



# DEVELOPMENT APPLICATION

City of Rockwall  
Planning and Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087

STAFF USE ONLY

PLANNING & ZONING CASE NO. \_\_\_\_\_

**NOTE:** THE APPLICATION IS NOT CONSIDERED ACCEPTED BY THE CITY UNTIL THE PLANNING DIRECTOR AND CITY ENGINEER HAVE SIGNED BELOW.

DIRECTOR OF PLANNING: \_\_\_\_\_

CITY ENGINEER: \_\_\_\_\_

PLEASE CHECK THE APPROPRIATE BOX BELOW TO INDICATE THE TYPE OF DEVELOPMENT REQUEST [SELECT ONLY ONE BOX]:

### PLATTING APPLICATION FEES:

- MASTER PLAT (\$100.00 + \$15.00 ACRE) <sup>1</sup>
- PRELIMINARY PLAT (\$200.00 + \$15.00 ACRE) <sup>1</sup>
- FINAL PLAT (\$300.00 + \$20.00 ACRE) <sup>1</sup>
- REPLAT (\$300.00 + \$20.00 ACRE) <sup>1</sup>
- AMENDING OR MINOR PLAT (\$150.00)
- PLAT REINSTATEMENT REQUEST (\$100.00)

### SITE PLAN APPLICATION FEES:

- SITE PLAN (\$250.00 + \$20.00 ACRE) <sup>1</sup>
- AMENDED SITE PLAN/ELEVATIONS/LANDSCAPING PLAN (\$100.00)

### ZONING APPLICATION FEES:

- ZONING CHANGE (\$200.00 + \$15.00 ACRE) <sup>1</sup>
- SPECIFIC USE PERMIT (\$200.00 + \$15.00 ACRE) <sup>1 & 2</sup>
- PD DEVELOPMENT PLANS (\$200.00 + \$15.00 ACRE) <sup>1</sup>

### OTHER APPLICATION FEES:

- TREE REMOVAL (\$75.00)
- VARIANCE REQUEST/SPECIAL EXCEPTIONS (\$100.00) <sup>2</sup>

#### NOTES:

<sup>1</sup>: IN DETERMINING THE FEE, PLEASE USE THE EXACT ACREAGE WHEN MULTIPLYING BY THE PER ACRE AMOUNT. FOR REQUESTS ON LESS THAN ONE ACRE, ROUND UP TO ONE (1) ACRE.

<sup>2</sup>: A **\$1,000.00** FEE WILL BE ADDED TO THE APPLICATION FEE FOR ANY REQUEST THAT INVOLVES CONSTRUCTION WITHOUT OR NOT IN COMPLIANCE TO AN APPROVED BUILDING PERMIT.

## PROPERTY INFORMATION [PLEASE PRINT]

ADDRESS Not assigned yet

SUBDIVISION Dalton Goliad Addition

LOT 8&9

BLOCK A

GENERAL LOCATION West side of S.H. 205 two lots north of Dalton Road

## ZONING, SITE PLAN AND PLATTING INFORMATION [PLEASE PRINT]

CURRENT ZONING GR w/N SH 205 Overlay

CURRENT USE Vacant

PROPOSED ZONING Same

PROPOSED USE Retail/Rest. Shopping Center

ACREAGE 1.93

LOTS [CURRENT] 2

LOTS [PROPOSED] 1

**SITE PLANS AND PLATS:** BY CHECKING THIS BOX YOU ACKNOWLEDGE THAT DUE TO THE PASSAGE OF HB3167 THE CITY NO LONGER HAS FLEXIBILITY WITH REGARD TO ITS APPROVAL PROCESS, AND FAILURE TO ADDRESS ANY OF STAFF'S COMMENTS BY THE DATE PROVIDED ON THE DEVELOPMENT CALENDAR WILL RESULT IN THE DENIAL OF YOUR CASE.

## OWNER/APPLICANT/AGENT INFORMATION [PLEASE PRINT/CHECK THE PRIMARY CONTACT/ORIGINAL SIGNATURES ARE REQUIRED]

OWNER Kennor Rockwall Retail, LLC

APPLICANT Vasquez Engineering, LLC

CONTACT PERSON Shane Shoulders

CONTACT PERSON Juan J. Vasquez

ADDRESS 8848 Greenville Ave.

ADDRESS 1919 S. Shiloh Road

Suite 440

CITY, STATE & ZIP Dallas, TX 75243

CITY, STATE & ZIP Garland, TX 75042

PHONE 903-819-1208

PHONE 972-278-2948

E-MAIL sshoulders@sbcglobal.net

E-MAIL jvasquez@vasquezengineering.com

## NOTARY VERIFICATION [REQUIRED]

BEFORE ME, THE UNDERSIGNED AUTHORITY, ON THIS DAY PERSONALLY APPEARED David Shane Shoulders [OWNER] THE UNDERSIGNED, WHO STATED THE INFORMATION ON THIS APPLICATION TO BE TRUE AND CERTIFIED THE FOLLOWING:

"I HEREBY CERTIFY THAT I AM THE OWNER FOR THE PURPOSE OF THIS APPLICATION; ALL INFORMATION SUBMITTED HEREIN IS TRUE AND CORRECT; AND THE APPLICATION FEE OF \$ <sup>288.00</sup> \_\_\_\_\_, TO COVER THE COST OF THIS APPLICATION, HAS BEEN PAID TO THE CITY OF ROCKWALL ON THIS THE 17th DAY OF October, 2023 BY SIGNING THIS APPLICATION, I AGREE THAT THE CITY OF ROCKWALL (I.E. "CITY") IS AUTHORIZED AND PERMITTED TO PROVIDE INFORMATION CONTAINED WITHIN THIS APPLICATION TO THE PUBLIC. THE CITY IS ALSO AUTHORIZED AND PERMITTED TO REPRODUCE ANY COPYRIGHTED INFORMATION SUBMITTED IN CONJUNCTION WITH THIS APPLICATION, IF SUCH REPRODUCTION IS ASSOCIATED OR IN RESPONSE TO A REQUEST FOR PUBLIC INFORMATION."

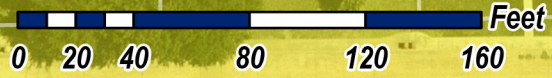
GIVEN UNDER MY HAND AND SEAL OF OFFICE ON THIS THE 17th DAY OF October, 2023

OWNER'S SIGNATURE \_\_\_\_\_

NOTARY PUBLIC IN AND FOR THE STATE OF TEXAS \_\_\_\_\_








SHANNON DR

SF-10

GR

N GOLIAD ST

205

Case Location Map = 



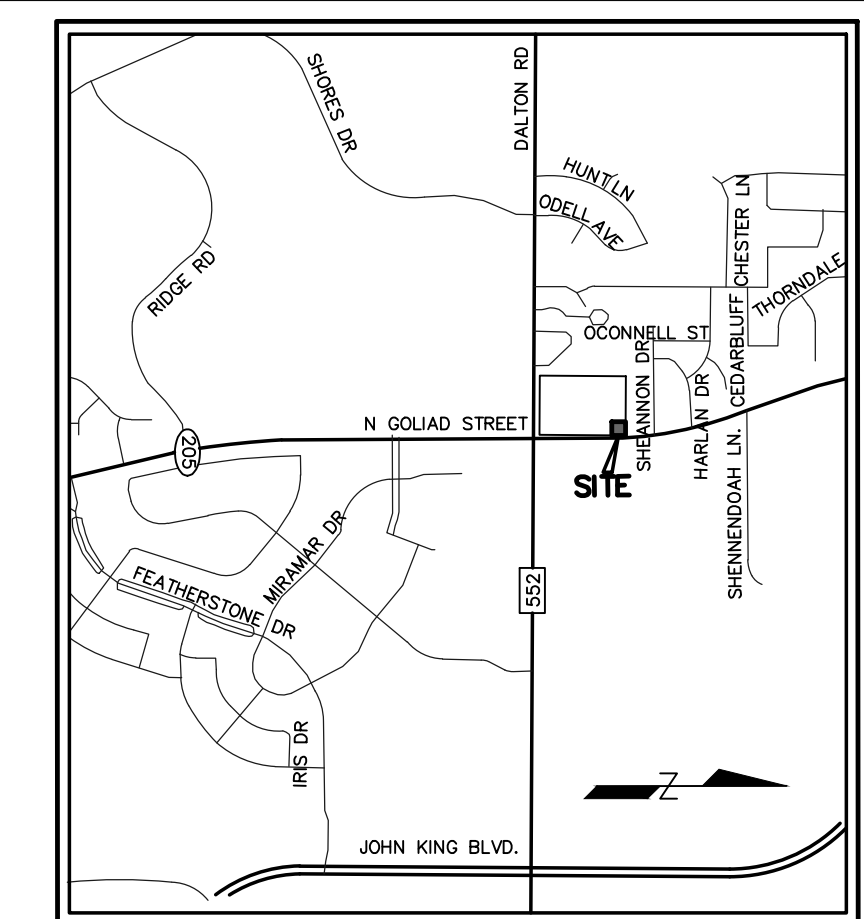
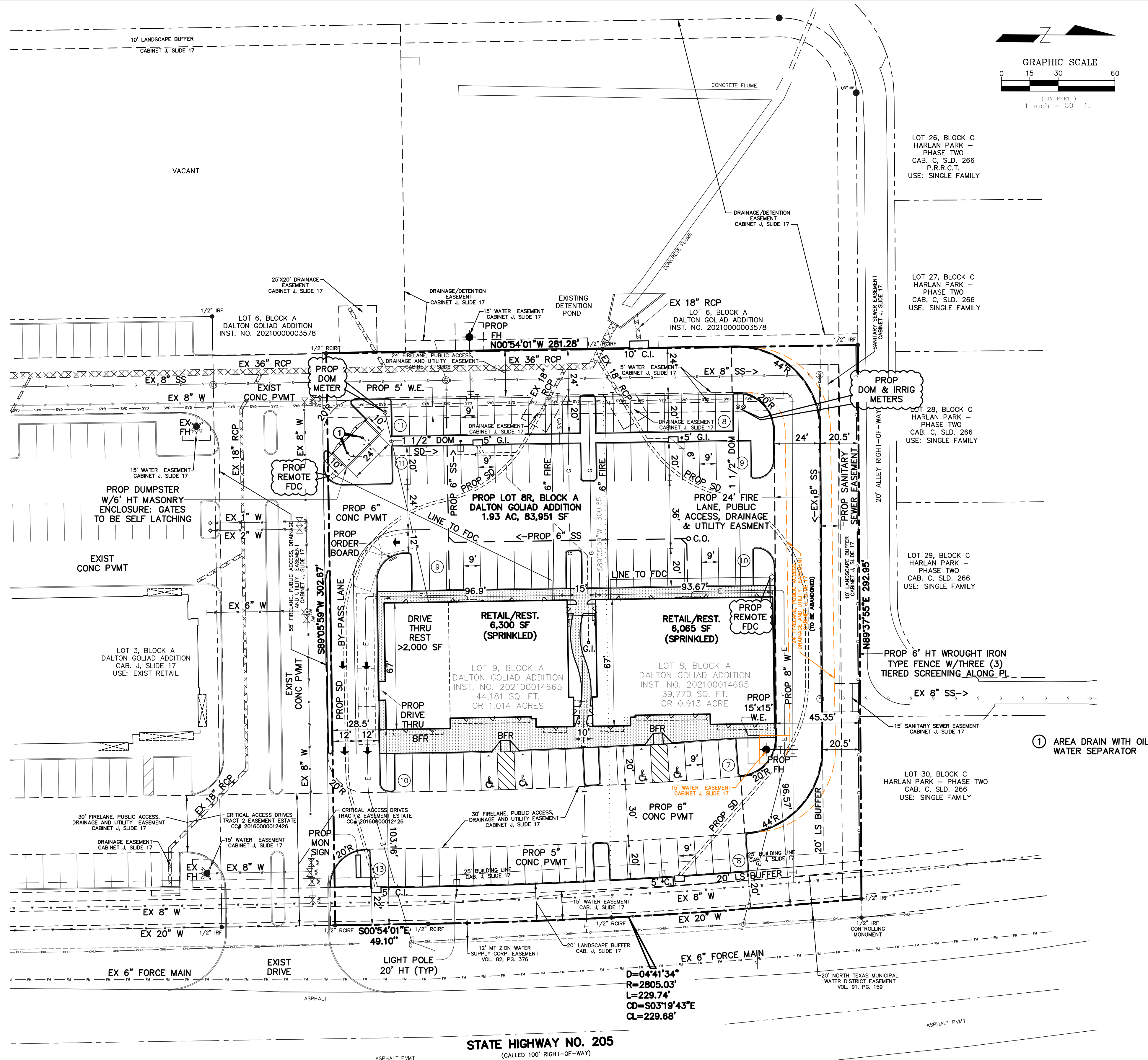
# City of Rockwall

Planning & Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087  
(P): (972) 771-7745  
(W): www.rockwall.com

The City of Rockwall GIS maps are continually under development and therefore subject to change without notice. While we endeavor to provide timely and accurate information, we make no guarantees. The City of Rockwall makes no warranty, express or implied, including warranties of merchantability and fitness for a particular purpose. Use of the information is the sole responsibility of the user.







LOCATION MAP  
N.T.S.

EXISTING	LEGEND	PROPOSED
---	PROPERTY LINE	---
---	PAVEMENT	---
---	CENTER LINE	---
---	CONC WALK	---
---	PARKING COUNT	(13)
---	STACKING	9'
---	WATER	---
---	SEWER	---
---	FORCE MAIN	---
---	STORM SEWER	---
---	ELEC	E
---	GAS	G
---	TELEPHONE	T
---	FENCE	O
---	WATER VALVE	I
---	FIRE HYDRANT	●
---	FDC	◇
---	WATER METER	□
---	SAN. SEWER MH	□
---	CURB INLET	□
---	GRATE INLET	□
---	LIGHT POLE	□

Site Address	GOLIAD	
County	ROCKWALL	
Project Name	KENNOR ROCKWALL RETAIL	
Zoning District	GR W/N. SH 205 OVERLAY DISTRICT	
Proposed use	RETAIL/REST.	
Site Area:	1.93 Acres 83,951 S.F.	
Building Area	12,365 S.F.	
Building Height:	1 Story	
Lot Coverage:	12,365 / 83,951 = 14.73%	
Floor Area Ratio:	12,365 S.F. / 83,951 = 1:14.73	
Parking Required Building:	12,365 S.F.	
	RETAIL	1 SPCS/250 SF (5,365 SF/250) = 22 SPACES
	REST.	1 SPCS/100 SF (7,000 SF/100) = 70 SPACES
Total Parking Required:	= 92 SPACES	
Parking Provided:	REGULAR	= 92 SPACES
	ACCESSIBLE	= 4 SPACES
	TOTAL	= 96 SPACES
Impervious Area:	66,545 S.F.	
Impervious Area Ratio:	66,545 S.F. / 83,951 = 79.27%	
Pervious Area Ratio:	17,406 S.F. / 83,951 = 20.73%	

**SITE PLAN**  
**KENNOR ROCKWALL RETAIL**  
 LOT 8R, BLOCK A  
 DALTON GOLIAD ADDITION  
 1.93 ACRES  
 ROCKWALL, ROCKWALL COUNTY, TEXAS  
 OCTOBER 20, 2023  
 CASE #SP2023-0XX

**APPROVED:**  
 I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING SITE PLAN FOR A DEVELOPMENT IN THE CITY OF ROCKWALL, TEXAS, WAS APPROVED BY THE PLANNING & ZONING COMMISSION OF THE CITY OF ROCKWALL ON THE \_\_\_\_ DAY OF \_\_\_\_ 20\_\_\_\_  
 WITNESS OUR HANDS, THIS \_\_\_\_ DAY OF \_\_\_\_

\_\_\_\_\_  
 PLANNING & ZONING COMMISSION, CHAIRMAN

\_\_\_\_\_  
 DIRECTOR OF PLANNING AND ZONING

- NOTES**
- TOPOGRAPHY SURVEY PREPARED BY PEISER & MANKIN SURVEYING, LLC. DATED 06/28/2023.
  - PROPERTY OWNER RESPONSIBLE FOR MAINTAINING, REPAIRING, AND REPLACEMENT OF THE DETENTION/DRAINAGE SYSTEM.

**OWNER/DEVELOPER:**  
 KENNOR ROCKWALL RETAIL, LLC.  
 8848 GREENVILLE AVE.  
 DALLAS, TEXAS 75243  
 PHONE: 903-819-1208  
 CONTACT: SHANE SHOULDERS

**ENGINEER:**  
 VASQUEZ ENGINEERING, L.L.C.  
 1919 S. SHILOH ROAD, SUITE 440  
 GARLAND, TEXAS 75042  
 PHONE: 972-272-4610  
 CONTACT: JUAN J. VASQUEZ, P.E.

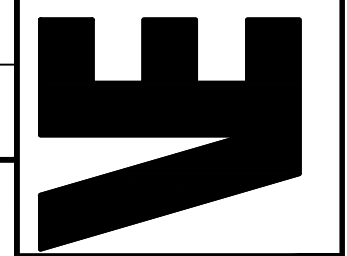
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Designed by:	JJV
Drawn by:	DRS
Checked by:	JJV
1720-01DWS/SITE PLANS/SITE PLAN.dwg	
Date:	10/20/2023

**DEVELOPER:**  
 KENNOR ROCKWALL RETAIL, LLC  
 8848 GREENVILLE AVE.  
 DALLAS, TEXAS 75243

**SITE PLAN**  
 KENNOR ROCKWALL RETAIL  
 LOT 8R, BLOCK A  
 DALTON GOLIAD ADDITION  
 CITY OF ROCKWALL, TX.

**SHEET**  
**SP1**

**VASQUEZ ENGINEERING, L.L.C.**  
 1919 S. Shiloh Road  
 Suite 440, LB 44  
 Garland, Texas 75042  
 Ph: 972-272-2948  
 TX Registration # F-12266



THIS DOCUMENT IS FOR INTERIM REVIEW AND IS NOT TO BE USED FOR BIDDING PURPOSES OR CONSTRUCTION PERMITTING WITHOUT THE WRITTEN CONSENT OF VASQUEZ ENGINEERING, L.L.C. DATED 10/20/2023. TEXAS REG. NO. 85652. VASQUEZ ENGINEERING, L.L.C. TX REG. F-12266



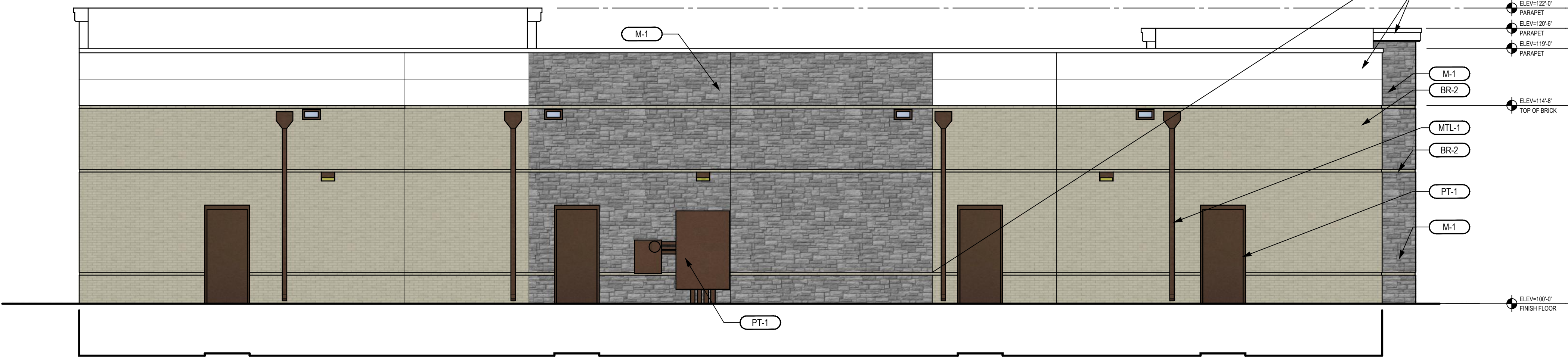


**01 EAST ELEVATION-BLDG 01**  
3/16" = 1'-0"

FINISH KEY	DESCRIPTION / LOCATION	COLOR / MATERIAL	MANUFACTURER / FINISH	NOTES
PT-1	PAINT	SW7645 THUNDER GRAY	SHERWIN WILLIAMS	MED BRONZE MATCH
BR-1	BRICK VENEER	MARBLE GRAY	ACME BRICK	GRAY MORTOR
BR-2	BRICK VENEER	DOESKIN	ACME BRICK	GRAY MORTOR
SF-1	STOREFRONT SYSTEM	MEDIUM BRONZE	KAWNEER	CENTER SET
M-1	STONE	CHAPEL BUFF SAWN	JACOBS STONE	
MLT-1	METAL TRIM/CANOPIES	MED BRONZE	BERRIDGE	DOWNSPOUTS TO MATCH
ST-1	SYNTHETIC STUCCO	35237 CLOUD	STO	FINE FINISH SW6203 COLOR MATCH

