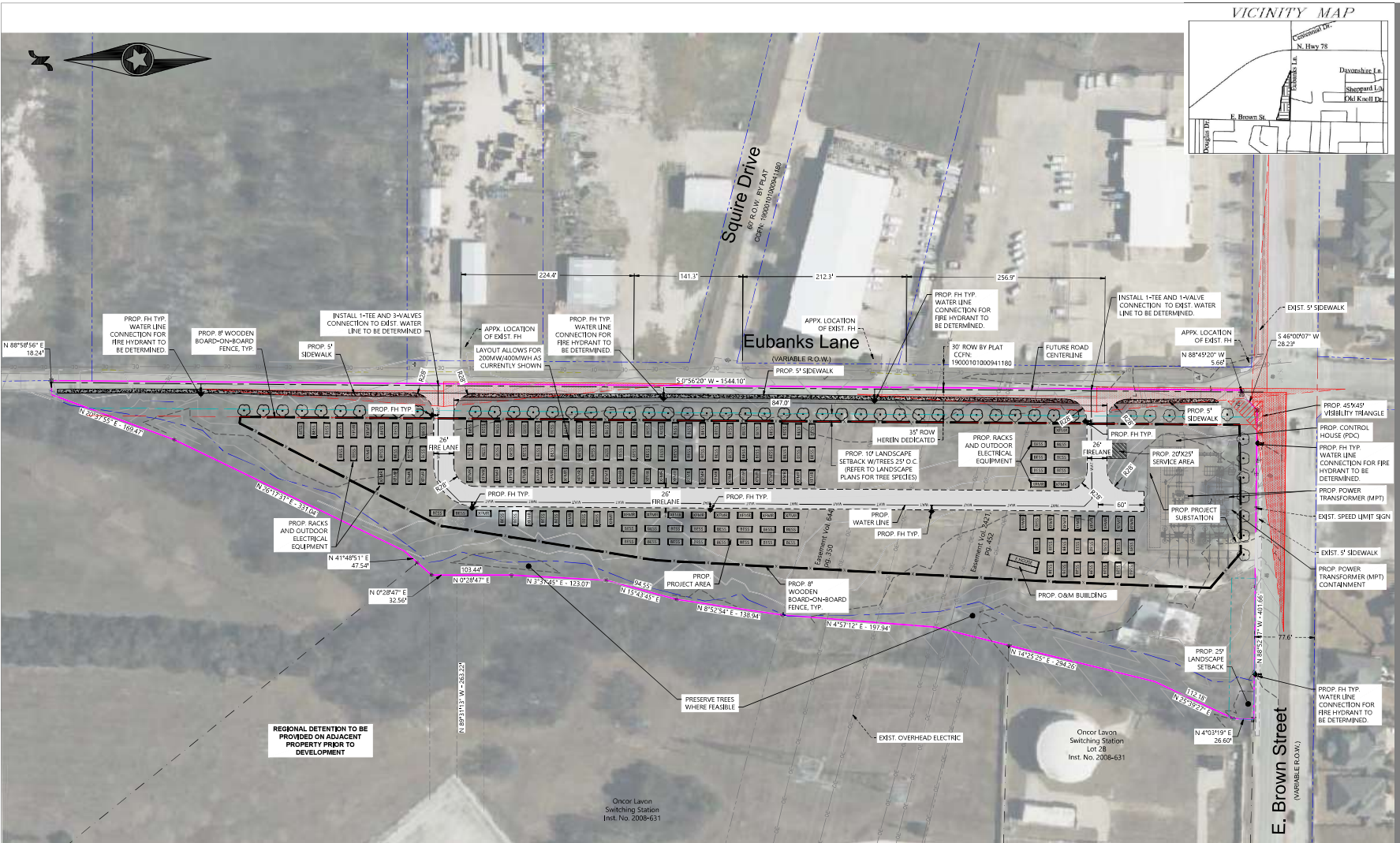


# PREVIOUS SITE PLAN APPROVED IN 2023



THE CONSULTANT'S RESPONSIBILITY IS TO PROVIDE PROFESSIONAL SERVICES IN ACCORDANCE WITH THE PROFESSIONAL ENGINEERING ACT AND THE PROFESSIONAL ENGINEERING BOARD'S REGULATIONS. THE CONSULTANT'S RESPONSIBILITY IS NOT TO PROVIDE DESIGN SERVICES FOR THE PROJECT. THE CONSULTANT'S RESPONSIBILITY IS NOT TO PROVIDE DESIGN SERVICES FOR THE PROJECT. THE CONSULTANT'S RESPONSIBILITY IS NOT TO PROVIDE DESIGN SERVICES FOR THE PROJECT.

**CONSULTANT**

**Westwood**

Phone: (817) 883-0105 | Fax: (817) 883-0106  
Toll Free: (888) 955-1550 | Email: info@westwood.com  
Westwood Professional Services, Inc.

**CLIENT**

**BLACK MOUNTAIN ENERGY STORAGE**

BLACK MOUNTAIN  
www.bmenergystorage.com  
Fort Worth, TX 76102

- INTERSECTION RIGHT TRIANGLE FOR THROUGHFARE STANDARDS TABLE 8 (SEE NOTE 1)
- INTERSECTION RIGHT TRIANGLE FOR THROUGHFARE STANDARDS TABLE 8 (SEE NOTE 1)
