

VICINITY MAP N.T.S.

				CODE ANAL	YSIS		
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD	COLUMNS	TYPE OF HAIL NET	REFERENCE FOR COLUMN SUPPORT
Α	S2	2-B	2268	N/A	5	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
В	S2	2-B	2106	N/A	5	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
D	S2	2-B	975	N/A	3	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
E	S2	2-B	722	N/A	3	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
F	S2	2-B	980	N/A	3	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
G	S2	2-B	1542	N/A	3	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
Н	S2	2-B	4195	N/A	7	SINGLE HERITAGE CANTILEVER	1001-1.0-3000
P	S2	2-B	9600	N/A	9	CUSTOM PROTECTOR CANTILEVER	1001-2.0-3000
R	S2	2-B	9600	N/A	9	CUSTOM PROTECTOR CANTILEVER	1001-2.0-3000
TOTAL			31988		47		

NOTE: EXISTING LIGHT POLES TO BE REMOVED THAT ARE IN CONFLICT WITH PROPOSED HAIL NETS



CORPORATE HEADQUARTERS 8505-A CHANCELLOR ROW DALLAS, TX, 75247 800-966-5005

CERTIFICATIONS

IAS CERTIFICATION No FA-428 CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA) 355

AUTONATION INC.

PROJECT NAME

CDJR N.RICHLAND HILLS

NORTH RICHLAND H LLS TX

PROJECT NUMBER.

1001

STRUCTURE TYPE **HERITAGE CANTILEVERS &** DIAMOND PROTECTORS

VARIOUS

SCALE ENGINEERING

DRAWING IZE D JO 오 芳 05/08/18 05/08/18 05/08/18

Design By	SA
Approved By	JO
DRAWING DES	CRIPTION
SI	TE PLAN

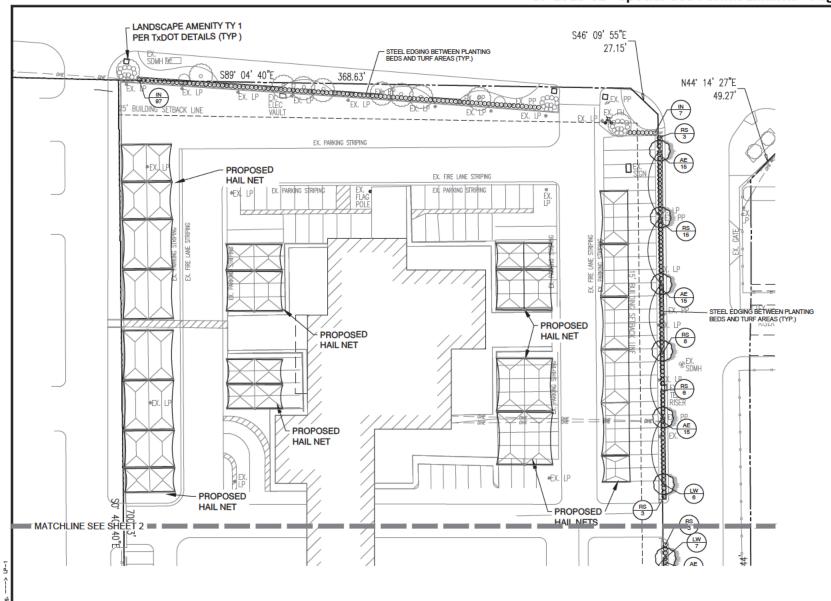
DWG.

62998-1.6

PAGE 4000 REV. NC

SCALE 1:40 (ENGINEERING) CASE SUP 2018-02

SITE PLAN



ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANIELS (OR EQUIAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANIELS PER MANIFACTURER'S RECOMMENDATIONS. LINDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

MULCHES

ATER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 4" THICK LAYER OF TRAKE RED ROCK #1" GRAVIE, MULCH TOPDRESSING, AS AVAILABLE FROM FULLER IS LANDSCAPE SUPPLY, CUSSETA, ALABAMA, (888) 749-2880 (OR EQUAL), OVER LANDSCAPE FABRIC IN ALL PLANTING AREAS. CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ASSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED.

LANDSCAPE CALCULATIONS CDJR

TOTAL SITE AREA LANDSCAPE AREA REQUIRED LANDSCAPE AREA PROVIDED LANDSCAPE SETBACK 15' LANDSCAPE SETBACK REQUIRED ADJACENT TO ROW

NE LOOP 820 RODGER LINE RD BOOTH CALLAWAY RD

REQUIRED TREES IN SETBACK
NE LOOP 820 387 FEET / 50 7.74 8 TREES REQUIRED RODGER LINE RD 388 FEET / 50 7.76 8 TREES REQUIRED BOOTH CALLAWAY RD 636 FEET / 50 12.7 13 TREES REQUIRED

REQUIRED SHRUBS IN SETBACK
NE LOOP 820 387 FEET / 50 x 10 77 SHRUBS REQUIRED

PARKING LOT SCREENING PARKING LOTS SHALL BE SCREENED WITH EVERGREEN SHRUBS PLACED AT 3 FEET O.C.