MATERIAL CALCULATIONS								
WALL AREA (ALL IN SF)	NORTH	SOUTH	EAST	WEST				
TOTAL FACADE AREA	1297	1289	2080	1960				
FACADE SF EXCLUDING DOORS & WINDOWS	1197	1273	1480	1876				
DOORS & WINDOWS	100	16	600	84				
FACADE CALCULATIONS								
STONE	202	17%	129	10%	335	23%	588	31%
BRICK (BR1)	0	0%	115	9%	514	35%	0	0%
BRICK (BR2)	780	65%	801	63%	320	22%	926	49%
SYNTHETIC STUCCO (ST-1)	215	18%	228	18%	311	21%	362	19%
TOTAL SF / % OF FACADE	1197	100%	1273	100%	1480	100%	1876	100%

NOTE - EAST ELEVATION FACES PUBLIC RIGHT OF WAY

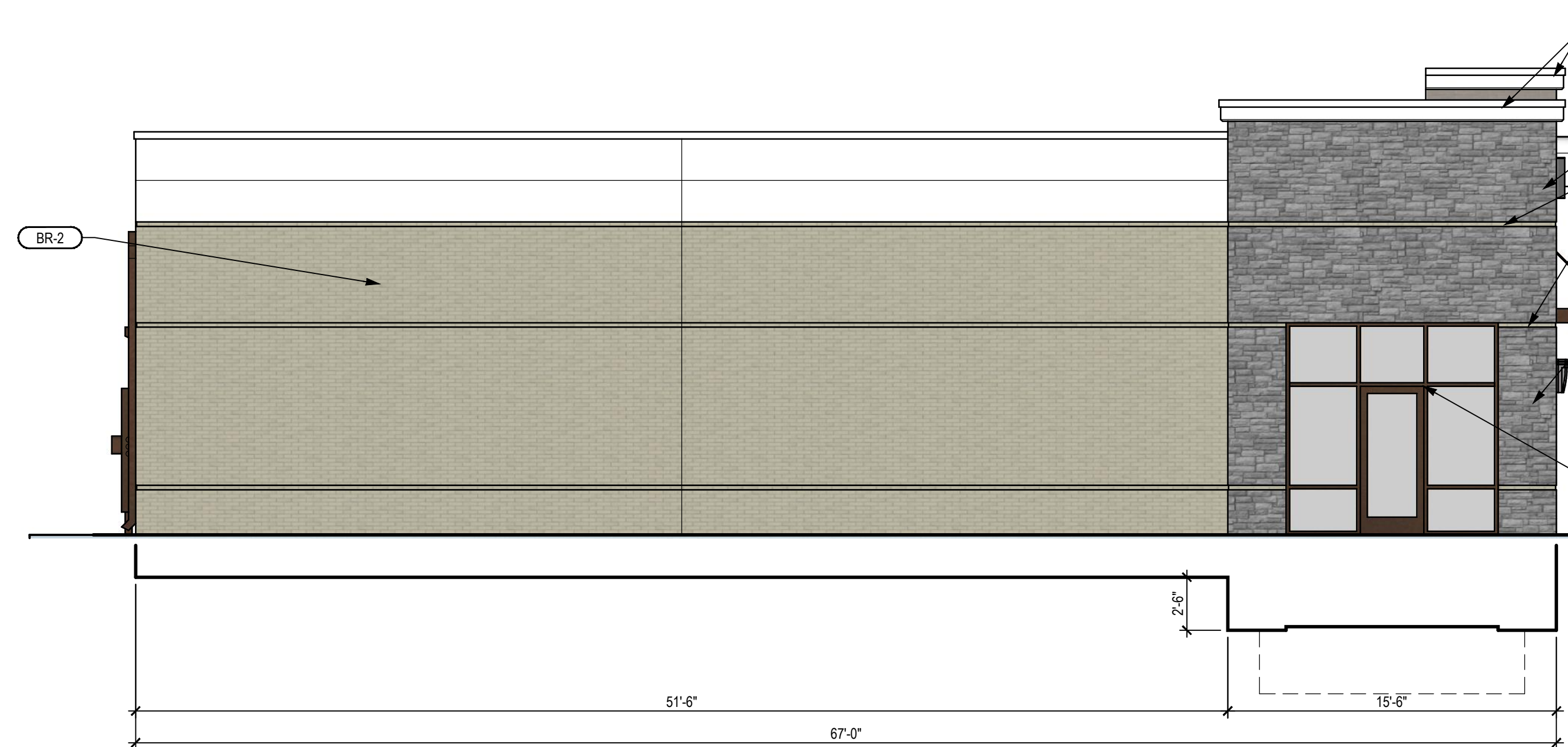


**02 WEST ELEVATION-BLDG 01**  
3/16" = 1'-0"

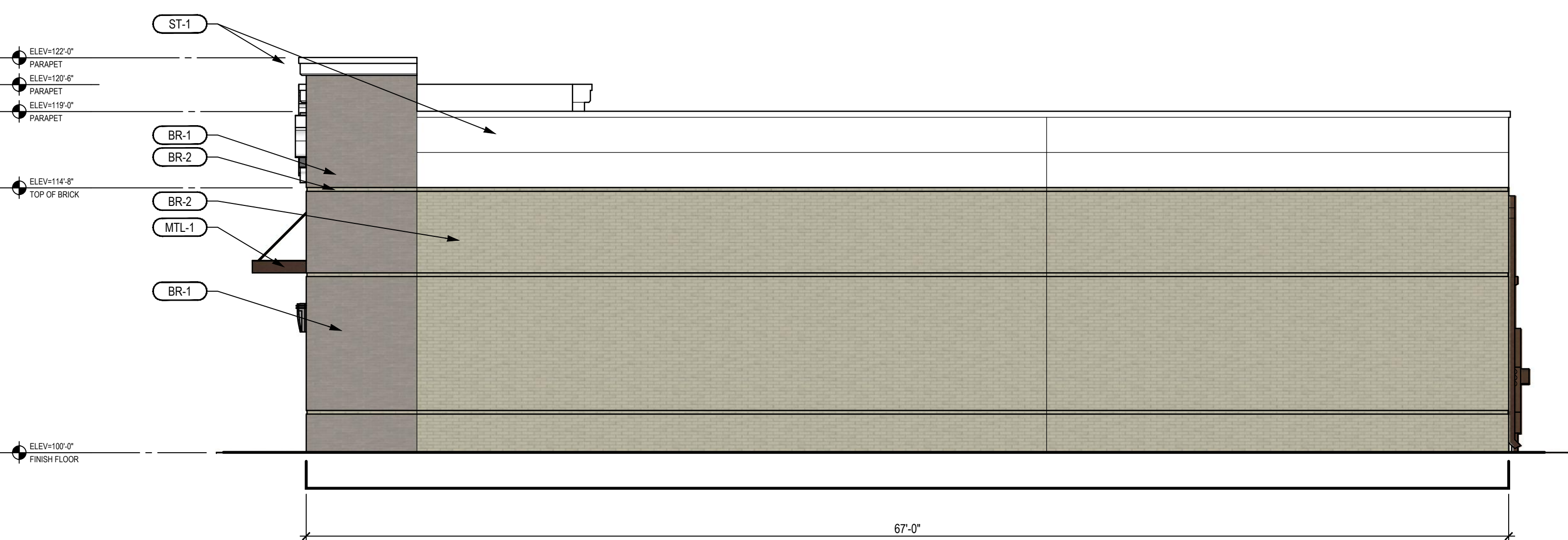
**OWNER/DEVELOPER:**  
KENNOR ROCKWALL RETAIL, LLC.  
8848 GREENVILLE AVE.  
DALLAS, TEXAS 75243  
PHONE: 903-819-1208  
CONTACT: SHANE SHOULDERS

**ENGINEER:**  
VASQUEZ ENGINEERING, L.L.C.  
1919 S. SHILOH ROAD, SUITE 440  
GARLAND, TEXAS 75042  
PHONE: 972-272-4610  
CONTACT: JUAN J. VASQUEZ, P.E.

BUILDING ELEVATIONS  
KENNOR ROCKWALL RETAIL  
LOT 8R, BLOCK A  
DALTON GOLIAD ADDITION  
1.93 ACRES  
ROCKWALL, ROCKWALL COUNTY, TEXAS  
OCTOBER 20, 2023  
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**04 SOUTH ELEVATION-BLDG 01**  
3/16" = 1'-0"



**03 NORTHELEVATION-BLDG 01**  
3/16" = 1'-0"

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1919 S. Shiloh Road  
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Ph: 972-272-2948  
TX Registration # F-12266

**NCA Partners**  
ARCHITECTURE

5646 MILTON ST.  
SUITE 610  
DALLAS, TX 75206  
214.361.9901  
214.361.9906 FAX  
ncapartners.com

PRELIMINARY  
THIS DOCUMENT SHALL NOT BE  
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APPROVAL, PERMIT, OR  
CONSTRUCTION. RELEASED  
UNDER THE AUTHORITY OF  
NICHOLAS K CADE, TB&E  
LICENSE #9301

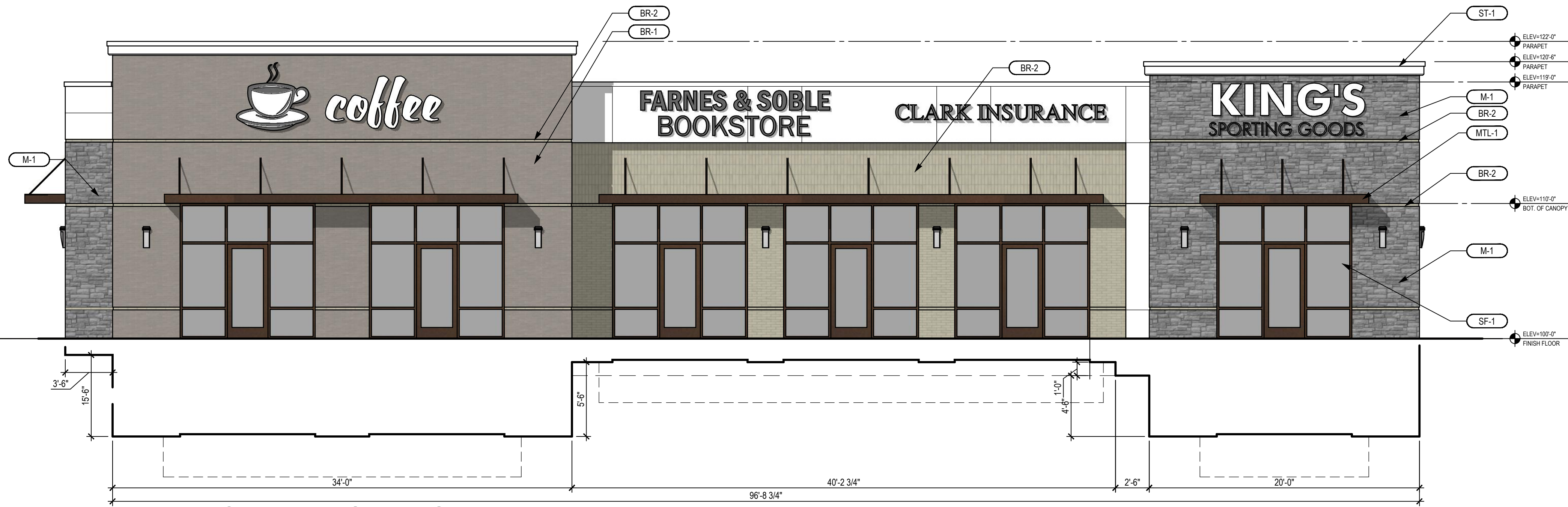
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**BUILDING ELEVATIONS - BLDG 01**  
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LOT 8R, BLOCK A  
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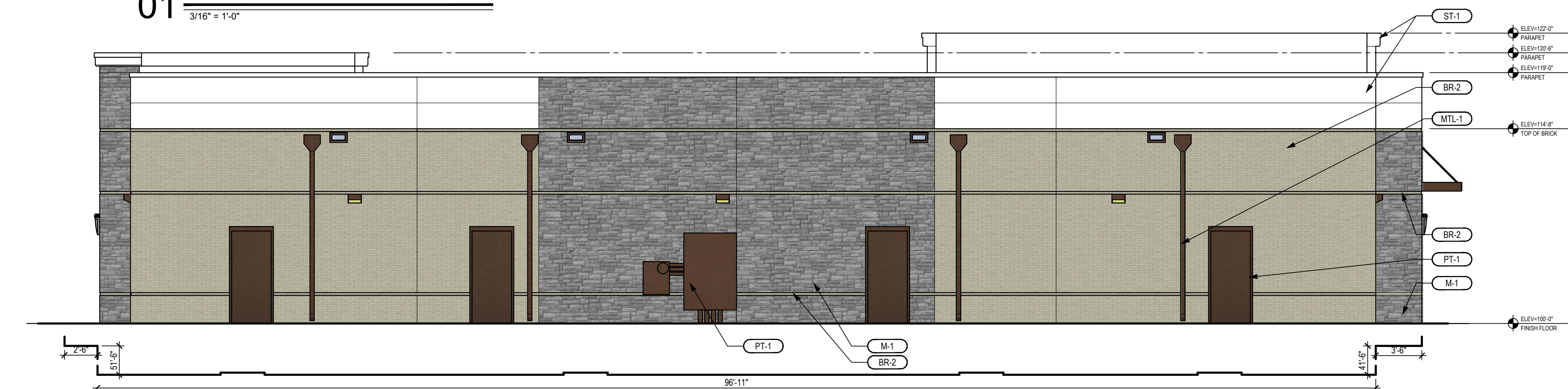
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Designed by: KAB  
Drawn by: KAB  
Checked by: KAB  
Date: 10/20/2023

SHEET  
**A301**

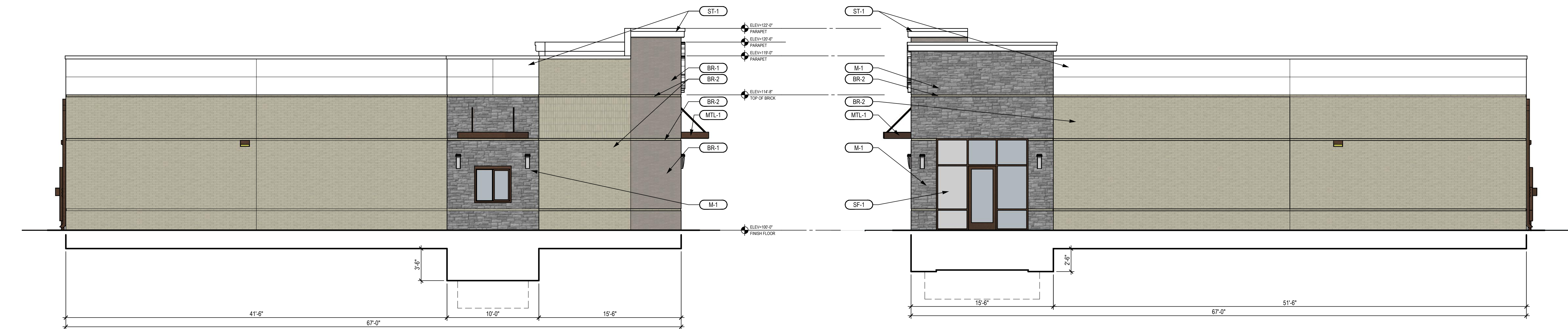




**01 EAST ELEVATION-BLDG 02**  
3/16" = 1'-0"



**02 WEST ELEVATION-BLDG 02**  
3/16" = 1'-0"



**04 SOUTH ELEVATION-BLDG 02**  
3/16" = 1'-0"

**03 NORTH ELEVATION-BLDG 02**  
3/16" = 1'-0"

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GARLAND, TEXAS 75042  
PHONE: 972-272-4610  
CONTACT: JUAN J. VASQUEZ, P.E.

BUILDING ELEVATIONS  
KENNOR ROCKWALL RETAIL  
LOT 8R, BLOCK A  
DALTON GOLIAD ADDITION  
1.93 ACRES  
ROCKWALL, ROCKWALL COUNTY, TEXAS  
OCTOBER 20, 2023  
CASE #SP2023-0XX

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**DEVELOPER:**  
KENNOR ROCKWALL RETAIL, LLC  
8848 GREENVILLE AVE.  
DALLAS, TEXAS 75243

**BUILDING ELEVATIONS - BLDG 02**  
KENNOR ROCKWALL RETAIL  
LOT 8R, BLOCK A  
DALTON GOLIAD ADDITION  
CITY OF ROCKWALL, TX.

Scale: 3/16" = 1'-0"  
Designed by: KAB  
Drawn by: KAB  
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Date: 10/20/2023

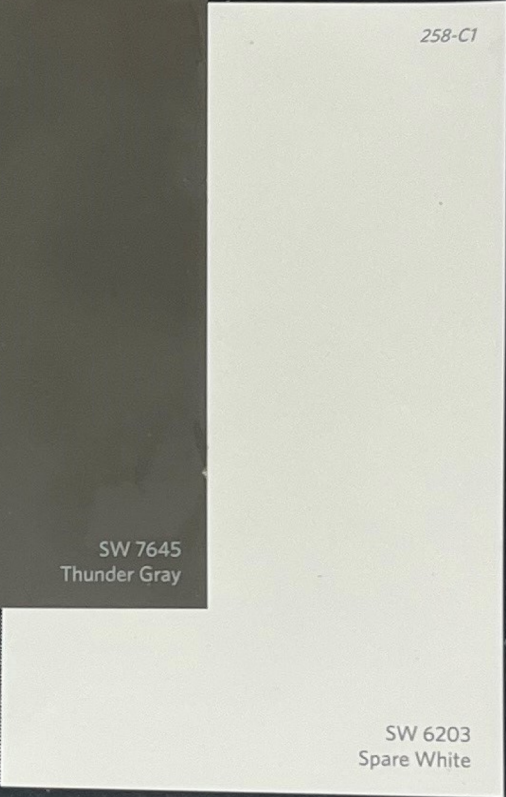
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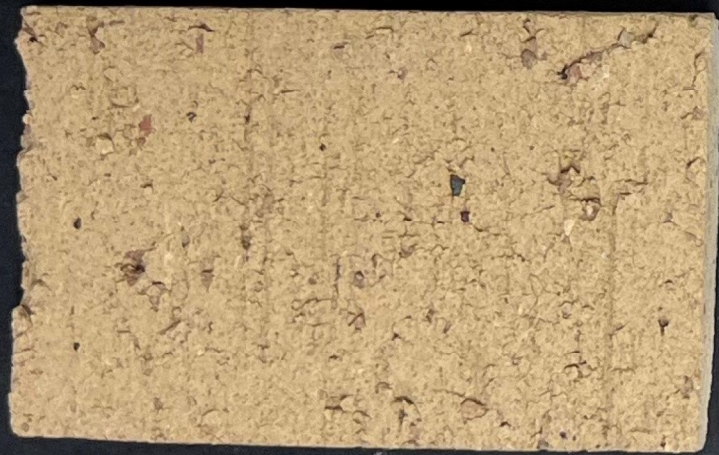


