

CYRILS DRIVE / NARCOOSSEE ROAD TO ABSHER ROAD - ROAD WIDENING

OSCEOLA COUNTY, FLORIDA

LANDSCAPE ARCHITECTURAL DRAWINGS 100% CONSTRUCTION DOCUMENT SET

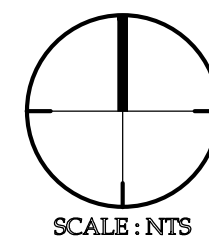
ISSUED FOR CONSTRUCTION

December 9, 2022

VICINITY MAP



PROJECT LOCATION



INDEX OF DRAWINGS

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NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED
DUE TO REPRODUCTION. ORIGINAL SHEET SIZE 22' X 34'

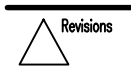




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Set



03/13/2023 95% CD

Project

CYRILS DRIVE /
NARCOOSSEE ROAD
TO ABSHER ROAD -
ROAD WIDENING
OSCEOLA COUNTY, FL

KEY
PLAN

Date:

04/18/2022

Scale:

1" = 400'-0"

Drawn:

JM MA

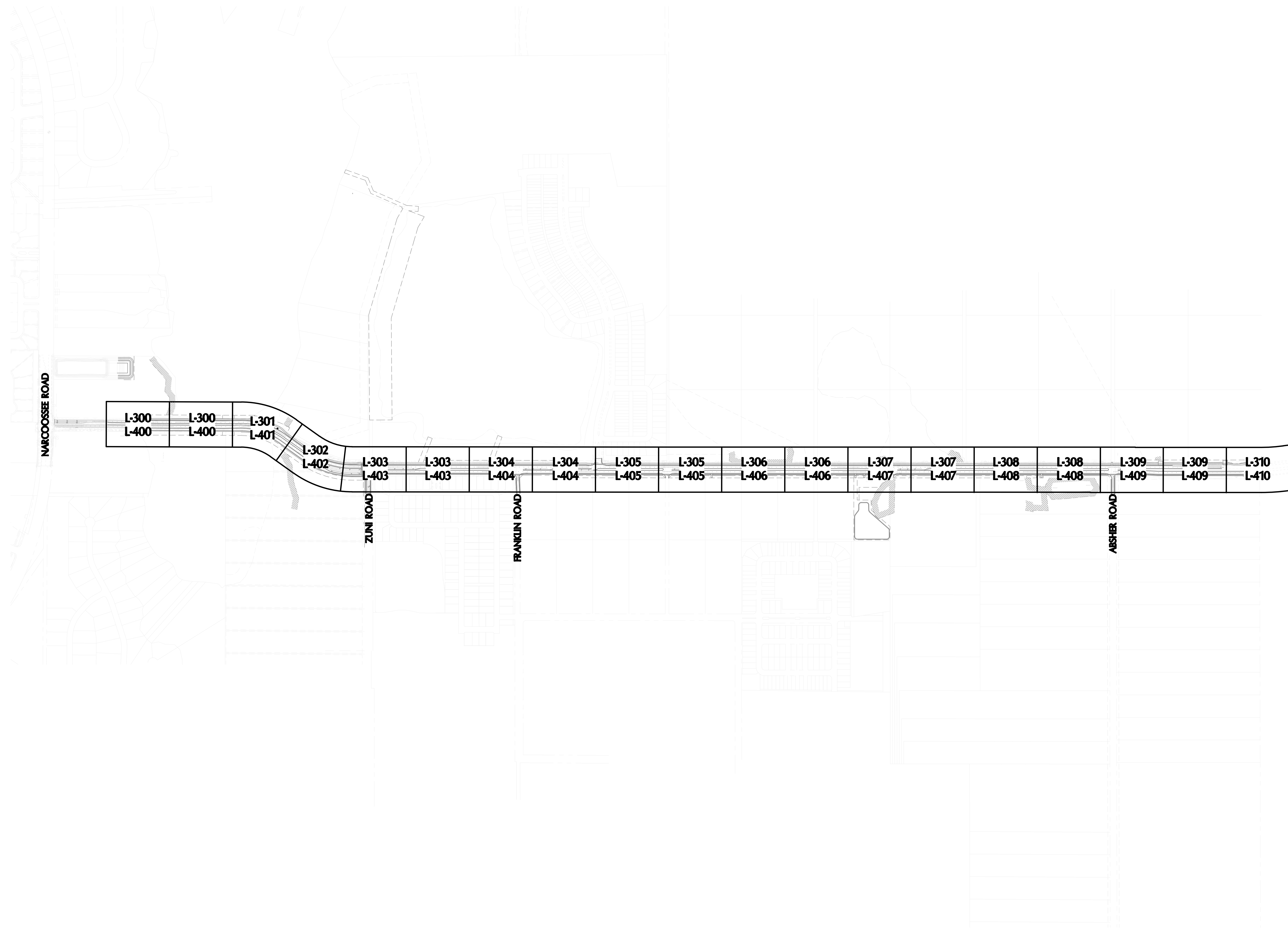
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SBCYL-001.DWG

North

Sheet

L-001



NARCOOSSEE ROAD

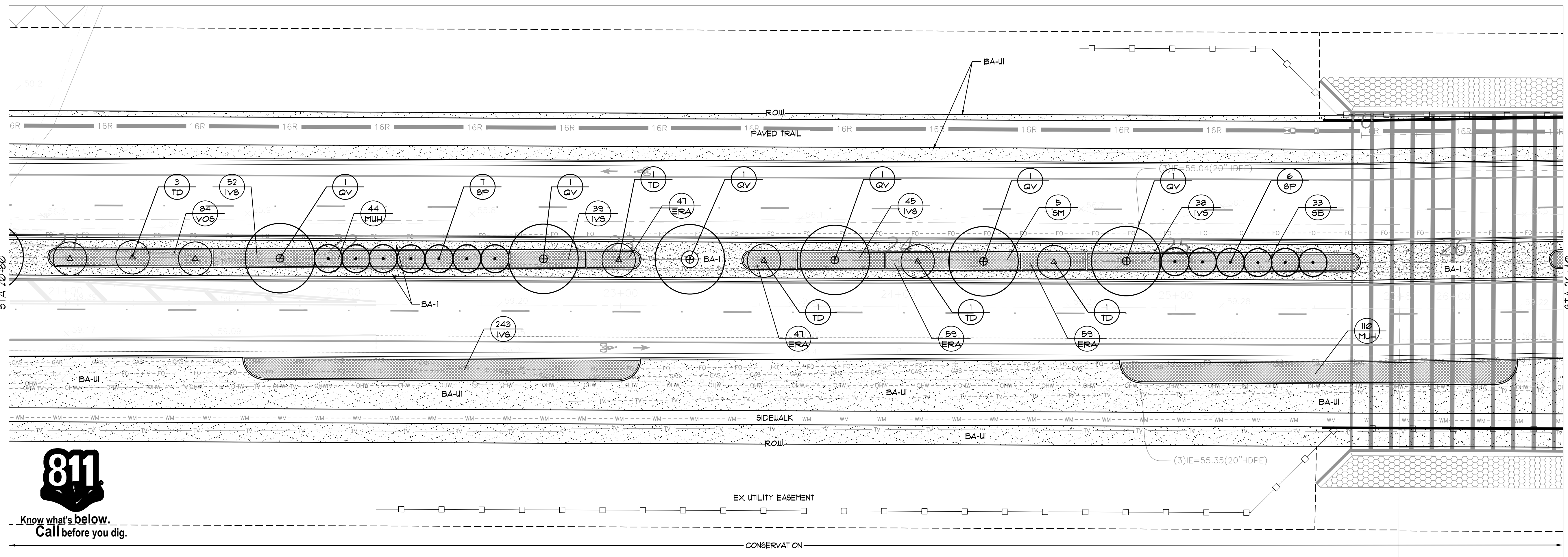
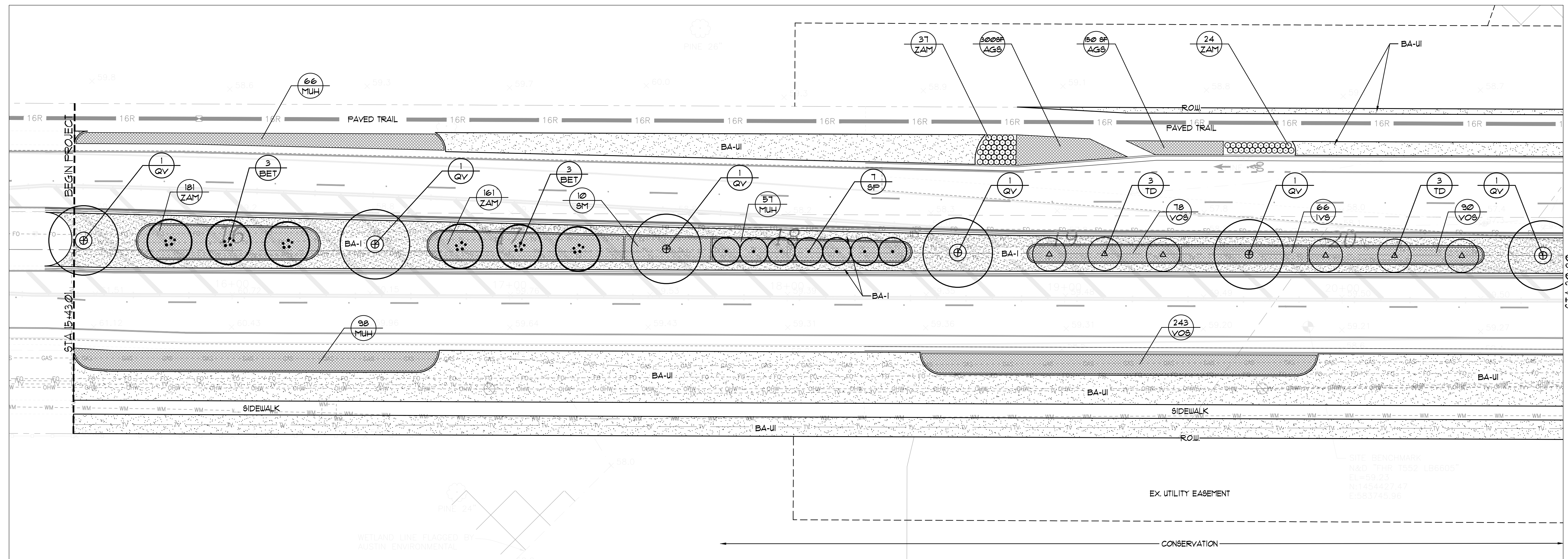
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L-400	L-400	L-401		L-403	L-403	L-404	L-404	L-405	L-405	L-406	L-406	L-407	L-407	L-408	L-408	L-409	L-409	L-410

ZUNI ROAD

FRANKLIN ROAD

ABSHER ROAD

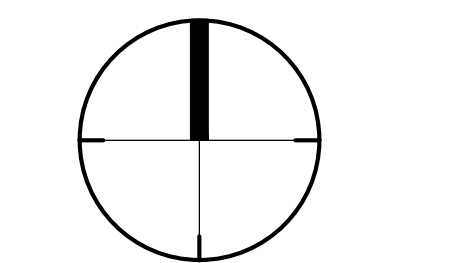
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**CYRILS DRIVE /
NARCOOSSEE ROAD
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ROAD WIDENING**
OSCEOLA COUNTY, FL

LANDSCAPE PLAN

Date: 04/18/2022
Scale: 1" = 20'-0"
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File Name: SECYL-300 DWG



Sheet
L-300



Know what's below.
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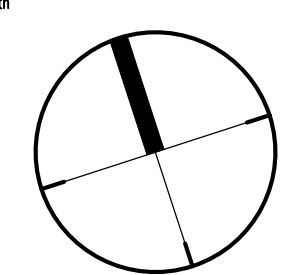
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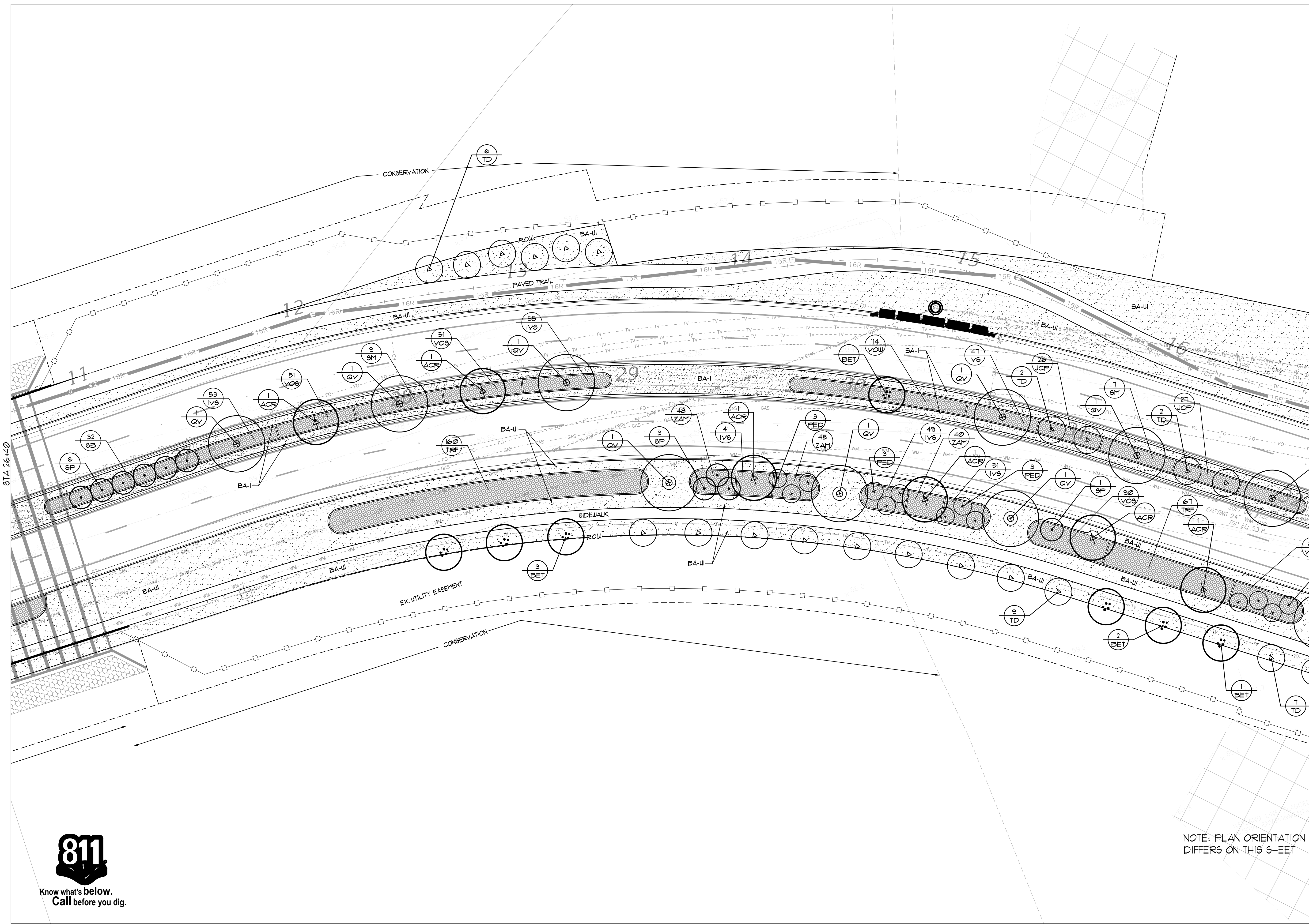
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LANDSCAPE
PLAN

Date: 04/18/2022
Scale: 1" = 20'-0"
Drawn: JM Checked: MA
File Name: 6BCYL-300DUG



Sheet
L-301

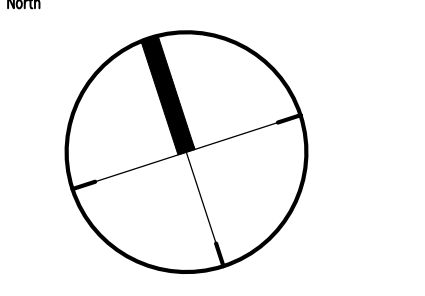


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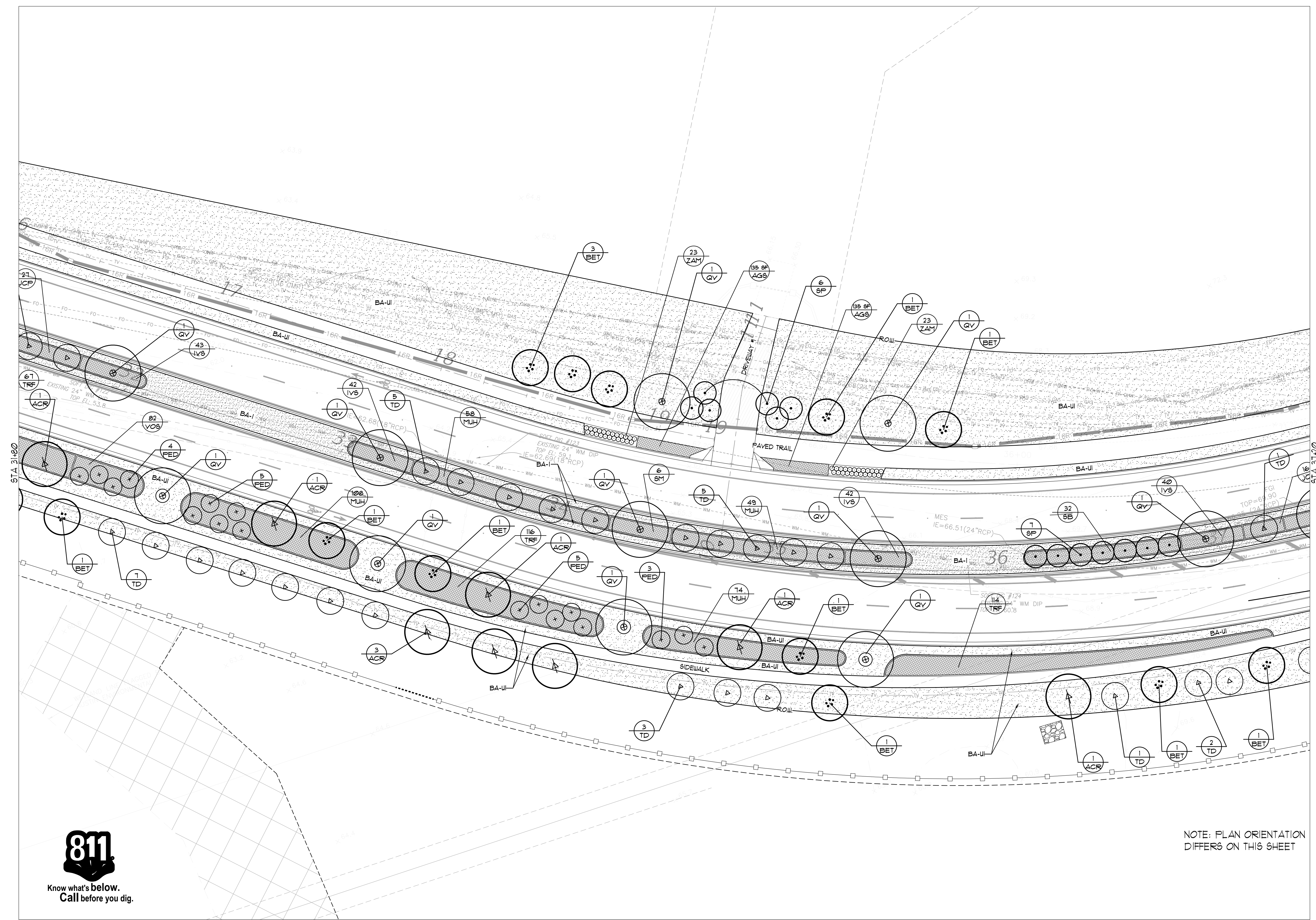
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OSCEOLA COUNTY, FL

LANDSCAPE
PLAN

Date: 04/18/2022
Scale: 1" = 20'-0"
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File Name: SBCYL-300.DWG



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L-302

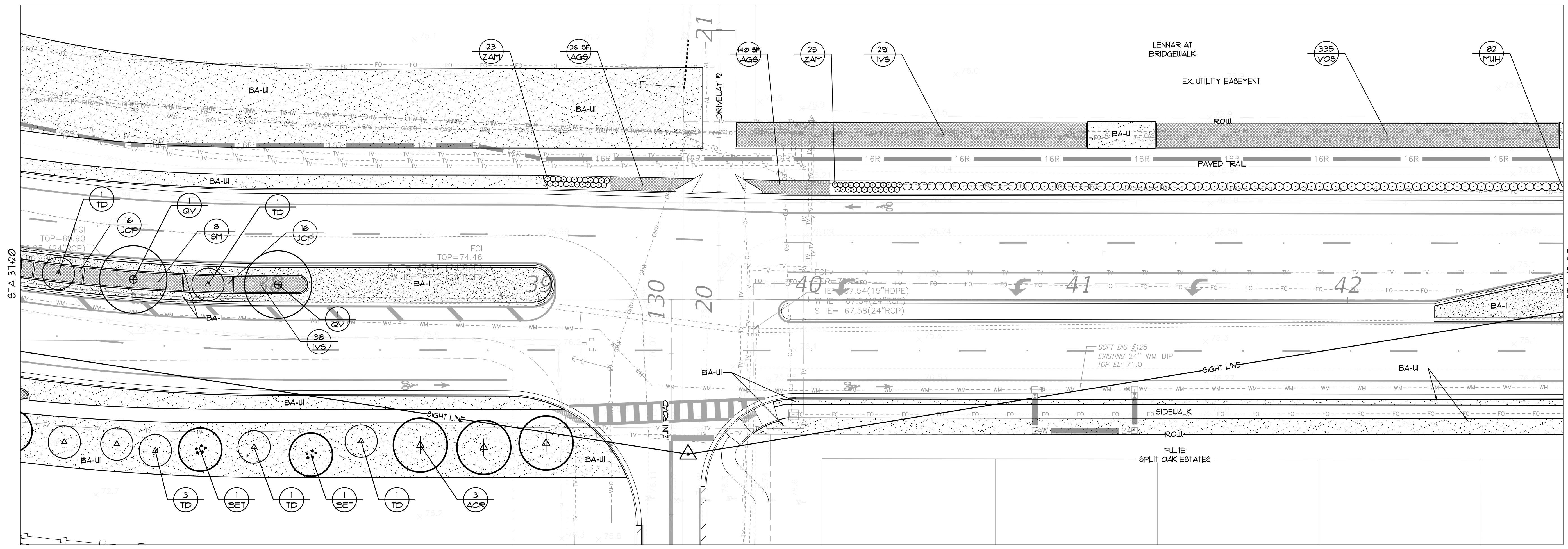


NOTE: PLAN ORIENTATION
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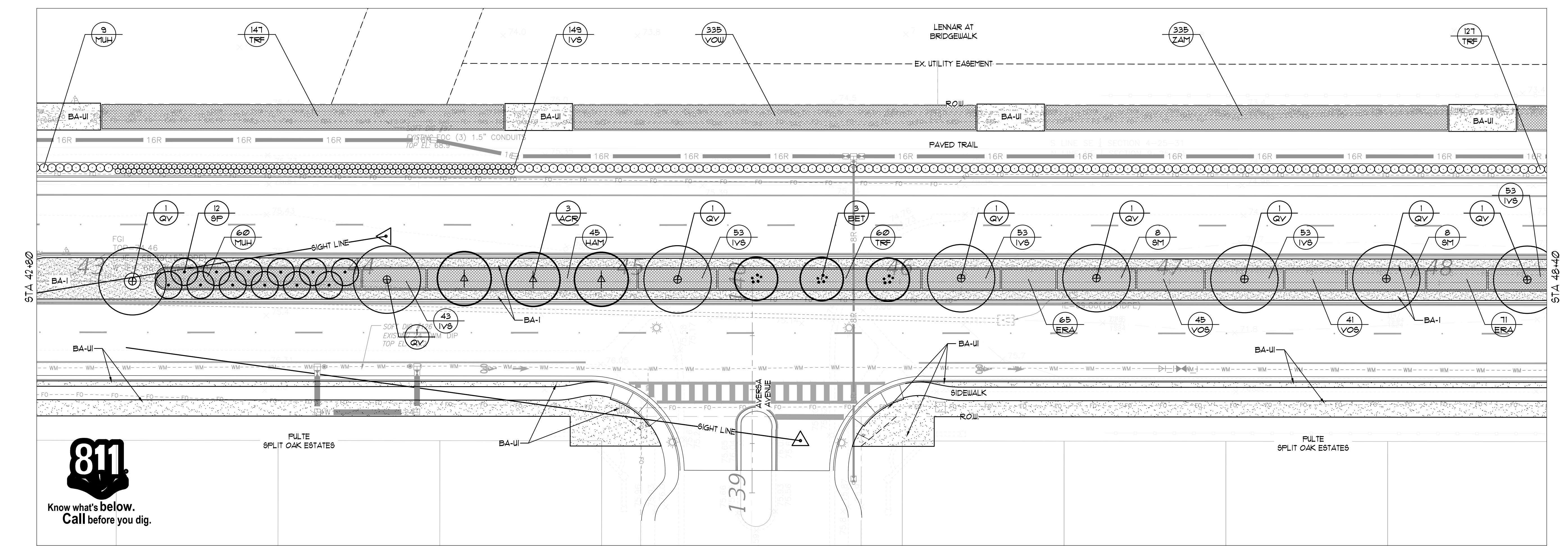