ONE LARGE TREE PER 20 SPACES REQUIRED 150 SPACES / 20 7.5 8 LARGE TREES

BOOTH CALLAWAY RD

LANDSCAPE ENTRANCES SHALL BE PLANTED WITH SMALL SHRUBS NE LOOP 820 RODGER LINE RD

PARKING LOTS SHALL BE AT LEAST 5% LANDSCAPED 222,581 SF x .05 11,129 SF LANDSCAPING REQUIRED

38.653 SE (15% OF SITE AREA) 7.704 SF (2.9% OF SITE AREA)

17'-1' SETBACK PROVIDED

0' SETBACK PROVIDED 8 TREES PROVIDED

138 SHRUBS PROVIDED 0 SHRUBS PROVIDED 179 SHRUBS PROVIDED

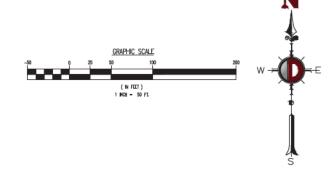
0 TREES PROVIDED 13 TREES PROVIDED

PROVIDED NOT PROVIDED PROVIDED

NOT PROVIDED O TREES PROVIDED

PROVIDED NOT PROVIDED

2,744 SF PROVIDED



PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME / COMMON NAME	CONT	CAL	HEIGHT		QTY
(a)	LW	Lagerstroemia indica 'Watermelon Red' / Watermelon Red Crape Myrtle Multi trunk - 3-5 canes, 2" caliper overall.	30 gal	2°Cal	8'-10		13
SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	SIZE			SPACING	QTY
\odot	AE	Abelia x grandiflora 'Edward Goucher' / Glossy Abelia	3 gal			36" o.c.	95
(-)	IN	llex vomitoria 'Nana' / Dwarf Yaupon	3 gal			36" o.c.	104
0	RS	Rhaphiolepis ind ca 'Snow White' / Snow White Indian Hawthorn	5 gal			36" o.c.	82

GENERAL LANDSCAPE NOTES

- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).

 BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIEY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN 14-0.1 OF FINISH GRADE. THE LANDSCAPE CONTRACTOR SHALL VERIEY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN 14-0.1 OF FINISH GRADE. THE LANDSCAPE CONTRACTOR SHALL NOTED THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN 14-0.1 OF FINISH GRADE. THE LANDSCAPE CONTRACTOR SHALL CONSTRUCT TOR SHALL DESPENSIVE PROPERTY.

 HE LANDSCAPE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMIN SLOPE SPECIFIED IN THE REPORT, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GOTECHNICAL REPORT. THE SHOTES, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL INSURE THAT THE GRADE IN SOO AREAS SHALL BE 1" BELOW FINISH GRADE BEFORE INSTALLING SOIL AMENDMENTS, AND 2" BELOW FINISH GRADE IN SHRUB AREAS BEFORE INSTALLING SOIL AMENDMENTS, MULCH COVER WITHIN 16" OF CONCRETE WALKS AND CURBS SHALL NOT PROTIFUCE ABOVE AREAS BEFORE INSTALLING SOIL AMENDMENTS, MULCH COVER WITHIN 16" OF CONCRETE WALKS AND CURBS. MULCH COVER WITHIN 16" OF WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.

 INSTALL 5 OLUNCE, WOVER, NEEDLE-PUNCHED POLYPOPPY-LENE FABRIC UNDER ALL MULCHED AREAS AND INDIVIDUAL TREE RINGS. INSTALL 3" THICK LAYER OF TRARE RED ROCK \$1" GRAVEL MULCH TOPDRESSING, AS AVAILABLE FROM FULLER 5 LANDSCAPE SUPPLY, CUSSETS, ALABAMA, (88) 740–280, IN ALL PLANTING BEDS.

 INSTALL 14G, GREEN STEEL EDGING BETWEEN ALL PLANTING BEDS.

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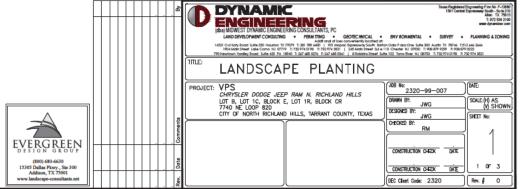
- THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.

 NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE DESIGNER IN WRITING (VIA PROPER CHANNELS).

 PLANTS MAY BE INSPECTED AND APPROVED OR REJECTED ON THE JOSSITE BY THE OWNER OR OWNER'S REPRESENTATIVE. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 80 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE). PROPER PRUNING, RESTAKING OF TREES, RESETTING OP PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESSEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE RIRIGATION SYSTEM DUE TO A BATTS AND A PROPER OF THE MAINTENANCE OF A LIST MATTHINGS. THE LIRIGATION SYSTEM OUR TO FAULTY PARTS ANDIOR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE
- SHOULD SECTED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM. THE LANDSCAPE CONTRACTOR SHAL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL STAND OF GRASS AT NO ADDITIONAL COST TO THE
- TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD ALL OF THE FOLLOWING CONDITIONS MUST OCCUR ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE FENDO, ALL OF THE FOLLOW THE OF THE MAINTENANCE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE OF SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL
- ACCEPTANCE.
 ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
- SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED

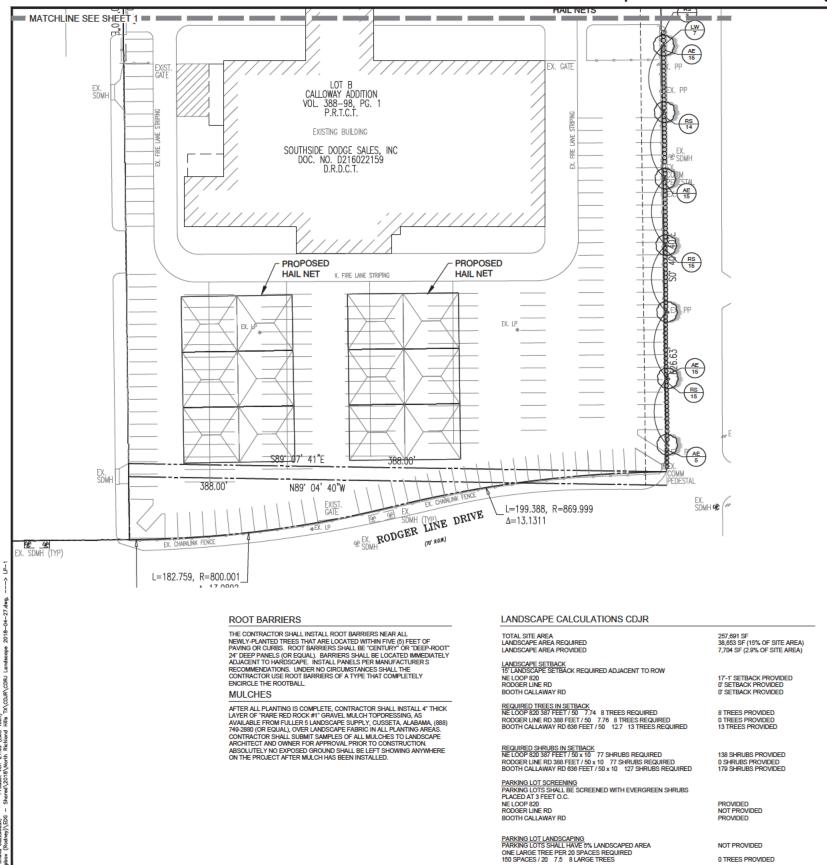
 15. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