- INTERSECTION RIGHT TRIANGLE FOR THROUGHFARE STANDARDS TABLE 8 (SEE NOTE 1)

**GENERAL SITE PLAN**

DATE: 07/26/2023

**BUFFLEHEAD BESS**

CITY OF WYTHE  
COLLIN COUNTY, TX

**ISSUE/REVISION**

| REV | DESCRIPTION | DB | AB | DATE |
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**SHEET NUMBER** **REV:**

**NOTES:**

1. VISIBILITY EASEMENTS TO BE PROVIDED WHERE NECESSARY BASED ON TRAIL ROAD CURVATURE.
2. LANDSCAPE PROPOSED WITHIN RIGHT TRIANGLES TO BE SHURBS OR OTHER PLANTS THAT DOES NOT INTERFERE WITH RIGHT TRIANGLE (SEE NOTE 1).
3. PROPOSED DESIGN SHALL COMPLY WITH NECE ORDINANCES.

**TYPICAL EQUIPMENT ELEVATIONS**

NTS

**O&M BUILDING**

**PCS**

**BESS ENCLOSURE**

**PDC**

**STEP UP TRANSFORMER**

NOTE: ELEVATIONS ARE ILLUSTRATIVE REPRESENTATION OF THE PROPOSED PROJECT. ACTUAL SIZES AND EQUIPMENT MAY CHANGE FROM WHAT IS CURRENTLY REPRESENTED.

SCALE: 1" = 60'

