

PLANT SCHEDULE

SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CALIPER	CONTAINER	HEIGHT	SPREAD
EXISTING TREE							
	EX	6	EXISTING TREE TO REMAIN	-			MIN. 8' SPREAD
LARGE CANOPY TREE							
	CE	10	CEDAR ELM ULMUS CRASSIFOLIA 2,000 S.F. CANOPY COVERAGE CREDIT	2-1/2 - 3" CAL.	B&B OR CONTAINER	11'-12' HT.	MIN. 8' SPREAD
	CO	9	CHINQUAPIN OAK QUERCUS MUEHLENBERGII 2,000 S.F. CANOPY COVERAGE CREDIT	2-1/2 - 3" CAL.	B&B OR CONTAINER	11'-12' HT.	MIN. 8' SPREAD
	LE	9	LACEBARK ELM ULMUS PARVIFOLIA 2,000 S.F. CANOPY COVERAGE CREDIT	2-1/2 - 3" CAL.	B&B OR CONTAINER	11'-12' HT.	MIN. 8' SPREAD
	LO	8	LIVE OAK QUERCUS VIRGINIANA 2,000 S.F. CANOPY COVERAGE CREDIT	2-1/2 - 3" CAL.	B&B OR CONTAINER	11'-12' HT.	MIN. 8' SPREAD
	RO	7	SHUMARD RED OAK QUERCUS SHUMARDII 2,000 S.F. CANOPY COVERAGE CREDIT	2-1/2 - 3" CAL.	B&B OR CONTAINER	11'-12' HT.	MIN. 8' SPREAD
	SM	4	SOUTHERN MAGNOLIA MAGNOLIA GRANDIFLORA 2,000 S.F. CANOPY COVERAGE CREDIT	2-1/2 - 3" CAL.	B&B OR CONTAINER	10'-11' HT.	MIN. 7' SPREAD
	TRO	4	TEXAS RED OAK QUERCUS BUCKLEYI 2,000 S.F. CANOPY COVERAGE CREDIT	2-1/2 - 3" CAL.	B&B OR CONTAINER	10'-11' HT.	MIN. 7' SPREAD
SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CONTAINER			
SHRUBS							
	AJ	28	ANDORRA JUNIPER JUNIPERUS HORIZONTALIS 'PLUMOSA COMPACTA'	5 GAL.			
	SA	29	ANTHONEY WATERER BUMALD SPIREA SPIRAEA X BUMALDA 'ANTHONY WATERER'	5 GAL.			
	AS	178	AUTUMN SAGE 'RASPBERRY' SALVIA GREGGII	5 GAL.			
	BLG	91	BLUE GRAMA BOUTELLOUA GRACILIS 'BLONDE AMBITION'	5 GAL.			
	CH	64	CARISSA HOLLY ILEX CORNUTA 'CARISSA'	5 GAL.			
	AA	14	CENTURY PLANT AGAVE AMERICANA	5 GAL.			
	DBH	156	DWARF BURFORD HOLLY ILEX CORNUTA 'BURFORDII NANA'	5 GAL.			
	GA	27	GLOSSY ABELIA ABELIA X GRANDIFLORA	5 GAL.			
	LM	139	LINDHEIMER'S MUHLY MUHLENBERGIA LINDHEIMERI	5 GAL.			
	ZEX	71	ZEXMENIA WEDELIA TEXANA	5 GAL.			
SYMBOL	CODE	QTY	COMMON / BOTANICAL NAME	CONTAINER			SPACING
GROUND COVERS							
	ETA	30,471 SF	EXISTING TURF AREA	-			
	CB	120,329 SF	CELEBRATION BERMUDAGRASS CYNODON DACTYLON 'CELEBRATION'	SOLID SOD OR HYDROMULCH			
MATERIALS							
	SHM	1,808	SHREDDED HARDWOOD MULCH	SQ. FT.			12" o.c.