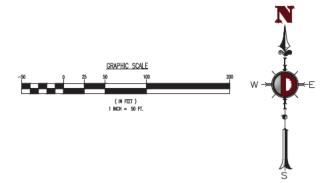












PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME / COMMON NAME	CONT	CAL	HEIGHT		QTY
(A)	LW	Lagerstroemia indica 'Watermelon Red' / Watermelon Red Crape Myrtle Multi trunk - 3-5 canes, 2" caliper overall.	30 gal	2°Cal	8'-10'		13
SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	SIZE			SPACING	QTY
\odot	AE	Abelia x grandiflora 'Edward Goucher' / Glossy Abelia	3 gal			36" o.c.	95
(-)	IN	llex vomitoria 'Nana' / Dwarf Yaupon	3 gal			36" o.c.	104
0	RS	Rhaphiolepis indica 'Snow White' / Snow White Indian Hawthorn	5 gal			36" o.c.	82

GENERAL LANDSCAPE NOTES

- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN). BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN #-0.1 OF FINISH GRADE. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
- EXIST. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURE AREA AND PLANTING BED PREPARATION.
 THE LANDSCAPE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN PINISH GRADES AS SHOWN ON BADING PLANS, AND CONSTRUCT
 AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE
 DRAINAGE AWAY FROM STRUCTURES AT THE INMINIMUM SLOPE SPECIFIED IN THE REPORT, AND AREAS OF POTENTIAL PONDING SHALL
 BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL. SHOULD ANY CONFLICTS
 ANDIOR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES, AND ACTUAL CONDITIONS,
 THE CONTRACTOR SHALL IMMEDIATELY BRINGS SUCH HEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND OWNER.
 CONTRACTOR SHALL ENSURE THAT THE GRADE IN SHOULD AREAS BEFORE INSTALLING SOIL.
 AMENDMENTS, AND 2 BELOW FINISH GRADE IN SHOULD AREAS BEFORE INSTALLING SOIL AMENDMENTS, AND 2 GRADE WHISH GRADE IN SHOULD AREAS BEFORE INSTALLING SOIL
 AMENDMENTS, AND 2 CIEDES SHALL NOT PROTRIDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
 SOURCE, WOVEN, NEEDLE-PUNCHED POLYPROPYLENE FABRIC UNDER ALL MULCHED AREAS AND INDIVIDUAL TREE RINGS.
 INSTALL 5 CHINCE, WOVEN, NEEDLE-PUNCHED POLYPROPYLENE FABRIC UNDER ALL MULCHED AREAS AND INDIVIDUAL TREE RINGS.
 INSTALL 5 CHINCE, WOVEN, NEEDLE-PUNCHED POLYPROPYLENE FABRIC UNDER ALL MULCHED AREAS AND INDIVIDUAL TREE RINGS.
 INSTALL 5 CHINCE, WOVEN, NEEDLE-PUNCHED POLYPROPYLENE FABRIC UNDER SING, AS AVAILABLE FROM FULLER 5 LANDSCAPE SUPPLY,
 CUSSETS, ALABAMMA, (88) 749-2880, IN ALL PLANTING BEDS.

- CUSSETA, ALABAMA, (888) 749-2880, IN ALL PLANTING BEDS.
 INSTALL 14G, GREEN STEEL EDGING BETWEEN ALL PLANTING BEDS AND TURF AREAS, AND BETWEEN GROUNDCOVERS AND OTHER
- PLANTS (WHERE INDICATED ON THE PLAN). HYDROMULCH ALL DISTURBED AREAS OUTSIDE OF PROPERTY LIMITS (UNLESS SHOWN AS SOD).
- HYDROMULCH ALL DISTURBED AREAS OUTSIDE OF PROPERTY LIMITS (UNLESS SHOWN AS SOD).

 ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E. MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).

 THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLANT FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PEPEFEDINCE.

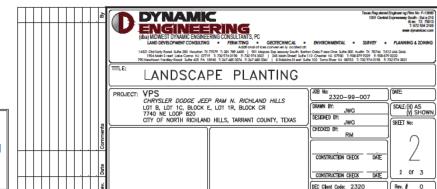
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 NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE
 CONTRACTOR SHALL NOTIFY THE LANDSCAPE DESIGNER IN WRITING (VIA PROPER CHANNELS).
 PLANTS MAY BE INSPECTED AND APPROVED OR REJECTED ON THE JOBSITE BY THE OWNER OR OWNER'S REPRESENTATIVE.
 THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 80
 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY
 SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE). PROPER PRUNING, RESTAKING OF TREES, RESETTING OF PLANTS
 THAT HAME SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESEDENING AREAS WHICH HAVE NOT GERMINATED WELL,
 TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE
 TO FAULT YEARTS ANDION WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR
 SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE
 WATER CONSERVATION.
 SHOULD SEEDED ANDIOR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR
 SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL STAND OF GRASS AT NO ADDITIONAL COST TO THE
- OWNER.
 TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR
 A. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS
 NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL
- NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.

