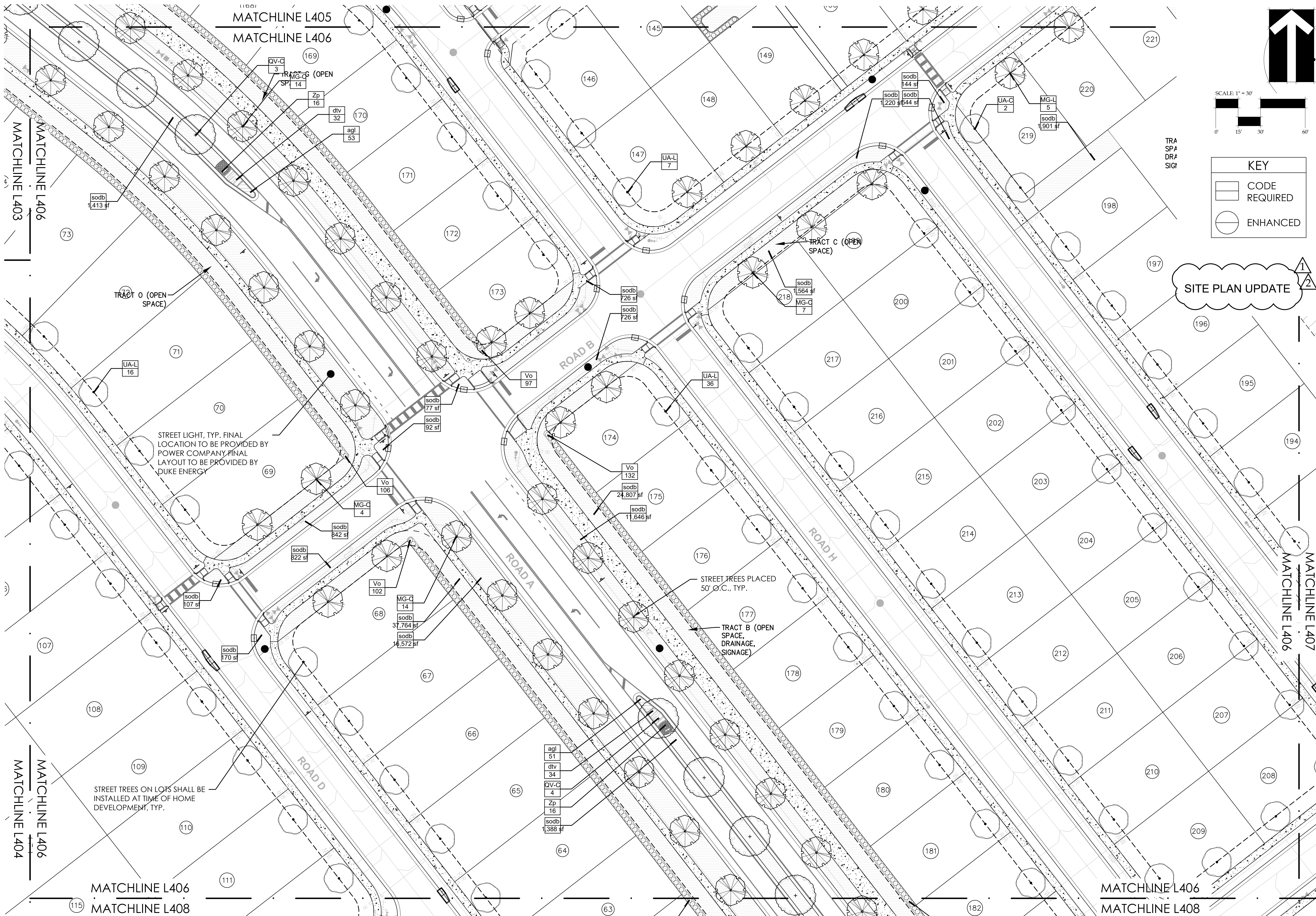
PHASE 1

DATE: May 27, 2022
DRAWN BY: RTM
CHECKED BY: TWB
JOB NUMBER: 2021.195
FILE NAME: 2021.195_L405 - HILLSIDE GROVE_PH_LABASE

REVISIONS:
△ City Comments 09-29-2022
△ City Comments 11-17-2022

Todd W. Bonnett, RLA #14000776

L405



KEY	
	CODE REQUIRED
	ENHANCED

SITE PLAN UPDATE

1
2



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HOWEY-IN-THE-HILLS, FLORIDA

LANDSCAPE PLAN

PHASE 1

DATE: May 27, 2022
DRAWN BY: RTM
CHECKED BY: TWB
JOB NUMBER: 2021.195
FILE NAME: 2021.195_LEN - HILLSIDE GROVE_PH1_LABASE.DWG

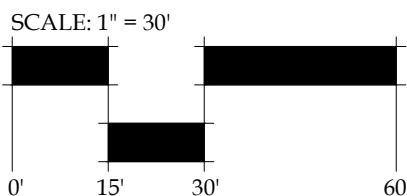
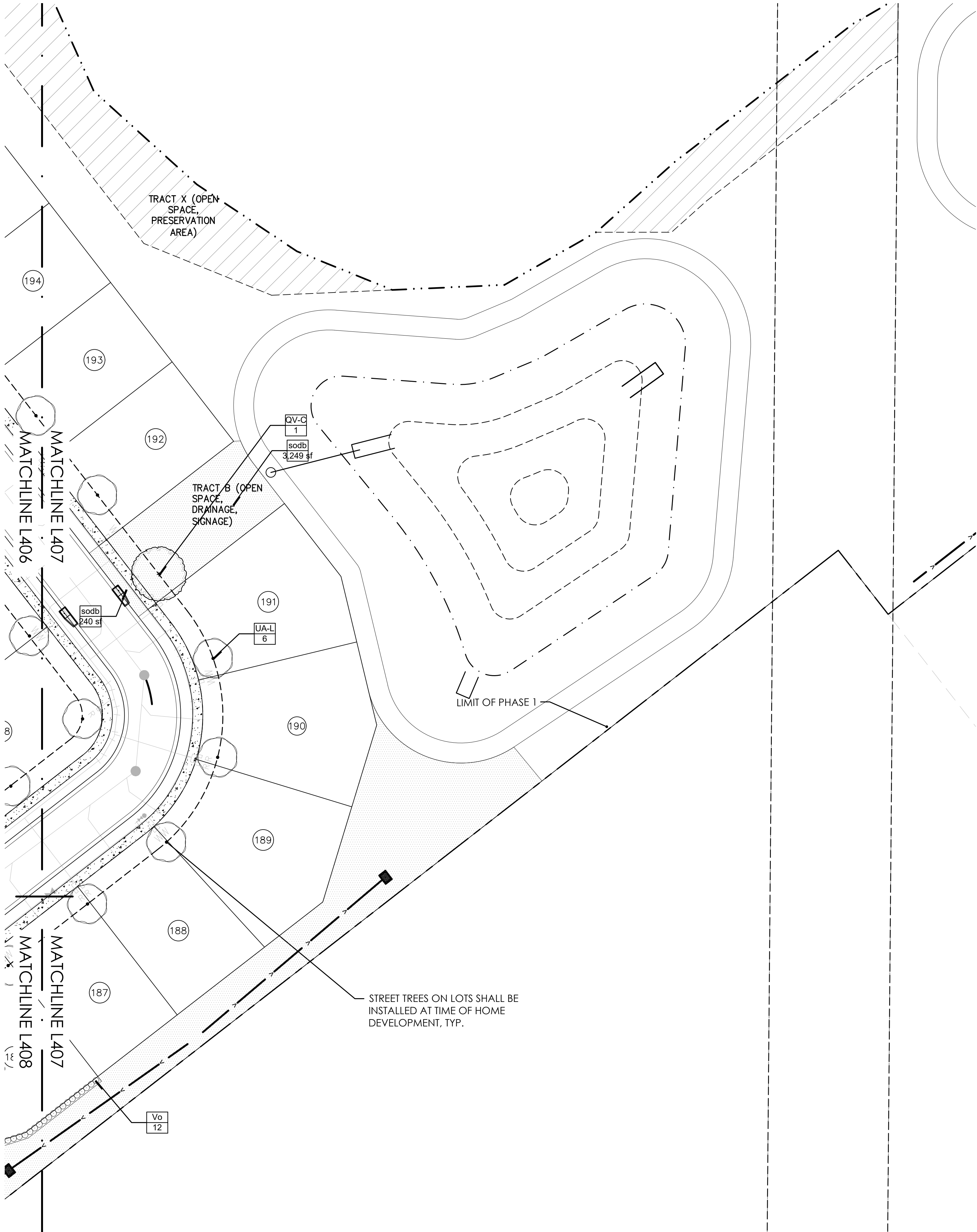
REVISIONS:	
1	City Comments 09-29-2022
2	City Comments 11-17-2022

L406

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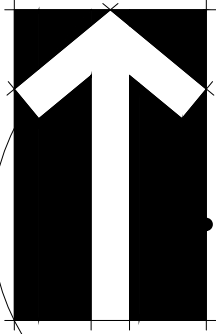
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SITE PLAN UPDATE

KEY	
	CODE REQUIRED
	ENHANCED



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Hillside Grove

Landscape Architecture

Lennar Homes

HOWEY-IN-THE-HILLS, FLORIDA

LANDSCAPE PLAN

PHASE 1

DATE: May 27, 2022
DRAWN BY: RTM
CHECKED BY: TWB
JOB NUMBER: 2021.195
FILE NAME: 2021.195_LEN - HILLSIDE GROVE_PHL_LABASE

REVISIONS:
1 City Comments 09-29-2022
2 City Comments 11-17-2022

Todd W. Bonnett, RLA #14000776

L407

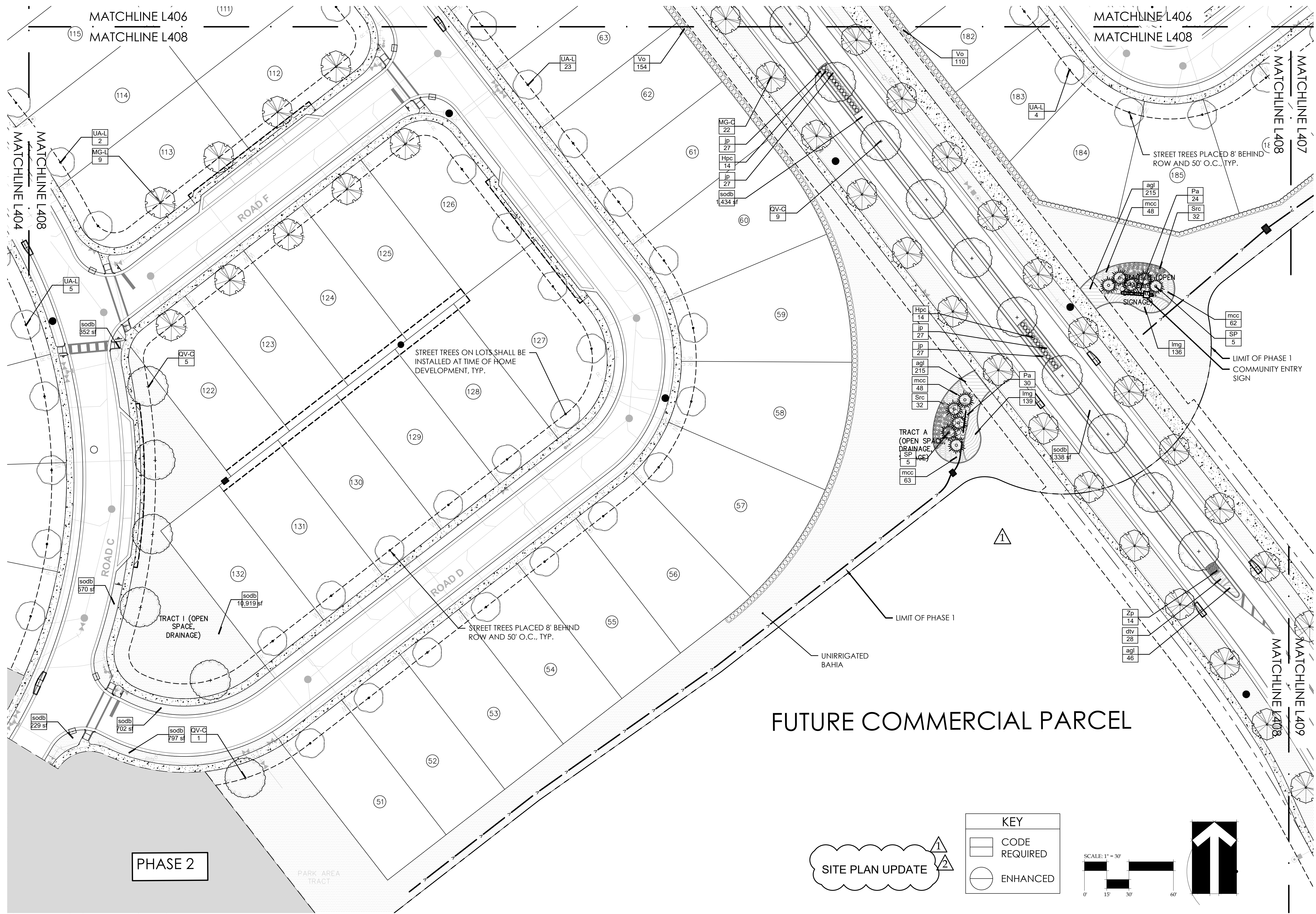
Hillside Grove
Landscape Architecture
Lennar Homes
HOWEY-IN-THE-HILLS, FLORIDA
LANDSCAPE PLAN

