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SP2016-012- ROCKWALL TECHNOLOGY PARK PH IV
SITE PLAN - LOCATION MAP = 

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DATA

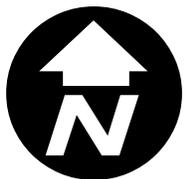
DISCOVERY

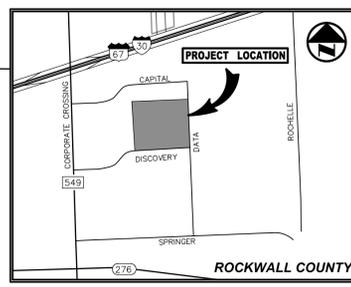
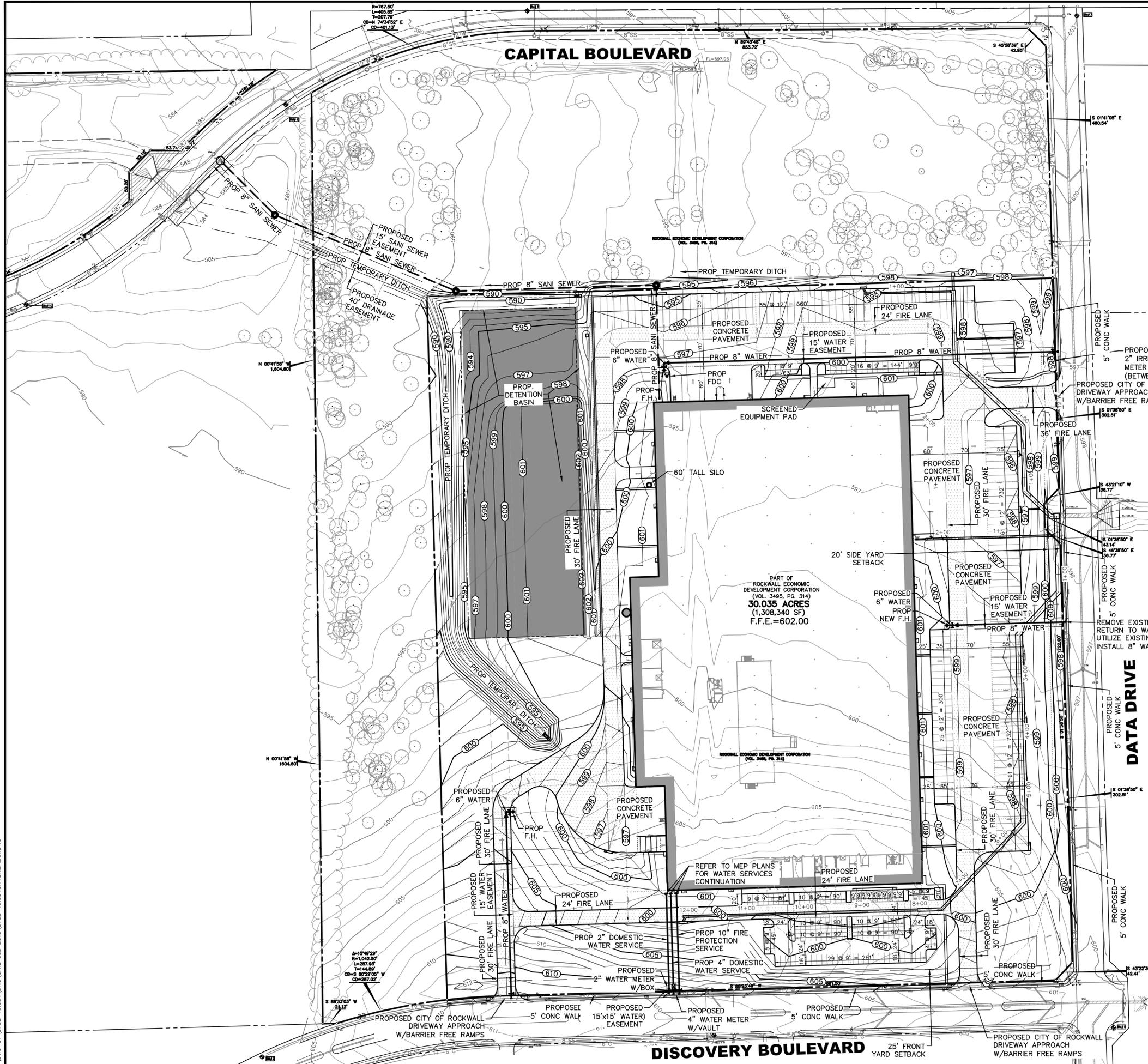


City of Rockwall

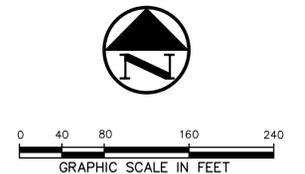
Planning & Zoning Department
385 S. Goliad Street
Rockwall, Texas 75032
(P): (972) 771-7745
(W): www.rockwall.com

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VICINITY MAP
(NOT TO SCALE)



LEGEND

BL	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CL	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
FL	FLOOD LIGHT
FR	TRAFFIC SIGNAL
SIG	1/2-INCH IRON ROD
IRS	W/"PACHECO KOCH" CAP SET
(C.M.)	CONTROLLING MONUMENT
---	PROPERTY LINE
-X-	FENCE
OH	OVERHEAD UTILITY LINE
E	UNDERGROUND ELECTRIC LINE
T	UNDERGROUND TELEPHONE LINE
C	UNDERGROUND CABLE LINE
6"W	UNDERGROUND WATER LINE
6"SS	UNDERGROUND CABLE LINE
613	EXIST. CONTOUR
[Pattern]	PROPOSED FIRE LANE

SITE PLAN NOTES:

- A SEPARATE SIGN PERMIT WILL BE REQUIRED FOR ALL SIGNS.
- THE INTENT OF THIS PLAN IS TO SHOW THE CONCEPTUAL DRAINAGE DESIGN FOR THE PROPOSED PROJECT AS PART OF THE SITE PLAN APPROVAL PROCESS ONLY AND SHALL NOT BE CONSTRUCTED AS A FINAL DESIGN.
- THE LIGHT LEVELS ALONG ALL PROPERTY LINES AND STREET FRONTAGES MUST BE 0.20FC OR LESS.
- SUBJECT PROPERTY IS SHOWN ON THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAP FOR ROCKWALL COUNTY, TEXAS AND INCORPORATED AREAS, MAP NO. 48397C0045L, COMMUNITY-PANEL NO. 480543 0045 L, EFFECTIVE DATE: SEPTEMBER 26, 2008. ALL OF THE SUBJECT PROPERTY IS SHOWN TO BE LOCATED IN ZONE "X" ON SAID MAP. THE LOCATION OF THE SAID FLOODZONES IS BASED ON SAID MAP IS APPROXIMATE AND IS NOT LOCATED ON THE GROUND. RELEVANT ZONES ARE DEFINED ON SAID PAM AS FOLLOWS:

ZONE "X" - OTHER AREAS: AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN.
 - PROPOSED USE:**
INDUSTRIAL FACILITY
 - GROSS BUILDING AREA:**
CAR WASH: 389,500 SF
NUMBER OF STORIES: 1
 - BUILDING HEIGHT:**
MAX BUILDING HEIGHT = 40'-4"
 - PARKING REQUIRED:**
PARKING RATIO = 1 SPACE PER 1,000 SF OF BUILDING
TOTAL REQUIRED = 390 SPACES
 - PARKING PROVIDED:**
PROPOSED REGULAR PARKING = 126 SPACES
PROPOSED H.C. PARKING = 6 SPACES
TOTAL PROVIDED = 126 + 6 = 132 SPACES

MAX EMPLOYEES ON SITE
@ SHIFT CHANGE = 110 (25 OFFICE + 85 WAREHOUSE)
 - SITE COVERAGE:**

TOTAL SITE	1,308,325 SF (30.035 AC)
BUILDING	389,500 SF (8.94 AC)
PAVEMENT	360,422 SF (8.27 AC)
LANDSCAPE	558,403 SF (12.82 AC)

BUILDING COVERAGE	29.8% < 60.0% MAX.
PAVEMENT COVERAGE	27.5%
LANDSCAPE COVERAGE	42.7%
PERCENT IMPERVIOUS	57.3% < 85.0%-90.0% MAX.
 - ZONING:**
LI (LIGHT INDUSTRIAL)

**PRELIMINARY
NOT FOR CONSTRUCTION**
THIS DOCUMENT IS ISSUED FOR THE PURPOSE OF SCHEMATIC REVIEW ONLY AND IS NOT INTENDED FOR PERMITTING, BIDDING, OR CONSTRUCTION PURPOSES.
PLANS PREPARED UNDER THE DIRECT SUPERVISION OF CHET T. LEUGERS, P.E. TEXAS REGISTRATION NO. 122042
DATE: MM/DD/YYYY

OWNER:
ROCKWALL ECONOMIC DEVELOPMENT CORPORATION
1610 OBSERVATION TRAIL
ROCKWALL, TX 75032
972.772.0025

ENGINEER:
PACHECO KOCH
7557 RAMBLER ROAD, SUITE 1400
DALLAS, TEXAS 75231
ATTN: CHET LEUGERS, P.E.
PHONE: (972) 235-3031

NO.	DATE	REVISION

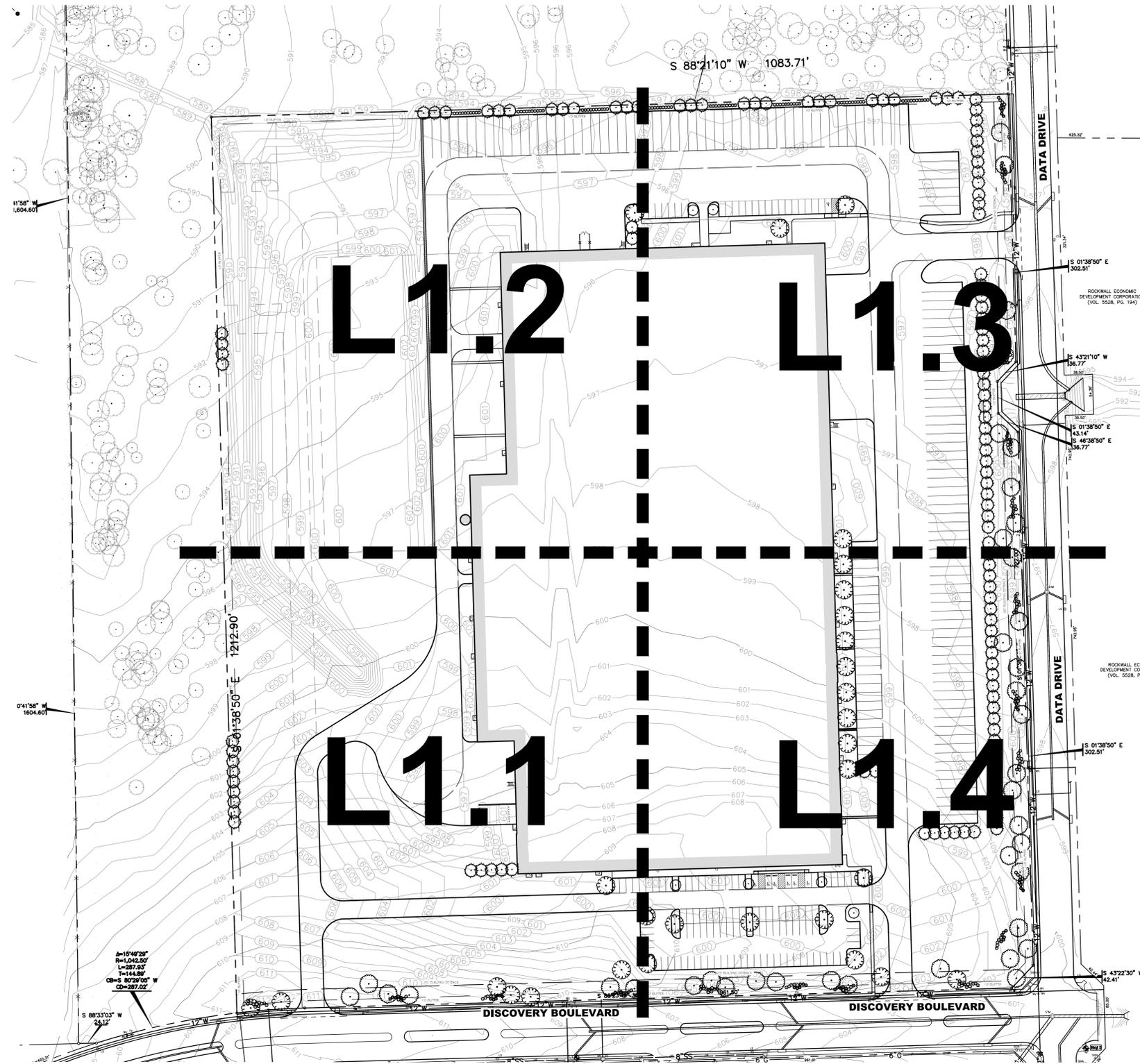
Pacheco Koch 6100 WESTERN PLACE, SUITE 1001
FORT WORTH, TX 76107 817.412.7155
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-10193824

CITY SITE PLAN
ROCKWALL MANUFACTURING FACILITY
NORTHWEST CORNER OF DISCOVERY
BOULEVARD & DATA DRIVE
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CTL	RHB	MAY 2016	1"=80'			SP-1

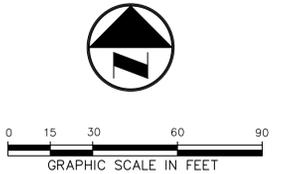
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 CLEUGERS

Rockwall Manufacturing Facility



SITE DATA TABLE	
ZONING	LI - LIGHT INDUSTRIAL
PROPOSED USE	INDUSTRIAL FACILITY
PARKING PROVIDED	126 REGULAR STALLS 7 H.C. STALLS
GROSS BUILDING AREA	389,500 SF
BUILDING HEIGHT	40'-4" 1 STORY
IMPERVIOUS AREA	749,922 SF
PERVIOUS AREA	558,403 SF
LOT AREA	30.035 ACRES = 1,308,325 SF

IRRIGATION NOTE:
PERMANENT IRRIGATION WILL BE DESIGNED/PROVIDED THAT MEETS THE CITY OF ROCKWALL UNIFIED DEVELOPMENT CODE.

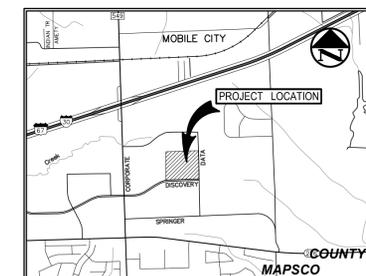


LANDSCAPE CALCULATIONS FOR THE CITY OF ROCKWALL, TX		
CITY REQUIREMENTS	REQUIRED	PROVIDED
REQUIRED LANDSCAPE		
[LIGHT INDUSTRIAL REQUIRED LANDSCAPE - 10% OF SITE]	30.035 AC x 10% = 3.003 AC (130,811 SF)	558,403 SF
TREE MITIGATION		
[578 CALIPER INCHES TO BE MITIGATED]	578 CALIPER INCHES	578 CALIPER INCHES (192 3" CAL TREES)
NORTH PARKING LOT LANDSCAPE (24 SPACES)	14,652 x 3% = 734 SF	1,835 SF
PARKING LOT TREES (1 PER 10 STALLS)	3 CANOPY TREES	3 CANOPY TREES & 2 ORNAMENTAL TREES
SOUTH PARKING LOT LANDSCAPE (109 SPACES)	38,108 SF x 3% = 1,143 SF	3,552 SF
PARKING LOT TREES (1 PER 10 STALLS)	109 STALLS / 10 = 11 CANOPY TREES	8 CANOPY TREES & 4 ORNAMENTAL TREES
STREET LANDSCAPE		
DATA DRIVE 1,202 LF		
BUFFER	10 BUFFER	10 BUFFER
STREET TREES (1 PER 50 LF)	1,202 / 50 LF = 24 TREES	24 TREES
DISCOVERY BLVD 1,213 LF		
BUFFER	10 BUFFER	10 BUFFER
STREET TREES (1 PER 50 LF)	1,213 / 50 LF = 24 TREES	24 TREES
LOADING DOCK/TRUCK PARKING SCREENING		
[LOADING AND DOCK/TRUCK SCREENING]	6 SCREENING	BERMING AND TREE SCREENING
DETENTION BASIN LANDSCAPE		
[DETENTION BASIN TREE (1 PER 750 SF)]	59,968 SF / 750 = 80 TREES	NONE - VARIANCE REQUESTED

- PLANTING GENERAL NOTES**
- ALL PLANT MATERIALS SHALL BE SET OUT FOR APPROVAL BY THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
 - FINE GRADING SHALL BE PERFORMED IN ALL AREAS TO BE LANDSCAPED. FINE GRADING SHALL INCLUDE THE REMOVAL OF DEBRIS, ROCKS, ETC. FROM THE SITE AND INSURE POSITIVE DRAINAGE IN ALL AREAS.
 - THE CONTRACTOR SHALL LOCATE ALL UTILITIES AND EASEMENTS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES DURING THE COURSE OF CONSTRUCTION.
 - WRITTEN DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
 - IT IS PREFERABLE THAT NO TREE BE STAKED. HOWEVER, CONDITIONS AND PLAN MATERIAL SIZE MAY NECESSITATE STAKING. THE OWNER'S REP SHALL DETERMINE IF SUPPORT IS NEEDED AND SHALL DIRECT THE CONTRACTOR ACCORDINGLY.
 - THE CONTRACTOR SHALL REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS ASSOCIATED WITH THE LANDSCAPE AND ACCESSORIES.
 - ALL PLANT MATERIALS SHALL MEET ANSI Z60.1 STANDARDS FOR CALIPER, HEIGHT AND ROOT BALL SIZE. ANY MATERIALS THAT DO NOT MEET OR EXCEED SUCH STANDARDS SHALL BE REJECTED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
 - BALLED AND BURLAPPED TREES SHALL HAVE THE TOP HALF OF THE WIRE BASKET REMOVED. THE BURLAP SHALL BE REMOVED TO THE GREATEST EXTENT POSSIBLE USING A KNIFE TO CUT AND REMOVE THE BOTTOM HALF UNDER THE WIRE BASKET THAT REMAINS.

