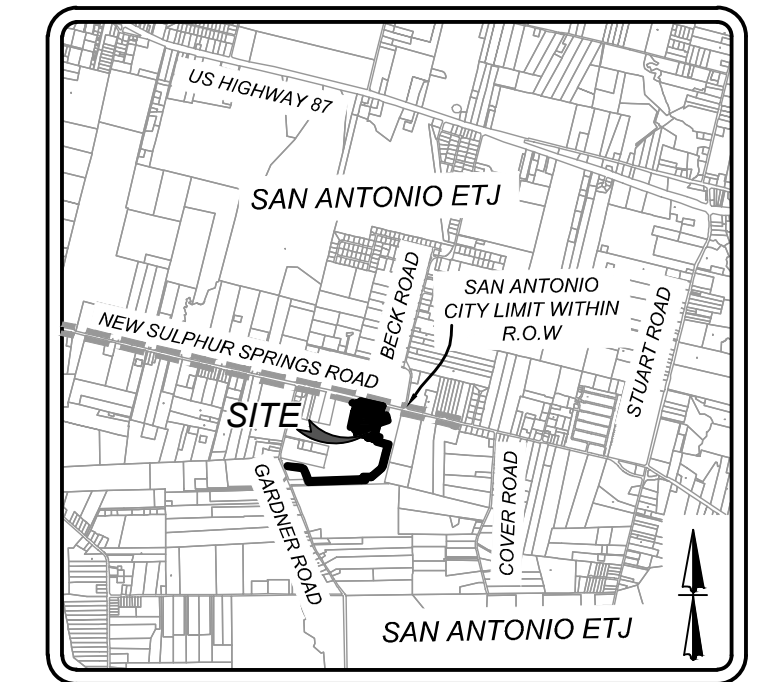
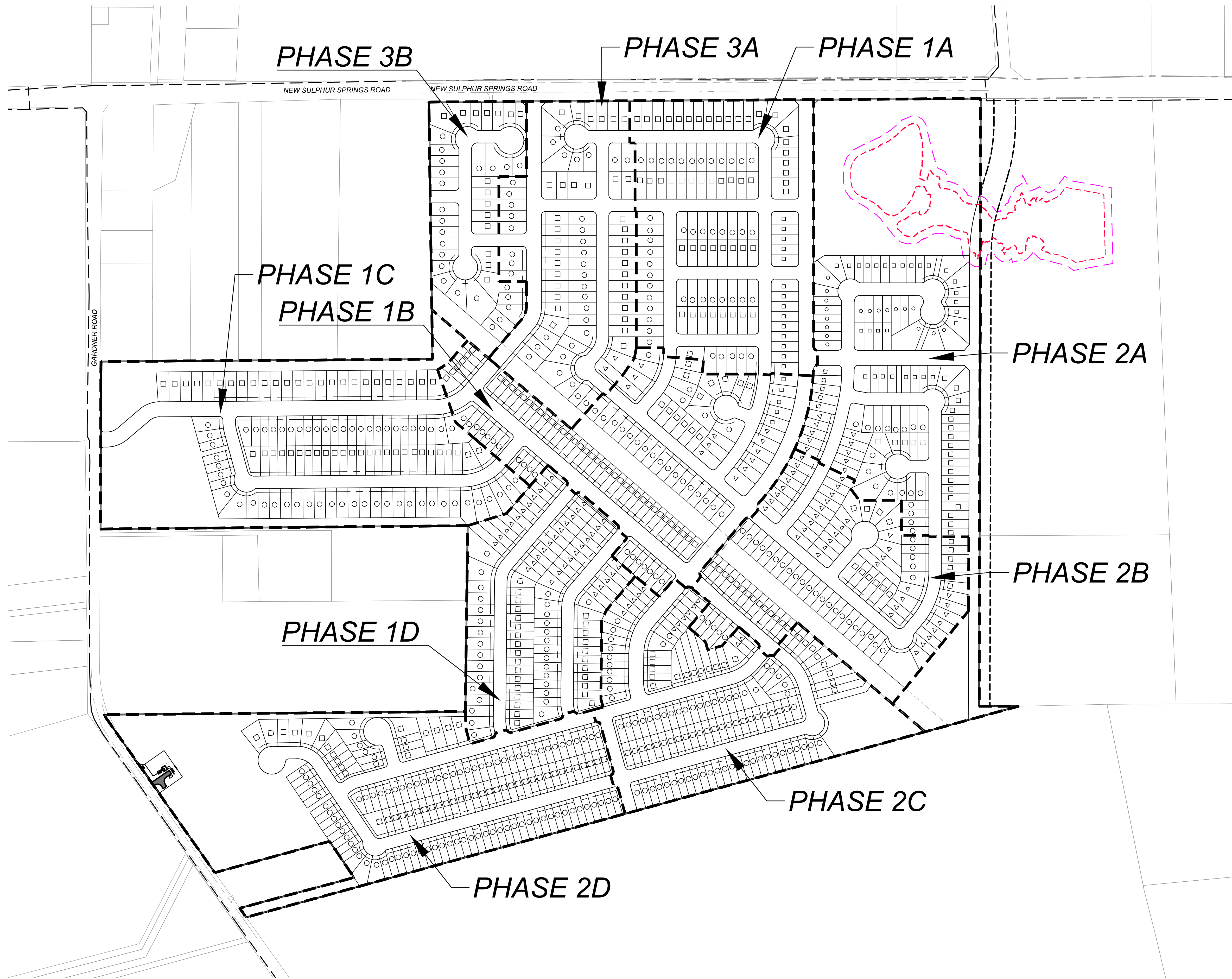
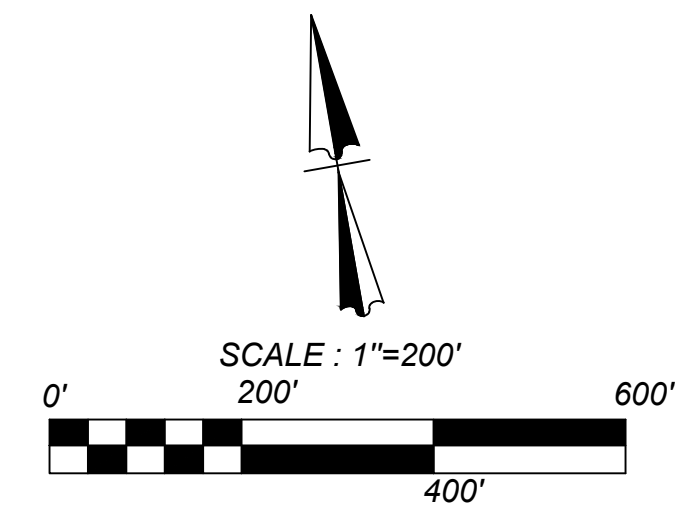


Date: Feb 28, 2023, 9:16am User ID: Aturgeon  
File: N:\14\06\Design\CDM\TRCES\TPP3143906-Unit\_3A.dwg



LOCATION MAP  
N.T.S.



**KFW**  
**ENGINEERS + SURVEYING**  
Phone #: (210) 878-8444 • Fax #: (210) 878-8441  
TBPE Firm #: 9513 • TBPE S Firm #: 1012300

REVISIONS	ISSUE DATE
△ REVISIONS	
△ CALCULATIONS AND LOT DESIGNATIONS	09/04/2022
△ REVISIONS	
△ CALCULATIONS AND RIPARIAN BUFFER LINES	10/27/2022
△ REVISIONS	
△ CALCULATIONS AND RIPARIAN BUFFER LINES	07/04/2023

**SAPPHIRE GROVE PHASE 3A**  
BEXAR COUNTY, TEXAS  
**TREE PRESERVATION PLAN (1 OF 8)**

PLAT NO.  
21-11800689  
JOB NO. 314-39-06  
DATE: FEBRUARY 2022  
DRAWN: CHECKED: TE  
SHEET NUMBER:  
**EX-1.0**







**TREE PROTECTION NOTES**

1. A ROOT PROTECTION ZONE WILL BE ESTABLISHED AROUND EACH TREE OR ANY VEGETATION TO BE PRESERVED TO MEET THE LANDSCAPE OR TREE PRESERVATION ORDINANCES. THE ROOT PROTECTION ZONE SHALL BE AN AREA DEFINED BY THE RADIUS EXTENDING OUTWARD FROM THE TRUNK OF THE TREE A DISTANCE OF ONE (1) LINEAR FOOT FOR EACH INCH DIAMETER INCH AT BREAST HEIGHT (4.5) OF THE TREE. A 10-INCH DIAMETER TREE WILL HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE.
2. NO WORK SHALL BEGIN WHERE TREE PROTECTION FENCING HAS NOT BEEN COMPLETED AND APPROVED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION. THE FENCING WILL BE A MINIMUM OF 4' HEIGHT.
3. ALL ROOTS LARGER THAN ONE-INCH IN DIAMETER ARE TO BE CUT CLEANLY AND OAK WOUNDS PAINTED WITHIN 30 MINUTES.
4. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE WORK DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
5. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL BE OPERATED OR STORED WITHIN THE ROOT PROTECTION ZONE. NO CLEAN-OUT AREAS WILL BE CONSTRUCTED SO THAT THE MATERIAL WILL BE IN OR MIGRATE TO THE ROOT PROTECTION ZONE.
6. NO GRADE CHANGE MORE THAN 3" IS ALLOWED WITHIN THE ROOT PROTECTION ZONE.
7. ROOTS OR BRANCHES IN CONFLICT WITH CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. ALL OAK WOUNDS SHALL BE PAINTED WITHIN 30 MINUTES TO PREVENT OAK WILT INFECTION.
8. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY OF SAN ANTONIO.
9. TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED.
10. TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE WATERING THE ROOT PROTECTION ZONE AND OR WASHING FOLIAGE.
11. NO WIRES, NAILS OR OTHER MATERIALS MAY BE ATTACHED TO PROTECTED TREES.

**CONTRACTOR NOTE:**

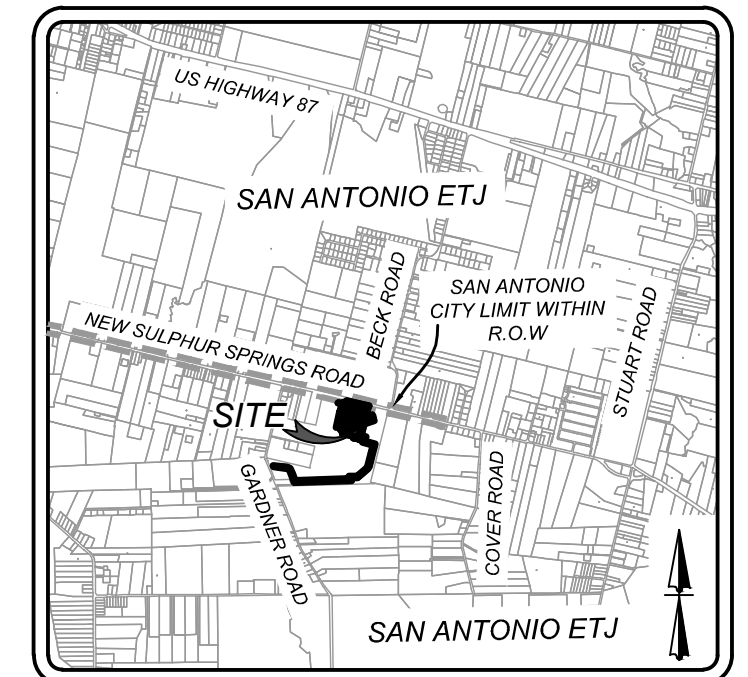
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**IMPORTANT NOTE:**

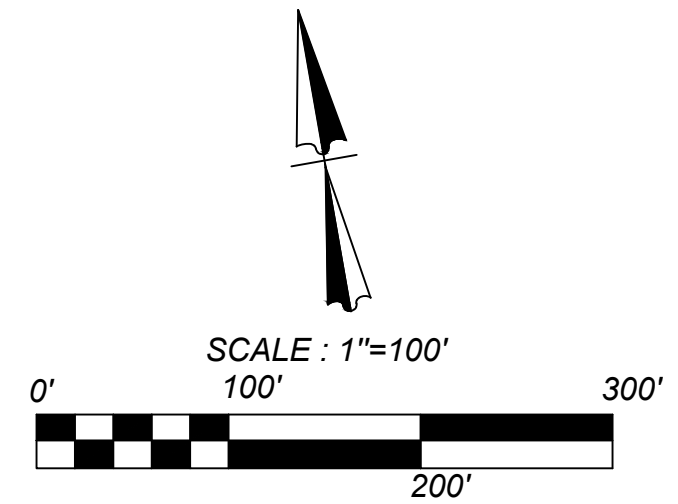
2 - MINIMUM - 1.5 CALIPER INCH TREES TO BE PLANTED PER LOT. A MEDIUM-LARGE AND LARGE CANOPY TREE IS DESIGNATED IN CITY OF SAN ANTONIO UNIFIED DEVELOPMENT CODE APPENDIX E.

