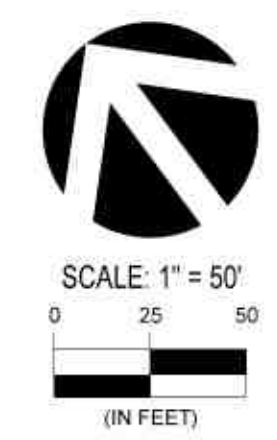


VICINITY MAP
NOT TO SCALE



LEGEND

- PROPERTY BOUNDARY
- EXISTING BUILDING
- EXISTING ASPHALT PAVEMENT
- EXISTING CONCRETE PAVEMENT
- EXISTING PERIMETER FENCE
- (W) EXISTING WATER LINE
- (WW) EXISTING SANITARY SEWER LINE
- (OU) EXISTING OVERHEAD UTILITY LINE
- (G) EXISTING GAS LINE
- (T) EXISTING TELECOM LINE
- [] PROPOSED BUILDING
- [] PROPOSED 7" CONCRETE PAVEMENT

EXISTING TREE LIST

TREE NO.	SIZE	DESCRIPTION
1	8.5" +/-	(MICRAPE MYRTLE, 7'-10" HEIGHT
2	8.5" +/-	(MICRAPE MYRTLE, 7'-10" HEIGHT
3	8.5" +/-	(MICRAPE MYRTLE, 7'-10" HEIGHT
4	8.5" +/-	(MICRAPE MYRTLE, 7'-10" HEIGHT
5	8.5" +/-	(MICRAPE MYRTLE, 7'-10" HEIGHT
6	8.5" +/-	(MICRAPE MYRTLE, 7'-10" HEIGHT
7	8.5" +/-	(MICRAPE MYRTLE, 7'-10" HEIGHT
8	8.5" +/-	(MICRAPE MYRTLE, 7'-10" HEIGHT
9	2.5"	OAK
10	8" +/-	(M)25 MESQUITE TREES
11	35"	OAK
12	12.5" +/-	(M)MESQUITE
13	6"	OAK
14	7.5"	OAK
15	8"	OAK
16	7.5"	OAK
17	8"	OAK
18	3"	OAK
19	7.5"	OAK
20	6.5"	OAK
21	5"	OAK
22	7"	OAK
23	6"	OAK
24	9.5"	OAK
25	5"	OAK
26	2"	OAK
27	5" - 10"	(MICRAPE MYRTLE, 7'-9" HEIGHT
28	4"	ASH
29	8" - 13.5"	(M)MESQUITE
30	36"	OAK
31	25"	OAK
32	5" - 10"	(M)MESQUITE
33	5" - 10"	(M)MESQUITE
34	20-30	YOUNG TREES