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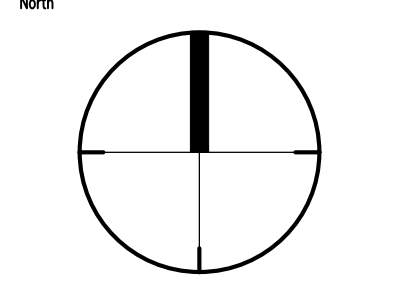
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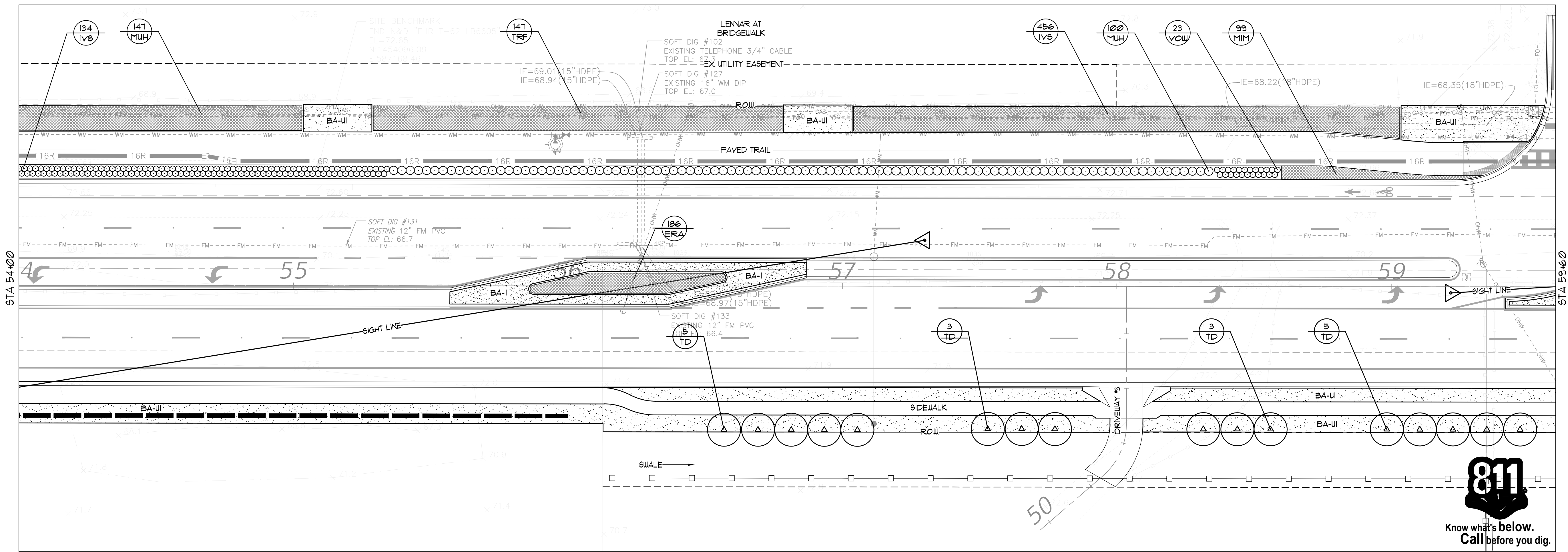
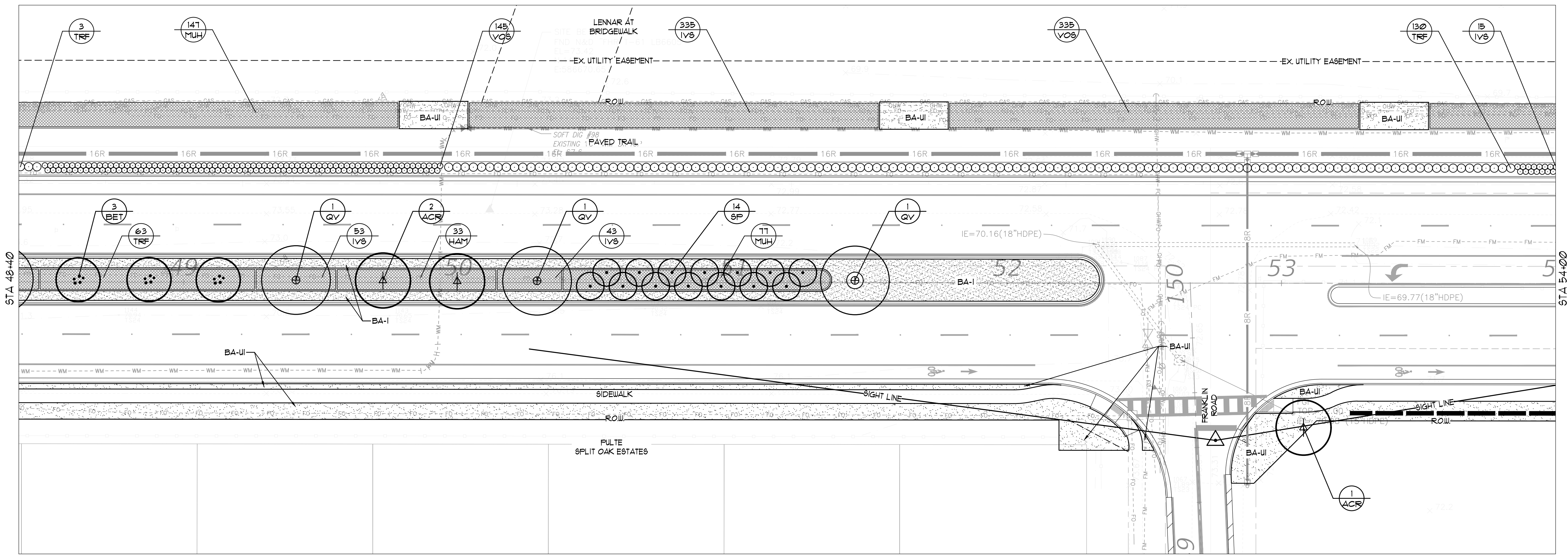
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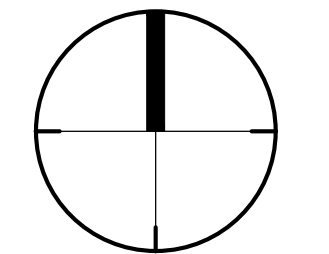
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LANDSCAPE PLAN

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Sheet
L-304





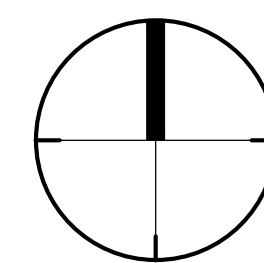
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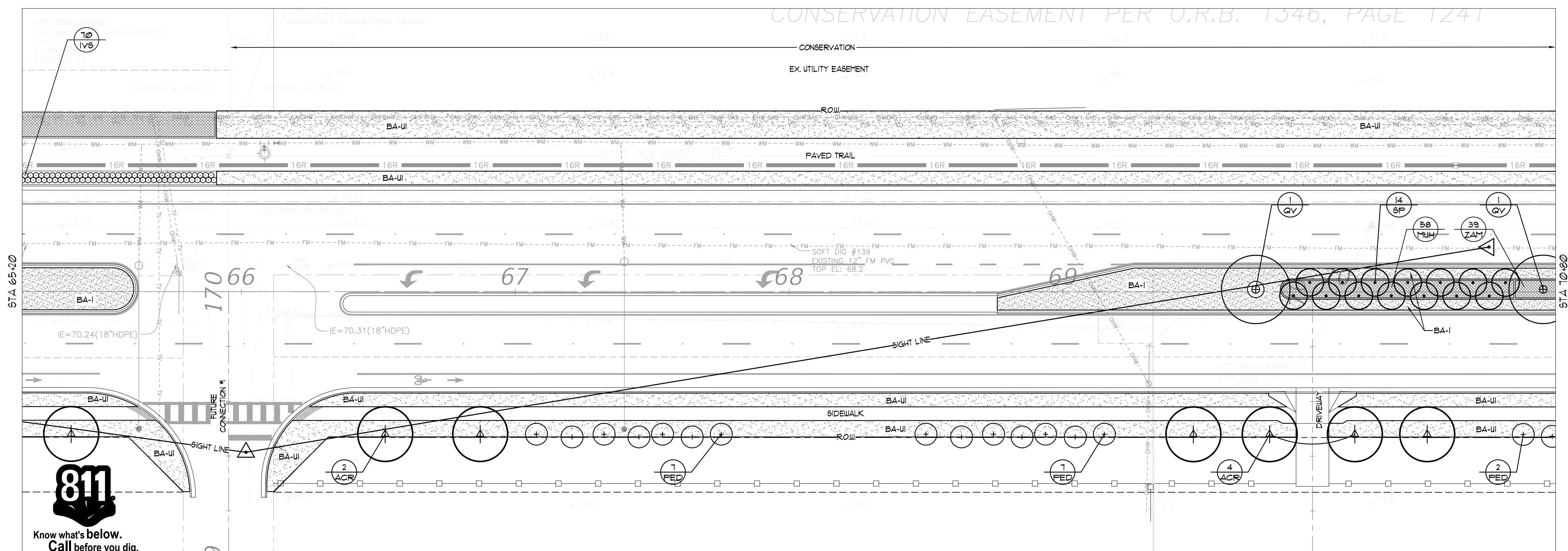
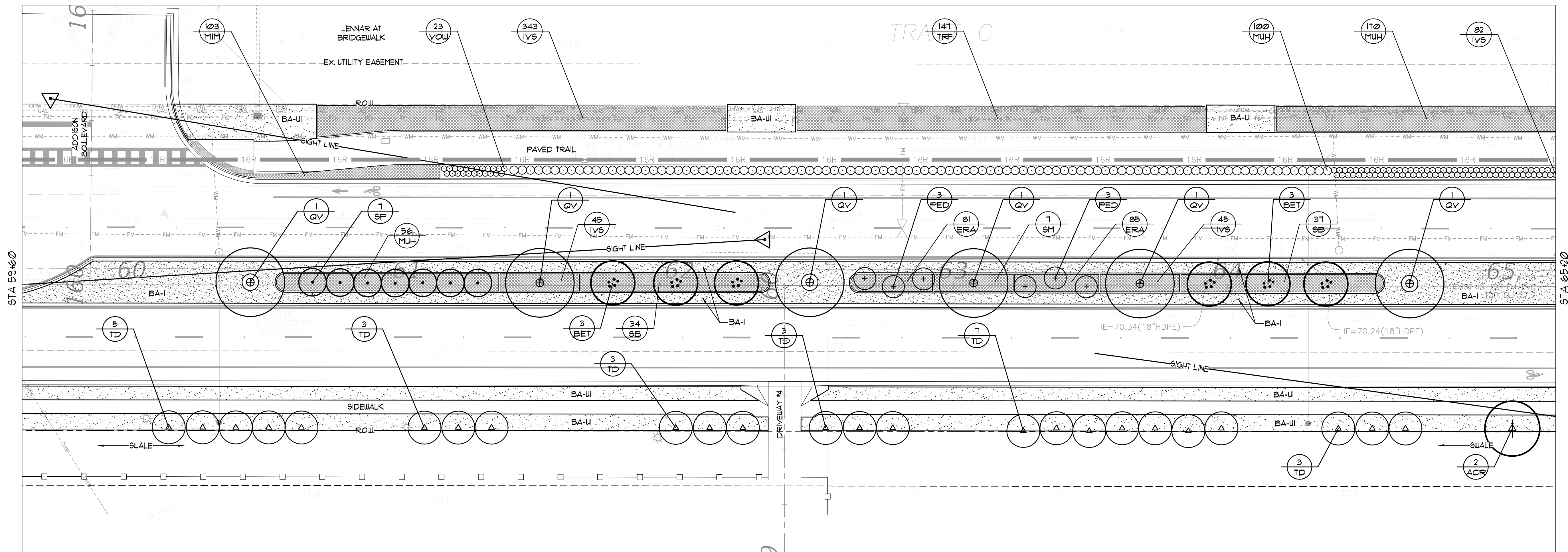
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ROAD WIDENING**
OSCEOLA COUNTY, FL

LANDSCAPE
PLAN

Date: 04/18/2022
Scale: 1" = 20'-0"
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Sheet
L-305



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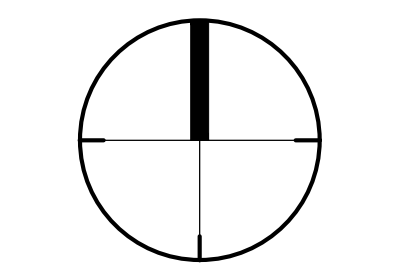
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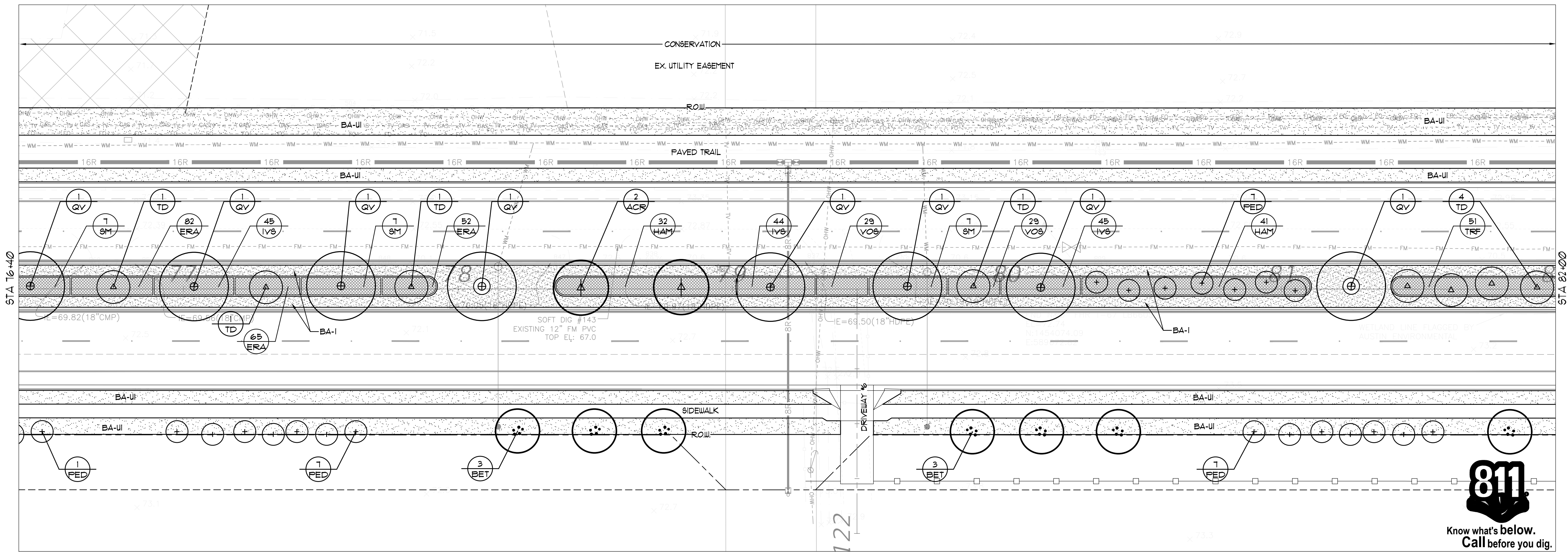
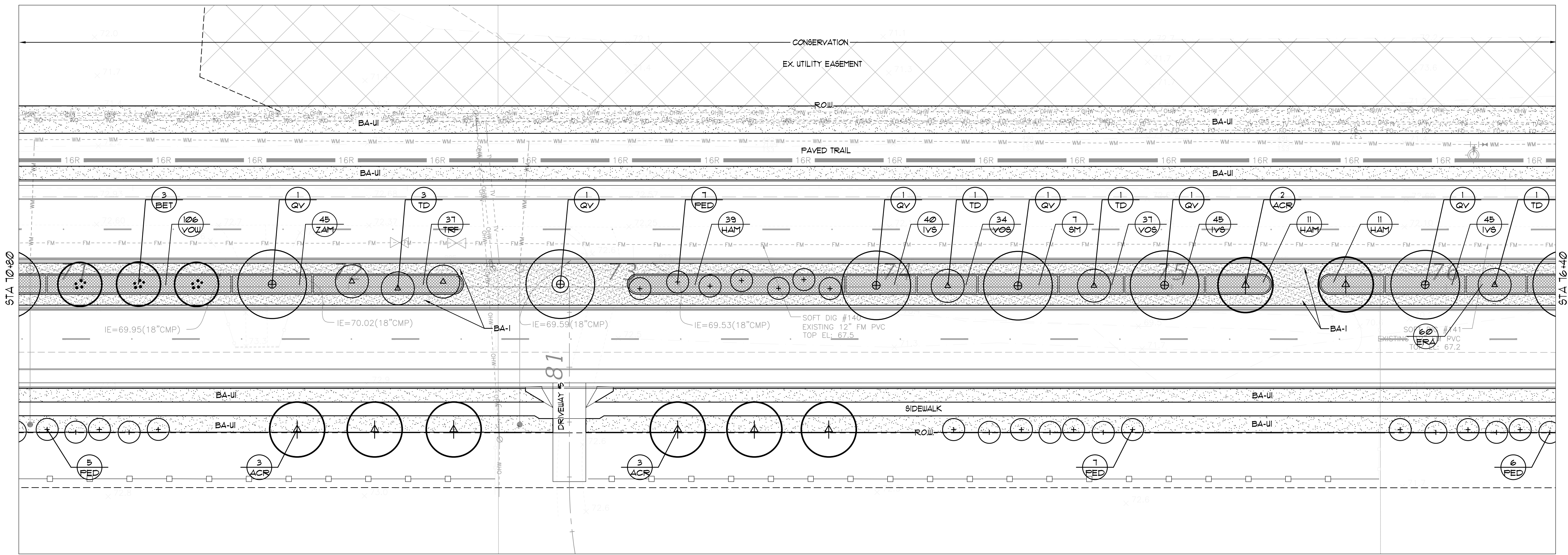
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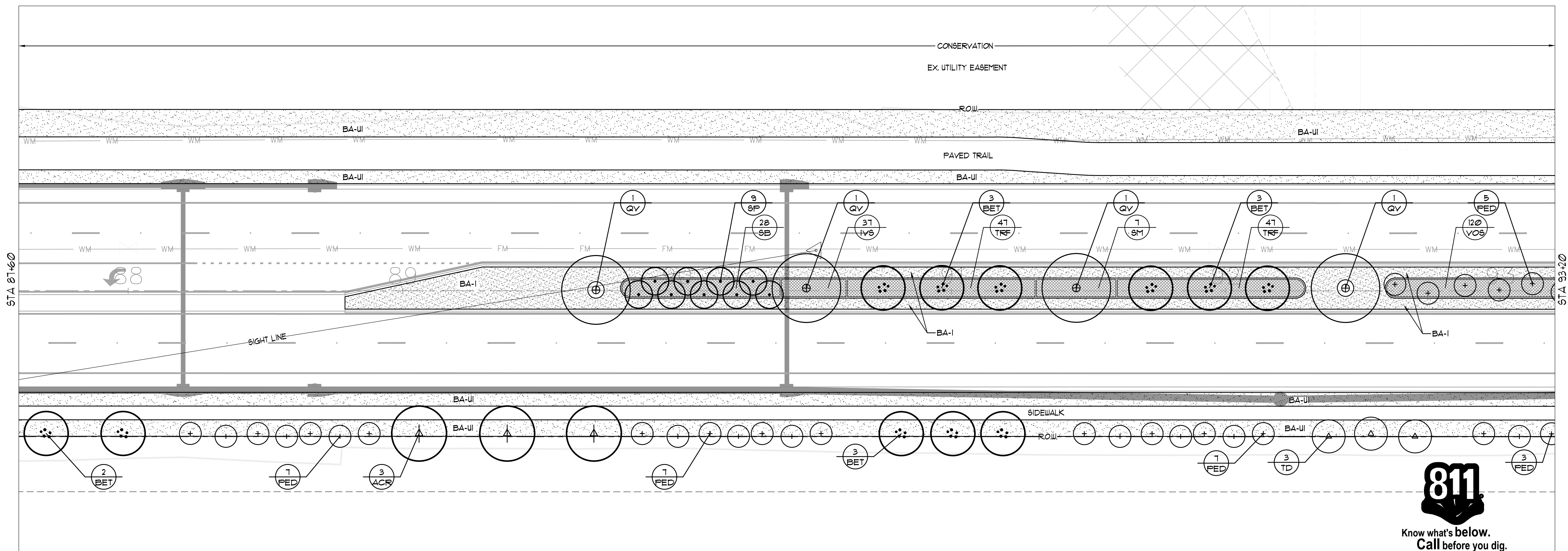
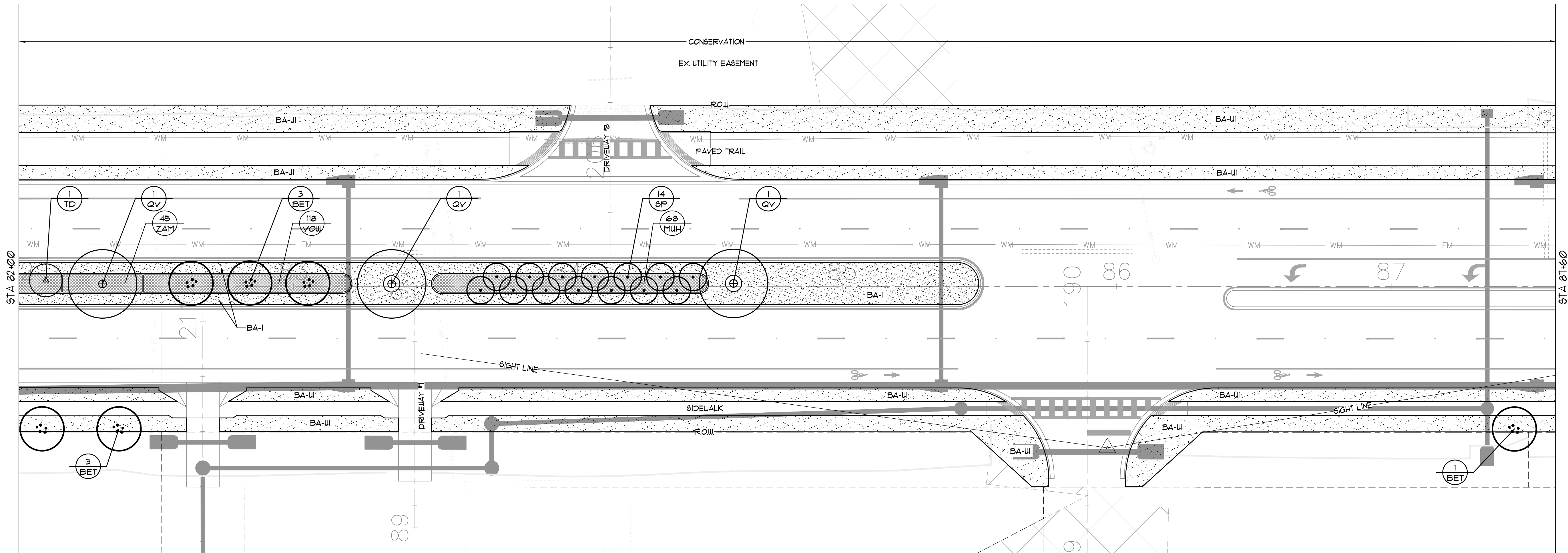
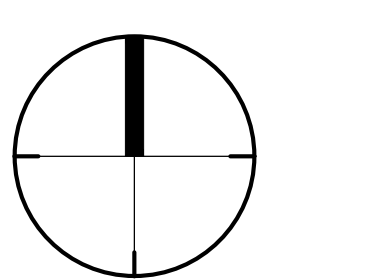
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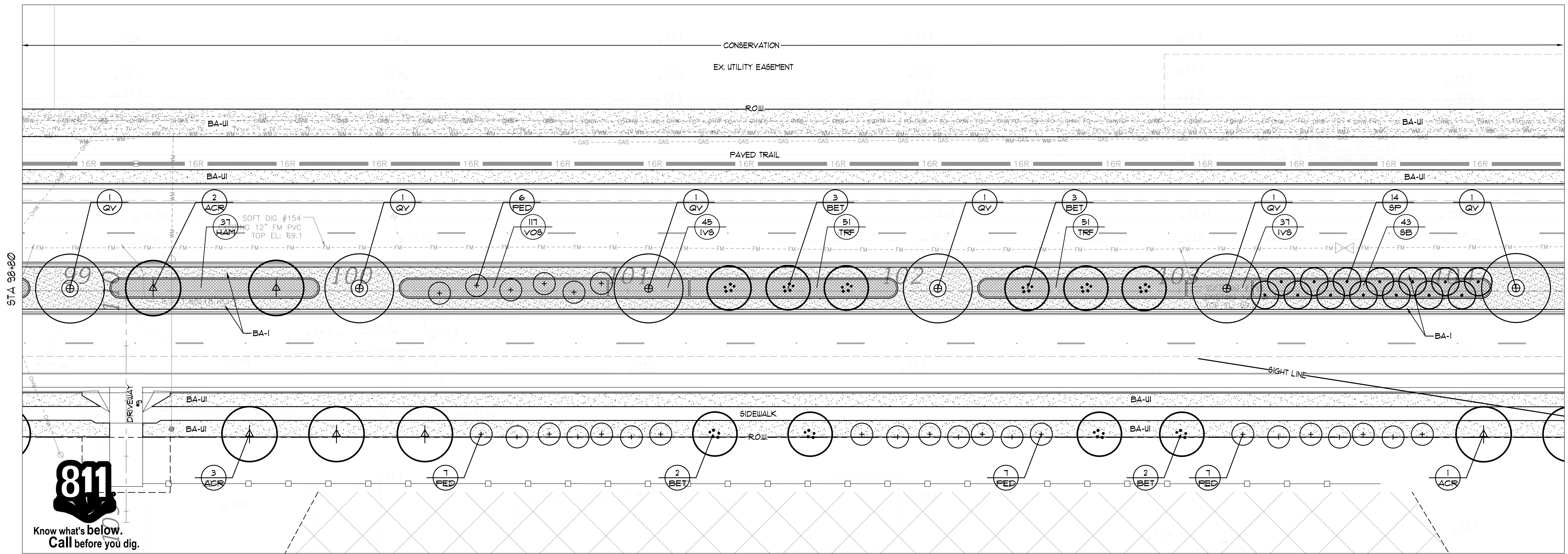
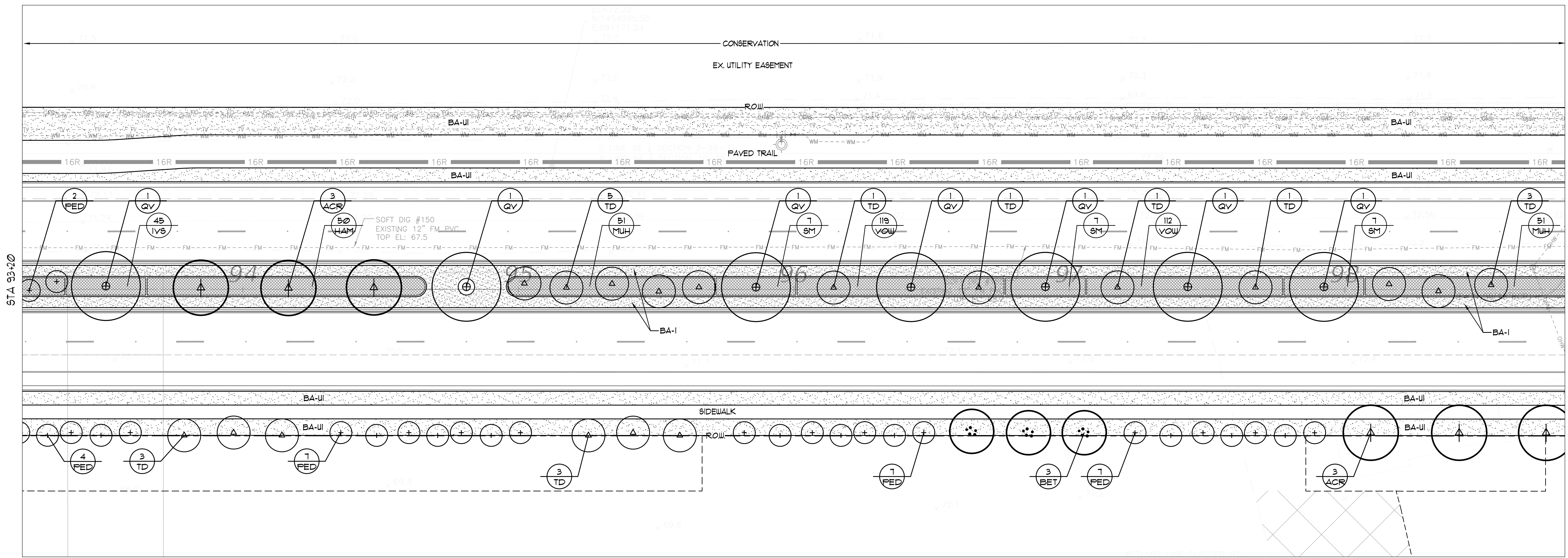
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Sheet
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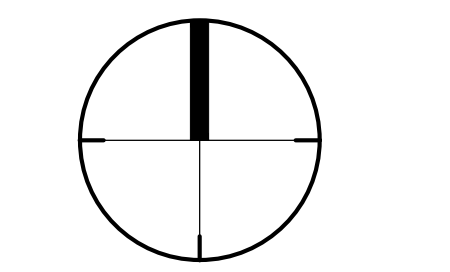