 B. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
 C. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH, BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESOUDED OR RESECUED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.

 15. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.







0 TREES PROVIDED

PROVIDED NOT PROVIDED

2,744 SF PROVIDED

LANDSCAPE ENTRANCES SHALL BE PLANTED WITH SMALL SHRUBS NE LOOP 820 RODGER LINE RD

PARKING LOTS SHALL BE AT LEAST 5% LANDSCAPED 222,581 SF x .05 11,129 SF LANDSCAPING REQUIRED



PLANTING SPECIFICATIONS

- OUALIFICATIONS OF LANDSCAPE CONTRACTOR

 1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM
 SPECIALIZED IN LANDSCAPE PLANTING.

 2. A LIST OF SUCCESSFULLY COMPLECTED OF THIS TYPE, SIZE AND NATURE MAY BE
 LIST OF SUCCESSFULLY COMPLECTED OF THIS TYPE, SIZE AND NATURE MAY BE
 1. THE LANDSCAPE CONTRACTOR SHALL HOLD AND AUX DURINGSERY AND FLORAL CERTIF CATE ISSUED BY
 THE TEXAS DEPARTMENT OF AGR CULTURE, AS WELL AS OPERATE UNDER A COMMERCIAL PESTICIO
 APPLICATION LICENSES ISSUED BY SITHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS
 STRUCTURAL PEST CONTROL BOARD.
- COPE OF WIRE. THE I LIVINIAL BUMAL.

 WIREN COVERED BY THESE SECTIONS INCLIDES THE FLEWISHING AND PAYMENT OF ALL IMITERIALS, LABOR, GERMICES, EQUI MERNI, LICENSES, TAMES AND ANY OTHER TREMS THAT ARE NECESSARY FOR THE PERCENTIAL SHEALTH AND COMPLETION OF ALL DIOCK, PSECRED HEREN AND OF SHOWN ALL WORK SHEALTH SECTIONS OF A SHOWN ALL WORK SHEALS ELVINS, CODES AND FREGULATIONS REQUIRED IN ACCORDANCE WITH ALL APPLICABLE LIVINS, CODES AND REGISLATIONS REQUIRED BY AND STREETS. AT ALL SHOW LOOK, AUTHORITE SIN SUPPLY, THE AND EXCENTIBLE OF ANY MORE SHOWN LIVING THE SHOWN ALL SHOP THE ADDREST OWN OFFICE OWN THAT AND A SHOP THE SHOWN LIVING THE SHOWN LIVING THE SHOWN AND FRENCH SHOWN LIVING THE SHOWN LIVING THE SHOWN AND FRENCH SHOWN LIVING THE ADDREST OWN OTHER SHOWN LIVING THE ADDREST OWN STREETS.

PRODUCTS

- A ALL MANUFACTURED PRODUCTS SHALL BE NEW.

 8. CONTAINER AND BALEDAND-SUR-APPED FLAMS:

 5. ENAMER AND SURFACE APPELLAND VIOLOGIUS STOCK PREE OF D SEASE, INSECTS, EOSS, LARINE, AND DEFECTS

 SUCH AS NOTTS, SUN SCALD, INJURIES, ARRASIONS, AND DISPOJUREMENT, ALL FLAMS WITHIN A

 SPECIES SHALL HAVE SIMAN SUR-AND SHALL SEC OF THE PROJECT SITE, AND WITH SIMAN AS

 CLIMATIC CONDITIONS.

 2. ROOT SYSTEMS SHALL BE FLEATHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE

 PHARMED ROOTS.
- HAMED ROOTS.

 AMP FLAM TEERLED NUNCOEPTIALE BY THE LONDSCAPE AND THE TOP ON OUTDING THE PLAN TO LIKE IN MEDIATE. IN THE MEDIATE IN THE MEDICATE ADDITION. THE MEDICATE ADDITION THE MEDIATE IN THE MEDICATE ADDITION THE MEDICATE IN THE MEDICATE ADDITION THE MEDICATE IN THE

- 6. MLITHTRINK TREES SHALL BE MEASURED BY THER OLIERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BUSINESS SHAND IN THIS ELEMENT SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLAVE HIS SEEN COMPLETELY COMPRED, SHALL BE RESCRED. SOO PROVIDE WILL-ROOTED SOOL OF THE VARIETY NOTED ON THE PLANS. SOOI SHALL BE CUT FROM HEALTHY, MITINES TURE WITH SOIL THIS OWNESS OF SHY TO 1. EACH PALLET OF SOOI SHALL BE SEED PROVIDE BLAD OF SPECIES AND VARIETIES AS NOTED ON THE TAMES, WITH WAXMAM PERCENTAGES OF FLIGHT, GERMANTON, AND INMIMILE PROCENTAGE OF WILED SEED AS INCIDENTS ON THE ACCOUNTED ON THE TOP THE SHY THE SHY THE PARKS AND THE SHY THE PARKS AND THE SHY THE SHY THE PARKS AND THE SHY THE PARKS AND THE PARKS AND THE SHY THE PARKS AND THE PARKS AND THE SHY THE PARKS AND THE SHY THE PARKS AND THE PARKS AND THE SHY THE PARKS AND THE PAR
- SEED. SAMON TO CLAY LOAM TO POOL, FREE OF STONES LARGER THAN IS, NOT, FOREIGN MATTER, TOPICS, ROTH, MOD SEEDS.

 COMPOST VIELL-COMPOSTED, STABLE, AND MEED-FREE ORGANIC MATTER, 6H RAVIGE OF S.S.TO IS MOISTLESS CONTINUES TO SES PROFILE OF WEIGHT OF PRESENT ASSISTS PROFILED IN PROCESS OF NOT SEVEN SOLUBLE SALT CONTINUES TO SE PROFILE OF MATTER AND THE CONTINUES OF THE SOLUBLE SALT CONTINUES OF THE SOLUBLE SALT CONTINUES SHALL IS.