NOTES

- ALL MINIMUM BUILDING SETBACKS SHALL BE IN ACCORDANCE WITH THE CITY OF BRYAN CODE OF ORDINANCES.
- FOR EXISTING UTILITY LOCATION, CONTACT THE CITY OF BRYAN PUBLIC WORKS DEPARTMENT AT (817) 208-1900.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTAINMENT AND PROPER DISPOSAL OF ALL LIQUID AND SOLID WASTE ASSOCIATED WITH THIS PROJECT. THE CONTRACTOR SHALL USE ALL MEANS NECESSARY TO PREVENT THE OCCURRENCE OF WINDBLOWN LITTER FROM THE PROJECT SITE.
- DEMOLITION / CONSTRUCTION WASTE - SITE IS REQUIRED TO PROVIDE CONTAINMENT FOR WASTE PRIOR TO AND DURING DEMOLITION AND CONSTRUCTION. SOLID WASTE ROLL OFF BOXES AND/OR METAL DUMPSTERS SHALL BE SUPPLIED BY THE CITY OF BRYAN, OR CITY PERMITTED CONTRACTOR ONLY.
- PROPOSED FACILITY WILL NOT REQUIRE A NEW WATER METER. WATER SERVICE TO THE STRUCTURE WILL BE PROVIDED BY EXISTING FACILITY WATER LINES.
- NO PROCESS WASTEWATER SHALL BE INTRODUCED INTO THE PUBLIC SEWER SYSTEM FROM SITE OPERATIONS OTHER THAN THE DOMESTIC WASTEWATER FROM THE EXISTING MODULAR LABORATORY BUILDING.
- POTABLE WATER LINE INSTALLATION SHALL MEET TCEQ SEPARATION AND CROSSING REQUIREMENTS WITH ANY NON-POTABLE WATER LINE.
- BACKFLOW ASSEMBLIES MUST BE TESTED BY A CITY-PERMITTED ASSEMBLY TESTER IMMEDIATELY FOLLOWING INSTALLATION.
- PREMISE ISOLATION AND INTERNAL PROTECTION FOR CROSS-CONTAMINATION TO THE PUBLIC WATER SYSTEM SHALL BE REQUIRED AS NOTED IN TEXAS ADMINISTRATIVE CODE 39 TAC CHAPTER 290.47, APPENDIX F.
- PARKING ANALYSIS: MAXIMUM OF 10 EMPLOYEES PRESENT DURING LARGEST SHIFT. THIS PROJECT DOES NOT INCREASE THE MAXIMUM NUMBER OF EMPLOYEES, SO NO NEW PARKING IS PROVIDED.

LANDSCAPE NOTES

- SITE IS 11.69 ACRES. EXISTING DEVELOPED AREA IS 3.11 ACRES, AND LANDSCAPING MEETING CITY OF BRYAN REQUIREMENTS WAS FURNISHED.
- REMAINDER OF THE SITE IS COVERED WITH NATIVE TREES AND NATIVE GRASSES.
- AREAS TO BE GRADED WILL BE RE-SEEDDED WITH GRASS.