LANDSCAPE TABLE						
LARGE TREES	CODE	QTY	BOTANICAL NAME	CONT	CAL	SIZE
	JE2	118	JUNIPERUS VIRGINIANA Eastern Red Cedar SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL	10'-12" H X 5'-6" W
	QV	39	QUERCUS VIRGINIANA Southern Live Oak SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL	10'-12" H X 5'-6" W
	UC	29	ULMUS CRASSIFOLIA Cedar Elm SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL	10'-12" H X 5'-6" W
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	CONT	CAL	SIZE
	ILD	6	ILEX DECIDUA Fossumhaw Holly MULTI-LEADER, FULL, MATCHING	CONTAINER	3" CAL	8' H X 4' W
SHRUBS	CODE	QTY	BOTANICAL NAME	SIZE		SPACING
	LS	151	LEUCOPHYLLUM FRUTESCENS 'SILVERADO' Texas Sage	3 GAL		48" o.c.
	RO	60	ROSMARINUS OFFICINALIS 'TUSCAN BLUE' Tuscan Blue Rosemary	3 GAL		48" o.c.
ORNAMENTAL GRASSES	CODE	QTY	BOTANICAL NAME	SIZE		SPACING
	MUL	60	MUHLENBERGIA LINDHEIMERI Lindheimer's Muhly FULL, MATCHING	3 GAL		48" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL NAME	CONT		SPACING
	NH	203,379 SF	NATIVE SEED MIX-HYDROSEED	HYDROSEED		
SOD/SEED	CODE	QTY	BOTANICAL NAME	CONT		SPACING
	CDS	1,24,759 SF	CYNODON DACTYLON Bermuda Grass (Stabilized) SOLID, ROLLED TIGHT, SAND FILLED JOINTS, 100% WEED, PEST AND DISEASE FREE	SOD		
	CD	228,913 SF	CYNODON DACTYLON-HYDROSEED Bermuda Grass	HYDROSEED		
HARDSCAPE	MATERIAL					
	STEEL EDGING					

LANDSCAPE VARIANCE REQUEST:
1. DETENTION BASIN TREE REQUIREMENT



VICINITY MAP
(NOT TO SCALE)

OWNER:
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DEVELOPMENT CORPORATION
1610 OBSERVATION TRAIL
ROCKWALL, TX 75032
972.772.0025

ENGINEER:
PACHECO KOCH
7557 RAMBLER ROAD, SUITE 1400
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ATTN: CHET LEUGERS, P.E.
PHONE: (972) 235-3031

INTERIM REVIEW
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REGISTERED LANDSCAPE ARCHITECT
CHRISTOPHER L. TATTON
TEXAS REGISTRATION NUMBER 2969

NO.	DATE	REVISION

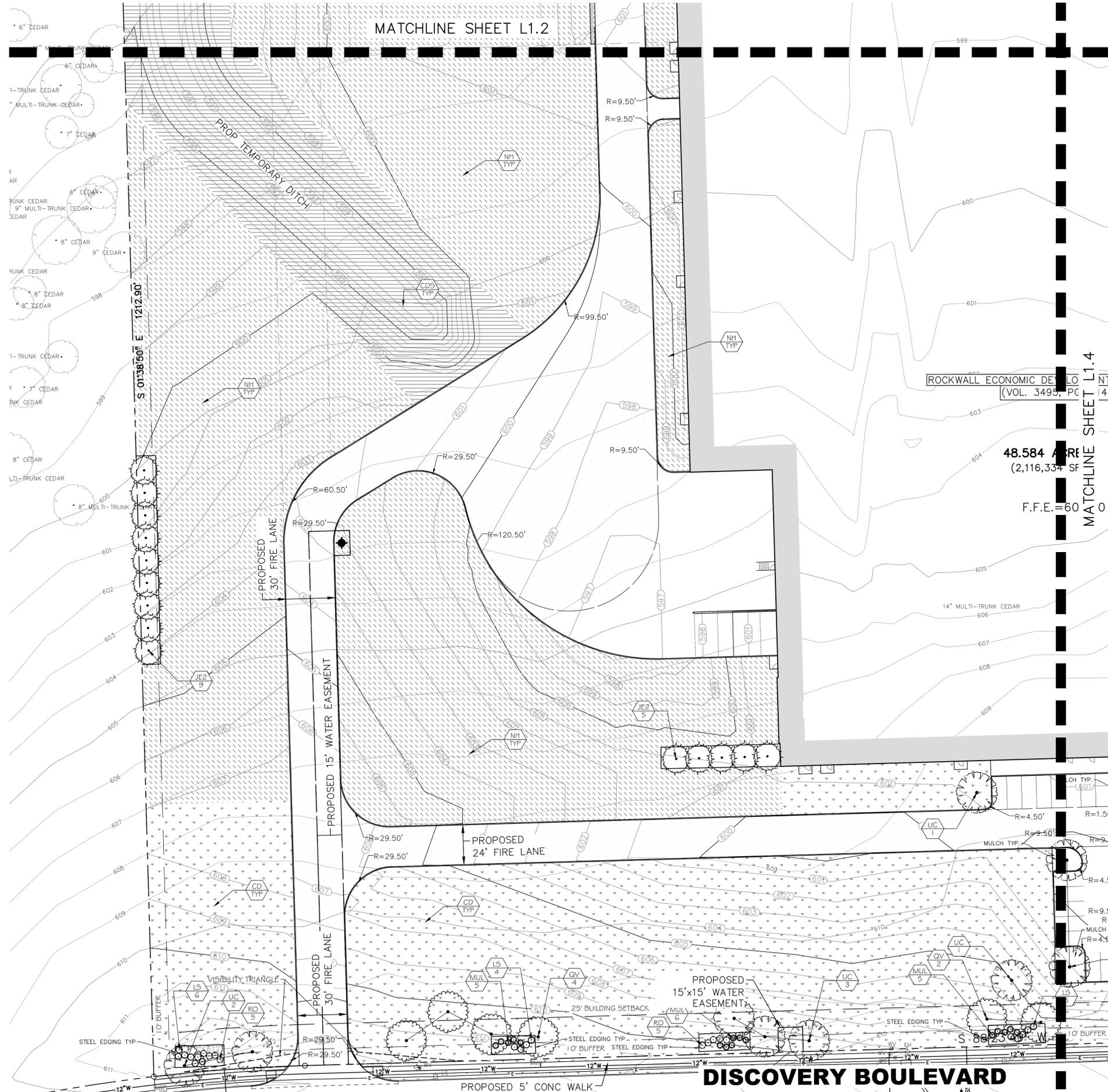
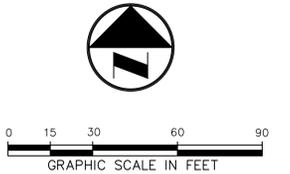
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OVERALL SITE PLAN
ROCKWALL MANUFACTURING FACILITY
NORTHWEST CORNER OF DISCOVERY
BOULEVARD & DATA DRIVE
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

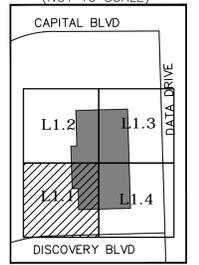
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ROCKWALL MANUFACTURING FACILITY



SHEET KEY MAP
(NOT TO SCALE)



LANDSCAPE TABLE

PLANT TYPE	CODE	QTY	BOTANICAL NAME	CONT	CAL	SIZE
LARGE TREES	JE2	118	JUNIPERUS VIRGINIANA Eastern Red Cedar SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL	10'-12" H X 5'-6" W
	QV	39	QUERCUS VIRGINIANA Southern Live Oak SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL	10'-12" H X 5'-6" W
	UC	29	ULMUS CRASSIFOLIA Cedar Elm SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL	10'-12" H X 5'-6" W
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	CONT	CAL	SIZE
	ILD	6	ILEX DECIDUA Possumhaw Holly MULTI-LEADER, FULL, MATCHING	CONTAINER	3" CAL	8" H X 4" W
SHRUBS	CODE	QTY	BOTANICAL NAME	SIZE		SPACING
	LS	151	LEUCOPHYLLUM FRUTESCENS 'SILVERADO' Texas Sage	3 GAL		48" o.c.
	RO	60	ROSMARINUS OFFICINALIS 'TUSCAN BLUE' Tuscan Blue Rosemary	3 GAL		48" o.c.
ORNAMENTAL GRASSES	CODE	QTY	BOTANICAL NAME	SIZE		SPACING
	MUL	60	MUHLENBERGIA LINDHEIMERI Lindheimer's Muhly FULL, MATCHING	3 GAL		48" o.c.
GROUND COVERS	CODE	QTY	BOTANICAL NAME	CONT		SPACING
	NH	203,379 SF	NATIVE SEED MIX-HYDROSEED	HYDROSEED		
SOD/SEED	CODE	QTY	BOTANICAL NAME	CONT		SPACING
	CD5	124,759 SF	CYNODON DACTYLON Bermuda Grass (Stabilized) SOLID, ROLLED TIGHT, SAND FILLED JOINTS, 100% WEED, PEST AND DISEASE FREE	SOD		
	CD	228,913 SF	CYNODON DACTYLON-HYDROSEED Bermuda Grass	HYDROSEED		
HARDSCAPE	MATERIAL					
	STEEL EDGING					

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 FORT WORTH, TX 76107 817.412.7155
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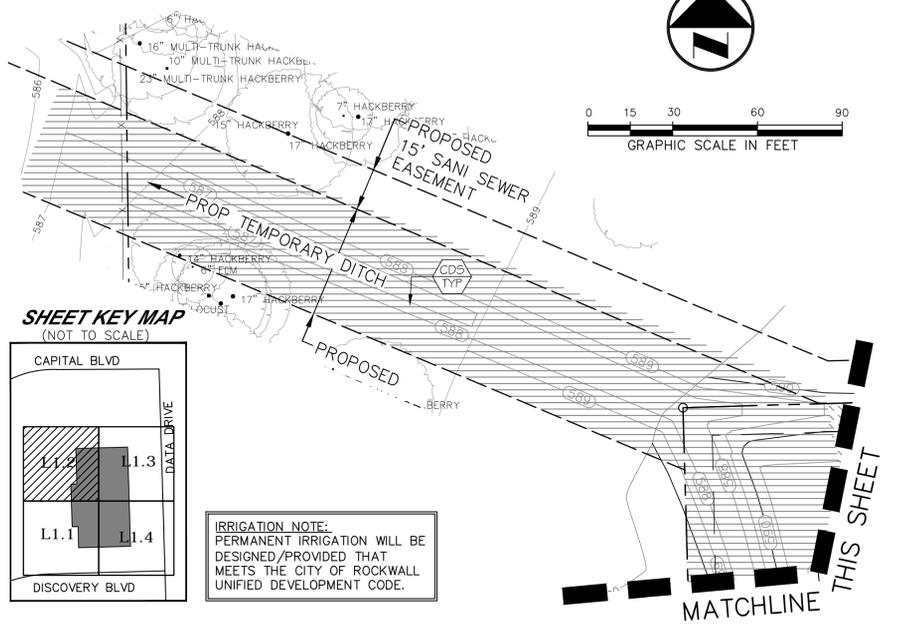
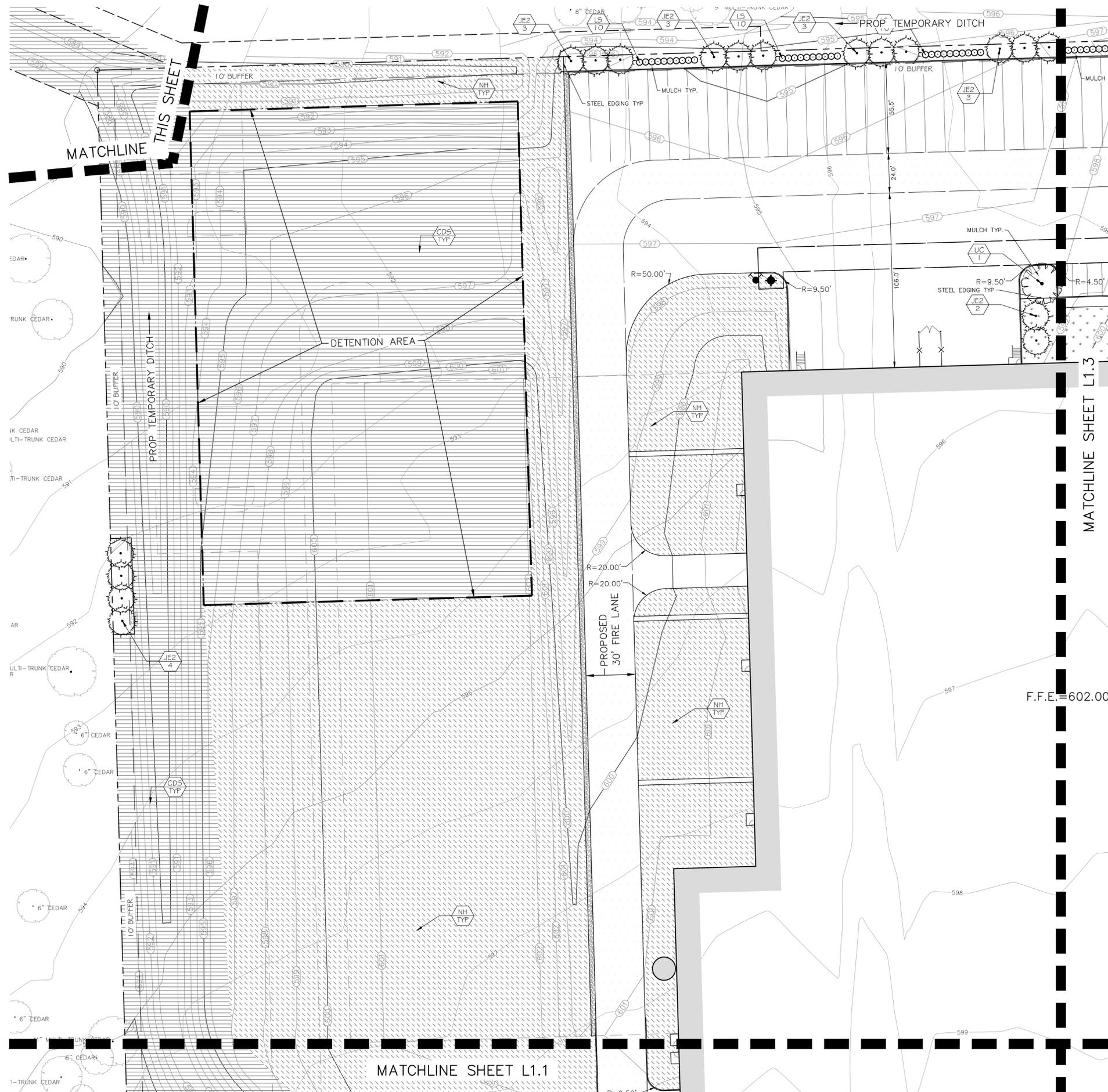
LANDSCAPE PLAN
ROCKWALL MANUFACTURING FACILITY
NORTHWEST CORNER OF DISCOVERY
BOULEVARD & DATA DRIVE
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CJT	CRR	MAY 2016	1"=30'			L1.1

Case Number: XXX

ROCKWALL MANUFACTURING FACILITY

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HARDSCAPE	MATERIAL					
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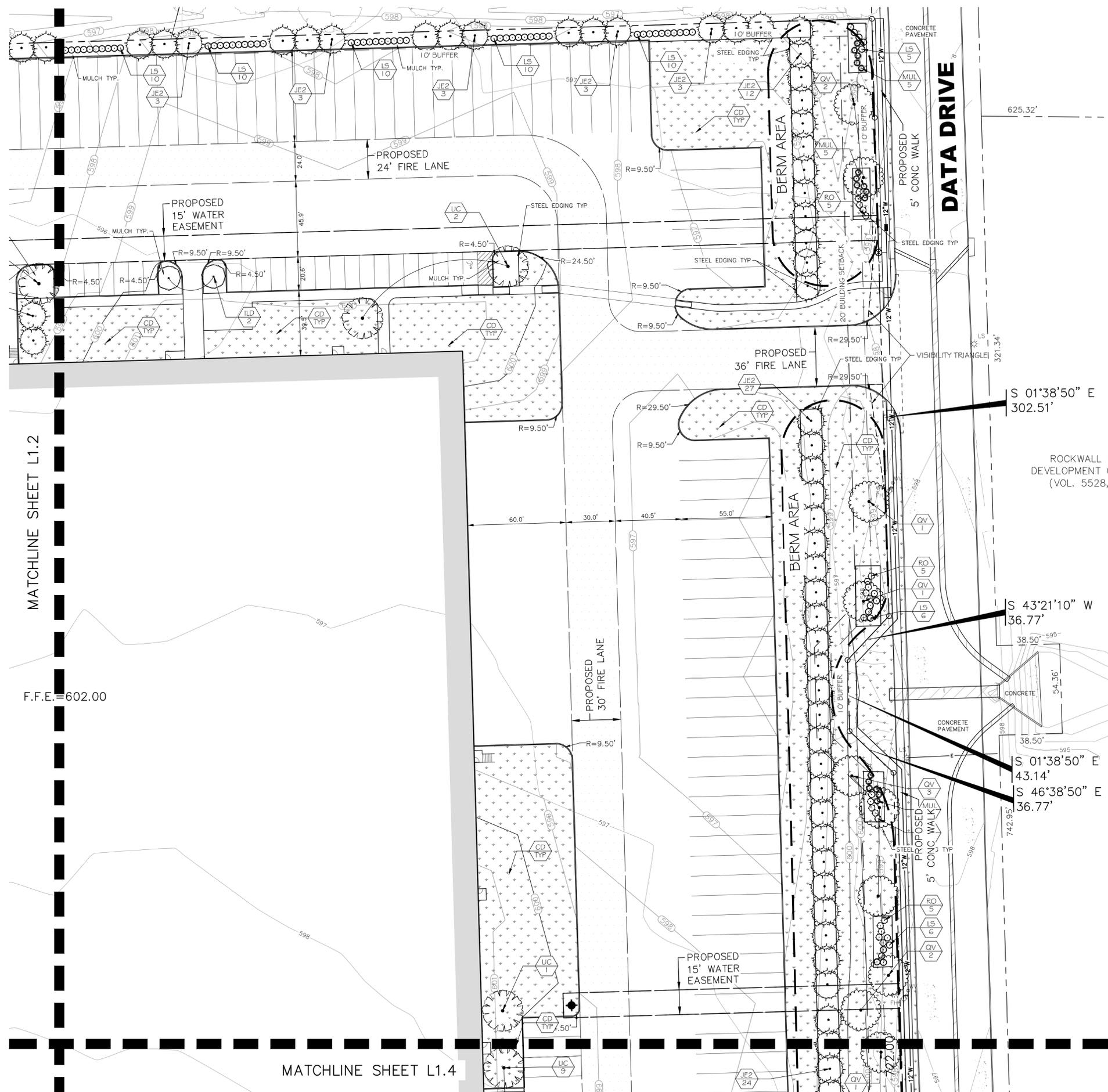
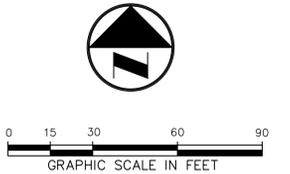
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 CHRISTOPHER L. TAYLOR
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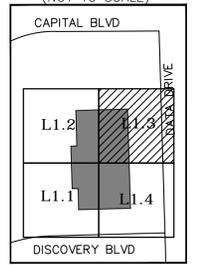
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NORTHWEST CORNER OF DISCOVERY
BOULEVARD & DATA DRIVE
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CJT	CRR	MAY 2016	1"=30'			L1.2