P1-SW7645  
THUNDER GRAY

M1-STONE  
CHAPEL BUFF



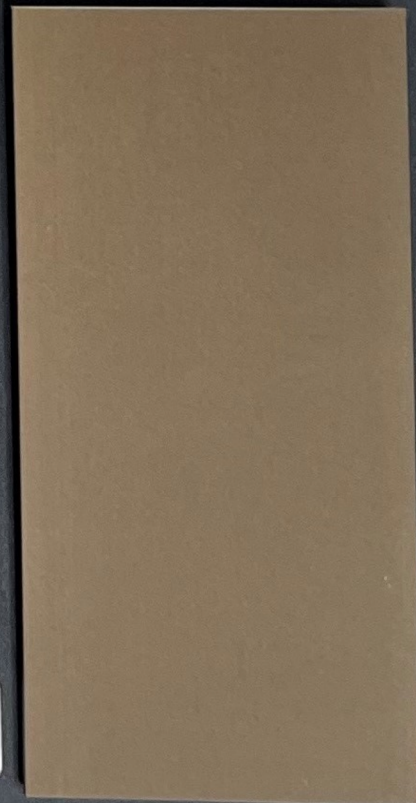
ST-1 STUCCO  
SW6203 SPARE WHITE



BR2-BRICK  
DOESKIN



BR1-BRICK  
MARBLE GRAY

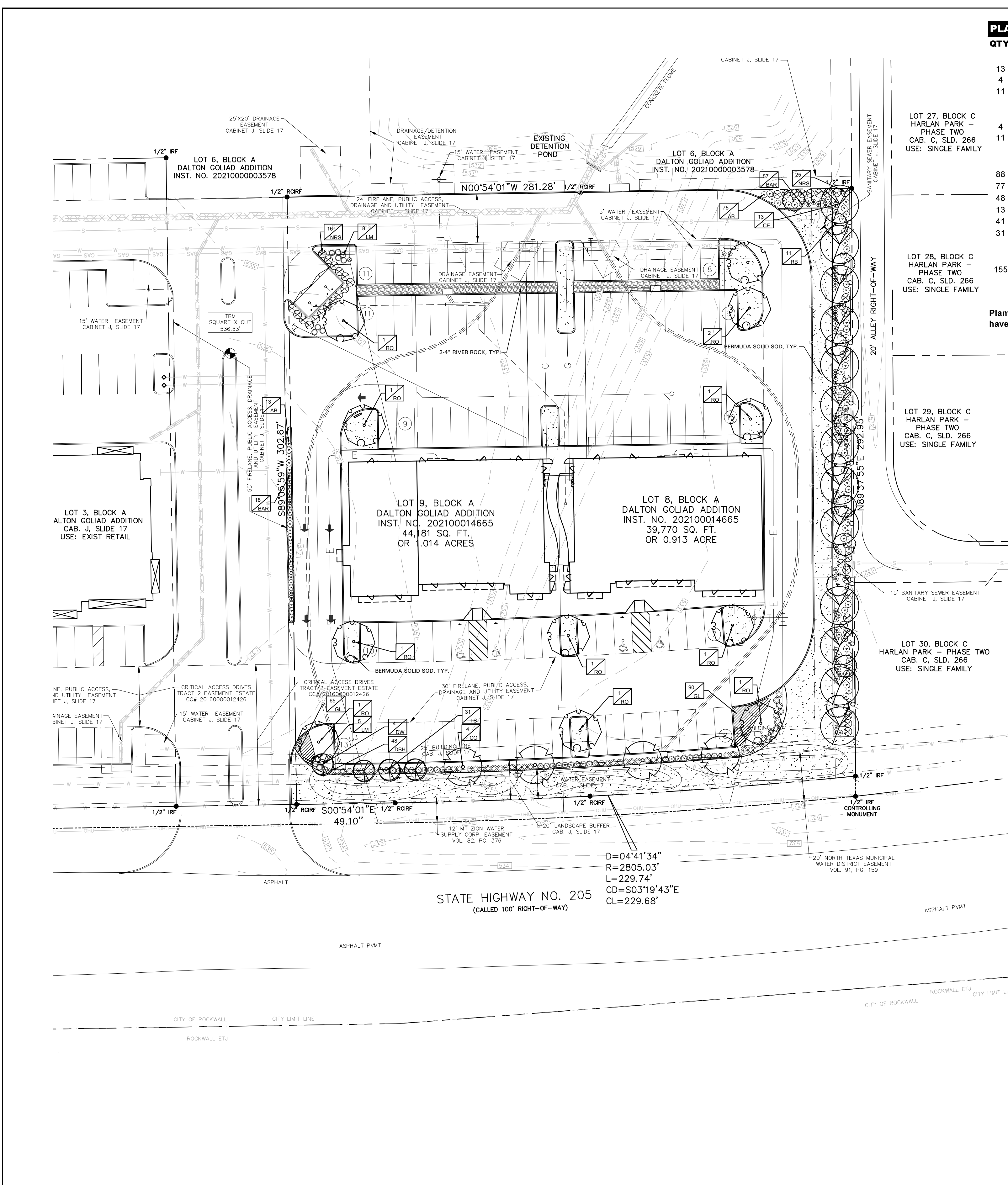


SF1-STOREFRONT  
MED. BRONZE



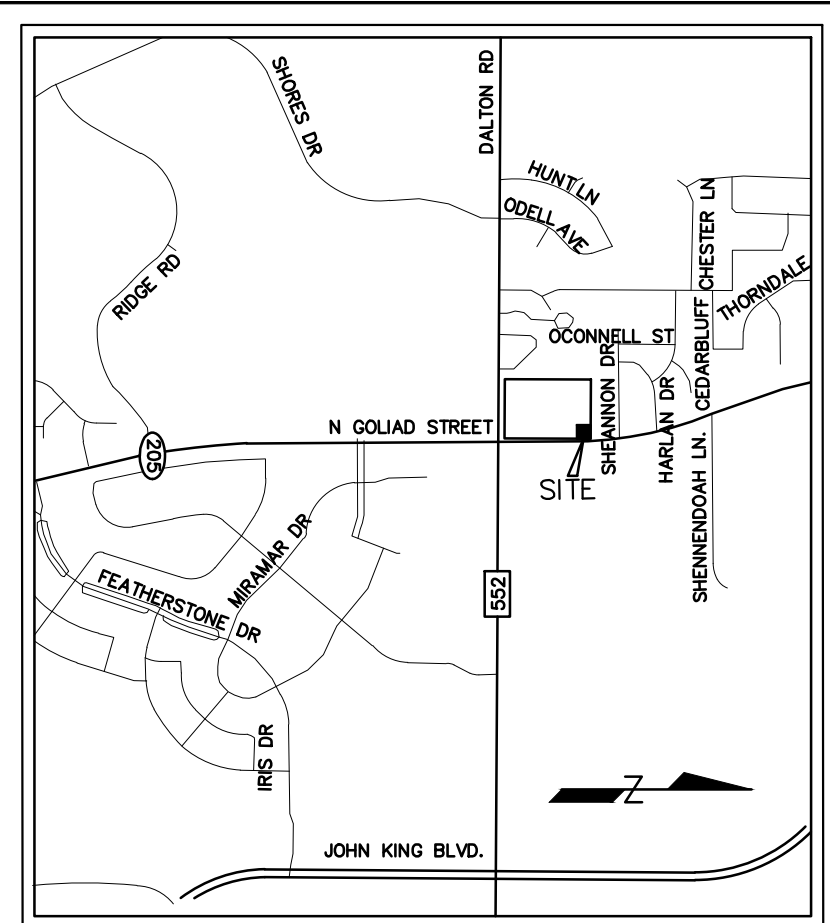
MLT-1 METAL  
MED. BRONZE





PLANT SCHEDULE					
QTY	LABEL	COMMON NAME	SCIENTIFIC NAME	SIZE	NOTES
<b>SHADE TREES</b>					
13	CE	Cedar Elm	<i>Ulmus crassifolia</i>	3" cal.	12' ht., 4' spread, matching
4	CO	Chinkapin Oak	<i>Quercus muhlenbergii</i>	3" cal.	12' ht., 4' spread, matching
11	RO	Texas Red Oak	<i>Quercus texana</i>	3" cal.	12' ht., 4' spread, matching
<b>ORNAMENTAL TREES</b>					
4	DW	Desert Willow	<i>Chilopsis linearis</i>	30 gal.	8' ht., 4' spread, multi trunk, 3 cane min.
11	RB	Oklahoma Redbud	<i>Cercis reniformis 'Oklahoma'</i>	30 gal.	8' ht., 4' spread, 3 trunk min.
<b>SHRUBS</b>					
88	AB	Edward Goucher Abelia	<i>Abelia x grandiflora 'Edward Goucher'</i>	5 gal.	full, 20" spread, 36" o.c.
77	BAR	Crimson Pygmy Barbary	<i>Berberis thunbergii 'Crimson Pygmy'</i>	5 gal.	full, 20" sprd, 30" o.c.
48	DBH	Dwarf Burford Holly	<i>Ilex cornuta 'Burford Nana'</i>	5 gal.	full, 20" spread, 36" o.c.
13	LM	Lindheimer Muhly Grass	<i>Muhlenbergia lindheimeri</i>	5 gal.	full, 24" spread, 36" o.c.
41	NRS	Nellie R Stevens Holly	<i>Ilex x 'Nellie R. Stevens'</i>	7 gal.	full, 40" o.c.
31	TS	Texas Sage 'Green Cloud'	<i>Leucophyllum frutescens 'Green Cloud'</i>	5 gal.	full, 24" sprd, 36" o.c.
<b>GROUNDCOVER/VINES/GRASS</b>					
155	GL	Giant Liriope	<i>Liriope gigantea</i>	1 gal.	full, 18" o.c.
		Bermuda Solid Sod	TifTuf		2-4" River Rock

Plant list is an aid to bidders only. Contractor shall verify all quantities on plan. All heights and spreads are minimums. Trees shall have a strong central leader and be of matching specimens. All plant material shall meet or exceed remarks as indicated.



LOCATION MAP  
N.T.S.

LANDSCAPE TABULATIONS ROCKWALL, TEXAS	
<b>NON RESIDENTIAL BUFFERS ABUTTING R-O-W</b>	
1. Buffer strips shall be a minimum of 20' wide along the entire length of the property's frontage abutting the right of way. All landscape buffers shall incorporate groundcover, a built up berm and shrubbery. Berms and shrubs shall have a minimum height of 30".	
2. One canopy tree and one accent tree shall be incorporated for every 50 l.f.	
State Highway 205 = 278 l.f.	
<b>REQUIRED</b>	<b>PROVIDED</b>
20' wide buffer	20' wide buffer
berm and/or shrubs	shrubs 36" ht.
4 canopy trees, 4" cal.	4 canopy trees, 4" cal.
4 accent trees, 4" ht.	4 accent trees, 4" ht.
<b>NON RESIDENTIAL ABUTTING RESIDENTIAL</b>	
1. Buffer of 20' shall be placed between non residential and residential properties	
2. 6" wrought iron fence with three tiered screening (1 small to mid sized shrub, large shrubs or accent trees and canopy trees along the entry length of adjacency with canopy trees being placed 20' o.c.	
<b>REQUIRED</b>	<b>PROVIDED</b>
20' wide buffer	20' wide buffer
6" ht. wrought iron fence	6" ht. wrought iron fence
3 tier landscape	3 tier landscape
<b>PARKING LOT LANDSCAPE</b>	
1. Surface parking shall be screened from all adjacent public streets and neighboring sites. The screen must extend along all edges and be a min. 3' in height, 80% opaque.	
2. There shall be a landscape island every 10 parking spaces. One shade tree shall be provided for every 10 cars.	
<b>REQUIRED</b>	<b>PROVIDED</b>
36" screen	36" screen
10 canopy trees, 4" cal.	10 canopy trees, 4" cal.

GENERAL LAWN NOTES

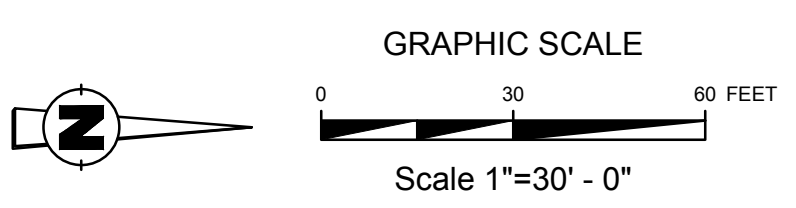
- CONTRACTOR SHALL COORDINATE OPERATIONS AND AVAILABILITY OF EXISTING TOPSOIL WITH ON-SITE CONSTRUCTION MANAGER
  - LAWN AREAS SHALL BE LEFT 1" BELOW FINAL FINISHED GRADE PRIOR TO TOPSOIL INSTALLATION.
  - CONTRACTOR TO FIND GRADE AREAS TO ACHIEVE FINAL CONTOURS AS SHOWN ON CIVIL DRAWINGS. POSITIVE DRAINAGE SHALL BE PROVIDED AWAY FROM ALL BUILDINGS, ROUNDING AT TOP AND BOTTOM OF SLOPES SHALL BE PROVIDED AND IN OTHER AREAS IN GRADE CORRECT AREAS WHERE STANDING WATER MAY OCCUR.
  - ALL LAWN AREAS SHALL BE FINE GRADED, IRRIGATION TRENCHES COMPLETELY SETTLED AND FINISH GRADE APPROVED BY THE OWNER'S CONSTRUCTION MANAGER OR LANDSCAPE ARCHITECT PRIOR TO LAWN INSTALLATION.
  - CONTRACTOR SHALL REMOVE ALL ROCKS 3/4" IN DIAMETER AND LARGER. REMOVE ALL DIRT CLOUDS, STICKS, CONCRETE SPILLS, TRASH ETC PRIOR TO PLACING TOPSOIL AND GRASS INSTALLATION.
  - CONTRACTOR SHALL MAINTAIN ALL LAWN AREAS UNTIL FINAL ACCEPTANCE.
  - CONTRACTOR SHALL GUARANTEE ESTABLISHMENT OF ACCEPTABLE TURF AREA AND SHALL PROVIDE REPLACEMENT IF NECESSARY.
- SOLID SOD:**
- SOLID SOD SHALL BE PLACED ALONG ALL IMPERVIOUS EDGES, AT A MINIMUM. THIS SHALL INCLUDE CURBS, WALKS, INLETS, MANHOLES AND PLANTING BED AREAS. SOD SHALL COVER OTHER AREAS COMPLETELY AS INDICATED BY PLAN.
  - SOD SHALL BE STRONGLY ROOTED DROUGHT RESISTANT SOD, NOT LESS THAN 2" BELOW FINAL FINISHED GRADE AND QUALITY INDICATED ON THE PLANT MATERIAL LIST.
  - LAY SOD BY HAND TO COVER INDICATED AREAS COMPLETELY, ENSURING EDGES ARE TOUCHING WITH TIGHTLY FITTING JOINTS. NO OVERLAPS WITH STAGGERED STRIPS TO OFFSET JOINTS.
  - TOP DRESS JOINTS IN SOD BY HAND WITH TOPSOIL TO FILL Voids IF NECESSARY.
  - SOD SHALL BE ROLLED TO CREATE A SMOOTH EVEN SURFACE. SOD SHOULD BE WATERED THOROUGHLY DURING INSTALLATION PROCESS.
  - SHOULD INSTALLATION OCCUR BETWEEN OCTOBER 1ST AND MARCH 1ST, OVERSEED BERMUDAGRASS SOD WITH WINTER RYEGRASS AT A RATE OF 4 POUNDS PER 1000 S.F.
- HYDROMULCH:**
- SCARIFY AND LOOSEN ALL AREAS TO BE HYDROMULCHED TO A MINIMUM DEPTH OF 4" PRIOR TO TOPSOIL AND HYDROMULCH INSTALLATION.
  - BERMUDA GRASS SEED SHALL BE EXTRA HULLED, TREATED LAWN TYPE. SEED SHALL BE DELIVERED TO THE SITE IN ITS ORIGINAL UNOPENED CONTAINER AND SHALL MEET ALL STATE LOCAL LAW REQUIREMENTS. FIBER SHALL BE 100% WOOD CELLULOSE FIBER DELIVERED TO THE SITE IN ITS ORIGINAL UNOPENED CONTAINER AS MANUFACTURED BY "CONWEB" OR EQUAL.
  - FIBER TACK SHALL BE DELIVERED TO THE SITE IN ITS UNOPENED CONTAINER AND SHALL BE TIERCO-TACK ONE, AS MANUFACTURED BY GROVERS, INC. OR APPROVED EQUAL.
  - HYDROMULCH WITH BERMUDA GRASS SEED AT A RATE OF 2 POUNDS PER 1000 S.F.
  - USE A BATTER BOARD AGAINST ALL BED AREAS TO PREVENT OVER SPRAY.
  - IF INADEQUATE MOISTURE IS PRESENT IN SOIL, APPLY WATER AS NECESSARY FOR OPTIMUM MOISTURE FOR SEED APPLICATION.
  - IF INSTALLATION OCCURS BETWEEN SEPTEMBER 1ST AND MAY 1ST, ALL HYDROMULCH AREAS SHALL BE OVER SEED WITH WINTER RYE GRASS AT A RATE OF FOUR POUNDS PER ONE THOUSAND SQUARE FEET. CONTRACTOR SHALL BE REQUIRED TO RE-HYDROMULCH WITH BERMUDA GRASS THE FOLLOWING GROWING SEASON AS PART OF THIS CONTRACT.
  - AFTER APPLICATION, NO EQUIPMENT SHALL OPERATE OVER APPLIED AREAS. WATER SEEDS AREA IMMEDIATELY AFTER INSTALLATION TO SATURATION.
  - ALL LAWN AREAS TO BE HYDROMULCHED SHALL ACHIEVE 100% COVERAGE PRIOR TO FINAL ACCEPTANCE.

LANDSCAPE NOTES

- CONTRACTOR TO VERIFY AND LOCATE ALL PROPOSED AND EXISTING ELEMENTS. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE FOR ANY LAYOUT DISCREPANCIES OR ANY CONDITION THAT WOULD PROHIBIT THE INSTALLATION AS SHOWN. SURVEY DATA OF EXISTING CONDITIONS WAS SUPPLIED BY OTHERS
  - CONTRACTOR SHALL CALL 811 TO VERIFY AND LOCATE ANY AND ALL UTILITIES ON SITE PRIOR TO COMMENCING WORK. LANDSCAPE ARCHITECT SHOULD BE NOTIFIED OF ANY CONFLICTS. CONTRACTOR TO EXERCISE EXTREME CAUTION WHEN WORKING NEAR UNDERGROUND UTILITIES.
  - A MINIMUM OF 2% SLOPE SHALL BE PROVIDED AWAY FROM ALL STRUCTURES
  - CONTRACTOR SHALL FINE GRADE AREAS TO ACHIEVE FINAL CONTOURS AS INDICATED. LEAVE AREAS TO RECEIVE TOPSOIL 1" BELOW FINAL FINISHED GRADE IN PLANTING AREAS AND 1" BELOW FINAL FINISHED GRADE IN LAWN AREAS
  - LANDSCAPE ISLANDS SHALL BE CROWNED, AND UNIFORM THROUGHOUT THE SITE.
  - PLANTING AREAS AND SOD TO BE SEPARATED BY STEEL EDGING. NO STEEL EDGING SHALL BE INSTALLED ADJACENT TO BUILDINGS, WALKS OR CURBS. EDGING NOT TO BE MORE THAN 1/2" ABOVE FINISHED GRADE.
  - EDGING SHALL BE CUT AT 45 DEGREE ANGLE WHERE IT INTERSECTS WALKS AND/OR CURBS.
  - MULCH SHALL BE INSTALLED AT 1/2" BELOW THE TOPS OF SIDEWALKS AND CURBING.
  - QUANTITIES ON THESE PLANS ARE FOR REFERENCE ONLY. THE SPACING OF PLANTS SHOULD BE AS INDICATED ON PLANS OR OTHERWISE NOTED. ALL TREES AND SHRUBS SHALL BE PLANTED PER DETAILS.
  - MULCH SHALL BE INSTALLED TO THE SIZE AND QUALITY INDICATED ON THE PLANT MATERIAL LIST. PREFERRED HOWEVER BALL AND BURL PLANT MATERIAL CAN BE SUBSTITUTED IF NEED BE AND IS APPROPRIATE TO THE GRASS AND QUALITY INDICATED ON THE PLANT MATERIAL LIST.
  - TREES SHALL BE PLANTED AT A MINIMUM OF 5' FROM ANY UTILITY LINE, SIDEWALK OR CURB. TREES SHALL ALSO BE 10' CLEAR FROM FIRE HYDRANTS.
  - 4" OF SHREDDED HARDWOOD MULCH (2" SETTLED THICKNESS) SHALL BE PLACED OVER WEED BARRIER FABRIC. MULCH SHALL BE SHREDDED HARDWOOD MULCH OR APPROVED EQUAL. PINE STRAW MULCH IS PROHIBITED.
  - WEED BARRIER FABRIC SHALL BE USED IN PLANT BEDS AND AROUND ALL TREES AND SHALL BE MIRAF 145 WEED BARRIER OR APPROVED EQUAL.
  - CONTRACTOR TO PROVIDE UNIT PRICING OF LANDSCAPE MATERIALS AND BE RESPONSIBLE FOR OBTAINING ALL LANDSCAPE AND IRRIGATION PERMITS.
- IRRIGATION:**
- ALL REQUIRED LANDSCAPE AREAS SHALL HAVE AN AUTOMATIC IRRIGATION SYSTEM WITH A FREEZE/RAIN SENSOR. SYSTEM SHALL ALSO HAVE AN ET WEATHER BASED CONTROLLER AND BE DESIGNED AND INSTALLED BY A LICENSED IRRIGATOR.
- MAINTENANCE REQUIREMENTS:**
- VEGETATION SHOULD BE INSPECTED REGULARLY TO ENSURE THAT PLANT MATERIAL IS ESTABLISHING PROPERLY AND REMAINS IN A HEALTHY GROWING CONDITION APPROPRIATE FOR THE SEASON. IF DAMAGED OR REMOVED, PLANTS MUST BE REPLACED BY A SIMILAR VARIETY AND SIZE.
  - MOWING, TRIMMING, EDGING AND SUPERVISION OF WATER APPLICATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL THE OWNER OR OWNER'S REPRESENTATIVE ACCEPTS AND ASSUMES REGULAR MAINTENANCE.
  - ALL LANDSCAPE AREAS SHOULD BE CLEANED AND KEPT FREE OF TRASH, DEBRIS, WEEDS AND OTHER MATERIAL.
- MISCELLANEOUS MATERIALS:**
- STEEL EDGING SHALL BE 3/4" X 4 X 16" DARK GREEN DURABLE STEEL. LANDSCAPE EDGING UNLESS NOTED OTHERWISE ON PLANS/DETAILS.
  - RIVER ROCK SHALL BE ARIZONA RIVER ROCK, 2" - 4" DIAMETER. RIVER ROCK SHALL BE COMPACTED TO A MINIMUM OF 3" DEPTH OVER FILTER FABRIC.