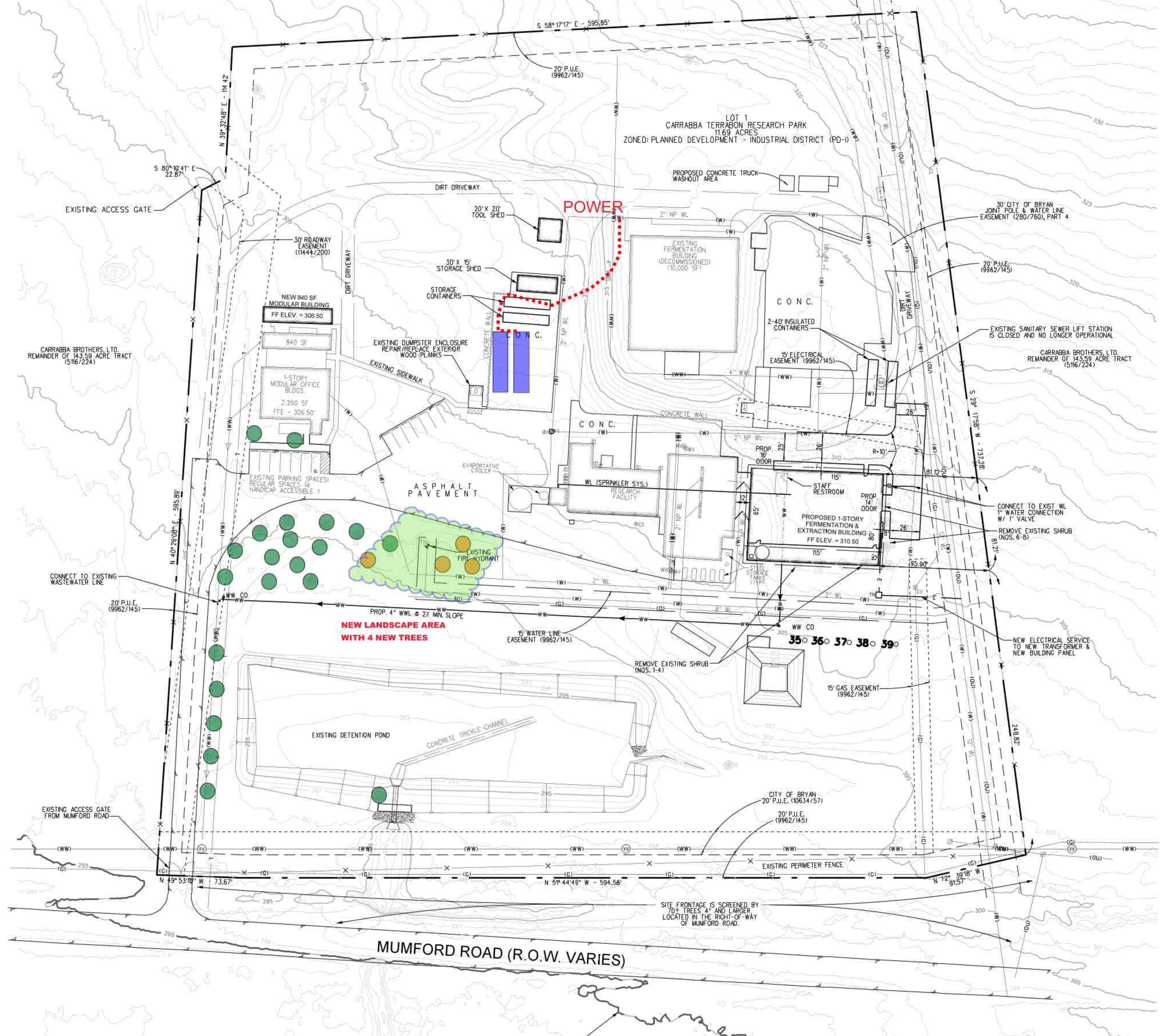
LANDSCAPE PLAN / ANALYSIS

ITEM / DESCRIPTION	QUANTITY
TOTAL SITE AREA	509,217 SF
TOTAL AREA OF NEW DEVELOPMENT	6,475 SF
LANDSCAPE AREA REQUIRED (15%)	971 SF
GRASS / GROUND COVER	0
NON-CANOPY TREES	0
CAPOPY TREES (1/200)	5