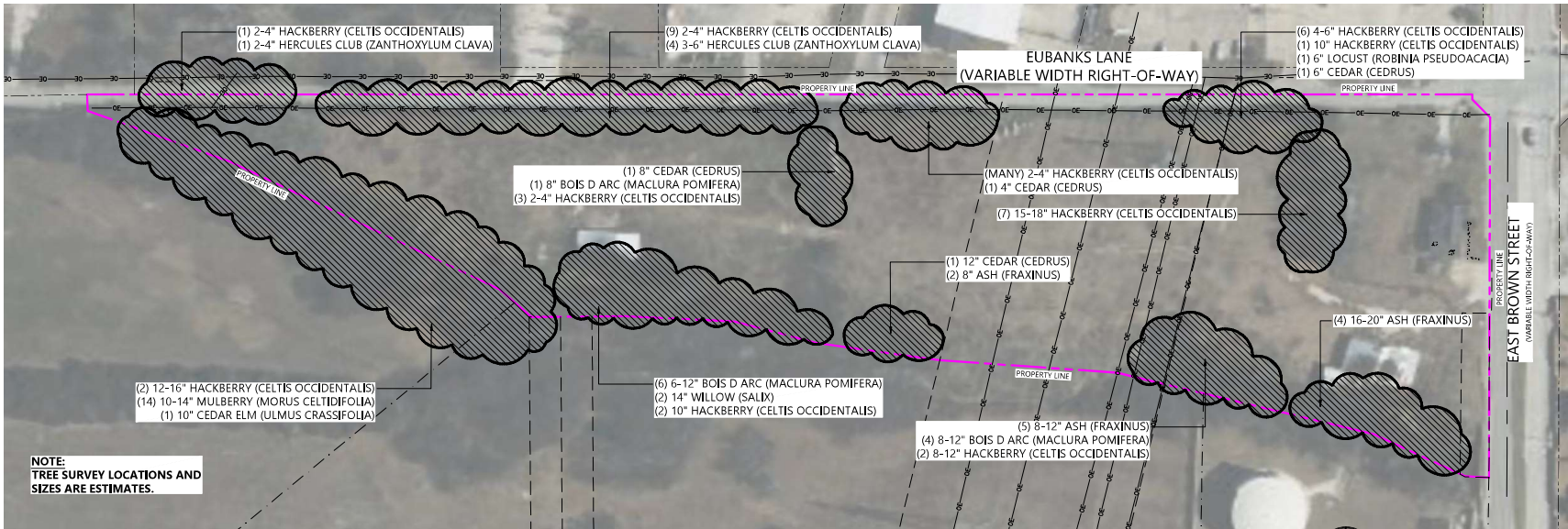


FILED FOR:



425 Houston Street, Ste 400  
Fort Worth, TX 76102

| REVISIONS: | # | DATE | COMMENT |
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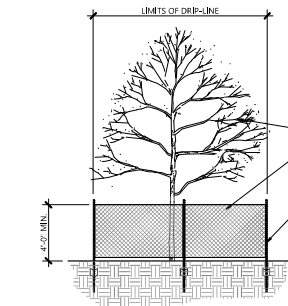
**1 OVERALL TREE INVENTORY PLAN**  
1" = 60'-0"