PHASE 1

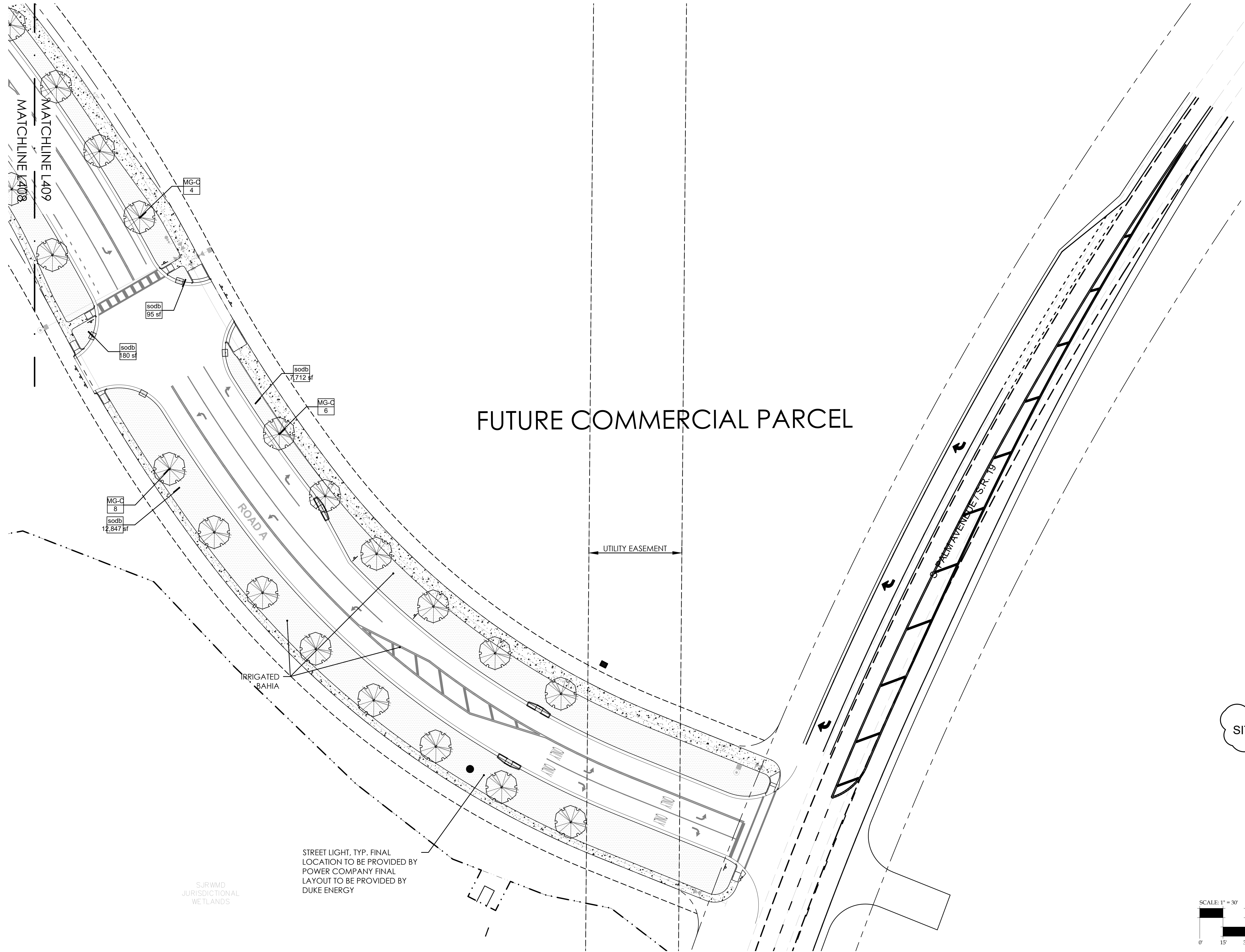
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City Comments 09-29-20
City Comments 11-17-20

408



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SITE PLAN UPDATE

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	CODE REQUIRED
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Hillside Grove Landscape Architecture Lennar Homes HOWEY-IN-THE-HILLS, FLORIDA LANDSCAPE PLAN

PHASE 1

DATE: May 27, 2022
DRAWN BY: RTM
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JOB NUMBER: 2021.195
FILE NAME: 2021.195_LEN - HILLSIDE GROVE_PHL_LABASE

REVISIONS:
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2 City Comments 11-17-2022

Todd W. Bonnett, RLA #14000776

L409

GENERAL REQUIREMENTS

The Landscape Contractor shall be responsible for all materials and all work as called for on the landscape plans. The list of plant quantities accompanying the plans shall be used as guide only. If a discrepancy occurs between the plans and the plant list, the plans shall control.

The Landscape Contractor shall warranty all trees for a period of one (1) year and shrubs and ground covers for a period of six (6) months from the time of final acceptance by Owner and Landscape Architect.

The Landscape Contractor shall be wholly responsible for the stability and plumb condition of all trees and shall be legally liable for any damage caused by the instability of any plant material. Staking of trees and palms, if required, shall be done utilizing a method agreed upon by the Landscape Architect.

The Landscape Contractor shall research plans and contact appropriate agencies to determine the location of any utilities and obstructions prior to commencing work. Any utilities or unanticipated obstructions shall be reported to Landscape Architect or Owner immediately.

All plant material and sodded areas shall have an automatic underground irrigation system providing 100% coverage.

Positive drainage shall be maintained away from all structures on the site.

PLANT SPECIFICATIONS

All nursery stock plant material shall be Florida #1 or better in accordance with Grades and Standards for Nursery Plants Parts I & II, latest edition as published by the Florida Department of Agriculture and Consumer Services- Division of Plant Industry.

All plant material shall be planted, fertilized and mulched as per the plant details and planting specifications noted on the plans.

All container grown material shall be healthy, vigorous, well rooted plants, and established in the container in which they are delivered to the site. The plants shall have tops which are good quality and in a healthy growing condition. Established container grown plant material shall be grown in that container sufficiently long enough for the new fibrous roots to have developed enabling the root mass to retain it's shape when removed the container. Plants which have become root bound in the container are unacceptable.

All plant material that is not container grown shall be freshly dug, sound, healthy, vigorous, well branched, and free of disease and insect eggs and larvae, and shall have adequate root systems. Where any requirements are omitted from the plant list, the plants furnished shall be normal for the variety. Plants may be pruned prior to delivery only upon the approval of the Landscape Architect.

FERTILIZER

Two fertilizers shall be used on all types of plantings, except palms. Granular fertilizer shall be uniform in composition, dry and free flowing. This fertilizer shall be delivered to the site in the original unopened bags bearing the manufacturer's statement of analysis. Granular fertilizer shall be a controlled release variety meeting the following requirements: sixteen percent (16%) nitrogen, four percent (4%) phosphorus, eight percent (8%) potassium, plus iron. tablet fertilizer ("Agriform" or approved equal) in 21 gram size shall meet the following requirements: twenty percent (20%) nitrogen, ten percent (10%) phosphorus, five percent (5%) potassium.

Application Rates:

Plant size	16-4-8	"Agriform" tablet (21 grams)
1 gallon	1/4 lb.	1 tablet
3 gallon	1/3 lb.	2 tablets
7-15 gallon	1/2 lb.	4 tablets
1" - 6" caliper	2 lbs. per 1" caliper	2 tablets per 1" caliper
6" + caliper	3 lbs. per 1" caliper	2 tablets per 1" caliper

Sodded areas shall receive an application of the granular fertilizer (16-4-8) at a rate of 1/2 lb. of Nitrogen per 1,000 square feet of sod area.

"Palm Special" fertilizer shall be applied to all palms at installation at a rate of 1 1/2 lbs. per 100 square feet of canopy area. Palm fertilizer shall be a controlled release variety containing chelated micro nutrients and a ratio of N-P-K-Mg of 2:1:3:1.

SOIL

Planting soil for use in preparing the backfill material for planting pits shall be added a rate of fifty percent (50%) planting soil to fifty percent (50%) existing soil. This soil mix shall be used in all plant pits except Sabal Palms which shall be backfilled with clean sand. Planting soil shall be a fertile, friable natural topsoil of loamy character. It shall contain forty (40) to fifty (50) percent decomposed organic matter and be free of heavy clay, stones larger than 1" in diameter, noxious weeds and plants, sod, partially disintegrated debris, insects or any other undesirable material, plants or seeds that would be toxic or harmful to plant growth.

MULCH

All plant beds and tree watering basins shall be top dressed with three inches (3") of pine bark mini-nuggets mulch.

SOD

Refer to Landscape Plan for limits of sod.

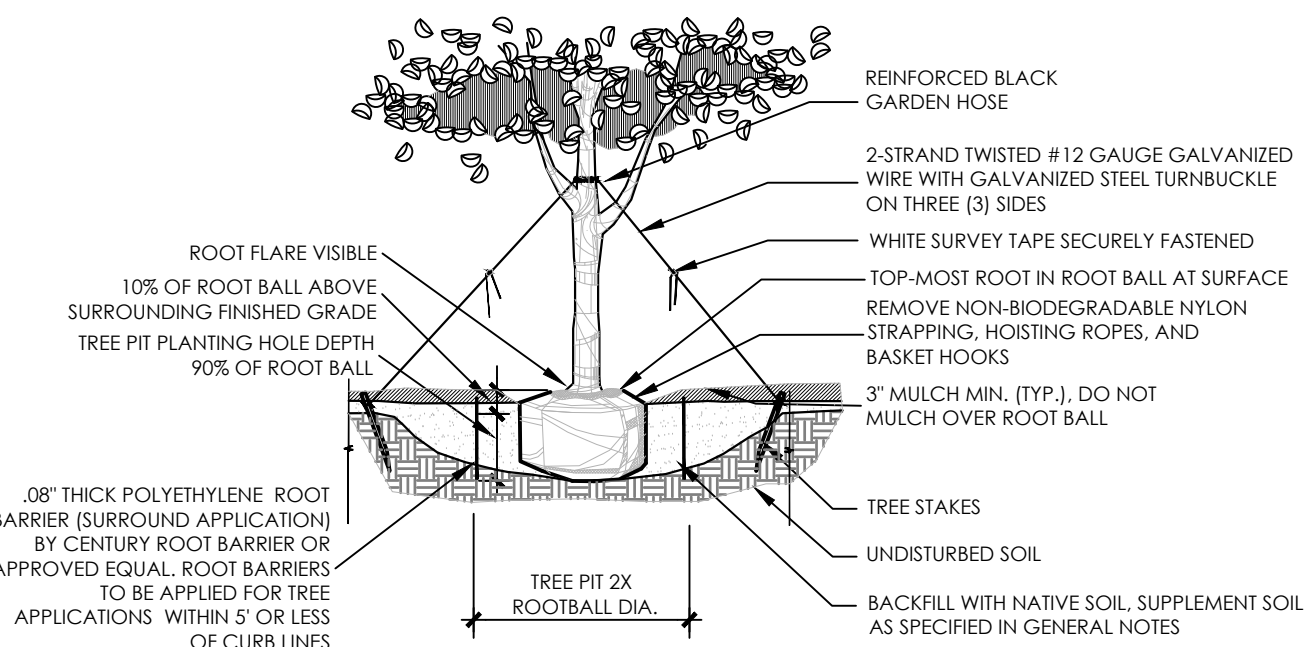
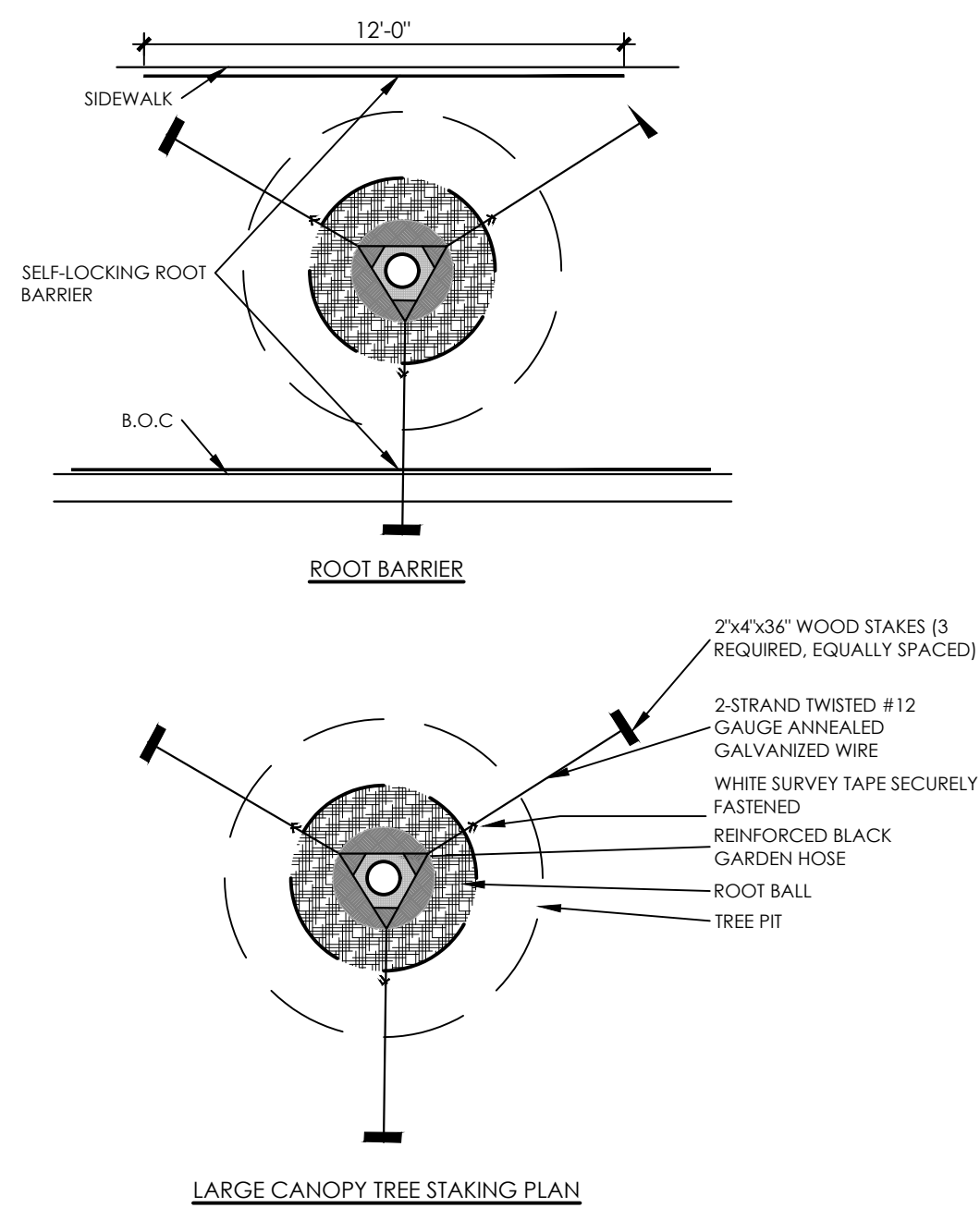
All areas disturbed by construction (including material staging, equipment storage, temporary facilities, site access, construction staff parking, etc.) beyond the minimum limits of sod as shown on the Landscape Plan shall be sodded as needed.