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LANDSCAPE PLAN

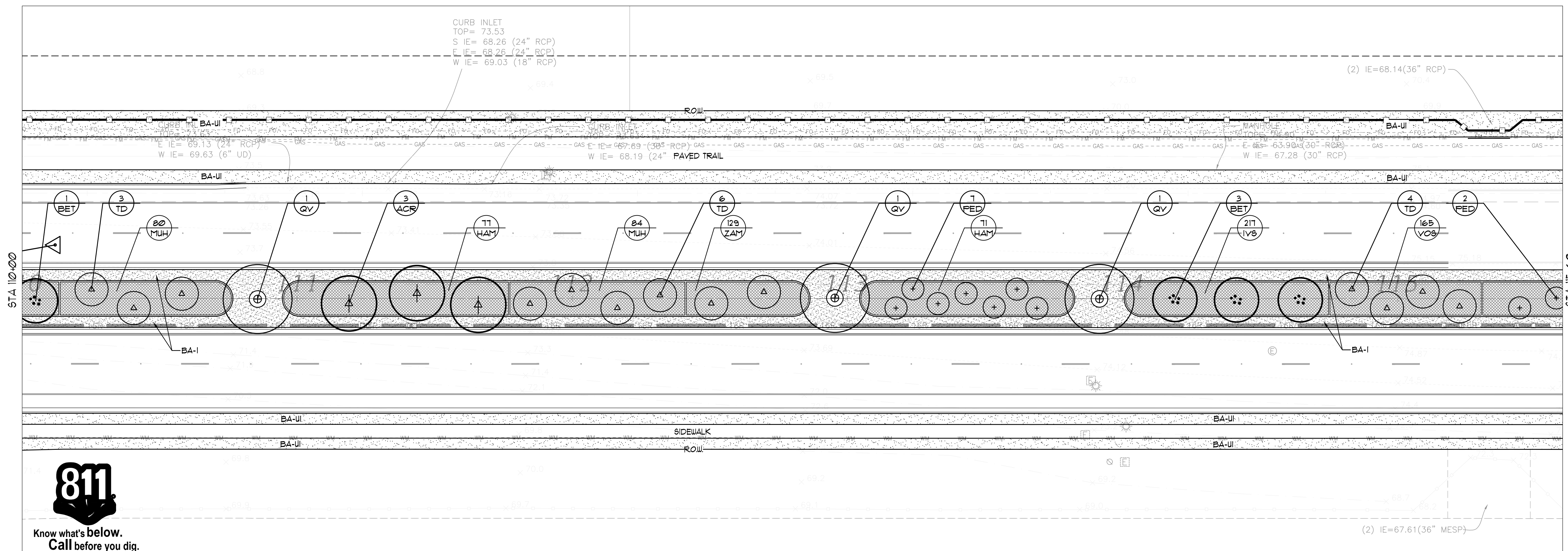
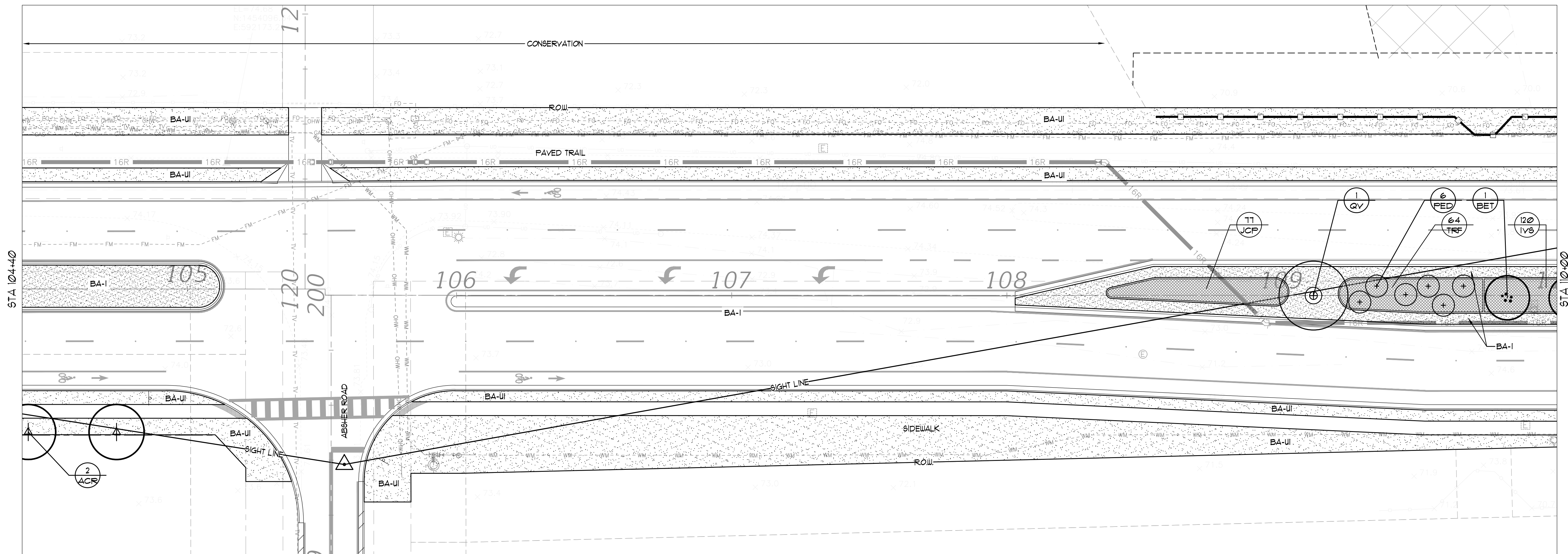
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Sheet
L-308



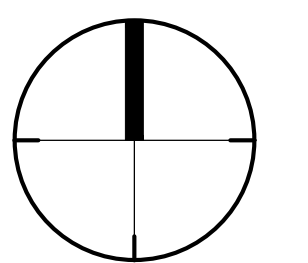
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PLAN

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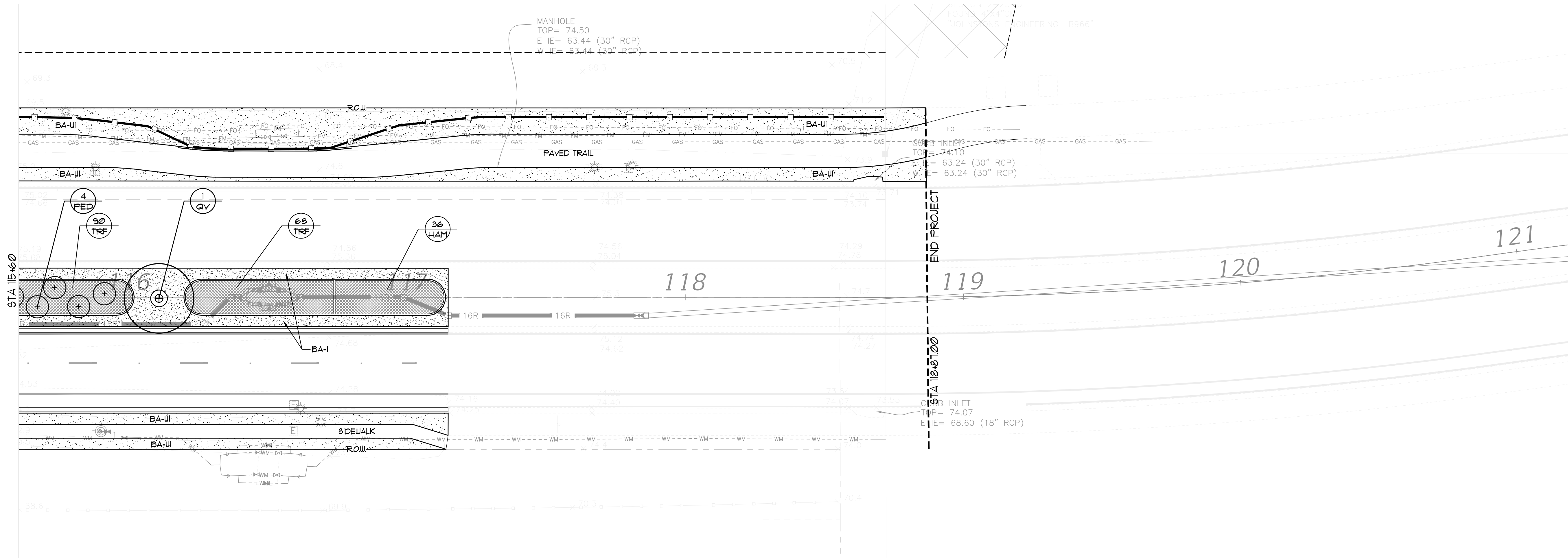
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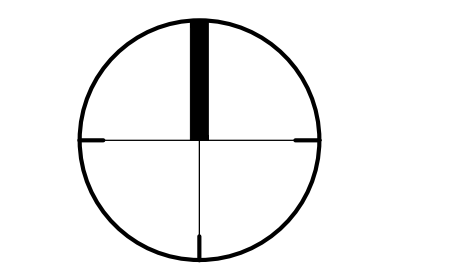


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LANDSCAPE PLAN

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Sheet
L-310



Know what's below.
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GENERAL LANDSCAPE NOTES

- THE CONTRACTOR SHALL VERIFY ALL PLANT MATERIAL QUANTITIES PRIOR TO BIDDING. IN THE EVENT OF A VARIATION BETWEEN THE PLANT LIST AND THE ACTUAL NUMBERS OF PLANTS SHOWN ON THE PLANS, THE PLANS SHALL CONTROL. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING A QUANTITY COUNT AS A CHECK FOR DISCREPANCIES. THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR ON THE SITE DURING CONSTRUCTION OF ALL PHASES OF THE WORK THROUGH FINAL OWNER ACCEPTANCE.
- THE CONTRACTOR SHALL SUBMIT UNIT PRICES FOR ALL BID ITEMS.
- THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO COMPLETE LANDSCAPING OF THE SITE AS INDICATED IN THE CONTRACT DOCUMENTS INCLUDING, BUT NOT LIMITED TO: PLANTING OF ALL PLANT MATERIALS, THE STAKING OF TREES AND THE CONTINUOUS MAINTENANCE AND PROTECTION OF ALL PLANT MATERIALS UPON THEIR ARRIVAL AT THE SITE THROUGH FINAL OWNER ACCEPTANCE. THE CONTRACTOR SHALL ALSO INCLUDE ALL COSTS ASSOCIATED WITH THE LOCATION OF UNDERGROUND UTILITIES, LAYOUT OF THE WORK, AND SOIL TESTING AS OUTLINED IN THE TECHNICAL SPECIFICATIONS.
- SUCCESSFUL BIDDER SHALL LOOK UP ALL MATERIALS IMMEDIATELY AFTER CONTRACT ASSIGNMENT. PLANTS SHALL BE HELD DURING THE PERIOD FROM CONTRACT TO INSTALLATION TO ALLOW FOR ADDITIONAL GROWTH. ALL PLANTS WILL BE REQUIRED TO BE FULL AND HEALTHY. CONTRACTOR SHALL ARRANGE FOR PLANT APPROVAL PRIOR TO DELIVERY EITHER BY SAMPLES, PHOTOS OR NURSERY VISITS. ALL TREES 4" CALIFER OR GREATER SHALL BE SELECTED AND LOCATED UNDER THE DIRECTION OF THE LANDSCAPE ARCHITECT/OWNER'S REPRESENTATIVE.
- ALL PLANT MATERIAL SHALL MEET OR EXCEED THE GRADE STANDARDS OF FLORIDA NO. 1 AS PROVIDED IN 'GRADES AND STANDARDS FOR NURSERY PLANTS' (LATEST EDITION), STATE OF FLORIDA, DEPARTMENT OF AGRICULTURE, TALLAHASSEE, AND ANY AMENDMENTS THERETO.
- ALL MATERIAL SHALL BE SOUND AND VIGOROUS, FREE FROM DISEASE, INSECT PESTS, AND/OR THEIR EGGS, AND SHALL HAVE A HEALTHY, NORMAL AND FULLY DEVELOPED ROOT SYSTEM. THE HEIGHT AND SPREAD OF PLANT MATERIAL SHALL BE THE DETERMINING FACTOR FOR THE PLANT MATERIAL, NOT THE GALLONAGE SPECIFIED. THE OWNER/LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ALL PLANT MATERIAL(S) THAT DO NOT MEET THE SPECIFICATIONS SET FORTH.
- ALL TREES WITH THE EXCEPTION OF PALMS SHALL BE EITHER CONTAINER GROWN OR FIELD GROWN. NO GROW BAGS WILL BE ACCEPTED.
- ALL PLANT MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE OWNER / LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. THE LANDSCAPE ARCHITECT MAY REJECT ANY PLANT MATERIAL BROUGHT TO THE SITE WHICH HE DEEMS TO BE OF INFERIOR QUALITY, INFERIOR APPEARANCE, DOES NOT MEET FLORIDA NO. 1 GRADE OR THAT DOES NOT MEET SPECIFIED SIZE.
- NO SUBSTITUTIONS WILL BE ALLOWED. IF NECESSARY, THE CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE OWNER / LANDSCAPE ARCHITECT.
- CALIFER OF TREES SHALL BE MEASURED IN ACCORDANCE WITH AAN STANDARDS OF 6" ABOVE TOP OF ROOTBALL FOR TREES 4" OR LESS IN CALIFER AND 12" ABOVE TOP OF ROOTBALL FOR TREES GREATER THAN 4" IN CALIFER.
- ALL PLANT MATERIAL SHALL BE PLANTED PER THE PLANTING DEPTH CHART DETAIL ON THE LANDSCAPE DETAILS SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER PLANT HEALTH IN ON-SITE SOILS.
- ALL TREES SHALL HAVE ALL SYNTHETIC BURLAP REMOVED FROM THE ENTIRE ROOT BALL. BURLAP SHALL BE REMOVED FROM THE TOP ONE-THIRD OF THE ROOT BALL. THE TOP THREE ROWS OF SQUARES ON ALL CAGES AROUND THE ROOT BALLS SHALL BE CLIPPED OFF AND REMOVED.
- ALL PLANT MATERIAL SHALL BE GUARANTEED AND WARRANTED PER SECTION 3.13 GUARANTEED PROVING PERIOD OF THE LANDSCAPE SPECIFICATIONS.
- ALL AREAS DESIGNATED AS SOD ON THE PLANS SHALL BE COVERED WITH ARGENTINE BAHIA SOLID SOD.
- ALL PLANT BEDS AND DESIGNATED 'MULCH' AREAS SHALL BE TOP-DRESSED WITH MULCH, INCLUDING WITHIN A 2' RADIUS AROUND THE TRUNK OF A TREE. MULCH SHALL BE PINE BARK 'MINI NUGGETS' INSTALLED TO A MINIMUM DEPTH OF 3" AND PER THE LANDSCAPE DETAILS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL REVIEW THE SOILS REPORT ON FILE WITH THE OWNER.
- THE CONTRACTOR SHALL PROVIDE SOIL TESTING PER SECTION 2.01 SOIL BACKFILL OF THE LANDSCAPE SPECIFICATIONS. IMPROPER SOIL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL RECTIFY ALL INCURRED DAMAGES AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL VISUALLY INSPECT THE SOILS CONDITION OF THE SITE AND SHALL PERFORM PERCOLATION TESTS PER THE GUIDELINES OUTLINED IN SECTION 3.03 PREPARATION BEFORE PLANTING OF THE LANDSCAPE SPECIFICATIONS. THE CONTRACTOR SHALL RECOMMEND SUBSTITUTIONS OF PLANT MATERIAL AND PLANTING INSTALLATION TO ACCOMMODATE POOR DRAINING SOILS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW ALL ARCHITECTURAL AND ENGINEERING PLANS TO BECOME FAMILIAR WITH ALL SURFACE AND SUBSURFACE UTILITIES. THE CONTRACTOR SHALL FIELD VERIFY ALL BASE INFORMATION, INCLUDING GRADES, DIMENSIONING AND EXISTING CONDITIONS PRIOR TO INSTALLATION OF THE WORK. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITY LOCATIONS AND DEPTHS PRIOR TO LANDSCAPE INSTALLATION.
- THE CONTRACTOR SHALL PROVIDE TO THE LANDSCAPE ARCHITECT A WRITTEN LETTER OF ACCEPTABILITY OF GRADES. FAILURE TO DO SO WILL BE VIEWED AS AN ACCEPTANCE OF EXISTING GRADES BY THE CONTRACTOR. THE INSTALLATION OF PLANT MATERIAL SHALL BE VIEWED AS ACCEPTANCE BY THE CONTRACTOR OF EXISTING GRADES AS GIVEN TO HIM.
- CONTRACTOR SHALL BE RESPONSIBLE FOR RECEIVING THE LANDSCAPE ARCHITECT'S APPROVAL OF ALL PLANT BED LAYOUTS AND TREE LOCATIONS PRIOR TO INSTALLATION. IF PLANT MATERIAL IS INSTALLED PRIOR TO LANDSCAPE ARCHITECT'S APPROVAL, CONTRACTOR WILL BE SUBJECT TO RELOCATING THE MATERIAL AT THE LANDSCAPE ARCHITECT'S REQUEST AND AT THE CONTRACTOR'S OWN EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NORMAL HIGH WATER ELEVATION OF THE RETENTION POND(S) WITH THE CIVIL ENGINEER PRIOR TO PLANTING ANY SPECIFIED TREES OR LITTORAL PLANTINGS IN THE IMMEDIATE POND VICINITY. THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IF THE NORMAL HIGH WATER ELEVATION IS NOT AS SHOWN ON THE LANDSCAPE PLANS SO THAT PROPER REVISIONS CAN BE MADE.
- CONTRACTOR SHALL ANTICIPATE THAT THE FIRST 5 FEET AROUND THE BUILDING PERIMETER WILL BE COMPACTED. THESE AREAS SHALL BE TILLED AND IMPROVED IN ORDER TO SUSTAIN VIGOROUS, HEALTHY PLANT GROWTH.
- WHERE LIGHT POLES OR STREET SIGNS OCCUR IN PROXIMITY TO TREES MINIMUM SEPARATION SHALL BE MAINTAINED PER THE TREE PLACEMENT DETAIL ON THE LANDSCAPE DETAILS SHEET.
- IF APPLICABLE, PRIOR TO THE REMOVAL OF ANY TREES, THE TREES TO BE RETAINED SHALL HAVE PROTECTIVE TREE BARRIERS PER THE TREE PROTECTION DETAIL.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF THE SITE INCLUDING ALL MOWING, EDGING, TRIMMING, PRUNING & SPRAYING OF PESTICIDES & FUNGICIDES UNTIL THE TIME OF FINAL ACCEPTANCE BY THE OWNER. IF PROJECT IS INSTALLED IN PHASES, OWNER WILL PROVIDE PHASING INFORMATION AT TIME OF BIDDING PROCESS.
- THE CONTRACTOR SHALL READ AND ADHERE TO ALL WRITTEN SPECIFICATIONS. THESE PLANS ARE NOT VALID WITHOUT THE ACCOMPANYING TECHNICAL SPECIFICATIONS.
- CONTRACTOR IS EXPECTED TO CARRY OUT ALL RESPONSIBILITIES AS SET FORTH IN THESE LANDSCAPE NOTES AND IN THE LANDSCAPE SPECIFICATIONS. THEY WILL BE STRICTLY ENFORCED BY THE OWNER/LANDSCAPE ARCHITECT.

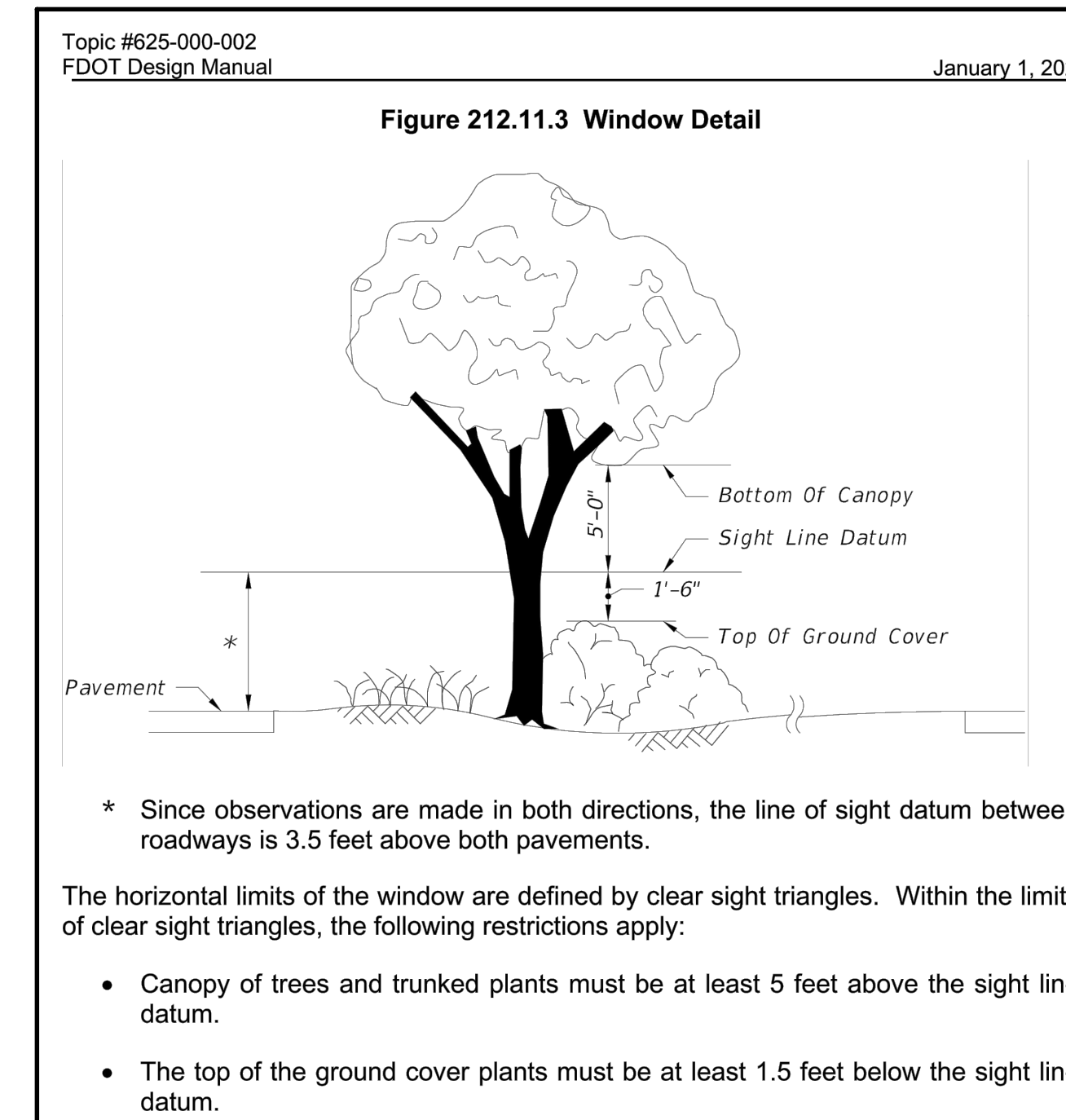
PLANT LIST

TREES				
SYM	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION
ACR	60	ACER RUBRUM 'FLORIDA FLAME'	FLORIDA FLAME RED MAPLE	MIN. 3" CAL., 14'-16" HT. X 5'-6" SPRD., RPG
BET	83	BETULA NIGRA 'DURA HEAT'	DURA HEAT RIVER BIRCH	MIN. 3" AGG. CAL., 10'-12" HT. X 5'-6" SPRD., 3-TRUNK FULL, RPG
PED	197	PINUS ELLIOTTI DENSA	DENSA SLASH PINE	MIN. 3" CAL., 10'-12" HT. X 4' SPRD., RPG
QV	91	QUERCUS VIRGINIANA	LIVE OAK	MIN. 3" CAL., 14'-16" HT. X 5'-6" SPRD., SINGLE STRAIGHT LEADER, RPG
SP	127	SABAL PALMETTO	CABBAGE PALM	18' SLICK CLEAR TRUNK, MATCHED, REGENERATED ROOTS, STRAIGHT
TD	151	TAXODIUM DISTICHUM	BALD CYPRESS	MIN. 3" CAL., 12'-14" HT. X 5'-6" SPRD., SINGLE STRAIGHT LEADER, RPG

SHRUBS & GROUNDCOVERS				
SYM	QTY	BOTANICAL NAME	COMMON NAME	SPECIFICATION
ERA	959	ERAGROSTIS ELLIOTTII	ELLIOT'S LOVEGRASS	1 GAL., FULL, 18" O.C.
HAM	483	HAMELIA PATENS 'COMPACTA'	DWARF FIREBUSH	3 GAL., 12"-14" HT. X 14"-16" SPRD., 42" O.C.
IVS	4065	ILEX VOMITORIA 'STOKES DWARF'	DWF. YAUPON HOLLY	3 GAL., 10"-12" HT. X 12"-14" SPRD., 24" O.C.
JCP	162	JUNIPERUS CHINENSIS PARSONII	PARSONS JUNIPER	3 GAL., 10"-12" HT. X 14"-16" SPRD., 30" O.C.
MIM	202	MIMOSA STRIGILLOSA	SUNSHINE POWDERPUFF	1 GAL., FULL, 18" O.C.
MUH	2004	MUHLENBERGIA CAPILLARIS	PINK MUHLY GRASS	3 GAL., FULL, 36" O.C.
SM	124	SABAL MINOR	DWARF PALMETTO	3 GAL., FULL, 60" O.C.
SB	239	SPARTINA BAKERI	CORDGRASS	3 GAL., FULL, 36" O.C.
TRF	1787	TRIPSACUM FLORIDANUM	DWARF FAKAHATCHEE	3 GAL., FULL, 42" O.C.
VOS	2201	VIBURNUM OBOVATUM 'MRS. SCHILLER'S DELIGHT'	DWF. WALTER'S VIBURNUM	3 GAL., 12"-14" HT. X 14"-16" SPRD., 24" O.C.
VOW	950	VIBURNUM OBOVATUM 'WHORLED CLASS'	DWF. WALTER'S VIBURNUM	3 GAL., 12"-14" HT. X 14"-16" SPRD., 24" O.C.
ZAM	1226	ZAMIA PUMILA	COONTIE	3 GAL., 14"-16" HT. X 12"-14" SPRD., 24" O.C.