## TREE MITIGATION NOTES

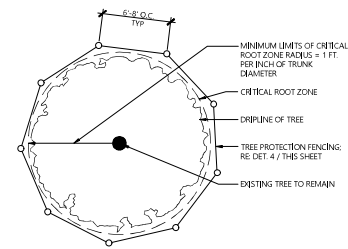
- PROCEDURES REQUIRED PRIOR TO CONSTRUCTION. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED ON ALL TYPES OF CONSTRUCTION PROJECTS.
  - DURING PRE-CONSTRUCTION, TREES TO BE REMOVED SHOULD BE REMOVED FROM THE SITE IN A MANNER TO AVOID INJURY TO REMAINING TREES, INCLUDING THE REMOVAL OF STUMPS AND/OR ROOT SYSTEMS. HEAVY EQUIPMENT SHALL NOT ENDOUGH ON THE ROOT SYSTEMS OF TREES TO BE RETAINED OR OTHER TREES OF HIGH VALUE. IF NECESSARY, TREES SHOULD BE REMOVED MANUALLY WITH CHAIN SAWS, AND STUMPS SHOULD BE GROUND OUT INSTEAD OF USING HEAVY EQUIPMENT.
  - CRITICAL ROOT ZONES SHALL BE ESTABLISHED AND MAINTAINED FOR ALL TREES TO BE CONSERVED ON A CONSTRUCTION SITE. THIS AREA MAY BE ADJUSTED FOR EXISTING BUILDINGS, WALKWAYS, AND ROADS BY PERMISSION OF OWNER. BARRICADES SHALL BE 4 FOOT HIGH ORANGE VINYL CONSTRUCTION FENCE, SIGNS IN ENGLISH AND SPANISH SHALL BE PLACED VISIBLE FROM ALL DIRECTIONS ALONG THE FENCE TO INFORM WORKERS OF THE PURPOSE OF THE BOUNDARY. THE BARRIER AND PROPER SIGNAGE SHALL BE INSTALLED PRIOR TO ANY SITE PREPARATION AND SHALL BE MAINTAINED THROUGHOUT ALL PHASES OF THE CONSTRUCTION PROJECT. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN THE TREE DRIP LINE. APPLY 4 INCHES OF COARSE MULCH WITHIN PROTECTION AREAS TO HELP REDUCE MOISTURE STRESS AND REDUCE MAINTENANCE.
  - WHERE EXCAVATIONS ARE PERFORMED WITHIN THE ROOT ZONE OF TREES, TRENCHING SHOULD BE PERFORMED MANUALLY, OR BY USING A VIBRATORY FLOW, DIRECTIONAL BORER, OR BY AIR SPADING. BACKFILLS SHALL NOT BE USED TO RIP ROOTS AT CONSIDERABLE DISTANCES FROM THE POINT OF EXCAVATION WHEN TRENCHING OR MODIFICATION OF THE ROOT ZONE ENCLOSED HEAVILY ONTO ESTABLISHED TREES. A ROOT PRUNING METHOD SHOULD BE EMPLOYED WHERE THE ROOTS ARE EXPOSED AND TRIMMED WITH PROPER PRUNING TOOLS SEVERAL INCHES TO THE SIDE OF THE TRENCH BORDERING THE TRUNK OF THE AFFECTED TREE. TEARING OF ROOTS IS TO BE AVOIDED. SUPPLEMENTAL IRRIGATION SHALL START IF NEEDED. ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH TO THE SOIL AND SEALED USING LAC-BALSAM BACKFILL. ROOT AREAS WITH GOOD QUALITY TOP SOIL, AS SOON AS POSSIBLE (I.E. WITHIN THE SAME WORKING), IF ROOTS ARE NOT BACKFILLED WITHIN THIS TIME, THEY SHALL BE COVERED WITH ORGANIC MATERIAL SUCH AS COMPOSTED MULCH TO A DEPTH OF 4 INCHES, WHICH WILL REDUCE TEMPERATURE AND MINIMIZE WATER LOSS DUE TO EVAPORATION.
  - ALL TREES DIRECTLY ADJACENT TO BUILDINGS SHOULD BE PRUNED FOR CANOPY RAISING TO PROVIDE A MINIMUM OF 4 TO 6 FEET OF CLEARANCE OVER THE BUILDINGS AS WELL AS CANOPY REDUCTION PRUNING TO PROVIDE A MINIMUM OF 2 FEET CLEARANCE AWAY FROM THE SIDES OF BUILDINGS.