PLANT MATERIAL NOTES AND SPECIFICATION

ALL TREES TO BE UNIFORM BY SPECIES WITH STRAIGHT TRUNKS, MATCHING CHARACTER, AND FULL BRANCHING STRUCTURE.
 ALL SHRUBS TO BE FULL AND UNIFORM BY SPECIES WITH MATCHING CHARACTER AND BRANCHING STRUCTURE.
 EACH PLANT VARIETY MUST COME FROM A SINGLE SOURCE SUPPLIER IN ORDER TO MAINTAIN A CONSISTENT APPEARANCE.
 ALL TREES, B&B AND CONTAINER TO BE NURSERY GROWN STOCK, WITH A WELL ESTABLISHED ROOT SYSTEM. COLLECTED SPECIMENS WILL BE REJECTED. CONTAINER GROWN PLANT MATERIAL MUST HAVE A WELL-ESTABLISHED ROOT SYSTEM REACHING THE SIDES OF THE CONTAINER, ABLE TO MAINTAIN A FIRM BALL WHEN THE CONTAINER IS REMOVED, BUT SHALL NOT HAVE EXCESSIVE ROOT GROWTH ENCIRCLING THE INSIDE OF THE CONTAINER.
 ALL PLANT MATERIAL SHALL COMPLY WITH THE MINIMUM REQUIREMENTS AS SET FORTH BY THE AMERICAN ASSOCIATION OF NURSERYMEN, TEXAS ASSOCIATION OF NURSERYMEN STANDARDS AND/OR AS STATED IN THE PLANT SCHEDULE, WHICHEVER IS MORE STRINGENT. ALL TREES MUST MEET ALL THREE SPECIFICATIONS IN THE PLANT LEGEND: CALIPER, HEIGHT AND SPREAD.

GENERAL UTILITY NOTES:

- ALL EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSIBLE, THE CONTRACTOR IS CAUTIONED THAT THE OWNER AND THE ENGINEER NEITHER ASSUMES NOR IMPLIES ANY RESPONSIBILITY FOR THE ACCURACY OF THIS DATA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY AFFECTED AND VERIFY THESE LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
- CALL 811 OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. MMA, INC. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

IRRIGATION NOTES:

- ALL LANDSCAPE PLANTINGS PROPOSED IN THIS PLAN WILL BE IRRIGATED WITH AN AUTOMATIC, UNDERGROUND IRRIGATION SYSTEM.
- IRRIGATION SYSTEM WILL BE EQUIPPED WITH A RAIN AND FREEZE SENSOR CAPABLE OF SHUTTING DOWN THE SYSTEM WHEN DICTATED BY RAINFALL OR FREEZING CONDITIONS.
- IRRIGATION SYSTEM DESIGN WILL MEET ALL REQUIREMENTS OF THE CITY OF ARLINGTON, THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY, AND ALL APPLICABLE PLUMBING CODES.
- IRRIGATION DESIGN DRAWINGS WILL BE SUBMITTED UNDER A SEPARATE COVER AT A LATER DATE FOR IRRIGATION PERMITTING.

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LANDSCAPE DATA

PROPOSED USE	RELIGIOUS FACILITY
PROPOSED ZONING	'E' COMMERCIAL
GROSS SITE AREA	392,787 SQ. FT. (9.02 ACRES)
BUILDING FOOTPRINT	20,001 SQ. FT.
NET SITE AREA	392,278 SQ. FT.

ELEMENT	REQUIREMENT	REQUIRED	PROVIDED
REQUIRED LANDSCAPE AREA	10% OF NET SITE AREA	372,786 @ 10% = 37,278 SQ. FT.	159,781 SQ. FT.
5 GALLON SHRUBS	1 PER 50 SQ. FT. OR REQUIRED LANDSCAPE AREA	37,278 / 50 = 746 (5) GALLON SHRUBS REQUIRED	798 (5) GALLON SHRUBS
LOCATION OF REQUIRED LANDSCAPE AREA	75% OF REQUIRED LANDSCAPE AREA MUST BE LOCATED IN THE FRONT YARD BETWEEN THE BUILDING AND THE R.O.W.	37,278 SQ. FT. @ 75% = 27,959 SQ. FT. OF LANDSCAPE REQUIRED IN FRONT YARD	80,478 SQ. FT. OF LANDSCAPE IN FRONT YARD
LOCATION OF REQUIRED 5 GALLON SHRUBS	75% OF 746 REQUIRED (5) GALLON SHRUBS MUST BE LOCATED IN FRONT YARD	746 @ 75% = 560 (5) GALLON SHRUBS MUST BE LOCATED IN THE FRONT YARD	766, (5) GALLON SHRUBS IN FRONT YARD