**GRADING NOTE:**

A REVISED TREE PLAN WILL BE REQUIRED FOR FUTURE UNITS TO SHOW PROPOSED GRADING.



LOCATION MAP N.T.S.



**LEGEND**

- PROTECTED/HERITAGE TREES REMOVED
- PROTECTED/HERITAGE TREES PRESERVED
- PROTECTED/HERITAGE TREES EXEMPT
- ENERGY CONSERVATION TREE (SEE DETAIL ON THIS SHEET)
- RIPARIAN BUFFER TREES PRESERVED
- RIPARIAN BUFFER TREES REMOVED
- FEMA TREES PRESERVED
- FEMA TREES REMOVED
- FEMA 100 YR FLOODPLAIN LIMITS
- 30' RIPARIAN BUFFER LIMITS
- SAPPHIRE GROVE PHASE LIMIT (OVERALL PROJECT LIMITS FOR THIS TREE PRESERVATION PLAN)

**PHASE 1D**

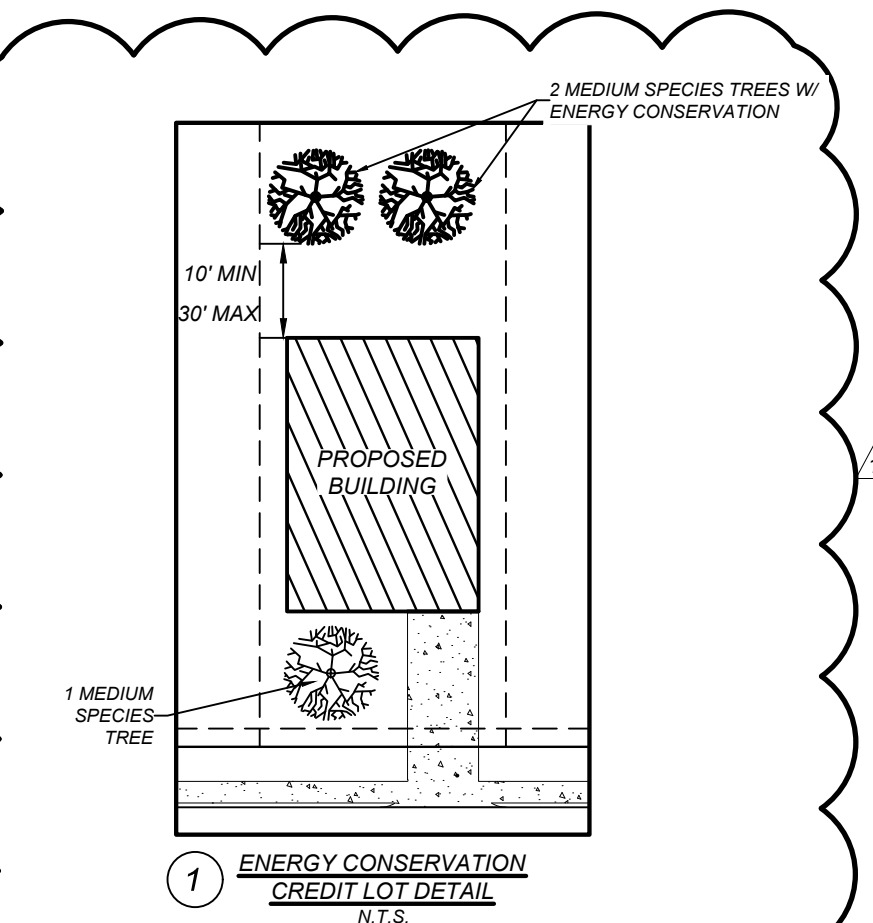
**PHASE 1B**

**PHASE 2A**

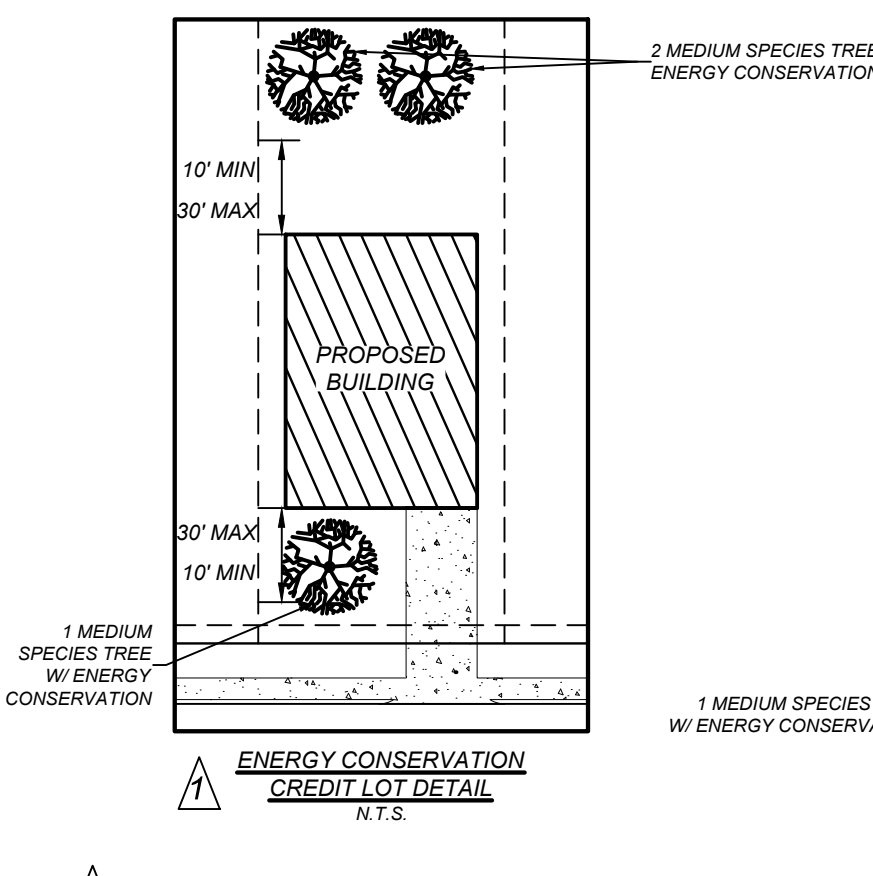
**PHASE 2B**

**PHASE 2C**

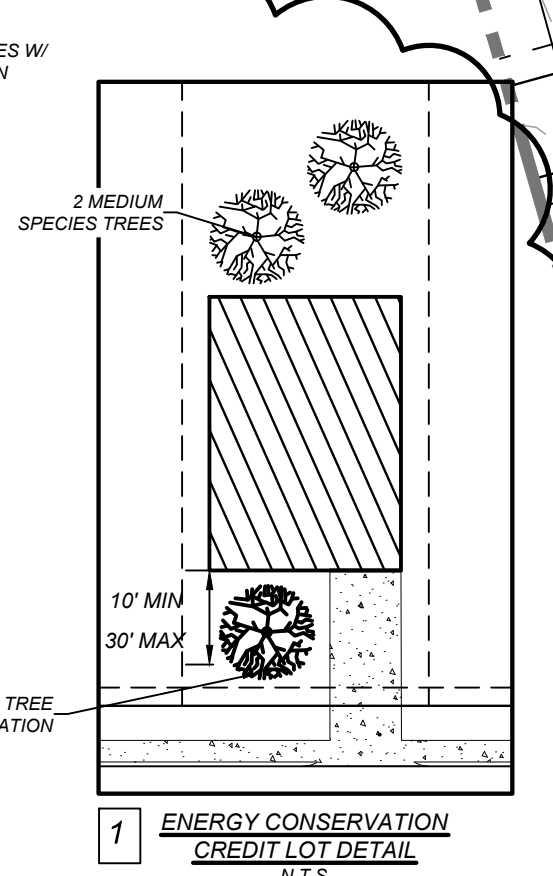
**PHASE 2D**



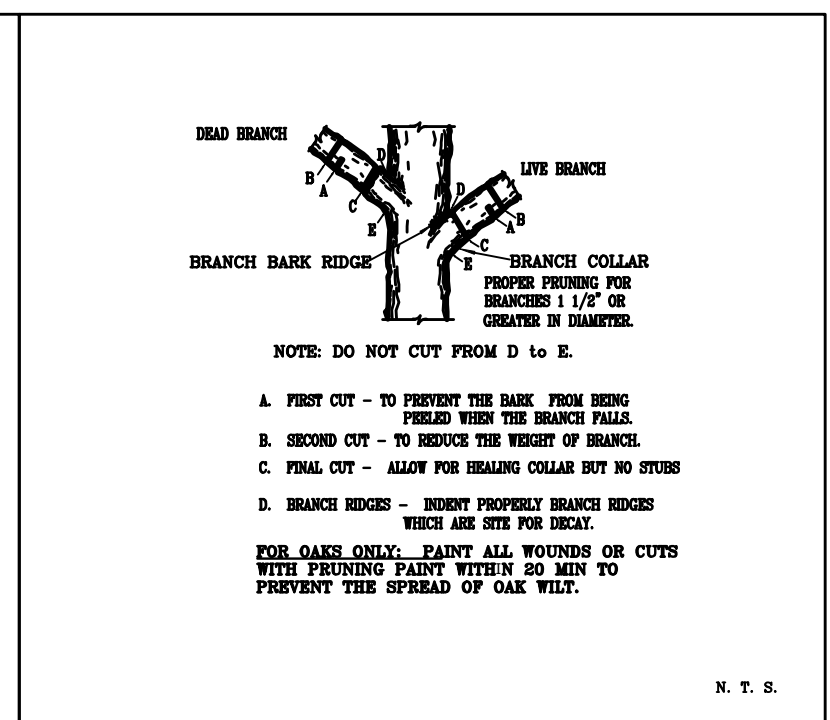
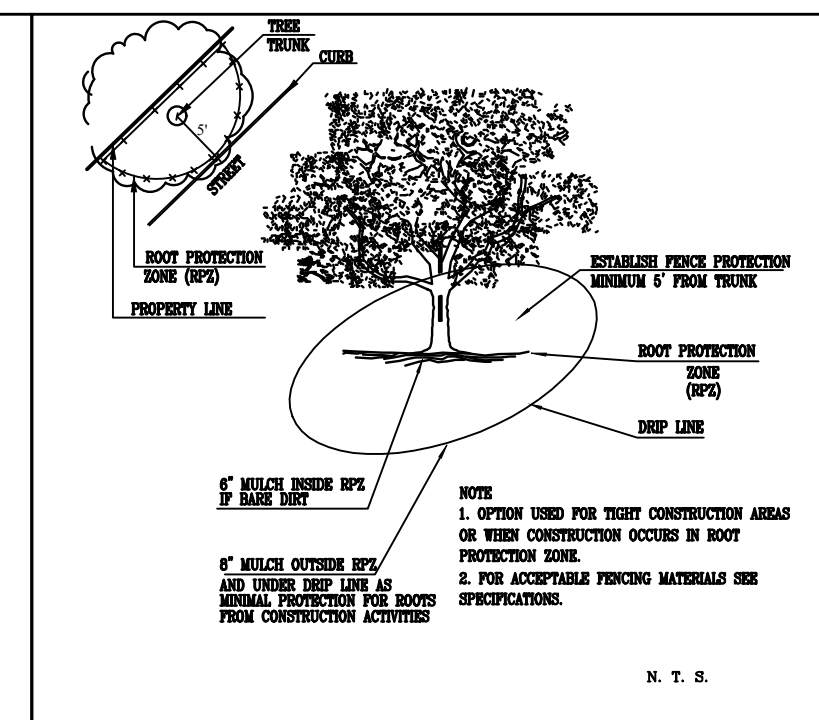
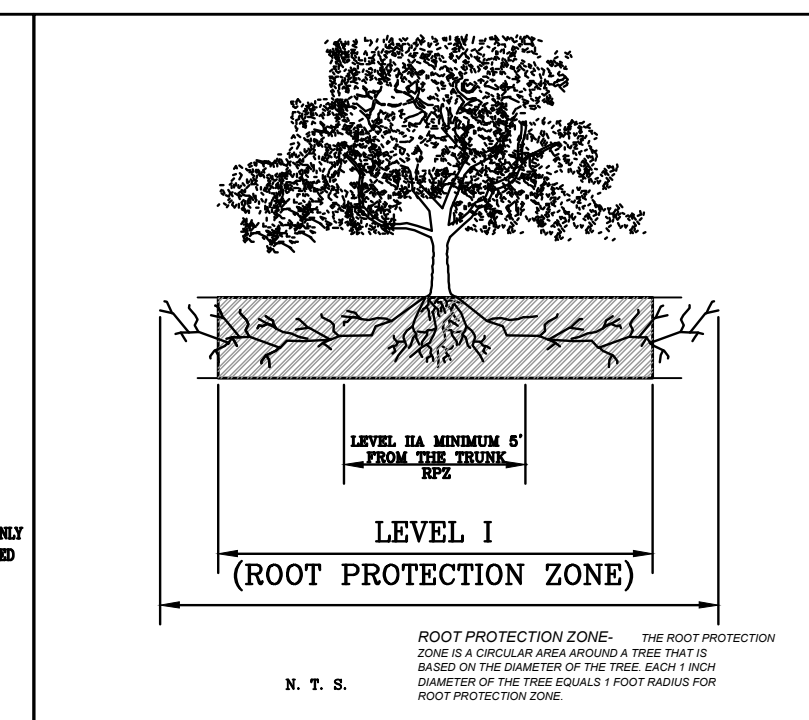
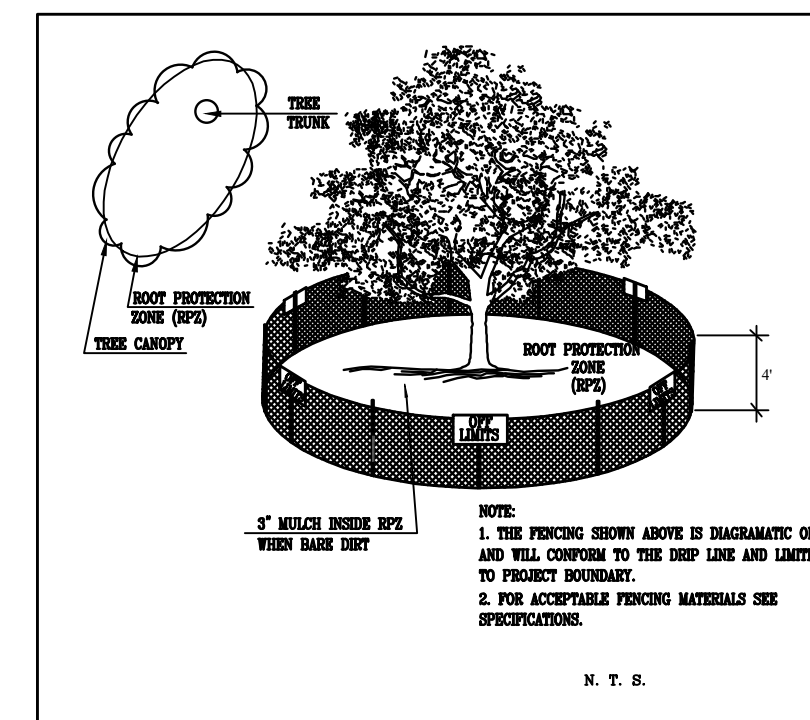
LOT NUMBERS WITH CIRCLE SHALL HAVE ONE (1) MEDIUM CANOPY TREE IN THE FRONT YARD NOT RECEIVING ENERGY CONSERVATION CREDIT AND TWO (2) MEDIUM CANOPY TREES IN THE BACKYARD WITHIN THE ENERGY CONSERVATION LIMITS. SEE DETAIL THIS SHEET. REFERENCE NOTE FOR MINIMUM CALIPER.



LOT NUMBERS WITH TRIANGLE SHALL HAVE ONE (1) MEDIUM CANOPY TREE IN THE FRONT YARD WITHIN THE ENERGY CONSERVATION LIMITS AND TWO (2) MEDIUM CANOPY TREES IN THE BACKYARD WITHIN THE ENERGY CONSERVATION LIMITS. SEE DETAIL THIS SHEET. REFERENCE NOTE FOR MINIMUM CALIPER.