SITE SUMMARY TABLE

Site Address	GOLIAD
County	ROCKWALL
Project Name	KENNOR ROCKWALL RETAIL
Zoning District	GR W/N, SH 205 OVERLAY DISTRICT
Proposed use	RETAIL/REST.
Site Area:	1.93 Acres 83,951 S.F.
Building Area	12,365 S.F.
Building Height:	1 Story
Lot Coverage:	12,365 / 83,951 = 14.73%
Floor Area Ratio:	12,365 S.F. / 83,951 = 1:14.73
Parking Required Building:	12,365 S.F.
	RETAIL 1 SPCS/250 SF (5,365 SF/250) = 22 SPACES
	REST. 1 SPCS/100 SF (7,000 SF/100) = 70 SPACES
Total Parking Required:	= 92 SPACES
Parking Provided:	REGULAR = 92 SPACES
	ACCESSIBLE = 4 SPACES
	TOTAL = 96 SPACES
Impervious Area:	66,545 S.F.
Impervious Area Ratio:	66,545 S.F. / 83,951 = 79.27%
Pervious Area Ratio:	17,406 S.F. / 83,951 = 20.73%



OWNER/DEVELOPER:  
KENNOR ROCKWALL RETAIL, LLC.  
8848 GREENVILLE AVE.  
DALLAS, TEXAS 75243  
PHONE: 903-819-1208  
CONTACT: SHANE SHOULDERS

ENGINEER:  
VASQUEZ ENGINEERING, L.L.C.  
1919 S. SHILOH ROAD, SUITE 440  
GARLAND, TEXAS 75042  
PHONE: 972-272-4610  
CONTACT: JUAN J. VASQUEZ, P.E.

LANDSCAPE PLAN  
KENNOR ROCKWALL RETAIL  
LOT 8R, BLOCK A  
DALTON GOLIAD ADDITION  
1.93 ACRES  
ROCKWALL, ROCKWALL COUNTY, TEXAS  
OCTOBER 20, 2023  
CASE #SP2023-0XX

APPROVED:  
I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING SITE PLAN FOR A DEVELOPMENT IN THE CITY OF ROCKWALL, TEXAS, WAS APPROVED BY THE PLANNING & ZONING COMMISSION OF THE CITY OF ROCKWALL ON THE \_\_\_\_ DAY OF \_\_\_\_ 20\_\_.

WITNESS OUT HANDS, THIS \_\_\_\_ DAY OF \_\_\_\_

PLANNING & ZONING COMMISSION, CHAIRMAN \_\_\_\_\_ DIRECTOR OF PLANNING AND ZONING \_\_\_\_\_

Scale: 1" = 30'

Designed by: JUV

Drawn by: DRS

Checked by: JUV

Date: 10/20/2023

DEVELOPER:  
KENNOR ROCKWALL RETAIL, LLC  
8848 GREENVILLE AVE.  
DALLAS, TEXAS 75243

LANDSCAPE PLAN  
KENNOR ROCKWALL RETAIL  
LOT 8R, BLOCK A  
DALTON GOLIAD ADDITION  
CITY OF ROCKWALL, TX

IRRIGATION WILL MEET THE REQUIREMENTS OF THE UNIFIED DEVELOPMENT CODE (UDC). (SUBSECTION 05.04, OF ARTICLE 08)

NO EXISTING TREES ON SITE.

VASQUEZ ENGINEERING, L.L.C.  
1919 S. Shiloh Road  
Suite 440, LB 44  
Garland, Texas 75042  
Ph: 972-272-2948  
TX Registration # F-12286

REGISTERED LANDSCAPE ARCHITECT  
AMANDA W. RICHARDS  
STATE OF TEXAS  
2754

SHEET  
L1.1



SECTION 32 8300 - LANDSCAPE  
PART 1 - GENERAL

- 1.1 QUALIFICATIONS OF THE LANDSCAPE CONTRACTOR.
  - A. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING
- 1.2 REFERENCE DOCUMENTS
  - A. REFER TO LANDSCAPE PLANS, NOTES, SCHEDULES AND DETAILS FOR ADDITIONAL REQUIREMENTS
- 1.3 SCOPE OF WORK / DESCRIPTION OF WORK
  - A. WORK COVERED BY THESE SECTIONS INCLUDES: FURNISH ALL SUPERVISIONS, LABOR, MATERIALS, SERVICES, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE THE WORK COVERED IN CONJUNCTION WITH THE LANDSCAPING COVERED IN LANDSCAPE PLANS AND SPECIFICATIONS INCLUDING:
    1. PLANTING (TREES, SHRUBS, GRASSES)
    1. BED PREP AND FERTILIZATION
    3. NOTIFICATION OF SOURCES
    4. WATER AND MAINTENANCE UNTIL ACCEPTANCE
    5. GUARANTEE
  - B. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS
  - C. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK
- 1.4 REFERENCES
  - A. AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY AMERICAN ASSOCIATION OF NURSERYMEN; 27 OCTOBER 1980, EDITION; BY AMERICAN NATIONAL STANDARDS INSTITUTE (290.1) - PLANT MATERIALS
  - B. AMERICAN JOINT COMMITTEE ON HORTICULTURE NOMENCLATURE; 1942 EDITION OF STANDARDIZED PLANT NAMES
  - C. TEXAS ASSOCIATION OF NURSERYMEN, GRADES AND STANDARDS
- 1.5 SUBMITTALS
  - A. PROVIDE REPRESENTATIVE QUANTITIES OF EACH SOIL, MULCH, BED MIX, GRAVEL AND STONE BEFORE INSTALLATION. SAMPLES TO BE APPROVED BY OWNERS REPRESENTATIVE BEFORE USE.
  - B. SOIL AMENDMENTS AND FERTILIZERS SHOULD BE RESEARCHED AND BASED ON THE SOILS IN THE AREA.
  - C. BEFORE INSTALLATION, SUBMIT DOCUMENTATION THAT PLANT MATERIALS ARE AVAILABLE AND HAVE BEEN RESERVED. FOR ANY PLANT MATERIAL NOT AVAILABLE, SUBMIT REQUEST FOR SUBSTITUTION.
- 1.6 JOB CONDITIONS, DELIVERY, STORAGE AND HANDLING
  - A. GENERAL CONTRACTOR TO COMPLETE WORK BEFORE LANDSCAPE CONTRACTOR TO COMMENCE.
  - B. ALL PLANTING BED AREAS SHALL BE LEFT THREE INCHES BELOW FINAL GRADE OF SIDEWALKS, DRIVES AND CURBS. ALL AREAS TO RECEIVE SOLID SOIL SHALL BE LEFT ONE INCH BELOW THE FINAL GRADE OF WALKS, DRIVES AND CURBS. CONSTRUCTION DEBRIS SHALL BE REMOVED PRIOR TO LANDSCAPE CONTRACTOR BEGINNING WORK
  - C. STORAGE OF MATERIALS AND EQUIPMENT AT THE JOB SITE WILL BE AT THE RISK OF THE LANDSCAPE CONTRACTOR. THE OWNER CANNOT BE HELD RESPONSIBLE FOR THEFT OR DAMAGE.
- 1.7 SEQUENCING
  - A. INSTALL TREES, SHRUBS, AND LINER STOCK PLANT MATERIALS PRIOR TO INSTALLATION OF LAWN/SOLID SOIL
  - B. WHERE EXISTING TURF AREAS ARE BEING CONVERTED TO PLANTING BEDS, THE TURF SHALL BE CHEMICALLY ERADICATED TO PREVENT RE-GROWTH IN THE FUTURE. AREAS SHALL BE PROPERLY PREPARED WITH AMENDED ORGANIC MATTER.
- 1.8 MAINTENANCE AND GUARANTEE

- MAINTENANCE:
- A. THE LANDSCAPE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK FROM THE TIME OF PLANTING UNTIL FINAL ACCEPTANCE BY OWNER.
  - B. NO TREES, GRASS, GROUND COVER OR GRASS WILL BE ACCEPTED UNLESS THEY SHOW HEALTHY GROWTH AND SATISFACTORY FOLIAGE CONDITIONS.
  - C. MAINTENANCE SHALL INCLUDE WATERING OF TREES AND PLANTS, CULTIVATION, WEED SPRAYING, EDGING, PRUNING OF TREES, MOVING OF GRASS, CLEANING UP AND ALL OTHER WORK NECESSARY FOR MAINTENANCE.
  - D. A WRITTEN NOTICE REQUESTING FINAL INSPECTION AND ACCEPTANCE SHOULD BE SUBMITTED TO THE OWNER AT LEAST 7 DAYS PRIOR TO COMPLETION, AN ON SITE INSPECTION BY THE OWNERS AUTHORIZED REPRESENTATIVE WILL BE COMPLETED PRIOR TO WRITTEN ACCEPTANCE.
  - E. NOTIFY OWNER OR OWNERS REPRESENTATIVE SEVEN DAYS PRIOR TO THE EXPIRATION OF THE WARRANTY PERIOD.
  - F. REMOVE DEAD, UNHEALTHY AND UNDESIRABLE PLANTS DURING WARRANTY PERIOD
  - G. REMOVE GUYING AND STAKING MATERIALS AFTER ONE YEAR
  - H. ALL LANDSCAPE MUST BE MAINTAINED AND GRASS MOVED/EDGED ON A WEEKLY SCHEDULE UNTIL ACCEPTANCE BY OWNER. REMOVE CLIPPINGS AND DEBRIS FROM SITE PROMPTLY.
  - I. REMOVE TRASH, DEBRIS, AND LITTER. WATER, PRUNE, RESTAKE TREES, FERTILIZE, WEED AND APPLY HERBICIDES AND FUNGICIDES AS REQUIRED.
  - J. COORDINATE THE OPERATION OF IRRIGATION SYSTEM TO ENSURE THAT PLANTS ARE ADEQUATELY WATERED. HAND WATER AREAS NOT RECEIVING ADEQUATE WATER FROM AN IRRIGATION SYSTEM.
  - K. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN ACCORDANCE TO THE MAINTENANCE SERVICE TO ENSURE THE SYSTEM IS IN PROPER WORKING ORDER WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
  - L. REAPPLY MULCH TO BARE AND THIN AREAS.
  - M. SHOULD SEED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF GRASS AT NO ADDITIONAL COST TO THE OWNER.
  - N. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
    - a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
    - b. ALL LANDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
    - c. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESEEDED OR SODED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE HEAVILY MOWED.

- GUARANTEES:
- A. TREES, SHRUBS, GROUND COVER SHALL BE GUARANTEED (IN WRITING) FOR A 12 MONTH PERIOD (90 DAYS FOR ANNUAL PLANTING OR AT THE END OF THE SEASONAL COLOR GROWING SEASON, WHICHEVER COMES SOONER) AFTER FINAL ACCEPTANCE. THE CONTRACTOR SHALL REPLACE ALL DEAD MATERIALS AS SOON AS WEATHER PERMITS AND UPON NOTIFICATION OF THE OWNER.
  - B. PLANTS INCLUDING TREES, WHICH HAVE PARTIALLY DIED SO THAT SHAPE, SIZE OR SYMMETRY HAVE BEEN DAMAGED SHALL BE CONSIDERED SUBJECT TO REPLACEMENT. IN SUCH CASES, THE OPINION OF THE OWNER SHALL BE FINAL.
  - C. PLANTS USED FOR REPLACEMENT SHALL BE OF THE SAME SIZE AND KIND AS THOSE ORIGINALLY PLANTED OR SPECIFIED. ALL WORK INCLUDING MATERIALS, LABOR AND EQUIPMENT USED IN REPLACEMENTS SHALL CARRY A 12 MONTH GUARANTEE. ANY DAMAGE INCLUDING RITS IN LAWN OR BED AREAS INCURRED AS A RESULT OF MAKING REPLACEMENTS SHALL BE IMMEDIATELY REPAIRED.
  - D. WHEN PLANT REPLACEMENTS ARE MADE, PLANTS, SOIL MIX, FERTILIZER AND MULCH ARE TO BE UTILIZED AS ORIGINALLY SPECIFIED AND REINSPECTED FOR FULL COMPLIANCE WITH THE CONTRACT REQUIREMENTS. ALL REPLACEMENTS ARE INCLUDED UNDER WORK OF THIS SECTION.
  - E. THE OWNER AGREES THAT FOR THE ONE YEAR WARRANTY PERIOD TO BE EFFECTIVE, HE WILL WATER PLANTS AT LEAST TWICE A WEEK DURING DRY PERIODS.
  - F. THE ABOVE GUARANTEE SHALL NOT APPLY WHERE PLANTS DIE AFTER ACCEPTANCE BECAUSE OF DAMAGE DUE TO ACTS OF GOD, VANDALISM, INSECTS, DISEASE, INJURY BY HUMANS, MACHINES, THEFT OR NEGLIGENCE BY OWNER.
  - G. ACCEPTANCE FOR ALL LANDSCAPE WORK SHALL BE GIVEN AFTER FINAL INSPECTION BY THE OWNER PROVIDED THE JOB IS IN A COMPLETELY UNDAMAGED CONDITION AND THERE IS A STAND OF GRASS IN ALL LAWN AREAS. AT THAT TIME, THE OWNER WILL ASSUME MAINTENANCE ON THE ACCEPTED WORK.

- 1.9 QUALITY ASSURANCE
- A. COMPLY WITH ALL FEDERAL, STATE, COUNTY AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK.
  - B. EMPLOY PERSONNEL COMPETENT AND FAMILIAR WITH THE REQUIRED WORK AND SUPERVISION BY A FOREMAN.
  - C. MAKE CONTACT WITH SUPPLIERS IMMEDIATELY UPON OBTAINING NOTICE OF CONTRACT ACCEPTANCE TO SELECT AND BOOK MATERIALS.

- D. DEVELOP A PROGRAM OF MAINTENANCE PRUNING AND FERTILIZATION WHICH WILL ENSURE THE PURCHASED MATERIALS WILL MEET AND/OR EXCEED PROJECT SPECIFICATIONS.
  - E. DO NOT MAKE PLANT MATERIAL SUBSTITUTIONS, IF THE LANDSCAPE MATERIAL SPECIFIED IS NOT READILY AVAILABLE, SUBMIT PROOF TO LANDSCAPE ARCHITECT ALONG WITH THE PROPOSED MATERIAL TO BE USED IN LIEU OF THE SPECIFIED PLANT.
  - F. AT THE TIME BIDS ARE SUBMITTED, THE CONTRACTOR IS ASSUMED TO HAVE LOCATED THE MATERIALS NECESSARY TO COMPLETE THE JOB AS SPECIFIED.
  - G. OWNERS REPRESENTATIVE SHALL INSPECT ALL PLANT MATERIAL AND RETAINS THE RIGHT TO INSPECT MATERIALS UPON ARRIVAL TO THE SITE AND DURING INSTALLATION. THE OWNERS REPRESENTATIVE MAY ALSO REJECT ANY MATERIALS HE/SH/FEELS TO BE UNSATISFACTORY DURING THE WORK PROCESS. ALL PLANTS DAMAGED IN TRANSIT OR AT THE JOB SITE SHALL BE REJECTED.
- 1.10 PRODUCT DELIVERY, STORAGE AND HANDLING
- A. PREPARATION
    1. BALLED AND BURLAPPED B&B PLANTS: DIG AND PREPARE SHIPMENT IN A MANNER THAT WILL NOT DAMAGE ROOTS. BRANCHES SHOULD BE PROTECTED WITH BURLAP.
    2. CONTAINER GROWN PLANTS: DELIVER PLANTS IN RIGID CONTAINER TO HOLD BALL SHAPE AND PROTECT ROOT MASS.
  - B. DELIVERY
    1. DELIVER PACKAGED MATERIALS IN SEALED CONTAINERS SHOWING WEIGHT, ANALYSIS AND NAME OF MANUFACTURER. PROTECT MATERIALS FROM DETERIORATION DURING DELIVERY AND WHILE STORED ON SITE.
    2. DELIVER ONLY PLANT MATERIALS THAT CAN BE INSTALLED IN ONE DAY UNLESS ADEQUATE STORAGE AND WATERING FACILITIES ARE AVAILABLE ON SITE.
    3. PROTECT ROOT BALLS BY HEELING IN WITH SAWDUST OR OTHER APPROVED MOISTURE RETAINING MATERIAL, IF NOT PLANTED WITHIN 24 HOURS OF DELIVERY.
    4. PROTECT PLANTS DURING DELIVERY TO PREVENT DAMAGE TO ROOT BALL OR DESICCATION OF LEAVES.
    5. KEEP PLANTS MOIST AT ALL TIMES. COVER ALL MATERIALS DURING TRANSPORT.
    6. NOTIFY OWNERS REPRESENTATIVE OF DELIVERY 72 HOURS PRIOR TO DELIVERY OF PLANT MATERIAL AT JOB SITE.
    7. REMOVE REJECTED PLANT MATERIAL IMMEDIATELY FROM JOB SITE.
    8. TO AVOID DAMAGE OR STRESS, DO NOT LIFT OR MOVE PLANTS TO PLUMB, OR OTHERWISE MANIPULATE PLANTS BY TRUNK OR STEMS.

- PART 2 - PRODUCTS
- 2.1 PLANT MATERIALS
- A. GENERAL WELL FORMED NO. 1 GRADE OR BETTER NURSERY GROWN STOCK. LISTED PLANT HEIGHTS ARE FROM TOPS OF FOOT BALLS TO NOMINAL TOPS OF PLANTS. PLANT SPREAD REFERS TO NOMINAL CROWN WIDTH OF THE PLANT NOT THE OUTER LEAF TIPS. PLANTS SHALL BE INDIVIDUALLY APPROVED BY THE OWNERS REPRESENTATIVE AND THEIR ACCEPTANCE AS TO THEIR ACCEPTABILITY SHALL BE FINAL.
  - B. QUANTITIES: THE DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. ANYTHING CALLED FOR ON ONE AND NOT THE OTHER IS AS BINDING AS IF SHOWN AND CALLED FOR ON BOTH. THE PLANT SCHEDULE IS AN AD TO BIDDERS ONLY. CONFIRM ALL QUANTITIES ON PLAN.
  - C. QUANTITIES AND SIZE: PLANT MATERIALS SHALL CONFORM TO THE SIZE GIVEN ON THE PLAN AND SHALL BE HEALTHY, WELL SHAPED, FULL BRANCHED AND WELL ROOTED. SYMMETRY IS ALSO IMPERATIVE. PLANTS SHALL BE FREE FROM INSECTS, INJURY, DISEASE, BROKEN BRANCHES, DISFIGUREMENTS, INSECT EGGS AND ARE TO BE OF SPECIFIC QUALITY.
  - D. APPROVAL: ALL PLANTS WHICH ARE FOUND UNSUITABLE IN GROWTH OR ARE UNHEALTHY, BADLY SHAPED OR UNDERGROWN WILL BE REJECTED BY THE OWNERS REPRESENTATIVE EITHER BEFORE OR AFTER PLANTING AND SHALL BE REMOVED AT THE EXPENSE OF THE LANDSCAPE CONTRACTOR AND REPLACED WITH ACCEPTABLE SPECIMENS.
  - E. TREES SHALL BE HEALTHY, FULL BRANCHED, WELL SHAPED AND SHALL MEET THE MINIMUM REQUIREMENTS AS SPECIFIED ON THE PLANT SCHEDULE. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE IF POSSIBLE, AND WITH SIMILAR CLIMATIC CONDITIONS.
  - F. PRUNING: ALL PRUNING OF TREES AND SHRUBS SHALL BE EXECUTED BY THE LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER, PRIOR TO FINAL ACCEPTANCE.
  - G. PLANTS SHALL CONFORM TO THE MEASUREMENTS SPECIFIED, EXCEPT THE PLANTS LARGER THAN THOSE SPECIFIED MAY BE USED. USE OF LARGER PLANTS SHALL NOT INCREASE THE CONTRACT PRICE.
  - H. WHERE MATERIALS ARE PLANTED IN MASSES, PROVIDE PLANTS OF UNIFORM SIZE.
  - I. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED, FIBROUS ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCRUSTING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
  - J. ALL TREES SHALL BE STANDARD IN FORM UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
  - K. TREE TRUNKS TO BE STURDY, EXHIBIT HARDENED SYSTEMS AND VIGOROUS AND FIBROUS ROOT SYSTEMS, NOT ROOT OR POT BOUND.
  - L. TREES WITH DAMAGED OR CROOKED LEADERS, BARK ABRASIONS, SUNSCALD, DISFIGURING KNOTS, OR INSECT DAMAGE WILL BE REJECTED.
  - M. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
  - N. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL.
  - O. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
  - P. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH Pallet of SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.