All lawn areas to receive sod shall be disked four (4) to six (6) inches and graded to establish a level finished grade ensuring positive drainage from all structures. All debris shall be removed from the site.

Sod shall be free of weeds and pests. It shall be laid evenly with tight fitting joints and rolled. The sod shall contain moist soil which does not fall apart or tear when lifted.

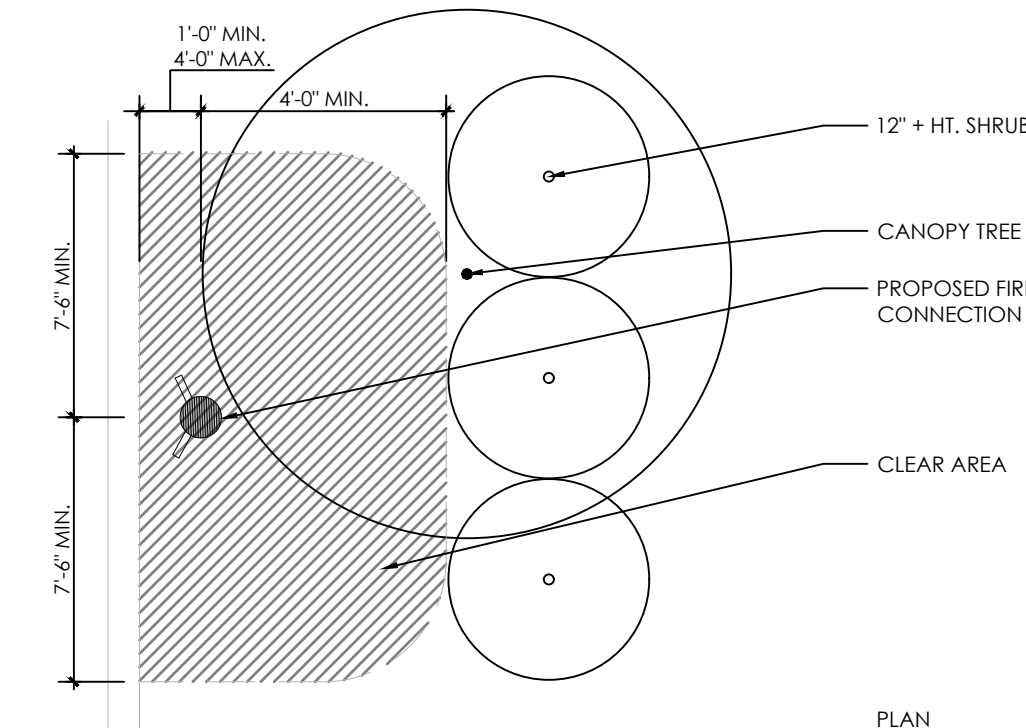
See plant list for specific sod species and locations.

See 'Fertilizer' for requirements of all sodded areas.

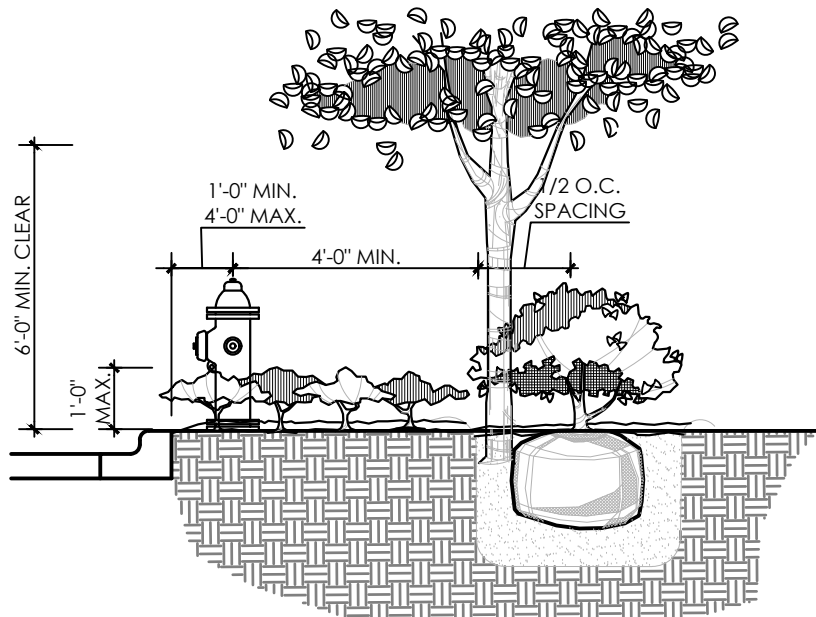


LARGE CANOPY TREE PLANTING DETAIL

N.T.S.



PLAN



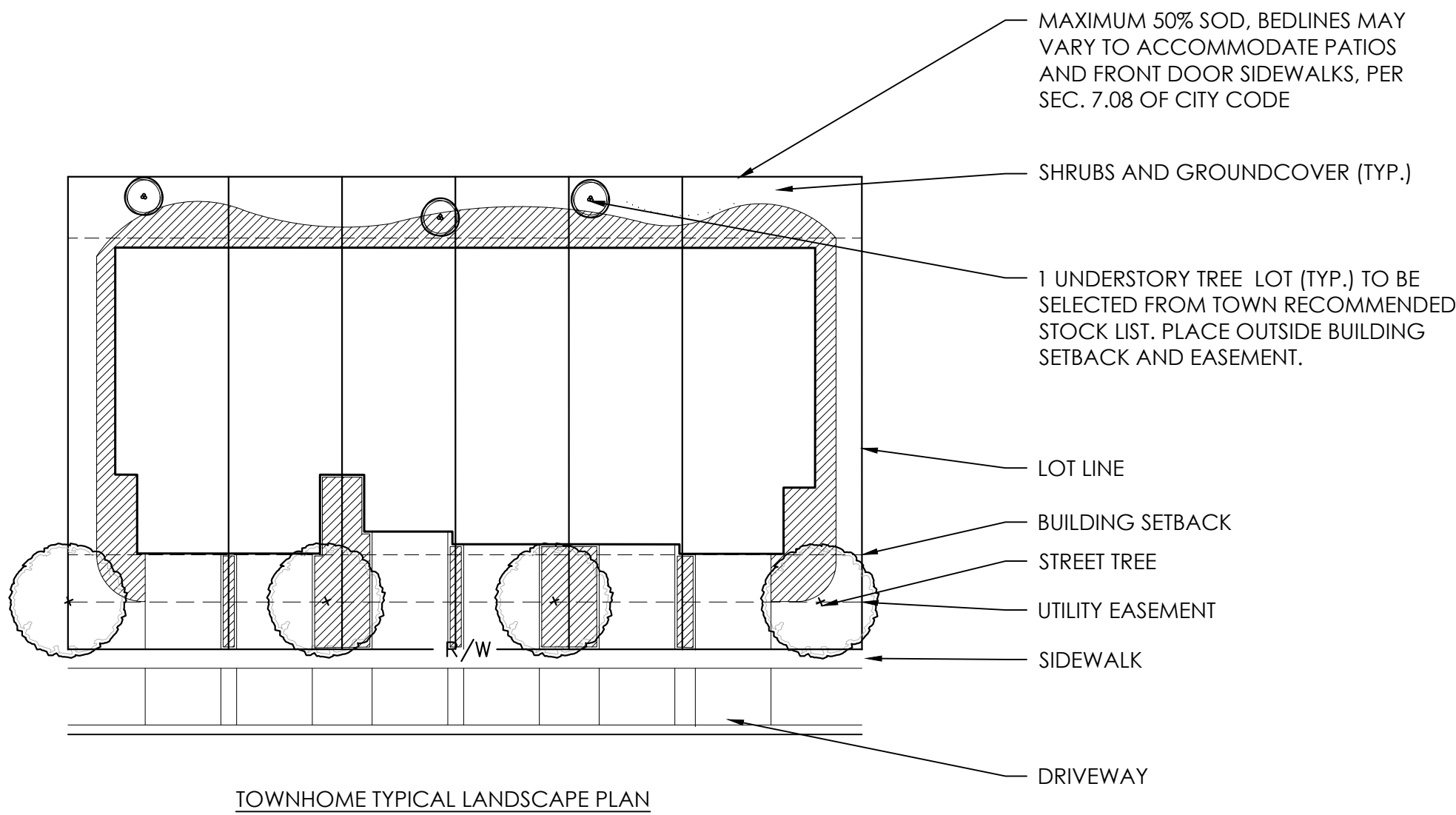
TREES AND SHRUBS TALLER THAN 12" SHALL NOT BE PLANTED ANY CLOSER THAN 4'-0" FROM THE BACK OR 7'-6" FROM EACH SIDE OF A FIRE HYDRANT OR FIRE DEPT. CONNECTION

NO TREES OR SHRUBS SHALL BE PLANTED IN FRONT OF A FIRE HYDRANT OR FIRE DEPT. CONNECTION.

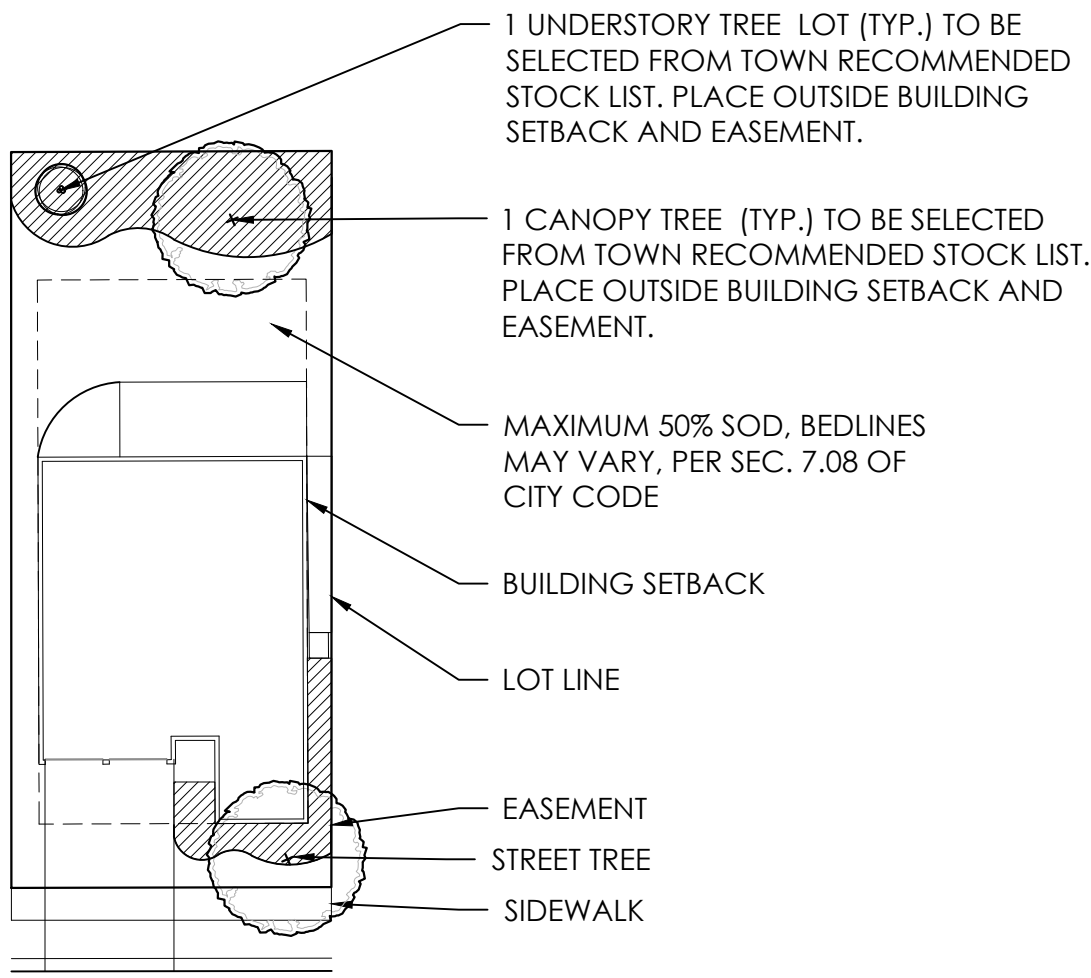
TURF AND GROUND COVER SHORTER THAN 12" IS PERMITTED WITHIN THE CLEARANCE AREA

TYPICAL PLANTING AT FIRE HYDRANT

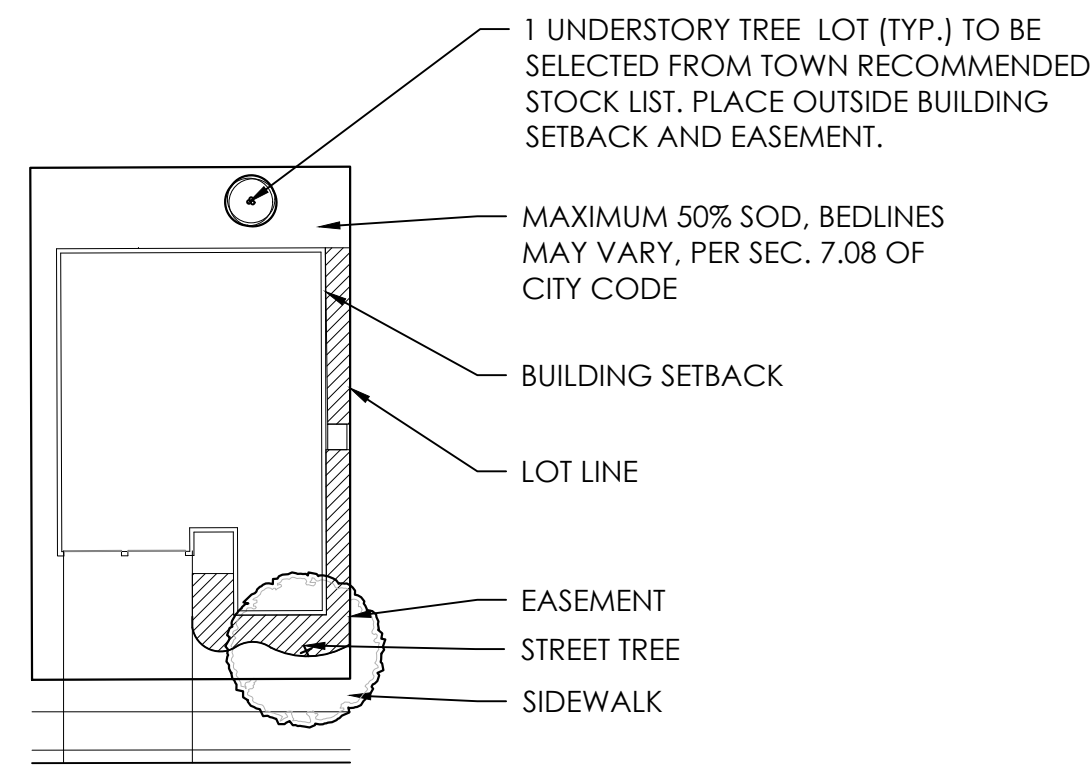
N.T.S.