LOT NUMBERS WITH SQUARE SHALL HAVE ONE (1) MEDIUM CANOPY TREE IN THE FRONT YARD WITHIN THE ENERGY CONSERVATION LIMITS AND TWO (2) MEDIUM CANOPY TREES IN THE BACKYARD NOT RECEIVING ENERGY CONSERVATION CREDIT. SEE DETAIL THIS SHEET. REFERENCE NOTE FOR MINIMUM CALIPER.



REVISIONS	ISSUE DATE
REVISIONS	08/24/2022
REVISIONS	10/27/2022

REVISIONS	ISSUE DATE
REVISIONS	08/24/2022
REVISIONS	10/27/2022

SAPPHIRE GROVE PHASE 3A  
BEXAR COUNTY, TEXAS  
TREE PRESERVATION PLAN (3 OF 8)  
PLAT NO. 21-11800689  
JOB NO. 314-39-06  
DATE: FEBRUARY 2022  
DRAWN: CHECKED: T  
SHEET NUMBER: EX-1.2

Date: Feb 28, 2023, 9:18am User ID: Aturgron  
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# PHASE 1C

# PHASE 1B

# PHASE 1D

# PHASE 2D

MATCHLINE "D" SEE SHEET EX-1.4

MATCHLINE "C" SEE SHEET EX-1.2

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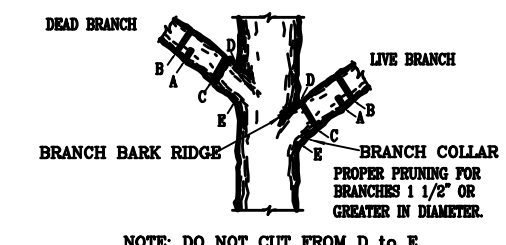
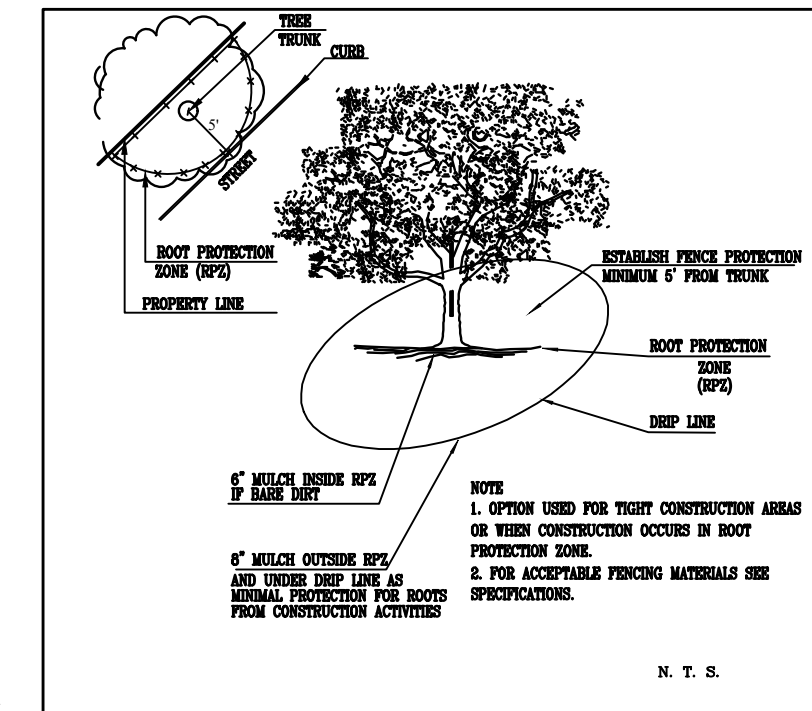
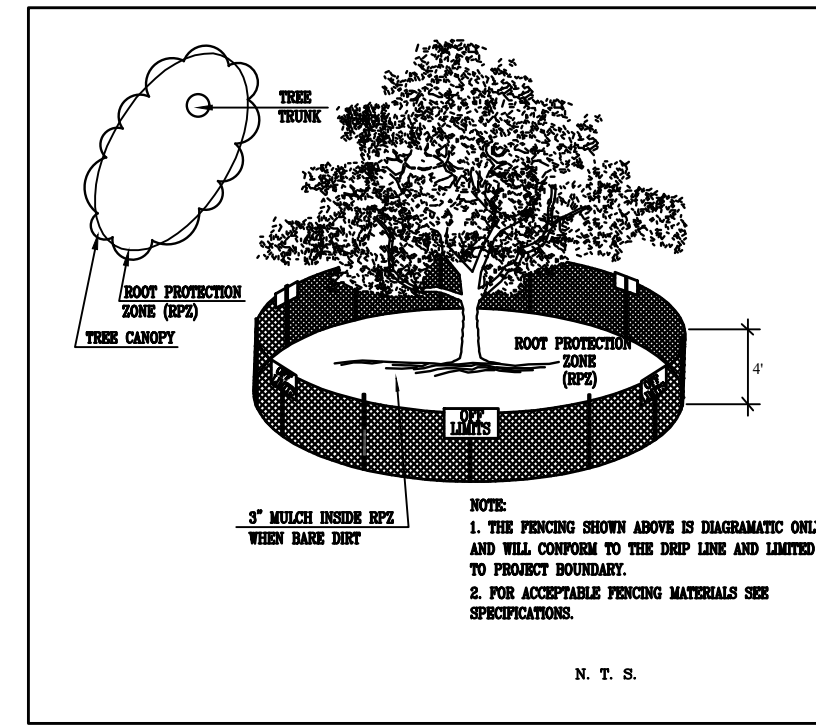
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### IMPORTANT NOTE:

2 - MINIMUM - 1.5 CALIPER INCH TREES TO BE PLANTED PER LOT. A MEDIUM-LARGE AND LARGE CANOPY TREE IS DESIGNATED IN CITY OF SAN ANTONIO UNIFIED DEVELOPMENT CODE APPENDIX E.