GROUNDCOVER SOD				
SYM	SQ. FT.	BOTANICAL NAME	COMMON NAME	SPECIFICATION
AGS	996	ARACHIS GLABRATA 'ECOTURF'	RHZOMOUS PERENNIAL PEANUT	SOLID SOD, PEST AND DISEASE FREE, WEED FREE

TURFGRASS SOD				
SYM	SQ. FT.	BOTANICAL NAME	COMMON NAME	SPECIFICATION
SOD	331669	PASPALUM NOTATUM 'ARGENTINE'	ARGENTINE BAHIA SOD	SOLID SOD, PEST AND DISEASE FREE, WEED FREE AND FLUSHED



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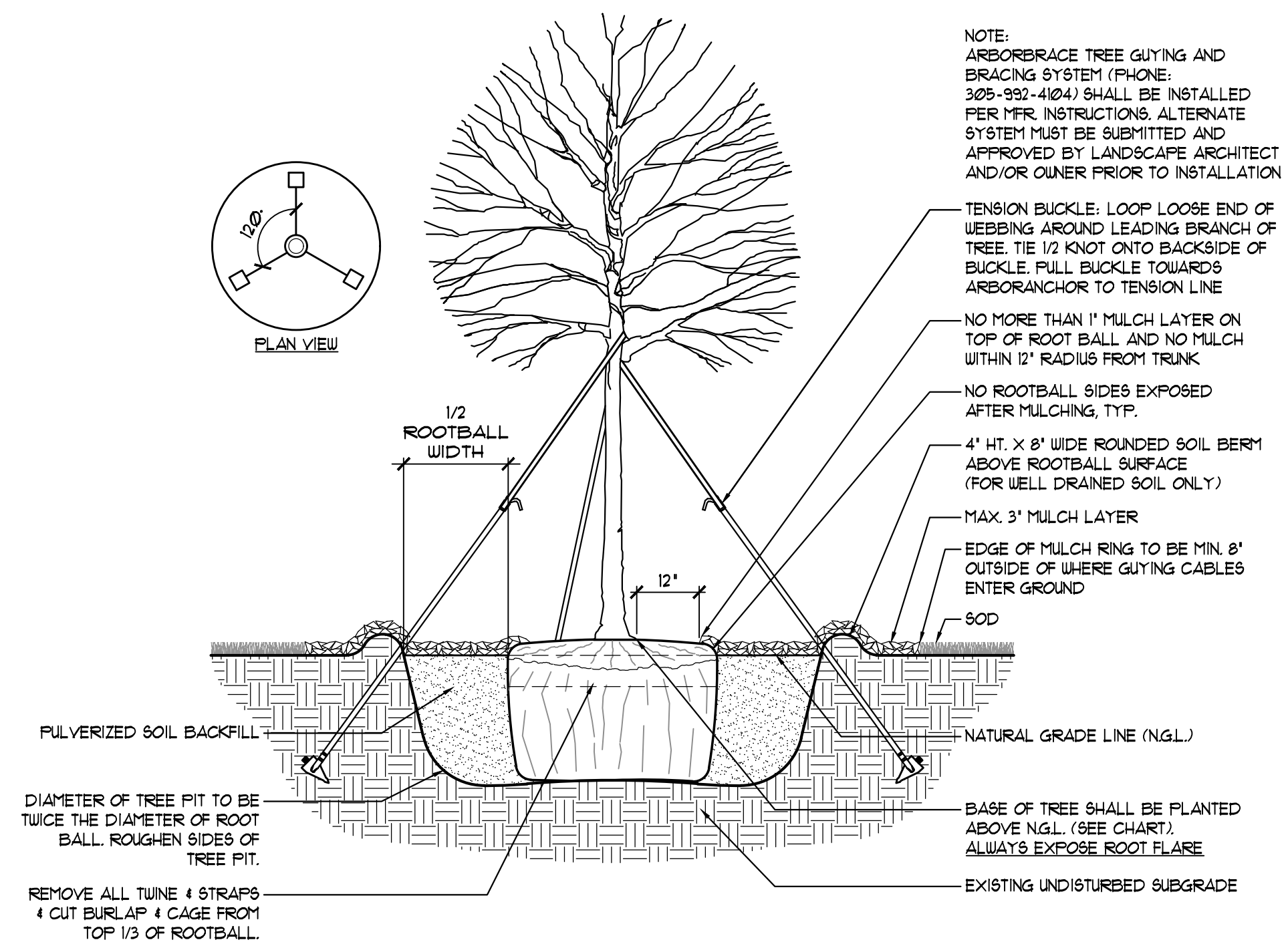
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**CYRILS DRIVE /
NARCOOSSEE ROAD
TO ABSHER ROAD -
ROAD WIDENING
OSCEOLA COUNTY, FL**

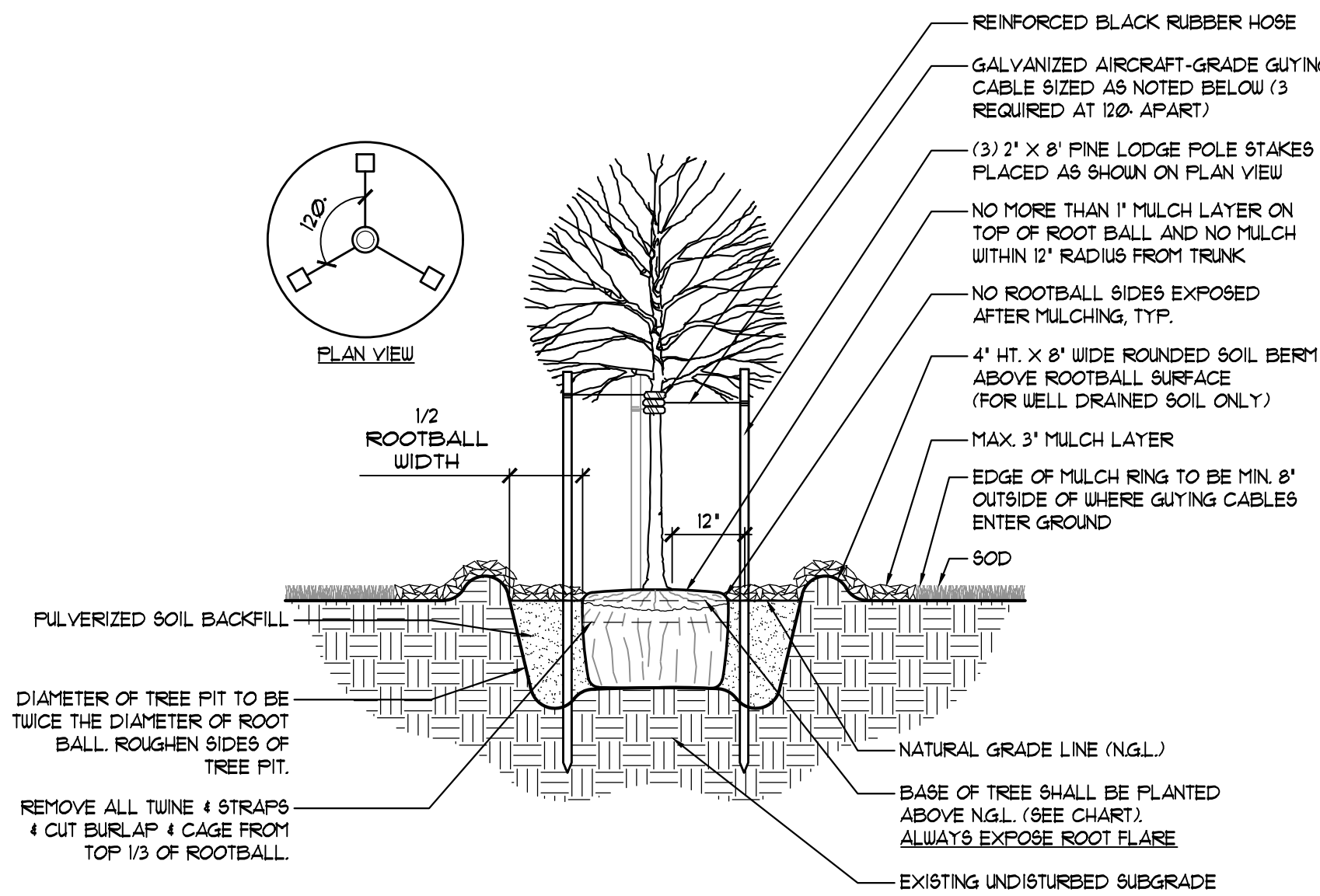
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LANDSCAPE NOTES**

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North

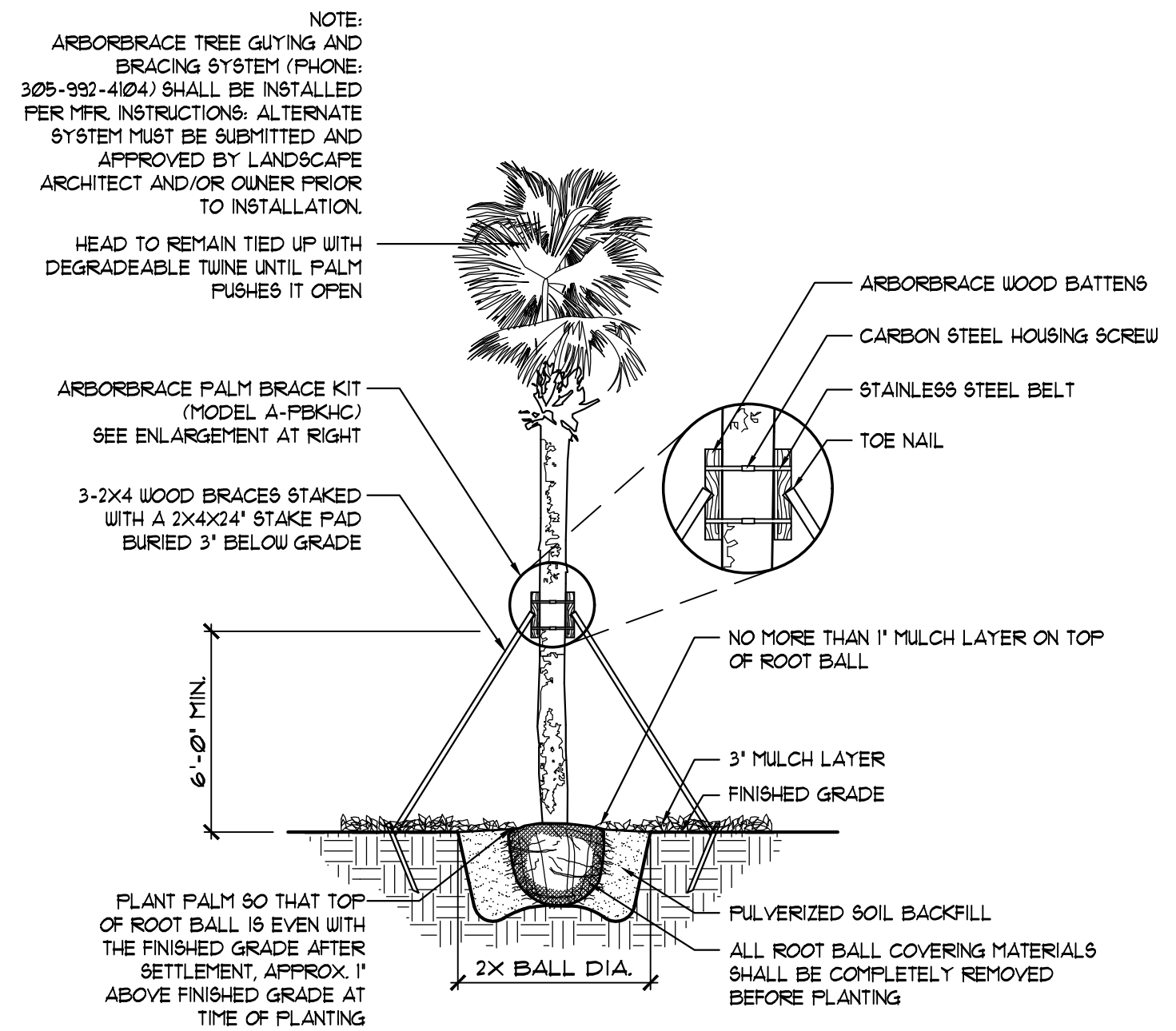
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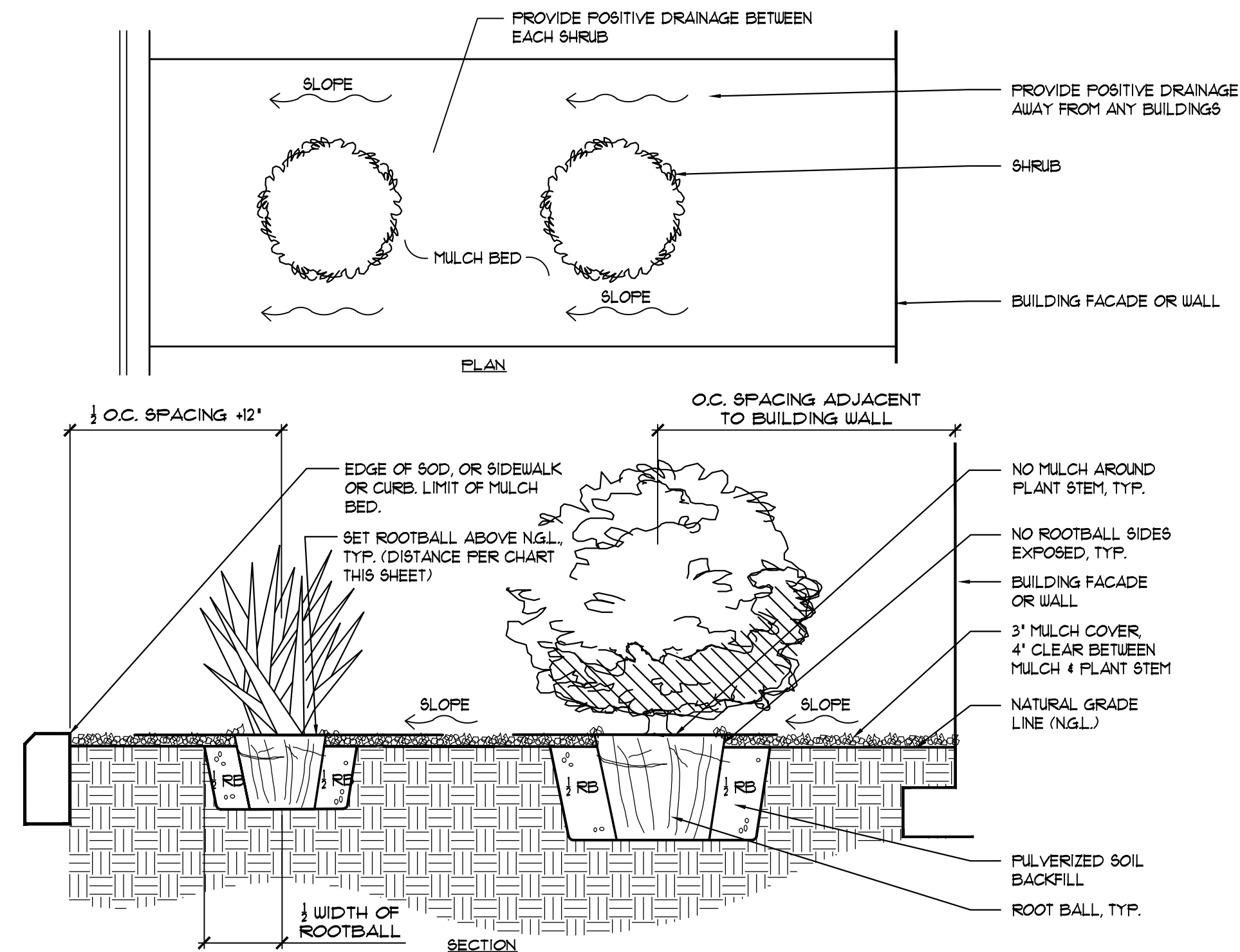
LARGE TREE PLANTING DETAIL - BALL & BURLAP
SCALE: N.T.S.



SMALL TREE PLANTING DETAIL - CONTAINER
(NOTE: TO BE UTILIZED FOR TREES 10' IN HEIGHT AND UNDER)
SCALE: N.T.S.



REGENERATED SABAL PALM PLANTING DETAIL
SCALE: N.T.S.

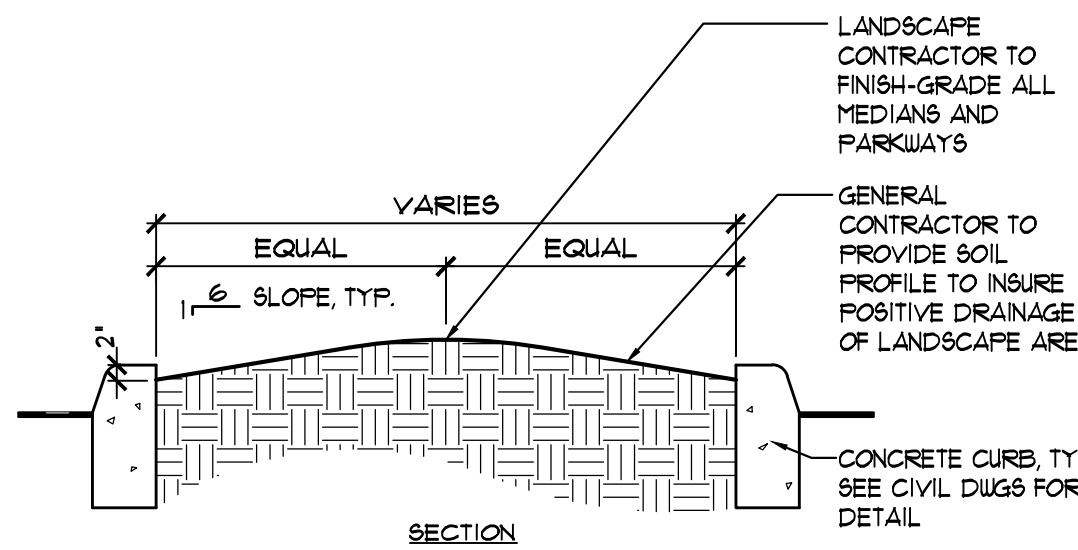


SHRUB PLANTING DETAIL
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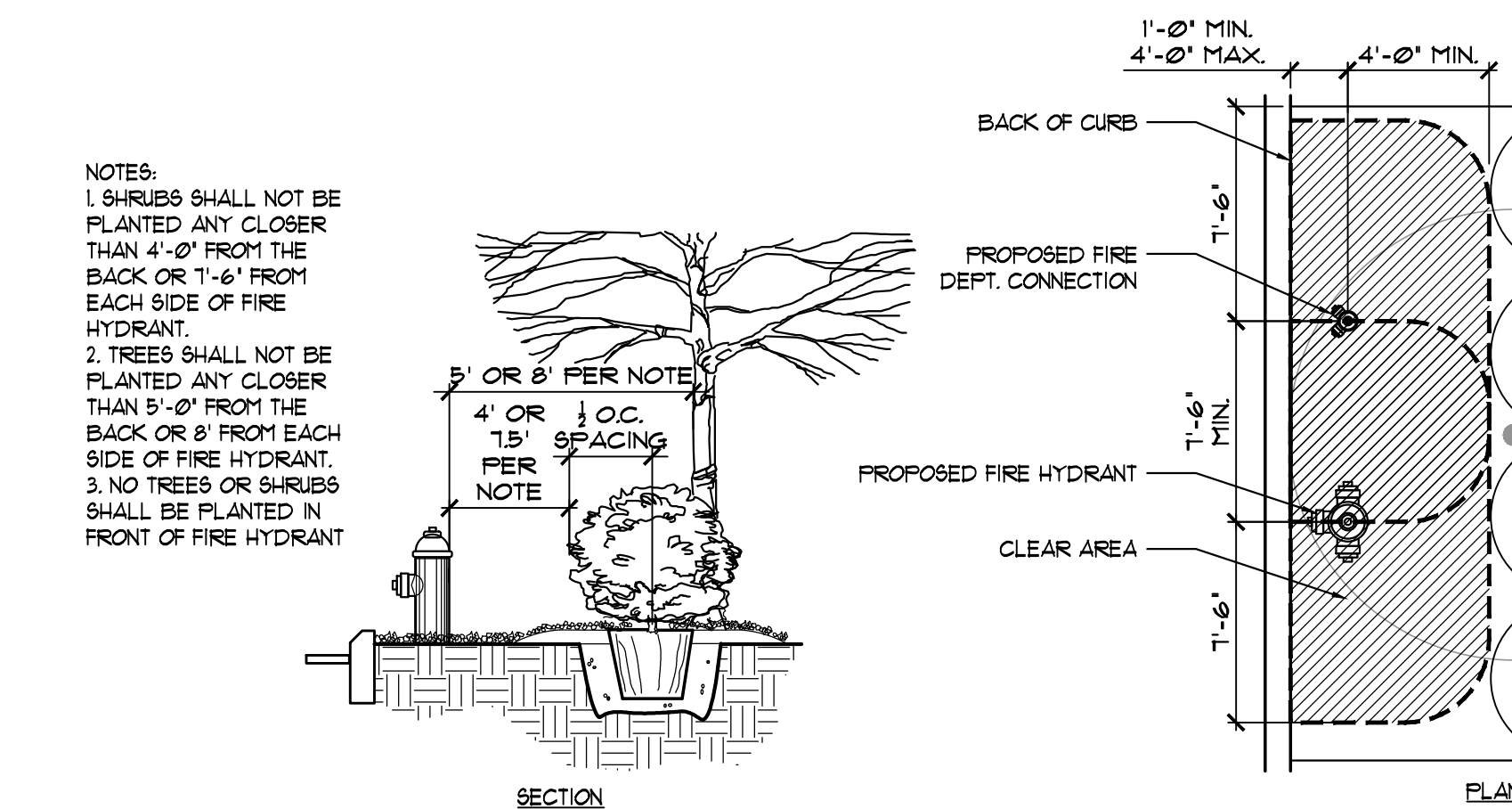
TOP OF PLANT ROOTBALL IN RELATION TO NATURAL GRADE LINE (NGL.)