5 TREES REQUIRED. PROPOSED 15" CEDAR ELM PROVIDE DRIP IRRIGATION FOR NEWLY PLANTED TREES.

PROPOSED TREE LIST

TREE NO.	SIZE	DESCRIPTION
35 - 39	15" MIN.	CEDAR ELM



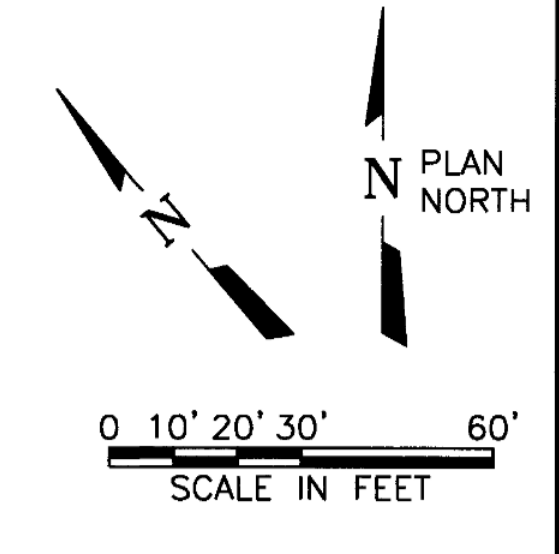
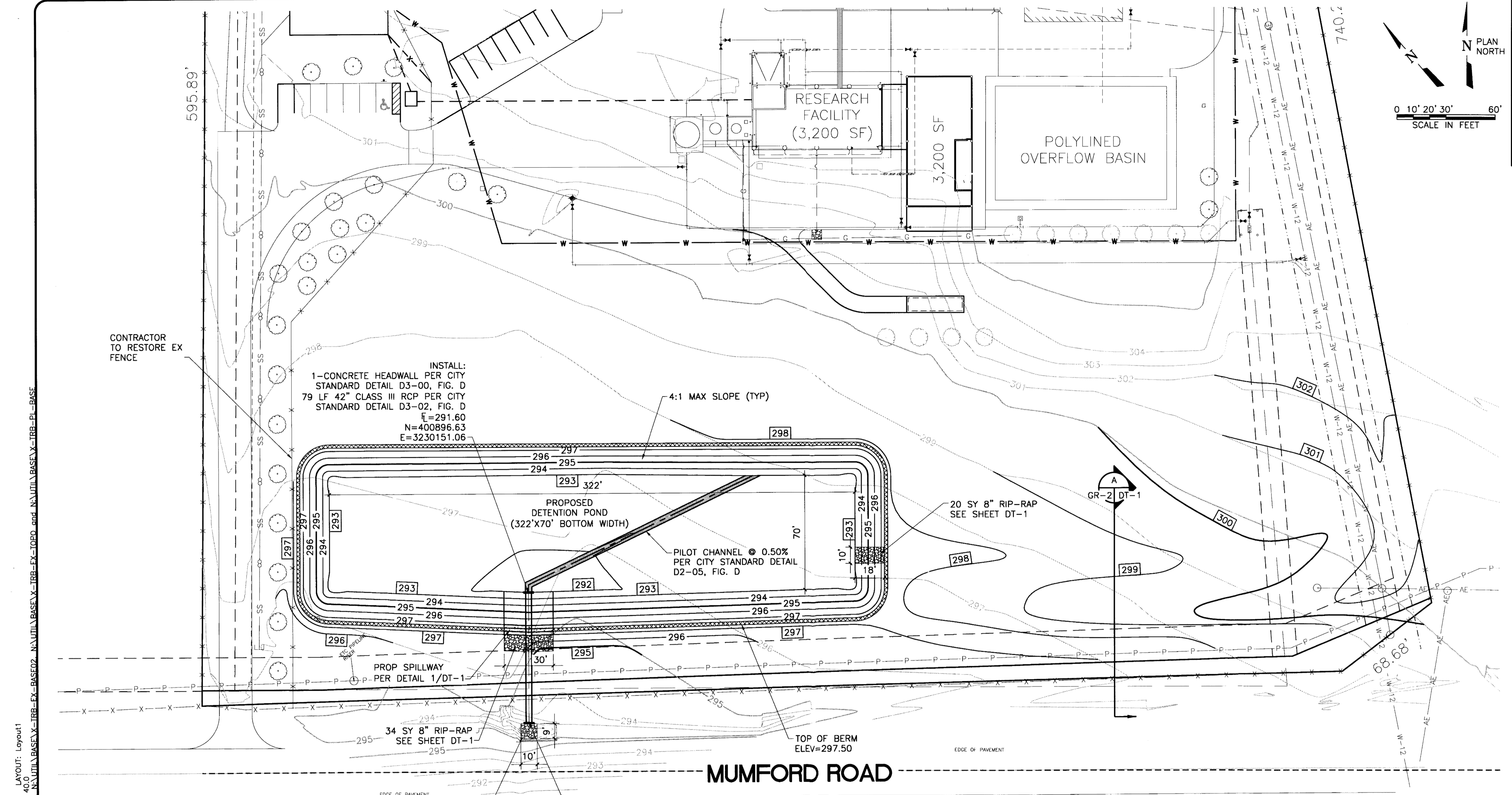
PROPOSED SITE PLAN
OWNER:
EARTH ENERGY RENEWABLES, LLC
FERMENTATION BUILDING ADDITION
MUMFORD ROAD RESEARCH FACILITY
6150 MUMFORD ROAD BRYAN, TEXAS 77807



PREPARED BY:
DUNAWAY
TX Registered Engineering Firm #F-1114
TBPLS # 10065900
5707 Southwest Parkway
Building 2, Suite 250
Austin, TX 78735