TOWNHOME TYPICAL LANDSCAPE PLAN



TYPICAL LOT WITH TREES



TYPICAL LOT WITH TREES, 50'X80'

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HOWEY-IN-THE-HILLS, FLORIDA
LANDSCAPE DETAILS & NOTES

PHASE 1

DATE: May 27, 2022

DRAWN BY: RTM

CHECKED BY: TWB

JOB NUMBER: 2021.195

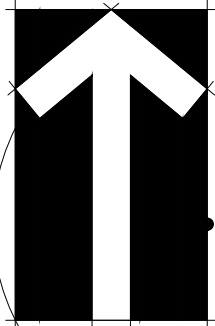
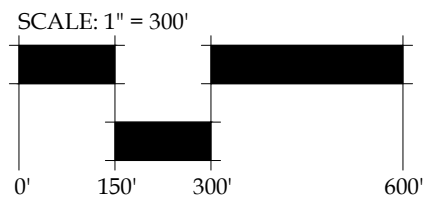
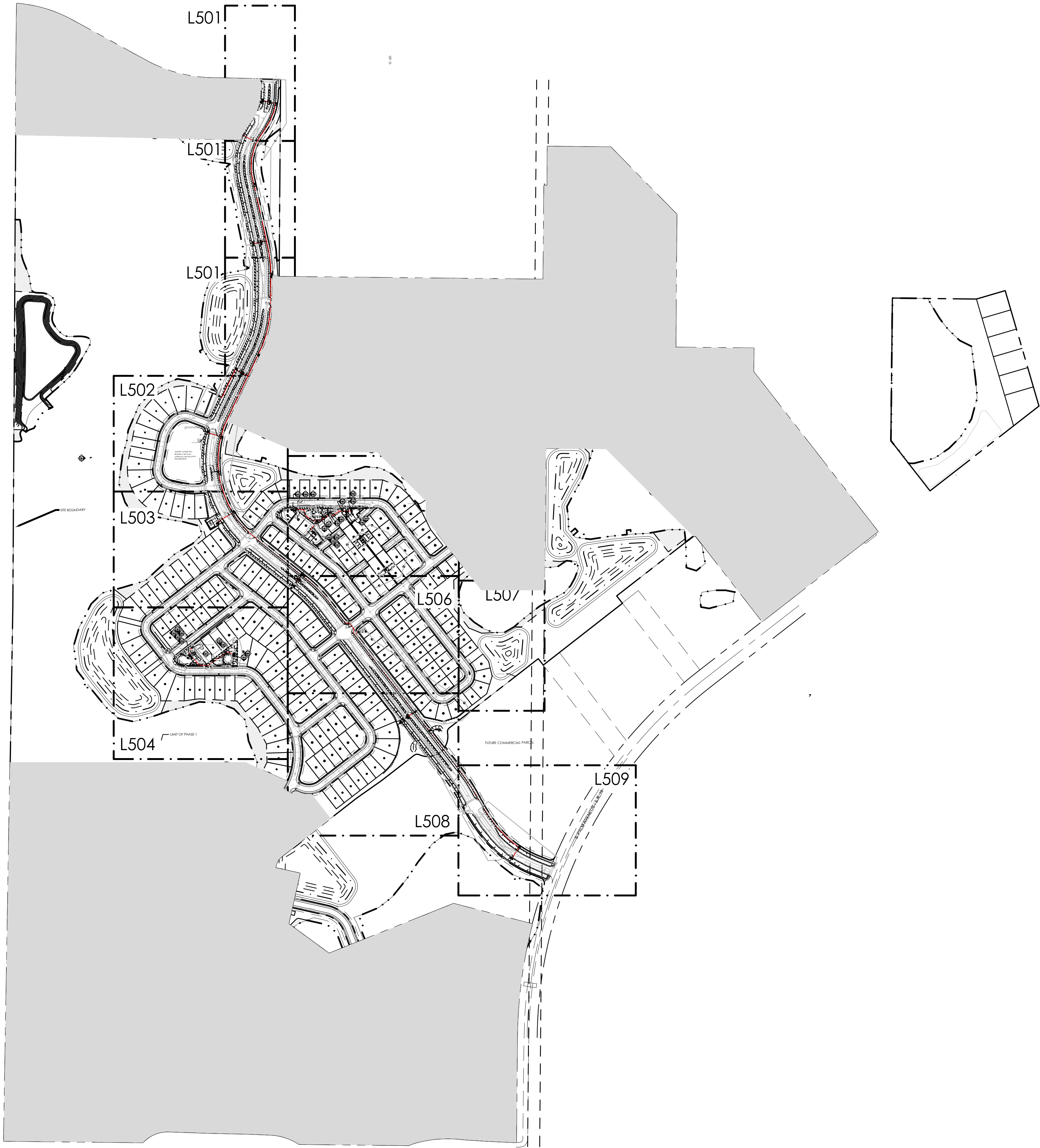
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REVISIONS:
△ City Comments 09-29-2022

Todd W. Bonnett, RLA #14000776

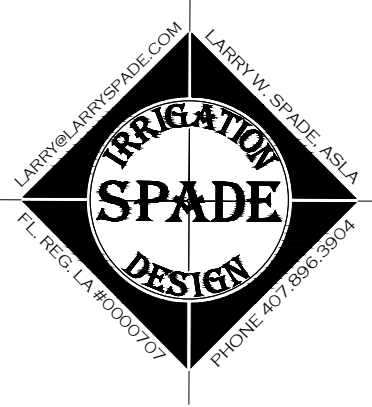
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SITE PLAN UPDATE

NOTE: PER 7.06.03 IRRIGATION DESIGN AND INSTALLATION AFFIDAVITS, THIS IRRIGATION SYSTEM WILL COMPLY WITH THE STANDARDS OF HOWEY-IN-THE-HILLS WATER CONSERVATION PLAN, IRRIGATION STANDARDS.



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Hillside Grove Landscape Architecture Lennar Homes HOWEY-IN-THE-HILLS, FLORIDA OVERALL IRRIGATION PLAN

PHASE 1

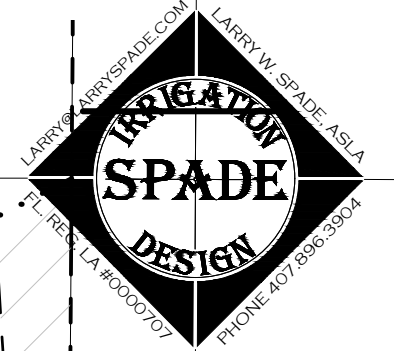
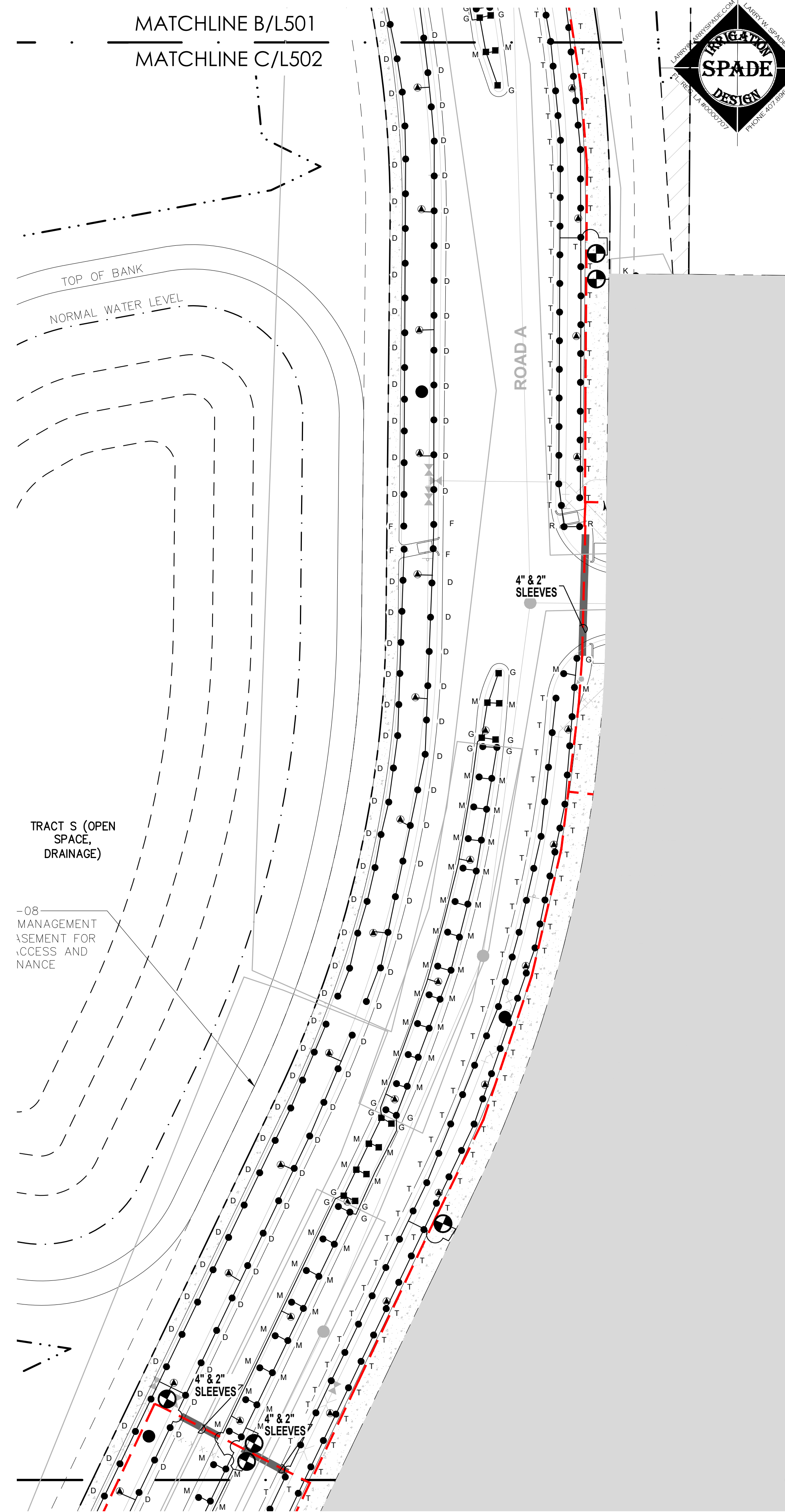
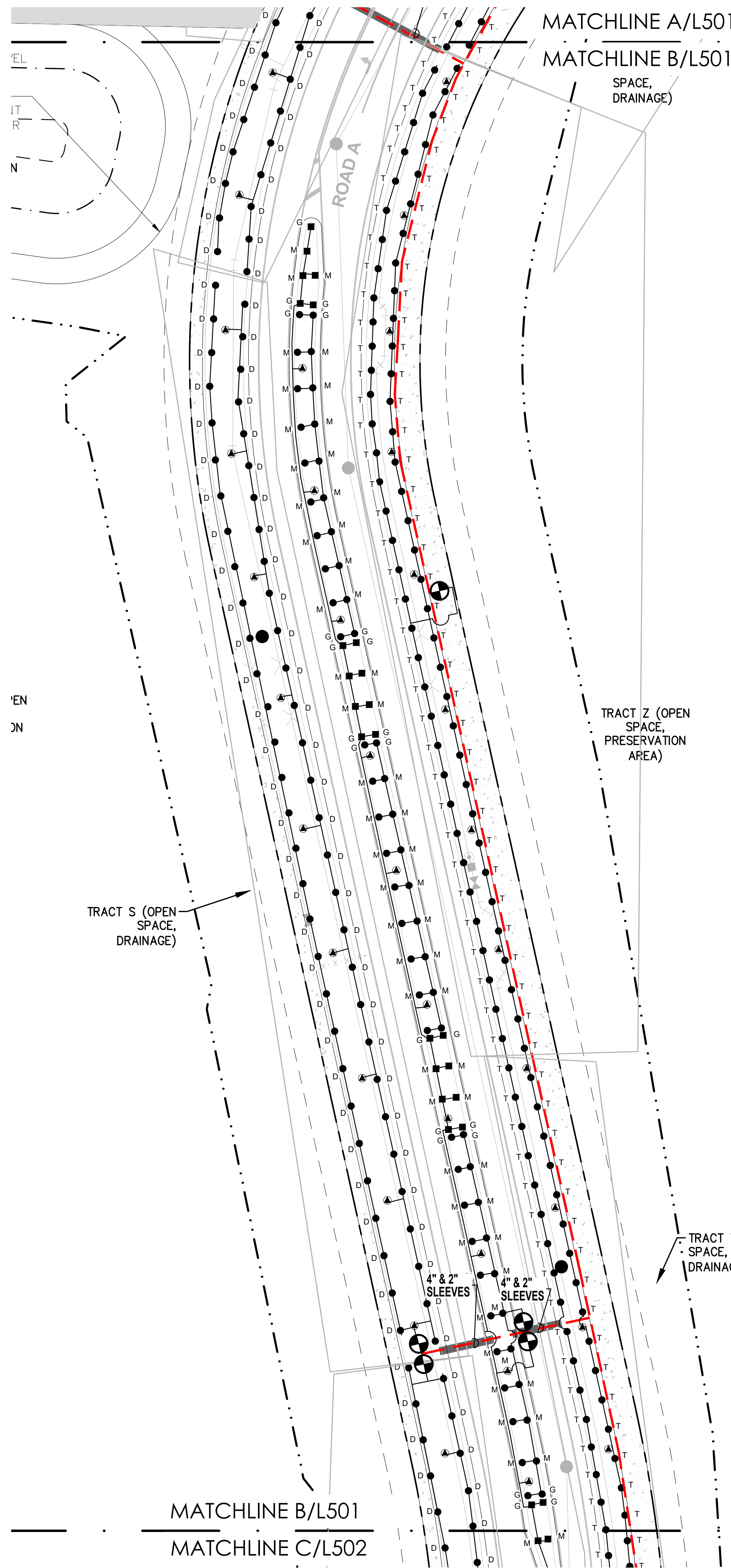
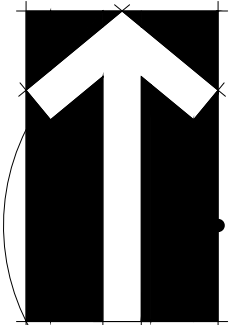
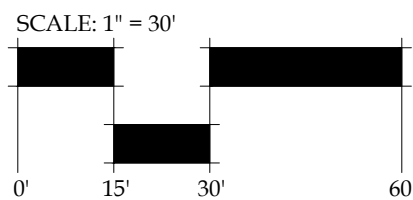
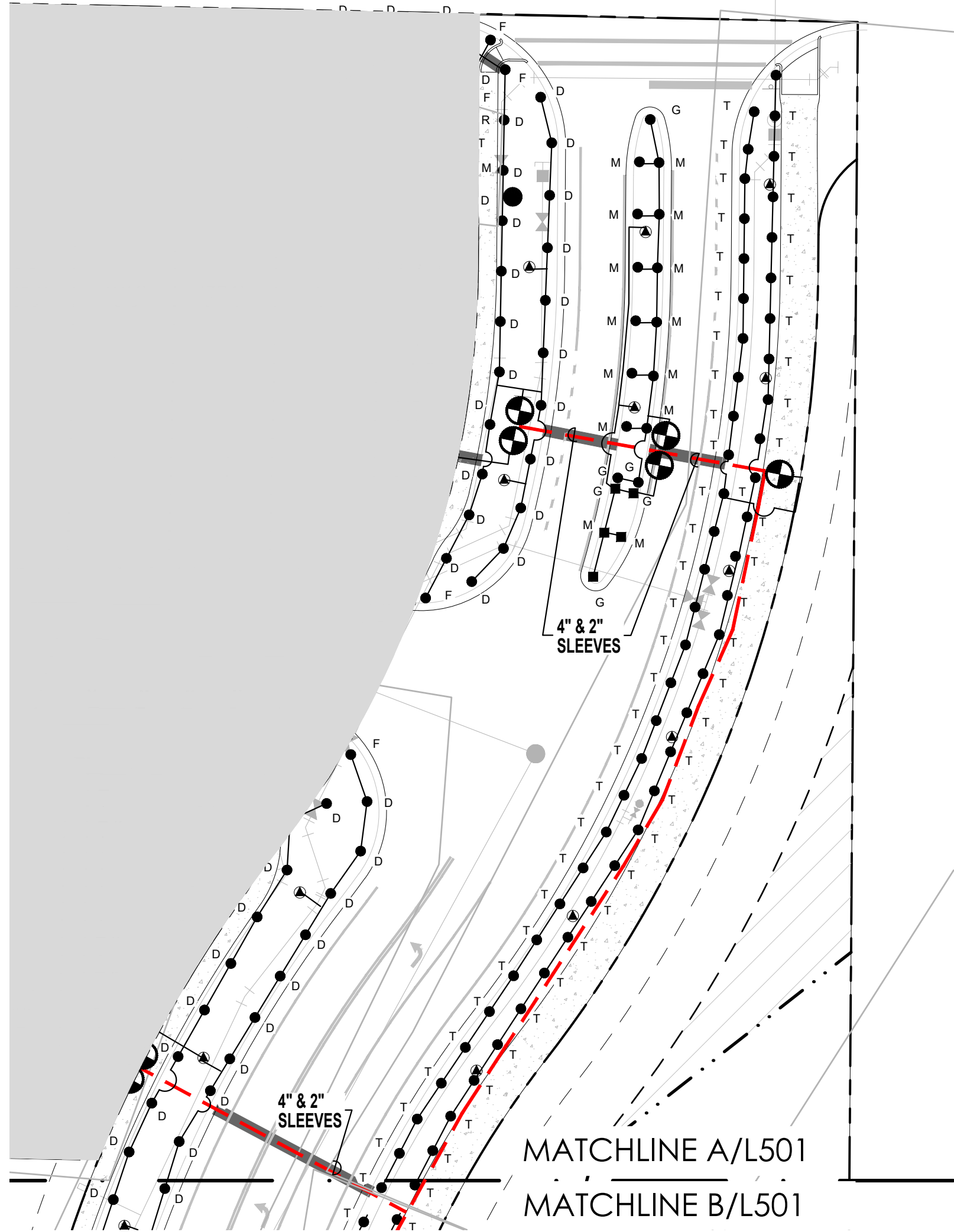
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REVISIONS:
1 City Comments 09-29-2022
2 City Comments 11-17-2022