 AND FREE OF SUSSETANCES TOOK OF D-MANTIONS. ON MANABLE OR ANALY -856ED PROCLOTES SHALL IS.
- NUTHENTS IN PROPORTIONS, AND AND RELAGE RATES RECOMERCIDED IN A SOL. REPORT FROM A OURLIPED DAY. LETSTEM AGENCY (SEE BELOW).

 TO LONG STATE AND STATE AND STATE AS A TO LONG STATE AND STATE AS A TO LONG STATE AND STATE AS A THE STATE AND STATE AND STATE AS A MEED FARRO SOURCE, WOMEN RECOLLENOED FARRIC, SUCH AS DEMITT FROS LANDSCAPE FARRIC (OR APPROVED SOUNL).

 THE STANDAY COUNTY OF THE STATE AND STATE AS A THE STATE AND LAND GREEN METAL THOSE STATE AND THE STATE AND THIS TED, QUISTIC AND STATE AS A OUT AND TE WIRE ASTAM AS I, CALVANCED STEEL WIRE, 2-STRAND, TWISTED, QUISTIC STATE AND THE STATE AS A DIMENSION THE STATE AS THOSE STATE AND THOSE AS A GREEN ACCEPTABLE WANTAGTURES INCLUDE COLLECT OR APPROVED SOUNLY FROM THE AS GREEN ACCEPTABLE WANTAGTURES INCLUDE COLLECT OR APPROVED SOUNLY FROM THE AS GREEN ACCEPTABLE WANTAGTURES INCLUDE COLLECT OR APPROVED SOUNLY FROM THE ASSESSMENT AS SHALL BE APPLIED PER THE MANUFACTURES INCLUDE COLLECT OR APPROVED SOUNLY FREGERISCS AND FROM AND AND AND AND AND AND A SHALL BE APPLIED PER THE MANUFACTURES I LABELED RATES.

- A. SOL PREPARATION

 1. BEFORE STATING WORK, THE LINDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL
 LINDSCAPE AREAS ARE WITHIN ALT OF FINSH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER
 MIMEDIATELY SHOULD ANY DISCREPANCIES EXIST.

 2. SOLI TESTING.

 - ADDIOPTION RATIO (BAR) NO BORON CONTENT. EACH SAMPLE DUSING ILLULESS THAN ONE GUART OF SOUL.

 CONTRACTOR SHALL ALD SIBMIT THE PROJECTS FLATT LIST TO THE LABORATORY ALONG WITH
 THE SOL SAMPLE SCOULDED BY THE LABORATORY SHALL CONTAINED SOUR SHALL SOUL ON THE SOUL CONTRACTOR FOR THE
 FOLLOWING (AS APPROPERATE) GENERAL SOL PREPARATION AND BROWLE MEET, PREPARAT
 FORTUZES PREVIATIONS, AND ANY OTHER SOL RELIEF DISSUES. THE REPORT SHALL ALD
 PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT FERSION AND FAIL CHICAGO

 FROM THE SOL SHALL AND SHALL SHAL

- FERTILIZER APETULISER PROJECTIVE UTIENT SOUR RELITED ISSUES. I'PE REPUTU STIPLL JOURN PROJECT APETULISER PROJECTIVE UTIENT SOUR SERVICE APETULISER PROJECTIVE ON THE SOUR SERVICE SHALL SEE SUBMITTED TO THE OWNER WITH THE REPORT.

 FOR BEDDING PROVIDED SOUR, "THE SOUR SERVICE SHALL SERVICE OF THE FOLLOW NO a. THAT THE SOUR SERVICE THE FOLLOWING MEKNAMENTS WITO THE TOP 8" OF SOUR SYMEANS OF THE FOLLOWING MEKNAMENTS WITO THE TOP 8" OF SOUR SYMEANS OF THE FOLLOWING MEKNAMENTS WITO THE TOP 8" OF SOUR SYMEANS OF THE FOLLOWING MEKNAMENTS WITO THE TOP 8" OF SOUR SYMEANS OF THE SOUR SERVICE SERVICE

- GENERAL FLANT NO.

 I. REMOVED MURRIERY TAKE AND STAYES FROM FLANTS.

 I. REMOVED MURRIERY TAKE AND STAYES FROM FLANTS.

 II. REMOVED TO BE FLANTED WITH DRIVMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MURRIERY TO BE FLANTED WITH DRIVMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MURRIERY BUTTON TREES.

 I. THENCH MO NEAR EDSTINIO TREES.

 A CONTRACTOR SHALL BOT DISTINIS TREES, AND SHALL DEPROSE ALL POSSIBLE ONES AND PRECAUTIONS TO ALLO BLANTY TO THE OWNO, THE MURRIERY BOT SHALL DO SHALL DEPROSE ALL POSSIBLE ONES AND PROCESSING THE OWNO THE MURRIERY TO FOR IS DEPRIED TO FOR EVERY TO FETTAL DRIVEN THE AND THE MURRIERY TO FINANCIAL MURRIERY TO FRANCIA.

 FOR EVERY TO FINANCIAL DIMETER-AT-BREAST-HEXIST (4.5 ABOVE THE AVERAGE GRADE AT THE TRANCIA.
- FOR EVERY I'C'S TRANS OME: IENA'S INESS I TECHNI IS JOINTS, IN.

 TRIANG.

 ALL ENWINDOWN INTENT THE CREWILL SE PREPROPIED UILING INNO TOOLS. NO MACKINE

 ALL ENWINDOWN INTENDED HE OF ANY KID SHALL SE ALLONGO WITHIN THE CRE.