- 2.2 SOIL PREPARATION MATERIALS
- A. SANDY LOAM:
    1. FRIBBLE, FERTILE, DARK, LOAMY SOIL, FREE OF CLAY LUMPS, SUBSOIL, STONES AND OTHER EXTRANEUS MATERIAL AND REASONABLY FREE OF WEEDS AND LOAM CONTAINING DALL/GRASS OR NUTGRASS SHALL BE REJECTED.
    2. PHYSICAL PROPERTIES AS FOLLOWS:
      - a. CLAY - BETWEEN 1-27%
      - b. SILT - BETWEEN 15-25%
      - c. SAND - LESS THAN 52%
    3. ORGANIC MATTER SHALL BE 3%-10% TOTAL DRY WEIGHT.
    4. IF REQUESTED, LANDSCAPE CONTRACTOR SHALL PROVIDE A CERTIFIED SOIL ANALYSIS CONDUCTED BY AN APPROVED SOIL TESTING LABORATORY VERIFYING THAT SANDY LOAM MEETS THE ABOVE REQUIREMENTS.
  - B. ORGANIC MATERIAL: COMPOST WITH A MIXTURE OF 80% VEGETATIVE MATTER AND 20% ANIMAL WASTE. INGREDIENTS SHOULD BE A MIX OF COURSE AND FINE TEXTURED MATERIAL.
  - C. PREMIXED BEDDING SOIL AS SUPPLIED BY VITAL EARTH RESOURCES; GLADEWATER, TEXAS; PROFESSIONAL BEDDING SOIL AS SUPPLIED BY LIVING EARTH TECHNOLOGY, DALLAS, TEXAS OR ACID GRIFF MUNICIPAL MIX AS SUPPLIED BY SOIL BUILDING SYSTEMS, DALLAS, TEXAS, OR APPROVED EQUIVALENT.
  - D. SHARP SAND: SHARP SAND MUST BE FREE OF SEEDS, SOIL PARTICLES AND WEEDS.
  - E. MULCH: DOUBLE SHREDDED HARDWOOD MULCH, PARTIALLY DECOMPOSED, DARK BROWN.
  - F. ORGANIC FERTILIZER: FERTILIAID, SUSTANE, OR GREEN SENSE OR EQUAL AS RECOMMENDED FOR REQUIRED APPLICATIONS. FERTILIZER SHALL BE DELIVERED TO THE SITE IN ORIGINAL UNOPENED CONTAINERS, EACH BEARING THE MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.
  - G. COMMERCIAL FERTILIZER: 10-20-10 OR SIMILAR ANALYSIS. NITROGEN SOURCE TO BE A MINIMUM 50% SLOW RELEASE ORGANIC NITROGEN (SOU OR IPI) WITH A MINIMUM 8% SULFUR AND 4% IRON, PLUS MICRONUTRIENTS.
  - H. FEAT: COMMERCIAL SPHAGNUM FEAT MOSS OR PARTIALLY DECOMPOSED SHREDDED FINE BARK OR OTHER APPROVED ORGANIC MATERIAL.

- 2.3 MISCELLANEOUS MATERIALS
- A. STEEL EDGING SHALL BE 3/16" X 4" X 16" DARK GREEN LANDSCAPE EDGING. DURADEGEE STEEL OR APPROVED EQUAL.
  - B. TREE STAKING - TREE STAKING SOLUTIONS OR APPROVED SUBSTITUTE; REFER TO DETAILS.
  - C. FILTER FABRIC - MIRAFI 1405 BY MIRAFI INC. OR APPROVED SUBSTITUTE, AVAILABLE AT LONE STAR PRODUCTS, INC. (469-523-0444)
  - D. SAND - UNIFORMLY GRADED, WASHED, CLEAN, BAKN RUN SAND.
  - E. GRAVEL: WASHED NATIVE PEA GRAVEL, GRADED 1" TO 1.5"
  - F. DECOMPOSED GRANITE - BASE MATERIAL OF NATURAL MATERIAL MIX OF GRANITE AGGREGATE NOT TO EXCEED 1/8" IN DIAMETER COMPOSED OF VARIOUS STAGES OF DECOMPOSED EARTH BASE
  - G. RIVER ROCK - LOCALLY AVAILABLE NATIVE RIVER ROCK BETWEEN 2"-4" IN DIAMETER.
  - H. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT

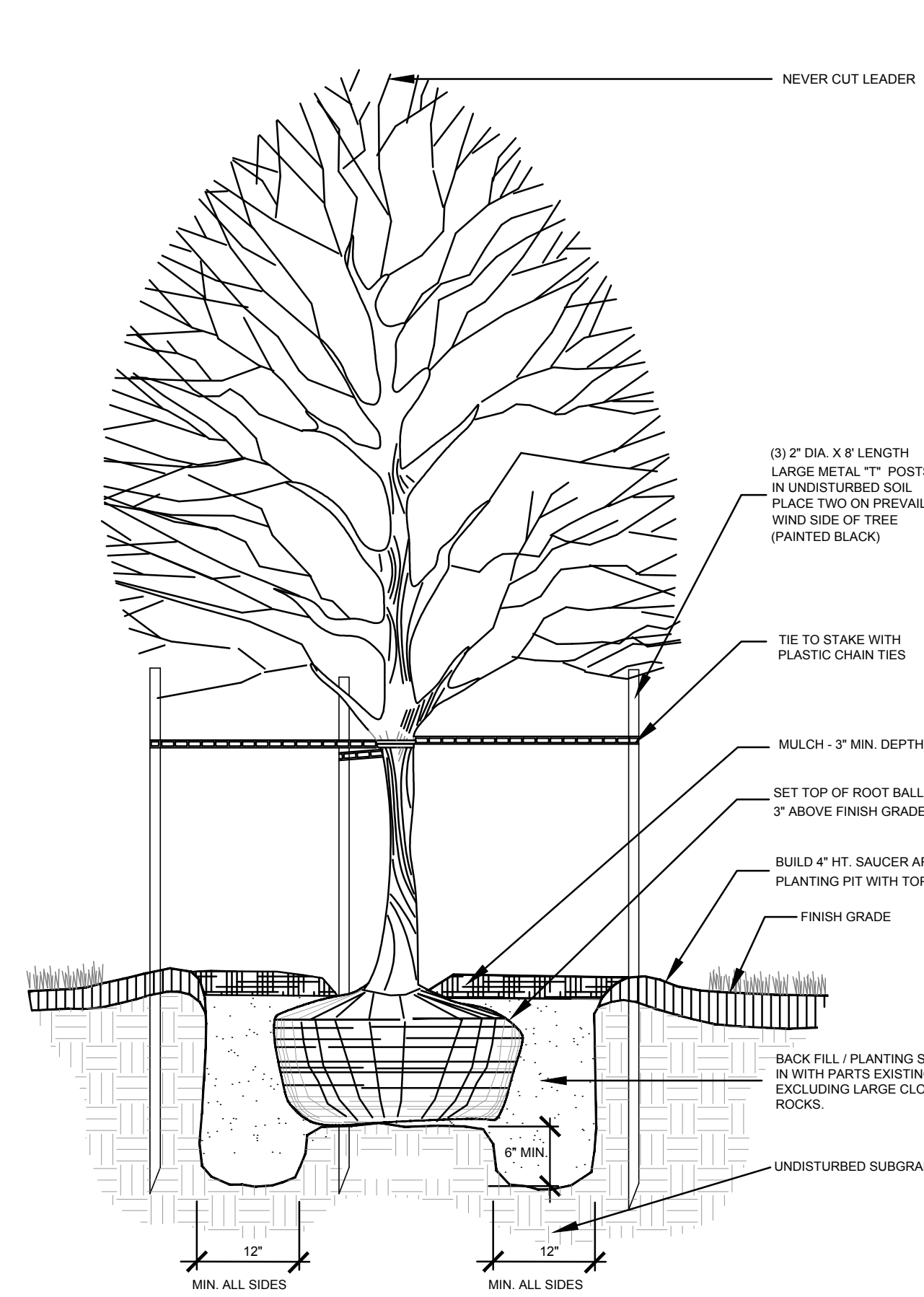
WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURERS LABELED RATES.

- PART 3 - EXECUTION
- 3.1 PREPARATION
- A. LANDSCAPE CONTRACTOR TO INSPECT ALL EXISTING CONDITIONS AND REPORT ANY DEFICIENCIES TO THE OWNER AS SOON AS POSSIBLE.
  - B. ALL PLANTING AREAS SHALL BE CONDITIONED AS FOLLOWS:
    1. PREPARE NEW PLANTING BEDS BY SCRAPING AWAY EXISTING GRASS AND WEEDS AS NECESSARY, TILL EXISTING SOIL TO A DEPTH OF SIX (6") INCHES PRIOR TO PLACING COMPOST AND FERTILIZER. APPLY FERTILIZER AS PER MANUFACTURER'S RECOMMENDATIONS. ADD SIX (6") INCHES OF COMPOST AND TILL INTO A DEPTH OF SIX (6") INCHES OF SPECIFIED MULCH (SETTLED THICKNESS).
    2. BACKFILL FOR TREE PITS SHALL BE AS FOLLOWS: USE EXISTING TOP SOIL ON SITE (USE IMPORTED TOPSOIL AS NEEDED) FREE FROM LARGE CLUMPS, ROCKS, DEBRIS, CALICHE, SUBSOILS, ETC., PLACED IN NINE (9") INCH LAYERS AND WATERED IN THOROUGHLY.
  - C. GRASS AREAS:
    1. BLOCKS OF SOD SHOULD BE LAID JOINT TO JOINT (STAGGERED JOINTS) AFTER FERTILIZING THE GROUND FIRST. ROLL GRASS AREAS TO ACHIEVE A SMOOTH, EVEN SURFACE. THE JOINTS BETWEEN THE BLOCKS OF SOD SHOULD BE FILLED WITH TOPSOIL WHERE THEY ARE GAPPED OPEN, THEN WATERED THOROUGHLY.

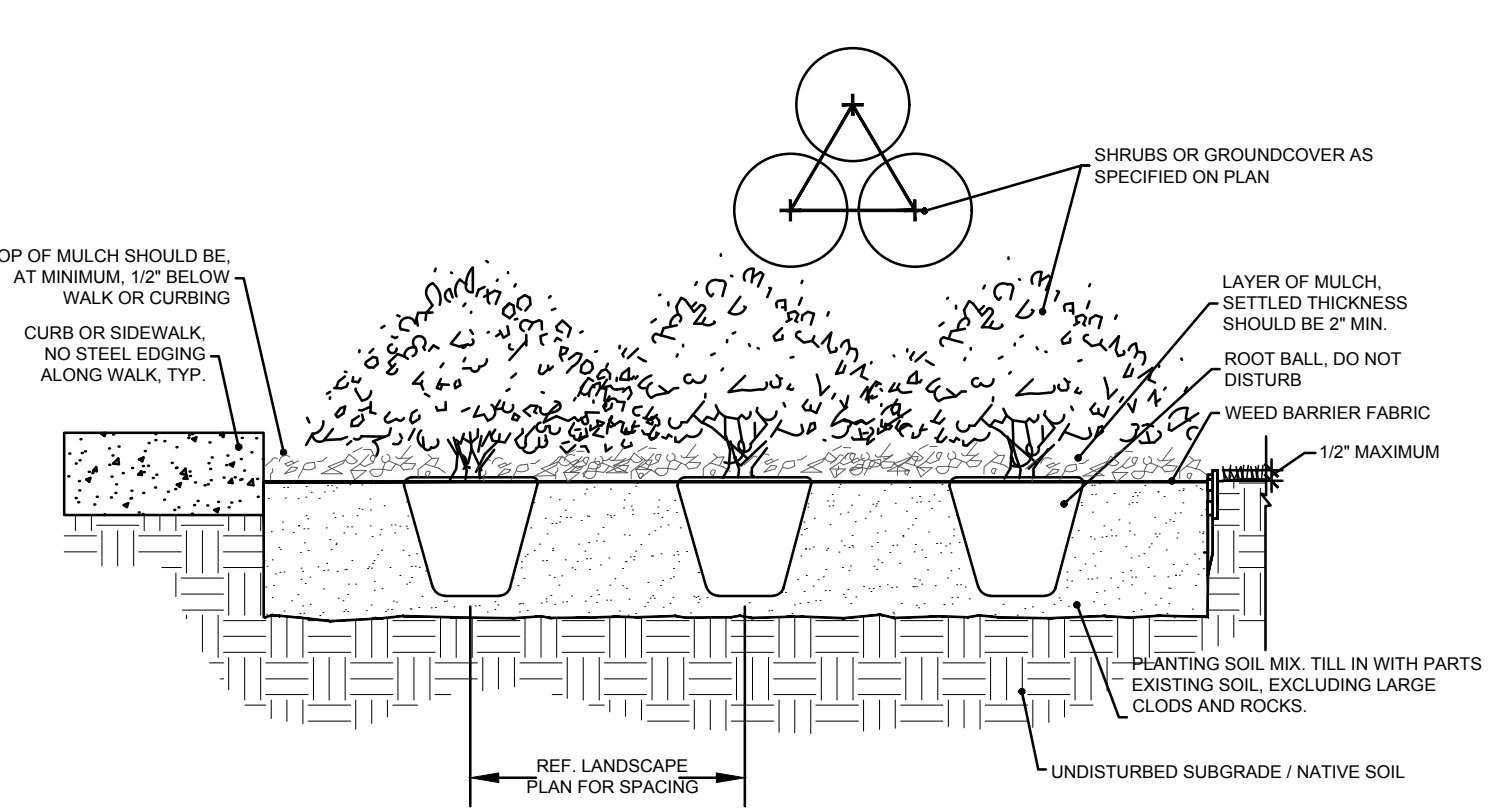
- 3.2 INSTALLATION
- A. MAINTENANCE OF PLANT MATERIALS SHALL BEGIN IMMEDIATELY AFTER EACH PLANT IS DELIVERED TO THE SITE AND SHALL CONTINUE UNTIL ALL CONSTRUCTION HAS BEEN SATISFACTORILY ACCOMPLISHED.
  - B. PLANT MATERIALS SHALL BE DELIVERED TO THE SITE ONLY AFTER THE BEDS ARE PREPARED AND AREAS ARE READY FOR PLANTING. ALL SHIPMENTS OF NURSERY MATERIALS SHALL BE THOROUGHLY PROTECTED FROM THE WINDS DURING TRANSPORT. ALL PLANTS WHICH CANNOT BE PLANTED AT ONCE, AFTER DELIVERY TO THE SITE, SHALL BE WELL PROTECTED AGAINST THE POSSIBILITY OF DRYING BY WIND AND BALLS OF EARTH OF B & B PLANTS SHALL BE KEPT COVERED WITH SOIL OR OTHER ACCEPTABLE MATERIAL UNTIL PLANTS REMAIN THE PROPERTY OF THE CONTRACTOR UNTIL FINAL ACCEPTANCE.
  - C. POSITION THE TREES AND SHRUBS IN THEIR INTENDED LOCATION AS PER PLAN.
  - D. NOTIFY THE OWNERS AUTHORIZED REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL POSITIONING OF PLANT MATERIALS.
  - E. EXCAVATE PITS WITH VERTICAL SIDES AND HORIZONTAL BOTTOM. TREE PITS SHALL BE LARGE ENOUGH TO PERMIT HANDLING AND PLANTING WITHOUT INJURY TO THE TREE. SHOULDER OF EARTH ON ROOTS AND SHALL BE SUCH DEPTH THAT WHEN PLANTED AND SETTLED, THE CROWN OF THE PLANT SHALL BEAR THE SAME RELATIONSHIP TO THE FINISH GRADE AS IT DID TO SOIL SURFACE IN ORIGINAL PLACE OF GROWTH. THE SIDES OF THE HOLE SHOULD BE ROUGH AND JAGGED, NEVER SMOOTH OR TIPPED.
  - F. SHRUB AND TREE PITS SHALL BE NO LESS THAN TWENTY-FOUR (24") INCHES WIDER THAN THE LATERAL DIMENSION OF THE EARTH BALL AND SIX (6") INCHES DEEPER THAN ITS VERTICAL DIMENSION. REMOVE AND HAUL FROM SITE ALL ROCKS AND STONES OVER THREE-QUARTER (3/4") INCH IN DIAMETER. PLANTS SHOULD BE THOROUGHLY MOIST BEFORE REMOVING CONTAINERS.
  - G. PERCOLATION TEST: FILL THE HOLE WITH WATER. IF THE WATER LEVEL DOES NOT PERCOLATE WITHIN 24 HOURS, THE TREE NEEDS TO MOVE TO ANOTHER LOCATION OR HAVE DRAINAGE ADDED. INSTALL A PVC STAND PIPE FURTHER IF THE PERCOLATION TEST FAILS.
  - H. BACKFILL ONLY WITH 5 PARTS EXISTING SOIL OR SANDY LOAM AND 1 PART BED PREPARATION. WHEN THE HOLE IS DUG IN SOLID ROCK, TOPSOIL FROM THE SAME AREA SHOULD NOT BE USED. CAREFULLY SETTLE BY WATERING TO PREVENT AIR POCKETS. REMOVE THE BURLAP FROM THE TOP 1/2 OF THE BALL, AS WELL AS ALL NYLON, PLASTIC STRING AND WIRE. CONTAINER TREES WILL USUALLY BE ROOT BOUND, IF SO FOLLOW STANDARD NURSERY PRACTICE OF "ROOT SCORING".
  - I. DO NOT WRAP TREES.
  - J. DO NOT OVER PRUNE.
  - K. REMOVE NURSERY TAGS AND STAKES FROM ALL PLANTS
  - L. REMOVE BOTTOM OF PLANT BOXES PRIOR TO PLACING PLANTS. REMOVE SIDES AFTER PLACEMENT AND PARTIAL BACKFILLING.
  - M. REMOVE UPPER THIRD OF BURLAP FROM BALLED AND BURLAPPED TREES AFTER PLACEMENT.
  - N. PLACE PLANT UPRIGHT AND PLUMB IN CENTER OF HOLE. ORIENT PLANTS FOR BEST APPEARANCE.
  - O. MULCH THE TOP OF THE BALL. DO NOT PLANT GRASS ALL THE WAY TO THE TRUNK OF THE TREE. LEAVE THE MULCH WITH THE TOP OF THE BALL AND MULCH WITH AT LEAST TWO (2") INCHES OF SPECIFIED MULCH.
  - P. ALL PLANT BEDS AND TREES TO BE MULCHED WITH A MINIMUM SETTLED 2" DEPTH OF MULCH. MULCH SHOULD BE APPLIED TO THE ENTIRE BED OR PIT. OBSTRUCTION BELOW GROUND. IN THE EVENT THAT ROCK, OR UNDERGROUND CONSTRUCTION WORK OR OBSTRUCTIONS ARE ENCOUNTERED IN ANY PLANT PIT EXCAVATION WORK TO BE DONE UNDER THIS SECTION, ALTERNATE LOCATIONS MAY BE SELECTED BY THE OWNER. WHERE LOCATIONS CANNOT BE CHANGED, THE OBSTRUCTIONS SHALL BE REMOVED TO A DEPTH OF NOT LESS THAN THREE (3) FEET BELOW GRADE AND NO LESS THAN SIX (6") INCHES BELOW THE BOTTOM OF BALL WHEN PLANT IS PROPERLY SET AT THE REQUIRED GRADE. THE WORK OF THIS SECTION SHALL INCLUDE THE REMOVAL FROM THE SITE OF SUCH ROCK OR UNDERGROUND OBSTRUCTIONS ENCOUNTERED AT THE COST OF THE LANDSCAPE CONTRACTOR.
  - Q. TREES AND LARGE SHRUBS SHALL BE STAKED AS SITE CONDITIONS REQUIRE. POSITION STAKES TO SECURE TREES AGAINST SEASONAL PREVAILING WINDS.
  - R. PRUNING AND MULCHING: PRUNING SHALL BE DIRECTED BY THE LANDSCAPE ARCHITECT AND SHALL BE PRUNED IN ACCORDANCE WITH STANDARD HORTICULTURAL PRACTICE FOLLOWING FINE PRUNING, CLASS I PRUNING STANDARDS PROVIDED BY THE NATIONAL ARBORIST ASSOCIATION.
    1. DEAD WOOD, SUCKERS, BROKEN AND BADLY BRUSED BRANCHES SHALL BE REMOVED. GENERAL TIPPING OF THE BRANCHES IS NOT PERMITTED. DO NOT CUT TERMINAL BRANCHES.
    2. PRUNING SHALL BE DONE WITH CLEAN, SHARP TOOLS.
    3. IMMEDIATELY AFTER PLANTING OPERATIONS ARE COMPLETED, ALL TREE PITS SHALL BE COVERED WITH A LAYER OF ORGANIC MATERIAL TWO (2") INCHES IN DEPTH. THIS LIMIT OF THE ORGANIC MATERIAL FOR TREES SHALL BE THE DIAMETER OF THE PLANT PIT.
  - S. STEEL EDGE INSTALLATION: EDGE SHALL BE ALIGNED AS INDICATED ON PLANS. STAKE OUT LIMITS OF STEEL CURBING AND OBTAIN OWNERS APPROVAL PRIOR TO INSTALLATION.
    1. ALL STEEL CURBING SHALL BE FREE OF KINKS AND ABRUPT BENDS.
    2. TOP OF EDGING SHALL BE 2" MAXIMUM HEIGHT ABOVE FINAL FINISHED GRADE.
    3. STAKES ARE TO BE INSTALLED ON THE PLANTING BED SIDE OF THE CURBING, AS OPPOSED TO THE GRASS SIDE.
    4. DO NOT INSTALL STEEL EDGING ALONG SIDEWALKS OR CURBS.
    5. CUT STEEL EDGING AT 45 DEGREE ANGLE WHERE EDGING MEETS SIDEWALKS OR CURBS.