L500

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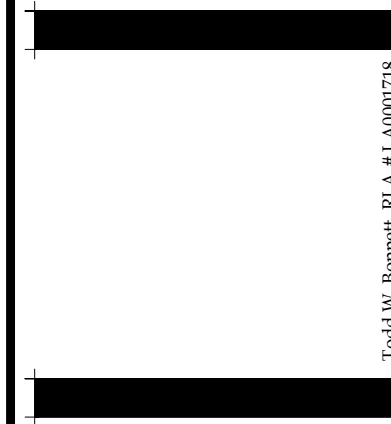
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PHASE 1

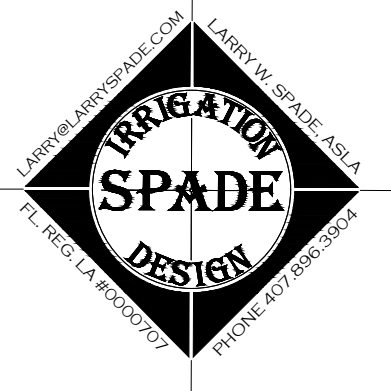
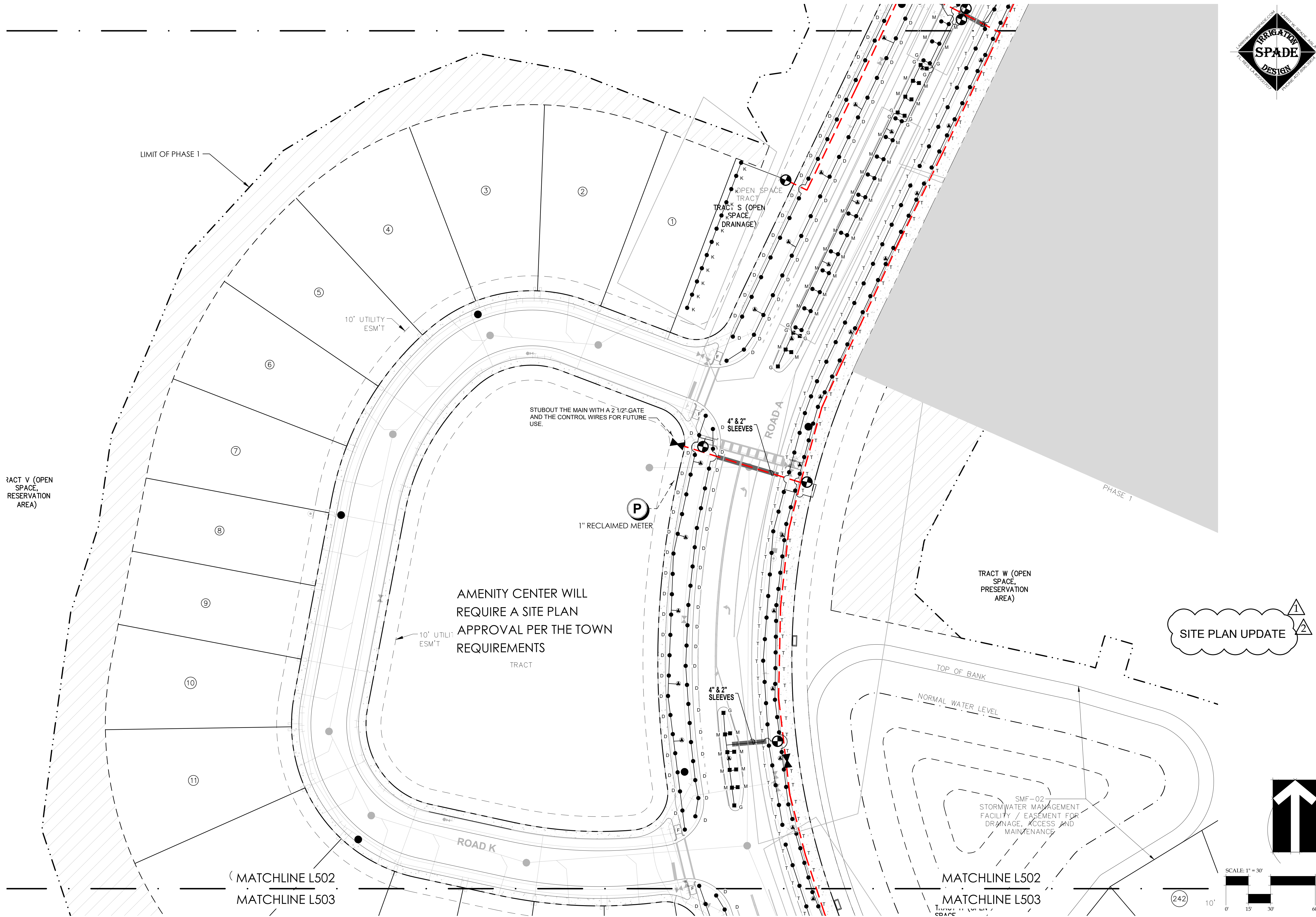
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L501

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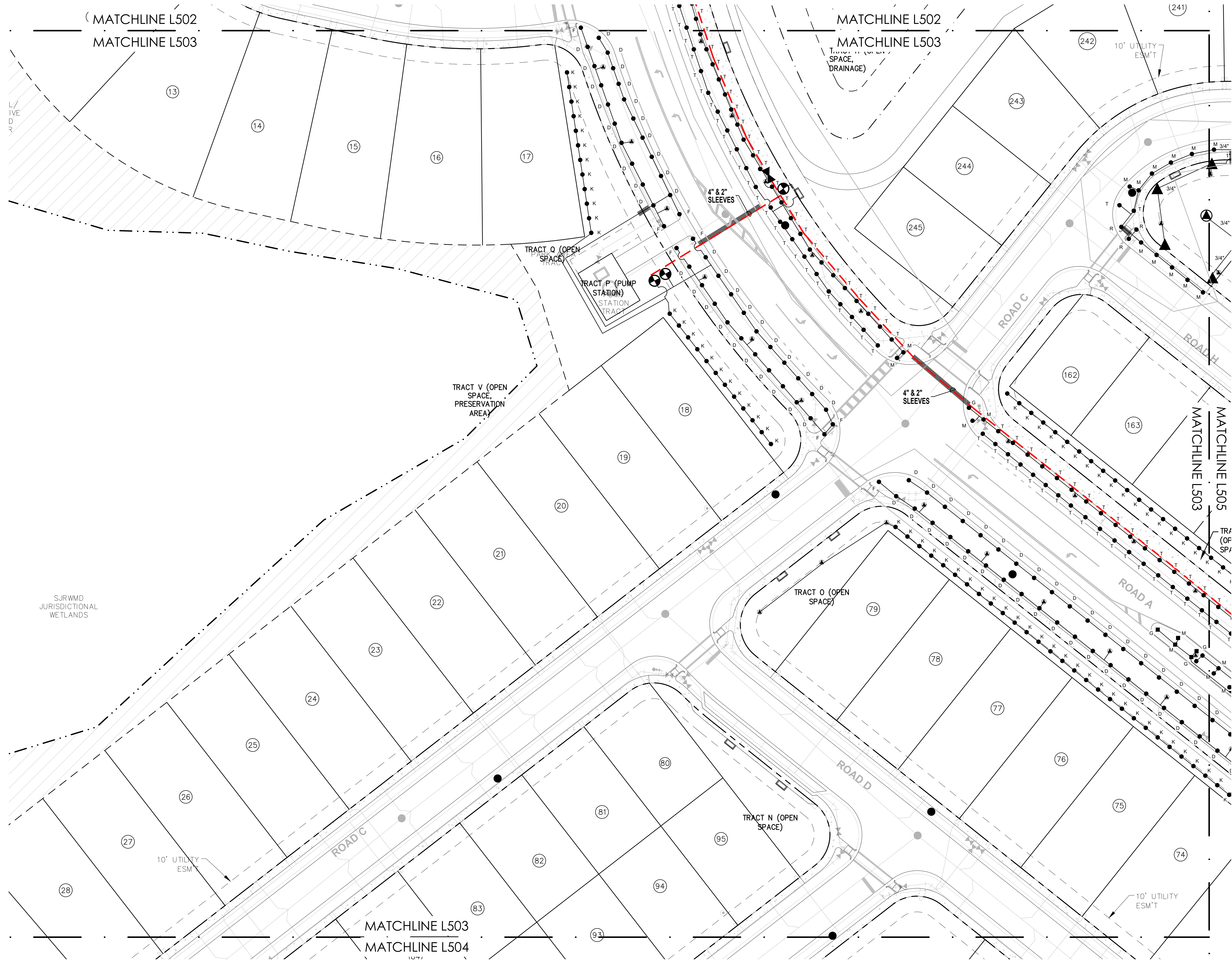
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2 City Comments 11-17-2022

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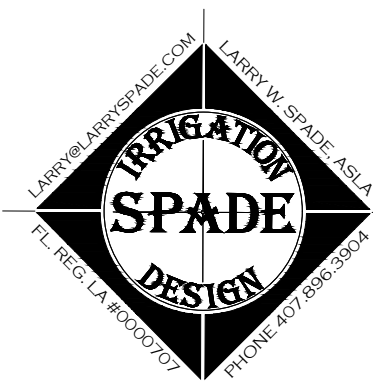


SITE PLAN UPDATE

1
2

SCALE: 1" = 30'

0' 15' 30' 60'



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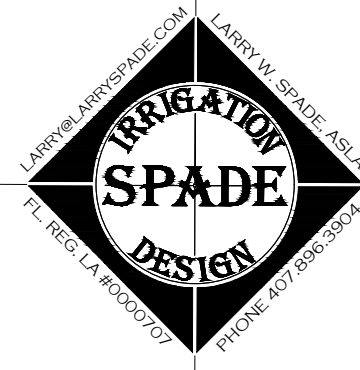