 ALTER ALLONGO WITH OF PRET ON AND TREE BOOTS I THEY AND LARGER IN DOMESTER. MERRE

 TIME ROOTS I-L'S AND LARGER IN DOMESTER ARE ENCOUNTERED IN THE FIELD. TUNNEL UNGER

 SUCH ROOTS. WHAP EVENOSED FORTOS WITH SE EVENT. AUVERS OF SIBLEY AND KEEP MOST.

 CLOSE ALL TRENOHES WITHIN THE CONDEY DIRP LINES WITHIN SI HOURS.

 ALL SEVERE ORDS SHALL SE HAND PRUNED WITH SHAPP TOOLS AND ALLONGO TO A RORY.

 DO NOT USE MYS CORT OF SEALERS OR WOUND PAINTS.

- d. ALL SEVERED RODOTS SHALL SE HAND PRIVACE WITH SHAPP TOOLS AND ALLONGO TO A ROPK.

 DO THIS PAY SHAPP OF SEALERS OF WOOD PAYINTS.

 THE FLANTING HALES SHALL SE ENDANIZED TO MIN MAM MIGHT OF TWO TIMES THE WIDTH OF THE ROOTSHAL AND TO A DEFINITIONAL. TO THE CENTER OF THE ROOTSHAL HES TWO TO POUR INCHES.

 SOMEY THE SIDES AND BOTTOM OF THE FLANTING HOLE RIGHT TO THE FLACEMENT OF THE TREE.

 SOMEY THE SIDES AND BOTTOM OF THE FLANTING HOLE RIGHT TO THE FLANCEMENT OF THE TREE.

 SOMEY THE SIDES AND BOTTOM OF THE FLANTING HOLE RIGHT TO THE FLANCEMENT OF THE TREE.

 SOMEY THE SIDES AND BOTTOM OF THE FLANTING HOLE RIGHT TO THE FLANTING HOLE RIGHT TO THE FLANTING HOLE RIGHT TO THE SIDES AND BOTTOM OF THE ROOTSHALD OF THE SIDES AND BOTTOM OF THE SIDES AND SIDES A

- ODDING
 SOURCE TY TO BE AS SPECIFIED ON THE LANGE APEA
 SOURCE TY TO BE AS SPECIFIED ON THE LANGE APEA
 LAY SOO WITHOUT AN HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN
 LAY THE SOOT TO FORMA SOLD MASS WITH TIDENTLY HITTED JOINTS. BUTT ENDS AND S DES OF SOO
 STRIPS DON'T OVERLAP. STRIPS TO OPERE JOIN THIS NA JOINCOM TOURSES.
 ROLL THE SOOT TO ENSURE GOOD CONTACT OF THE SOOTS ROOT SYSTEM WITH THE SOLL UNDERNEATH.
 WITER THE SOOT DHOROUGH. WITH A FE SERVE MIRRORITELY AFTER PLANTING TO OSTAN AT
 LEAST SIX INCHES OF PENETRATION INTO THE SOLL BELOW THE SOO.

- LEAST BUX INDOES OF PREFITATION NOTO THE SOUL BELOW THE S
 ORMALLICHING CONTROL PROCESS TO SHAPE BE AS FOLLOWS
 TURN'S HYDROUGH MIX (PER TOUR SIS SHAPE BE AS FOLLOWS
 25 BL CALLUDGE FERRI MAD ASED
 26 MANULLED BERNADA SEED
 27 MANULLED BERNADA SEED
 28 MANULLED BERNADA SEED
 39 MANULLED BERNADA SEED
 30 SOUL SEED SHAPE SOULBLE FERTILIZER
 SUMMER MU CYPRIL 1 SEPTEMBER 30)
 50 CELLUDGE FERRI MULCH
 28 MALED BERNADA SEED SEPTEMBER 30
 50 CELLUDGE FERRI MULCH
 28 MALED BERNADA SEED SEPTEMBER SEED HYDROMALCH MIX (PER TIDD SF) SHALL BE AS FOLLOWS
 SEED HYDROMALCH MIX (PER TIDD SF) SHALL BE AS FOLLOWS
 6 CHERRY.
 - GENERAL SD# CELLULOSE FIBER MULCH 15# 15-15-15 WATER SOLUBLE FERTILIZER SEED RATE PER LEGEND
- NO UP.

 DURING LANDSCAPE PREPARATION AND PLANTIND, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS
 IN A NEAT, CROERLY CONDITION.

 DISPOSED LEGALY OF ALL EXCANATED MATERIALS OFF THE PROJECT SITE.

- DEFINISHED LANDISCASE PREPRATION AND PLANTING, KEEP ALL PAREMENT CLEM AND ALL WORK AREAS IN AL ART, GREEKY CONDITION.

 DISPOSED LEGALLY OF ALL EXCHANGED MYTERIALS OF THE PROJECT SITE.

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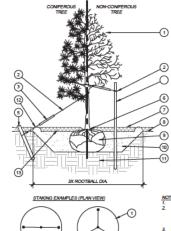
 WHICH THE AND ALL EXCHANGED MYTERIALS OF THE PROJECT SITE.

 WHICH THE ROUGEST MY EMPORT THE LANDISCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEMN, THESE OF LESHIS AND TRAIN. AND SUTTABLE FOR USE AS INTERMED. THE LANDISCAPE CONTRACTOR SHALL THE RECORD THAN THE MORE THAN THE

- ROLLED-TOP STEEL EDGING PER PLANS. (2) TAPERED STEEL STAKES.
- (3) MULCH, TYPE AND D PTH PER PLANS. ○ FINISH GRADE.
- NOTES
 1) INSTALL EDG NG SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED.
 2) BOTTOM OF EDGING SHALL BE BURIED A MINIMUM OF "BELOW FINISH

 ORDERS"
- GRADE.