SHEET KEY MAP
(NOT TO SCALE)



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LANDSCAPE TABLE

GROUP	CODE	QTY	BOTANICAL NAME	CONT	CAL	SIZE
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HARDSCAPE	MATERIAL					
	STEEL EDGING					

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REGISTERED LANDSCAPE ARCHITECT
CHRISTOPHER L. TATON
TEXAS REGISTRATION NUMBER 2969

MATCHLINE SHEET L1.2

F.F.E. = 602.00

MATCHLINE SHEET L1.4

ROCKWALL E
DEVELOPMENT C
(VOL. 5528,

S 01°38'50" E
302.51'

S 43°21'10" W
36.77'

S 01°38'50" E
43.14'

S 46°38'50" E
36.77'

CSO/TFE
05/03/2016 - 3:11PM
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LANDSCAPE PLAN

ROCKWALL MANUFACTURING FACILITY

NORTHWEST CORNER OF DISCOVERY

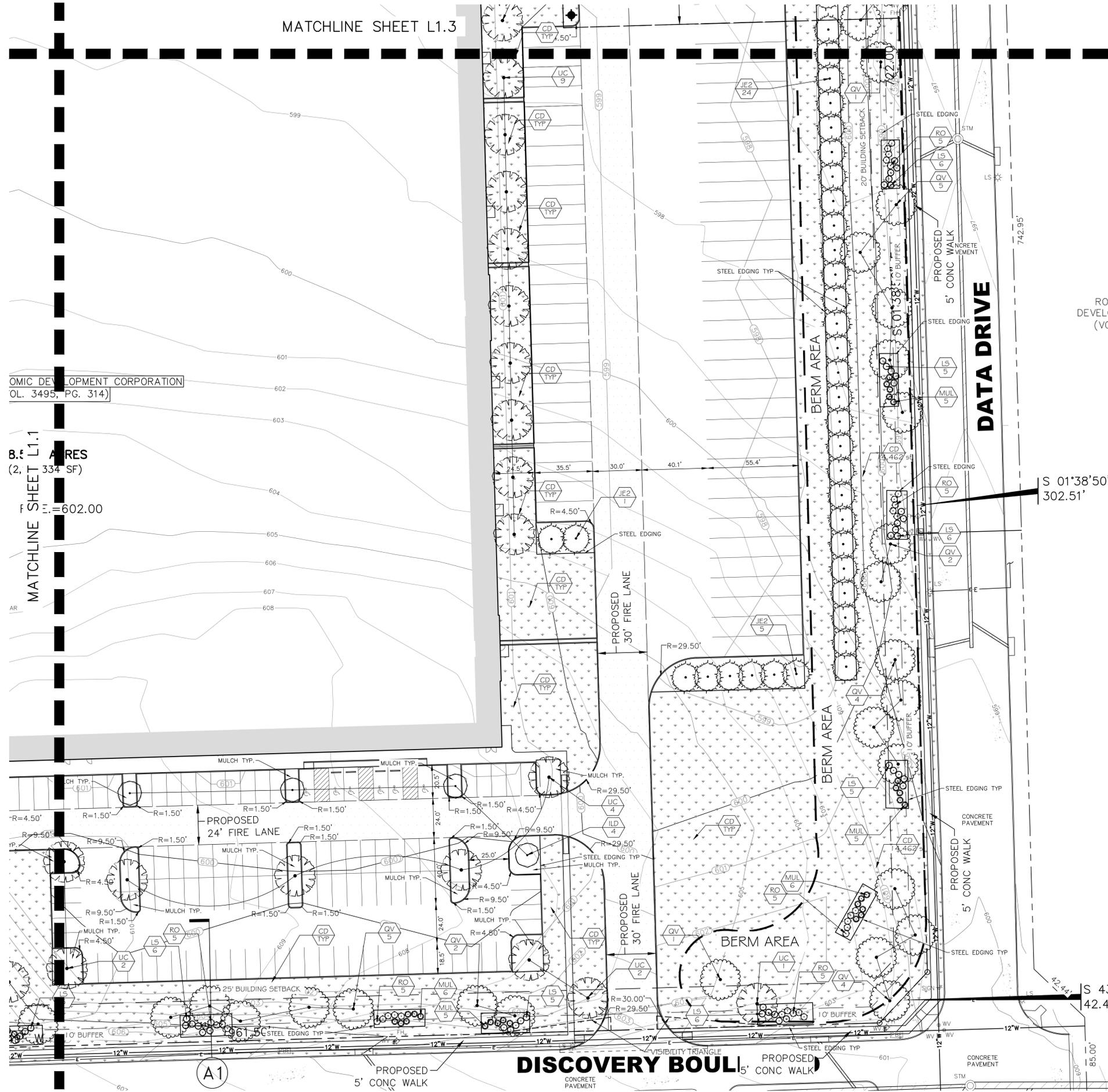
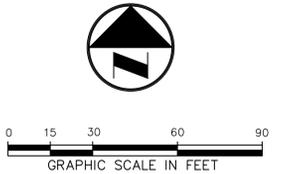
BOULEVARD & DATA DRIVE

CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CJT	CRR	MAY 2016	1"=30'			L1.3

Case Number: XXX

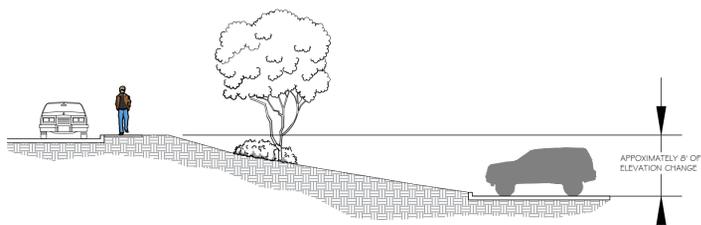
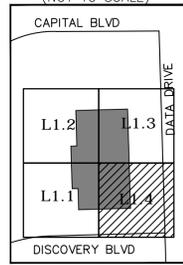
MATCHLINE SHEET L1.3



OMIC DEVELOPMENT CORPORATION
OL. 3495, PG. 314

8.5 ACRES
(2,334 SF)
ELEVATION = 602.00

SHEET KEY MAP
(NOT TO SCALE)



A1 GRADE CHANGE ELEVATION
NOT TO SCALE

LANDSCAPE TABLE

LARGE TREES	CODE	QTY	BOTANICAL NAME	CONT	CAL	SIZE
	JE2	118	JUNIPERUS VIRGINIANA Eastern Red Cedar SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3"CAL	10'-12"H X 5'-6"W
	QV	39	QUERCUS VIRGINIANA Southern Live Oak SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3"CAL	10'-12"H X 5'-6"W
	UC	29	ULMUS CRASSIFOLIA Cedar Elm SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3"CAL	10'-12"H X 5'-6"W
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	CONT	CAL	SIZE
	ILD	6	ILEX DECIDUA Possumhaw Holly MULTI-LEADER, FULL, MATCHING	CONTAINER	3"CAL	8' H X 4' W
SHRUBS	CODE	QTY	BOTANICAL NAME	SIZE	SPACING	
	LS	151	LEUCOPHYLLUM FRUTESCENS 'SILVERADO' Texas Sage	3 GAL	48" o.c.	
	RO	60	ROSMARINUS OFFICINALIS 'TUSCAN BLUE' Tuscan Blue Rosemary	3 GAL	48" o.c.	
ORNAMENTAL GRASSES	CODE	QTY	BOTANICAL NAME	SIZE	SPACING	
	MUL	60	MUHLENBERGIA LINDHEIMERI Lindheimer's Muhly FULL, MATCHING	3 GAL	48" o.c.	
GROUND COVERS	CODE	QTY	BOTANICAL NAME	CONT	SPACING	
	NH	203,379 SF	NATIVE SEED MIX-HYDROSEED	HYDROSEED		
SOD/SEED	CODE	QTY	BOTANICAL NAME	CONT	SPACING	
	CD5	124,759 SF	CYNODON DACTYLON Bermuda Grass (Stabilized) SOLID, ROLLED TIGHT, SAND FILLED JOINTS, 100% WEED, PEST AND DISEASE FREE	SOD		
	CD	228,913 SF	CYNODON DACTYLON-HYDROSEED Bermuda Grass	HYDROSEED		
HARDSCAPE	MATERIAL					
	STEEL EDGING					

INTERIM REVIEW
THESE DOCUMENTS ARE INTENDED FOR
INTERIM REVIEW ONLY AND NOT FOR
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CONSTRUCTION.
REGISTERED LANDSCAPE ARCHITECT
CHRISTOPHER L. TATTON
TEXAS REGISTRATION NUMBER 2969

NO.	DATE	REVISION

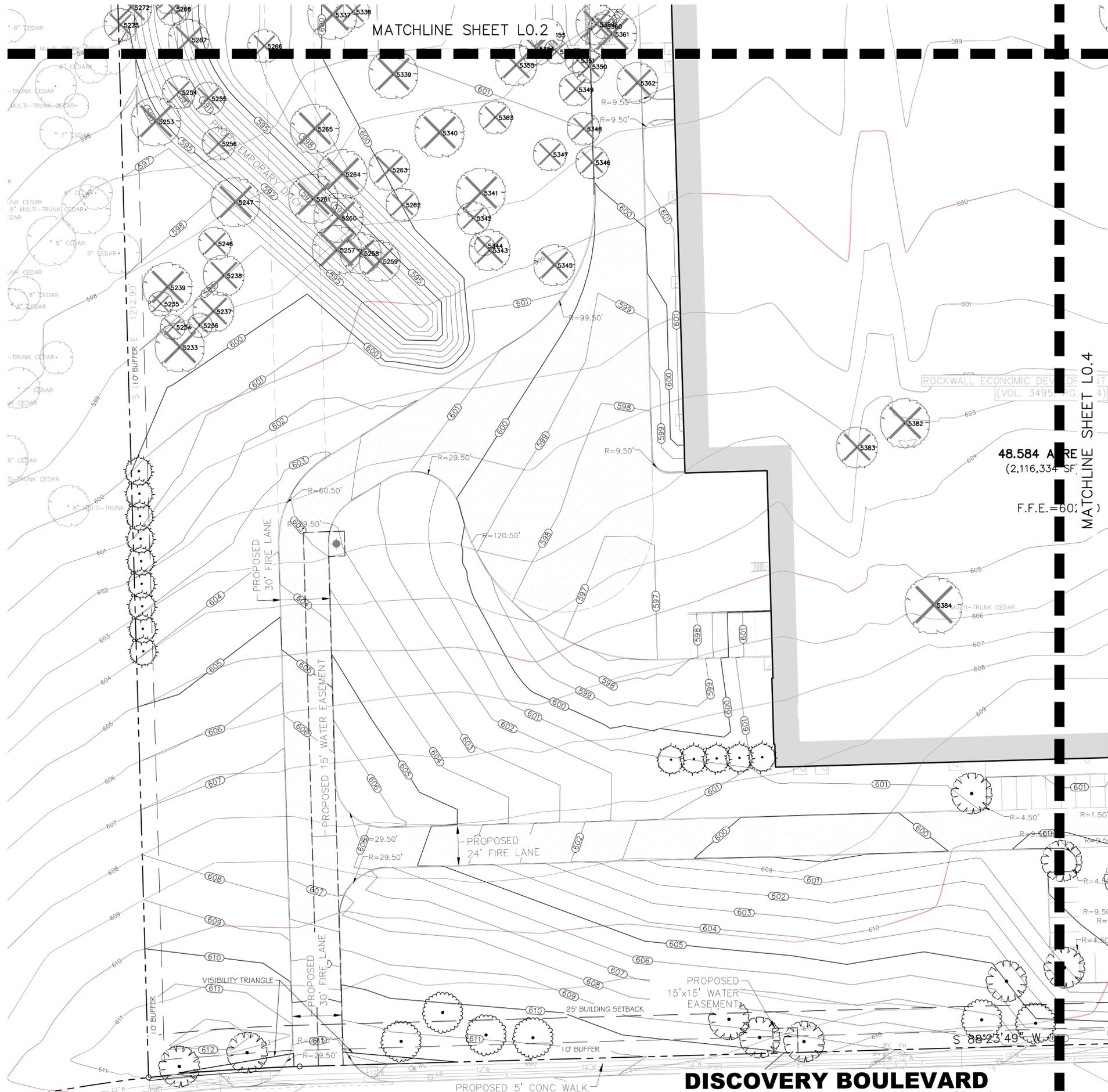
Pacheco Koch 6100 WESTERN PLACE, SUITE 1001
FORT WORTH, TX 76107 817.412.7155
TX REG. ENGINEERING FIRM F-14439
TX REG. SURVEYING FIRM LS-10193824

LANDSCAPE PLAN
ROCKWALL MANUFACTURING FACILITY
NORTHWEST CORNER OF DISCOVERY
BOULEVARD & DATA DRIVE
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CJT	CRR	MAY 2016	1"=30'			L1.4

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ROCKWALL MANUFACTURING FACILITY

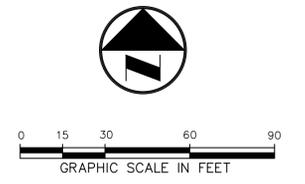
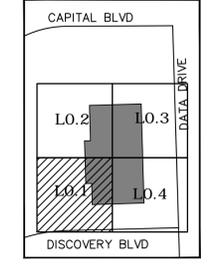


MATCHLINE SHEET L0.2

MATCHLINE SHEET L0.4

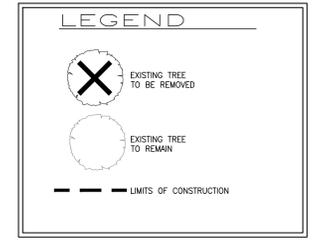
48.584 ACRE
(2,116,334 SF)
F.F.E. = 60

SHEET KEY MAP
(NOT TO SCALE)



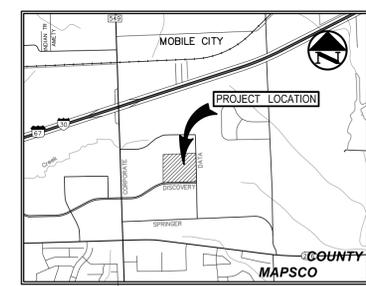
SITE DATA TABLE

ZONING	LI - LIGHT INDUSTRIAL
PROPOSED USE	INDUSTRIAL FACILITY
PARKING PROVIDED	128 REGULAR STALLS 7 H.C. STALLS
GROSS BUILDING AREA	389,500 SF
BUILDING HEIGHT	40'-4" 1 STORY
IMPERVIOUS AREA	749,922 SF
PERVIOUS AREA	558,403 SF
LOT AREA	30,035 ACRES - 1,308,326 SF



LANDSCAPE TABLE-PROPOSED

LARGE TREES	CODE	QTY	BOTANICAL NAME	CONT	CAL
	JE2	118	JUNIPERUS VIRGINIANA Eastern Red Cedar SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL
	QV	39	QUERCUS VIRGINIANA Southern Live Oak SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL
	UC	29	ULMUS CRASSIFOLIA Cedar Elm SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL
ORNAMENTAL TREES	CODE	QTY	BOTANICAL NAME	CONT	CAL
	ILD	6	ILEX DECIDUA Possumhaw Holly MULTI-LEADER, FULL, MATCHING	CONTAINER	3" CAL



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TEXAS REGISTRATION NUMBER 2969

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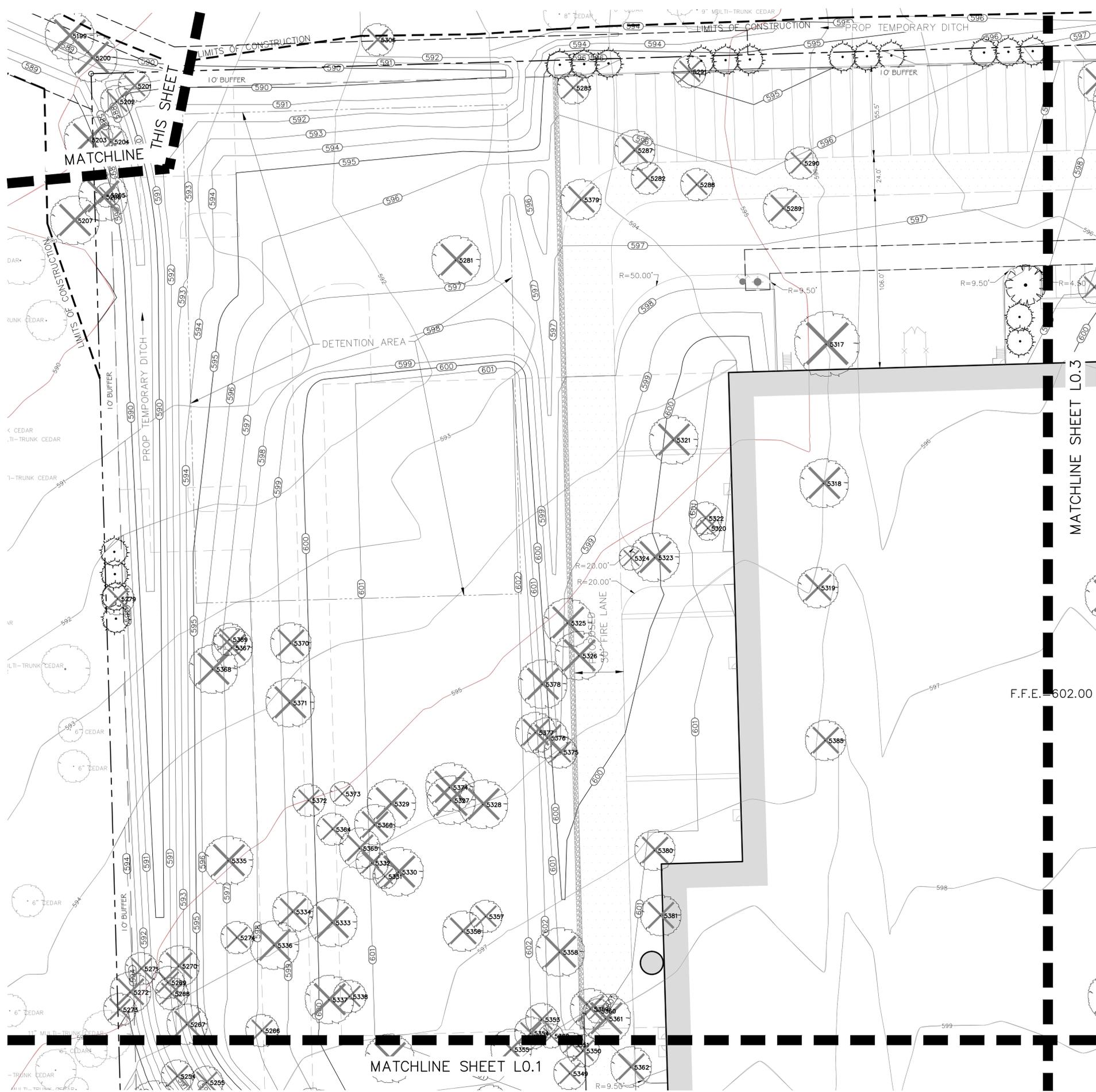
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TREESCAPE PLAN
ROCKWALL MANUFACTURING FACILITY
NORTHWEST CORNER OF DISCOVERY
BOULEVARD & DATA DRIVE
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