- THE FOLLOWING ACTIVITIES ARE PROHIBITED WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF ANY PROTECTED TREE SUBJECT TO THE REQUIREMENTS OF THE CITY ORDINANCE.
  - MATERIAL STORAGE: NO MATERIALS INTENDED FOR USE IN CONSTRUCTION OR WASTE MATERIALS ACCUMULATED DUE TO EXCAVATION OR DEMOLITION SHALL BE PLACED WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF ANY PROTECTED TREE.
  - EQUIPMENT CLEANING/LIQUID DISPOSAL: NO EQUIPMENT SHALL BE CLEANED OR OTHER LIQUIDS DEPOSITED OR ALLOWED TO FLOW OVERLAND WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF A PROTECTED TREE. THIS INCLUDES WITHOUT LIMITATION, PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR OR SIMILAR MATERIALS.
  - TREE ATTACHMENTS: NO SIGNS, WIRES OR OTHER ATTACHMENTS, OTHER THAN THOSE A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY PROTECTED TREE.
  - GRADE CHANGES: NO GRADE CHANGES SHALL BE ALLOWED WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF ANY PROTECTED TREE UNLESS ADEQUATE CONSTRUCTION METHODS ARE APPROVED BY THE LANDSCAPE ARCHITECT.
  - IMPERVIOUS PAVING: NO PAVING WITH ASPHALT, CONCRETE OR OTHER IMPERVIOUS MATERIALS THAT MAY REASONABLY BE EXPECTED TO KILL A TREE SHALL BE PLACED WITHIN THE LIMITS OF CRITICAL ROOT ZONE OF A PROTECTED TREE EXCEPT AS OTHERWISE ALLOWED IN THE CITY ORDINANCE.
  - PROHIBITED ACTIVITIES IN DRIP-LINE: NO HEAVY EQUIPMENT, INCLUDING BUT NOT LIMITED TO TRUCKS, TRACTORS, TRAILERS, BULLDOZERS, BOBCAT TRACTORS, TRENCHERS, COMPRESSORS, AND HOISTS, SHALL BE ALLOWED INSIDE THE DRIP-LINE OF ANY PROTECTED TREE ON ANY CONSTRUCTION SITE WITHOUT THE SPECIFIC APPROVAL OF THE LANDSCAPE ARCHITECT.
  - TREES THAT WERE PREVIOUSLY IRRIGATED SHALL BE IRRIGATED DURING CONSTRUCTION. THEY SHALL RECEIVE A MIN. OF ONE INCH OF WATER PER WEEK FROM THE COMBINATION OF RAINFALL AND IRRIGATION. TREES WITH ROOT-DAMAGE SHALL RECEIVE TWO INCHES OF WATER PER WEEK FROM COMBINATION OF RAINFALL AND IRRIGATION.
  - CONTRACTOR RESPONSIBLE FOR ANY DAMAGE TO TREES THAT ARE TO REMAIN. CONTRACTOR TO INSTALL NEW TREE OF EQUIVALENT SIZE IF DAMAGED DURING CONSTRUCTION.

## TREE MITIGATION DETAILS



**1 TREE PROTECTION FENCING**  
1/2" = 1'-0"



**2 TREE PROTECTION FENCING- PLAN VIEW**  
N.T.S.

## Bufflehead BESS Project

Collin County, Texas

## Overall Tree Inventory Plan

NOT FOR CONSTRUCTION

DATE: 07/19/2023

SHEET: L.100



## PLANTING SCHEDULE

SOD/SEED

SHEET: L.200

**INTERIM REVIEW**

THIS DOCUMENT HAS BEEN PREPARED BY WESTWOOD PROFESSIONAL SERVICES, INC. FOR THE PROJECT DESCRIBED HEREIN. IT IS NOT TO BE USED FOR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF WESTWOOD PROFESSIONAL SERVICES, INC.

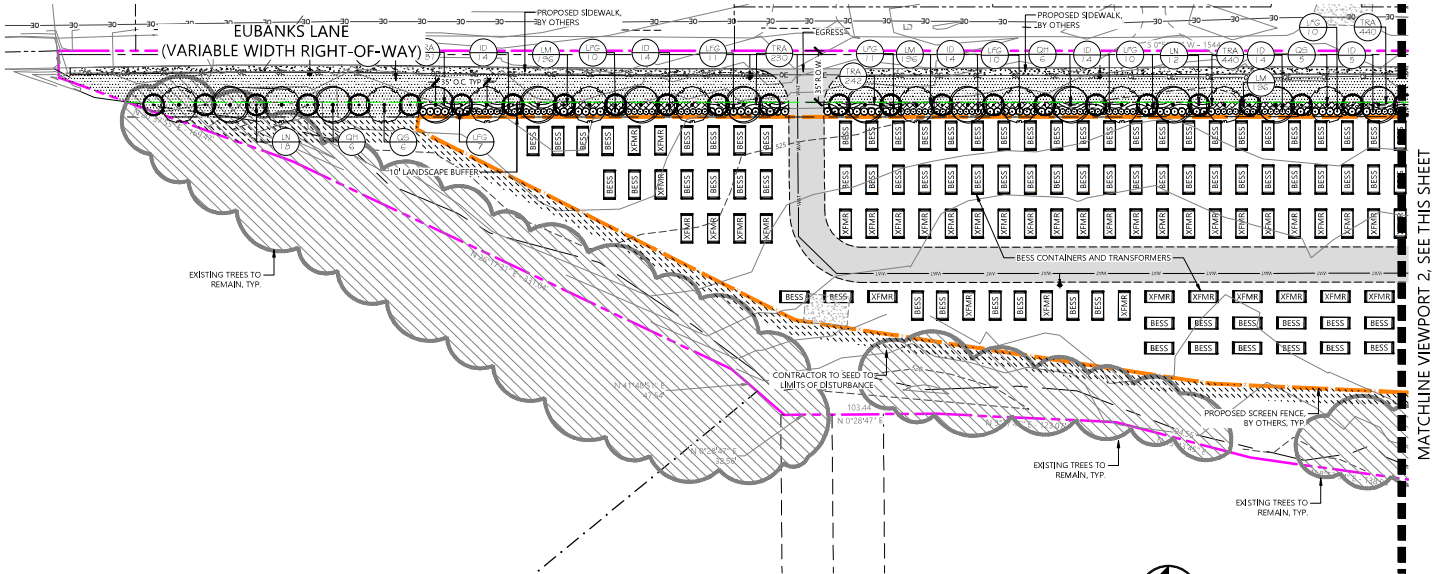
PREPARED FOR:



425 Houston Street, Ste 400  
Fort Worth, TX 76102

REVISIONS:

| # | DATE | COMMENT |
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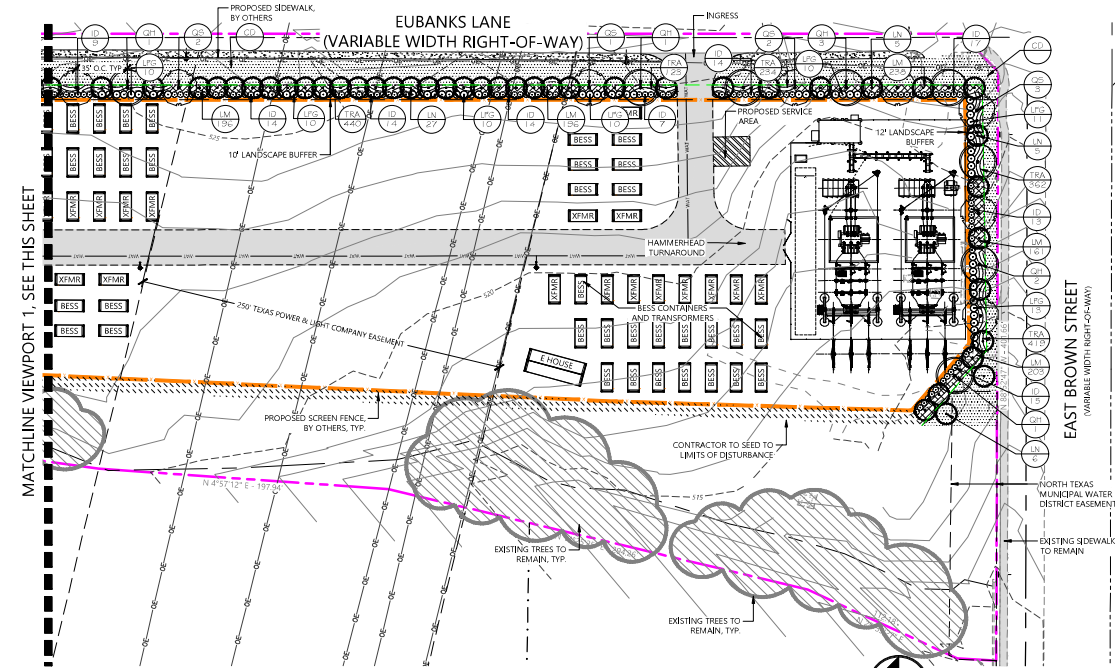
MATCHLINE VIEWPORT 2, SEE THIS SHEET



0 20 40 80 120  
GRAPHIC SCALE IN FEET

**1 LANDSCAPE PLAN**

1" = 40'-0"