L503

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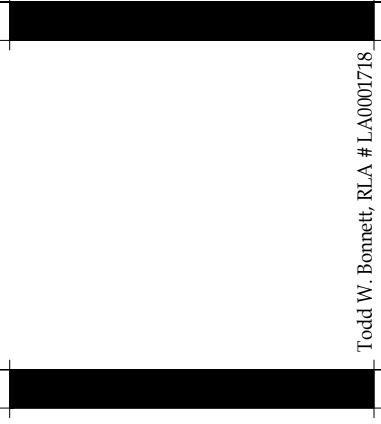
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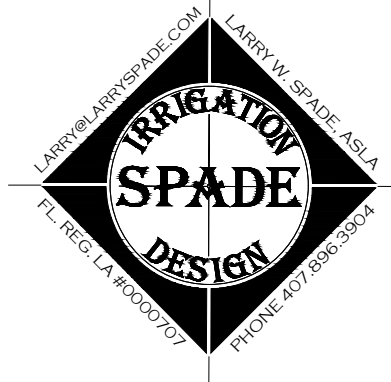
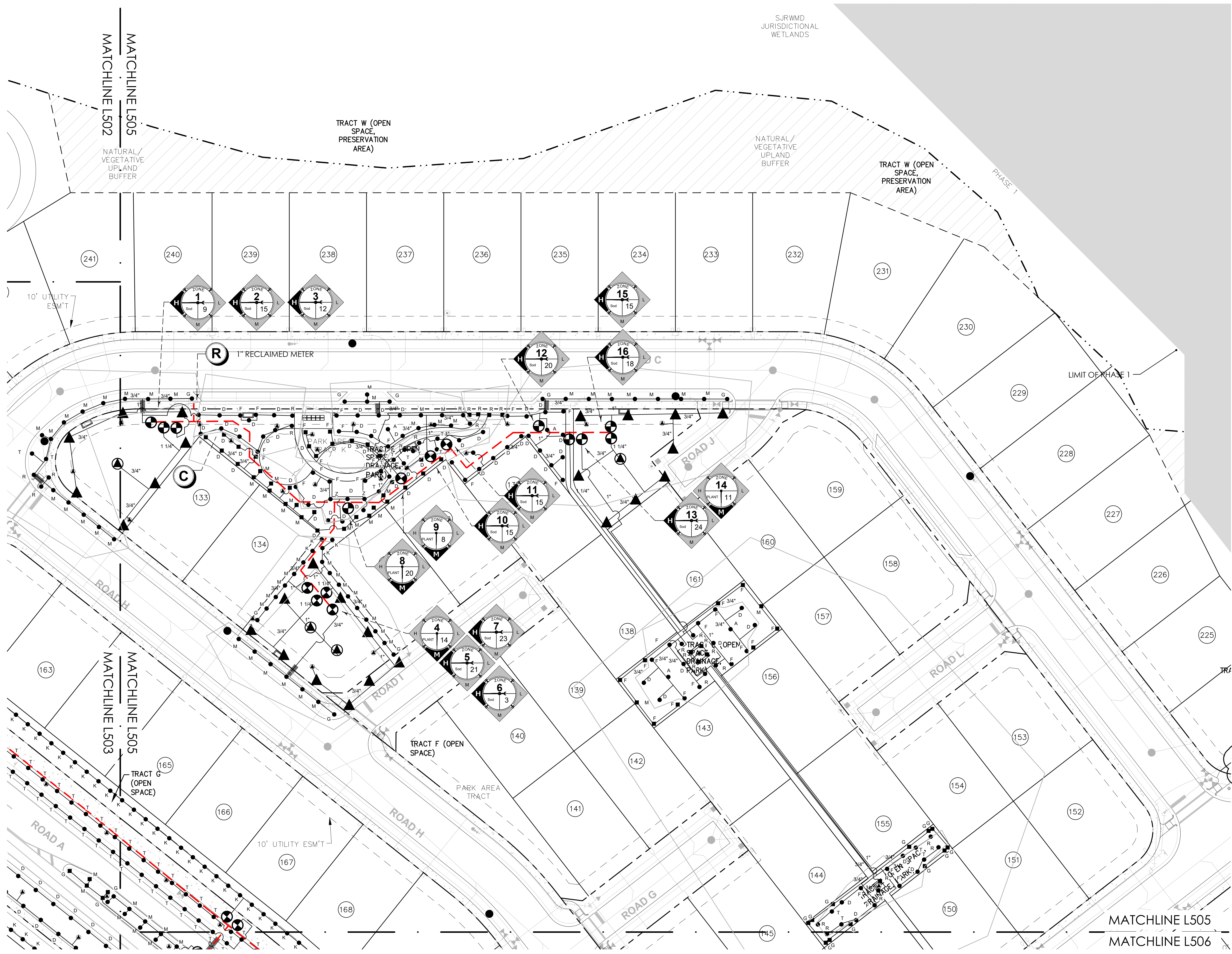


L504

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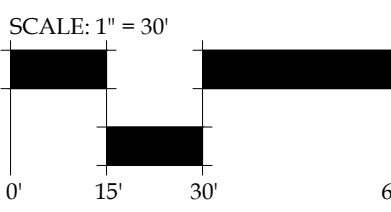
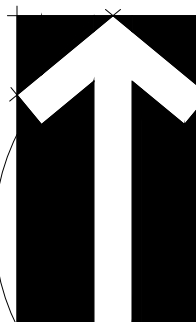
Hillside Grove Landscape Architecture Lennar Homes HOWEY-IN-THE-HILLS, FLORIDA IRRIGATION PLAN

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SITE PLAN UPDATE

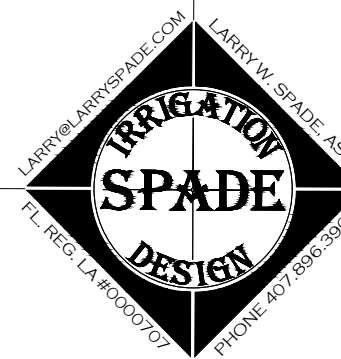
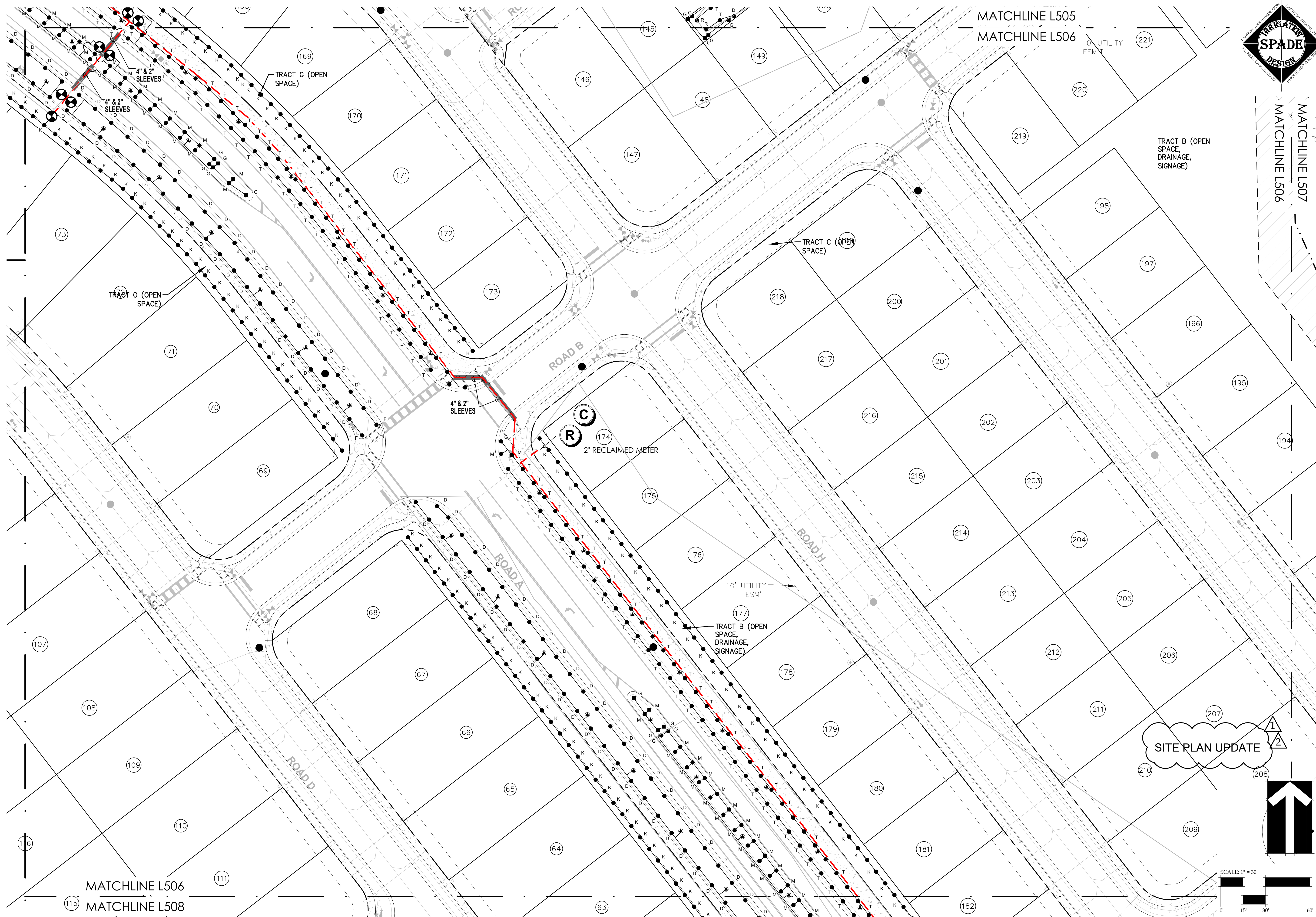


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MATCHLINE L507
MATCHLINE L506

TRACT B (OPEN SPACE, DRAINAGE, SIGNAGE)

TRACT C (OPEN SPACE)

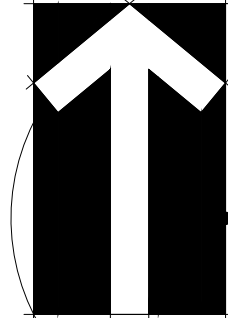
4" & 2" SLEEVES

C
R
2" RECLAIMED METER

10' UTILITY ESM'T

TRACT B (OPEN SPACE, DRAINAGE, SIGNAGE)

SITE PLAN UPDATE



SCALE: 1" = 30'



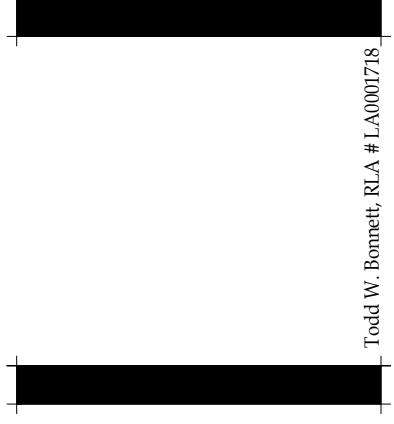
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Hillside Grove Landscape Architecture Lennar Homes HOWEY-IN-THE-HILLS, FLORIDA IRRIGATION PLAN

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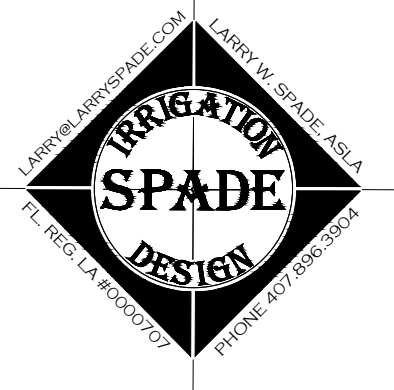
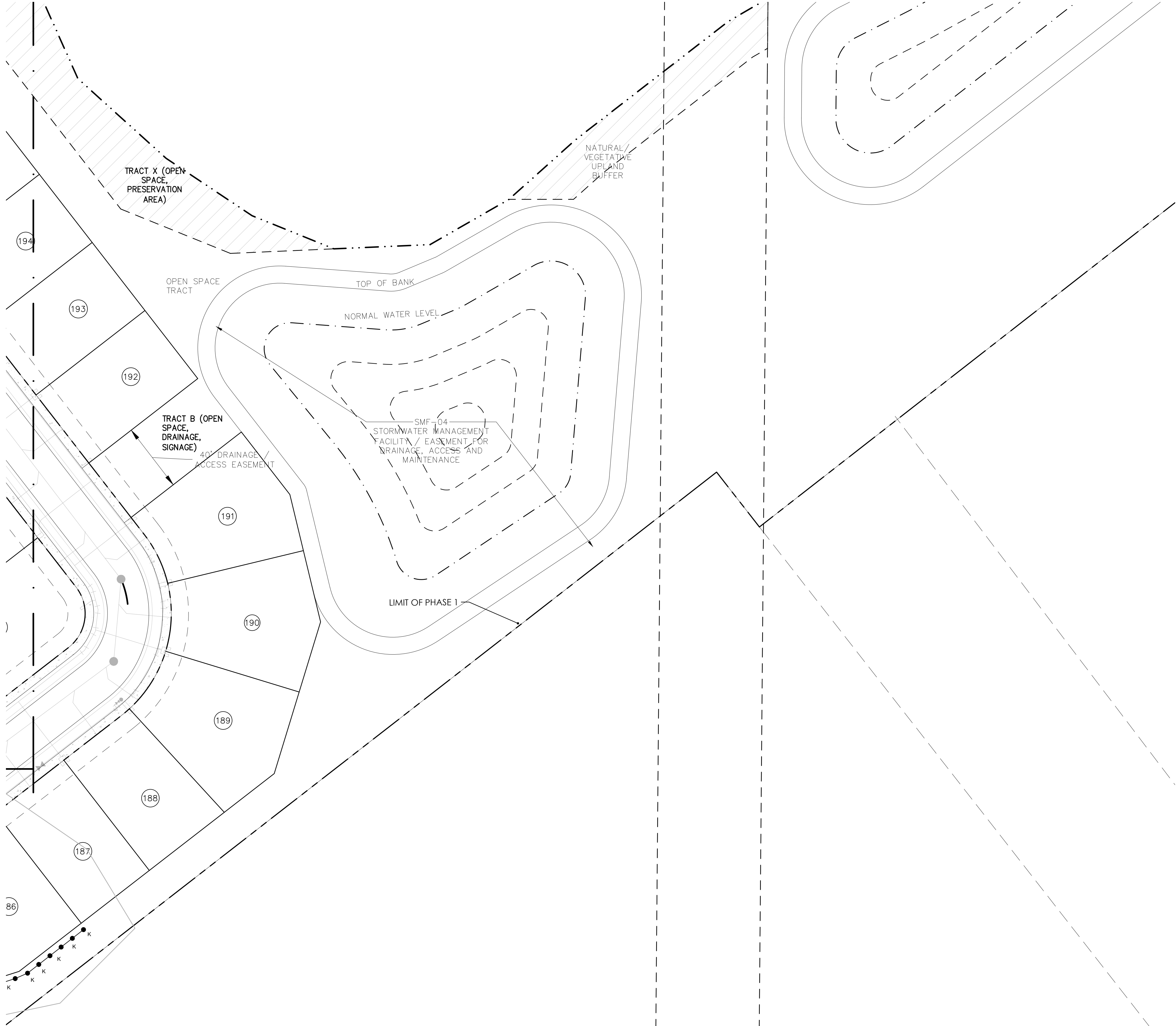