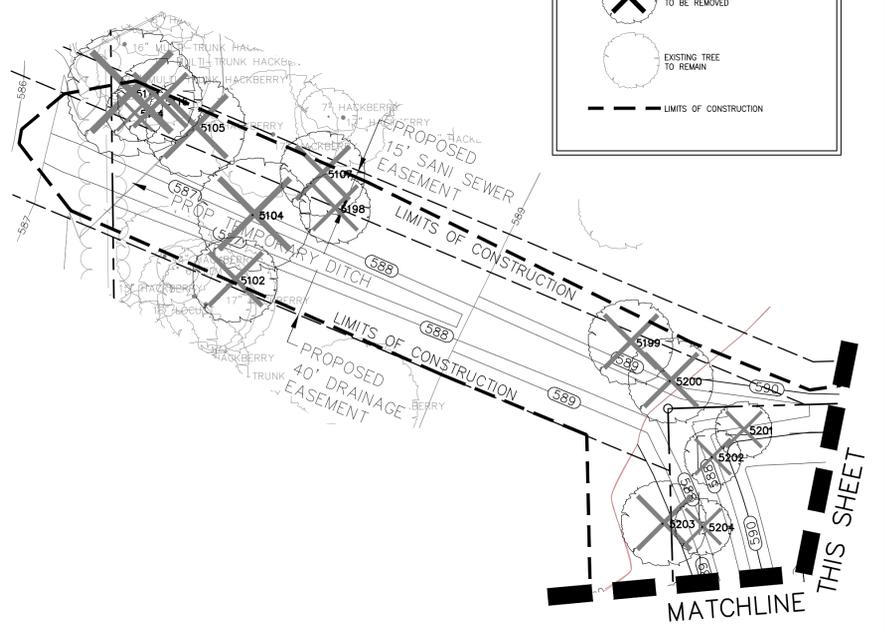
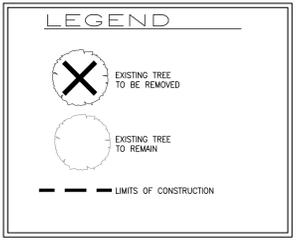
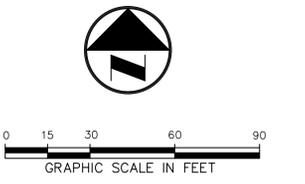
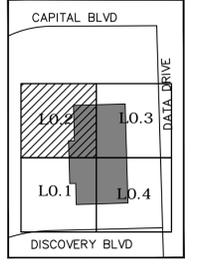
DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CJT	LAK	MAY 2016	1"=30'			L0.1

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ROCKWALL MANUFACTURING FACILITY



SHEET KEY MAP
(NOT TO SCALE)



LANDSCAPE TABLE-PROPOSED

LARGE TREES	CODE	QTY	BOTANICAL NAME	CONT	CAL
	JE2	118	JUNIPERUS VIRGINIANA Eastern Red Cedar SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL
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	UC	29	ULMUS CRASSIFOLIA Cedar Elm SINGLE, STRAIGHT LEADER, MATCHING	CONTAINER	3" CAL
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	ILD	6	ILEX DECIDUA Possumhaw Holly MULTI-LEADER, FULL, MATCHING	CONTAINER	3" CAL

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 CHRISTOPHER J. TAYLOR
 TEXAS REGISTRATION NUMBER 2969

NO.	DATE	REVISION

6100 WESTERN PLACE, SUITE 1001
 FORT WORTH, TX 76107 817.412.7155
 TX REG. ENGINEERING FIRM F-14439
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Pacheco Koch

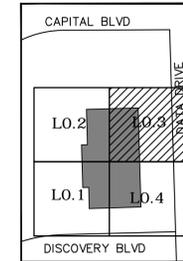
TREESCAPE PLAN
ROCKWALL MANUFACTURING FACILITY
NORTHWEST CORNER OF DISCOVERY
BOULEVARD & DATA DRIVE
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CJT	CRR	MAY 2016	1"=30'			L0.2

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ROCKWALL MANUFACTURING FACILITY

SHEET KEY MAP
(NOT TO SCALE)



LEGEND

- EXISTING TREE TO BE REMOVED
- EXISTING TREE TO REMAIN
- LIMITS OF CONSTRUCTION

LANDSCAPE TABLE-PROPOSED

LARGE TREES	CODE	QTY	BOTANICAL NAME	CONT	CAL
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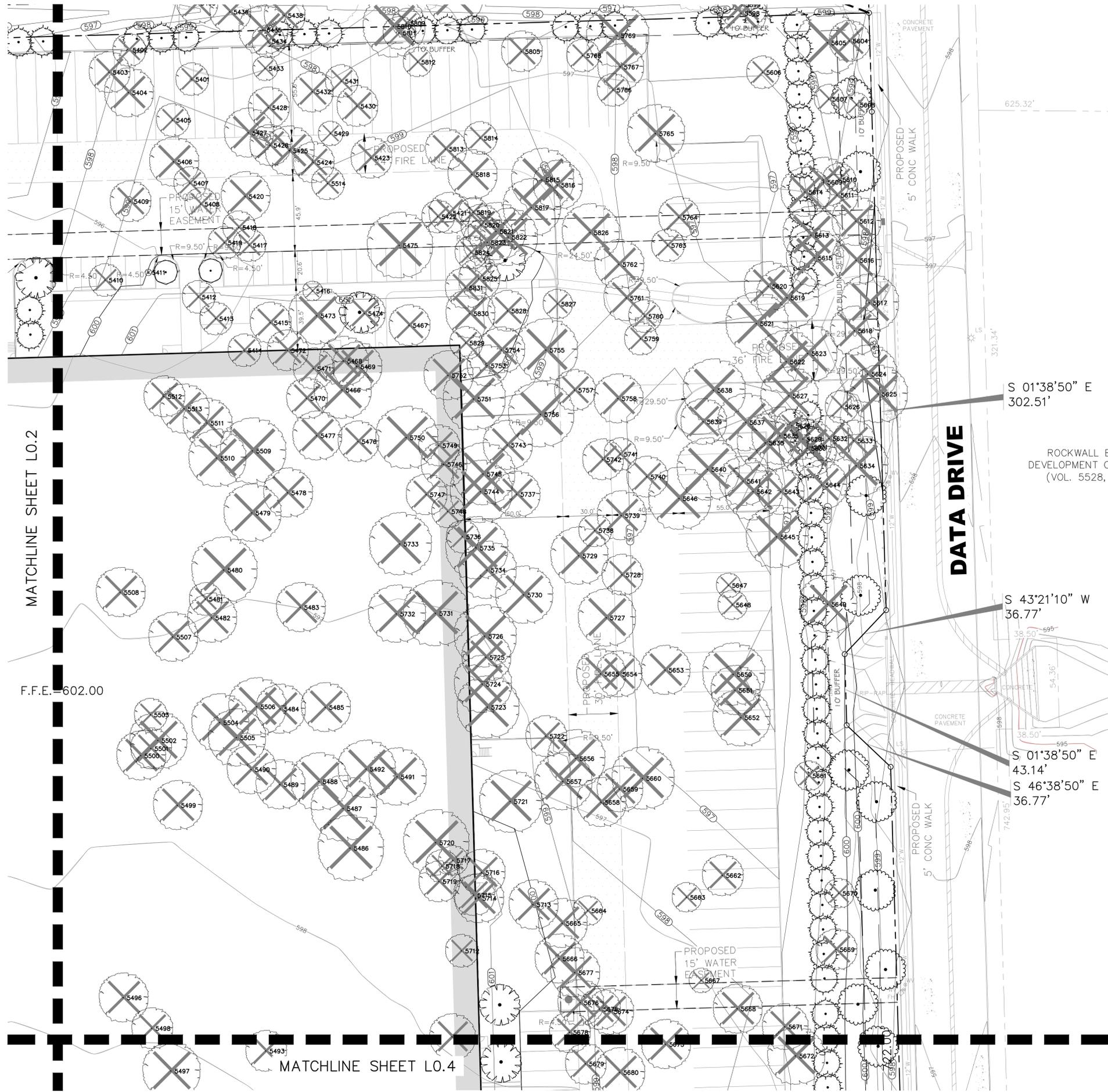
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BOULEVARD & DATA DRIVE
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DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CJT	CRR	MAY 2016	1"=30'			L0.3



MATCHLINE SHEET L0.2

F.F.E. -602.00

MATCHLINE SHEET L0.4

DATA DRIVE

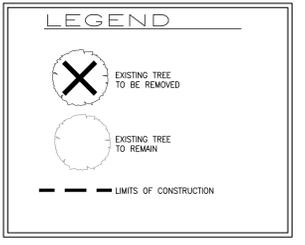
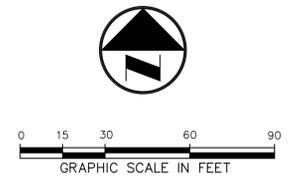
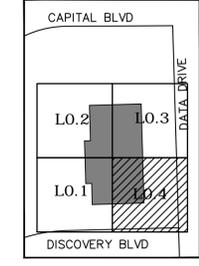
S 01°38'50" E
302.51'

ROCKWALL E
DEVELOPMENT C
(VOL. 5528,

S 43°21'10" W
36.77'

S 01°38'50" E
43.14'
S 46°38'50" E
36.77'

SHEET KEY MAP
(NOT TO SCALE)



LANDSCAPE TABLE-PROPOSED

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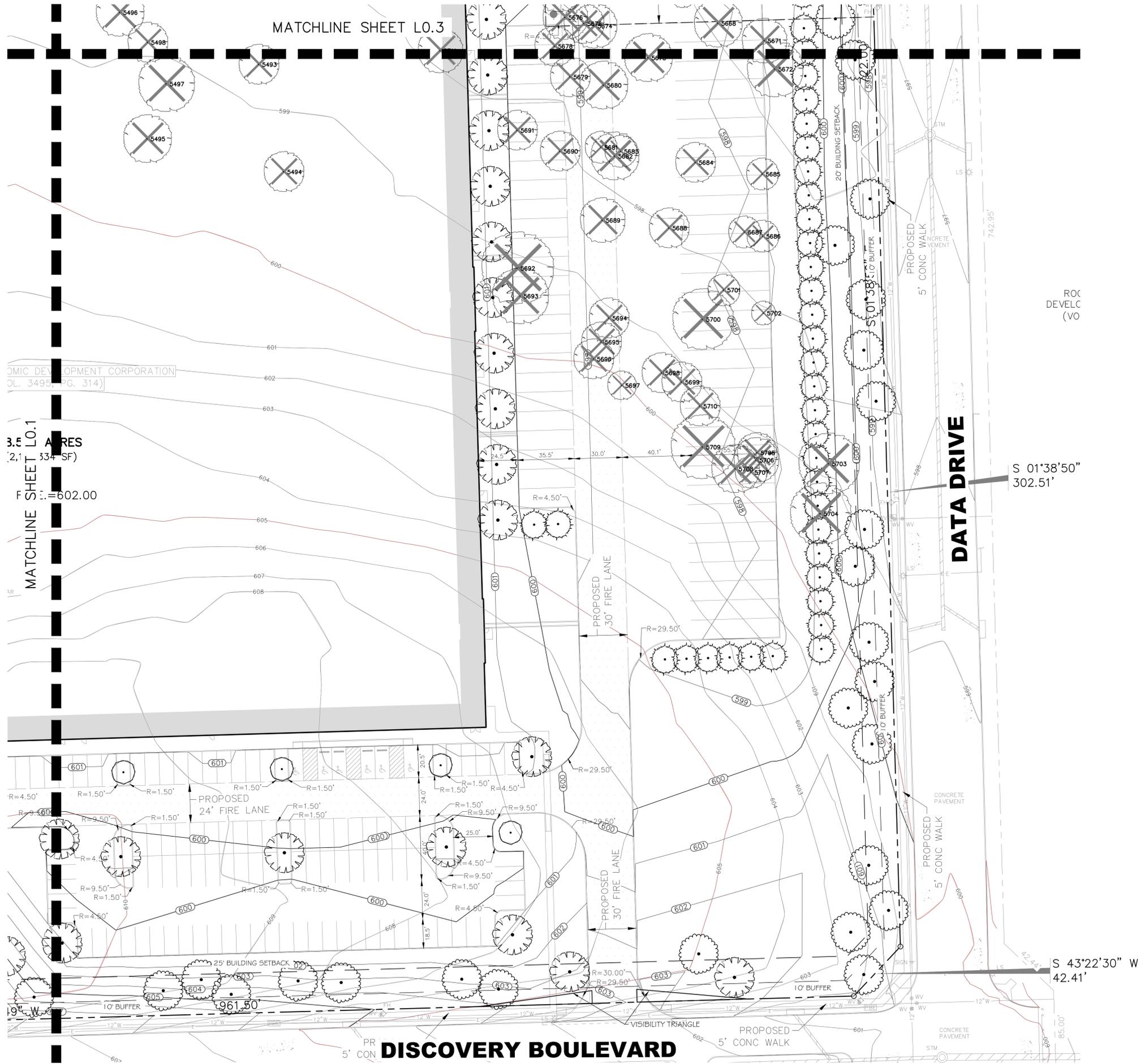
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NORTHWEST CORNER OF DISCOVERY
BOULEVARD & DATA DRIVE
CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
CJT	CRR	MAY 2016	1"=30'			L0.4



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ROCKWALL MANUFACTURING FACILITY

TREE #	TREE TYPE AND INCH	REPLACE INCHES	CREDITS	KEEP/REMOVE/NONPRO.
5102	10" HACKBERRY	0	0	NON-PROTECTED
5104	22" MULTI-TRUNK HACKBERRY	11	0	REMOVE
5105	15" HACKBERRY	7.5	0	REMOVE
5107	8" CEDAR	0	0	NON-PROTECTED
5114	6" CEDAR	0	0	NON-PROTECTED
5115	23" MULTI-TRUNK HACKBERRY	11.5	0	REMOVE
5116	8" HACKBERRY	0	0	NON-PROTECTED
5198	10" HACKBERRY	0	0	NON-PROTECTED
5199	8" HACKBERRY	0	0	NON-PROTECTED
5200	9" CEDAR	0	0	NON-PROTECTED
5201	7" CEDAR	0	0	NON-PROTECTED
5202	6" CEDAR	0	0	NON-PROTECTED
5203	11" CEDAR	5.5	0	REMOVE
5204	7" CEDAR	0	0	NON-PROTECTED
5205	6" CEDAR	0	0	NON-PROTECTED
5206	10" CEDAR	0	0	NON-PROTECTED
5207	10" CEDAR	0	0	NON-PROTECTED
5233	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5234	6" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5235	6" CEDAR	0	0	NON-PROTECTED
5236	6" CEDAR	0	0	NON-PROTECTED
5237	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5238	7" CEDAR	0	0	NON-PROTECTED
5239	7" CEDAR	0	0	NON-PROTECTED
5246	6" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5247	6" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5253	9" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5254	6" CEDAR	0	0	NON-PROTECTED
5255	8" ELM	8	0	REMOVE
5256	6" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5257	14" MULTI-TRUNK CEDAR	7	0	REMOVE
5258	8" CEDAR	0	0	NON-PROTECTED
5259	8" CEDAR	0	0	NON-PROTECTED
5260	12" CEDAR	6	0	REMOVE
5261	11" CEDAR	5.5	0	REMOVE
5262	7" CEDAR	0	0	NON-PROTECTED
5263	8" CEDAR	0	0	NON-PROTECTED
5264	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5265	10" CEDAR	0	0	NON-PROTECTED
5266	6" CEDAR	0	0	NON-PROTECTED
5267	8" CEDAR	0	0	NON-PROTECTED
5268	6" CEDAR	0	0	NON-PROTECTED
5269	8" CEDAR	0	0	NON-PROTECTED
5270	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5271	8" CEDAR	0	0	NON-PROTECTED
5272	8" CEDAR	0	0	NON-PROTECTED
5273	6" CEDAR	0	0	NON-PROTECTED
5274	8" CEDAR	0	0	NON-PROTECTED
5279	6" CEDAR	0	0	NON-PROTECTED
5281	8" CEDAR	0	0	NON-PROTECTED
5282	6" CEDAR	0	0	NON-PROTECTED
5283	6" CEDAR	0	0	NON-PROTECTED
5287	6" CEDAR	0	0	NON-PROTECTED
5288	6" CEDAR	0	0	NON-PROTECTED
5289	6" CEDAR	0	0	NON-PROTECTED
5290	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5291	7" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5307	10" CEDAR	0	0	NON-PROTECTED
5317	22" MULTI-TRUNK COTTONWOOD	0	0	NON-PROTECTED
5318	8" CEDAR	0	0	NON-PROTECTED
5319	10" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5320	6" CEDAR	0	0	NON-PROTECTED
5321	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5322	6" CEDAR	0	0	NON-PROTECTED
5323	8" CEDAR	0	0	NON-PROTECTED
5324	6" CEDAR	0	0	NON-PROTECTED
5325	8" CEDAR	0	0	NON-PROTECTED
5326	10" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5327	10" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5328	13" MULTI-TRUNK CEDAR	6.5	0	REMOVE
5329	11" MULTI-TRUNK CEDAR	5.5	0	REMOVE
5330	8" CEDAR	0	0	NON-PROTECTED
5331	6" CEDAR	0	0	NON-PROTECTED
5332	7" CEDAR	0	0	NON-PROTECTED
5333	6" CEDAR	0	0	NON-PROTECTED
5334	6" CEDAR	0	0	NON-PROTECTED
5335	15" MULTI-TRUNK CEDAR	7.5	0	REMOVE
5336	8" CEDAR	0	0	NON-PROTECTED
5337	12" MULTI-TRUNK CEDAR	6	0	REMOVE
5338	8" CEDAR	0	0	NON-PROTECTED
5339	8" CEDAR	0	0	NON-PROTECTED
5340	8" CEDAR	0	0	NON-PROTECTED
5341	10" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5342	8" CEDAR	0	0	NON-PROTECTED
5343	6" CEDAR	0	0	NON-PROTECTED
5344	6" CEDAR	0	0	NON-PROTECTED
5345	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5346	8" CEDAR	0	0	NON-PROTECTED
5347	8" CEDAR	0	0	NON-PROTECTED
5348	6" CEDAR	0	0	NON-PROTECTED
5349	6" CEDAR	0	0	NON-PROTECTED
5350	8" CEDAR	0	0	NON-PROTECTED
5351	6" CEDAR	0	0	NON-PROTECTED
5352	7" CEDAR	0	0	NON-PROTECTED
5353	6" CEDAR	0	0	NON-PROTECTED
5354	6" CEDAR	0	0	NON-PROTECTED
5355	8" CEDAR	0	0	NON-PROTECTED
5356	8" CEDAR	0	0	NON-PROTECTED
5357	6" CEDAR	0	0	NON-PROTECTED
5358	8" CEDAR	0	0	NON-PROTECTED
5359	9" CEDAR	0	0	NON-PROTECTED
5360	6" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED

TREE #	TREE TYPE AND INCH	REPLACE INCHES	CREDITS	KEEP/REMOVE/NONPRO.
5361	14" MULTI-TRUNK CEDAR	7	0	REMOVE
5362	11" CEDAR	5.5	0	REMOVE
5363	6" CEDAR	0	0	NON-PROTECTED
5364	6" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5365	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5366	6" CEDAR	0	0	NON-PROTECTED
5367	8" CEDAR	0	0	NON-PROTECTED
5368	9" CEDAR	0	0	NON-PROTECTED
5369	6" CEDAR	0	0	NON-PROTECTED
5370	8" CEDAR	0	0	NON-PROTECTED
5371	7" CEDAR	0	0	NON-PROTECTED
5372	6" CEDAR	0	0	NON-PROTECTED
5373	6" CEDAR	0	0	NON-PROTECTED
5374	9" CEDAR	0	0	NON-PROTECTED
5375	6" CEDAR	0	0	NON-PROTECTED
5376	6" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5377	8" CEDAR	0	0	NON-PROTECTED
5378	7" CEDAR	0	0	NON-PROTECTED
5379	9" CEDAR	0	0	NON-PROTECTED
5380	8" CEDAR	0	0	NON-PROTECTED
5381	11" CEDAR	5.5	0	REMOVE
5382	9" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5383	9" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5384	14" MULTI-TRUNK CEDAR	7	0	REMOVE
5385	6" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5400	6" CEDAR	0	0	NON-PROTECTED
5401	28" HACKBERRY	14	0	REMOVE
5402	6" HACKBERRY	0	0	NON-PROTECTED
5403	8" HACKBERRY	0	0	NON-PROTECTED
5404	11" CEDAR	5.5	0	REMOVE
5405	6" CEDAR	0	0	NON-PROTECTED
5406	10" CEDAR	0	0	NON-PROTECTED
5407	6" CEDAR	0	0	NON-PROTECTED
5408	6" CEDAR	0	0	NON-PROTECTED
5409	9" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5410	8" HACKBERRY	0	0	NON-PROTECTED
5411	19" COTTONWOOD	0	0	NON-PROTECTED
5412	8" LOCUST	0	0	NON-PROTECTED
5413	6" CEDAR	0	0	NON-PROTECTED
5414	7" CEDAR	0	0	NON-PROTECTED
5415	8" CEDAR	0	0	NON-PROTECTED
5416	6" CEDAR	0	0	NON-PROTECTED
5417	6" CEDAR	0	0	NON-PROTECTED
5418	6" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5419	6" CEDAR	0	0	NON-PROTECTED
5420	10" CEDAR	0	0	NON-PROTECTED
5421	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5422	6" CEDAR	0	0	NON-PROTECTED
5423	7" CEDAR	0	0	NON-PROTECTED
5424	8" CEDAR	0	0	NON-PROTECTED
5425	10" CEDAR	0	0	NON-PROTECTED
5426	8" CEDAR	0	0	NON-PROTECTED
5427	10" CEDAR	0	0	NON-PROTECTED
5428	6" CEDAR	0	0	NON-PROTECTED
5429	8" CEDAR	0	0	NON-PROTECTED
5430	7" CEDAR	0	0	NON-PROTECTED
5431	6" HACKBERRY	0	0	NON-PROTECTED
5432	7" MULTI-TRUNK HACKBERRY	0	0	NON-PROTECTED
5433	10" MULTI-TRUNK ELM	10	0	REMOVE
5434	6" CEDAR	0	0	NON-PROTECTED
5435	8" CEDAR	0	0	NON-PROTECTED
5436	7" CEDAR	0	0	NON-PROTECTED
5438	7" CEDAR	0	0	NON-PROTECTED
5466	10" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5467	6" CEDAR	0	0	NON-PROTECTED
5468	8" CEDAR	0	0	NON-PROTECTED
5469	8" CEDAR	0	0	NON-PROTECTED
5470	6" CEDAR	0	0	NON-PROTECTED
5471	6" CEDAR	0	0	NON-PROTECTED
5472	6" CEDAR	0	0	NON-PROTECTED
5473	12" MULTI-TRUNK CEDAR	6	0	REMOVE
5474	6" CEDAR	0	0	NON-PROTECTED
5475	10" CEDAR	0	0	NON-PROTECTED
5476	6" CEDAR	0	0	NON-PROTECTED
5477	8" CEDAR	0	0	NON-PROTECTED
5478	8" CEDAR	0	0	NON-PROTECTED
5479	8" CEDAR	0	0	NON-PROTECTED
5480	12" MULTI-TRUNK CEDAR	6	0	REMOVE
5481	6" CEDAR	0	0	NON-PROTECTED
5482	6" CEDAR	0	0	NON-PROTECTED
5483	6" CEDAR	0	0	NON-PROTECTED
5484	8" CEDAR	0	0	NON-PROTECTED
5485	8" CEDAR	0	0	NON-PROTECTED
5486	12" MULTI-TRUNK CEDAR	6	0	REMOVE
5487	10" CEDAR	0	0	NON-PROTECTED
5488	8" CEDAR	0	0	NON-PROTECTED
5489	6" CEDAR	0	0	NON-PROTECTED
5490	6" CEDAR	0	0	NON-PROTECTED
5491	8" CEDAR	0	0	NON-PROTECTED
5492	8" CEDAR	0	0	NON-PROTECTED
5493	6" CEDAR	0	0	NON-PROTECTED
5494	6" CEDAR	0	0	NON-PROTECTED
5495	8" CEDAR	0	0	NON-PROTECTED
5496	6" CEDAR	0	0	NON-PROTECTED
5497	8" CEDAR	0	0	NON-PROTECTED
5498	6" CEDAR	0	0	NON-PROTECTED
5499	6" CEDAR	0	0	NON-PROTECTED
5500	6" CEDAR	0	0	NON-PROTECTED
5501	6" CEDAR	0	0	NON-PROTECTED
5502	8" CEDAR	0	0	NON-PROTECTED
5503	6" MISC. TREE	6	0	REMOVE
5504	6" CEDAR	0	0	NON-PROTECTED

TREE #	TREE TYPE AND INCH	REPLACE INCHES	CREDITS	KEEP/REMOVE/NONPRO.
5505	6" CEDAR	0	0	NON-PROTECTED
5506	6" CEDAR	0	0	NON-PROTECTED
5507	6" CEDAR	0	0	NON-PROTECTED
5508	6" CEDAR	0	0	NON-PROTECTED
5509	12" MULTI-TRUNK CEDAR	6	0	REMOVE
5510	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5511	6" CEDAR	0	0	NON-PROTECTED
5512	6" CEDAR	0	0	NON-PROTECTED
5513	8" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5514	6" CEDAR	0	0	NON-PROTECTED
5598	10" CEDAR	0	0	NON-PROTECTED
5599	10" CEDAR	0	0	NON-PROTECTED
5604	8" CEDAR	0	0	NON-PROTECTED
5605	18" MULTI-TRUNK CEDAR	9	0	REMOVE
5606	8" MULTI-TRUNK BOIS D'ARC	0	0	NON-PROTECTED
5607	6" CEDAR	0	0	NON-PROTECTED
5608	8" CEDAR	0	0	NON-PROTECTED
5609	10" CEDAR	0	0	NON-PROTECTED
5610	6" CEDAR	0	0	NON-PROTECTED
5611	8" CEDAR	0	0	NON-PROTECTED
5612	10" CEDAR	0	0	NON-PROTECTED
5613	10" CEDAR	0	0	NON-PROTECTED
5614	10" CEDAR	0	0	NON-PROTECTED
5615	12" MULTI-TRUNK CEDAR	6	0	REMOVE
5616	10" CEDAR	0	0	NON-PROTECTED
5617	10" CEDAR	0	0	NON-PROTECTED
5618	10" CEDAR	0	0	NON-PROTECTED
5619	12" CEDAR	6	0	REMOVE
5620	10" CEDAR	0	0	NON-PROTECTED
5621	10" CEDAR	0	0	NON-PROTECTED
5622	12" CEDAR	6	0	REMOVE
5623	16" MULTI-TRUNK CEDAR	8	0	REMOVE
5624	10" CEDAR	0	0	NON-PROTECTED
5625	12" CEDAR	6	0	REMOVE
5626	8" CEDAR	0	0	NON-PROTECTED
5627	12" MULTI-TRUNK CEDAR	6	0	REMOVE
5628	6" CEDAR	0	0	NON-PROTECTED
5629	8" CEDAR	0	0	NON-PROTECTED
5630	12" CEDAR	6	0	REMOVE
5631	8" CEDAR	0	0	NON-PROTECTED
5632	10" CEDAR	0	0	NON-PROTECTED
5633	8" CEDAR	0	0	NON-PROTECTED
5634	12" CEDAR	6	0	REMOVE
5635	15" MULTI-TRUNK CEDAR	7.5	0	REMOVE
5636	12" CEDAR	6	0	REMOVE
5637	10" CEDAR	0	0	NON-PROTECTED
5638	12" CEDAR	6	0	REMOVE
5639	10" CEDAR	0	0	NON-PROTECTED
5640	18" MULTI-TRUNK CEDAR	9	0	REMOVE
5641	10" CEDAR	0	0	NON-PROTECTED
5642	10" CEDAR	0	0	NON-PROTECTED
5643	8" CEDAR	0	0	NON-PROTECTED
5644	8" CEDAR	0	0	NON-PROTECTED
5645	18" MULTI-TRUNK CEDAR	9	0	REMOVE
5646	14" CEDAR	7	0	REMOVE
5647	8" HACKBERRY	0	0	NON-PROTECTED
5648	8" HACKBERRY	0	0	NON-PROTECTED
5649	15" CEDAR	7.5	0	REMOVE
5650	15" MULTI-TRUNK CEDAR	7.5	0	REMOVE
5651	10" MULTI-TRUNK CEDAR	0	0	NON-PROTECTED
5652	10" CEDAR	0	0	NON-PROTECTED
5653	10" CEDAR	0	0	NON-PROTECTED
5654	10" CEDAR	0	0	NON-PROTECTED
5655	10" CEDAR	0	0	NON-PROTECTED
5656	10" CEDAR	0	0	

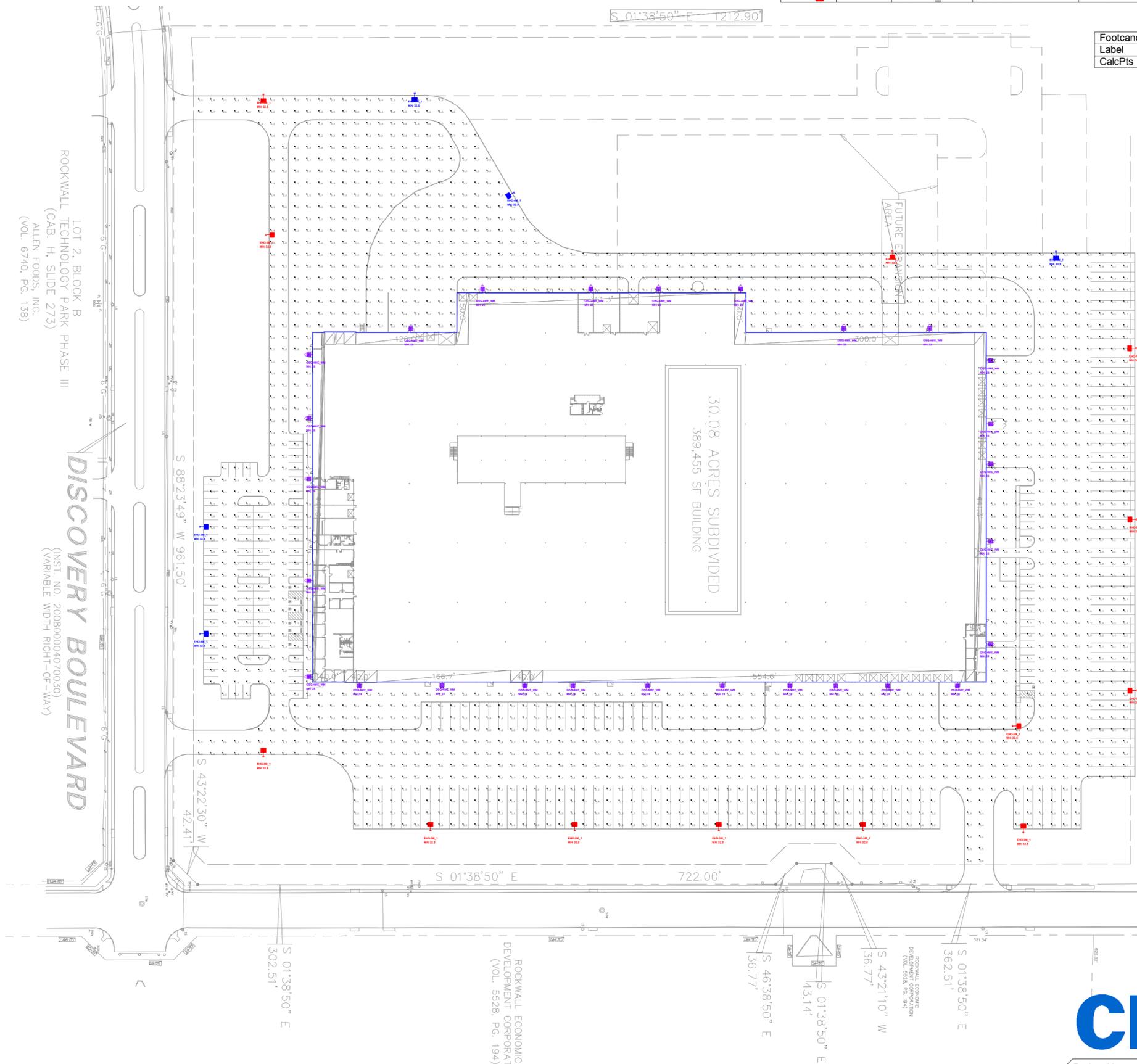
Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lumens/Lamp	LLF	Lum. Watts	Description
	27	OSQ-4ME_WM	WALL MOUNT	22705	0.920	223	OSQ-A-NM-4ME-S-57K-xx-xx
	5	EHO-4M_1	SINGLE	63711	0.950	831	ARE-EHO-4M-HV-24-E-xx-xx-1000
	13	EHO-3M_1	SINGLE	60402	0.950	831	ARE-EHO-3M-HV-24-E-xx-xx-1000

Footcandles calculated using predicted lumen values after 50K hours of operation					
Label	Avg	Max	Min	Avg/Min	Max/Min
CalcPts	2.19	7.9	0.0	N.A.	N.A.

FIXTURE MOUNTING HEIGHTS AS SHOWN
POLE MOUNTED 32' 6" AFG
BUILDING MOUNTED 28' AFG

ADDITIONAL EQUIPMENT REQUIRED:
(18) PS5S30S1xx (30' x 5" x 0.188" STEEL SQUARE POLE, SINGLE MOUNT)
(18) EHO-UNVxx EHO DIRECT MOUNT BRACKET
(27) WM-4xx WALL MOUNT ELBOW BRACKET
(27) OSQ-AAxx ADJUSTABLE ARM MOUNT
PROPOSED POLES MEET 140MPH SUSTAINED WIND LOADS\

***CUSTOMER TO VERIFY MOUNTING, VOLTAGE, AND COLOR PRIOR TO PLACING ORDER



LOT 2, BLOCK B
ROCKWALL TECHNOLOGY PARK PHASE III
(CAB. H, SLIDE 273)
ALLEN FOODS, INC.
(VOL. 6740, PG. 138)

DISCOVERY BOULEVARD
(INST. NO. 200800004070030)
(VARIABLE WIDTH RIGHT-OF-WAY)

ROCKWALL ECONOMIC
DEVELOPMENT CORPORATION
(VOL. 5528, PG. 194)

ROCKWALL ECONOMIC
DEVELOPMENT CORPORATION
(VOL. 5528, PG. 194)



1200 92nd Street - Sturtevant, WI 53177
www.cree.com - (800) 236-6800

Project Name: ROCKWALL DEVELOPMENT PARK SR No. 13725

Date: 4/13/2016 Scale: 1"=100' Footcandles calculated at grade

Filename: 160404RK1JEER3.AGI Layout by: JACOB EDLER

Illumination results shown on this lighting design are based on project parameters provided to Cree, Inc. used in conjunction with luminaire test procedures conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results. The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting, or energy code.



Cree Edge™ Series

LED High Output Area/Flood Luminaire featuring Cree TrueWhite® Technology

Product Description

The Cree Edge™ High Output Area/Flood luminaire is designed to deliver high lumen packages with precise optical control. The unit features a slim, low profile design that minimizes wind load and a rugged die cast aluminum adjustable arm that mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon. Tenon length must be a minimum of 3.75" (95mm). The direct mount bracket accessory allows for further mounting flexibility. Available with Cree TrueWhite® Technology, the Cree Edge™ High Output helps to beautifully render true colors and deliver value beyond energy savings.