- 3.3 CLEANUP AND ACCEPTANCE
- A. CLEANUP: DURING THE WORK, THE PREMISES SHALL BE KEPT NEAT AND ORDERLY AT ALL TIMES. STORAGE AREAS FOR ALL MATERIALS SHALL BE SO ORGANIZED SO THAT THEY, TOO, ARE NEAT AND ORDERLY. ALL TRASH AND DEBRIS SHALL BE REMOVED FROM THE SITE AS WORK PROGRESSES. KEEP PAVED AREAS CLEAN BY SWEEPING OR HOSEING THEM AT THE END OF EACH WORK DAY.
  - B. REPAIR RITS, HOLES AND SCARES IN GROUND SURFACES.
  - C. ENSURE THAT WORK IS COMPLETE AND PLANT MATERIALS ARE IN VIGOROUS AND HEALTHY GROWING CONDITION.
  - D. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
  - E. WHENIF THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPAIR AND/OR REPAIR THE REJECTED WORK TO THE OWNERS SATISFACTION WITHIN 24 HOURS.
  - F. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.

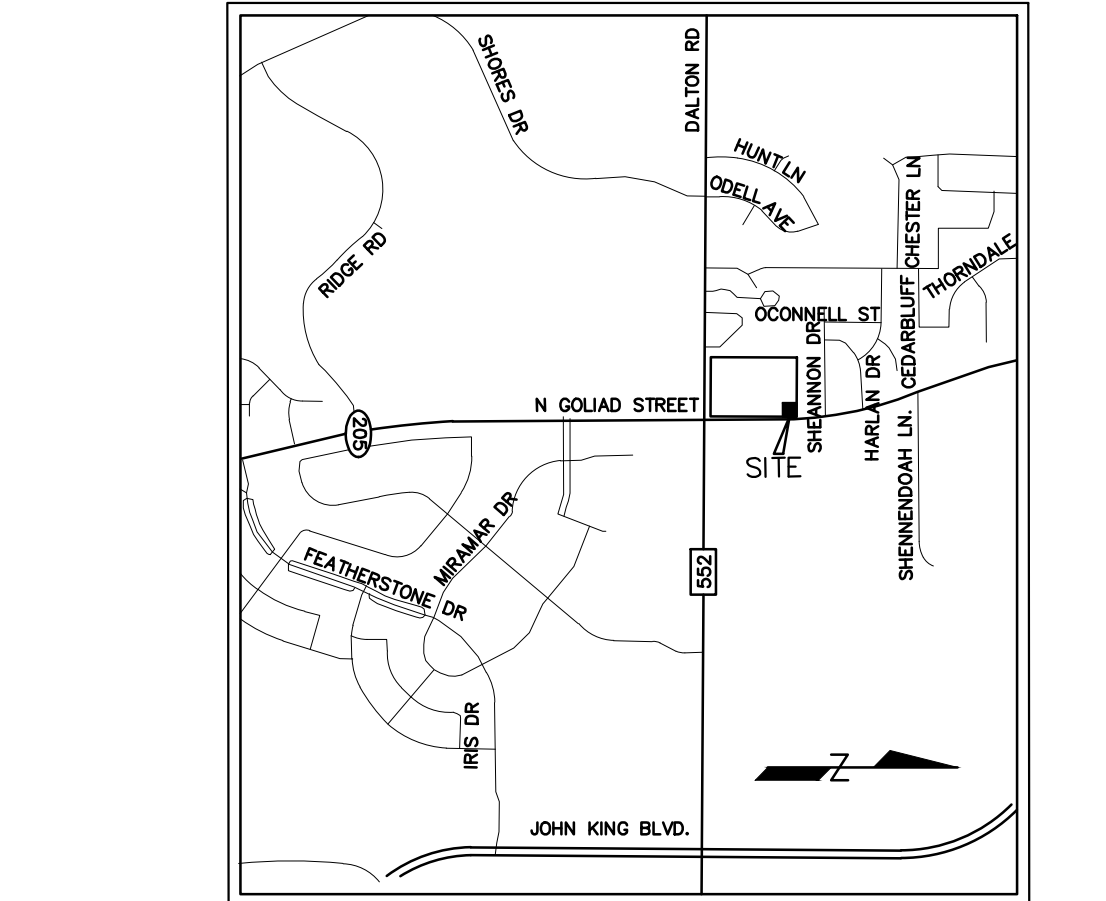
- END OF SECTION



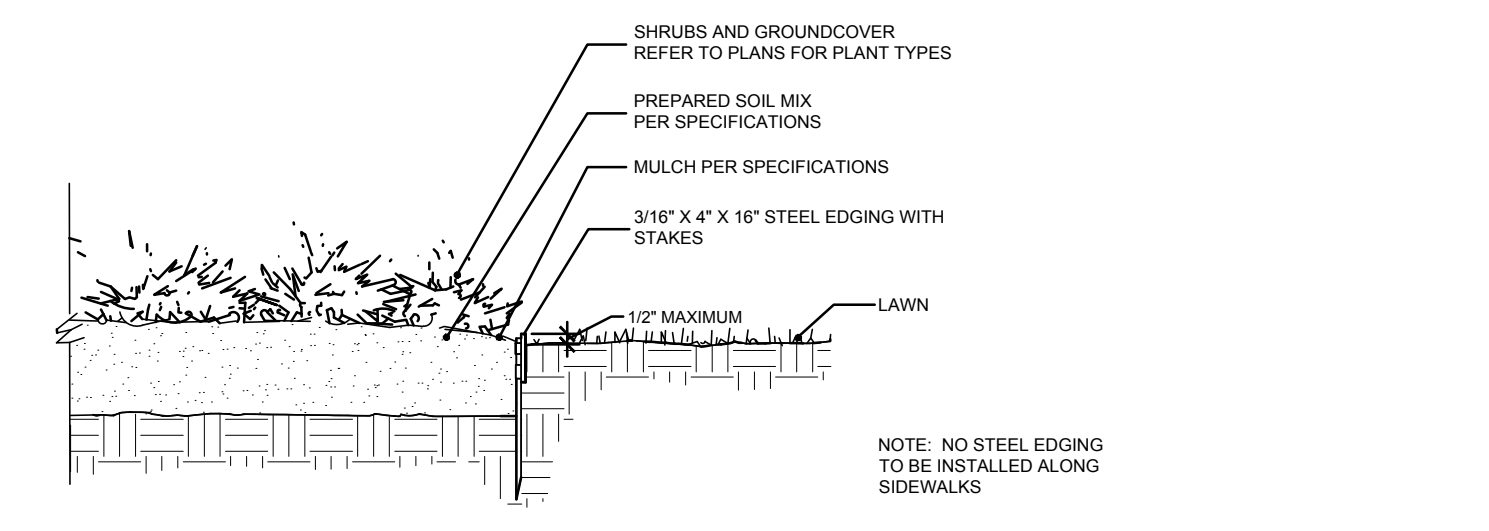
1 TREE PLANTING  
N.T.S.



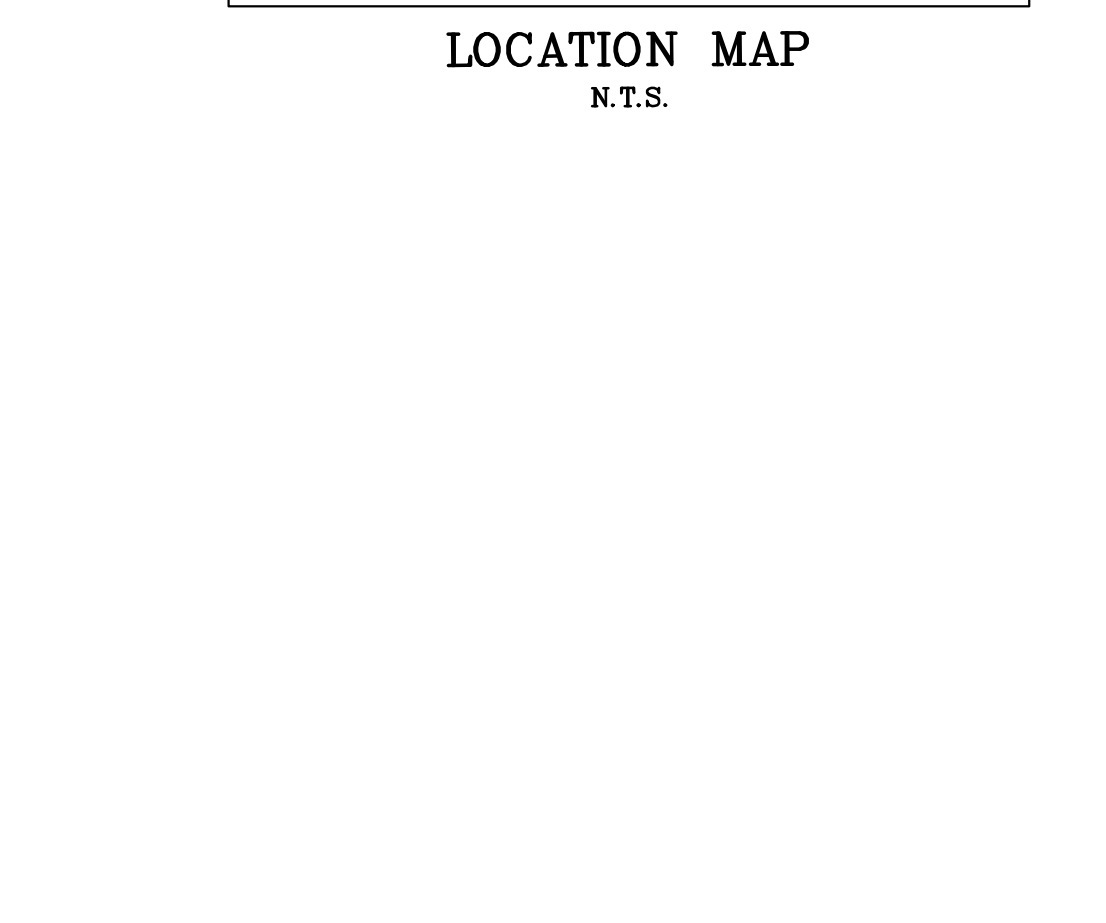
2 SHRUB PLANTING  
N.T.S.



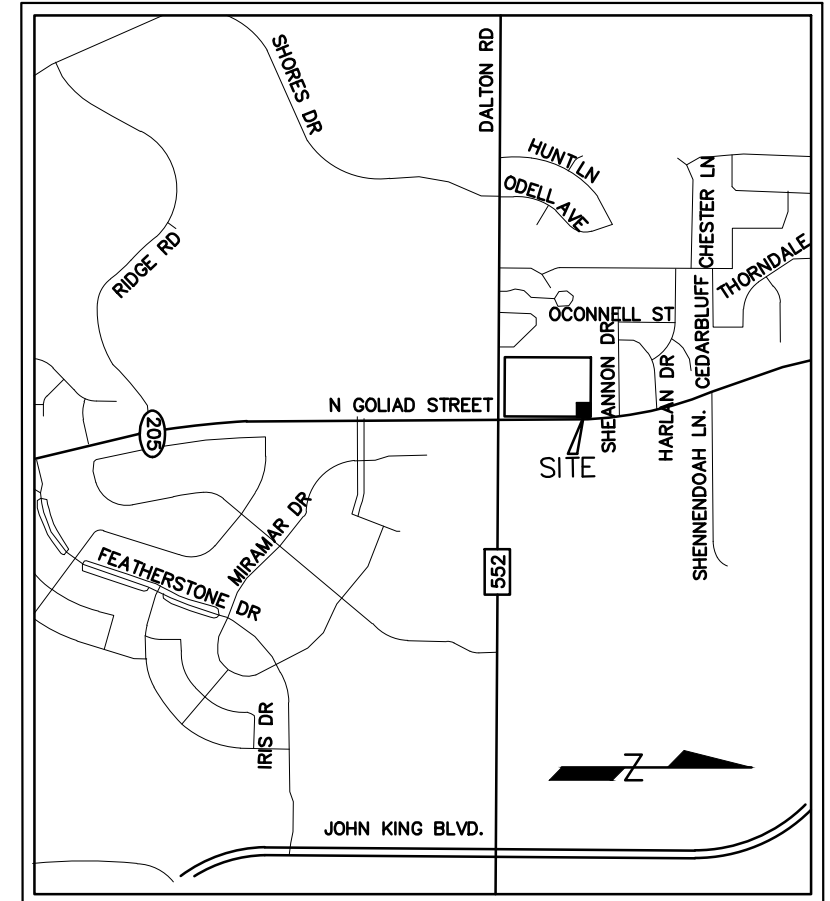
3 SHRUB SPACING AND PLANTING AT B.O.C.  
N.T.S.



4 STEEL EDGING DETAIL  
N.T.S.



5 DECOMPOSED GRANITE / RIVER ROCK  
N.T.S.



LOCATION MAP  
N.T.S.

APPROVED:  
I HEREBY CERTIFY THAT THE ABOVE AND FOREGOING SITE PLAN FOR A DEVELOPMENT IN THE CITY OF ROCKWALL, TEXAS, WAS APPROVED BY THE PLANNING & ZONING COMMISSION OF THE CITY OF ROCKWALL ON THE \_\_\_\_ DAY OF \_\_\_\_\_, 20\_\_\_\_.

WITNESS OUR HANDS, THIS \_\_\_\_ DAY OF \_\_\_\_\_

PLANNING & ZONING COMMISSION, CHAIRMAN

DIRECTOR OF PLANNING AND ZONING



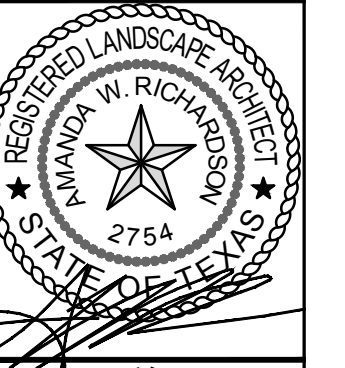
AWR Designs, LLC  
P.O. Box 1746  
Aledo, Texas 76008  
amanda@awr-designs.com  
c. 512.517.5589

OWNER/DEVELOPER:  
KENNOR ROCKWALL RETAIL, LLC.  
8848 GREENVILLE AVE.  
DALLAS, TEXAS 75243  
PHONE: 903-819-1208  
CONTACT: SHANE SHOULDERS

ENGINEER:  
VASQUEZ ENGINEERING, L.L.C.  
1919 S. SHILOH ROAD, SUITE 440  
GARLAND, TEXAS 75042  
PHONE: 972-272-4610  
CONTACT: JUAN J. VASQUEZ, P.E.

LANDSCAPE SPECS AND DETAILS  
KENNOR ROCKWALL RETAIL  
LOT 8R, BLOCK A  
DALTON GOLIAH ADDITION  
1.93 ACRES  
ROCKWALL, ROCKWALL COUNTY, TEXAS  
OCTOBER 20, 2023  
CASE #SP2023-0XX

Scale: 1" = 30'  
Designed by: JUV  
Drawn by: DRS  
Checked by: JUV  
720-010DWG/SITE PLANS/SITE PLAN.dwg  
Date: 10/20/2023



DEVELOPER:  
KENNOR ROCKWALL RETAIL, LLC  
8848 GREENVILLE AVE.  
DALLAS, TEXAS 75243

LANDSCAPE SPECS AND DETAILS  
KENNOR ROCKWALL RETAIL  
LOT 8R, BLOCK A  
DALTON GOLIAH ADDITION  
CITY OF ROCKWALL, TX.

1" = 30'  
Designed by: JUV  
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720-010DWG/SITE PLANS/SITE PLAN.dwg  
Date: 10/20/2023

SHEET  
L1.2





# D-Series Size 0 LED Area Luminaire



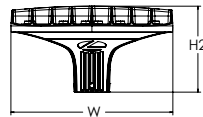
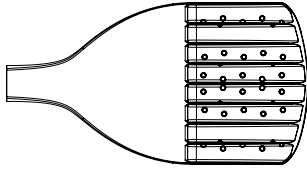
Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

d<sup>series</sup>

## Specifications

EPA:	0.44 ft <sup>2</sup> (0.04 m <sup>2</sup> )
Length:	26.18" (66.5 cm)
Width:	14.06" (35.7 cm)
Height H1:	2.26" (5.7 cm)
Height H2:	7.46" (18.9 cm)
Weight:	23 lbs (10.4 kg)



## Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications, with typical energy savings of 70% and expected service life of over 100,000 hours.