CONTAINER SIZE	1-3 GAL.		5-1 GAL.		15-65 GAL.		100 GAL.	
	DRY	WET	DRY	WET	DRY	WET	DRY	WET
ROOTBALL HT. ABOVE NGL.	1'	1-1/2'	1-1/2'	2'	3'	3-1/2'	3-1/2'	4'

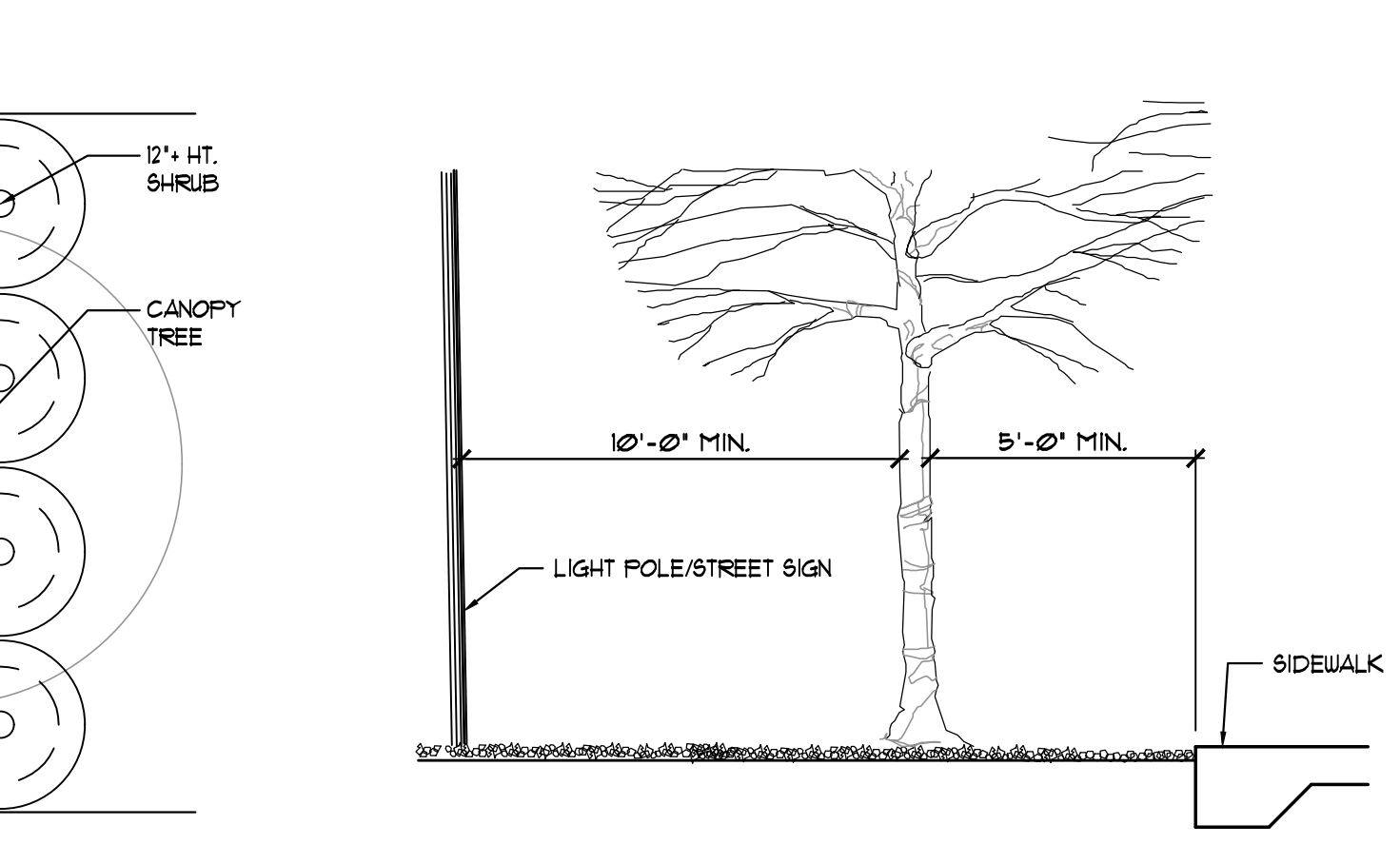
PLANTING DEPTH CHART FOR TREES AND SHRUBS



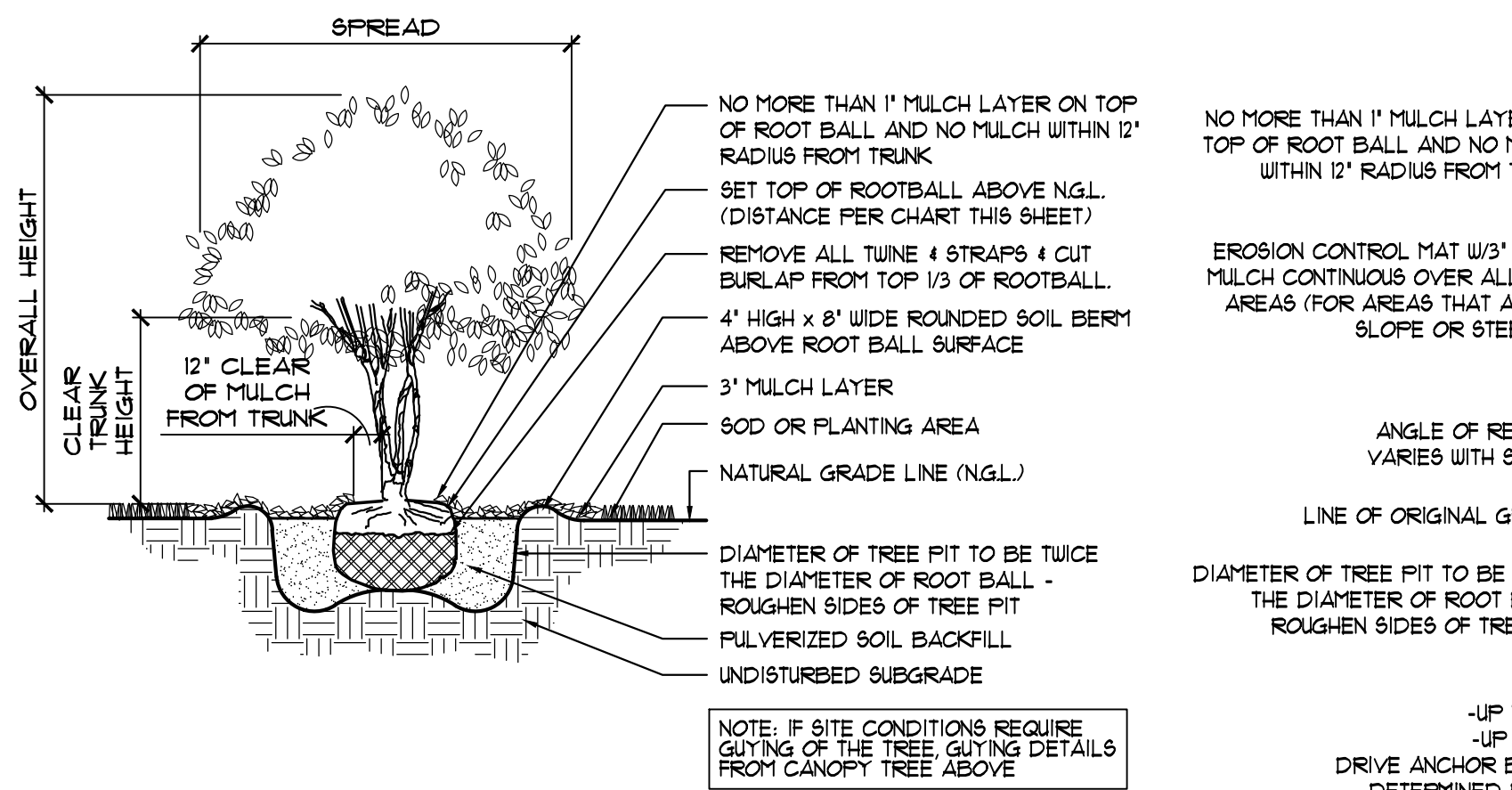
TYPICAL LANDSCAPE ISLAND DETAIL
SCALE: N.T.S.



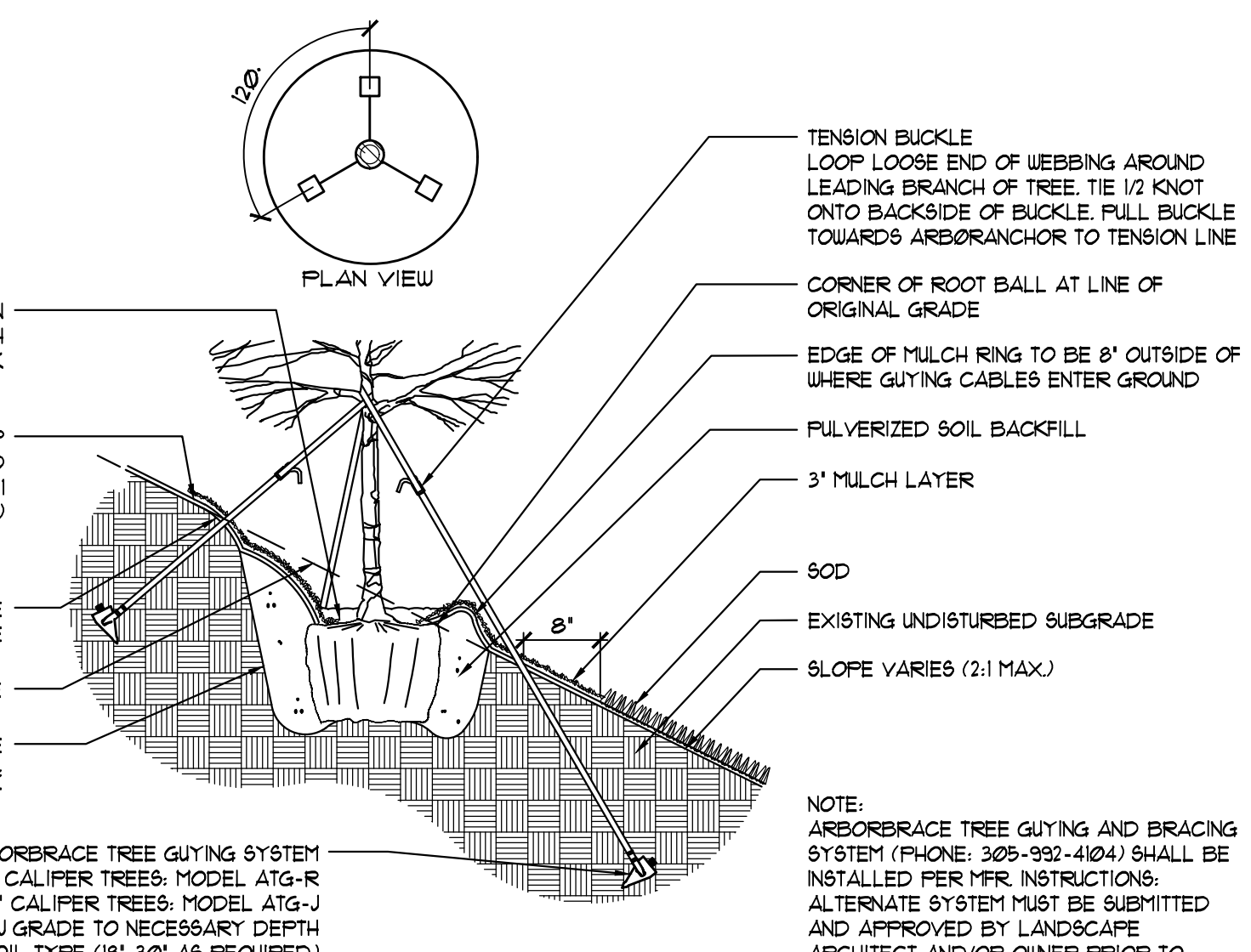
PLANTING SHRUBS AND TREES ADJACENT TO HYDRANT
SCALE: N.T.S.



TREE PLACEMENT DETAIL
SCALE: N.T.S.



MULTI-TRUNK PLANTING DETAIL
SCALE: N.T.S.



TREE PLANTING ON SLOPE DETAIL
SCALE: N.T.S.

PART 3 - EXECUTION

3.01 DELIVERY, STORAGE AND HANDLING OF PLANT MATERIAL

A. The Contractor shall exercise care in handling, loading and unloading, storage and transporting all plant material and allied materials to prevent damage. The Contractor shall assume full responsibility for protection and safekeeping of products stored on the job.

B. The Contractor shall dig and prepare B4B and W4B plant material for shipment in a manner that will not damage roots, branches, shape and future development after planting.

C. Trees indicated on the plans as W4B and those where size, soil conditions and distance of transport to the site would warrant, shall be wireballed. Bottom wired baskets manufactured specifically for use in tree handling may be used.

D. The Contractor shall handle all plants so that roots and branches are protected at all times from drying out, heating and from other injury. All plants shall be handled by the ball or container.

E. When transporting plants to and at the site, the Contractor shall make provisions to protect plants from wind damage by avoiding high-speed highways, transporting in enclosed or partially enclosed vehicles, or covering the plants with burlap or other suitable material. Plants severely damaged by wind will be rejected.

F. Any plant with signs of insects, their eggs or larvae, or disease will be rejected and shall be removed from the project site.

G. Only the nursery stock intended for planting on a particular day shall be delivered and stored on the site during the day unless otherwise acceptable to the Owner. All plants shall be stored in one location as designated by the Owner, protected from wind and kept moist. The roots of all plants that cannot be planted immediately in soil shall be covered with mulch and other suitable material. No plants shall be taken from the temporary storage area for planting on the project until after the tree pits or holes for the plants in the section to be planted have been properly excavated and prepared ready to receive the trees and shrubs.

H. Trees moved by winch or crane shall be thoroughly protected from chain marks, girdling, or other bark slippage by means of burlap, wood battens or other acceptable method.

3.02 NONPLANT MATERIALS

A. Fertilizer shall be delivered to the site in original, unopened containers bearing manufacturer's guaranteed chemical analysis, name, trade name, trademark and conformance to state law. In lieu of containers and provided that it is to be applied at the time of delivery, fertilizer may be furnished in bulk, and a certificate indicating the above information shall accompany each delivery.

B. Pesticide and herbicide materials shall be delivered to the site in the original, unopened containers. Containers that do not have a legible label that identifies the Environmental Protection Agency registration number and the manufacturer's registered uses will be rejected.

C. Storage of materials shall be in the area designated for use by the Owner. All materials shall be kept in dry storage and away from contaminants.

3.03 PREPARATION BEFORE PLANTING

A. The Contractor shall verify that final grades have been established prior to beginning planting operations. All unsatisfactory grading shall be reported to the Owner, and the Contractor shall not proceed with the work until the unsatisfactory conditions have been corrected. When conditions detrimental to plant growth are encountered, such as rubble, fill or adverse drainage conditions, the Contractor shall notify the Owner for directions.

B. Should undesirable existing vegetation be present on the site at the time of installation, the Contractor shall prepare the site for planting by use of chemicals, when used as recommended by the manufacturer, and/or mechanical means acceptable to the Owner.

Care shall be exercised to avoid any misuse of chemicals that would create detrimental residual conditions. Care must also be used not to alter final grades that have been established or cause damage to previously established turf areas.

C. All planting bed areas shall be treated with a pre-emergent herbicide before planting operations.

D. The Landscape Contractor shall be responsible for conducting percolation tests throughout the site where new plantings will be placed. The percolation test locations shall be of sufficient number (minimum of twelve (12) tests per one (1) acre) to test dissimilar soils used on site, low areas, areas that may be isolated by sidewalks and buildings and areas that are observed during the construction process that hold water.

- 1. Percolation test shall consist of digging a 12" diameter hole with vertical sides to a depth of 12". Fill the hole with water and measure the rate of absorption based on inches per hour. An ideal percolation rate would be 1"-3" per hour.
2. If the percolation is less than 1" per hour, the soils should be amended or replaced to allow proper drainage. If the percolation is greater than 4" per hour, the soils should be amended with peat or other organic matter to retain moisture.

3.04 SITE PREPARATION

A. If so called for by the Owner, all plant locations and the areas of all planting beds shall be staked out on the ground, for acceptance by the Owner, before planting operations begin. The Contractor shall stake the location of the center of each tree and paint the outline of each shrub and groundcover bed. The stakes shall be oriented in a vertical manner so that they can be viewed and read from one direction. The Contractor shall give the Owner notice 24 hours prior to the completion of staking described herein.

B. The Contractor shall verify the location of underground utilities, and irrigation heads and valves, and provide markers or other suitable protection, where necessary, to prevent damage.

3.05 EXCAVATION OF PLANTING AREAS

A. No tree or shrub pit shall be dug or prepared until their location is acceptable to the Owner and percolation tests and soils analysis have been completed and approved. Reasonable care shall be exercised to have pits dug and soil prepared prior to moving plants to their respective locations for planting to ensure that they will not be unnecessarily exposed to drying elements or to physical damage.

B. Circular pits with vertical sides shall be excavated for all plants. The depth of all plant pits shall be enough to accommodate the ball or roots and the prepared soil in the bottom of the pit. Diameter of pits for trees shall be at least two (2) times the diameter of the ball.

C. Plant beds and pits shall be tested for proper percolation per 3.03. Conditions which are not suitable per 3.03 shall be brought to the attention of the Owner. A written proposal and cost estimate for correction of such conditions shall be submitted to the Owner for acceptance, before proceeding with the work.

D. All tree pits in curbed planting islands, tree wells, or in areas in which the soil has been compacted to an undesirable density, shall be excavated to a depth at least two feet greater than the measured depth 4 diameter of the ball. The minimum depth 4 diameter of an excavation shall be four feet. Soil backfill in areas of densely compacted soil must meet specification 2.01-C. It is the Contractor's responsibility to dispose of the unsuitable soil to an approved location.

E. In shrub and groundcover beds where soils have been compacted to a density that is detrimental to plant growth, the Contractor shall loosen soils to a depth of 18" minimum to allow root penetration beyond the planting pit.

F. If acceptable for use, existing topsoil in shrub and groundcover beds shall be treated with the specified soil amendments, at rates determined by soil tests. Amendments shall be incorporated into the soil to a depth of 12 inches. Where soil is not acceptable as determined by soil tests, the

soil in the entire area shall be removed to a depth of 8 inches and replaced with the specified planting soil.

3.06 PLANTING

A. All plants, except as otherwise specified, shall be centered in their pits, faced for best effect and set plumb for backfilling.

B. Burlap on B4B and W4B plants shall be removed from top one third of the ball. Burlap shall not be removed from under balls. If the ball is cracked or broken before or during planting process, the plant shall not be planted and shall be removed from the site. All synthetic strings, straps, and wire cages shall be removed from the top third of the root ball. Synthetic burlap shall be removed completely.

C. Plants shall be removed from cans by cutting two sides of a container with an acceptable can cutter. Sides shall not be cut with a spade. Sides of knockout cans shall not be cut. Plastic containers with slanted sides shall not require cutting. Plants shall be removed from the container carefully, without injury or damage to the plant and root system.

D. Bottom of plant boxes shall be removed before planting. Sides of the box shall be removed, without damage to the root ball, after positioning the plant and partially backfilling around it. The Contractor shall hand water containerized trees from the time of delivery until the time of final acceptance at a rate consistent with the nursery conditions from which the trees were obtained. Trees which go into shock due to insufficient water may be rejected.

E. Plants shall be set in the center of pits and shall be plumb and straight and at such a level that after settlement the root crown will be level with the surrounding grade.

F. Plant holes shall be backfilled with the specified planting mixture placed in layers around the roots or ball. Each layer shall be carefully tamped in place in a manner to avoid injury to the roots or ball or disturbing the position of the plant. When approximately two thirds of the plant hole has been backfilled, the hole shall be filled with water and the soil allowed to settle around the roots. Balled and burlapped plants shall have the burlap cut away or folded back from the top of the ball before applying the water. After the water has been absorbed, the plant hole shall be filled and tamped lightly to grade. Any subsequent settlement shall be brought to grade.

G. Immediately after each tree pit is backfilled, a shallow basin slightly larger than the pit shall be formed with a ridge of topsoil to facilitate watering. This soil saucer shall be formed in a circle and tamped around each tree so that the saucer will retain water. Where curbing occurs around plant pits, the saucer shall be omitted.

H. Should the site consist of well draining, sandy soils, the Contractor shall incorporate the use of water retentive additive Terra-Sorb AG for all shrubs, groundcovers, annuals, and trees at the manufacturers suggested rates.

3.07 FERTILIZING

A. Each tree and shrub shall be fertilized by placing the manufacturer's recommended amount around the base of the ball before backfilling.

3.08 STAKING, GUYING AND WRAPPING

A. Staking or guying and wrapping of trees shall be done immediately after they are planted. Each plant shall stand plumb after staking or guying has been completed. It shall be the Contractor's responsibility to ensure that all trees are plumb and secure after planting. Staking of trees of a 10 foot height or less shall be at the discretion of the Owner. All other trees shall be staked.

B. Immediately after planting, trees shall be staked and guyed for support with ArborBrace Tree Guying System per manufacturer's instructions.

- 1. ATG-R for up to 4" caliper trees: (3) Polypropylene guylines 3/4"x12'x800 lb test, olive drab, UV resistant; (3) nickel plated spring cam-lock tensioning clips; (3) arrowhead nylon anchors (4"x3-3/4").
2. ATG-J for up to 6" caliper trees: (3) Polypropylene guylines 1"x12'x1000 lb test, olive drab, UV resistant; (3) 1-1/4" nickel plated, non-rusting, spring cam-lock tensioning clips (1500 lb break strength); (3) arrowhead nylon anchors (5-1/2"x4-1/2").
3. Care shall be taken when driving anchors to avoid damaging the tree roots.

C. If planted while void of foliage, the trunks of all deciduous trees shall be wrapped spirally from bottom to top, and shall be securely tied with cord at top and bottom and at 2 foot intervals along the trunk. The wrapping shall overlap and entirely cover the trunk from the ground to the height of the second branches and shall be neat and snug. Overlap of wrapping material shall be approximately 2 inches. Trees shall be inspected for injury to trunks, evidence of insect infestation and improper pruning before wrapping.

3.09 MULCHING

A. Immediately after planting operations are completed, all tree and shrub saucers, and shrub and groundcover beds shall be covered with a min. 3 inch layer of pine bark mini nuggets, unless an alternate mulch is specified on the plans. Limits of the mulch shall be as indicated on the drawings.

3.10 PRUNING

A. Each tree and shrub shall be pruned in accordance with standard horticultural practice to preserve the natural character of the plant and in the manner fitting its use in the landscape design. Pruning shall be done with clean, sharp tools and as indicated on the drawings.

B. Approximately one third of the growth of large deciduous trees (those with 2 inch caliper or larger) shall be pruned by removal of superfluous branches. Main leaders of trees shall not be cut back. Branches shall be thinned out and not merely cut back. Long side branches may be shortened. Shrubbery with extremely heavy tops shall have one fourth to one third of the weaker growth removed by thinning.

3.11 CLEANUP

A. During the course of planting, excess and waste materials shall be continuously and promptly removed daily, lawns kept clear, and all reasonable precautions taken to avoid damage to existing structures, plants and grass. After completion of the work, the entire site shall be cleared of excess soils, waste material, debris and all objects that may hinder maintenance and affect the visual appearance of the site.

The Contractor shall clean all roads and walks of dirt film and soil clods. The Contractor shall also pressure clean and broom sweep all asphalt pavement prior to the final lift of asphalt to be laid.

3.12 DISTURBED AREAS

A. All areas outside of the limits of work that are disturbed by the Contractor's construction activities shall be repaired and replanted to its original condition.

3.13 GUARANTEED PROVING PERIOD

A. There shall be a guarantee period of 1 year for trees and specimen material and 3 months for shrubs. This guarantee period shall start at the final acceptance date. Contractor shall replace any and all plant material that die during this guarantee proving period. Replacement of plants necessary during the guarantee period shall be the responsibility of the Contractor, except for possible replacements of plants resulting from removal, vandalism, acts of neglect on the part of others, or acts of God. All replacement material shall have the same guarantee time (1 year from installation of replacement for trees and specimen material and 3 months for shrubs).

B. Planting maintenance shall include all necessary watering, cultivation, weeding, pruning and spraying; wrapping and mulching; straightening of plants which lean or sag and which develop more than a normal amount of settlement; such adjustments to include excavating around and leveling or raising the ball when so directed; and all other incidental work necessary for proper

maintenance as directed by the Owner until substantial completion and written release.

C. Transplanted material (if applicable) shall not be guaranteed, however, good horticultural practices should be used before, during and after the material is transplanted. Good horticultural practices should include but not be limited to, all necessary watering, pruning and spraying; wrapping and mulching; fertilizing; moving; maintaining the same orientation and grade level from the original location; and all other incidental work necessary for proper transplanting.

3.14 FINAL INSPECTION AND ACCEPTANCE

A. The Contractor shall notify the Owner in writing when the work has been completed in accordance with this Contract and request an inspection. The Owner will make the inspection of the work and report findings as to acceptability and completeness. Any work remaining to be done shall be subject to re-inspection before final acceptance. The Contractor will be notified in writing by the Owner of the final acceptance of the work.

3.15 CONTRACTOR'S RESPONSIBILITY AFTER ACCEPTANCE

A. The Owner may elect to assume maintenance of all work, at the time of acceptance, or may elect to contract for maintenance by others for a specified period. Should maintenance after final acceptance be the responsibility of those other than the Contractor, the Contractor shall monitor all work for which he is responsible by guarantee, to assure that maintenance being performed will not jeopardize the condition and quality of the work and materials guaranteed by the Contractor. Any inadequate or damaging maintenance practices shall be reported immediately in writing to the Owner so that appropriate measures may be taken to correct the condition. Failure to so notify the Owner will invalidate any later claim of negligence or malpractice in maintenance.

3.16 ACCEPTANCE AND REPLACEMENT OF PLANT MATERIAL

A. At the expiration of the proving period, an inspection of the plantings will be made by the Owner. Only those plants that are alive and normally healthy will be accepted. Unaccepted material shall be removed and replaced by the Contractor at his own expense, during the next planting season. Material and method of replacement planting shall be the same as specified for the original planting unless otherwise directed. The Contractor shall continue to make replacements until a plant shows vigorous and healthy growth for a period of 1 year from the date of acceptance by the Owner. All such replacements will be inspected for acceptance at the end of the proving period by the Owner.

END OF SECTION 32 93 00



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Std



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Project

CYRILS DRIVE / NARCOOSSEE ROAD TO ABSHER ROAD - ROAD WIDENING

OSCEOLA COUNTY, FL

LANDSCAPE SPECIFICATIONS

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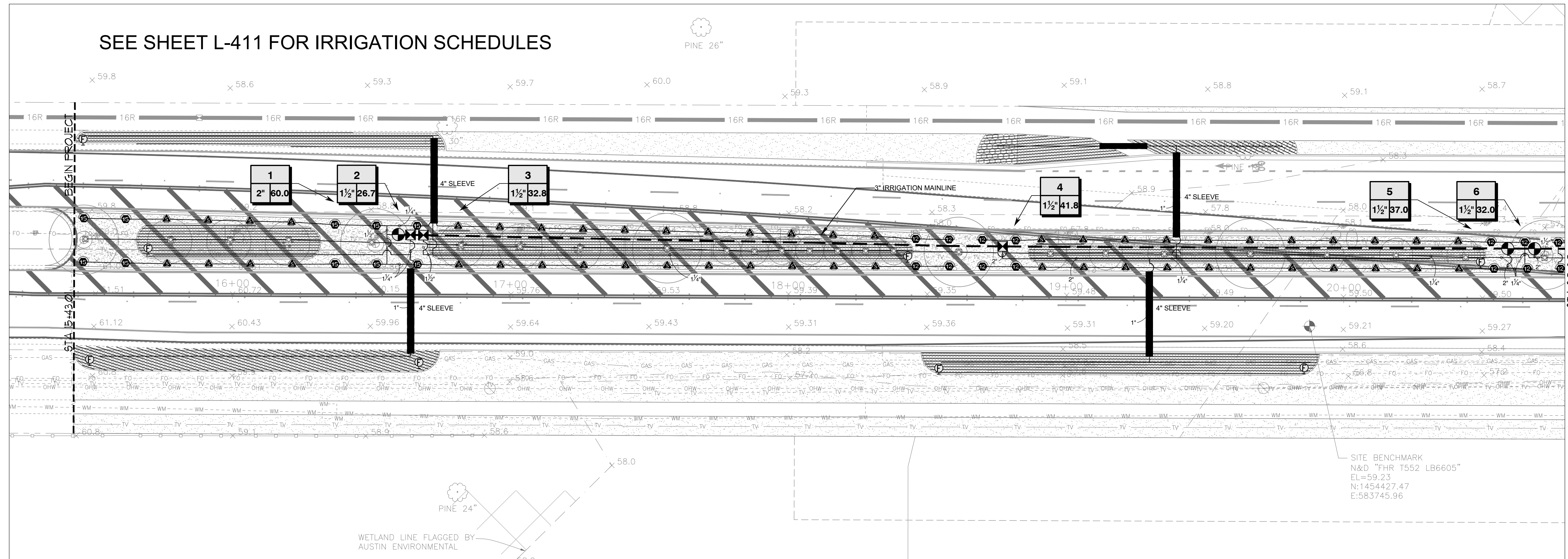
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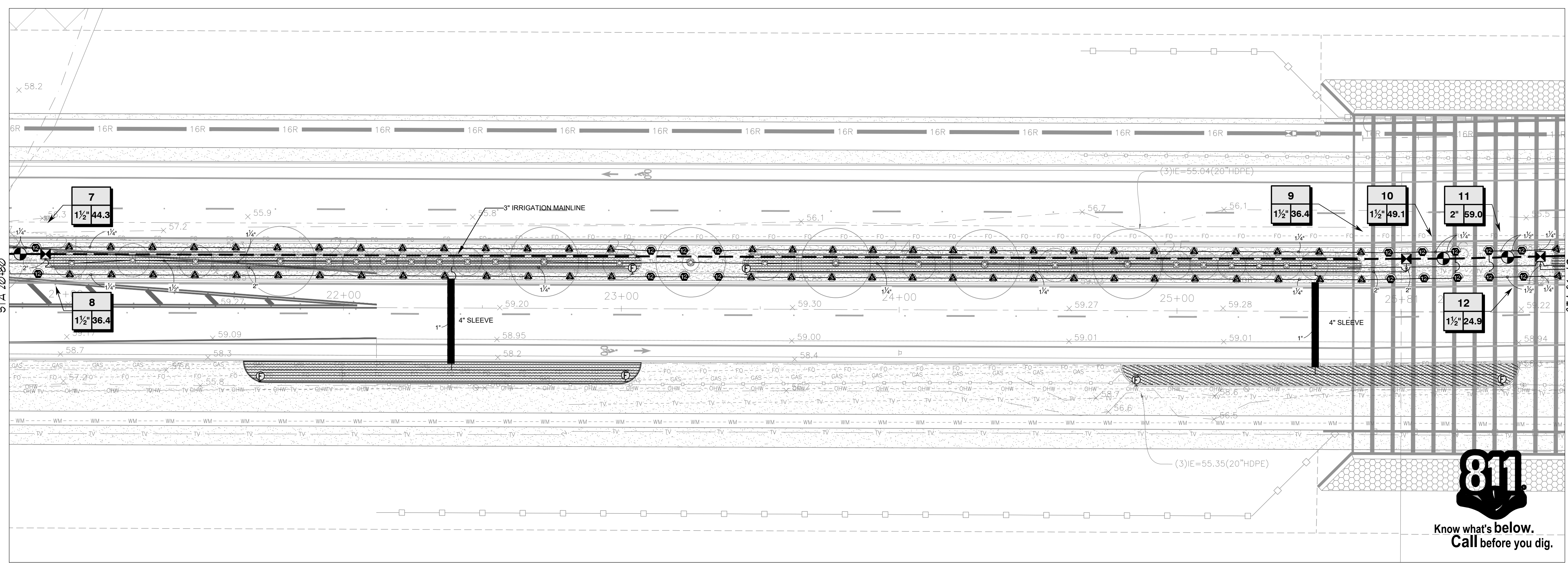
SEE SHEET L-411 FOR IRRIGATION SCHEDULES



**FOSTER
CONANT
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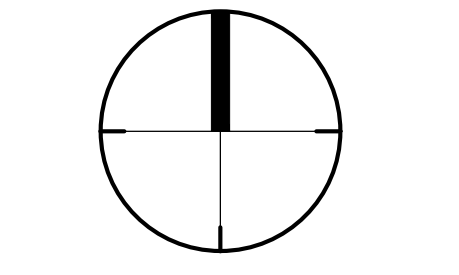
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CYRILS DRIVE /
NARCOOSSEE ROAD
TO ABSHER ROAD -
ROAD WIDENING
OSCEOLA COUNTY, FL

IRRIGATION PLAN

Date: 04/18/2022
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Call before you dig.