Applications: Auto dealerships, parking lots, campuses, facade lighting, high-mast and general site lighting applications

Performance Summary

- Utilizes Cree TrueWhite® Technology on 5000K Luminaires
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- CRI:** Minimum 70 CRI (4000K & 5700K); 90 CRI (5000K)
- CCT:** 4000K (+/- 300K), 5000K (+/- 300K), 5700K (+/- 500K) standard
- Limited Warranty*:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

*See <http://lighting.cree.com/warranty> for warranty terms

Accessories

Field-Installed	
Bird Spikes XA-BRDSPKXAK12 - 120 LED XA-BRDSPKXAK24 - 240 LED	Backlight Control Shields XA-30BLS-4 - Four-pack for 120 LED - Unpainted stainless steel XA-30BLS-8 - Eight-pack for 240 LED - Unpainted stainless steel

Ordering Information

Example: ARE-EHO-2M-HV-12-E-UL-SV-700

Product	Optic			Mounting	LED Count (x10)	Series	Voltage	Color Options	Drive Current	Options
ARE-EHO	2M Type II Medium 2MB Type II Medium w/BLS 3M Type III Medium	3MB Type III Medium w/BLS 4M Type IV Medium 4MB Type IV Medium w/BLS	5M Type V Medium 5S Type V Short AF Automotive FrontlineOptic™	HV Horizontal/ Vertical Tenon - For EHO-UNV direct mount bracket, refer to Tenons & Brackets on page 12	12 24	E	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH White	700 700mA 1000 1000mA	DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current F Fuse - When code dictates fusing, use time delay fuse - Refer to ML spec sheet for availability with ML options - Not available with UH voltage ML Multi-Level - Refer to ML spec sheet for details - Intended for downlight applications at 0° tilt - Not available with UH voltage or 240 LEDs with 1000mA drive current
FLD-EHO	15 15' Flood 25 25' Flood	40 40' Flood 70 70' Flood	SN Sign N6 NEMA® 6							R NEMA® Photocell Receptacle - 3-pin receptacle per ANSI C136.10 - Intended for downlight applications with maximum 45° tilt - Consult factory for vertical tenon application - Photocell and shorting cap by others - Refer to ML spec sheet for availability with ML options 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire 50K 5000K Color Temperature - Minimum 90 CRI - Utilizes Cree TrueWhite® Technology - Color temperature per luminaire

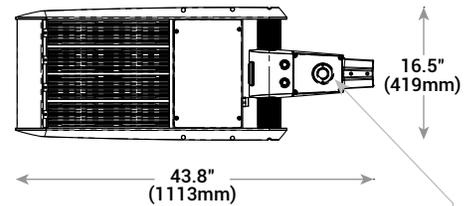
NOTE: Price adder may apply depending on configuration



HV Mount (shown in horizontal position)

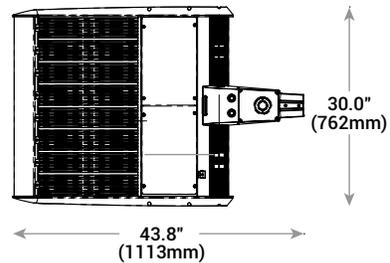


120 LED



NEMA® Photocell Receptacle location (ordered as an option)

240 LED



LED Count (x10)	Weight
12	45.3 lbs. (20.5kg)
24	80.5 lbs. (36.5kg)

HV Mount (shown in Vertical position)

Direct Mount Bracket- see page 13 for weight & dimensions



Rev. Date: V6 01/20/2016



US: www.cree.com/lighting

T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada

T (800) 473-1234 F (800) 890-7507

Product Specifications

CREE TRUEWHITE® TECHNOLOGY

A revolutionary way to generate high-quality white light, Cree TrueWhite® Technology is a patented approach that delivers an exclusive combination of 90+ CRI, beautiful light characteristics and lifelong color consistency, all while maintaining high luminous efficacy – a true no compromise solution.

CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartments and high performance heat sinks
- Adjustable arm that mounts to a horizontal or vertical 2" (51mm) IP, 2.375-2.50" (60-64mm) O.D. steel tenon. Tenon length must be a minimum of 3.75" (95mm)
- Surface-mount directly to a vertical or horizontal surface with direct mount bracket (refer to Tenons and Brackets table on page 12)
- Luminaire may be field adjusted for use in upright position. Please refer to installation instructions for details
- Extruded aluminum adjustable mounting shaft
- Luminaire is adjustable from horizontal 90° towards pole and 120° away from pole
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** See weight charts on pages 1 and 13

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- **Maximum 10V Source Current:** 120 LED: 0.40mA; 240 LED: 0.80mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Consult factory for CE Certified products
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- DLC qualified. Exceptions apply when ordered with backlight control, 5000K CCT with 1000mA drive current, or 5000K CCT with 700mA drive current and 2M, 3M or 70 optics. Please refer to www.designlights.org/QPL for most current information
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- Dark Sky Friendly, IDA Approved. Please refer to www.darksky.org/ for most current information
- RoHS compliant. Consult factory for additional details

Electrical Data*							
LED Count (x10)	System Watts 120-480V	Total Current					
		120V	208V	240V	277V	347V	480V
700mA							
12	267	2.24	1.29	1.12	0.99	0.80	0.58
24	533	4.49	2.57	2.24	1.97	1.62	1.16
1000mA							
12	421	3.61	2.06	1.80	1.61	1.25	0.90
24	831	7.16	4.04	3.54	3.14	2.50	1.81

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

Recommended Cree® Edge High Output Series Lumen Maintenance Factors (LMF) ¹					
Ambient	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Calculated ³ LMF	100K hr Calculated ³ LMF
5°C (41°F)	1.04	0.99	0.97	0.95	0.93
10°C (50°F)	1.03	0.98	0.96	0.94	0.92
15°C (59°F)	1.02	0.97	0.95	0.93	0.91
20°C (68°F)	1.01	0.96	0.94	0.92	0.90
25°C (77°F)	1.00	0.95	0.93	0.91	0.89

¹ Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

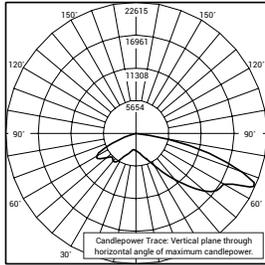
² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip

³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (DUT) i.e. the packaged LED chip

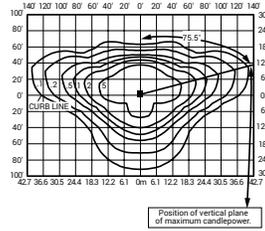
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

2M



ITL Test Report #: 78643
ARE-EHO-2M-**-12-E-UL-1000-40K
Initial Delivered Lumens: 32,284

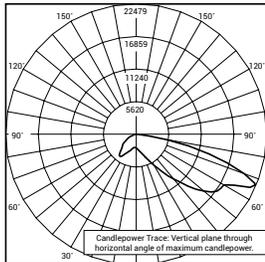


ARE-EHO-2M-**-24-E-UL-1000-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 61,352
Initial FC at grade

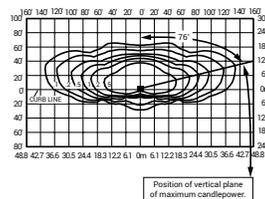
Type II Medium Distribution						
LED Count (x10)	4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
700mA						
12	22,829	B3 U1 G3	18,088	B3 U1 G3	23,707	B3 U1 G3
24	45,687	B5 U1 G4	36,199	B4 U1 G4	47,445	B5 U1 G4
1000mA						
12	30,656	B4 U1 G4	24,289	B3 U1 G3	31,835	B4 U1 G4
24	61,352	B5 U1 G5	48,609	B5 U1 G4	63,711	B5 U1 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

2MB



ITL Test Report #: 78683
ARE-EHO-2MB-**-12-E-UL-1000-40K
Initial Delivered Lumens: 24,579



ARE-EHO-2MB-**-24-E-UL-1000-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 46,213
Initial FC at grade

Type II Medium w/BLS Distribution						
LED Count (x10)	4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
700mA						
12	17,196	B2 U1 G2	13,625	B2 U1 G2	17,857	B2 U1 G2
24	34,414	B3 U1 G4	27,266	B3 U1 G3	35,738	B3 U1 G4
1000mA						
12	23,092	B2 U1 G3	18,296	B2 U1 G2	23,980	B2 U1 G3
24	46,213	B3 U1 G4	36,615	B3 U1 G4	47,990	B3 U1 G5

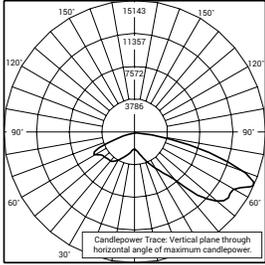
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt



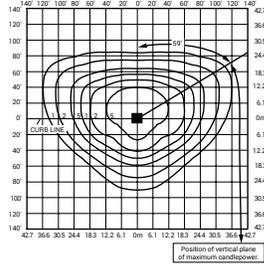
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Tools-and-Support/Exterior-IES-Configuration-Tool

3M



ITL Test Report #: 78638
 ARE-EHO-3M-**-12-E-UL-1000-40K
 Initial Delivered Lumens: 30,916

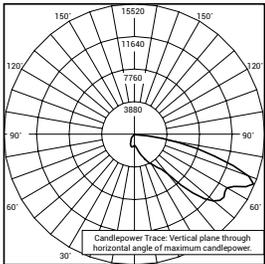


ARE-EHO-3M-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 58,165
 Initial FC at grade

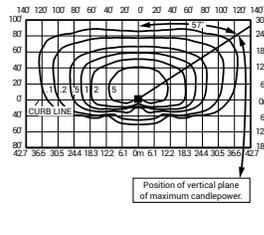
Type III Medium Distribution						
LED Count (x10)	4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
700mA						
12	21,643	B3 U1 G3	17,148	B3 U1 G3	22,476	B4 U1 G4
24	43,314	B4 U1 G4	34,318	B4 U1 G4	44,980	B5 U1 G5
1000mA						
12	29,064	B4 U1 G4	23,028	B3 U1 G3	30,182	B4 U1 G4
24	58,165	B5 U1 G5	46,084	B5 U1 G5	60,402	B5 U1 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

3MB



ITL Test Report #: 78733
 ARE-EHO-3MB-**-12-E-UL-1000
 Initial Delivered Lumens: 23,622



ARE-EHO-3MB-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 43,026
 Initial FC at grade

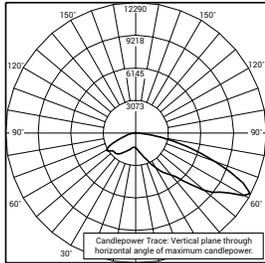
Type III Medium w/BLS Distribution						
LED Count (x10)	4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
700mA						
12	16,010	B2 U1 G3	12,685	B1 U1 G3	16,626	B2 U1 G3
24	32,041	B3 U1 G4	25,386	B2 U1 G4	33,273	B3 U1 G4
1000mA						
12	21,499	B2 U1 G4	17,034	B2 U1 G3	22,326	B2 U1 G4
24	43,026	B3 U1 G5	34,090	B3 U1 G4	44,681	B3 U1 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

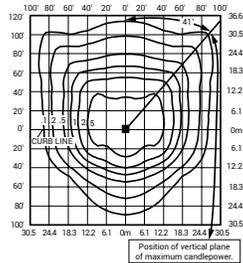
Photometry

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4M



ITL Test Report #: 77685
ARE-EHO-4M-12-E-UL-700-50K
Initial Delivered Lumens: 19,507

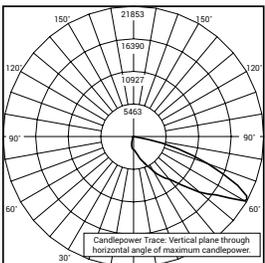


ARE-EHO-4M-24-E-UL-1000-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 61,352
Initial FC at grade

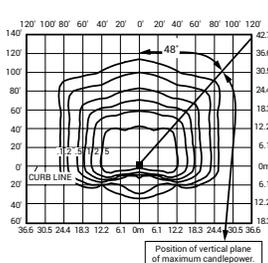
Type IV Medium Distribution						
LED Count (x10)	4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
700mA						
12	22,829	B3 U1 G3	18,088	B3 U1 G3	23,707	B3 U1 G3
24	45,687	B5 U1 G4	36,199	B4 U1 G4	47,445	B5 U1 G4
1000mA						
12	30,656	B4 U1 G4	24,289	B3 U1 G3	31,835	B4 U1 G4
24	61,352	B5 U1 G5	48,609	B5 U1 G5	63,711	B5 U1 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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4MB



ITL Test Report #: 78734
ARE-EHO-4MB-12-E-UL-1000-40K
Initial Delivered Lumens: 25,113



ARE-EHO-4MB-24-E-UL-1000-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 46,213
Initial FC at grade

Type IV Medium w/BLS Distribution						
LED Count (x10)	4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
700mA						
12	17,196	B2 U1 G3	13,625	B1 U1 G2	17,857	B2 U1 G3
24	34,414	B2 U1 G4	27,266	B2 U1 G4	35,738	B3 U1 G4
1000mA						
12	23,092	B2 U1 G3	18,296	B2 U1 G3	23,980	B2 U1 G4
24	46,213	B3 U1 G5	36,615	B3 U1 G4	47,990	B3 U1 G5

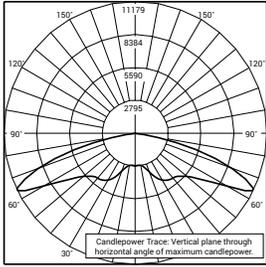
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt



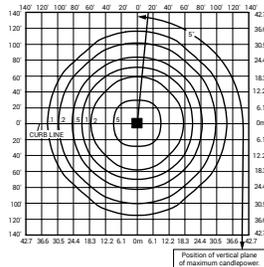
Photometry

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5M



ITL Test Report #: 78580
 ARE-EHO-5M-**-12-E-UL-1000-40K
 Initial Delivered Lumens: 32,328

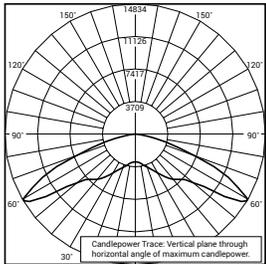


ARE-EHO-5M-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 64,539
 Initial FC at grade

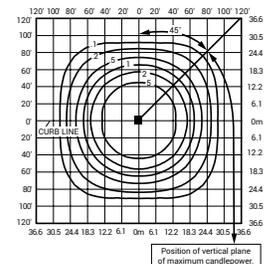
Type V Medium Distribution						
LED Count (x10)	4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
700mA						
12	24,015	B5 U1 G3	19,027	B4 U1 G2	24,939	B5 U1 G3
24	48,061	B5 U1 G4	38,079	B5 U1 G4	49,909	B5 U1 G4
1000mA						
12	32,249	B5 U1 G4	25,551	B5 U1 G3	33,489	B5 U1 G4
24	64,539	B5 U1 G5	51,135	B5 U1 G5	67,021	B5 U1 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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5S



ITL Test Report #: 78687
 ARE-EHO-5S-**-12-E-UL-1000-40K
 Initial Delivered Lumens: 37,329



ARE-EHO-5S-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 71,710
 Initial FC at grade

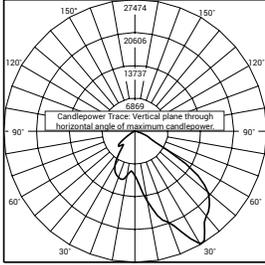
Type V Short Distribution						
LED Count (x10)	4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
700mA						
12	26,684	B4 U0 G2	21,142	B4 U1 G2	27,710	B5 U0 G3
24	53,401	B5 U0 G4	42,310	B5 U1 G4	55,455	B5 U0 G4
1000mA						
12	35,832	B5 U0 G3	28,390	B5 U1 G3	37,210	B5 U0 G3
24	71,710	B5 U0 G5	56,816	B5 U1 G4	74,468	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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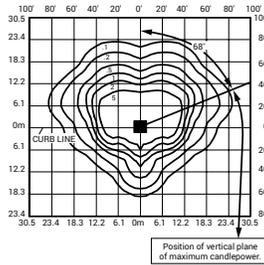
Photometry

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AF



ITL Test Report #: 78579
 ARE-EHO-AF-**-24-E-UL-1000-40K
 Initial Delivered Lumens: 36,341

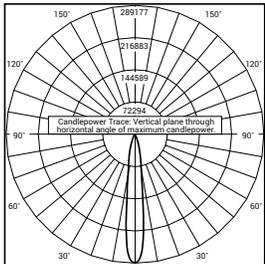


ARE-EHO-AF-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G.
 Initial Delivered Lumens: 69,319
 Initial FC at grade

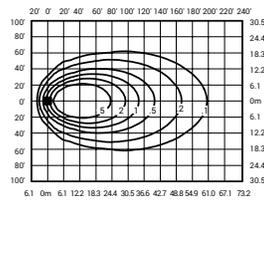
Automotive FrontlineOptic™ Distribution						
LED Count (x10)	4000K		5000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
700mA						
12	25,794	B3 U0 G2	20,437	B3 U0 G1	26,786	B3 U0 G2
24	51,621	B4 U0 G2	40,900	B4 U0 G2	53,606	B4 U0 G2
1000mA						
12	34,638	B4 U0 G2	27,444	B3 U0 G2	35,970	B4 U0 G2
24	69,319	B5 U0 G3	54,922	B4 U0 G2	71,986	B5 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
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15°



ITL Test Report #: 78519
 FLD-EHO-15-**-24-E-UL-1000-40K
 Initial Delivered Lumens: 38,859



FLD-EHO-15-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G. - 60° tilt
 Initial Delivered Lumens: 73,303
 Initial FC at grade

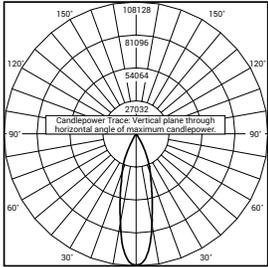
15° Flood Optic Distribution			
LED Count (x10)	4000K	5000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
700mA			
12	27,276	21,611	28,326
24	54,588	43,250	56,687
1000mA			
12	36,628	29,021	38,037
24	73,303	58,079	76,123

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

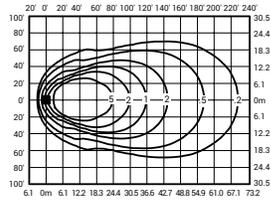
Photometry

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25°



ITL Test Report #: 78520
 FLD-EHO-25-**-12-E-UL-1000-40K
 Initial Delivered Lumens: 38,828

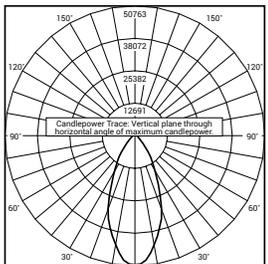


FLD-EHO-25-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G. - 60° tilt
 Initial Delivered Lumens: 73,303
 Initial FC at grade