### GRADING NOTE:

A REVISED TREE PLAN WILL BE REQUIRED FOR FUTURE UNITS TO SHOW PROPOSED GRADING.



NOTE: DO NOT CUT FROM D TO E.

A. FIRST CUT - TO PREVENT THE BARK FROM BEING PULLED FROM THE TRUNK, CUT FROM THE TRUNK TO THE BRANCH COLLAR.

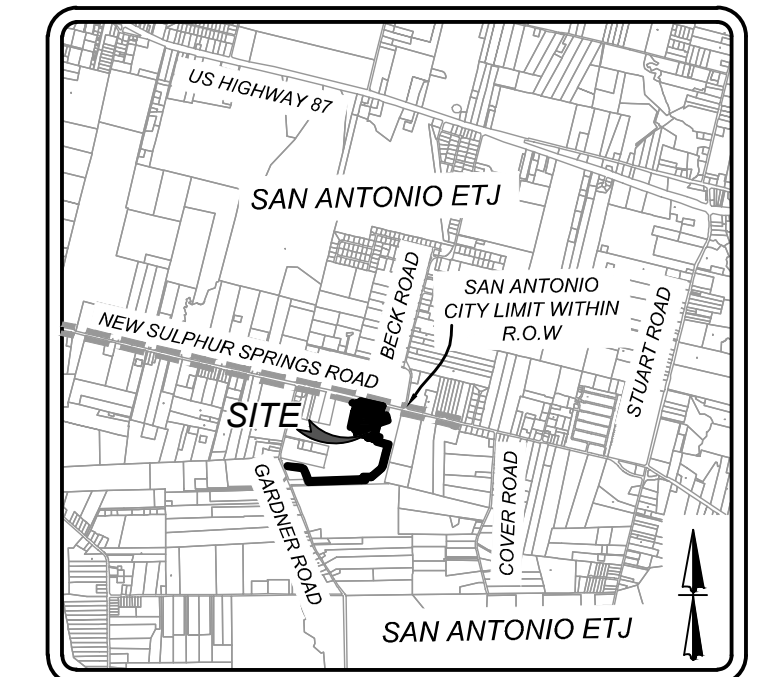
B. SECOND CUT - TO REDUCE THE WEIGHT OF BRANCHES.

C. FINAL CUT - ALLOW FOR BRANCH COLLAR TO HEAL.

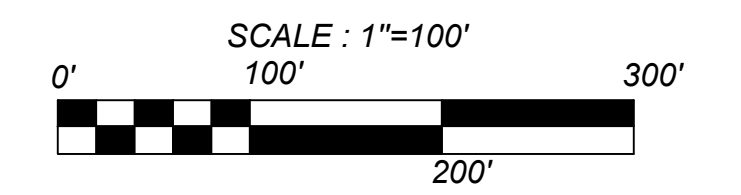
D. BRANCH REMOVAL - REMOVE PROPOSED BRANCH REMOVAL WHICH ARE NOT FOR REMOVAL.

FOR OAKS ONLY, PATCHY ALL WOUNDS OR CUTS WITH PROPER PATCHY PATCHING TO HELP TO PREVENT THE SPREAD OF OAK WILT.

N. T. S.

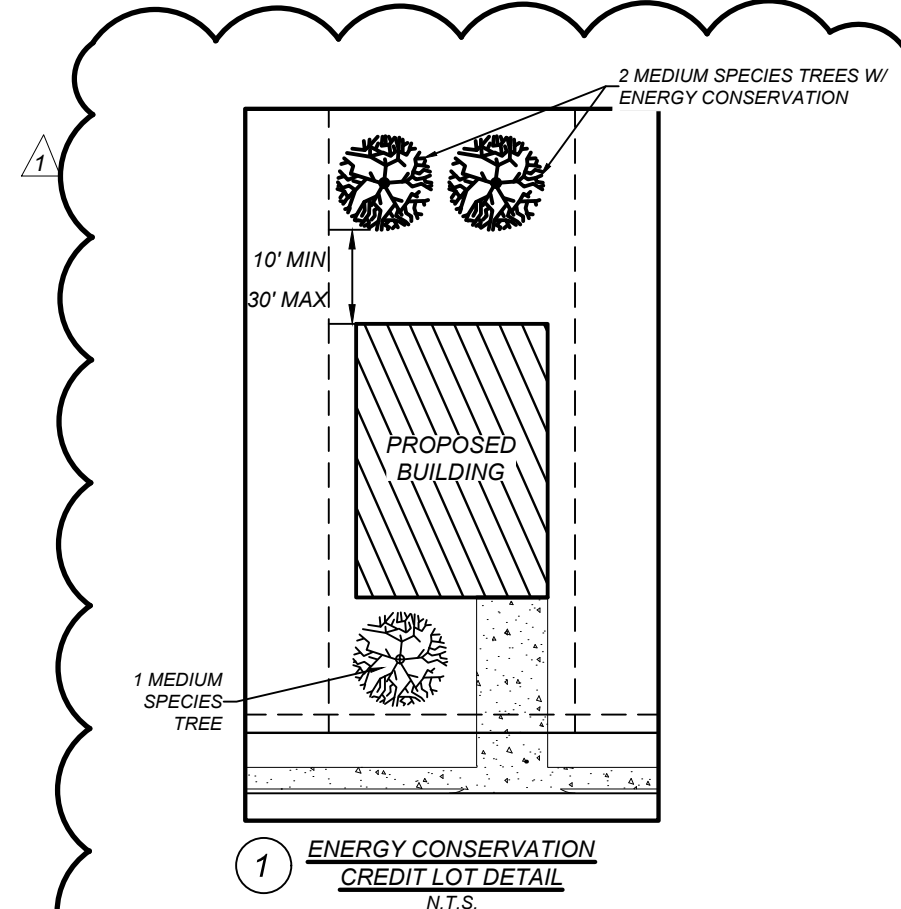


LOCATION MAP N.T.S.

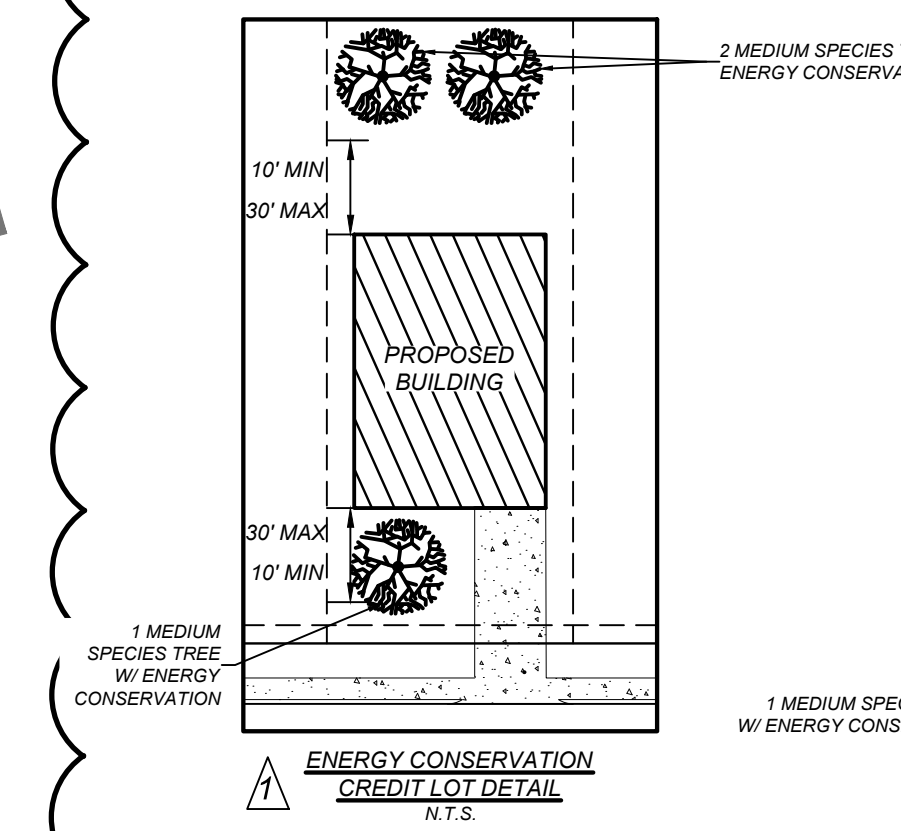


### LEGEND

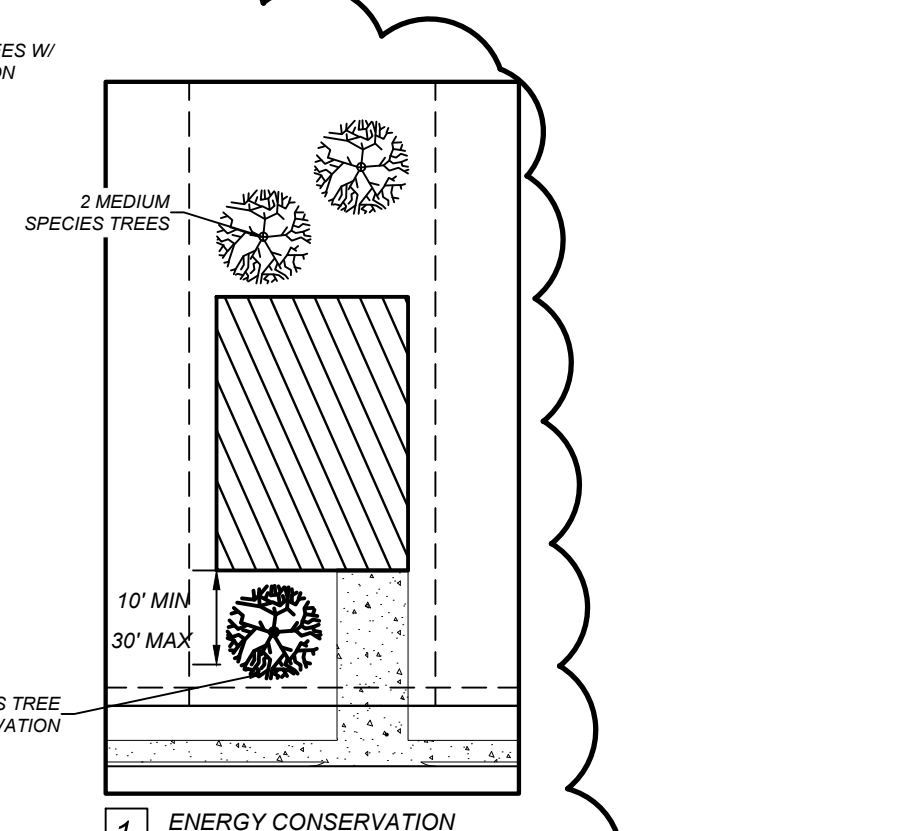
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- SAPPHIRE GROVE PHASE LIMIT (OVERALL PROJECT LIMITS FOR THIS TREE PRESERVATION PLAN)