PRELIMINARY URBAN FORESTRY DATA

PROPOSED USE	RELIGIOUS FACILITY (COMMERCIAL REQUIREMENT)
PROPOSED ZONING	'E' COMMERCIAL
GROSS SITE AREA	392,787 SQ. FT. (9.02 ACRES)
BUILDING FOOTPRINT	35,102 SQ. FT.
NET URBAN FORESTRY AREA	357,685 S.F. SQ. FT.
TOTAL CANOPY COVERAGE REQUIRED	107,306 S.F. (30% OF NET SITE)
TOTAL CANOPY COVERAGE PROVIDED	114,000 S.F. (57 LARGE CANOPY TREES AT 2,000 S.F. CANOPY COVERAGE AREA PER TREE - (6) EXISTING AND (51) PROPOSED

HYDROMULCH PROCEDURE:

- REMOVE FOREIGN MATERIALS, WEEDS, AND UNDESIRABLE PLANTS AND THEIR ROOTS.
- WOOD FIBER: SUITABLE FOR USE WITH THE HYDRAULIC APPLICATION OF GRASS SEED AND FERTILIZER. SHALL CONSIST OF SPECIALLY PREPARED WOOD CELLULOSE FIBER, PROCESSED TO CONTAIN NO GROWTH - OR GERMINATION - INHIBITING FACTORS AND DYED AN APPROPRIATE COLOR TO FACILITATE VISUAL METERING OF APPLICATION OF THE MATERIALS. THE WOOD CELLULOSE SHALL BE PLACED IN THE SLURRY TANK WITH FERTILIZERS, GRASS SEEDS, WATER AND ANY OTHER APPROVED ADDITIVES. THE FIBERS IN THE MATERIAL SHALL BECOME UNIFORMLY SUSPENDED TO FORM A HOMOGENEOUS SLURRY. THIS COMBINATION SHALL BE ADEQUATELY BLENDED SO THAT WHEN HYDRAULICALLY SPRAYED ON THE GROUND, THE MATERIAL WILL FORM A BLOTTER-LIKE GROUND COVER IMPREGNATED UNIFORMLY WITH GRASS SEED AND WHICH, AFTER APPLICATION, WILL ALLOW THE ABSORPTION OF MOISTURE FROM RAINFALL OR MECHANICAL WATERING TO PERCOLATE TO THE UNDERLYING SOIL. SUPPLIERS SHALL BE PREPARED TO CERTIFY THAT LABORATORY AND FIELD TESTING OF THEIR PRODUCT HAS BEEN ACCOMPLISHED, AND THAT THEIR PRODUCT MEETS ALL THE FOREGOING REQUIREMENTS BASED UPON SUCH TESTING.
- SPECIAL MULCHING EQUIPMENT AND PROCEDURES: HYDRAULIC EQUIPMENT USED FOR THE APPLICATION OF FERTILIZER, SEED AND SLURRY OF PREPARED WOOD FIBER MULCH SHALL HAVE A BUILT-IN AGITATION SYSTEM WITH AN OPERATING CAPACITY SUFFICIENT TO AGITATE, SUSPEND, AND HOMOGENEOUSLY MIX A SLURRY CONTAINING UP TO FORTY (40) POUNDS OF FIBER PLUS A COMBINED TOTAL OF SEVENTY (70) POUNDS OF FERTILIZER SOLIDS FOR EACH ONE HUNDRED (100) GALLONS OF WATER. THE SLURRY DISTRIBUTION LINES SHALL BE LARGE ENOUGH TO PREVENT STOPPAGE. THE DISCHARGE LINE SHALL BE EQUIPPED WITH A SET OF HYDRAULIC-SPRAY NOZZLES, WHICH