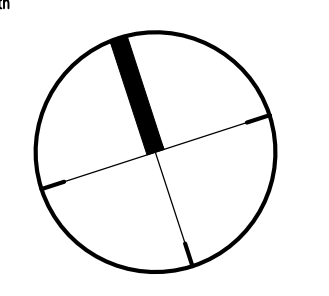
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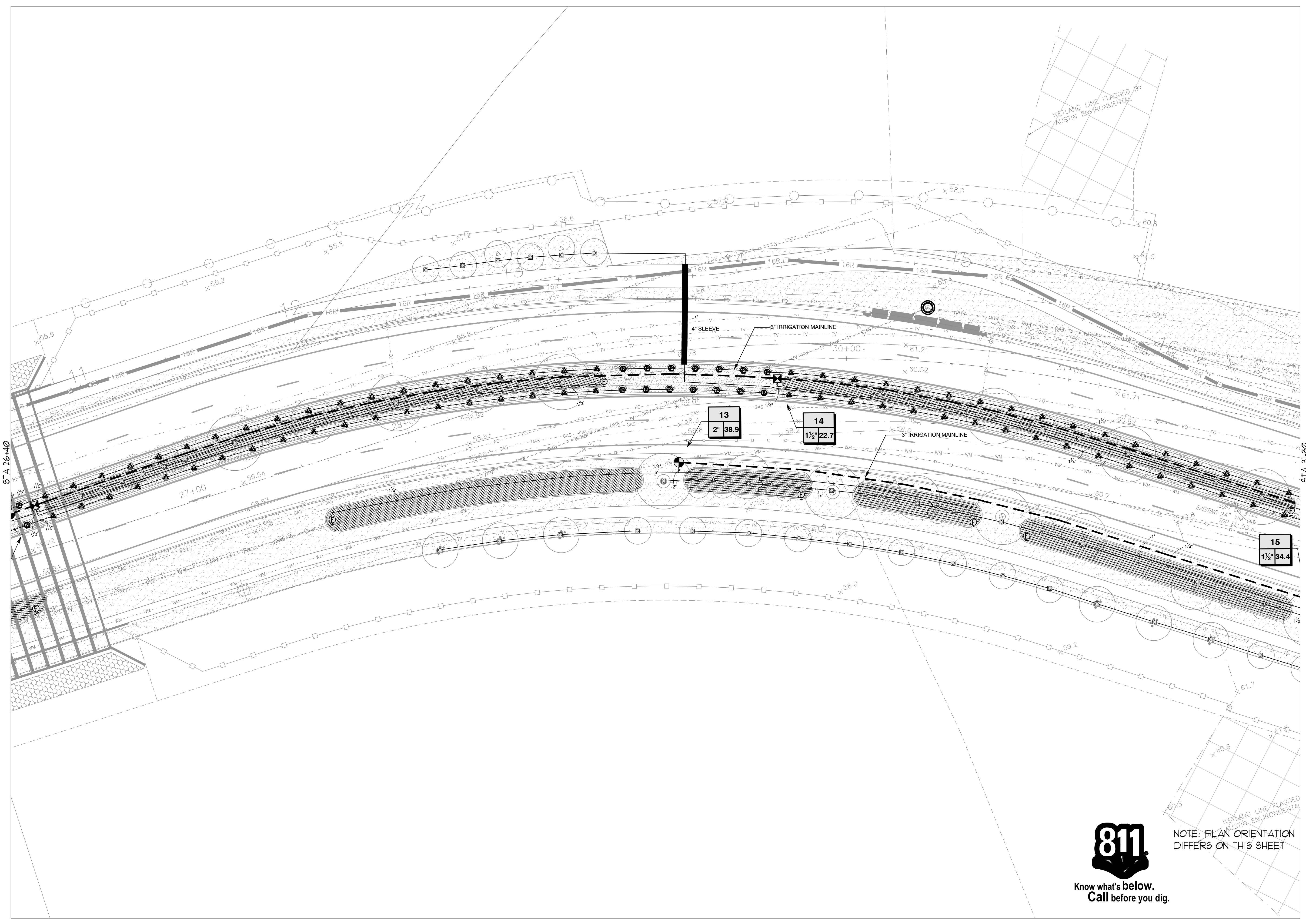
Project
**CYRILS DRIVE /
NARCOOSSEE ROAD
TO ABSHER ROAD -
ROAD WIDENING**
OSCEOLA COUNTY, FL

IRRIGATION PLAN

Date: 04/18/2022
Scale: 1" = 20'-0"
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File Name: 6BCYL-400.DWG
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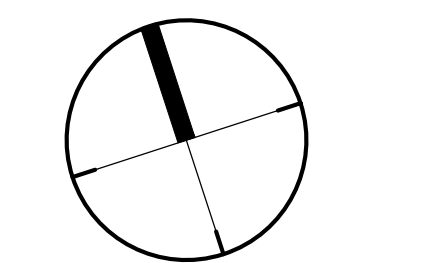
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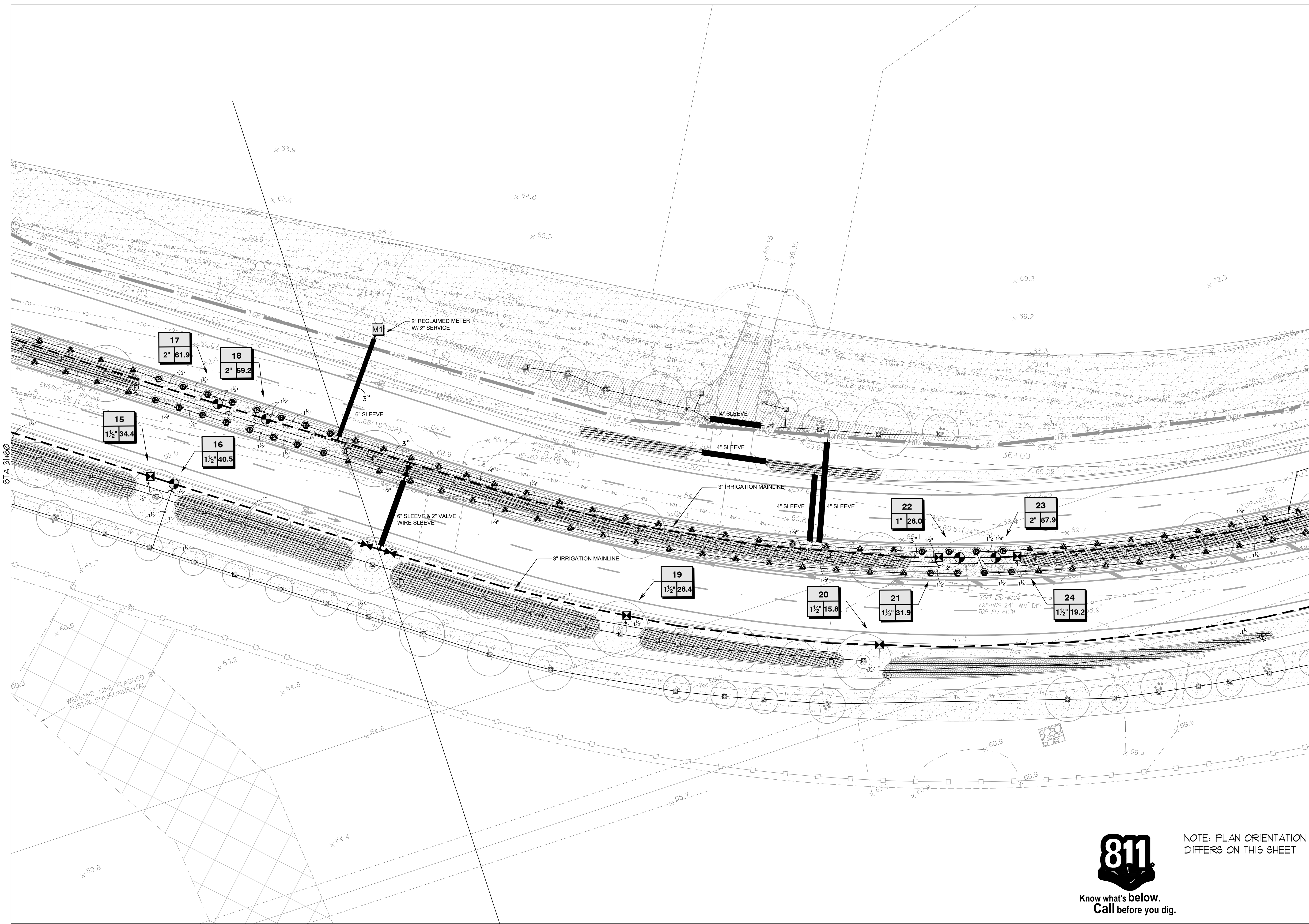
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**CYRILS DRIVE /
NARCOOSSEE ROAD
TO ABSHER ROAD -
ROAD WIDENING**
OSCEOLA COUNTY, FL

IRRIGATION
PLAN

Date: 04/18/2022
Scale: 1" = 20'-0"
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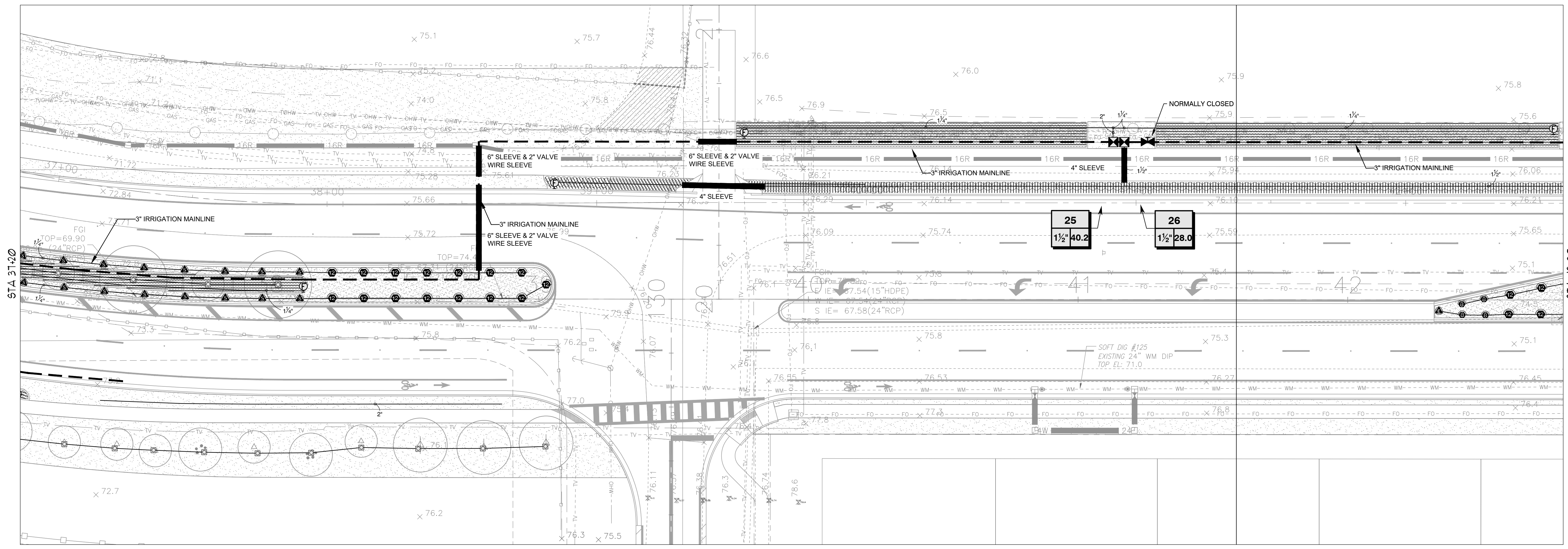


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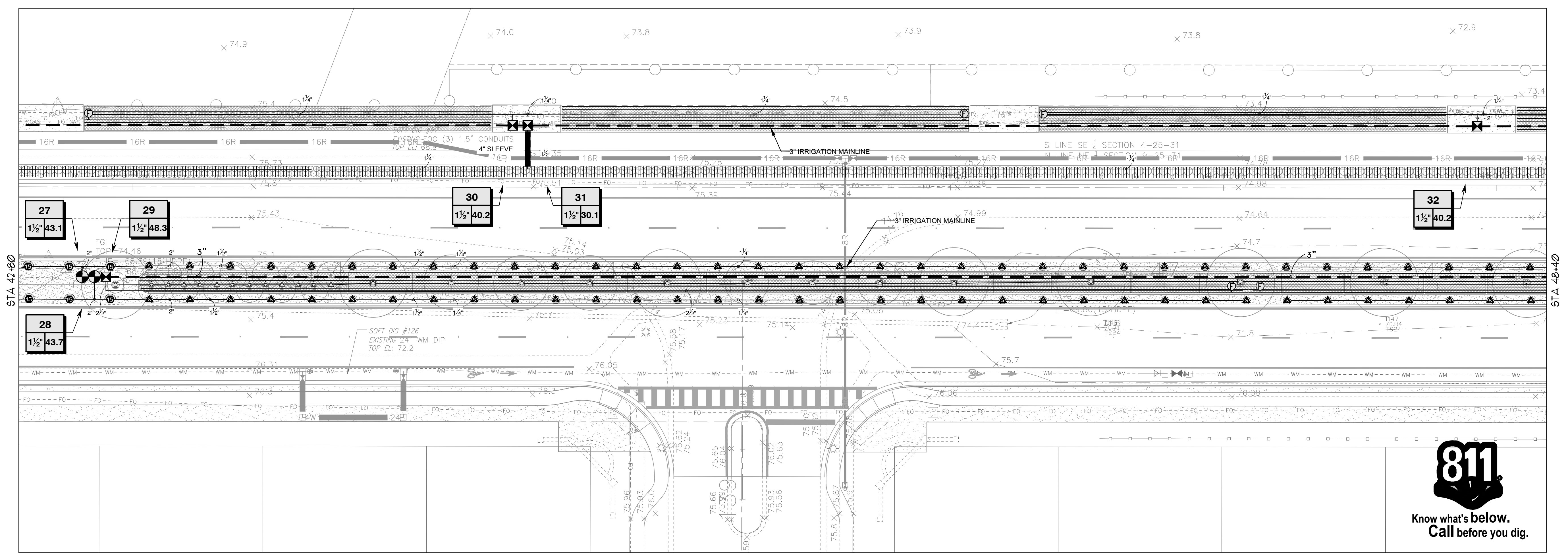
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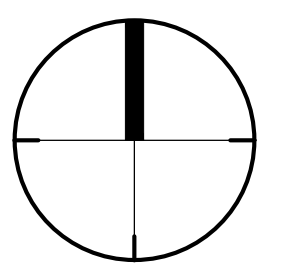
CYRILS DRIVE /
NARCOOSSEE ROAD
TO ABSHER ROAD -
ROAD WIDENING
OSCEOLA COUNTY, FL

IRRIGATION PLAN

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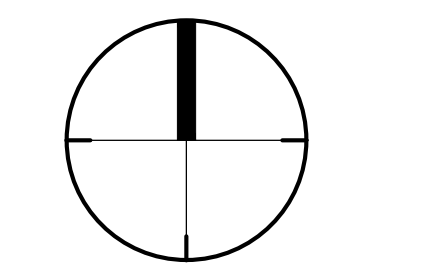
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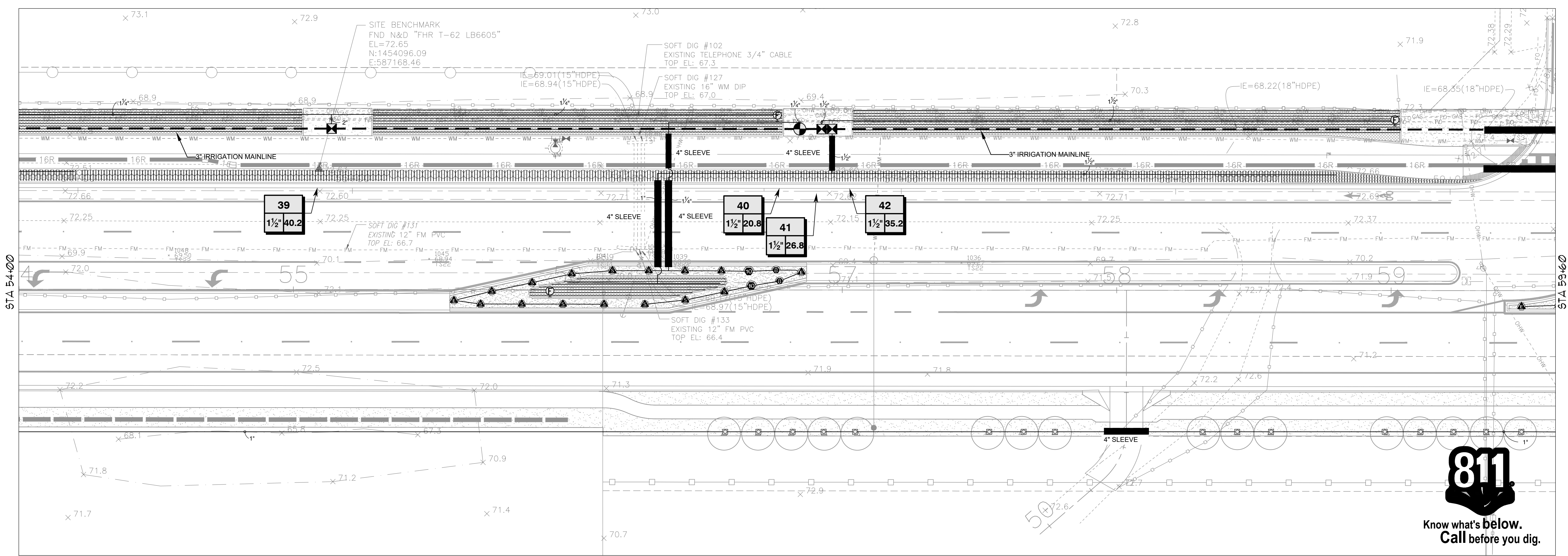
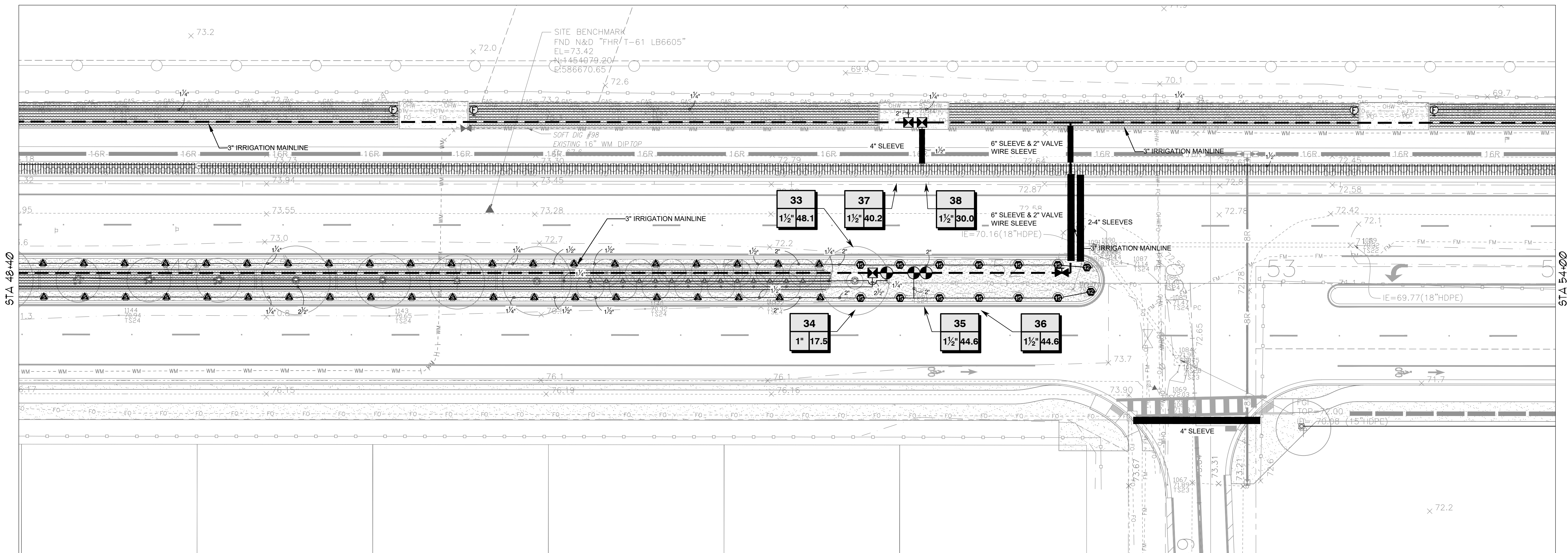
CYRILS DRIVE /
NARCOOSSEE ROAD
TO ABSHER ROAD -
ROAD WIDENING
OSCEOLA COUNTY, FL

IRRIGATION PLAN

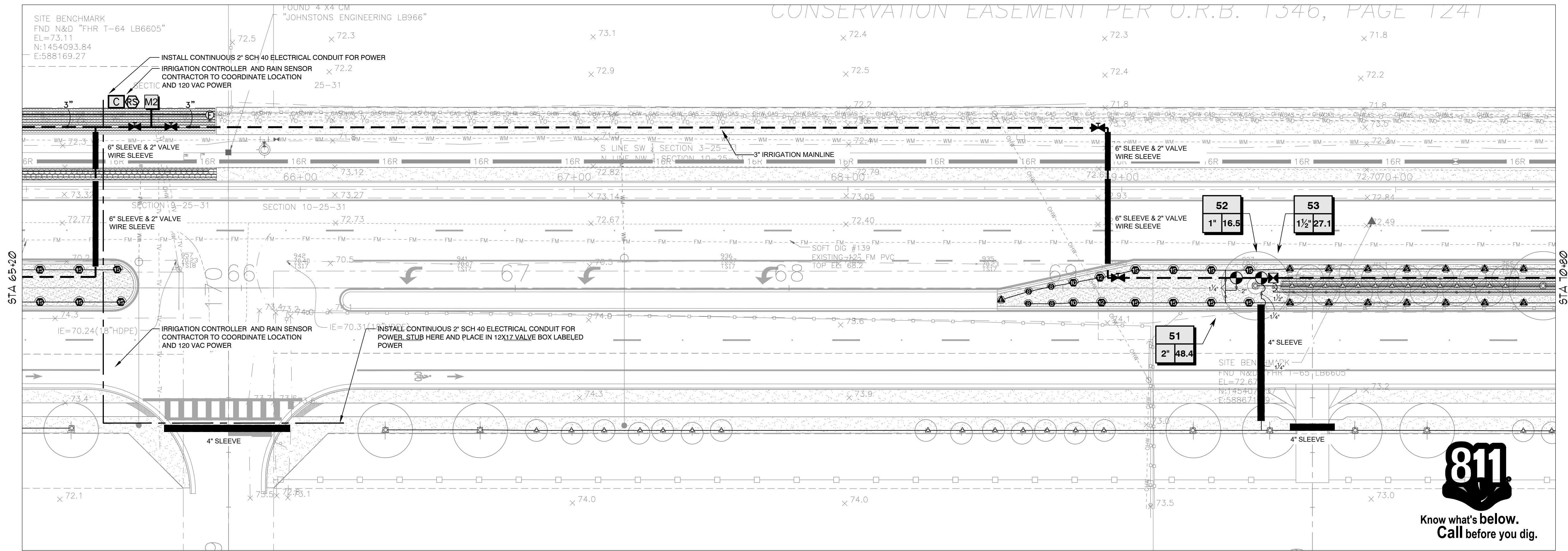
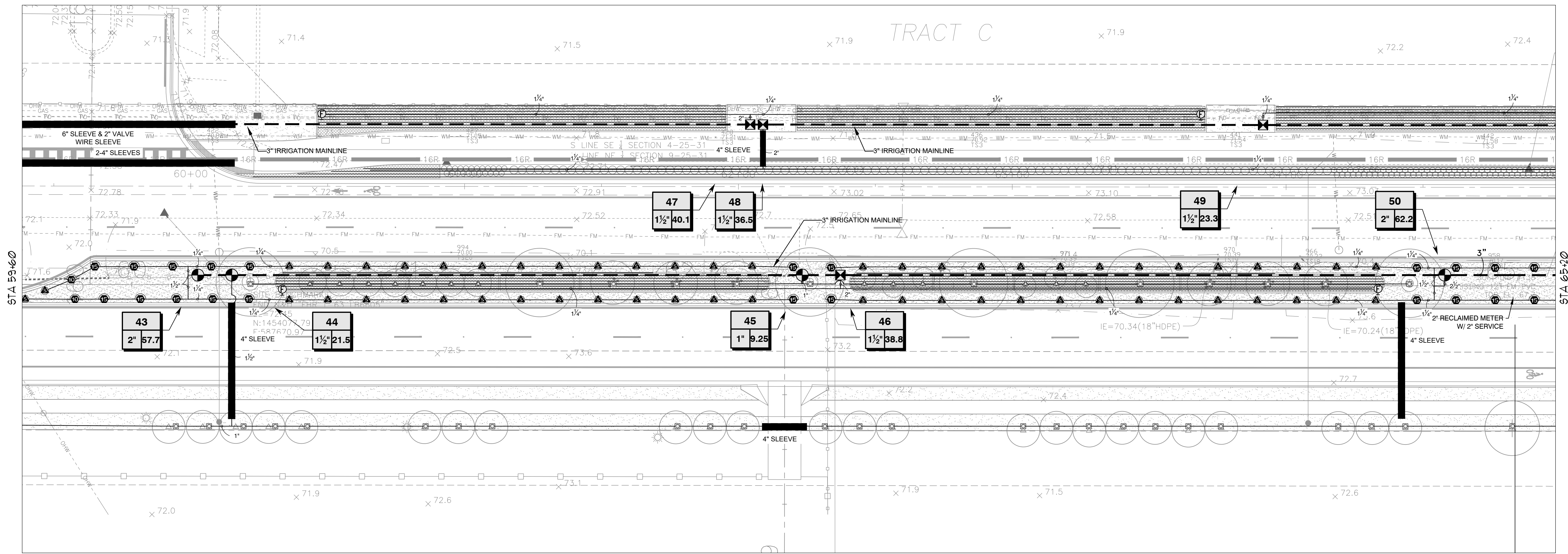
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L-404