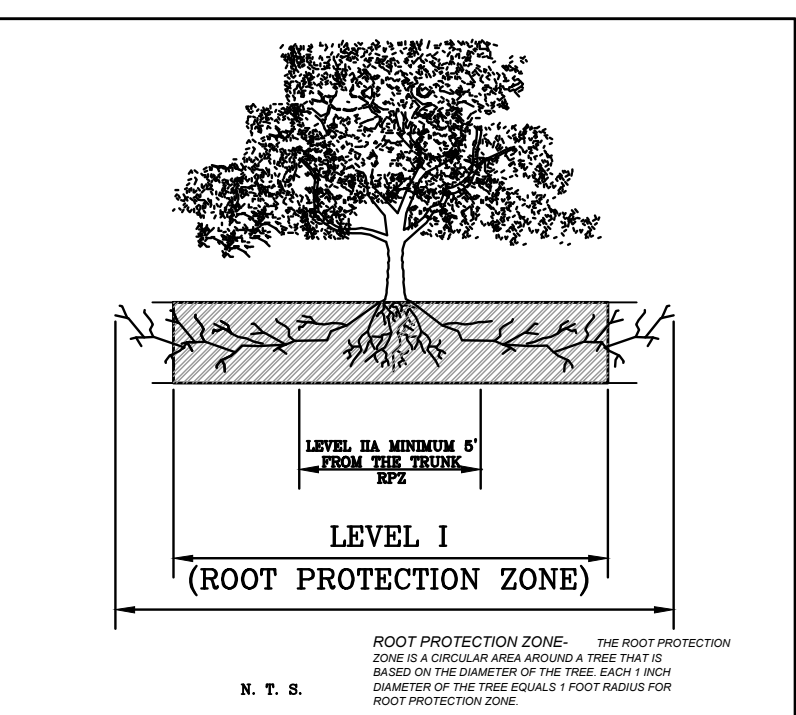
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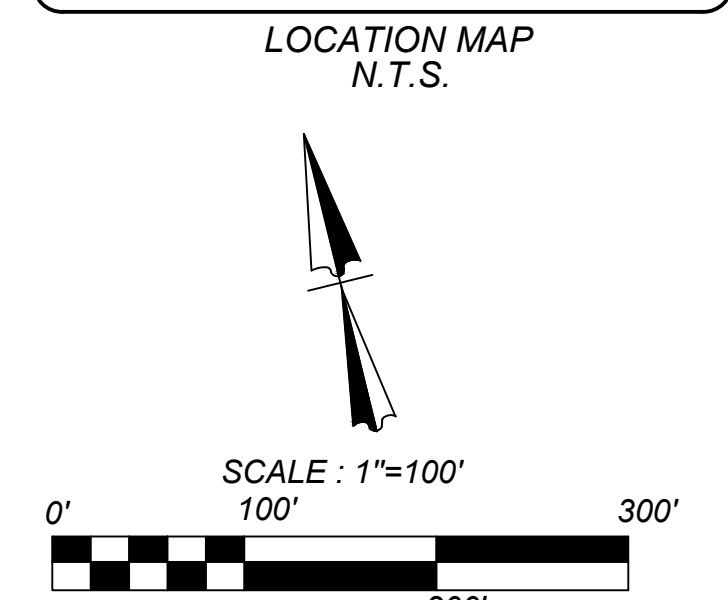
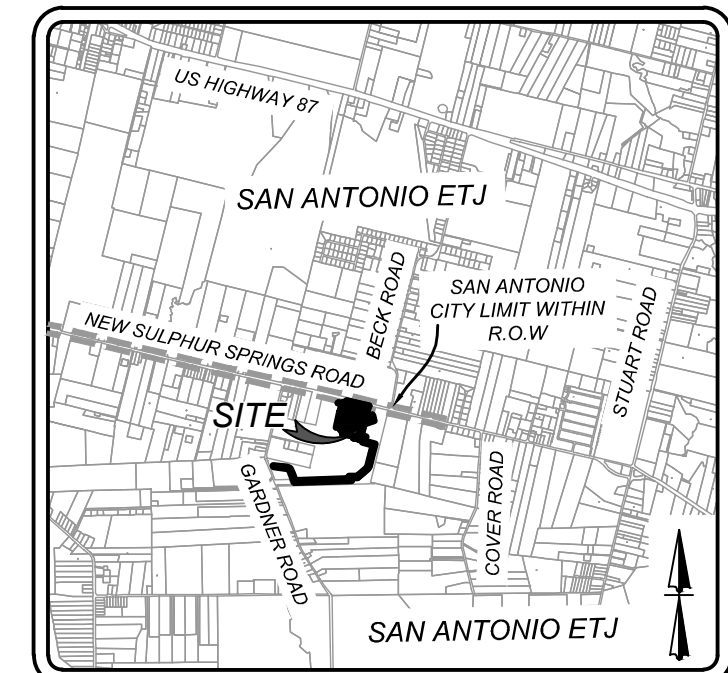
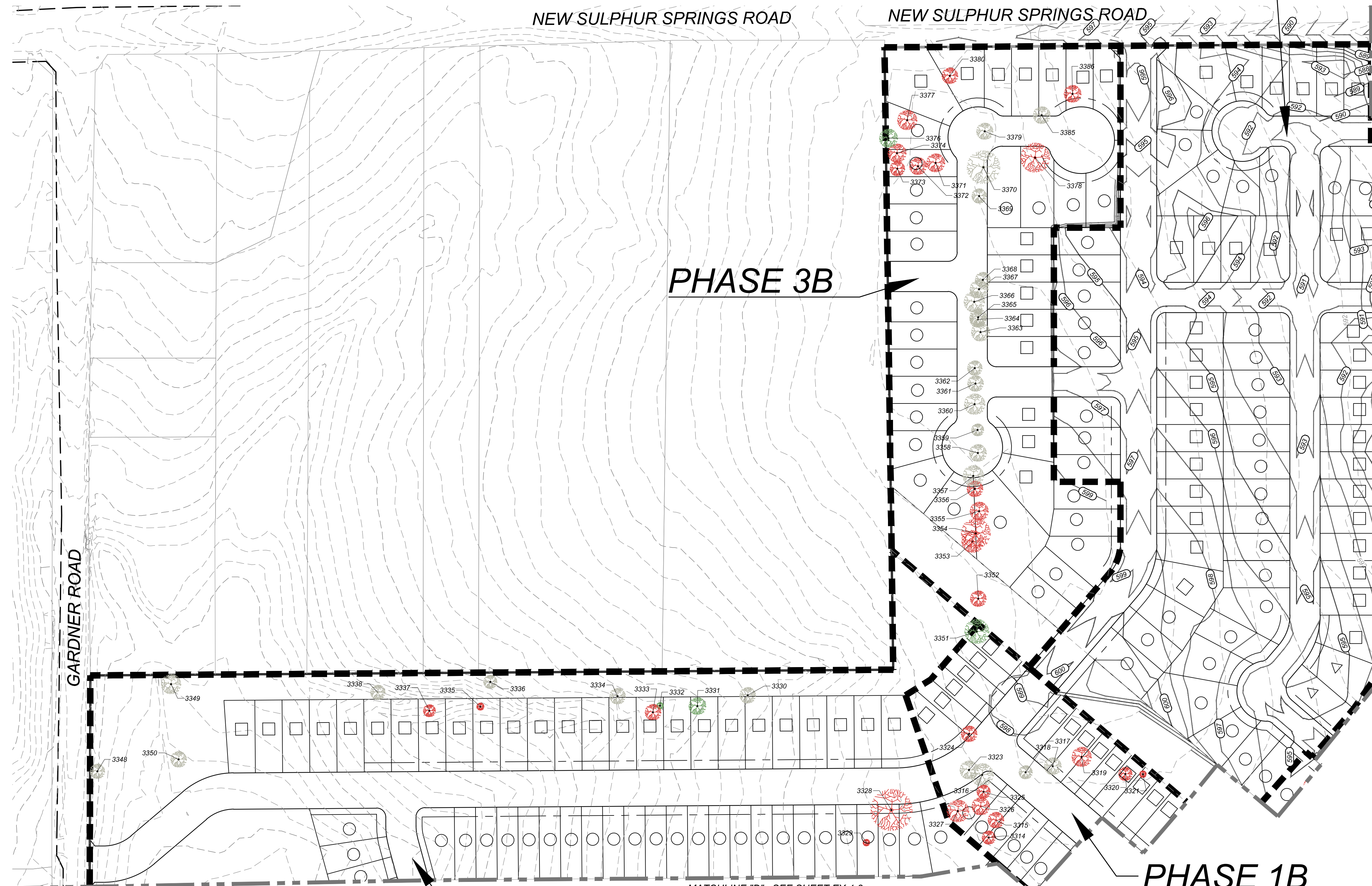
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REVISIONS	ISSUE DATE
REVISIONS	08/24/2022
REVISIONS	10/27/2022