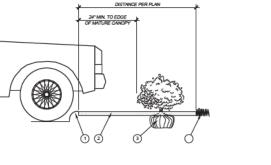
 3) TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDG NG. STEEL EDGING



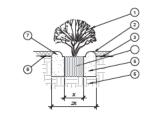


TREE PLANTING

- 1) TREE CANOPY.
- CINCH-TIES (34" BOX/2" CAL. TREES AND SMALLER) OR 12 GAUGE GALVANIZED WIRE WITH NYLON TREE STRAPS AT TREE AND STAKE (35" BOX/2.5" CAL. TREES AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.
- (3) 24" X 34" P.V.C. MARKERS OVER WIRES.
- GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL.
- 6 TRUNK FLARE. 7) MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITH N 6" OF TRUNK.
- 8) FINISH GRADE.
- (9) ROOTBALL BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
- (1) UNDISTURBED NATIVE SOIL
- (12) 4" HIGH EARTHEN WATER NG BASIN. (13) FINISH GRADE.



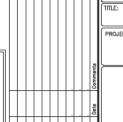
- (2) MULCHLAYER (3) PLANT
- TURF (WHERE SHOWN ON PLAN).
- PLANTING AT PARKING AREA



- 1 SHRUB, PERENNIAL, OR ORNAMENTAL GRASS MULCH, TYPE AND DEPTH PER PLANS. PLACE NO MORE THAN 1" OF MULCH WITHIN 6" OF PLANT CENTER.
- ROOT BALL
- BACKFILL AMEND AND FERT LIZE ONLY AS RECOMMENDED IN SOIL FERT LITY ANALYSIS.
- (6) UNDISTURBED NATIVE SOIL
- B WEED FABRIC UNDER MULCH.
- SHRUB AND PERENNIAL PLANTING



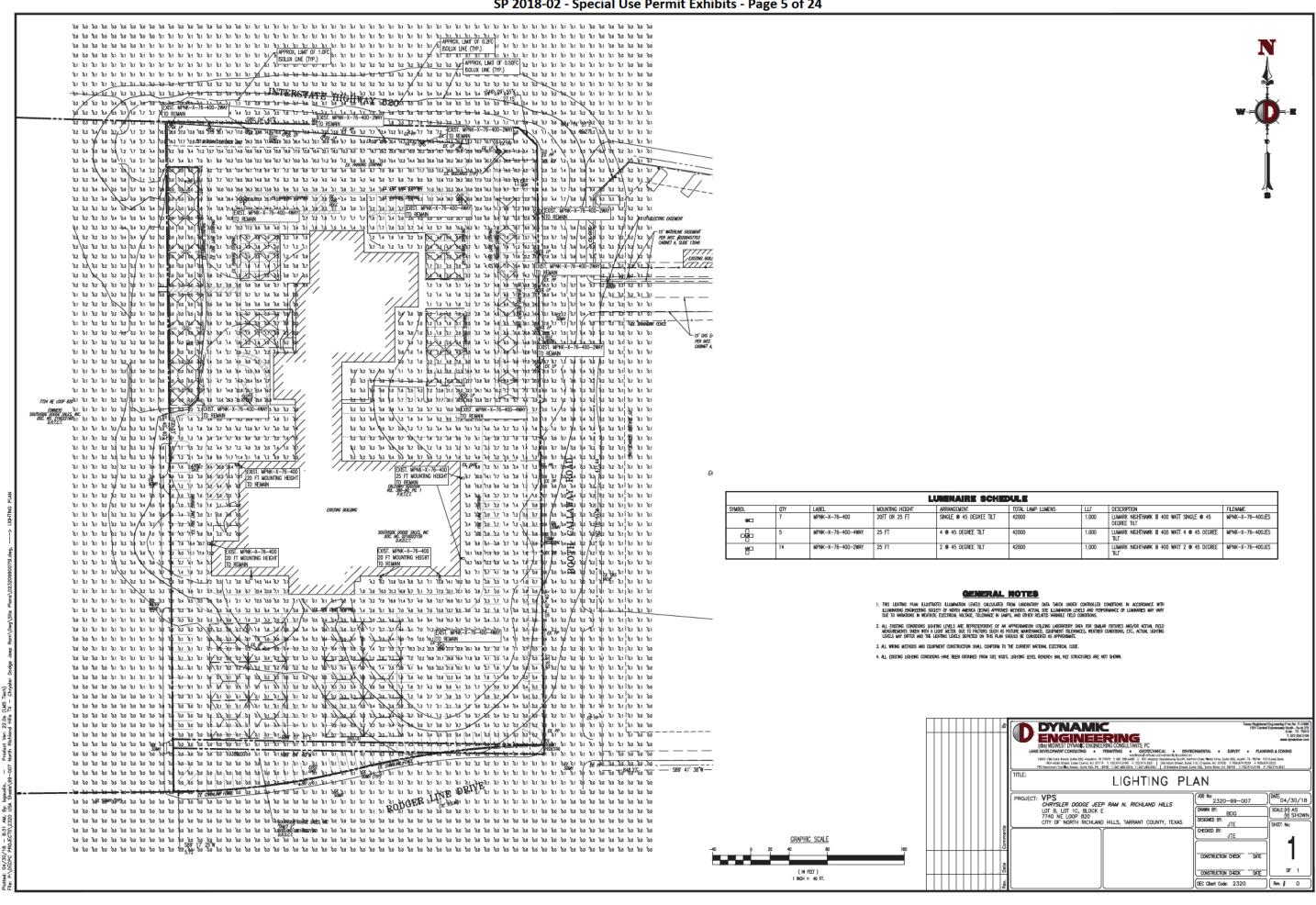




DYNAMIC

LONG INCIDENCE OF THE PRINCIPLE OF THE P LANDSCAPE DETAILS AND SPECS VPS CHRYSLER DODGE JEEP RAM N. RICHLAND HILLS UTI B, LUTI 1C, BLOCK E, LOT IR, BLOCK CR 7740 NE LOOP BO CITY OF NORTH RICHLAND HILLS, TARRANT COUNTY, TEXAS SCALE: (H) AS (V) SHOWN DESIGNED BY: CHECKED BY: CONSTRUCTION CHECK CONSTRUCTION CHECK DATE

DEC Client Code: 2320 Rev. # 0



Lumark

The Lumark Nighthawk III utilizes a soft-cornered aerodynamic design to provide excellent EPA ratings and an aesthetically pleasing appearance. Dark bronze polyester powder coat finish assures corrosion resistance and long-lasting aesthetics. U.L. listed and CSA certified for wet locations. The Nighthawk III uses an innovative die-cut optical design which delivers maximum beam control for storage areas, rail yards, loading docks and building perimeters.