L506

Todd W. Bonnett, RLA, F.L.A. 000776

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Hillside Grove Landscape Architecture Lennar Homes HOWEY-IN-THE-HILLS, FLORIDA IRRIGATION PLAN

PHASE 1

DATE: May 27, 2022

DRAWN BY: LWS

CHECKED BY: TWB

JOB NUMBER: 2021.195

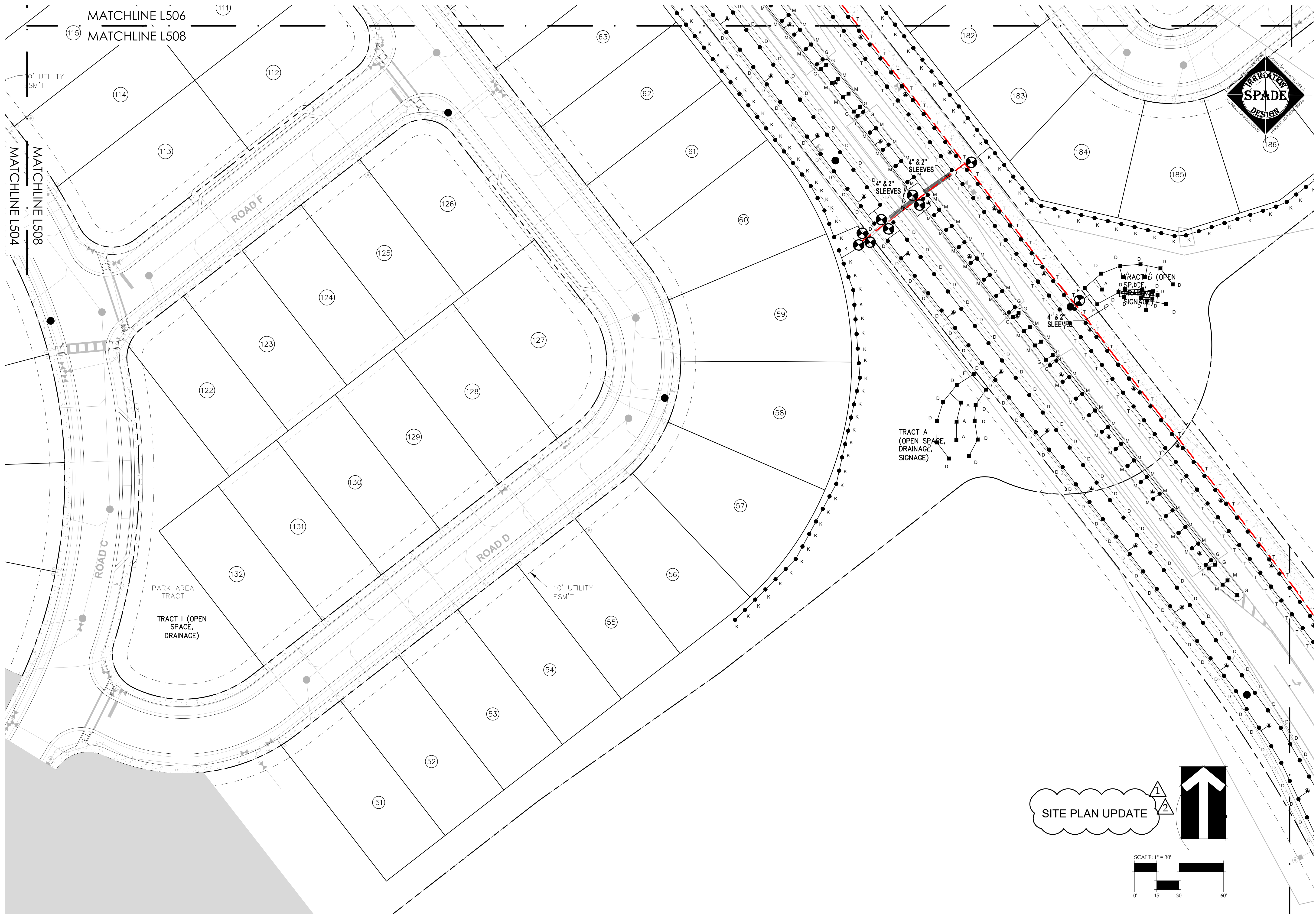
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REVISIONS:
1 City Comments 09-29-2022
2 City Comments 11-17-2022

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L507

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Hillside Grove
Landscape Architecture
Lennar Homes
HOWEY-IN-THE-HILLS, FLORIDA
IRRIGATION PLAN

PHASE 1

DATE: May 27, 2022
DRAWN BY: LWS
CHECKED BY: TWB
JOB NUMBER: 2021.195
FILE NAME: 2021.195_L508 - HILLSIDE GROVE_PHL_IRRASE

REVISIONS:
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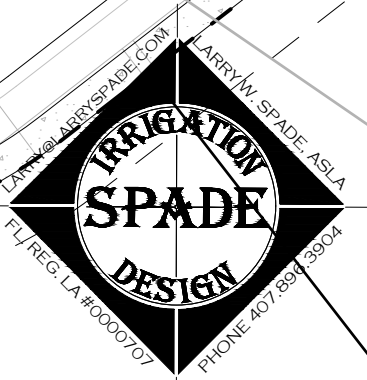
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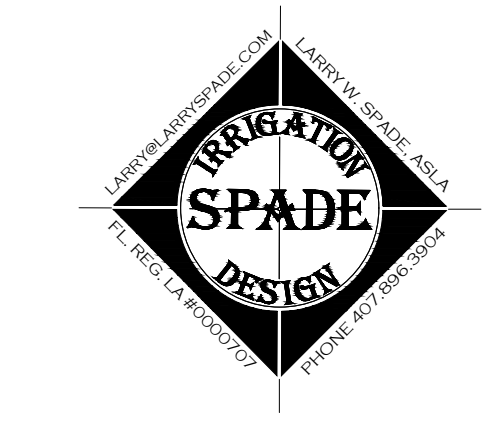


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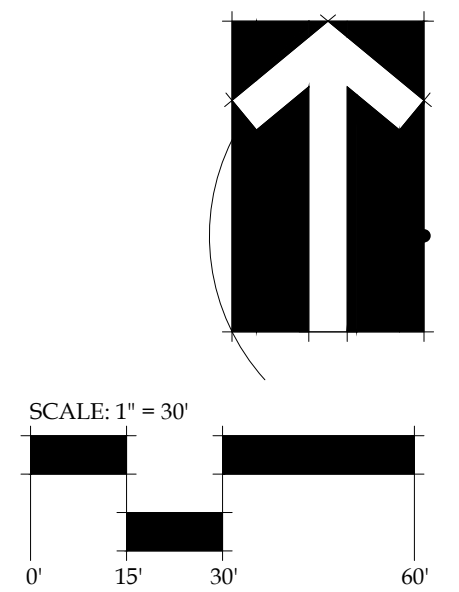
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SITE PLAN UPDATE



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**Hillside Grove
Landscape Architecture
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HOWEY-IN-THE-HILLS, FLORIDA
IRRIGATION PLAN**

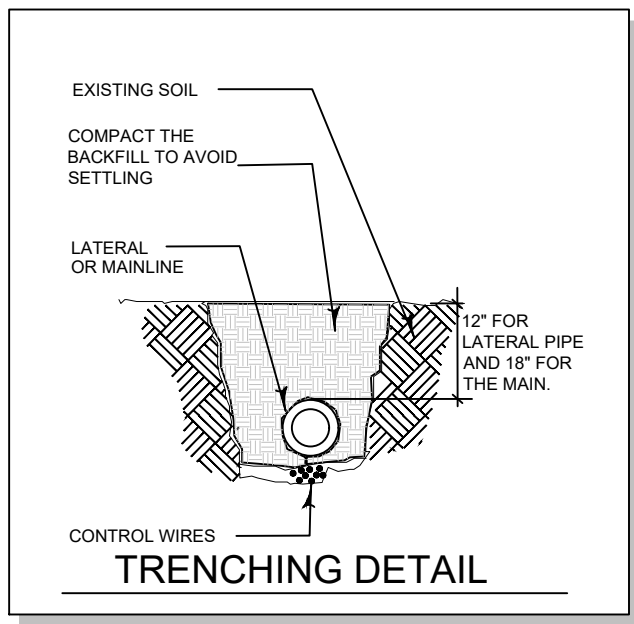
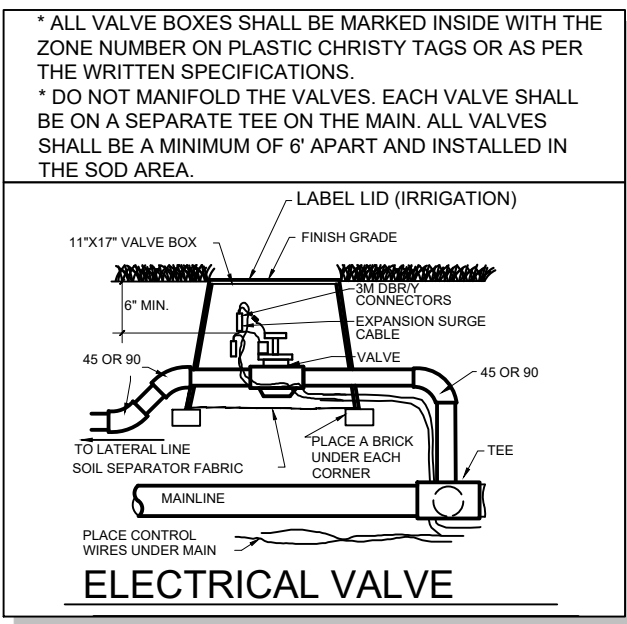
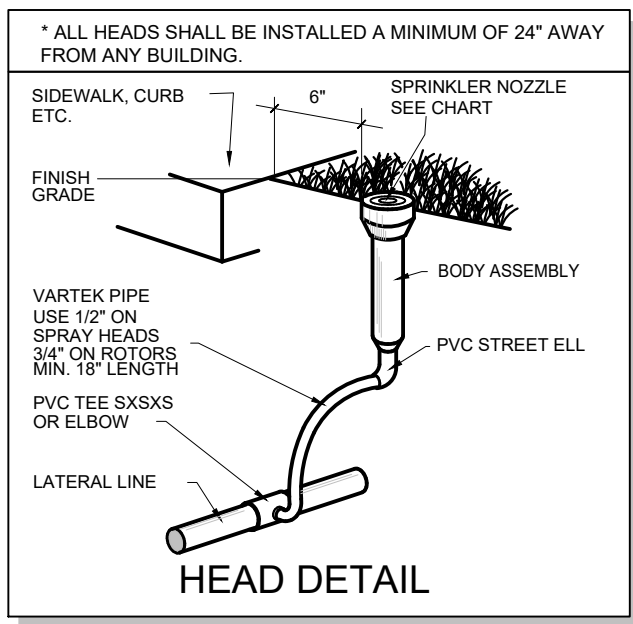
PHASE 1