7/21/2020

S:\Projects\Earth Energy - Bryan - 12-720\CAD\Plans - Site Plan\Smaera 01-EEP-Site PLAN.dwg
10/12/2016 - EARTH ENERGY RENEWABLES - NEW FERMENTATION BUILDING



Freese and Nichols, Inc.
Texas Registered Engineering Firm F-2144
11/17/11
CLAYTON R. EVERS
94646
EXPIRES 11/17/12

FREESE & NICHOLS
4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6350
Phone - (210) 299-3800
Fax - (210) 299-3801

TERRABON RESEARCH COMPANY, LLC.
TEMPORARY MODULAR OFFICE COMPLEX
DETENTION POND PLAN

INSTALL:
1-CONCRETE HEADWALL PER CITY
STANDARD DETAIL D3-00, FIG. D
79 LF 42" CLASS III RCP PER CITY
STANDARD DETAIL D3-02, FIG. D
E=291.60
N=400896.63
E=3230151.06

PROPOSED
DETENTION POND
(322'X70' BOTTOM WIDTH)
PILOT CHANNEL @ 0.50%
PER CITY STANDARD DETAIL
D2-05, FIG. D
TOP OF BERM
ELEV=297.50

20 SY 8" RIP-RAP
SEE SHEET DT-1

PROP SPILLWAY
PER DETAIL 1/DT-1

34 SY 8" RIP-RAP
SEE SHEET DT-1

INSTALL:
1-CONCRETE HEADWALL PER CITY
STANDARD DETAIL D3-00, FIG. D
END 42" CLASS III RCP
E=291.10
N=400836.42
E=3230100.54

DETENTION POND PLAN
11.69 ACRE TRACT
6150 MUMFORD ROAD
BRYAN, TEXAS 77807
MOSES BAINE LEAGUE, A-3

VOLUME SUMMARY

CUT	FILL	NET
4686 CY	807 CY	3879 <CUT>

GENERAL NOTES:

- HEC-HMS VERSION 3.5 WAS USED FOR HYDROLOGIC AND DETENTION CALCULATIONS. REFER TO DRAINAGE REPORT BY FREESE AND NICHOLS, INC. FOR FURTHER DESCRIPTION OF THE DRAINAGE ANALYSIS.
- CONTRACTOR TO VERIFY AND LOCATE ALL EXISTING UTILITIES IN AREA PRIOR TO BEGINNING CONSTRUCTION.

RELEASED FOR CONSTRUCTION
DEC 01 2011
City of Bryan
Engineering Services

Pond Summary Table

Storm Event	Peak Release Rate Allowed	Peak Release Rate Provided	Peak Rate DS of Pond	Peak Stages
	CFS	CFS	CFS	FT
2-Year	26.4	24.0	24.7	294.0
10-Year	56.5	41.1	42.6	294.8
25-Year	68.9	48.8	50.5	295.2
50-Year	79.8	54.7	56.6	295.4
100-Year	90.0	60.4	62.6	295.7

Storage Elevation Discharge Table

Elevation	Storage	Discharge
FT	AC-FT	CFS
292	0	0
293	0.2	8.6
294	0.8	23.8
295	1.4	44.6
295.7	1.9	59.8

ACAD: Rel: 18, Is: (LMS, Tech)
User: jmr TRB-PL-POND.DWG LAYOUT: Layout1
11/17/2011 10:51 AM
6 REFERENCE FILES: 89499, 94646, N:\UTIL\BASE\X-TRB-EX-TOPO, N:\UTIL\BASE\X-TRB-PL-BASE

NO.	ISSUE	DATE	BY	TRB JOB NO.	DATE	DESIGNED	DRAWN	REVISION	CHECKED	FILE NAME
				TRB11145	NOV 2011	JMR	RGH			CV-TRB-PL-POND.dwg

VERIFY SCALE
Bar is one inch on original drawing. If not one inch on this sheet, adjust scale.

SHEET **GR-2**

SEQ.