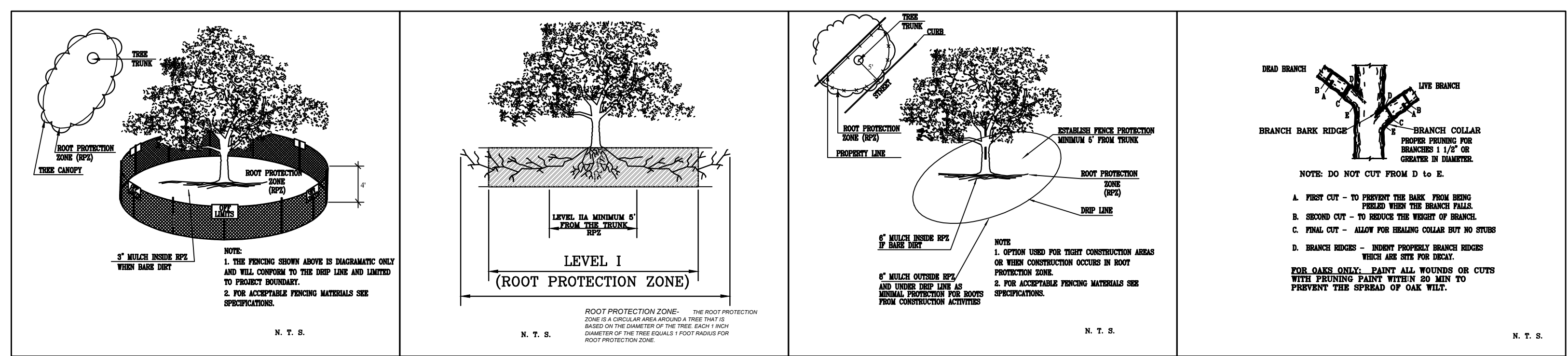
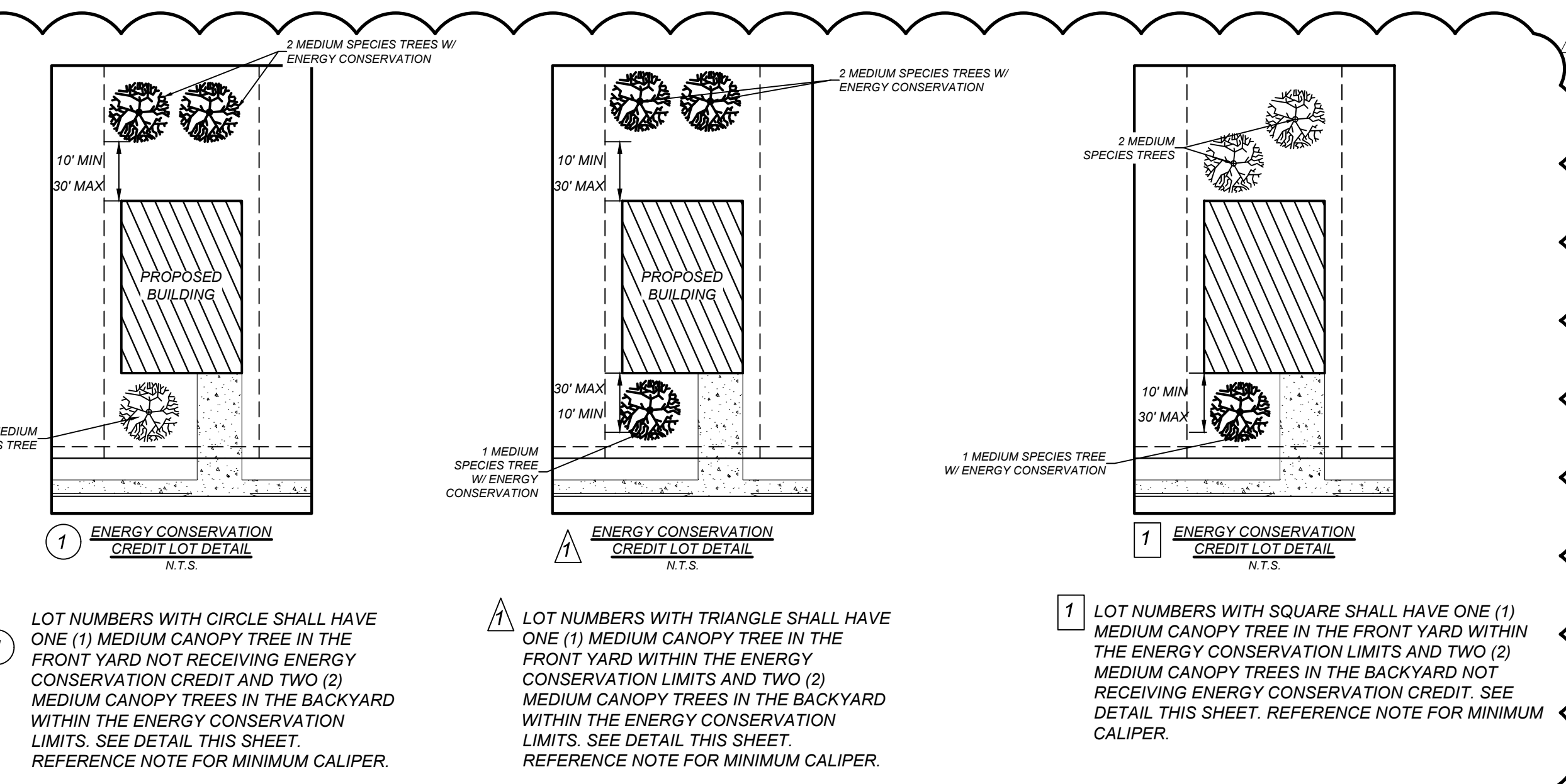


# PHASE 3A



- TREE PROTECTION NOTES**
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Date: Feb. 28, 2023, 9:18am User: ID: ATurgenon  
 File: N:\314\308\006\Design\CDM\TREES\TPO214308-Unit\_3A.dwg

**K&W ENGINEERS + SURVEYING**  
 Phone #: (210) 878-8444 • Fax #: (210) 878-8441  
 TBPE Firm #: 9513 • TBPE License #: 1012300

ISSUE DATE: 09/24/2022  
 REVISIONS: REVISIONS AND LOT DESIGNATIONS  
 CALCULATIONS AND LOT DESIGNATIONS  
 REVISIONS: REVISIONS AND LOT DESIGNATIONS  
 CALCULATIONS AND LOT DESIGNATIONS

**SAPPHIRE GROVE PHASE 3A**  
 BEXAR COUNTY, TEXAS

**TREE PRESERVATION PLAN (5 OF 8)**

PLAT NO. 21-11800689  
 JOB NO. 314-39-06  
 DATE: FEBRUARY 2022  
 DRAWN: CHECKED: T.E.  
 SHEET NUMBER: EX-1.4



Date: Feb 28, 2023, 9:12am User: ATurgeson  
 File: K:\14\39\06\Design\Civil\Trees\TIP214\_3906-Unit\_3A.dwg

SIGNIFICANT SPECIES (10.0" - 24.0") INVENTORY TABLE				
POINT	SPECIES	PRESERVED	REMOVED	FINAL CANOPY (SQFT)
1410	MSQ		12	
1411	MSQ		10	
1412	MSQ		14	
1413	MSQ		11	
1414	MSQ		10	
1422	MSQ		12	
1427	MSQ		11.5	
1434	MSQ		12	
1438	MSQ		11	
1440	MSQ		11	
1443	MSQ		10	
1444	MSQ		11	
1445	MSQ		11	
1448	MSQ		10	
1452	MSQ		11	
1453	MSQ		16	
1455	MSQ	12		550
1457	MSQ		17	
1459	MSQ		10	
1460	MSQ		14	
1461	MSQ		10	
1462	MSQ		10	
1463	MSQ		10.5	
1464	MSQ		15	
1470	MSQ		17	
1471	MSQ		13	
1480	MSQ		12	
1486	MSQ		11	
1487	MSQ		12	
1490	MSQ		15	
1491	MSQ		12	
1492	MSQ		11	
1493	MSQ		13	
1494	MSQ		10.5	
1496	MSQ		12	
1497	MSQ		21	
1498	MSQ		11	
1499	MSQ		10	
1500	MSQ		14	
1502	MSQ		14	
1504	MSQ		11.5	
1505	MSQ		12	
1507	MSQ	10		550
1515	MSQ		12	
1516	MSQ		11.5	
1517	MSQ		10	
1518	MSQ		11	
1519	MSQ	12		550
1522	MSQ	11.5		550
1523	MSQ		11	
1524	MSQ		14	
1525	MSQ		13	
1526	MSQ		15	
1527	MSQ		14	
1528	MSQ		11	
1530	MSQ		22	
1531	MSQ		20	
1537	MSQ		10	
1541	MSQ		10.5	
1545	MSQ		11	
1547	MSQ		18	
1548	MSQ		18	
1549	MSQ		14	
1550	MSQ		11	
1551	MSQ		23	
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1598	MSQ		10	
1601	MSQ		11	
1606	MSQ		17	
1607	MSQ		14	
1610	MSQ		12	
1611	MSQ		11	
1614	MSQ		16	
1616	MSQ		12.5	
1617	MSQ		12	
1618	MSQ		10	
1619	MSQ		17	
1620	MSQ		17	
1623	MSQ		11.5	
1625	MSQ		11.5	
1626	MSQ		16	
1628	MSQ		10	

SIGNIFICANT SPECIES (10.0" - 24.0") INVENTORY TABLE				
POINT	SPECIES	PRESERVED	REMOVED	FINAL CANOPY (SQFT)
1629	MSQ		12	
1637	MSQ		22	
1638	MSQ		18	
1639	MSQ		13	
1640	MSQ		11.5	
1641	MSQ		12	
1642	MSQ		16	
1644	MSQ		17.5	
1645	MSQ		12	
1666	MSQ		11.5	
1674	MSQ		10	
1679	MSQ		12	
1680	MSQ		16	
1683	MSQ		11	
1686	MSQ		10	
1695	HK		10	
1696	MSQ		14	
1698	LO		6	
1700	HK		10	
1701	MSQ		14	
1702	MSQ		13	
1704	MSQ		15	
1705	MSQ		12	
1709	MSQ		12	
1710	MSQ		11	
1716	MSQ		14	
1718	MSQ		11	
1719	MSQ		15.5	
1720	MSQ		11	
1721	MSQ		13.5	
1726	MSQ		16	
1727	MSQ		11	
1750	MSQ		11	
1751	MSQ		21	
1752	MSQ		11	
1758	MSQ		11	
1759	MSQ		11	
1760	MSQ		15	
1765	MSQ		15	
1772	MSQ		13	
1773	MSQ		14	
1774	MSQ		11	
1775	MSQ		17	
1776	MSQ		12	
1777	MSQ		10	
1778	MSQ		13.5	
1780	MSQ		11.5	
1781	MSQ		13	
1782	MSQ		18	
1792	MSQ		12.5	
1793	MSQ		14	
1794	MSQ		14	
1798	MSQ		13	
1803	MSQ		11	
1804	MSQ		12	
1807	MSQ		12	
1808	MSQ		15	
1809	MSQ		16	
1811	MSQ		11.5	
1814	MSQ		13.5	
1815	MSQ		14	
1816	MSQ		20	
1839	MSQ		10.5	
1840	MSQ		15.5	
1841	MSQ		15	
1842	MSQ		13	
1843	MSQ		15	
1844	MSQ		15	
1845	MSQ		13	
1848	MSQ		18	
1855	MSQ		12	
1856	MSQ		14	
1857	MSQ		13	
1858	MSQ		12	
1859	MSQ		18	
1860	MSQ		17	
1868	MSQ		10.5	
1869	MSQ		11	
1870	MSQ		14	
1875	MSQ		15	
1876	MSQ		10	
1877	MSQ		10	
1878	MSQ		13	
1879	MSQ		18	
1881	MSQ		14	
1882	MSQ		12	
1884	MSQ		16	
1886	MSQ		12	

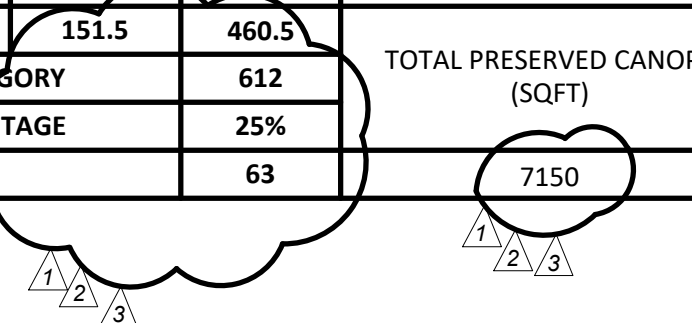
SIGNIFICANT SPECIES (10.0" - 24.0") INVENTORY TABLE				
POINT	SPECIES	PRESERVED	REMOVED	FINAL CANOPY (SQFT)
1887	MSQ		15	
1888	MSQ		11	
1889	MSQ		16	
1890	MSQ		12	
1891	MSQ		12	
1892	MSQ		10	
1893	MSQ		13.5	
1894	HK		11	
1901	MSQ		12	
1905	MSQ		17	
1906	MSQ		15	
1916	MSQ		10	
1917	MSQ		16	
1918	MSQ		18	
1919	MSQ		20	
1920	MSQ		18	
1921	MSQ		11	
1922	MSQ		13	
1923	MSQ		12	
1924	MSQ		15	
1925	MSQ		12	
1926	MSQ		19.5	
1939	MSQ	12		550
1950	MSQ		13	
1951	MSQ		17	
1952	MSQ		12	
1953	MSQ		16	
1955	MSQ		12	
1956	MSQ		16	
1957	MSQ		14	
1958	MSQ	16		550
1960	MSQ		11	
1963	MSQ	14		550
1993	MSQ		11	
1994	MSQ		22	
1995	MSQ		13	
1996	MSQ		18	
1997	MSQ		11	
3001	MSQ		11	
3002	MSQ		11	
3004	MSQ		13	
3005	MSQ	12		550
3006	MSQ	15		550
3007	MSQ		16	
3008	MSQ		12	
3014	MSQ		22	
3020	MSQ		12	
3021	MSQ		10	
3045	MSQ		11	
3046	MSQ	10		550
3048	MSQ	14		550
3050	MSQ	10		550
3051	MSQ	11		550
3052	MSQ	22		550
3053	MSQ		13	
3054	MSQ	11		550
3055	MSQ	16		550
3057	MSQ	15		550
3058	MSQ	13		550
3059	MSQ	15		550
3060	MSQ		15	
3061	MSQ		10	
3062	MSQ		20	
3063	LO		10	
3064	WILLOW		11	
3065	LO		11.5	
3066	WILLOW		18	
3079	MSQ	15		550
3080	MSQ	16		550
3081	MSQ	17		550
3082	MSQ	15		550
3085	MSQ	10		550
3086	MSQ	11		550
3087	MSQ	11		550
3088	MSQ	10		550
3089	MSQ	14		550
3091	MSQ	12		550
3092	MSQ	12		550
3093	MSQ	11		550
3094	MSQ	11		550
3095	MSQ	12.5		550
3113	MSQ	12		550
3116	MSQ	13		550
3123	HK	10		875
3136	MSQ	14		550
3140	MSQ	13		550
3143	MSQ	11		550
3156	MSQ	11		550