PROVIDE EVEN DISTRIBUTION OF THE SLURRY. THE TANK SHALL HAVE A MINIMUM CAPACITY OF ONE THOUSAND (1,000) GALLONS AND SHALL BE MOUNTED ON A TRAVELING UNIT WHICH MAY BE EITHER SELF-PROPELLED OR DRAWN WITH A SEPARATE UNIT WHICH WILL PLACE THE SLURRY TANK AND SPRAY NOZZLES WITHIN SUFFICIENT PROXIMITY TO THE AREAS TO BE SEED SO AS TO PROVIDE UNIFORM DISTRIBUTION WITHOUT WASTE. THE OWNER'S REPRESENTATIVE MAY AUTHORIZE EQUIPMENT WITH SMALLER TANK CAPACITY PROVIDED THAT THE EQUIPMENT HAS THE NECESSARY AGITATION SYSTEM AND SUFFICIENT PUMP CAPACITY TO SPRAY THE SLURRY IN A UNIFORM COAT.
- MULCH: THE APPLICATION OF THE WOOD CELLULOSE FIBER MULCH SLURRY SHALL BE MADE WITH THE HYDRAULIC EQUIPMENT SPECIFIED IN POINT "B" AND SHALL BE ACCOMPLISHED IMMEDIATELY UPON COMPLETION OF THE FINAL TILLAGE. THE WOOD CELLULOSE FIBER MULCH SHALL BE APPLIED AT THE RATE OF TWO THOUSAND (2,000) POUNDS PER ACRE (45 LB./1,000 S.F.) IN COMBINATION WITH WATER, FERTILIZER AND SEED AND SHALL BE SPRAYED OVER THE SOIL IN A UNIFORM COAT. THE MULCH SHALL BE KEPT MOIST, BY DAILY APPLICATION OF WATER IF NECESSARY, FOR A MINIMUM OF TEN (10) DAYS OR UNTIL THE SEEDS IN THE MULCH HAVE GERMINATED AND ROOTED IN THE SOIL.
- FERTILIZER: FERTILIZER SHALL BE 10-5-5 AND SHALL BE DISTRIBUTED UNIFORMLY AT THE RATE OF ONE THOUSAND (1,000) POUNDS PER ACRE (25 LB./1,000 S.F.) OVER THE AREAS INDICATED TO BE SEED. FERTILIZER SHALL BE APPLIED SIMULTANEOUSLY WITH SEED AND MULCH IN THE HYDRAULIC EQUIPMENT USING THE SPECIFIED RATE OF APPLICATION.
- MAINTAIN SEEDED AREAS UNTIL GRASS IS WELL ESTABLISHED AND EXHIBITS A VIGOROUS GROWING CONDITION FOR TWO CUTTINGS.
- RE-APPLICATION: THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE WILL DESIGNATE AREAS TO BE REPLANTED. AREAS ON WHICH A STAND OF GROWING GRASS IS NOT PRESENT IN A REASONABLE LENGTH OF TIME SHALL BE PREPARED, RESEEDED AND REMULCHED, AS SPECIFIED FOR ORIGINAL PLANTING AT NO COST TO OWNER. A STAND SHALL BE DEFINED AS LIVE GRASS PLANTS FROM SEED OCCURRING AT THE RATE OF NOT LESS THAN 1,000 GROWING PLANTS PER SQUARE FOOT. REPLANTING REQUIRED BECAUSE OF FAULTY OPERATIONS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE PERFORMED WITHOUT COST TO THE OWNER.