## Ordering Information

**EXAMPLE: DSX0 LED P6 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD**

DSX0 LED	Series	LEDs	Color temperature <sup>2</sup>	Color Rendering Index <sup>2</sup>	Distribution	Voltage	Mounting		
DSX0 LED	<b>Forward optics</b>	P1 P5	30K 3000K	70CRI	AFR Automotive front row	T5M Type V medium	MVOLT (120V-277V) <sup>4</sup>	<b>Shipped included</b>  SPA Square pole mounting (#8 drilling, 3.5" min. SQ pole)  RPA Round pole mounting (#8 drilling, 3" min. RND pole)  SPA5 Square pole mounting (#5 drilling, 3" min. SQ pole) <sup>9</sup>  RPA5 Round pole mounting (#5 drilling, 3" min. RND pole) <sup>9</sup>  SPA8N Square narrow pole mounting (#8 drilling, 3" min. SQ pole)  WBA Wall bracket <sup>10</sup>  MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)	
		P2 P6	40K 4000K	70CRI	T1S Type I short	T5LG Type V low glare	HVOLT (347V-480V) <sup>5,6</sup>		
		P3 P7	50K 5000K	70CRI	T2M Type II medium	T5W Type V wide	XVOLT (277V-480V) <sup>7,8</sup>		
		P4	(this section 80CRI only, extended lead times apply)		80CRI	T3M Type III medium	BLC3 Type III backlight control <sup>3</sup>		120 <sup>16,24</sup>
		P10 <sup>1</sup> P12 <sup>1</sup>	27K 2700K	T3LG Type III low glare <sup>3</sup>		BLC4 Type IV backlight control <sup>3</sup>	208 <sup>16,24</sup>		
		P11 <sup>1</sup> P13 <sup>1</sup>	30K 3000K	T4M Type IV medium		LCCO Left corner cutoff <sup>3</sup>	240 <sup>16,24</sup>		
		35K 3500K	T4LG Type IV low glare <sup>3</sup>	RCCO Right corner cutoff <sup>3</sup>		277 <sup>16,24</sup>			
		40K 4000K	TFTM Forward throw medium			347 <sup>16,24</sup>			
		50K 5000K				480 <sup>16,24</sup>			

Control options	Other options	Finish (required)
<p><b>Shipped installed</b></p> <p>NLTAIR2 PIRHN nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.<sup>11,12,18,19</sup></p> <p>PIR High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc.<sup>13,18,19</sup></p> <p>PER NEMA twist-lock receptacle only (controls ordered separate)<sup>14</sup></p> <p>PER5 Five-pin receptacle only (controls ordered separate)<sup>14,19</sup></p>	<p><b>Shipped installed</b></p> <p>PER7 Seven-pin receptacle only (controls ordered separate)<sup>14,19</sup></p> <p>FAO Field adjustable output<sup>15,19</sup></p> <p>BL30 Bi-level switched dimming, 30%<sup>16,19</sup></p> <p>BL50 Bi-level switched dimming, 50%<sup>16,19</sup></p> <p>DMG 0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately)<sup>17</sup></p> <p>HS Houseside shield (black finish standard)<sup>20</sup></p> <p>L90 Left rotated optics<sup>1</sup></p> <p>R90 Right rotated optics<sup>1</sup></p> <p>CCE Coastal Construction<sup>21</sup></p> <p>HA 50°C ambient operation<sup>22</sup></p> <p>BAA Buy America(n) Act Compliant</p> <p>SF Single fuse (120, 277, 347V)<sup>24</sup></p> <p>DF Double fuse (208, 240, 480V)<sup>24</sup></p> <p><b>Shipped separately</b></p> <p>EGSR External Glare Shield (reversible, field install required, matches housing finish)</p> <p>BSDB Bird Spikes (field install required)</p>	<p>DDBXD Dark Bronze</p> <p>DBLXD Black</p> <p>DNAXD Natural Aluminum</p> <p>DWHXD White</p> <p>DDBTXD Textured dark bronze</p> <p>DBLBXD Textured black</p> <p>DNATXD Textured natural aluminum</p> <p>DWHGXD Textured white</p>





## Ordering Information

### Accessories

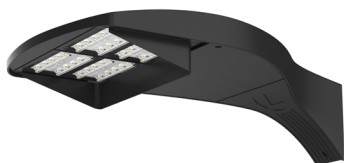
Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) <sup>23</sup>
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) <sup>23</sup>
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) <sup>23</sup>
DSHORT SBK	Shorting cap <sup>23</sup>
DSX0HS P#	House-side shield (enter package number P1-7, P10-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSX0EGSR (FINISH)	External glare shield (specify finish)
DSX0SDB (FINISH)	Bird spike deterrent bracket (specify finish)

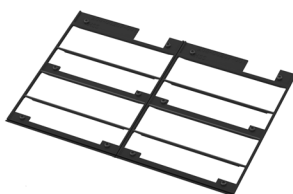
### NOTES

- 1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
- 2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
- 3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
- 4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- 6 HVOLT not available with package P1, P2 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
- 7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
- 8 XVOLT not available in packages P1, P2 or P10. XVOLT not available with fusing (SF or DF).
- 9 SPAS and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
- 10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
- 11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight Air 2.
- 12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50 and DMG. NLTAIR2 PIRHN not available with P1, P2 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1, P2 and P10 using XVOLT. NLTAIR2 PIRHN not available with P1 using MVOLT.
- 13 PIR not available with NLTAIR2, PER, PER5, PER7, FAO BL30, BL50 and DMG. PIR not available with P1, P2 and P10 using HVOLT. PIR not available with P1, P2 and P10 using XVOLT. PIR not available with P1 using MVOLT.
- 14 PER/PER5/PER7 not available with NLTAIR2, PIR, BL30, BL50. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- 15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, or DMG.
- 16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO and DMG. BL30 or BL50 must specify 120, 277 or 347V. Consult tech support for 208, 240 or 480V.
- 17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50 and FAO.
- 18 Reference Motion Sensor Default Settings table on page 4 to see functionality.
- 19 Reference Controls Options table on page 4.
- 20 Option HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- 21 CCE option not available with option B5 and EGSR. Contact Technical Support for availability.
- 22 Option HA not available with performance packages P6, P7, P12 and P13.
- 23 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
- 24 Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

## Shield Accessories



External Glare Shield (EGSR)

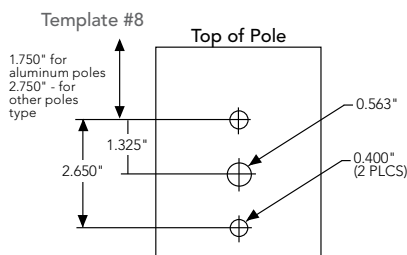
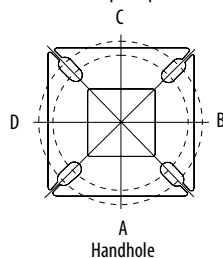


House Side Shield (HS)

## Drilling

### HANDHOLE ORIENTATION

(from top of pole)



### Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
Minimum Acceptable Outside Pole Dimension							
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPAS	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

### DSX0 Area Luminaire - EPA

\*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX0 with SPA	0.44	0.88	0.96	1.18	---	1.16
DSX0 with SPAS, SPA8N	0.51	1.02	1.06	1.26	---	1.29
DSX0 with RPA, RPA5	0.51	1.02	1.06	1.26	1.24	1.29
DSX0 with MA	0.64	1.28	1.24	1.67	1.70	1.93



Isofootcandle plots for the DSX0 LED P7 40K 70CRI. Distances are in units of mounting height (20').





## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier	
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
<b>25°C</b>	<b>77°C</b>	<b>1.00</b>
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.94
50,000	0.89
100,000	0.80

### FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

\*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use published values for each package based on input watts and lumens by optic type.

### Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A)					
					120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	20	530	34	0.28	0.16	0.14	0.12	0.10	0.07
	P2	20	700	45	0.38	0.22	0.19	0.16	0.13	0.09
	P3	20	1050	69	0.57	0.33	0.29	0.25	0.20	0.14
	P4	20	1400	94	0.78	0.45	0.39	0.34	0.27	0.19
	P5	40	700	89	0.75	0.43	0.38	0.33	0.26	0.19
	P6	40	1050	136	1.14	0.66	0.57	0.49	0.39	0.29
	P7	40	1300	170	1.42	0.82	0.71	0.62	0.49	0.36
Rotated Optics (Requires L90 or R90)	P10	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P11	30	700	67	0.57	0.33	0.28	0.25	0.20	0.14
	P12	30	1050	103	0.86	0.50	0.43	0.37	0.30	0.22
	P13	30	1300	129	1.07	0.62	0.54	0.46	0.37	0.27

### LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

### Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Photocell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

### Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PERS or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclipse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V



# Performance Data

## Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P1	33W	20	530	T1S	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157				
				T2M	4,545	1	0	2	137	4,736	1	0	2	143	4,829	1	0	2	145				
				T3M	4,597	1	0	2	138	4,791	1	0	2	144	4,885	1	0	2	147				
				T3LG	4,107	1	0	1	124	4,280	1	0	1	129	4,363	1	0	1	131				
				T4M	4,666	1	0	2	141	4,863	1	0	2	146	4,957	1	0	2	149				
				T4LG	4,244	1	0	1	128	4,423	1	0	1	133	4,509	1	0	1	136				
				TFTM	4,698	1	0	2	141	4,896	1	0	2	147	4,992	1	0	2	150				
				T5M	4,801	3	0	1	145	5,003	3	0	1	151	5,101	3	0	1	154				
				T5W	4,878	3	0	1	147	5,084	3	0	2	153	5,183	3	0	2	156				
				T5LG	4,814	2	0	1	145	5,018	2	0	1	151	5,115	2	0	1	154				
				BLC3	3,344	0	0	1	101	3,485	0	0	1	105	3,553	0	0	1	107				
				BLC4	3,454	0	0	2	104	3,599	0	0	2	108	3,670	0	0	2	111				
				RCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108				
				LCCO	3,374	0	0	1	102	3,517	0	0	1	106	3,585	0	0	1	108				
				AFR	4,906	1	0	1	148	5,113	1	0	1	154	5,213	1	0	1	157				
				P2	45W	20	700	T1S	6,328	1	0	1	140	6,595	1	0	1	146	6,724	1	0	1	149
								T2M	5,862	1	0	2	130	6,109	1	0	2	135	6,228	1	0	2	138
T3M	5,930	1	0					3	131	6,180	1	0	3	137	6,301	1	0	3	140				
T3LG	5,297	1	0					1	117	5,521	1	0	1	122	5,628	1	0	1	125				
T4M	6,018	1	0					3	133	6,272	1	0	3	139	6,395	1	0	3	142				
T4LG	5,474	1	0					1	121	5,705	1	0	1	126	5,816	1	0	1	129				
TFTM	6,060	1	0					3	134	6,316	1	0	3	140	6,439	1	0	3	143				
T5M	6,192	3	0					1	137	6,453	3	0	2	143	6,579	3	0	2	146				
T5W	6,293	3	0					2	139	6,558	3	0	2	145	6,686	3	0	2	148				
T5LG	6,210	2	0					1	138	6,472	3	0	1	143	6,598	3	0	1	146				
BLC3	4,313	0	0					2	96	4,495	0	0	2	100	4,583	0	0	2	102				
BLC4	4,455	0	0					2	99	4,643	0	0	2	103	4,733	0	0	2	105				
RCCO	4,352	0	0					2	96	4,536	0	0	2	100	4,624	0	0	2	102				
LCCO	4,352	0	0					2	96	4,536	0	0	2	100	4,624	0	0	2	102				
AFR	6,328	1	0					1	140	6,595	1	0	1	146	6,724	1	0	1	149				
P3	69W	20	1050					T1S	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139
								T2M	8,343	2	0	3	121	8,694	2	0	3	126	8,864	2	0	3	129
				T3M	8,439	2	0	3	122	8,795	2	0	3	128	8,967	2	0	3	130				
				T3LG	7,539	1	0	2	109	7,857	1	0	2	114	8,010	1	0	2	116				
				T4M	8,565	2	0	3	124	8,926	2	0	3	129	9,100	2	0	3	132				
				T4LG	7,790	1	0	2	113	8,119	1	0	2	118	8,277	1	0	2	120				
				TFTM	8,624	1	0	3	125	8,988	1	0	3	130	9,163	2	0	3	133				
				T5M	8,812	3	0	2	128	9,184	4	0	2	133	9,363	4	0	2	136				
				T5W	8,955	4	0	2	130	9,333	4	0	2	135	9,515	4	0	2	138				
				T5LG	8,838	3	0	1	128	9,211	3	0	1	134	9,390	3	0	1	136				
				BLC3	6,139	0	0	2	89	6,398	0	0	2	93	6,522	0	0	2	95				
				BLC4	6,340	0	0	3	92	6,607	0	0	3	96	6,736	0	0	3	98				
				RCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95				
				LCCO	6,194	1	0	2	90	6,455	1	0	2	94	6,581	1	0	2	95				
				AFR	9,006	1	0	2	131	9,386	1	0	2	136	9,569	1	0	2	139				
				P4	93W	20	1400	T1S	11,396	1	0	2	122	11,877	1	0	2	128	12,109	2	0	2	130
								T2M	10,557	2	0	3	113	11,003	2	0	3	118	11,217	2	0	3	121
T3M	10,680	2	0					3	115	11,130	2	0	3	120	11,347	2	0	3	122				
T3LG	9,540	1	0					2	103	9,942	1	0	2	107	10,136	1	0	2	109				
T4M	10,839	2	0					3	117	11,296	2	0	3	121	11,516	2	0	4	124				
T4LG	9,858	1	0					2	106	10,274	1	0	2	110	10,474	1	0	2	113				
TFTM	10,914	2	0					3	117	11,374	2	0	3	122	11,596	2	0	3	125				
T5M	11,152	4	0					2	120	11,622	4	0	2	125	11,849	4	0	2	127				
T5W	11,332	4	0					3	122	11,811	4	0	3	127	12,041	4	0	3	129				
T5LG	11,184	3	0					1	120	11,656	3	0	2	125	11,883	3	0	2	128				
BLC3	7,768	0	0					2	83	8,096	0	0	2	87	8,254	0	0	2	89				
BLC4	8,023	0	0					3	86	8,362	0	0	3	90	8,524	0	0	3	92				
RCCO	7,838	1	0					2	84	8,169	1	0	2	88	8,328	1	0	2	90				
LCCO	7,838	1	0					2	84	8,169	1	0	2	88	8,328	1	0	2	90				
AFR	11,396	1	0					2	122	11,877	1	0	2	128	12,109	2	0	2	130				



# Performance Data

## Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

Forward Optics																			
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K				
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P5	90W	40	700	T1S	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
				T2M	11,468	2	0	3	127	11,952	2	0	3	133	12,185	2	0	3	135
				T3M	11,601	2	0	3	129	12,091	2	0	3	134	12,326	2	0	4	137
				T3LG	10,363	2	0	2	115	10,800	2	0	2	120	11,011	2	0	2	122
				T4M	11,774	2	0	4	131	12,271	2	0	4	136	12,510	2	0	4	139
				T4LG	10,709	1	0	2	119	11,160	2	0	2	124	11,378	2	0	2	126
				TFTM	11,856	2	0	3	132	12,356	2	0	4	137	12,596	2	0	4	140
				T5M	12,114	4	0	2	134	12,625	4	0	2	140	12,871	4	0	2	143
				T5W	12,310	4	0	3	137	12,830	4	0	3	142	13,080	4	0	3	145
				T5LG	12,149	3	0	2	135	12,662	3	0	2	141	12,908	3	0	2	143
				BLC3	8,438	0	0	2	94	8,794	0	0	2	98	8,966	0	0	2	99
				BLC4	8,715	0	0	3	97	9,083	0	0	3	101	9,260	0	0	3	103
				RCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				LCCO	8,515	1	0	2	94	8,874	1	0	2	98	9,047	1	0	2	100
				AFR	12,380	2	0	2	137	12,902	2	0	2	143	13,154	2	0	2	146
				P6	137W	40	1050	T1S	17,545	2	0	3	128	18,285	2	0	3	133	18,642
T2M	16,253	3	0					4	119	16,939	3	0	4	124	17,269	3	0	4	126
T3M	16,442	2	0					4	120	17,135	3	0	4	125	17,469	3	0	4	128
T3LG	14,687	2	0					2	107	15,306	2	0	2	112	15,605	2	0	2	114
T4M	16,687	2	0					4	122	17,391	3	0	5	127	17,730	3	0	5	129
T4LG	15,177	2	0					2	111	15,817	2	0	2	115	16,125	2	0	2	118
TFTM	16,802	2	0					4	123	17,511	2	0	4	128	17,852	2	0	5	130
T5M	17,168	4	0					2	125	17,893	5	0	3	131	18,241	5	0	3	133
T5W	17,447	5	0					3	127	18,183	5	0	3	133	18,537	5	0	3	135
T5LG	17,218	4	0					2	126	17,944	4	0	2	131	18,294	4	0	2	134
BLC3	11,959	0	0					3	87	12,464	0	0	3	91	12,707	0	0	3	93
BLC4	12,352	0	0					4	90	12,873	0	0	4	94	13,124	0	0	4	96
RCCO	12,067	1	0					3	88	12,576	1	0	3	92	12,821	1	0	3	94
LCCO	12,067	1	0					3	88	12,576	1	0	3	92	12,821	1	0	3	94
AFR	17,545	2	0					3	128	18,285	2	0	3	133	18,642	2	0	3	136
P7	171W	40	1300					T1S	20,806	2	0	3	122	21,683	2	0	3	127	22,106
				T2M	19,273	3	0	4	113	20,086	3	0	4	118	20,478	3	0	4	120
				T3M	19,497	3	0	5	114	20,319	3	0	5	119	20,715	3	0	5	121
				T3LG	17,416	2	0	2	102	18,151	2	0	2	106	18,504	2	0	2	108
				T4M	19,787	3	0	5	116	20,622	3	0	5	121	21,024	3	0	5	123
				T4LG	17,997	2	0	2	105	18,756	2	0	2	110	19,121	2	0	2	112
				TFTM	19,924	3	0	5	117	20,765	3	0	5	122	21,170	3	0	5	124
				T5M	20,359	5	0	3	119	21,217	5	0	3	124	21,631	5	0	3	127
				T5W	20,689	5	0	3	121	21,561	5	0	3	126	21,982	5	0	3	129
				T5LG	20,418	4	0	2	120	21,279	4	0	2	125	21,694	4	0	2	127
				BLC3	14,182	0	0	3	83	14,780	0	0	3	87	15,068	0	0	3	88
				BLC4	14,647	0	0	4	86	15,265	0	0	4	89	15,562	0	0	4	91
				RCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				LCCO	14,309	1	0	3	84	14,913	1	0	3	87	15,204	1	0	3	89
				AFR	20,806	2	0	3	122	21,683	2	0	3	127	22,106	2	0	3	129



# Performance Data

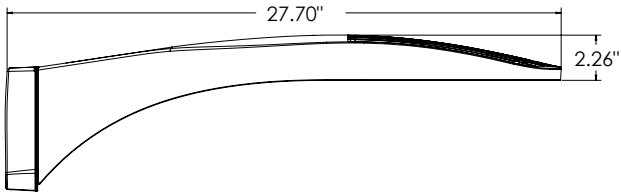
## Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79. Contact factory for performance data on any configurations not shown here.

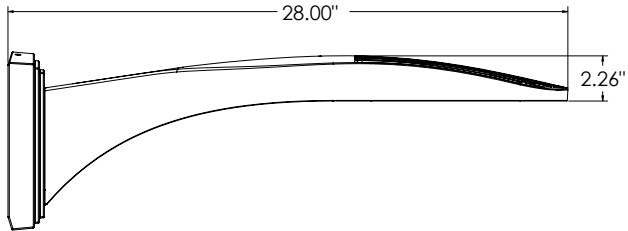
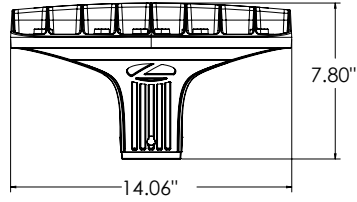
Rotated Optics																							
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K					40K					50K								
					(3000K, 70 CRI)					(4000K, 70 CRI)					(5000K, 70 CRI)								
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW				
P10	51W	30	530	T1S	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154				
				T2M	6,854	3	0	3	135	7,144	3	0	3	140	7,283	3	0	3	143				
				T3M	6,933	3	0	3	136	7,225	3	0	3	142	7,366	3	0	3	145				
				T3LG	6,194	2	0	2	122	6,455	2	0	2	127	6,581	2	0	2	129				
				T4M	7,036	3	0	3	138	7,333	3	0	3	144	7,476	3	0	3	147				
				T4LG	6,399	2	0	2	126	6,669	2	0	2	131	6,799	2	0	2	134				
				TFTM	7,086	3	0	3	139	7,385	3	0	3	145	7,529	3	0	3	148				
				T5M	7,239	3	0	2	142	7,545	3	0	2	148	7,692	3	0	2	151				
				T5W	7,357	3	0	2	145	7,667	3	0	2	151	7,816	4	0	2	154				
				T5LG	7,260	3	0	1	143	7,567	3	0	1	149	7,714	3	0	1	152				
				BLC3	5,043	3	0	3	99	5,256	3	0	3	103	5,358	3	0	3	105				
				BLC4	5,208	3	0	3	102	5,428	3	0	3	107	5,534	3	0	3	109				
				RCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106				
				LCCO	5,089	0	0	2	100	5,303	0	0	2	104	5,407	0	0	2	106				
				AFR	7,399	3	0	3	145	7,711	3	0	3	151	7,862	3	0	3	154				
				P11	68W	30	700	T1S	9,358	3	0	3	138	9,753	3	0	3	143	9,943	3	0	3	146
								T2M	8,669	3	0	3	127	9,034	3	0	3	133	9,211	3	0	3	135
T3M	8,768	3	0					3	129	9,138	3	0	3	134	9,316	3	0	3	137				
T3LG	7,833	3	0					3	115	8,164	3	0	3	120	8,323	3	0	3	122				
T4M	8,899	3	0					3	131	9,274	3	0	3	136	9,455	3	0	3	139				
T4LG	8,093	3	0					3	119	8,435	3	0	3	124	8,599	3	0	3	126				
TFTM	8,962	3	0					3	132	9,340	3	0	3	137	9,522	3	0	3	140				
T5M	9,156	4	0					2	135	9,542	4	0	2	140	9,728	4	0	2	143				
T5W	9,304	4	0					2	137	9,696	4	0	2	143	9,885	4	0	2	145				
T5LG	9,182	3	0					1	135	9,569	3	0	1	141	9,756	3	0	1	143				
BLC3	6,378	3	0					3	94	6,647	3	0	3	98	6,777	3	0	3	100				
BLC4	6,587	3	0					3	97	6,865	3	0	3	101	6,999	3	0	3	103				
RCCO	6,436	0	0					2	95	6,707	0	0	2	99	6,838	0	0	2	101				
LCCO	6,436	0	0					2	95	6,707	0	0	2	99	6,838	0	0	2	101				
AFR	9,358	3	0					3	138	9,753	3	0	3	143	9,943	3	0	3	146				
P12	103W	30	1050					T1S	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136
								T2M	12,271	4	0	4	119	12,789	4	0	4	124	13,038	4	0	4	126
				T3M	12,412	4	0	4	120	12,935	4	0	4	125	13,187	4	0	4	128				
				T3LG	11,089	3	0	3	107	11,556	3	0	3	112	11,782	3	0	3	114				
				T4M	12,597	4	0	4	122	13,128	4	0	4	127	13,384	4	0	4	129				
				T4LG	11,457	3	0	3	111	11,940	3	0	3	116	12,173	3	0	3	118				
				TFTM	12,686	4	0	4	123	13,221	4	0	4	128	13,479	4	0	4	130				
				T5M	12,960	4	0	2	125	13,507	4	0	2	131	13,770	4	0	2	133				
				T5W	13,170	4	0	3	127	13,726	4	0	3	133	13,994	4	0	3	135				
				T5LG	12,998	3	0	2	126	13,546	3	0	2	131	13,810	3	0	2	134				
				BLC3	9,029	3	0	3	87	9,409	3	0	3	91	9,593	3	0	3	93				
				BLC4	9,324	4	0	4	90	9,718	4	0	4	94	9,907	4	0	4	96				
				RCCO	9,110	1	0	2	88	9,495	1	0	2	92	9,680	1	0	2	94				
				LCCO	9,110	1	0	2	88	9,494	1	0	2	92	9,680	1	0	2	94				
				AFR	13,247	3	0	3	128	13,806	3	0	3	134	14,075	3	0	3	136				
				P13	129W	30	1300	T1S	15,704	3	0	3	122	16,366	3	0	3	127	16,685	4	0	4	130
								T2M	14,547	4	0	4	113	15,161	4	0	4	118	15,457	4	0	4	120
T3M	14,714	4	0					4	114	15,335	4	0	4	119	15,634	4	0	4	121				
T3LG	13,145	3	0					3	102	13,700	3	0	3	106	13,967	3	0	3	108				
T4M	14,933	4	0					4	116	15,563	4	0	4	121	15,867	4	0	4	123				
T4LG	13,582	3	0					3	105	14,155	3	0	3	110	14,431	3	0	3	112				
TFTM	15,039	4	0					4	117	15,673	4	0	4	122	15,979	4	0	4	124				
T5M	15,364	4	0					2	119	16,013	4	0	2	124	16,325	4	0	2	127				
T5W	15,613	5	0					3	121	16,272	5	0	3	126	16,589	5	0	3	129				
T5LG	15,409	3	0					2	120	16,059	3	0	2	125	16,372	4	0	2	127				
BLC3	10,703	4	0					4	83	11,155	4	0	4	87	11,372	4	0	4	88				
BLC4	11,054	4	0					4	86	11,520	4	0	4	89	11,745	4	0	4	91				
RCCO	10,800	1	0					2	84	11,256	1	0	2	87	11,475	1	0	3	89				
LCCO	10,800	1	0					2	84	11,255	1	0	2	87	11,475	1	0	3	89				
AFR	15,704	3	0					3	122	16,366	3	0	3	127	16,685	4	0	4	130				