SIGNIFICANT SPECIES (10.0" - 24.0") INVENTORY TABLE				
POINT	SPECIES	PRESERVED	REMOVED	FINAL CANOPY (SQFT)
3159	MSQ		10	
3160	MSQ		12	
3163	MSQ		13	
3165	MSQ		16	
3166	MSQ		11	
3167	MSQ		11.5	
3168	MSQ		11	
3169	HK		10.5	
3170	HK		15	
3171	HK		11	
3177	MSQ		12	
3178	MSQ		10	
3180	MSQ		11	
3181	MSQ		12	
3182	MSQ		12	
3183	MSQ		11.5	
3184	MSQ		13	
3185	MSQ		10	
3187	MSQ		17	
3188	MSQ		11	
3189	MSQ		13	
3190	MSQ		11	
3192	MSQ		12.5	
3193	MSQ		12	
3194	MSQ		11	
3198	HK		10	
3199	MSQ		12	
3201	MSQ		15	
3202	MSQ		13	
3203	MSQ	15		550
3206	MSQ		10	
3207	MSQ		10.5	
3209	MSQ		11	
3210	MSQ		12	
3211	MSQ		10.5	
3212	MSQ		11	
3222	MSQ		11	
3224	MSQ	18		550
3225	MSQ		11.5	
3226	MSQ	12.5		550
3227	MSQ		14	
3228	MSQ		15	
3229	MSQ		10	
3230	MSQ		14	
3231	MSQ		11.5	
3234	MSQ		15	
3236	MSQ		19	
3237	MSQ		10	
3238	MSQ		12	
3239	MSQ		16	
3243	MSQ		15	
3244	MSQ		11	
3245	MSQ		11	
3246	MSQ		12.5	
3247	MSQ		11	
32				



SIGNIFICANT SPECIES (SMALL SPECIES 5.0" - 12.0") INVENTORY TABLE				
POINT	SPECIES	PRESERVED	REMOVED	FINAL CANOPY (SQFT)
1418	PER		6	
1419	CND		6	
1421	CND		5	
1439	CND		5.5	
1446	CND		5	
1479	PER		5	
1489	PER		7	
1503	CND		5	
1506	CND		7	
1529	CND		8	
1552	CND		5	
1580	PER		5.5	
1597	CND		5	
1605	PER		5	
1622	PER		5	
1624	CND		5	
1643	PER		5	
1651	PER		5.5	
1652	PER		5	
1684	CND		5	
1685	PER		5	
1692	CND		5	
1694	CND		7	
1697	PER		8	
1699	PER		5	
1703	CND		5	
1717	CND		7	
1728	PER		5	
1737	PER		6	
1753	PER		7	
1754	CND		6.5	
1755	CND		5.5	
1756	PER		5	
1757	CND		6.5	
1771	PER		5	
1779	PER		7	
1783	CND		5	
1797	CND		7.5	
1810	PER		5	
1812	PER		5	
1813	PER		5.5	
1825	PER	5		275
1880	PER		5	
1883	CND		7.5	
1885	CND		5	
1927	PER		5	
1928	PER		5	
1954	CND		5	
1959	CND		5	
1992	CND		6	
3003	CND	5		275
3013	CND		5	
3015	PER		5	
3016	CND		7.5	
3044	CND	5		275
3056	CND	8		275
3078	CND	5.5		275
3090	CND	6		275
3112	CND		5	
3114	CND	5		275
3115	CND	7		275
3117	CND	6		275
3118	CND	5		275
3119	CND	7		275
3120	PER		5	
3122	PER	5.5		275
3124	CND	6		275
3131	CND	5		275
3132	PER	5		275
3133	PER	6.5		275
3134	CND	6		275
3135	PER	7		275
3137	PER	5		275
3138	PER		5.5	
3139	CND		7	
3141	PER	5		275
3142	CND	6		275
3144	CND	5		275
3145	CND	6		275
3146	CND	5.5		275
3155	CND	8		275
3158	PER		5.5	
3161	PER		7	
3162	PER		6	
3164	PER		5.5	
3191	CND		5	
3200	PER		5	
3204	CND		6	

SIGNIFICANT SPECIES (SMALL SPECIES 5.0" - 12.0") INVENTORY TABLE				
POINT	SPECIES	PRESERVED	REMOVED	FINAL CANOPY (SQFT)
3205	CND		8	
3223	CND		5	
3235	CND		7	
3240	CND		5	
3241	CND		7	
3242	CND		5	
3248	CND		6	
3249	CND		5	
3250	PER		5	
3252	CND		5	
3258	CND		6	
3259	CND		5	
3261	CND		5	
3294	CND		5	
3295	PER		7	
3321	CND		5.5	
3329	CND		5.5	
3332	PER	5.5		275
3335	CND		6	
SUB TOTAL INCHES		151.5	460.5	
TOTAL INCHES BY CATEGORY			612	
PRESERVATION PERCENTAGE			25%	
MITIGATION REQUIRED			63	
				TOTAL PRESERVED CANOPY (SQFT)
				7150



EXEMPT TREES INVENTORY TABLE		
POINT	SPECIES	SIZE
1405	MSQ	13
1406	MSQ	24
1407	MSQ	11
1408	PER	5
1409	MSQ	12
1415	MSQ	11
1416	MSQ	13
1417	MSQ	12
1423	MSQ	12
1424	CND	5
1425	PER	5
1426	PER	5
1428	MSQ	10
1429	MSQ	11
1430	MSQ	11
1431	MSQ	13
1432	MSQ	14.5
1433	MSQ	11
1435	MSQ	13
1436	MSQ	11
1437	MSQ	12
1441	MSQ	15
1442	MSQ	12
1447	MSQ	12
1449	MSQ	12
1450	CND	5
1451	MSQ	12
1454	MSQ	12
1465	MSQ	15
1466	MSQ	10
1467	MSQ	10.5
1468	MSQ	11
1472	MSQ	14
1473	MSQ	16
1474	PER	5
1475	MSQ	10
1476	PER	5
1477	MSQ	11
1478	MSQ	12
1481	MSQ	15
1482	MSQ	10
1483	MSQ	22
1484	MSQ	11
1485	CND	5
1488	MSQ	12.5
1495	MSQ	12
1501	MSQ	11
1508	MSQ	13
1509	MSQ	20.5
1510	MSQ	13
1511	PER	5
1512	MSQ	10.5
1513	PER	5
1514	MSQ	12.5
1520	MSQ	13
1521	MSQ	12.5
1532	MSQ	11
1533	MSQ	22
1534	MSQ	12
1535	CND	5.5
1536	MSQ	10
1538	MSQ	15
1539	MSQ	17
1540	MSQ	13.5
1542	MSQ	13.5
1543	MSQ	17
1544	MSQ	10
1546	MSQ	14.5
1556	MSQ	13
1557	MSQ	10
1558	MSQ	10.5
1559	MSQ	12
1561	MSQ	10
1562	MSQ	12
1563	MSQ	16
1564	MSQ	12
1566	MSQ	14.5
1567	MSQ	15
1568	MSQ	16
1569	MSQ	18
1570	MSQ	10
1571	CND	5
1572	MSQ	14
1573	MSQ	10.5
1575	CND	6
1577	PER	5.5
1578	MSQ	13
1579	MSQ	10

EXEMPT TREES INVENTORY TABLE		
POINT	SPECIES	SIZE
1581	MSQ	12
1582	CND	8
1583	CND	5
1584	MSQ	17
1585	MSQ	10
1586	MSQ	13.5
1587	PER	5
1588	CND	7.5
1589	PER	5
1590	MSQ	11
1591	MSQ	12
1592	PER	6
1593	PER	5.5
1594	MSQ	13.5
1595	PER	5.5
1596	MSQ	11.5
1599	MSQ	11
1600	MSQ	10
1602	MSQ	13
1603	MSQ	11
1604	MSQ	10
1608	MSQ	11
1609	MSQ	14
1612	MSQ	12
1613	MSQ	14
1615	MSQ	13
1621	PER	5.5
1630	MSQ	12
1631	MSQ	12.5
1632	MSQ	11
1653	CND	5.5
1654	CND	6.5
1655	MSQ	13.5
1656	MSQ	12
1657	CND	5.5
1658	MSQ	10
1659	MSQ	12.5
1660	MSQ	12
1661	MSQ	11
1662	CND	5
1663	PER	5
1664	LO	16
1667	PER	5
1668	CND	5
1669	MSQ	10.5
1670	MSQ	15
1671	MSQ	11
1672	MSQ	12
1673	CND	6.5
1675	MSQ	12
1676	MSQ	10
1677	MSQ	16
1681	MSQ	11
1682	MSQ	10
1687	CND	6
1688	MSQ	10
1689	MSQ	10
1690	MSQ	13
1691	MSQ	16
1693	CND	5
1706	MSQ	11
1707	MSQ	10.5
1708	MSQ	11
1712	MSQ	18
1713	PER	6
1714	CND	5
1715	MSQ	11
1722	CND	5
1723	CND	6.5
1724	MSQ	15
1725	MSQ	10
1729	MSQ	14
1730	MSQ	17
1731	PER	5.5
1732	CND	5.5
1733	MSQ	13
1734	MSQ	12
1735	PER	5
1736	CND	5.5
1738	CND	7
1739	PER	5.5
1740	CND	5
1741	MSQ	12
1742	MSQ	11
1743	MSQ	13.5
1744	CND	5
1745	PER	5.5
1746	CND	5