MATCHLINE VIEWPORT 1, SEE THIS SHEET

EAST BROWN STREET  
(VARIABLE WIDTH RIGHT-OF-WAY)



0 20 40 80 120  
GRAPHIC SCALE IN FEET

**2 LANDSCAPE PLAN**

1" = 40'-0"

**PLANTING KEY**

| TREES            | CODE | QTY        | BOTANICAL / COMMON NAME                                              |
|------------------|------|------------|----------------------------------------------------------------------|
|                  | QS   | 22         | QUERCUS SHUMARDII<br>SHUMARD RED OAK                                 |
|                  | QH   | 17         | QUERCUS VIRGINIANA 'HIGH RISE'<br>HIGH RISE LIVE OAK                 |
| ORNAMENTAL TREES | CODE | QTY        | BOTANICAL / COMMON NAME                                              |
|                  | LN   | 73         | LACERSTRODIA X 'NATCHEZ'<br>CRAPE MYRTLE                             |
| SHRUBS           | CODE | QTY        | BOTANICAL / COMMON NAME                                              |
|                  | ID   | 192        | ILEX CORNUTA 'DWARF BURFORD'<br>DWARF BURFORD HOLLY                  |
|                  | LFG  | 143        | LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD' TM<br>GREEN CLOUD TEXAS RANGER |
| GROUND COVERS    | CODE | QTY        | BOTANICAL / COMMON NAME                                              |
|                  | LM   | 1,582      | LIRIOPE MUSCARI 'BIG BLUE'<br>LILY TURF                              |
|                  | NH   | 101,807 SF | NATIVE SEED MIX-HYDROSEED                                            |
|                  | TRA  | 3,311      | TRACHELOSPERMUM ASIATICUM<br>ASIAN JASMINE                           |
| SOD/SEED         | CODE | QTY        | BOTANICAL / COMMON NAME                                              |
|                  | CD   | 31,091 SF  | CYNODON DACTYLON<br>BERMUDA GRASS                                    |