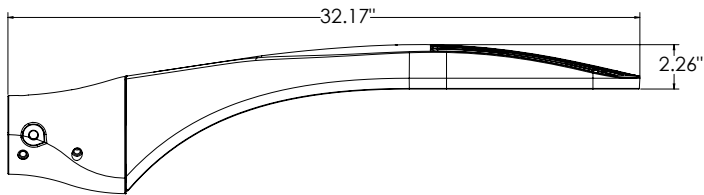
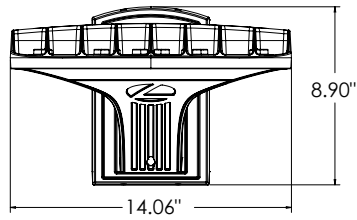
# Dimensions



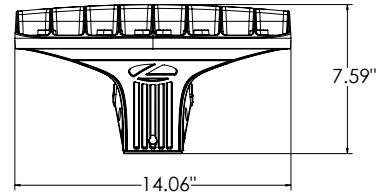
**DSX0 with RPA, RPA5, SPA5, SPA8N mount**  
**Weight: 25 lbs**



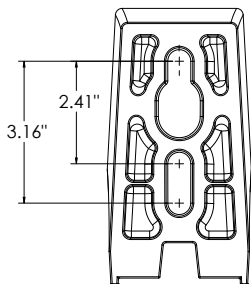
**DSX0 with WBA mount**  
**Weight: 27 lb**



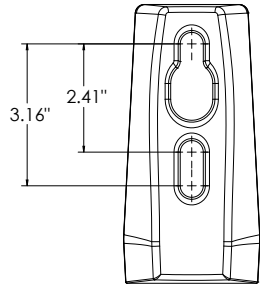
**DSX0 with MA mount**  
**Weight: 28 lbs**



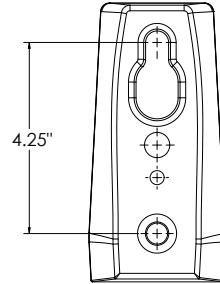
**SPA (STANDARD ARM)**



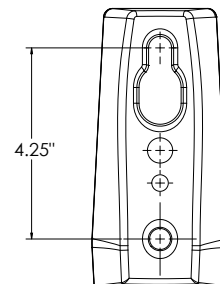
**RPA**



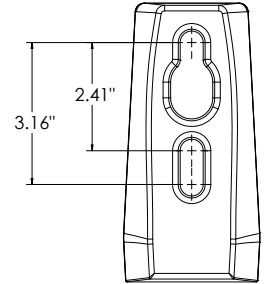
**SPA5**



**RPA5**



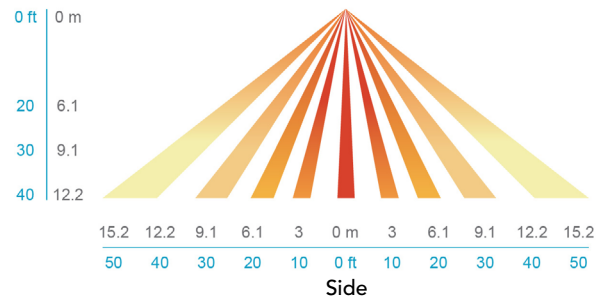
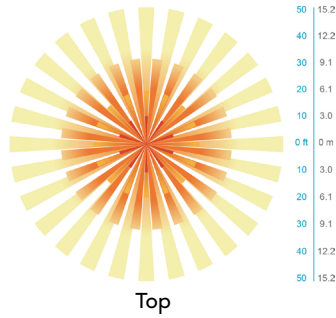
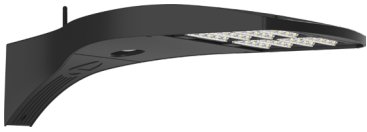
**SPA8N**





## nLight Sensor Coverage Pattern

### NLTAIR2 PIRHN



## FEATURES & SPECIFICATIONS

### INTENDED USE

The sleek design of the D-Series Size 0 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and pedestrian areas.

### CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED driver is mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G. Low EPA (0.44 ft<sup>2</sup>) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

### COASTAL CONSTRUCTION (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

### OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in 3000 K, 4000 K or 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 0 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L80/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### STANDARD CONTROLS

The DSX0 LED area luminaire has a number of control options. DSX Size 0, comes standard with 0-10V dimming driver. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. PIR integrated motion sensor with on-board photocell feature field-adjustable programming and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

### nLIGHT AIR CONTROLS

The DSX0 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

### INSTALLATION

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

### LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40°C minimum ambient.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

### BUY AMERICAN ACT

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT regulations. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

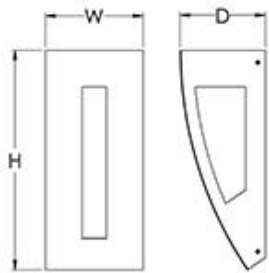
**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



## S9205 Series



## DIMENSIONS



W	H	D	MC	BASE MODEL NO.
8"	18"	7"	7"	<b>S9205-L16</b>

## SPECIFICATIONS

**Driver:** 0-10V dimming to 1%, 120/277

**Mounting:** Mounts to all Standard Electrical Junction Boxes (by others) With Hardware Provided. Silicone Seal Required (by others).

## FEATURES

- Opal Acrylic Panels
- UL Listed for Wet Location
- LED 0-10V Dimming Driver

## ORDER AS A COMPLETE UNIT:

Model No. + Lamp Code + CCT + Finish + Option Code

S9205-L16	+	27K	+	PT	+	Option
		30K		BA		
		35K				
		40K				

## FINISHES

**BA** Brushed Aluminum      **PT** Powder Coated Finishes\*

\*(Specify Color Code from the list of Powder Coating Finishes [except interior only metallics])

## OPTIONS

**EML** Remote 10W Emergency LED Battery Backup

## LIGHT OUTPUT

**LXX** = ~ 61 LPW Delivered Lumens (Example: L16= 16W x 61LPW = 976 Lumens)

\*\* Try our new **Shimmer Metallic Paints**, Formulated for Exterior Conditions.





# ARC2 LED

## Architectural Wall Luminaire



Catalog Number

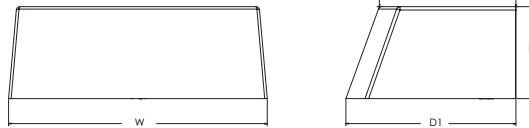
Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

### Specifications

- Depth (D1):** 9.25"
- Depth (D2):** 7.5"
- Height:** 5"
- Width:** 14"
- Weight:** 11 lbs  
(without options)



### Introduction

The Lithonia Lighting ARC LED wall-mounted luminaires provide both architectural styling and visually comfortable illumination while providing the high energy savings and low initial costs for quick financial payback.

ARC2 delivers up to 6,500 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. It offers integrated emergency battery backup options, including an 8W cold temperature option, making it suitable for pedestrian scale applications in any environment.

### ARC LED Family Overview

Luminaire	Standard EM, 0°C	Cold EM, -20°C	Approximate Lumens (4000K)				
			P1	P2	P3	P4	P5
ARC1 LED	4W	--	1,500	2,000	3,000	--	--
ARC2 LED	4W	8W	1,500	2,000	3,000	4,000	6,500

### Ordering Information

**EXAMPLE: ARC2 LED P2 40K MVOLT PE DDBXD**

Series	Package	Color Temperature	Voltage	Options	Finish
ARC2 LED	P1 1,500 Lumens	30K 3000K	MVOLT 347 <sup>1</sup>	E4WH Emergency battery backup, CEC compliant (4W, 0°C min) <sup>1</sup>	DDBXD Dark bronze
	P2 2,000 Lumens	40K 4000K		E8WC Emergency battery backup, CEC compliant (8W, -20°C min) <sup>1</sup>	DBLXD Black
	P3 3,000 Lumens	50K 5000K		PE Button type photocell for dusk-to-dawn operation	DNAXD Natural aluminum
	P4 4,000 Lumens			DMG 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) <sup>2</sup>	DWHXD White
	P5 6,500 Lumens			SPD6KV 6kV surge protection <sup>1</sup>	DSSXD Sandstone
			FAO Field adjustable light output device. Allows for easy adjustment to the desired light levels, from 20% to 100% <sup>2</sup>	DDBTXD Textured dark bronze	
				DBLTXD Textured black	
				DNATXD Textured natural aluminum	
				DWHGXD Textured white	
				DSSTXD Textured sandstone	

### Accessories

Ordered and shipped separately.

- WSBBW DDBXD U Surface - mounted back box (specify finish)

### NOTES

- 1 347V not available with E4WH, E8WC and SPD6KV.
- 2 FAO not available with DMG.



COMMERCIAL OUTDOOR

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • [www.lithonia.com](http://www.lithonia.com)  
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ARC2 LED  
Rev. 03/02/22



## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	30K (3000K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
		Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1	11W	1,502	142	0	0	1	1,587	150	0	0	1	1,598	151	0	0	1
P2	16W	2,250	140	0	0	1	2,377	147	0	0	1	2,393	148	0	0	1
P3	24W	3,206	135	0	0	1	3,387	143	0	0	1	3,410	144	0	0	1
P4	30W	3,903	128	1	0	1	4,124	136	1	0	1	4,152	136	1	0	1
P5	51W	6,260	122	1	0	1	6,615	129	1	0	1	6,659	130	1	0	1

### Electrical Load

Performance Package	System Watts	Current (A)				
		120V	208V	240V	277V	347V
P1	11W	0.090	0.055	0.049	0.046	0.045
P2	16W	0.141	0.081	0.072	0.064	0.059
P3	24W	0.202	0.117	0.103	0.091	0.079
P4	30W	0.280	0.162	0.144	0.128	0.095
P5	51W	0.471	0.272	0.239	0.212	0.158

### Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Lumens
E4WH	693
E8WC	1,413

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.04
10°C	50°F	1.03
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11). To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

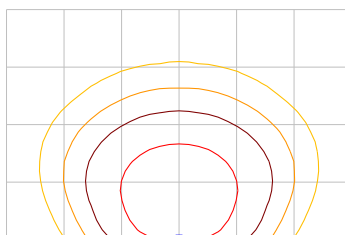
Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.93	>0.88

## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting ARC LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

#### LEGEND

- 0.25 fc
- 0.5 fc
- 1.0 fc
- 3.0 fc



ARC2 LED P3 40K

MH = 15ft  
Grid = 15ft x 15ft



## Emergency Egress Options

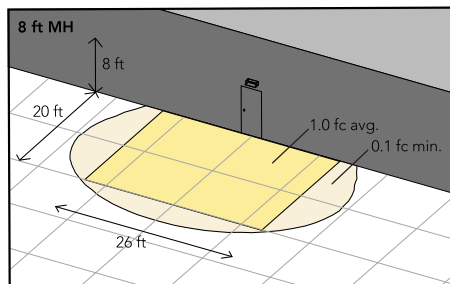
### Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90 minutes.

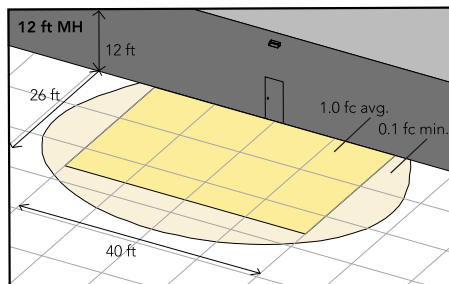
Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

The example below shows illuminance of 1 fc average and 0.1 fc minimum in emergency mode.

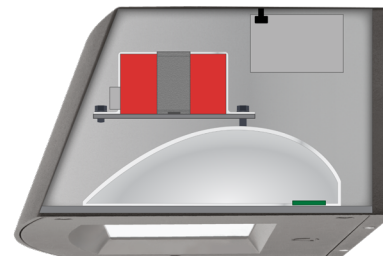
Grid = 10ft x 10ft



ARC2 LED 40K MVOLT E4WH



ARC2 LED 40K MVOLT E8WC



Self-contained solution for clean aesthetic

## Mounting, Options & Accessories

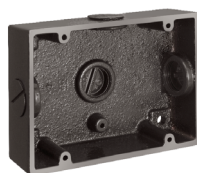


### E4WH and E8WC – Emergency Battery Backup

D = 6.5"

H = 5"

W = 11"



### BBW – Standard Back Box

D = 1.5"

H = 4"

W = 5.5"

For surface conduit applications.  
3/4" conduit entry holes.

## FEATURES & SPECIFICATIONS

### INTENDED USE

The clean architectural shape of the ARC LED was designed for applications such as hospitals, schools, malls, restaurants, and commercial buildings. The long-life LEDs and driver make this luminaire nearly maintenance-free.

### CONSTRUCTION

The die-cast aluminum housing and door act as heat sinks to optimize thermal transfer from the light engine and driver to promote long-life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP65 rating for the luminaire.

### FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

### OPTICS

Recessed lens to cut off high angle light and reduce glare. Combination of diffused lens and reflector design has low surface brightness creating a visually comfortable environment with great distribution. LEDs are fully hidden from view to eliminate pixelization and harsh glare. The ARC LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine consists of high-efficiency LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long-life (up to L88/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire is 0-10V dimmable.

### INSTALLATION

The universal wall plate, supplied with the luminaire, fits multiple size junction boxes and supports it during wiring for easy installation. Built-in wet location wiring compartment on the luminaire to accommodate wiring connections for applications with no junction box. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

### LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified. International DarkSky Association (IDA) Fixture Seal of approval (FSA) is available for all products on this page utilizing 3000K color temperature only. Rated for -40°C minimum ambient.

### WARRANTY

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.





**SPECIFICATIONS**

**EMERGENCY**

**HOUSING**

- Decorative low profile die-cast aluminum housing
- Available in white, black, brushed aluminum, or satin bronze finishes
- Stainless Steel hardware
- Full 90° Cutoff

**ELECTRICAL**

- Unit offered as AC only, or battery backup
- Dual 120/277V
- Operating Temperature: -20°C - 40°C (-4°F - 104°F)

**BATTERY**

- 3.6V, 5Ah Li-SOCI2 Battery
- LVD prevents battery from deep discharge
- Internal transfer switch automatically connects battery to lamp heads for 90-minute emergency illumination
- Two-rate charger initiates battery charge to recharge in battery in 24 hours

**ILLUMINATION**

- Sealed diffused lens
- 50,000 Hours
- 5300K standard; 2900 - 3800K available

**MOUNTING**

- Mounts directly to structural mullion beams in glass fronted entrances
- Suitable for wall or ceiling mount

**CODE COMPLIANCE**

- cETLus Listed for Outdoor Locations
- Meets UL924, NFPA 101, Life Safety Code, NEC, OSHA, Local and State Codes
- IP66 Rated
- BAA Compliant

**WARRANTY**

- 5 Year

**ORDERING INFORMATION**

CATALOG#	Description
OMEL-10W-*#	10W, 371 Lumens, AC Only
OMEL-10W-*-EM-#	10W, 494 Lumens, Battery Backup
OMEL-20W-*#	20W, 742 Lumens, AC Only
OMEL-20W-*-EM-#	20W, 988 Lumens, Battery Backup

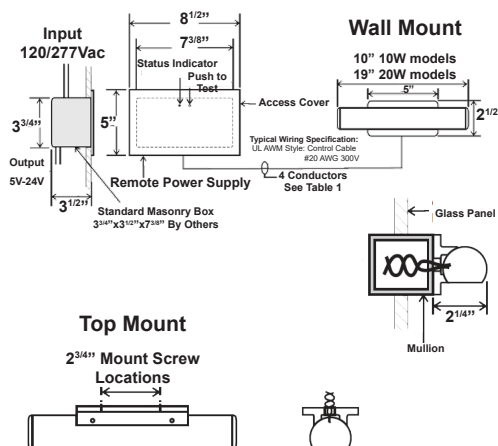
\*Specify Mounting; C-Ceiling Mount, W-Wall Mount  
 #Specify Color; WH-White; BA-Brushed Aluminum; BZ-Bronze, BK-Black

**OPTIONS (Factory Installed)**

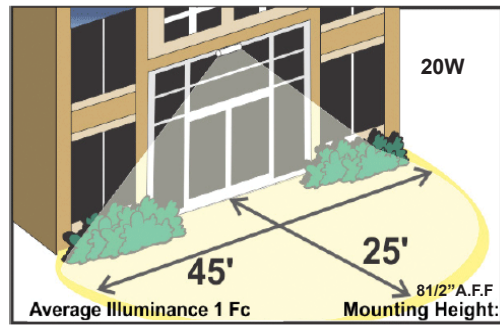
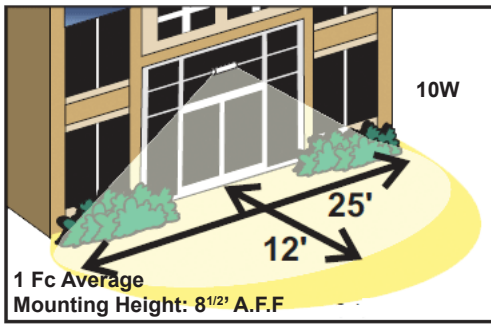
EM120	- 2 Hour Emergency Operation (replaces EM in part number)
SD	- Self Diagnostics (EM Models Only)
SW120	- Security Lighting with Control Switch-120V (Standard EM Models)
SW277	- Security Lighting with Control Switch-277V (Standard EM Models)
SW-SD	- Security Lighting with Control Switch for EM-SD models (120/277V)
2AC120	- Dual AC Output - 120V
2AC277	- Dual AC Output - 277V
CW1	- Custom Window Filter - 3800K
CW2	- Custom Window Filter - 3200K
CW3	- Custom Window Filter - 2900K
CPY1	- Canopy - 2" Height
CPY2	- Canopy - 5" Height
CC	- Custom Housing Color



**OMEL  
Mullion Mount LED  
AC/EM Unit**



## SPACING GUIDELINES



Model #	Mounting Height (ft)	3' Wide Egress Path	6' Wide Egress Path	10' Wide Egress Path
OMEL-10W	8'	25'	25'	25'

## SELF DIAGNOSTICS

STATUS	LED DISPLAY
NORMAL FULL CHARGE	● GREEN ON
NORMAL FAST CHARGE	● ORANGE ON
FAILED BATTERY	●● RED FLASH FAST
FAILED LAMP	●● GREEN FLASH
FAILED TRANSFER	●● ORANGE FLASH
FAILED CHARGER	●● RED FLASH SLOW