EXEMPT TREES INVENTORY TABLE		
POINT	SPECIES	SIZE
1747	CND	5.5
1748	MSQ	20
1749	MSQ	20
1761	MSQ	11
1762	PER	5
1763	MSQ	18
1764	MSQ	10
1766	MSQ	16
1767	CND	6.5
1768	MSQ	11
1769	MSQ	13
1770	MSQ	20.5
1784	MSQ	12.5
1785	MSQ	17
1786	MSQ	11
1787	MSQ	10.5
1788	MSQ	13
1789	CND	5
1790	PER	5.5
1791	MSQ	14
1795	MSQ	12
1796	MSQ	13
1799	MSQ	13
1800	MSQ	12
1801	MSQ	16
1802	MSQ	11.5
1805	MSQ	12
1806	MSQ	11
1817	MSQ	21
1818	MSQ	16.5
1819	MSQ	25
1820	MSQ	12
1821	PER	5
1822	MSQ	24
1823	MSQ	12
1824	MSQ	11
1826	MSQ	18
1827	MSQ	11
1828	MSQ	13
1829	MSQ	11
1830	MSQ	11
1831	MSQ	11
1832	MSQ	12
1833	MSQ	14
1834	MSQ	10
1835	MSQ	16
1836	MSQ	22
1837	MSQ	18
1838	MSQ	16
1846	MSQ	12
1847	MSQ	11
1849	MSQ	18
1850	MSQ	15
1851	MSQ	13
1852	MSQ	10
1853	MSQ	12
1854	MSQ	20
1861	MSQ	12
1862	MSQ	13
1863	MSQ	13
1864	PER	5
1865	MSQ	20
1866	PER	5
1867	MSQ	10.5
1871	PER	5
1872	PER	5
1873	MSQ	12
1874	MSQ	10.5
1895	MSQ	14
1896	MSQ	15
1897	MSQ	15
1898	MSQ	11
1899	MSQ	12
1900	MSQ	10
1902	MSQ	13.5
1903	MSQ	11
1904	MSQ	13
1907	MSQ	12
1908	MSQ	10
1909	PER	6
1910	MSQ	17
1911	MSQ	17
1912	MSQ	11
1913	MSQ	13
1914	MSQ	13.5
1915	MSQ	12
1929	MSQ	16
1930	MSQ	18

EXEMPT TREES INVENTORY TABLE		
POINT	SPECIES	SIZE
1931	MSQ	15
1932	CND	6
1933	MSQ	14
1934	MSQ	17
1935	MSQ	13



FEMA INVENTORY TABLE			
POINT	SPECIES	PRESERVED	REMOVED
1634	MSQ		13
1947	MSQ		15
1948	MSQ		11
1961	MSQ		20
1965	MSQ		17.5
1975	MSQ		22
1977	MSQ		10
1980	MSQ		19
1984	MSQ		18
1990	MSQ	12.5	
3032	MSQ		12.5
3035	HK		11
3036	HK	10	
3068	WILLOW		19
3071	MSQ		15
3072	MSQ		14
3073	MSQ		12
3076	MSQ	14	
3098	MSQ		10.5
3107	MSQ		13
3108	MSQ	15	
3109	MSQ	11	
SUB TOTAL INCHES		62.5	252.5
TOTAL INCHES BY CATEGORY			315
PRESERVATION PERCENTAGE			20%
MITIGATION REQUIRED			190

RIPARIAN BUFFER INVENTORY TABLE				
POINT	SPECIES	PRESERVED	REMOVED	FINAL CANOPY (SQFT)
1633	MSQ		10	
1635	MSQ		18	
1636	MSQ		11.5	
1646	HK		14.5	
1647	HK		14.5	
1648	HK		11.5	
1942	MSQ		11	
1945	MSQ		14	
1949	MSQ		12	
1964	MSQ	10		550
3030	MSQ		11	
3031	MSQ		13	
3033	MSQ		16	
3034	MSQ		12.5	
3037	HK	10		875
3038	MSQ	13		550
3039	HK	10		875
3041	MSQ	10.5		550
3042	MSQ	10		550
3043	MSQ	14		550
3067	WILLOW		21	
3077	MSQ	13		550
3083	MSQ	13		550
3084	MSQ	12		550
3096	MSQ		14	
3105	MSQ	16		550
3110	MSQ	12		550
SUB TOTAL INCHES		143.5	204.5	
TOTAL INCHES BY CATEGORY			348	TOTAL PRESERVED CANOPY (SQFT)
PRESERVATION PERCENTAGE			41%	
MITIGATION REQUIRED			135	7250

SMALL SPECIES FEMA INVENTORY TABLE			
POINT	SPECIES	PRESERVED	REMOVED
1962	CND		5
1973	PER		5
1974	PER		6
1976	PER		10
1978	PER		5.5
1979	PER		5
1981	PER		5.5
1982	PER	5.5	
1983	CND		6
1985	PER		5
1986	PER		5.5
1987	PER		5
1989	PER		6
1991	PER		5
3074	PER		5.5
3075	CND		5.5
3097	CND		5.5
3100	PER	5	
3101	PER	5	
3102	PER		6.5
3103	CND		5
3104	PER		5
3106	PER		5
SUB TOTAL INCHES		15.5	112.5
TOTAL INCHES BY CATEGORY			128
PRESERVATION PERCENTAGE			12%
MITIGATION REQUIRED			87

SMALL SPECIES RIPARIAN BUFFER INVENTORY TABLE				
POINT	SPECIES	PRESERVED	REMOVED	FINAL CANOPY (SQFT)
1649	PER		5	
1944	PER		5	
1988	CND	6		275
3040	CND	6.5		275
3099	PER		5	
3111	CND		5.5	
3197	PER		8	
SUB TOTAL INCHES		12.5	28.5	
TOTAL INCHES BY CATEGORY			41	TOTAL PRESERVED CANOPY (SQFT)
PRESERVATION PERCENTAGE			30%	
MITIGATION REQUIRED			20	550

FEMA HERITAGE SPECIES (24.0 & UP") INVENTORY TABLE (3:1)				
POINT	SPECIES	PRESERVED	REMOVED	FINAL CANOPY (SQFT)
3069	WILLOW		29	
3070	WILLOW		26	
SUB TOTAL INCHES		0	55	
TOTAL INCHES BY CATEGORY			55	TOTAL PRESERVED CANOPY (SQFT)
PRESERVATION PERCENTAGE			0%	
MITIGATION REQUIRED (3:1)			165	0

TREE PRESERVATION CALCULATIONS		
<b>MITIGATION REQUIRED</b>		
<b>SIGNIFICANT SPECIES (10.0" - 24.0") INVENTORY TABLE</b>		
PRESERVATION PERCENTAGE	12%	
MITIGATION REQUIRED	1162	INCHES
<b>SIGNIFICANT SPECIES (SMALL SPECIES 5.0" - 12.0") INVENTORY TABLE</b>		
PRESERVATION PERCENTAGE	25%	
MITIGATION REQUIRED	63	INCHES
<b>FEMA INVENTORY TABLE</b>		
PRESERVATION PERCENTAGE	20%	
MITIGATION REQUIRED	190	INCHES
<b>SMALL SPECIES FEMA INVENTORY TABLE</b>		
PRESERVATION PERCENTAGE	12%	
MITIGATION REQUIRED	87	INCHES
<b>RIPARIAN BUFFER INVENTORY TABLE</b>		
PRESERVATION PERCENTAGE	41%	
MITIGATION REQUIRED	135	INCHES
<b>SMALL SPECIES RIPARIAN BUFFER INVENTORY TABLE</b>		
PRESERVATION PERCENTAGE	30%	
MITIGATION REQUIRED	20	INCHES
<b>HERITAGE SPECIES (24.0 &amp; UP") RESIDENTIAL (1:1)</b>		
PRESERVATION PERCENTAGE	11%	
MITIGATION REQUIRED	208	INCHES
<b>HERITAGE SPECIES (24.0 &amp; UP") RESIDENTIAL (3:1)</b>		
PRESERVATION PERCENTAGE	0%	
MITIGATION REQUIRED	101	INCHES
<b>FEMA HERITAGE SPECIES (24.0 &amp; UP") RESIDENTIAL (3:1)</b>		
PRESERVATION PERCENTAGE	0%	
MITIGATION REQUIRED	165	INCHES
<b>TOTAL MITIGATION REQUIRED</b>		<b>2130</b> INCHES
<b>MITIGATION PROVIDED</b>		
ADDITIONAL INCHES FROM UPSIZING REQUIRED TREES IN ALL LOTS (0.5 INCHES/TREE * 2 TREES/LOT * 1000 LOTS = 1000 INCHES)	1,000	INCHES
ADDITIONAL INCHES FROM THIRD TREE PLANTED IN 1000 LOTS (2 INCHES/TREE * 1000 TREES = 2000 INCHES)	2,000	INCHES
<b>MITIGATION PROVIDED</b>		<b>3000</b> INCHES
<b>TOTAL MITIGATION REQUIRED (NO ADDITIONAL MITIGATION REQUIRED)</b>		<b>(870)</b> INCHES

FINAL TREE CANOPY CALCULATIONS		
<b>PROJECT DATA</b>		
-PROJECT AREA (ACRES) (FLOODPLAIN AREA EXCLUDED)	167.54	ACRES
-FINAL TREE CANOPY REQUIREMENT	38%	
-FINAL TREE CANOPY AREA REQUIRED	2,773,256	SQFT
<b>EXISTING TREES</b>		
-EXISTING CANOPY	41,675	SQFT
<b>PROPOSED TREE CANOPY MITIGATION PLAN</b>		
<b>NO. OF LOTS RECEIVING ENERGY CONSERVATION CREDITS (DESIGNATED BY CIRCLE)</b>		
-NO. OF MEDIUM SPECIES TREES PER LOT RECEIVING ENERGY CREDITS	451	LOTS
-NO. OF MEDIUM SPECIES TREES PER LOT NOT RECEIVING ENERGY CREDITS	2	TREES
-NO. OF MEDIUM SPECIES TREES PER LOT NOT RECEIVING ENERGY CREDITS	1	TREES
TOTAL CANOPY PER LOT (1.5*(875+875))+875 = 3,500	3,500	SQFT
TOTAL CANOPY CIRCLE DESIGNATED LOTS	1,578,500	SQFT
<b>NO. OF LOTS RECEIVING ENERGY CONSERVATION CREDITS (DESIGNATED BY SQUARE)</b>		
-NO. OF MEDIUM SPECIES TREES PER LOT RECEIVING ENERGY CREDITS	435	LOTS
-NO. OF MEDIUM SPECIES TREES PER LOT NOT RECEIVING ENERGY CREDITS	1	TREES
-NO. OF MEDIUM SPECIES TREES PER LOT NOT RECEIVING ENERGY CREDITS	2	TREES
TOTAL CANOPY PER LOT (1.5*875)+2*875 = 3,062.5	3,062.5	SQFT
TOTAL CANOPY SQUARE DESIGNATED LOTS	1,332,188	SQFT
<b>NO. OF LOTS RECEIVING ENERGY CONSERVATION CREDITS (DESIGNATED BY TRIANGLE)</b>		
-NO. OF MEDIUM SPECIES TREES PER LOT RECEIVING ENERGY CREDITS	114	LOTS
-NO. OF MEDIUM SPECIES TREES PER LOT RECEIVING ENERGY CREDITS	1	TREES
-NO. OF MEDIUM SPECIES TREES PER LOT RECEIVING ENERGY CREDITS	2	TREES
TOTAL CANOPY PER LOT (1.5*875)+(1.5*875*2) = 3,937.5	3,937.5	SQFT
TOTAL CANOPY TRIANGLE DESIGNATED LOTS	448,875	SQFT
<b>PROPOSED TOTAL CANOPY PER TREE CANOPY PLAN</b>		<b>3,359,563</b> SQFT
<b>90% MATURE TOTAL CANOPY COVER</b>		<b>3,023,606</b> SQFT
<b>FINAL TOTAL CANOPY PER PLAN &amp; EXISTING CANOPY (90% MATURE + EXISTING)</b>		<b>3,065,281</b> SQFT
<b>TOTAL TREE CANOPY MITIGATION (NO ADDITIONAL CANOPY REQUIRED)</b>		<b>(292,025)</b> SQFT