FILE NAME:
195_LEN - HILLSIDE GROVE_PH1_IRBASE

City Comments 11-17-2022

Todd W. Bennett, RLA # LA0001718

L509



GENERAL NOTES

- 1) REFER TO THE LANDSCAPE PLANS WHEN TRENCHING TO AVOID TREES AND SHRUBS. HAND DIG AROUND ANY EXISTING TREES. DO NOT CUT ANY ROOTS OVER 2" IN DIAMETER.
- 2) ALL MAINLINE PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 18" OF COVER. ALL LATERAL PIPING SHALL BE BURIED TO A MINIMUM DEPTH OF 12" OF COVER.
- 3) ALL POP-UP ROTORS AND SPRAYS SHALL BE INSTALLED USING AN 18" PVC FLEX PIPE CONNECTION. DO NOT USE POLYETHYLENE PIPE. USE WELDON 737 WITH A PURPLE PRIMER OR RED HOT CHRISTY'S BLUE GLUE ON ALL CONNECTIONS.
- 4) ADJUST ALL NOZZLES TO REDUCE WATER WASTE ON HARD SURFACES, WINDOWS AND BLDG. WALLS. THROTTLE ALL VALVES ON SHRUB LINES AS REQUIRED TO PREVENT FOGGING. USE ADJUSTABLE NOZZLES WHERE REQUIRED TO AVOID ANY WATER ON BUILDING WINDOWS.
- 6) ALL CONTROL WIRE CONNECTIONS SHALL BE MADE IN VALVE BOXES USING 3M DBR-Y WIRE CONNECTORS AND SEALANT WITH WIRE NUTS.
- 7) THE CONTRACTOR SHALL PREPARE AN AS-BUILT DRAWING SHOWING ALL IRRIGATION INSTALLATION. THE CONTRACTOR SHALL NEATLY MARK IN RED INK ON A WHITE BOND PAPER COPY OF THE IRRIGATION PLAN ANY INSTALLATION THAT DEVIATES FROM THE PLAN. THE AS-BUILT DRAWING SHALL ALSO LOCATE ALL MAINLINE AND VALVES BY SHOWING EXACT MEASUREMENTS FROM HARD SURFACES. MEASUREMENTS SHALL BE MARKED ON THE PLAN EVEN WHEN THE EQUIPMENT IS INSTALLED IN THE EXACT LOCATION AS THE PLAN. PROVIDE THE OWNER A PDF OF THE AS-BUILT PLAN.
- 8) ALL VALVES, GATE VALVES AND QUICK COUPLERS SHALL BE INSTALLED IN VALVE BOXES. THE VALVE BOXES SHALL BE PURPLE WHEN USING RECLAIMED WATER.
- 9) ANY PIPING SHOWN OUTSIDE THE PROPERTY LINE OR RUNNING OUTSIDE A LANDSCAPE AREA IS SHOWN THERE FOR CLARITY ONLY. ALL LINES SHALL BE INSTALLED ON THE PROPERTY AND INSIDE THE LANDSCAPE AREAS OR INSIDE A SCH. 40 SLEEVE.
- 10) ALL HEADS SHALL BE INSTALLED A MINIMUM OF 24" FROM ANY WALL AND A MINIMUM OF 6" FROM ANY SIDEWALK, PATIO OR ROAD. (MINIMUM OF 2" IF WHERE THERE ARE NO BUMPER STOPS). THE EXACT HEIGHT OF ANY 12" POP-UP THAT IS SHOWN IN A SHRUB BED SHALL BE DETERMINED BY THE OWNER'S REPRESENTATIVE IN THE FIELD. INSTALL THE 12" POP-UP HIGHER WHERE BLOCKED BY TALL SHRUBS.
- 11) THE CONTRACTOR SHALL EXERCISE CARE SO AS NOT TO DAMAGE ANY EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REPAIRS AND COST OF ANY DAMAGE CAUSED BY THEIR WORK.
- 12) ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE AGAINST ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP OR AS OUTLINED IN THE WRITTEN SPECIFICATIONS.
- 13) ELECTRICAL SERVICE TO LOCATION OF THE CONTROLLER, WELL OR PUMP SHALL BE PROVIDED TO A JUNCTION BOX OR DISCONNECT AT THE EQUIPMENT LOCATION BY THE ELECTRICAL CONTRACTOR OR BY OWNER WHEN IT IS NOT PART OF THE BID PACKAGE. CONFIRM THE LOCATION OF THE CONTROLLER WITH THE OWNER OR GENERAL CONTRACTOR BEFORE ANY INSTALLATION.
- 14) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SCALE THE PLAN AND CHECK NOZZLE TYPES TO DETERMINE THE CORRECT SPACING OF THE HEADS. THE CONTRACTOR SHALL NOT SPACE THE HEADS FURTHER APART OR USE LESS HEADS THAN SHOWN ON THE PLAN. ANY CHANGES TO THE HEAD SPACING OR LAYOUT, WITHOUT THE CONSENT OF THE LANDSCAPE ARCHITECT OR OWNER, SHALL HOLD THE IRRIGATION CONTRACTOR RESPONSIBLE FOR WARRANTY OF THE PLANTS AND OR SOD IN THESE AREAS.
- 15) 48 HOURS BEFORE DIGGING, CALL 1-800-432-4770 (SUNSHINE STATE ONE CALL CENTER).
- 16) INSTALL THREE EXTRA CONTROL WIRES TO EACH TERMINATION OF THE MAIN. ALL CONTROL WIRES SHALL BE INSTALLED INSIDE OF SCH. 40 GRAY PVC CONDUIT WHERE THEY CANNOT BE UNDER THE MAIN.



RECLAIMED WATER REQUIREMENTS

- 1) ALL PIPE SHALL BE THE PURPLE RECLAIMED WATER TYPE.
- 2) ALL SPRINKLER HEADS SHALL HAVE PURPLE INDICATORS.
- 3) ALL MANUAL AND ELECTRIC VALVES SHALL HAVE TAGS TO INDICATE RECLAIMED WATER.
- 4) ALL VALVE BOXES SHALL BE PURPLE WITH PURPLE LIDS TO INDICATE THE PRESENCE OF RECLAIMED WATER.
- 5) ALL EQUIPMENT SHALL BE INSTALLED AS PER ALL LOCAL, COUNTY, STATE, AND FEDERAL CODES. PROVIDE AND INSTALL ALL REQUIRED RECLAIMED WATER SIGNS. COORDINATE PLACEMENT AND TYPE WITH THE RECLAIMED WATER PROVIDER.
- 6) ALL CROSSINGS OF IRRIGATION PIPING AND POTABLE WATER LINES SHALL HAVE THE VERTICAL CLEARANCE VISUALLY VERIFIED AND THIS VERIFICATION MUST BE SHOWN ON THE AS-BUILT DRAWINGS BY DOCUMENTING THE VERTICAL MEASUREMENT SEPARATING THE PIPES.
- 7) THE VERTICAL SEPARATION BETWEEN THE POTABLE AND RECLAIMED WATER LINES SHALL BE A MINIMUM OF 18". THIS SEPARATION SHALL BE VERIFIED AND DOCUMENTED IN A SET OF AS-BUILT DRAWINGS AS PER SPECIFICATIONS. THE HORIZONTAL SEPARATION SHALL BE 6" CENTER TO CENTER AND 3" OUTSIDE TO OUTSIDE IF VERTICAL MINIMUM OF 18" IS NOT MET. REFER TO THE SPECIFIC CODE IF THESE SEPARATIONS CAN NOT BE MET.

NOZZLE CHART

LETTER	PRODUCT	G.P.M. @ 40 PSI	RADIUS	RADIUS/ANGLE	ZONE LABELS
A	RAINBIRD R-VAN 18	1.80	13'-18"	FULL	360 °
B	RAINBIRD R-VAN 18	.60	13'-18"	ONE THIRD	120 °
D	RAINBIRD R-VAN 18	.98	13'-18"	HALF	180 °
F	RAINBIRD R-VAN 18	.50	13'-18"	QUARTER	90 °
G	RAINBIRD 1800-15EST	.23	4' X 15'	END STRIP	
H	RAINBIRD XPCN	.23	4.5'	HALF PATTERN	
K	RAINBIRD R-VAN 14	1.22	8'-14"	FULL	360 °
M	RAINBIRD 1800-15SST	.46	4' X 30'	SIDE STRIP	
R	RAINBIRD R-VAN 14	.31	8'-14"	QUARTER	90 °
T	RAINBIRD R-VAN 14	.61	8'-14"	HALF	180 °
V	RAINBIRD R-VAN 24	.77	17'-24"	QUARTER	90 °
W	RAINBIRD R-VAN 24	1.54	17'-24"	HALF	180 °
X	RAINBIRD R-VAN 24	2.31	17'-24"	THREE QUAR.	270 °
Y	RAINBIRD R-VAN 24	3.13	17'-24"	FULL	360 °
Z	RAINBIRD R-VAN 18	1.42	13'-18"	THREE QTR.	270 °

THE NOZZLES LISTED SHOW THE TYPE OF RAINBIRD ROTORY NOZZLE THAT SHOULD BE USED. THE CONTRACTOR SHOULD INSTALL THE NOZZLES IN EACH HEAD AS SHOWN BY THE LETTER BESIDE THE HEAD ON THE PLAN. THE GPM, DISTANCE AND ANGLE ON THE NOZZLE CHART ARE APPROXIMATE. THE CONTRACTOR SHALL ADJUST ALL NOZZLES TO PROVIDE THE 100% COVERAGE, BUT LIMIT OVERTHROW ON TO BUILDINGS, WALLS, PAVEMENT, ETC. THE HEADS SHALL BE SPACED AS PER THE PLAN. SCALE THE PLAN FOR DISTANCE. DO NOT ASSUME THAT ALL HEADS ARE SPACED AS PER CONVENTIONAL SPRAY HEADS. THE PRECIPITATION RATE FOR THESE NOZZLES IS LESS THAN A CONVENTIONAL SPRAY NOZZLE. FOLLOW THE ZONE CHART FOR AN APPROXIMATE RUN TIME FOR EACH ZONE, BUT SET THE RUN TIME ON THE CONTROLLER BASED ON THE SPECIFIC SITE CONDITIONS.

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LEGEND

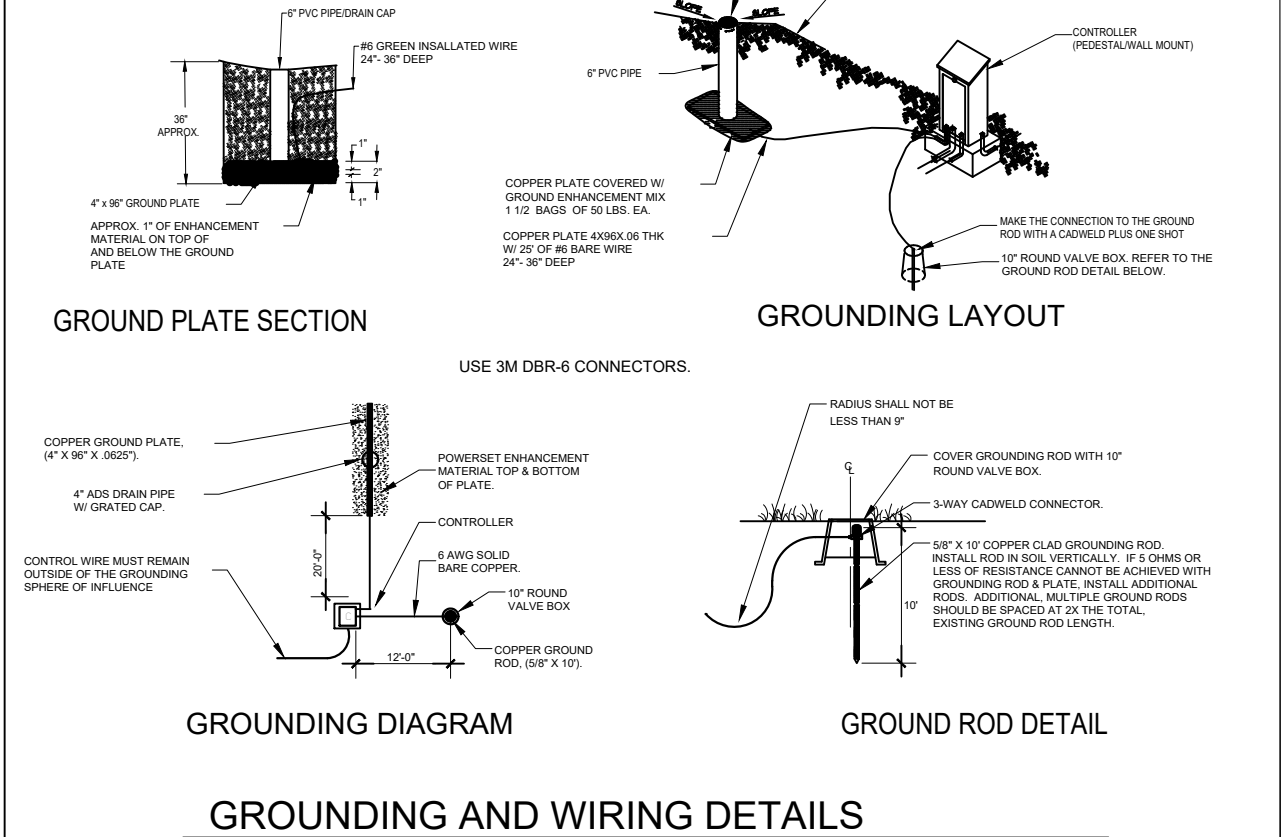
SYMBOL	QUANTITY	SPECIFICATION	REFER TO THE RECLAIMED WATER NOTES USE RAINBIRD ROTORY NOZZLES
●	2255	RAINBIRD 1800-PRS-P45 SPRAY SERIES 6" POP-UP	
■	280	RAINBIRD 1800 PRS-P45 SPRAY SERIES 12" POP-UP	
▲	267	RAINBIRD .5 GPM FLOOD BUBBLER	
⬆	52	RAINBIRD 5000 SERIES ROTOR HEAD - FULL CIRCLE 6 GPM	
▲		RAINBIRD 5000 SERIES ROTOR HEAD - PART CIRCLE 3 GPM	
---	2 1/2"	CLASS 200 PURPLE PVC MAINLINE-2 1/2"	
---	6016'		
---	1 1/2"	CLASS 200 PURPLE PVC MAINLINE-1 1/2"	
---	REFER TO PLAN	CLASS 200 PVC PURPLE LATERAL LINE- SIZE AS SHOWN UNTIL A SMALLER SIZE IS SHOWN. MINIMUM SIZE OF 3/4" (EXCEPT RISERS AND FLEX PIPE)	
---	REFER TO PLAN	SCH. 40 SLEEVE (MINIMUM OF 24" DEPTH AND 2 SIZES LARGER THAN THE PIPE SIZE OR AS LABELED ON THE PLAN)	
⊕	71	RAINBIRD PESBR-PRS-D2 ELECTRIC VALVE. INSTALL THE VALVE IN A PURPLE ARMOR 11" X 17" VALVE BOX AND COVER.	
⊙	4	CONTROLLER-RAINBIRD ESP-LXD-PED PEDESTAL MOUNT.WHERE SHOWN ON THE PLAN. INSTALL WITH A RAINBIRD RAIN SENSOR. GROUND AS PER ASIC SPECIFICATIONS AND DETAILS. SLEEVE TO AS REQUIRED.	
⊙	4	POINT OF CONNECTION TO A RECLIMED WATER METER. REFER TO THE UTILITY PLAN FOR THE EXACT LOCATION AND DETAILS.	
⊙	1	POINT OF CONNECTION TO A 2" METER. REFER TO THE UTILITY PLAN FOR THE EXACT LOCATION AND DETAILS.	

PLANT SHRUB HEAD NOTE

SPRAY HEADS WERE USED IN THE PLANT BEDS INSTEAD OF MICRO-IRRIGATION. THESE ZONES SHALL BE TURNED OFF AFTER THE PLANTS ARE ESTABLISHED.

NOTES

- 1) ALL GROUNDING SHALL FOLLOW ASIC SPECIFICATIONS.



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Lennar Homes
HOWEY-IN-THE-HILLS, FLORIDA
IRRIGATION DETAILS & NOTES

PHASE 1

DATE: May 27, 2022

DRAWN BY: LWS

CHECKED BY: TWB

JOB NUMBER: 2021.195

FILE NAME: 2021.195_L510 - HILLSIDE GROVE_PHL_IRRBASE

REVISIONS:

City Comments 09-29-2022

City Comments 11-17-2022

Todd W. Bonnett, RLA # L4000776

L510