LANDSCAPE NOTES

- THE PROPERTY OWNER IS RESPONSIBLE FOR REGULAR WEEDING, MOWING, IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE OF ALL PLANTINGS. THE REQUIRED LANDSCAPING MUST BE MAINTAINED IN HEALTHY GROWING CONDITION AT ALL TIMES.
- ALL PROPOSED LANDSCAPING AND IRRIGATION SHALL BE INSTALLED PER LOCAL CITY ORDINANCES AND STATE REQUIREMENTS, WHICHEVER IS MORE STRINGENT. NOTIFY OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
- NO SPECIFIED PLANT MATERIAL SHALL BE PLANTED UNTIL THE LANDSCAPE IRRIGATION SYSTEM HAS BEEN INSTALLED AND IS OPERATING WITH 100% COVERAGE OF PROPOSED LANDSCAPE AREAS.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES AND LINE RUNS.
- CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL QUANTITIES BASED ON THE DRAWING(S) AND ACTUAL FIELD DIMENSIONS. PLANT QUANTITIES HAVE BEEN PROVIDED AS A CONVENIENCE ONLY TO THE OWNER(S) AND SHALL NOT BE CONSIDERED ABSOLUTE. CONTRACTOR SHALL FOLLOW DESIGN INTENT.
- ALL PROPOSED SUBSTITUTIONS MUST BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- NOTIFY LANDSCAPE ARCHITECT IF LAYOUT OF TREES, BEDS AND/OR PLANTS REQUIRE ALTERATION FROM LANDSCAPE PLAN. NOTIFICATION WILL BE REQUIRED PRIOR TO ALTERING LAYOUT.
- TREES SHALL BE HANDLED BY ROOT BALLS ONLY. DO NOT DAMAGE BALL, TRUNK, OR LOOSEN TRUNK FROM BALL.
- TREE ARE TO BE PLANTED WITH TRUNKS STRAIGHT AND MAY BE REQUIRED BY THE OWNER AND/OR LANDSCAPE ARCHITECT TO BE STAKED. ALL TREES REQUIRED TO BE STAKED AND GUYED SHALL CONTINUE TO BE SO THROUGH THE WARRANTY PERIOD AT WHICH TIME THE OWNER AND/OR LANDSCAPE ARCHITECT SHALL DETERMINE IF REMOVAL IS APPROPRIATE.
- AT NO TIME WILL ANY PLANT MATERIAL BE ALLOWED TO SETTLE BEYOND TOP OF ROOT BALL OR POTTED SOIL LINE. SHOULD PLANT MATERIAL SETTLE, THE PLANT(S) WILL BE REPLANTED AT THE PROPER HEIGHT AND/OR REPLACED IF NECESSARY AT THE CONTRACTOR'S COST.
- ALL PROPOSED BED AREAS SHALL BE TILLED TO A DEPTH OF 6", ADDING A 3" MIN. LAYER OF LIVING EARTH COMPOST BY LIVING EARTH, 972-869-4332, OR APPROVED EQUAL.
- ALL LANDSCAPE BEDS SHALL RECEIVE A 2" TOP DRESS LAYER AND THE TREE PLANTING PITS A 1" LAYER OF NATIVE HARDWOOD MULCH, BY LIVING EARTH, 972-869-4332 EQUAL.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REFUSE ANY LANDSCAPE MATERIAL ON SITE.
- APPLICABLE REFERENCES / STANDARDS / SPECIFICATIONS: AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE - STANDARDIZED PLANT NAMES, SECOND EDITION, 1942. AMERICAN ASSOCIATION OF NURSERYMEN: AMERICAN STANDARD OF NURSERY STOCK, 1973.
- SHOULD EXISTING UTILITIES BE DAMAGED OR DISTURBED DURING CONSTRUCTION, NOTIFY LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE AND PROPER AUTHORITIES FOR RESTORATION.
- CONTRACTOR IS REQUIRED TO PERFORM A PERCOLATION TEST FOR EACH TREE PIT PRIOR TO INSTALLATION. IF DRAINAGE DOES NOT OCCUR WITHIN 24 HOURS THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A GRAVEL SUMP, FILTER FABRIC AND STANDPIPE. ALL SUMPS SHOULD BE INCLUDED IN THE BASE BID AND PROVIDED AS A DEDUCT ALTERNATE IF NOT REQUIRED AFTER THE PERCOLATION TEST IS PERFORMED.

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SHEET CONTENT:

LANDSCAPE NOTES AND LEGENDS

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