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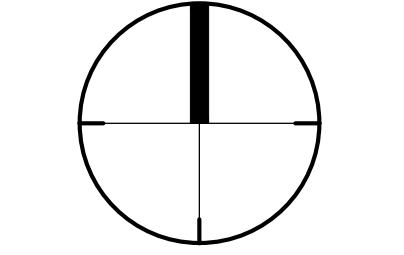


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IRRIGATION PLAN

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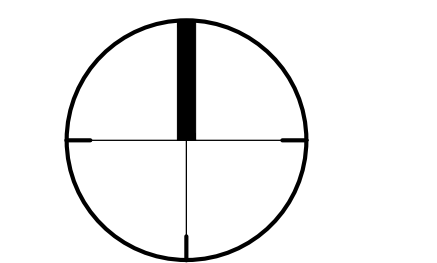
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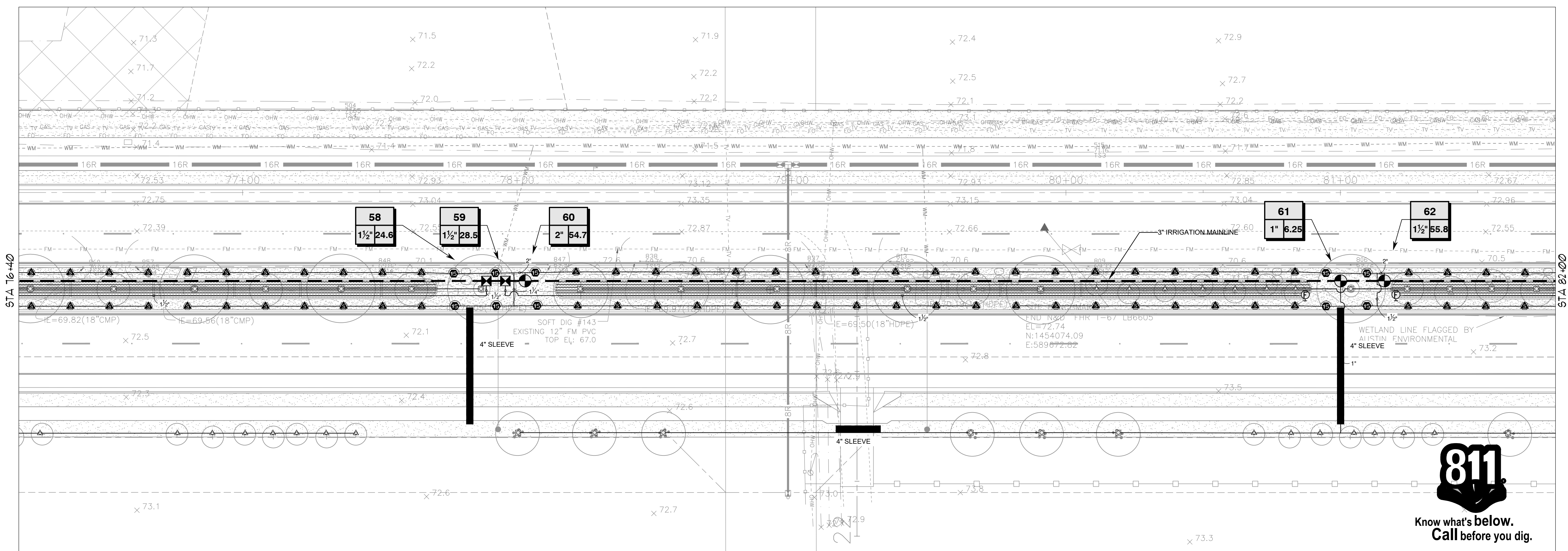
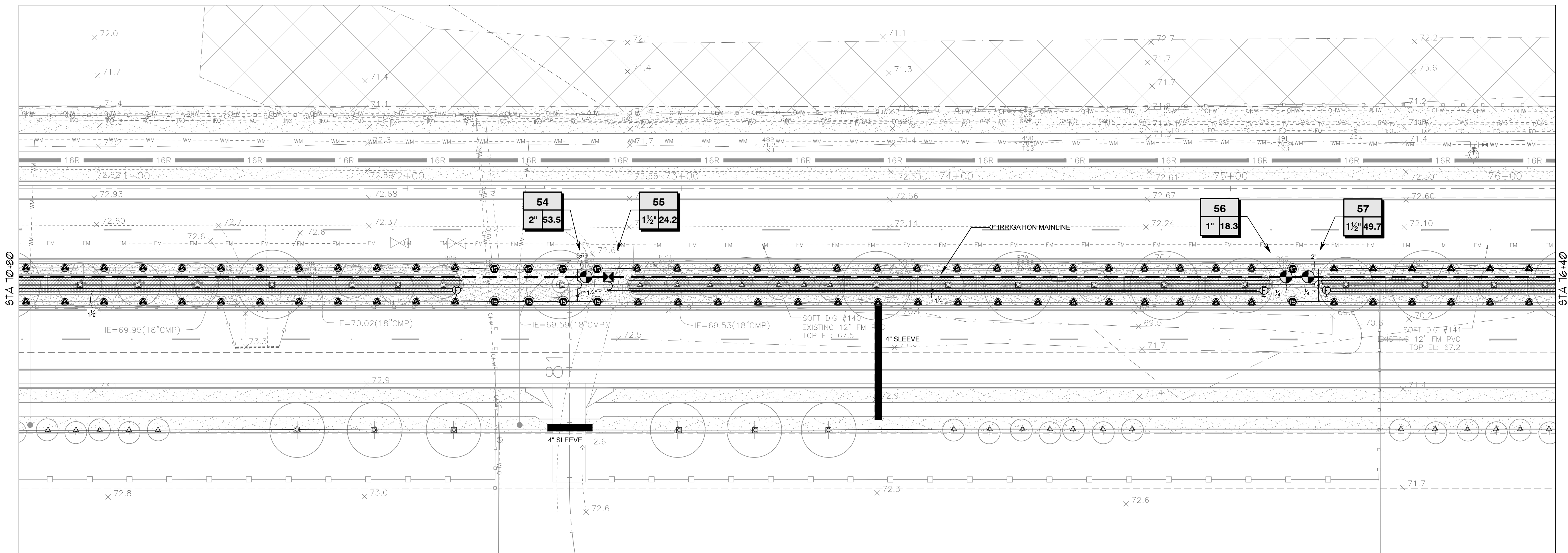
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OSCEOLA COUNTY, FL

IRRIGATION PLAN

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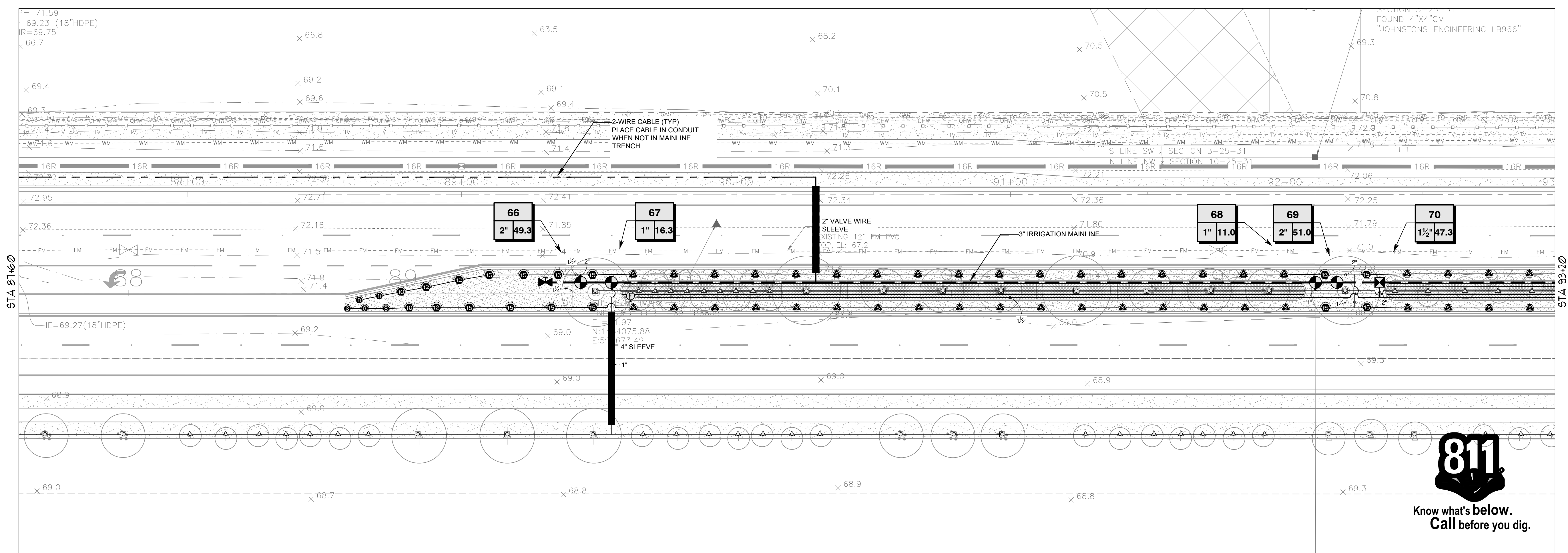
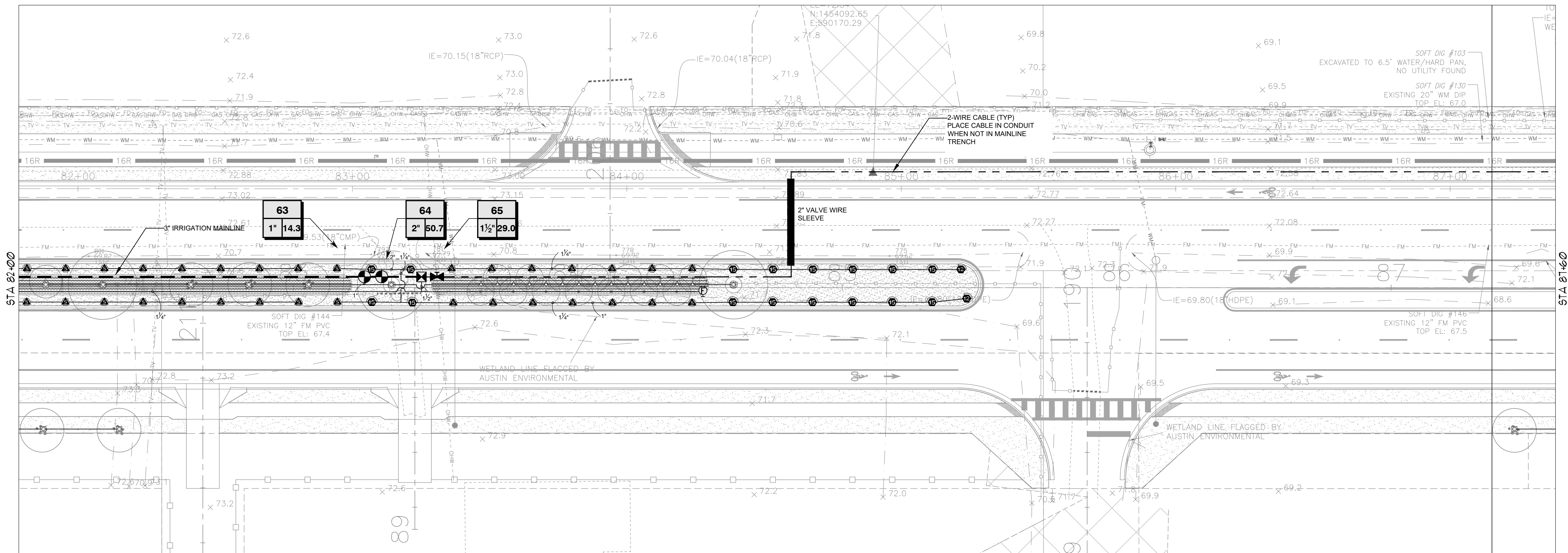
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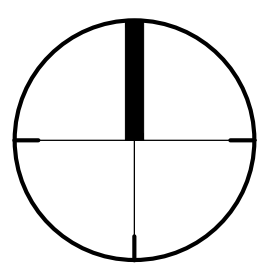


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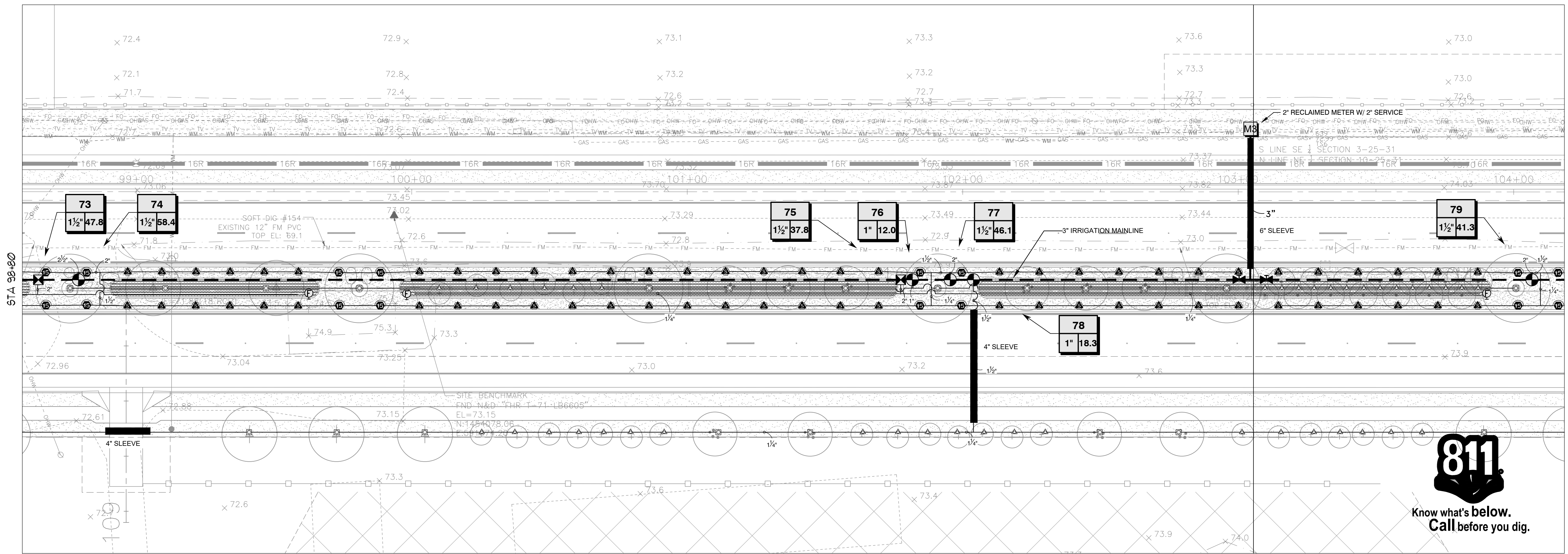
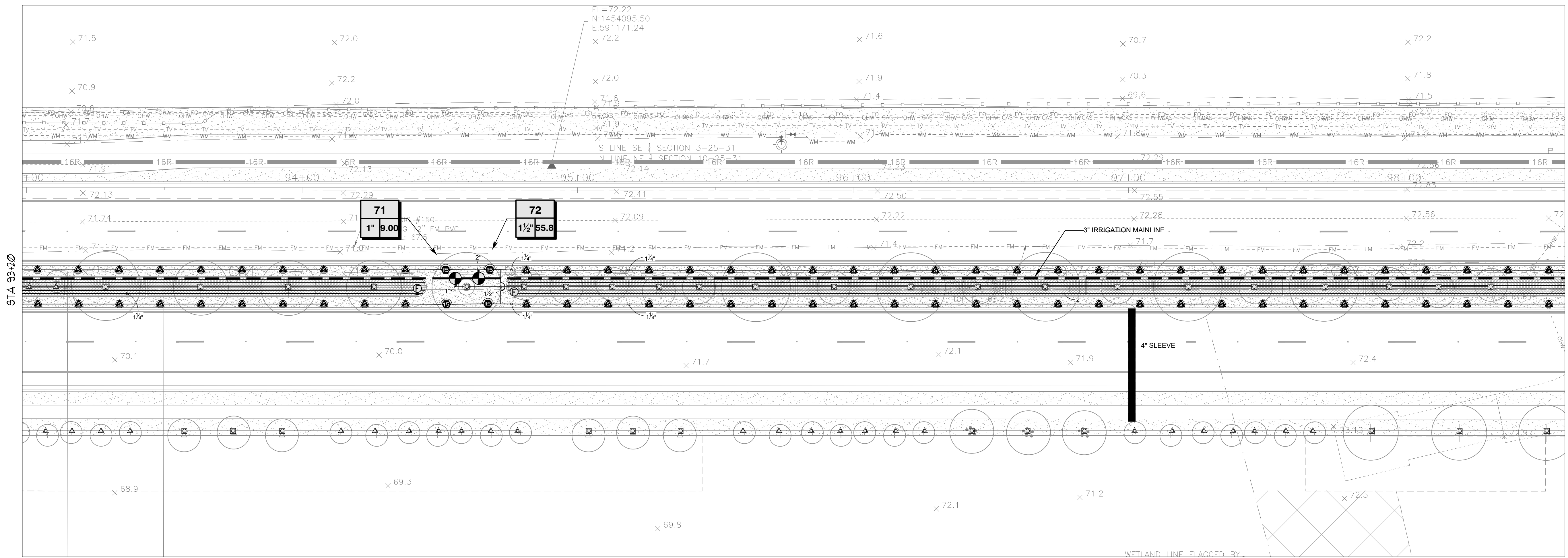
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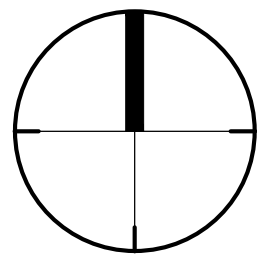


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IRRIGATION PLAN

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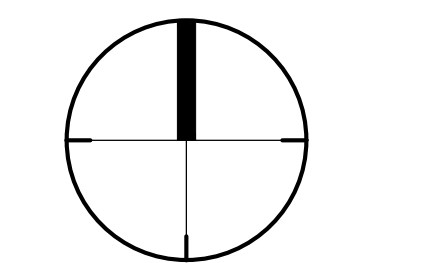
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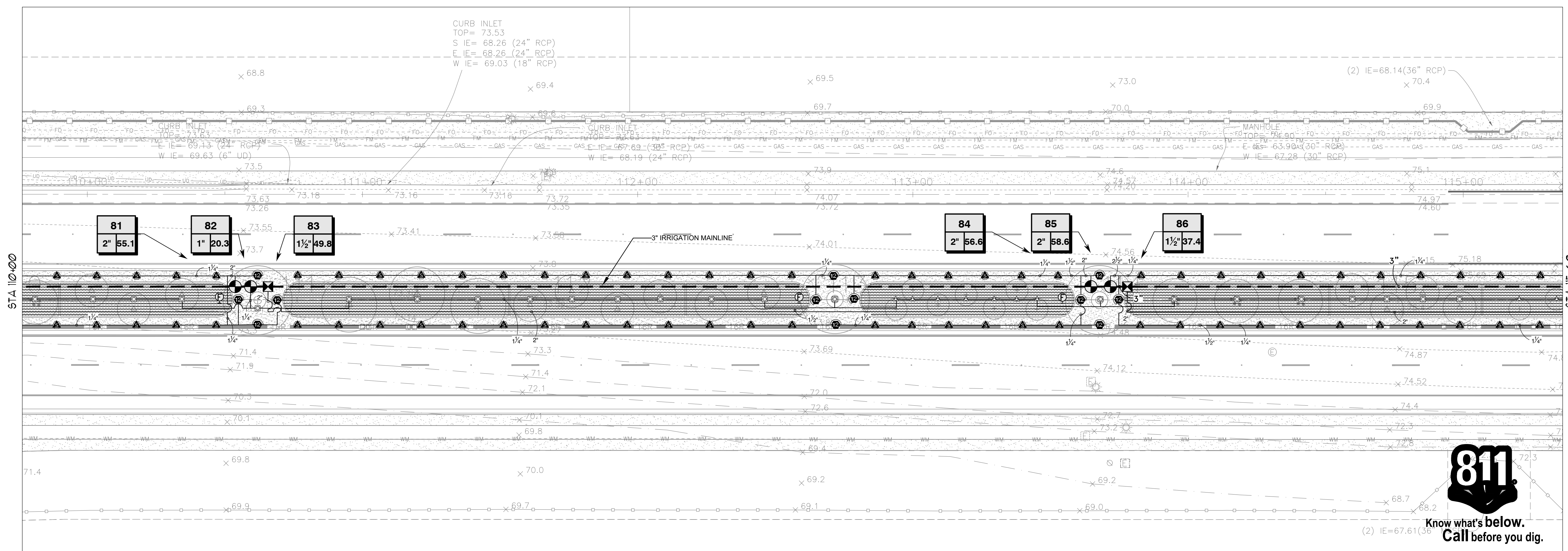
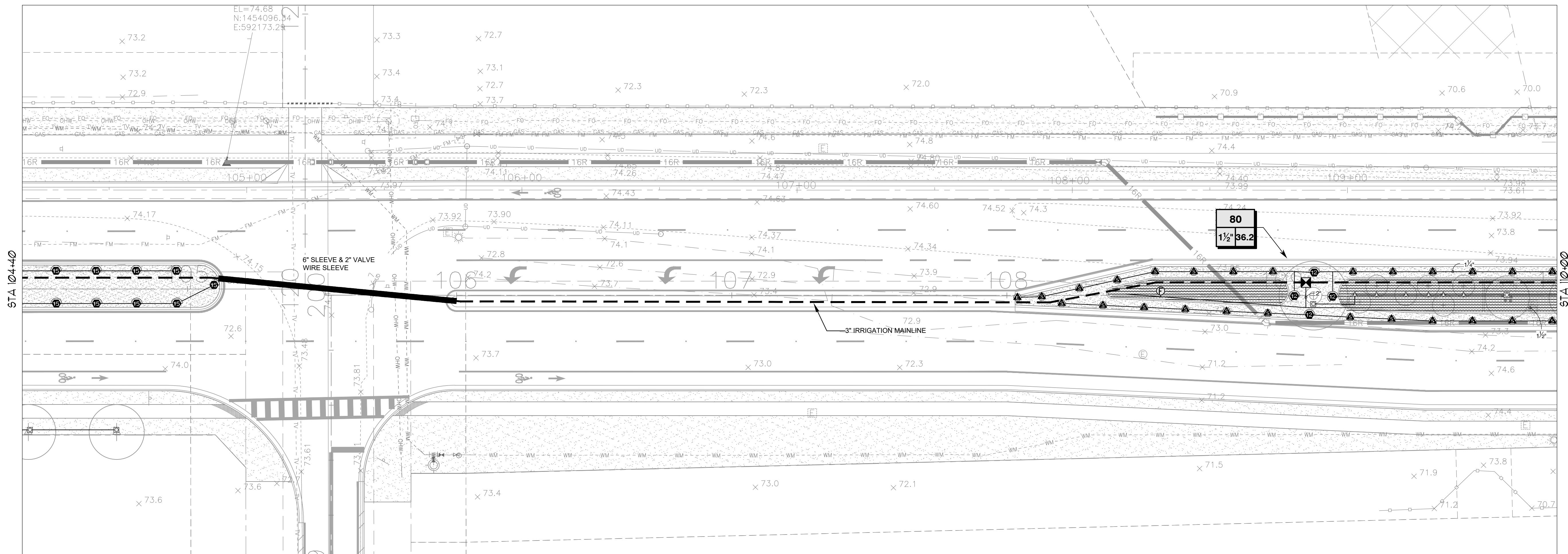
Project
**CYRILS DRIVE /
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ROAD WIDENING**
OSCEOLA COUNTY, FL

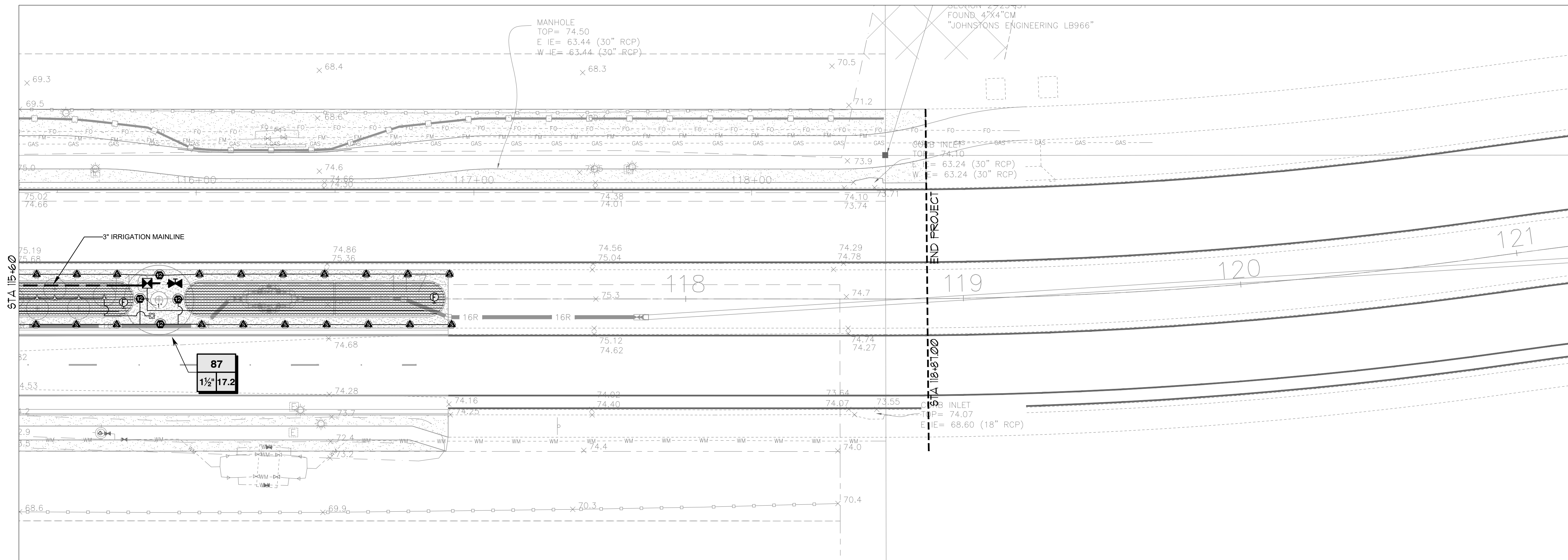
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PLAN

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Checked: MA
File Name: SECYL-400.DWG
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TEP LANDSCAPE / IRRIGATION CALCULATIONS

TOTAL LANDSCAPE AREA	433,292 SF	100.00%
TOTAL UNIRRIGATED SOD AREA	258,479 SF	59.65%
TOTAL IRRIGATED SOD AREA	73,190 SF	16.89%
TOTAL IRRIGATED SHRUB/GROUND COVER AREA	101,623 SF	23.45%
TOTAL LENGTH OF ROADWAY CENTERLINE	10,344 LF	

NOTE:

- Per Toho Efficiency Program Requirements: "Trees will provide shade to 30% of the total landscape area at maturity."
- All plant material to meet TEP guidelines.