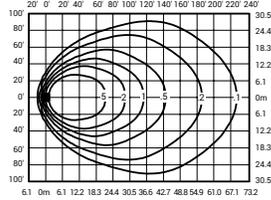
25° Flood Optic Distribution			
LED Count (x10)	4000K	5000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
700mA			
12	27,276	21,611	28,326
24	54,588	43,250	56,687
1000mA			
12	36,628	29,021	38,037
24	73,303	58,079	76,123

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

40°



ITL Test Report #: 78521
 FLD-EHO-40-**-12-E-UL-1000-40K
 Initial Delivered Lumens: 36,476



FLD-EHO-40-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G. - 60° tilt
 Initial Delivered Lumens: 71,710
 Initial FC at grade

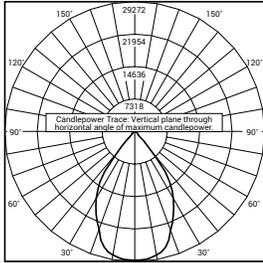
40° Flood Optic Distribution			
LED Count (x10)	4000K	5000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
700mA			
12	26,684	21,142	27,710
24	53,401	42,310	55,455
1000mA			
12	35,832	28,390	37,210
24	71,710	56,816	74,468

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

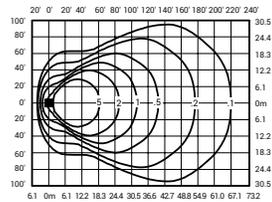
Photometry

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70°



ITL Test Report #: 78522
 FLD-EHO-70-**-12-E-UL-1000-40K
 Initial Delivered Lumens: 33,030

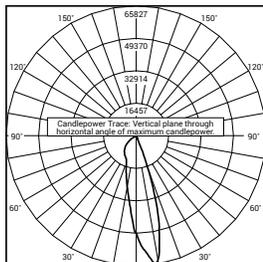


FLD-EHO-70-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G. - 60° tilt
 Initial Delivered Lumens: 65,336
 Initial FC at grade

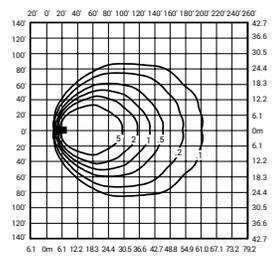
70° Flood Optic Distribution			
LED Count (x10)	4000K	5000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
700mA			
12	24,312	19,262	25,247
24	48,654	38,549	50,525
1000mA			
12	32,647	25,867	33,903
24	65,336	51,766	67,849

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

SN



ITL Test Report #: 78563
 FLD-EHO-SN-**-12-E-UL-1000-40K
 Initial Delivered Lumens: 34,961



FLD-EHO-SN-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G. - 60° tilt
 Initial Delivered Lumens: 66,132
 Initial FC at grade

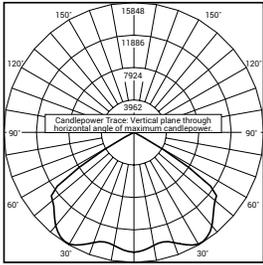
Sign Optic Distribution			
LED Count (x10)	4000K	5000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
700mA			
12	24,608	19,497	25,555
24	49,248	39,019	51,142
1000mA			
12	33,045	26,182	34,316
24	66,132	52,397	68,676

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

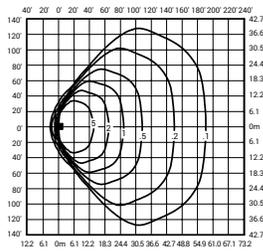
Photometry

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N6



ITL Test Report #: 78562
 FLD-EHO-N6-**-12-E-UL-1000-40K
 Initial Delivered Lumens: 38,110



FLD-EHO-N6-**-24-E-UL-1000-40K
 Mounting Height: 25' (7.6m) A.F.G. - 60° tilt
 Initial Delivered Lumens: 73,303
 Initial FC at grade

NEMA 6 Distribution			
LED Count (x10)	4000K	5000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
700mA			
12	27,276	21,611	28,326
24	54,588	43,250	56,687
1000mA			
12	36,628	29,021	38,037
24	73,303	58,079	76,123

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

Luminaire EPA

Horizontal/Vertical Tenon Mount and EHO-UNV Direct Mount Bracket											
LED Count (x10)	Luminaire Weight	Single	2 @ 90°	2 @ 180°	2 @ 180°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 90°	4 @ 180°	
Tenon Configuration If used with Cree tenons, please add tenon EPA with Luminaire EPA											
	Vertical	Horizontal	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	
	 PB-1A*; PW-1A3; EHO-UNV	 Horizontal Tenon	 PB-2A*; PB-2R2.375; PW-2A3; (2) EHO-UNV	 PB-2A*; PB-2R2.375; PW-2A3 (picture does not apply)	 PB-2A*; PB-2R2.375; PW-2A3 (picture doesn't apply)	 PB-3A*; PB-3R2.375; (3) EHO-UNV	 PB-3A*; PB-3R2.375	 PB-3A*; PB-3R2.375	 PB-4A*(90); PB-4R2.375; (4) EHO-UNV	 PB-4A*(180); PB-4R2.375	
0° Tilt											
12	45.3 lbs. (20.6kg)	1.41	1.41	2.35	2.83	2.83	3.76	3.76	4.24	4.70	5.66
24	80.5 lbs. (36.6kg)	1.41	1.41	2.80	2.83	N/A	4.22	4.22	N/A	5.61	N/A
10° Tilt											
12	45.3 lbs. (20.6kg)	1.49	1.41	2.90	2.98	2.98	4.39	4.39	5.96	5.81	7.95
24	80.5 lbs. (36.6kg)	2.38	1.97	2.38	4.76	N/A	6.18	6.18	N/A	7.59	N/A
20° Tilt											
12	45.3 lbs. (20.6kg)	2.11	1.71	3.53	4.22	4.22	5.64	5.64	8.45	7.05	11.26
24	80.5 lbs. (36.6kg)	3.46	3.11	4.87	6.92	N/A	7.12	7.12	N/A	9.74	N/A
30° Tilt											
12	45.3 lbs. (20.6kg)	2.69	2.30	4.11	5.39	5.39	6.80	6.80	10.78	8.22	14.37
24	80.5 lbs. (36.6kg)	4.59	4.23	6.97	9.19	N/A	10.60	10.60	N/A	12.01	N/A
45° Tilt											
12	45.3 lbs. (20.6kg)	3.50	3.11	4.91	6.99	6.99	8.40	8.40	13.98	9.82	18.64
24	80.5 lbs. (36.6kg)	6.03	5.73	7.44	10.31	N/A	13.48	13.48	N/A	14.89	N/A
60° Tilt											
12	45.3 lbs. (20.6kg)	4.12	3.74	5.54	8.25	8.25	9.66	9.66	16.49	11.08	21.99
24	80.5 lbs. (36.6kg)	7.24	6.91	8.65	12.37	N/A	15.89	15.89	N/A	17.30	N/A
70° Tilt											
12	45.3 lbs. (20.6kg)	4.41	4.03	5.83	8.83	8.83	10.24	10.24	17.65	11.65	23.54
24	80.5 lbs. (36.6kg)	7.76	7.45	9.17	15.51	N/A	16.93	16.93	N/A	18.34	N/A
80° Tilt											
12	45.3 lbs. (20.6kg)	4.59	4.21	6.00	9.18	9.18	10.59	10.59	18.36	12.01	24.47
24	80.5 lbs. (36.6kg)	8.06	7.79	9.48	16.12	N/A	17.54	17.54	N/A	18.95	N/A
90° Tilt											
12	45.3 lbs. (20.6kg)	4.64	4.26	6.06	9.29	9.29	10.70	10.70	18.58	12.12	24.77
24	80.5 lbs. (36.6kg)	8.14	7.89	9.56	16.29	N/A	17.70	17.70	N/A	19.12	N/A

Note: Not for use with aluminum tenons



Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(90)	1.11
PB-4A*(180)	2.22
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-2L	0.13
WM-4L	0.32
EHO-UNV	0.22

Tenons and Brackets* (must specify color)	
Square Internal Mount Vertical Tenons (Steel) - Mounts to 3-6" (76-152mm) square aluminum or steel poles PB-1A* – Single PB-2A* – 180° Twin PB-3A* – 180° Triple PB-4A*(90) – 90° Quad PB-4A*(180) – 180° Quad	Round External Mount Vertical Tenons (Steel) - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons PB-2R2.375 – Twin PB-3R2.375 – Triple PB-4R2.375 – Quad
Wall Mount Brackets - Mounts to wall or roof WM-2 – Horizontal WM-2L – Extended Horizontal WM-4L – Extended L-Shape	Mid-Pole Bracket - Mounts to square pole PW-1A3** – Single PW-2A3** – Double
	Direct Mount Bracket - Mounts to minimum 4" (102mm) round or square; aluminum or steel pole or can be surface-mounted directly to a vertical or horizontal surface - See Direct Mount Configurations table below - Poles must be field drilled for direct mount EHO-UNV

† Refer to the [Bracket and Tenons spec sheet](#) for more details

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
 ** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

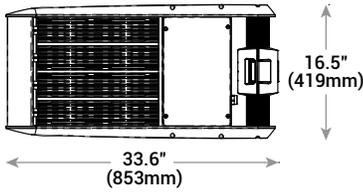
Direct Mount Configurations

Compatibility with EHO-UNV Direct Mount Bracket						
LED Count (x10)	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°	
4" Square						
12	✓	✓	N/A	N/A	N/A	
24	✓	✓	N/A	N/A	N/A	
4" Round						
12	N/A	✓	N/A	N/A	N/A	
24	N/A	✓	N/A	N/A	N/A	
5" Square						
12	✓	✓	✓	N/A	✓	
24	✓	✓	✓	N/A	✓	
5" Round						
12	N/A	✓	N/A	✓	N/A	
24	N/A	✓	N/A	✓	N/A	
6" Square						
12	✓	✓	✓	N/A	✓	
24	✓	✓	✓	N/A	✓	
6" Round						
12	✓	✓	✓	✓	✓	
24	✓	✓	✓	✓	✓	

Cree Edge™ LED High Output Area/Flood Luminaire

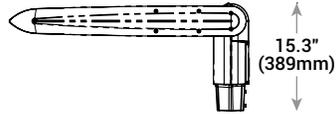
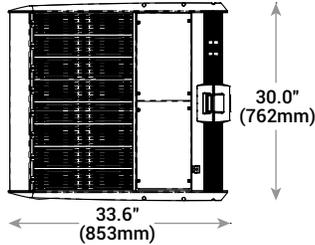
HV Mount (shown in vertical position)

120 LED



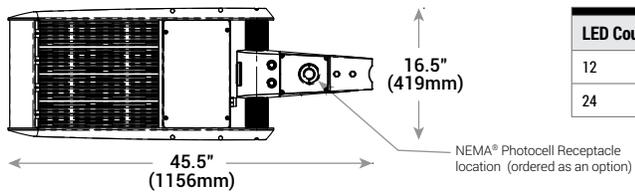
LED Count (x10)	Weight
12	45.3 lbs. (20.5kg)
24	80.5 lbs. (36.5kg)

240 LED



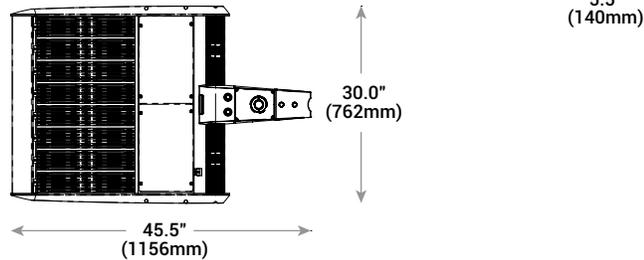
Direct Mount Bracket (accessory sold separately)

120 LED



LED Count (x10)	Weight
12	45.3 lbs. (20.5kg)
24	80.5 lbs. (36.5kg)

240 LED



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OSQ Series

OSQ™ LED Area/Flood Luminaire – Large

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. 'S' Input power designator is a suitable upgrade for HID applications up to 750 Watts.

Applications: Parking lots, walkways, campuses, auto dealerships, office complexes, and internal roadways

Performance Summary

NanoOptic® Precision Delivery Grid™ optic

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI (4000K & 5700K); 80 CRI (3000K)

CCT: 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

*See www.cree.com/lighting/products/warranty for warranty terms

Accessories

Field-Installed	
Backlight Shield OSQ-BLSLF – Front facing optics	OSQ-BLSLR – Rotated optics

Ordering Information

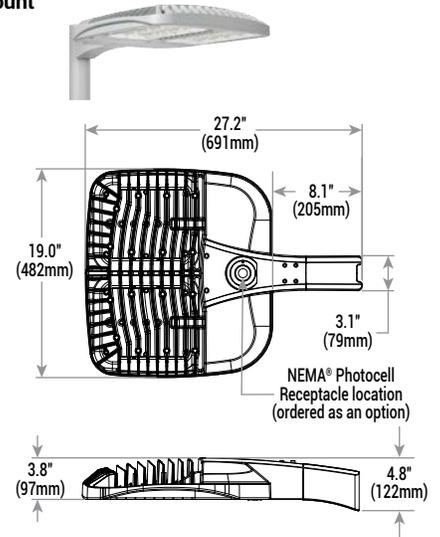
Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-AA-SV + **Luminaire:** OSQ-A-NM-2ME-S-40K-UL-SV

Mount (Luminaire must be ordered separately)	
OSQ-	
OSQ-AA Adjustable Arm	Color Options: SV Silver, BK Black, BZ Bronze, WH White
OSQ-DA Direct Arm	

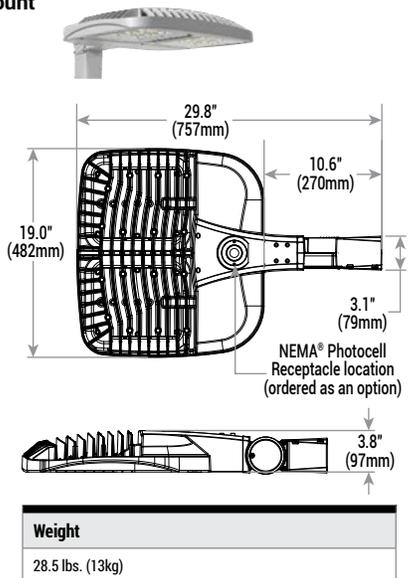
Luminaire (Mount must be ordered separately)									
OSQ	A	NM	Optic		S	CCT	Voltage	Color Options	Options
OSQ	A	NM No Mount	2ME* Type II Medium	WSN Wide Sign	S 223W	30K 3000K 40K 4000K 57K 5700K	UL Universal 120-277V UH Universal 347-480V	BK Black BZ Bronze SV Silver WH White	DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed wattage of specified input power designator F Fuse - When code dictates fusing, use time delay fuse ML Multi-Level - Refer to ML spec sheet for details - High: 100%, Low: 30% - Intended for downlight applications at 0° tilt PML Programmable Multi-Level, 20-40' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt PML2 Programmable Multi-Level, 10-30' Mounting Height - Refer to PML spec sheet for details - Intended for downlight applications at 0° tilt Q9 Field Adjustable Output - Refer to Field Adjustable Output spec sheet for details R NEMA® Photocell Receptacle - Intended for downlight applications with maximum 45° tilt - Photocell by others RL Rotate Left - LED and optic are rotated to the left RR Rotate Right - LED and optic are rotated to the right

* Available with Backlight Shield when ordered with field-installed accessory (see table above)

DA Mount



AA Mount



US: www.cree.com/lighting

T (800) 236-6800 F (262) 504-5415

Rev. Date: V7 11/19/2015

Canada: www.cree.com/canada



T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adaptor is rugged die cast aluminum and mounts to 3-6" (76-152mm) square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adaptor is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180° in 2.5° increments
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, and white are available
- **Weight:** 28.5 lbs. (13kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used
- **10V Source Current:** 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Meets FCC Part 15 standards for conducted and radiated emissions
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- DLC qualified when ordered with 30K (5ME, 5SH optics), or 40K and 57K (2ME, 3ME, 4ME, 5ME, 5SH, 15D, 25D, 40D, 60D optics). Please refer to www.designlights.org/QPL for most current information
- Dark Sky Friendly, IDA approved. Please refer to www.darksky.org/ for most current information
- RoHS compliant. Consult factory for additional details

Electrical Data*							
Input Power Designator	System Watts 120-480V	Total Current					
		120V	208V	240V	277V	347V	480V
S	223	1.94	1.13	0.99	0.85	0.65	0.47

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/-10%

Recommended OSQ Series Lumen Maintenance Factors (LMF) ¹						
Ambient	Optic	Initial LMF	25K hr Projected ² LMF	50K hr Projected ² LMF	75K hr Projected/ Calculated ^{2,3} LMF	100K hr Calculated ³ LMF
5°C (41°F)	2ME, 3ME, 4ME	1.04	0.99	0.93	0.89	0.84
	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	1.05	0.94	0.86	0.80	0.74
10°C (50°F)	2ME, 3ME, 4ME	1.03	0.98	0.93	0.88	0.83
	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	1.04	0.93	0.86	0.79	0.73
15°C (59°F)	2ME, 3ME, 4ME	1.02	0.97	0.92	0.87	0.82
	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	1.03	0.92	0.85	0.78	0.72
20°C (68°F)	2ME, 3ME, 4ME	1.01	0.96	0.91	0.86	0.82
	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	1.01	0.90	0.83	0.77	0.71
25°C (77°F)	2ME, 3ME, 4ME	1.00	0.95	0.90	0.85	0.81
	5ME, 5SH, 15D, 25D, 40D, 60D, WSN	1.00	0.89	0.82	0.76	0.70

¹ Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

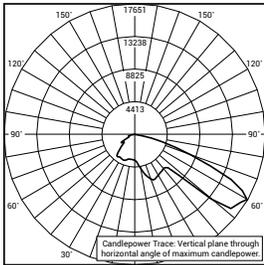
² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

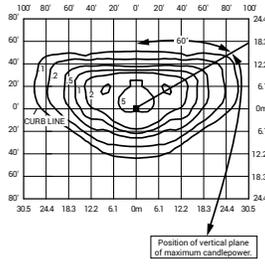
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Products/Outdoor/Area/OSQ-Series

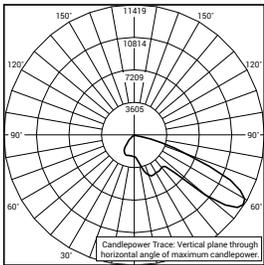
2ME



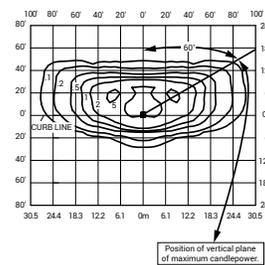
RESTL Test Report #: PL03403-001
OSQ-A-**-2ME-S-40K-UL
Initial Delivered Lumens: 21,329