**Bufflehead  
BESS Project**

Collin County, Texas

Landscape Plan

NOT FOR CONSTRUCTION

DATE: 07/19/2023

SHEET: L.201

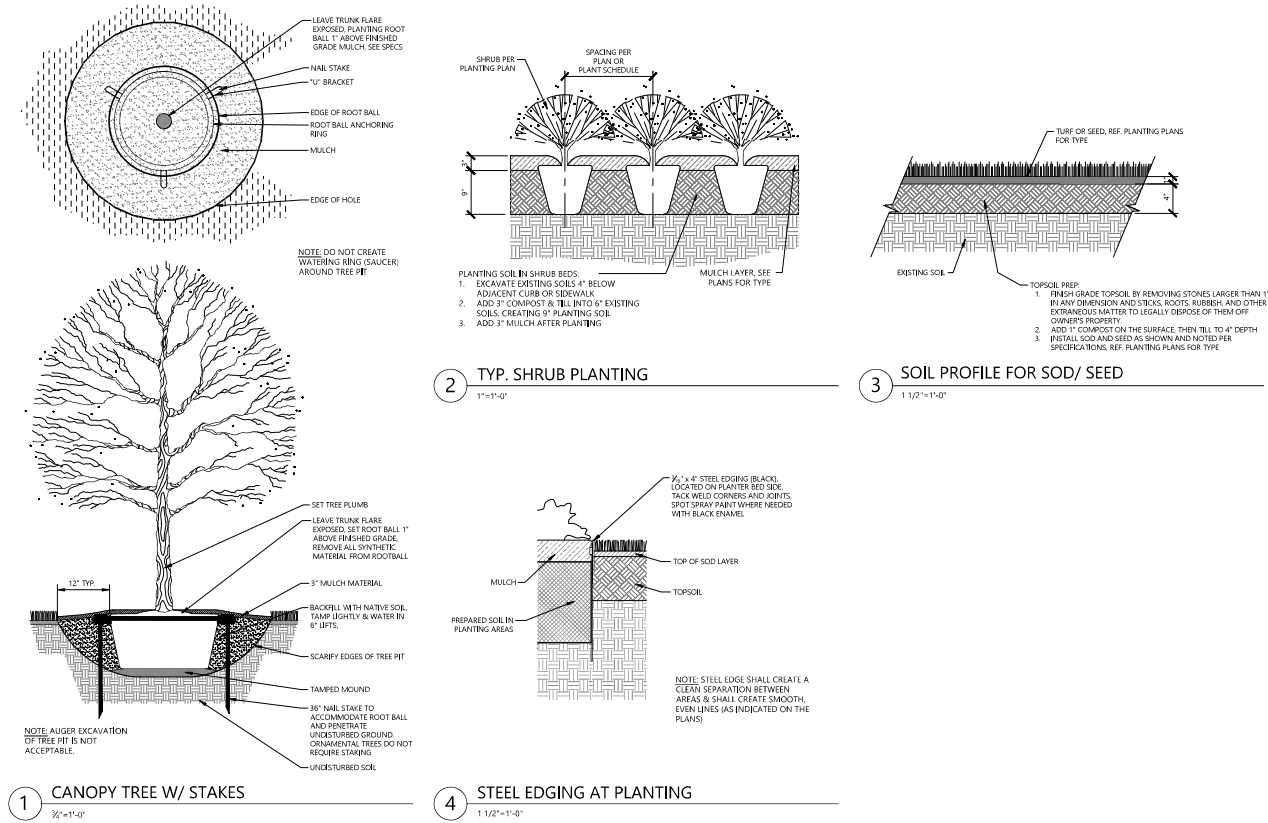
PLANTING NOTES

- 1. ALL PLANTS SHALL BE SET OUT FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- 2. FINE GRADING SHALL BE PERFORMED IN ALL AREAS TO BE LANDSCAPED. FINE GRADING SHALL INCLUDE THE REMOVAL OF DEBRIS, ROCKS, ETC. FROM THE SITE AND INSURE POSITIVE DRAINAGE IN ALL AREAS.
- 3. THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND EASEMENTS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES DURING THE COURSE OF CONSTRUCTION.
- 4. WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
- 5. THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS ASSOCIATED WITH THE LANDSCAPE AND ACCESSORIES.
- 6. ALL PLANT MATERIALS SHALL MEET ANSI Z60.1 STANDARDS FOR CALIPER, HEIGHT AND ROOT BALL SIZE. ANY MATERIALS THAT DO NOT MEET OR EXCEED SUCH STANDARDS SHALL BE REJECTED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
- 7. BALLED AND BURLAPPED TREES SHALL HAVE THE TOP HALF OF THE WIRE BASKET REMOVED. THE BURLAP SHALL BE REMOVED TO THE GREATEST EXTENT POSSIBLE, USING A KNIFE TO CUT AND REMOVE THE BOTTOM HALF UNDER THE WIRE BASKET THAT REMAINS.
- 8. QUANTITIES ARE SHOWN FOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES.

PLANT MATERIAL



PLANTING DETAILS



Westwood

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Fax: (817) 335-1302 Glenview, TX 75045  
Sales: (817) 335-1101 westwood@westwood.com  
Westwood Professional Services, Inc.

INTERIM REVIEW

THIS DOCUMENT HAS BEEN REVIEWED FOR  
CONFORMANCE WITH THE  
REQUIREMENTS OF THE  
STATE OF TEXAS  
FOR THE  
PROJECT  
DATE: 07/19/2023  
DRAWING NUMBER: 1003

PREPARED FOR:



425 Houston Street, Ste 400  
Fort Worth, TX 76102

| REVISIONS |      |         |
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| #         | DATE | COMMENT |
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Bufflehead BESS Project

Collin County, Texas

Landscape Notes & Details

NOT FOR CONSTRUCTION

DATE: 07/19/2023

SHEET: L.202