CRITICAL ANALYSIS

Generated: 2022-04-17 22:40

P.O.C. NUMBER: 01
Water Source Information: 2" POC W/2" SERVICE

FLOW AVAILABLE
Water Meter Size: 2"
Flow Available 78.01 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 70 PSI
Elevation Change: 5.00 ft
Service Line Size: 2"
Length of Service Line: 20 ft
Pressure Available: 67 PSI

DESIGN ANALYSIS
Maximum Station Flow: 61.94 GPM
Flow Available at POC: 78.01 GPM
Residual Flow Available: 16.07 GPM

Pressure Req. at Critical Station: 43.1 PSI
Loss for Fittings: 0.27 PSI
Loss for Main Line: 2.72 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 0 PSI
Loss for Water Meter: 1.41 PSI
Critical Station Pressure at POC: 47.5 PSI
Pressure Available: 67 PSI
Residual Pressure Available: 19.5 PSI

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ROAD WIDENING
OSCEOLA COUNTY, FL

IRRIGATION PLAN

Date:

04/18/2022

Scale:

1" = 20'-0"

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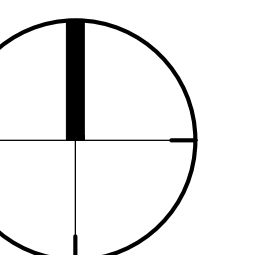
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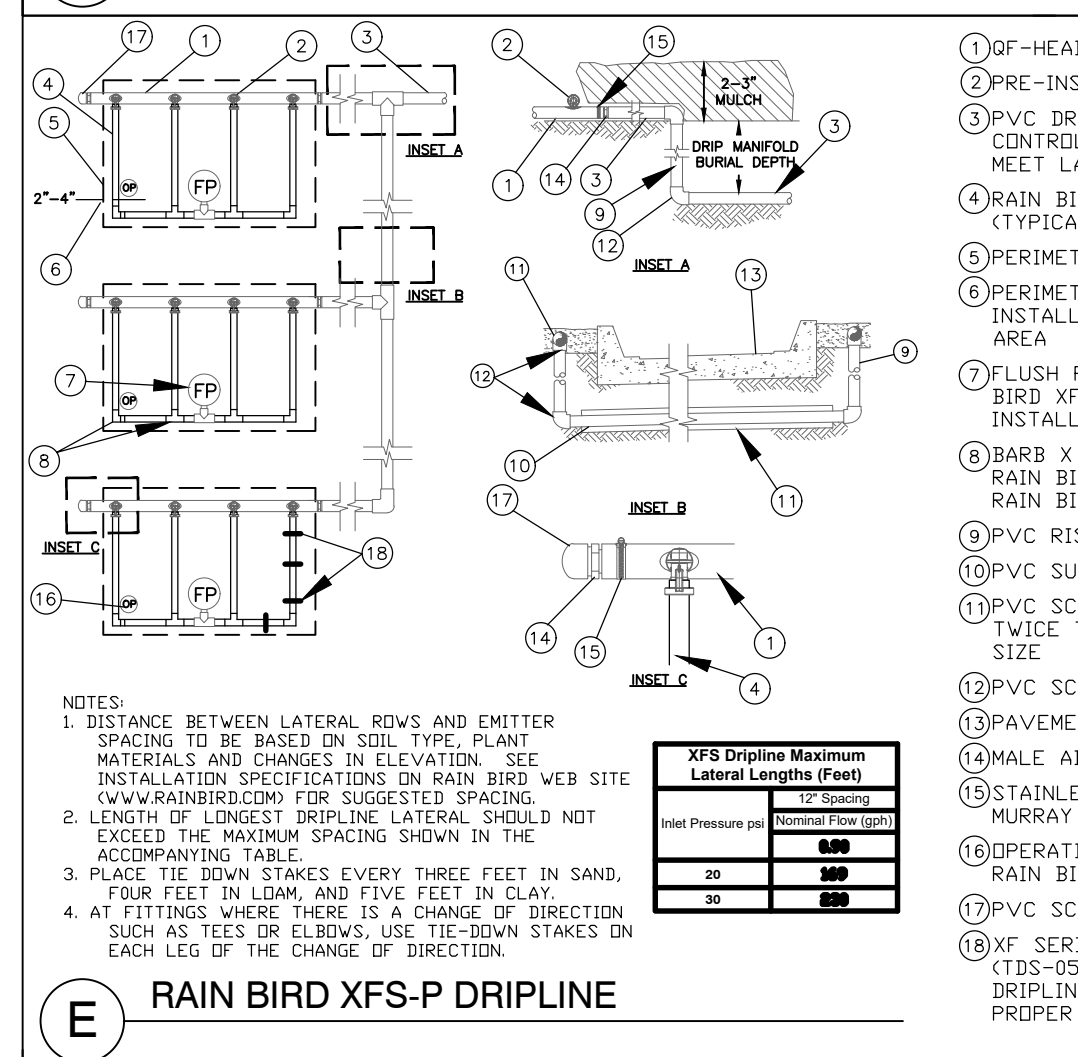
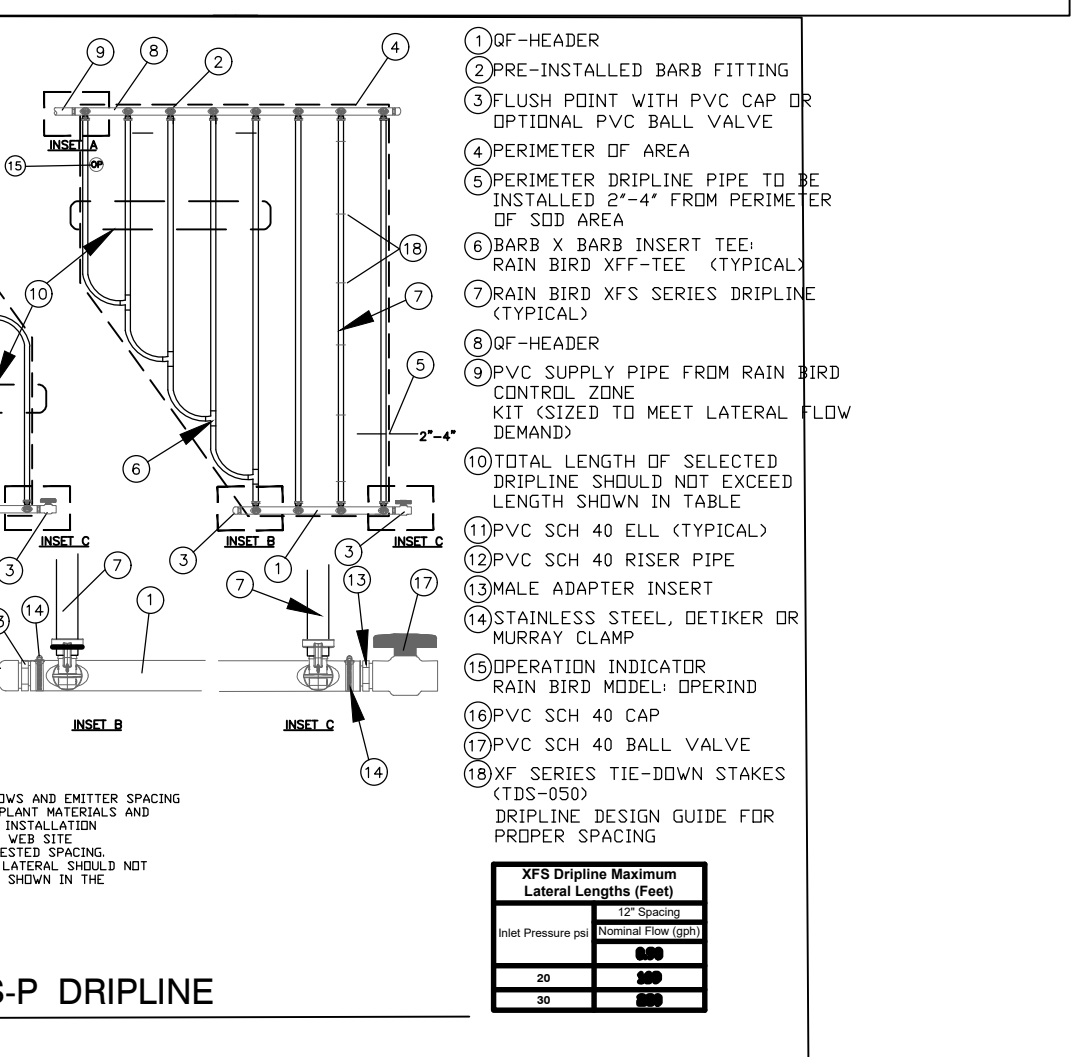
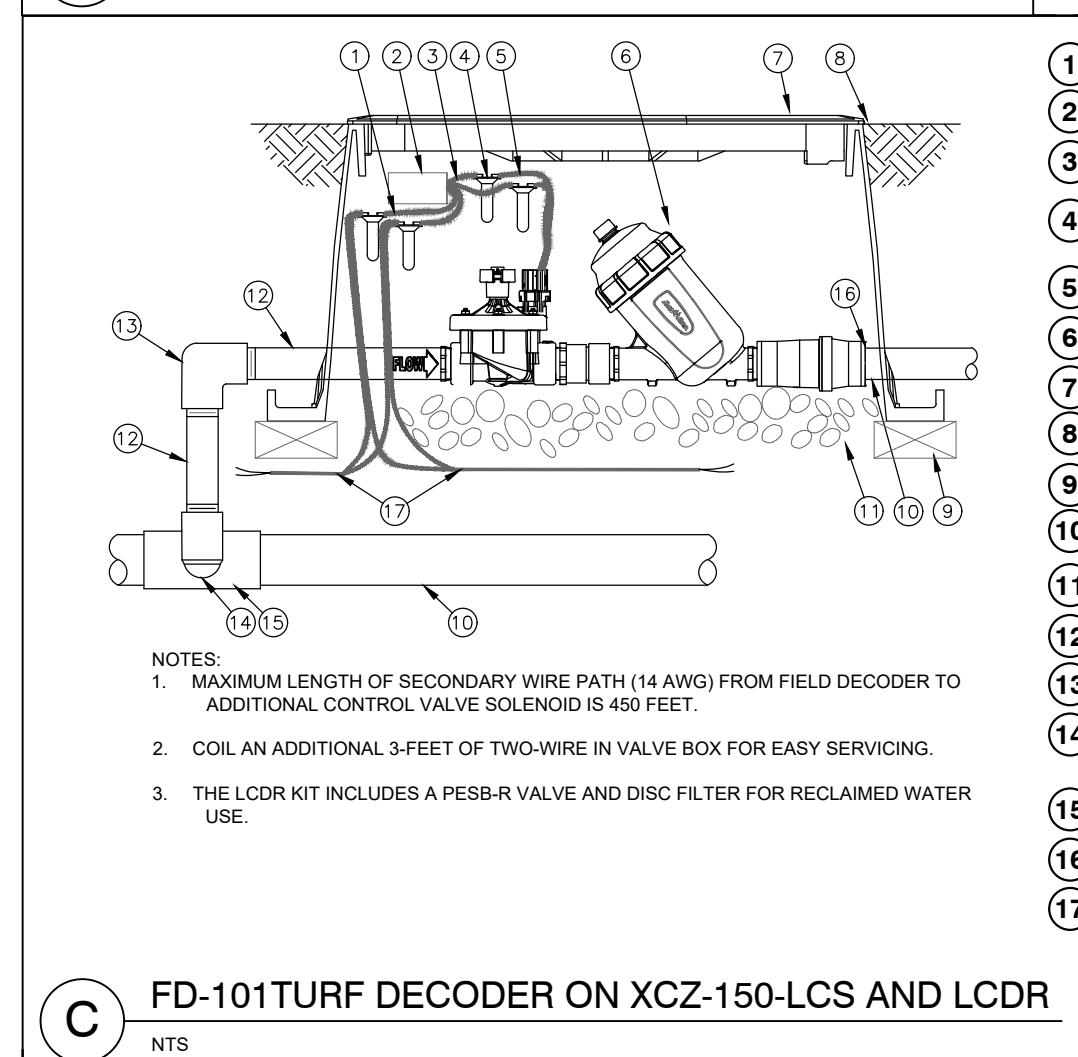
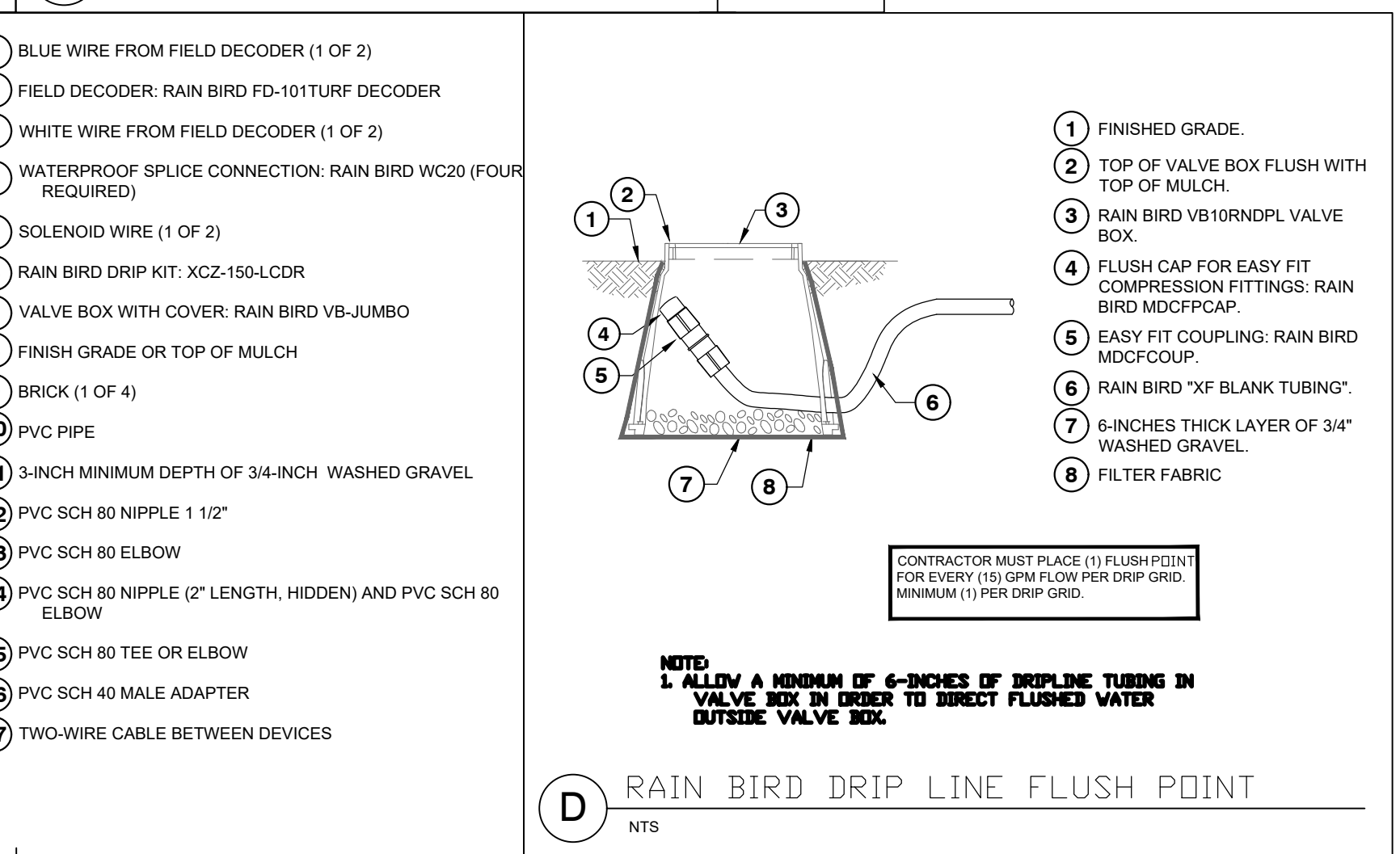
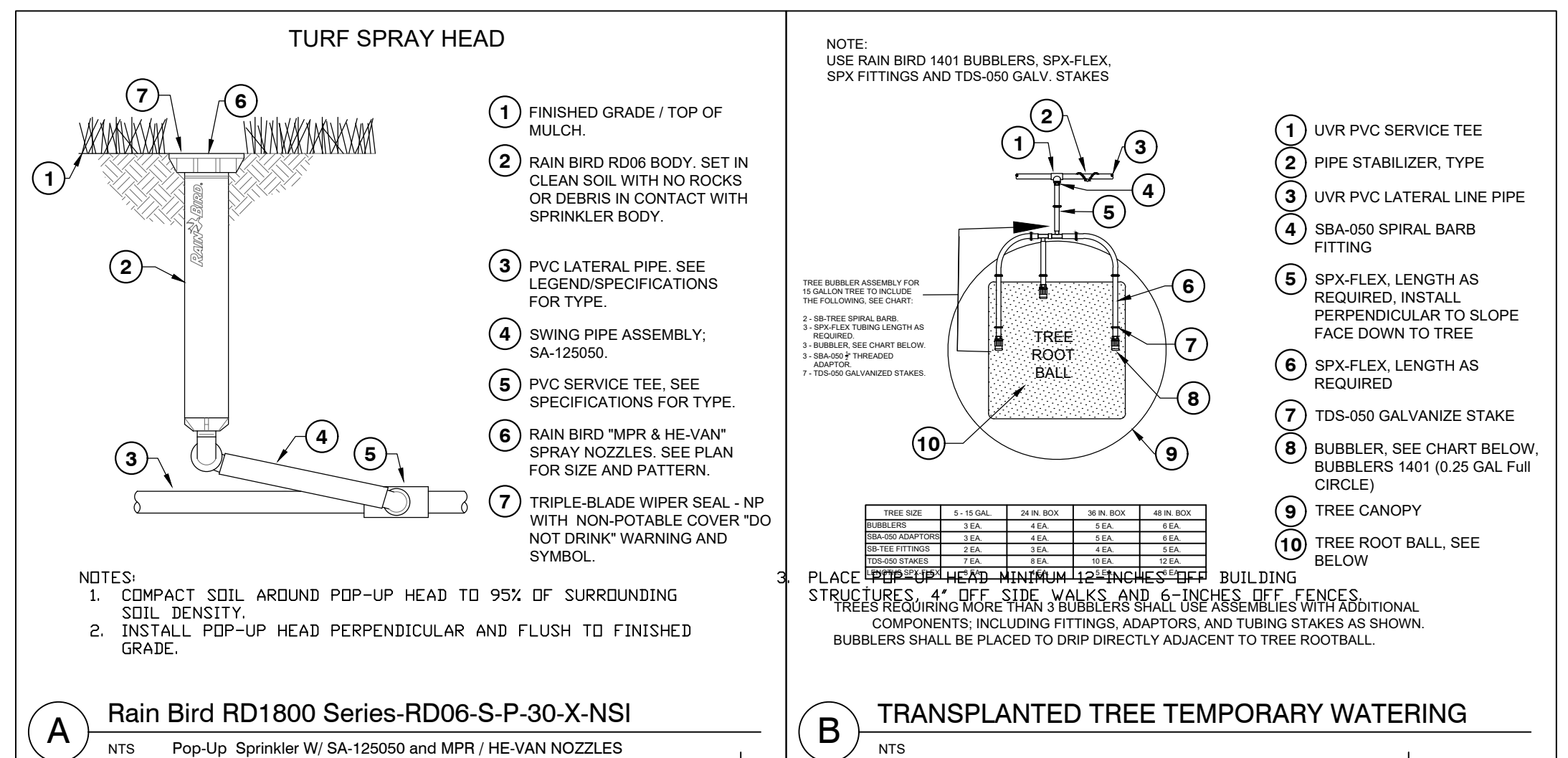
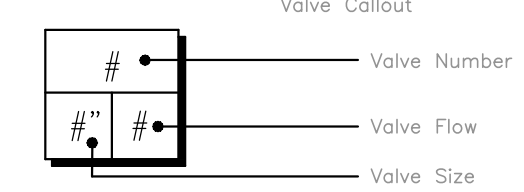
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI	DETAIL
	Rain Bird RD06-S-P-30-NP-NSI 15 Strip Series Turf Spray, 6.0" Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, Flow-Shield Technology, and Non-Potable Cover (purple cap). 1/2" NPT female threaded inlet.	911	30	A
	Rain Bird RD06-S-P-30-NP-NSI U8 Series Turf Spray, 6.0" Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, Flow-Shield Technology, and Non-Potable Cover (purple cap). 1/2" NPT female threaded inlet.	15	30	A
	Rain Bird RD06-S-P-30-NP-NSI U10 Series Turf Spray, 6.0" Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, Flow-Shield Technology, and Non-Potable Cover (purple cap). 1/2" NPT female threaded inlet.	8	30	A
	Rain Bird RD06-S-P-30-NP-NSI U12 Series Turf Spray, 6.0" Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, Flow-Shield Technology, and Non-Potable Cover (purple cap). 1/2" NPT female threaded inlet.	118	30	A
	Rain Bird RD06-S-P-30-NP-NSI U15 Series Turf Spray, 6.0" Pop-Up, with 30 psi in-stem pressure regulation, Seal-A-Matic check valve, Flow-Shield Technology, and Non-Potable Cover (purple cap). 1/2" NPT female threaded inlet.	141	30	A
	Rain Bird 1800-1400 Flood 1401 Transplanted Tree Temporary Watering - Fixed flow rate (0.25-2.0GPM), full circle bubbler, 1/2" FIPT.	709	30	B
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL	
	Rain Bird XCZ-150-LCDR High Flow Control Zone Kit, for Large Commercial Drip Zones. 1-1/2" PESB-R Scrubber Globe Valve with single 1-1/2" Pressure Regulating (40psi) Quick-Check Basket Filters. Flow range: 15-62gpm.	40	C	
	Rain Bird MDCFFCAP Dripline Flush Valve purple cap in compression fitting coupler. For non-potable water use.	65	D	
	Area to Receive Dripline Rain Bird XFS-09-12-NP XFS Non potable Sub-Surface Pressure Compensating Dripline w/Copper Shield Technology. 0.9 GPH emitters at 12" O.C. Laterals spaced at 12" apart, with emitters offset for triangular pattern. UV Resistant. Specify XF insert fittings.	91,830 l.f.	E	
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	DETAIL	
	Rain Bird PESBR-PPS-D 1", 1-1/2", and 2" Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, Purple Flow Control Handle, T-113 Gate Valve and Pressure Regulator Module.	47	F	
	Leemco LMV-22BB 2.5" x 2.5" LMV-BB Series Mainline Gate Valve. The Bell x Bell version provides in-line isolation where the location is not near a mainline ductile iron fitting.	11	G	
	Rain Bird ESP-LXD-LXMM with (1) ESPLXD-SM75 Flow sensing Two-Wire Decoder Commercial Controller. 125 Stations. UV-Resistant, Outdoor-Rated, in Strong Box	1	H	
	Rain Bird RSD-BEX Rain Sensor, with metal latching bracket, extension wire.	1	I	
	2" RECLAIMED METER W/2" SERVICE	1	I	
	2" RECLAIMED METER W/2" SERVICE	1	I	
	2" RECLAIMED METER W/2" SERVICE	1	I	
	Irrigation Lateral Line: PVC Class 200 SDR 21-NP	45,602 l.f.	J	
	Irrigation Mainline: PVC Schedule 40-NP	11,896 l.f.	K	
	2" Electrical Conduit	205.8 l.f.		
	Decoder wire in 1-1/2" Conduit			

Pipe Sleeve: PVC Schedule 40
 Pipe Sleeve: PVC Schedule 40 Sleeve sizes 1.5-inch thru 4-inch shall be Sch-40 pipe. Sleeves 6-inch and larger shall be Class 200 1,683 l.f. pipe. See details and specifications for additional installation instructions.



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IRRIGATION SCHEDULES

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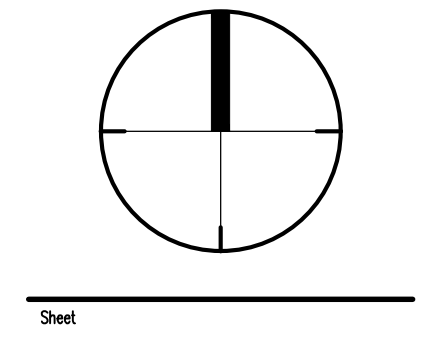
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