OSQ-A-**-2ME-S-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 21,696
Initial FC at grade

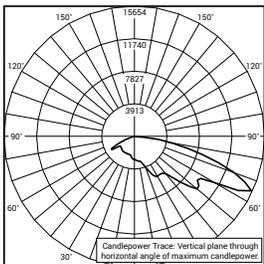


RESTL Test Report #: PL03642-003
OSQ-A-**-2ME-J-40K-UL w/OSQ-BLSMF
Initial Delivered Lumens: 14,643

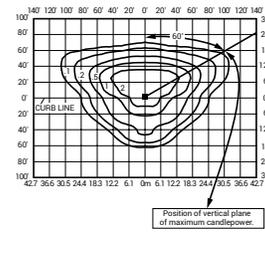


OSQ-A-**-2ME-S-40K-UL w/OSQ-BLSLF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 18,597
Initial FC at grade

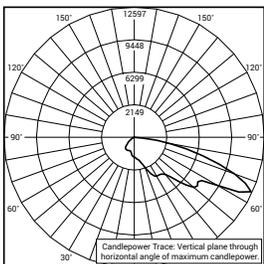
3ME



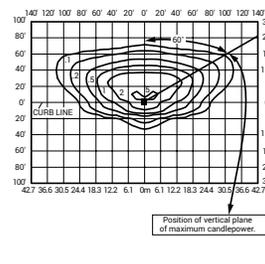
RESTL Test Report #: PL03439-001
OSQ-A-**-3ME-S-40K-UL
Initial Delivered Lumens: 21,013



OSQ-A-**-3ME-S-40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 21,475
Initial FC at grade



RESTL Test Report #: PL03642-001
OSQ-A-**-3ME-J-40K-UL w/OSQ-BLSMF
Initial Delivered Lumens: 14,229



OSQ-A-**-3ME-S-40K-UL w/OSQ-BLSLF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 18,375
Initial FC at grade

Type II Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
S	18,182	B3 U0 G2	21,696	B3 U0 G3	23,179	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type II Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
S	15,584	B2 U0 G2	18,597	B3 U0 G2	19,867	B3 U0 G2

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type III Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
S	17,996	B3 U0 G3	21,475	B3 U0 G3	22,942	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type III Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
S	15,399	B2 U0 G3	18,375	B2 U0 G3	19,631	B2 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

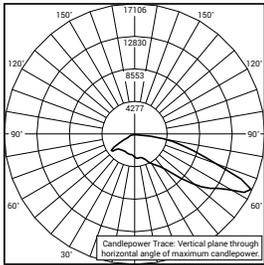


OSQ™ LED Area/Flood Luminaire – Large

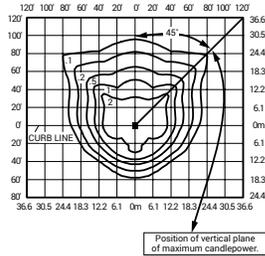
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Products/Outdoor/Area/OSQ-Series

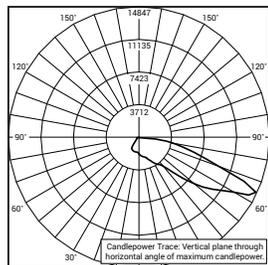
4ME



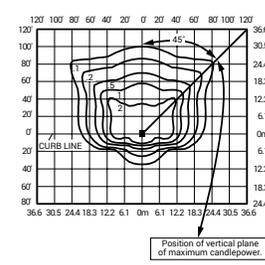
RESTL Test Report #: PL03402-001
OSQ-A-4ME-S-40K-UL**
Initial Delivered Lumens: 20,830



OSQ-A-4ME-S-40K-UL**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 21,253
Initial FC at grade

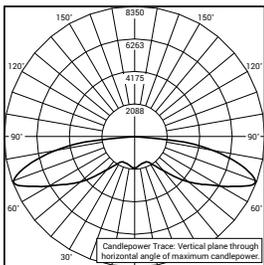


RESTL Test Report #: PL03642-002
OSQ-A-4ME-J-40K-UL w/OSQ-BLSMF**
Initial Delivered Lumens: 13,647

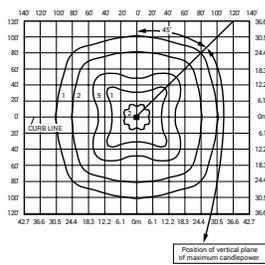


OSQ-A-4ME-S-40K-UL w/OSQ-BLSLF**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 18,154
Initial FC at grade

5ME

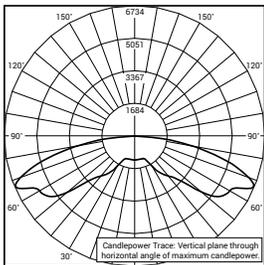


RESTL Test Report #: PL03466-001
OSQ-A-5ME-S-40K-UL**
Initial Delivered Lumens: 20,709

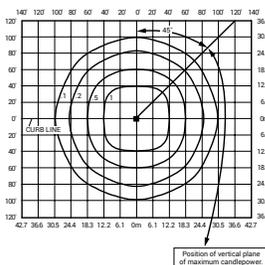


OSQ-A-5ME-S-40K-UL**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 20,536
Initial FC at grade

5SH



RESTL Test Report #: PL03501-001
OSQ-A-5SH-S-40K-UL**
Initial Delivered Lumens: 21,066



OSQ-A-5SH-S-40K-UL**
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 20,982
Initial FC at grade

Type IV Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
S	17,811	B3 U0 G3	21,253	B3 U0 G3	22,705	B3 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type IV Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
S	15,213	B2 U0 G3	18,154	B2 U0 G3	19,394	B2 U0 G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type V Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
S	17,345	B4 U0 G5	20,536	B5 U0 G5	20,841	B5 U0 G5

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Type V Short Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
S	17,722	B4 U0 G4	20,982	B5 U0 G4	21,294	B5 U0 G4

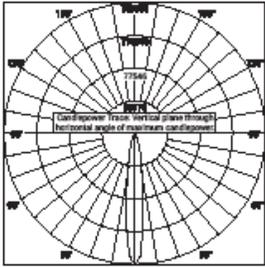
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
 ** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt



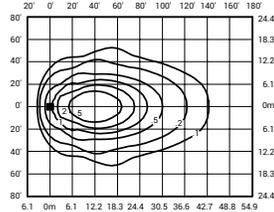
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Products/Outdoor/Area/OSQ-Series

15D



RESTL Test Report #: PL03903-001
OSQ-A**-15D-S-40K-UL
Initial Delivered Lumens: 22,600

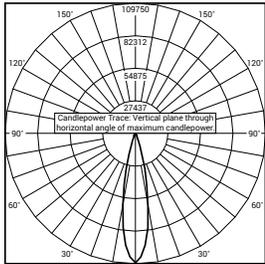


OSQ-A**-15D-S-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 21,423
Initial FC at grade

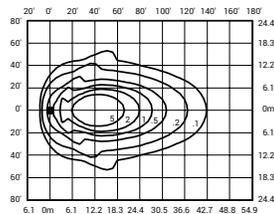
15' Flood Distribution			
Input Power Designator	3000K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*
S	18,094	21,423	21,741

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

25D



RESTL Test Report #: PL03903-002
OSQ-A**-25D-S-40K-UL
Initial Delivered Lumens: 22,633

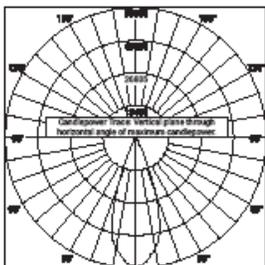


OSQ-A**-25D-S-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 21,423
Initial FC at grade

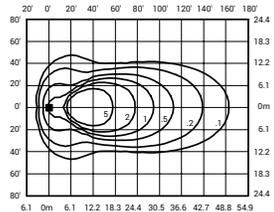
25' Flood Distribution			
Input Power Designator	3000K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*
S	18,094	21,423	21,741

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

40D



RESTL Test Report #: PL03903-003
OSQ-A**-40D-S-40K-UL
Initial Delivered Lumens: 22,404



OSQ-A**-40D-S-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 21,200
Initial FC at grade

40' Flood Distribution			
Input Power Designator	3000K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*
S	17,906	21,200	21,515

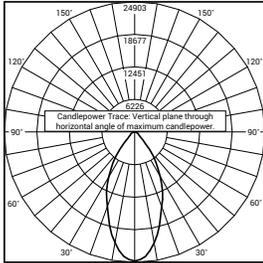
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

OSQ™ LED Area/Flood Luminaire – Large

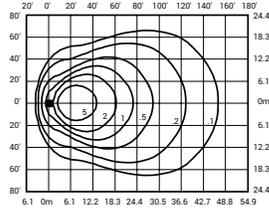
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: www.cree.com/Lighting/Products/Outdoor/Area/OSQ-Series

60D



RESTL Test Report #: PL03903-004
OSQ-A-60D-S-40K-UL
Initial Delivered Lumens: 22,301

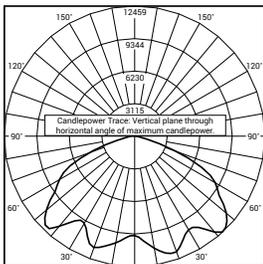


OSQ-A-60D-S-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° Tilt
Initial Delivered Lumens: 21,423
Initial FC at grade

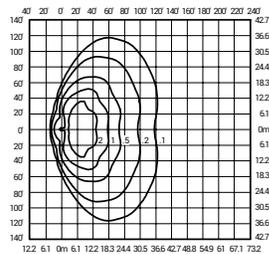
60° Flood Distribution			
Input Power Designator	3000K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*
S	18,094	21,423	21,741

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

WSN



RESTL Test Report #: PL04597-001
OSQ-A-WSN-S-40K-UL
Initial Delivered Lumens: 19,087



OSQ-A-WSN-S-40K-UL
Mounting Height: 25' (7.6m) A.F.G., 60° tilt
Initial Delivered Lumens: 20,997
Initial FC at grade

Wide Sign Distribution			
Input Power Designator	3000K	4000K	5700K
		Initial Delivered Lumens*	Initial Delivered Lumens*
S	17,734	20,997	21,309

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

OSQ™ LED Area/Flood Luminaire – Large

Luminaire EPA

Fixed Arm Mount – OSQ-DA Weight: 28.5 lbs. (13kg)					
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	4 @ 90°
					
0.80	1.61	1.26	2.06	1.68	2.52

Adjustable Arm Mount – OSQ-AA Weight: 28.5 lbs. (13kg)							
Single	2 @ 180°	2 @ 90°	3 @ 90°	3 @ 120°	3 @ 180°	4 @ 180°	4 @ 90°
Tenon Configuration (0°-80° Tilt); If used with Cree tenons, please add tenon EPA with Luminaire EPA							
							
PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*; PD-2A4(90); PT-2(90)	PB-3A*; PD-3A4(90); PT-3(90)	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375; PD-4A4(90); PT-4(90)
0° Tilt							
0.80	1.61	1.26	2.06	1.68	3.33	4.66	2.52
10° Tilt							
0.81	1.61	1.62	2.42	2.32	4.40	6.08	3.24
20° Tilt							
1.24	1.61	2.04	2.84	3.13	5.68	7.80	4.08
30° Tilt							
1.64	1.64	2.44	3.24	3.97	6.88	9.40	4.88
45° Tilt							
2.20	2.20	3.00	3.80	5.07	8.55	11.64	6.00
60° Tilt							
2.63	2.63	3.43	4.23	5.73	9.84	13.36	6.86
70° Tilt							
2.82	2.82	3.62	4.42	5.73	10.41	14.12	7.24
80° Tilt							
2.93	2.93	3.73	4.53	5.73	10.74	14.56	7.46
Tenon Configuration (90° Tilt); If used with Cree tenons, please add tenon EPA with Luminaire EPA							
							
PB-1A*; PT-1; PW-1A3**	PB-2A*; PB-2R2.375; PD-2A4(180); PT-2(180); PW-2A3**	PB-2A*	PB-3A*	PB-3A*; PT-3(120)	PB-3A*; PB-3R2.375	PB-4A*(180)	PB-4A*(90); PB-4R2.375
90° Tilt							
2.95	2.95	4.84	6.52	5.73	10.81	14.64	11.19

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation
 ** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")



Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R2.375	0.92
PB-3R2.375	1.62
PB-4R2.375	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3**	0.47
PW-2A3**	0.94
WM-2	0.08
WM-4	0.25
WM-DM	None

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") for single, double or triple luminaire orientation or 4 (4"), 5 (5"), or 6 (6") for quad luminaire orientation

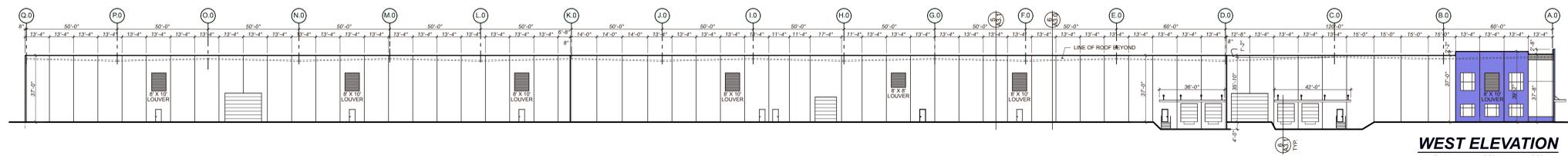
** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height. Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6")

Tenons and Brackets [†] (must specify color)	
Square Internal Mount Vertical Tenons (Steel) - Mounts to 3-6" (76-152mm) square aluminum or steel poles PB-1A* – Single PB-4A*(90) – 90° Quad PB-2A* – 180° Twin PB-4A*(180) – 180° Quad PB-3A* – 180° Triple	Round External Mount Vertical Tenons (Steel) - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons PB-2R2.375 – Twin PB-4R2.375 – Quad PB-3R2.375 – Triple
Square Internal Mount Horizontal Tenons (Aluminum) - Mounts to 4" (102mm) square aluminum or steel poles PD-2A4(90) – 90° Twin PD-3A4(90) – 90° Triple PD-2A4(180) – 180° Twin PD-4A4(90) – 90° Quad	Round External Mount Horizontal Tenons (Aluminum) - Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons - Mounts to square pole with PB-1A* tenon PT-1 – Single (Vertical) PT-3(90) – 90° Triple PT-2(90) – 90° Twin PT-4(90) – 90° Quad PT-2(180) – 180° Twin
Wall Mount Brackets - Mounts to wall or roof WM-2 – Horizontal for OSQ-AA mount WM-4 – L-Shape for OSQ-AA mount WM-DM – Plate for OSQ-DA mount	Mid-Pole Bracket - Mounts to square pole PW-1A3** – Single PW-2A3** – Double

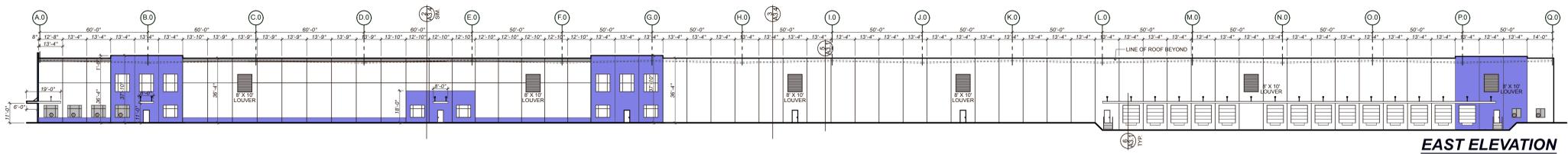
[†] Refer to the [Bracket and Tenons spec sheet](#) for more details

Direct Mount Configurations

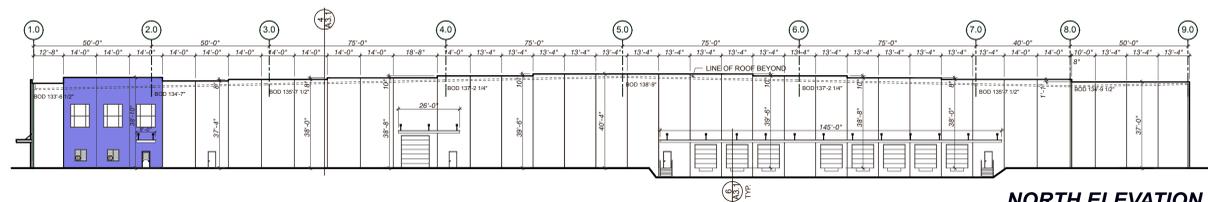
Compatibility with OSQ-DA Direct Mount Bracket					
Input Power Designator	2 @ 90°	2 @ 180°	3 @ 90°	3 @ 120°	4 @ 90°
3" Square					
S	N/A	✓	N/A	N/A	N/A
3" Round					
S	N/A	✓	N/A	N/A	N/A
4" Square					
S	✓	✓	✓	N/A	✓
4" Round					
S	✓	✓	✓	✓	✓
5" Square					
S	✓	✓	✓	N/A	✓
5" Round					
S	✓	✓	✓	✓	✓
6" Square					
S	✓	✓	✓	N/A	✓
6" Round					
S	✓	✓	✓	✓	✓



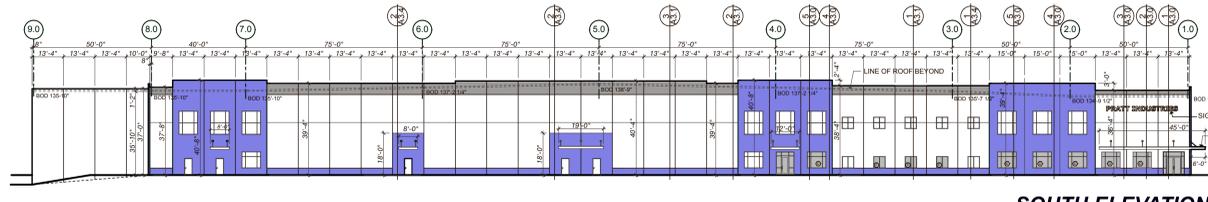
WEST ELEVATION



EAST ELEVATION



NORTH ELEVATION



SOUTH ELEVATION

NO.	DATE	BY	DESCRIPTION
1	4.12.16		RELEASED FOR PERMIT APPLICATION

SCALE	DATE
	4.12.16
DWN BY	CHECKED
MV PROJ. NO.	JOB. NO.
	16.007
TITLE	
	ELEVATIONS
SHEET NO.	
	A2.0