Catalog #	Туре
Project	
Comments	Date
Prepared by	

SPECIFICATION FEATURES

without tools and maintain integrity of seal when closed. HOUSING: Aerodynamically designed die-cast aluminum housing has low EPA rating. DOOR: Die-cast aluminum with integral cast hinges for removal without tools. GASKET: Door gasket is foam-in-place silicone, providing maximum protection of interior components from the elements. flush draw-action latches offer Construction
LATCHES: Formed aluminum easy access to lamp compartment

ElectricalBALLAST: Ballast components are hard mounted to fixture housing for maximum heat dissipation and extended component and lamp life.

tempered glass. Lens is mounted flush with door surface to reduce wind drag and prevent dirt or moisture from accumulating. REFLECTOR: Computer designed die-cut reflector system delivers superior beam control and Optical
LENS: Heat- and impact-resistant efficiency.

Slipfitter: Die-cast aluminum integral slipfitter mounts on nominal 2 3/8" or 3" O.D. tenons. A degree-marked quadrant is cast in for easy and accurate aiming. Yoke: Heavy-duty steel yoke provides flexibility in mounting from a variety of surfaces. Trunnion: Dieformed steel trunnion is easily adapted to many areas and allows easy fixture aiming.

Efficiency Standards Notice Select luminaires are manufactured to USA and California efficiency regulations.



NIGHTHAWK III Z

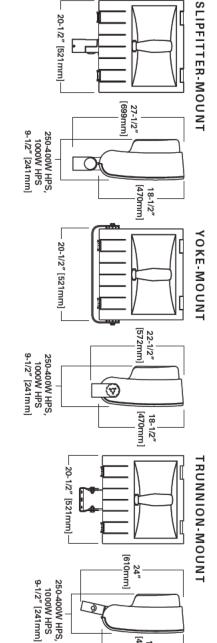
Pulse Start Metal Halide 250 - 1000W

High Pressure Sodium 250 - 1000W

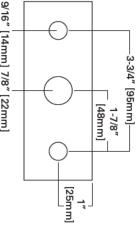
SLIPFITTER-, YOKE-, TRUNNION-MOUNT FLOODLIGHT

DIMENSIONS

SP 2018-02 - Special Use Permit Exhibits - Page 6 of 24



DRILLING PATTERN FOR YOKE- AND TRUNNION-MOUNT



9/16" [14mm] 7/8" [22mm] dia. hole (2) dia. hole

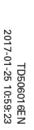
TECHNICAL DATA
U.L. Wet Location Listed
CSA Certified
EISA Compliant ®

EPA Effective Projected Area: 2.7

Approximate ive 59 lbs. (27 kgs.) SHIPPING DATA
Approximate Net Weight:









MPNK-X76-400 400-Watt MP 42,000-Lumen Clear Lamp

MPNK-X76-1000 1000-Watt MP 110,000-Lumen Clear Lamp

0

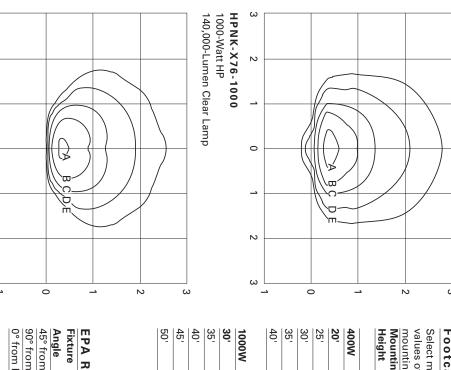
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2 _ 0

HPNK-X76-400 400-Watt HP 50,000-Lumen Clear Lamp

NK NIGHTHAWK III

Footcandle Table

Select mounting height and read across for footcandle values of each isofootcandle line. Distance in units of mounting height.

Mounting Footcandle Values for Height Isofootcandle Lines

A B C D E

	10.00	5.00	2.00	1.00	0.50
	6.40	3.20	1.28	0.64	0.32
	4.44	2.22	0.89	0.44	0.22
	3.27	1.63	0.65	0.33	0.16
	2.50	1.25	0.50	0.25	0.13
<					
	20.00	10.00	5.00	2.00	1.00
	14.69	7.35	3.67	1.47	0.73
	11.25	5.63	2.81	1.13	0.56
	8.89	4.44	2.22	0.89	0.44

7.20

3.60

1.80

0.72

Ratings:		
	Wind Direc	Wind Direction (sq. ft.)
	Front	Side
m Horizontal	2.7	1.2
m Horizontal	4.2	1.2
Horizontal	1	10

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	Wind Dire	Wind Direction (sq. ft.)
	Front	Side
ກ Horizontal	2.7	1.2
ກ Horizontal	4.2	1.2
Horizontal	1	1.2

SP 2018-02 - Special Use Permit Exhibits - Page 8 of 24

ORDERING INFORMATION

Sample Number: MPNK-S76-400-277
'

Sample Number. MFMN-3/0-400-2//V	` <				
Lamp Type ¹	Product Family	Mounting	Distribution	Lamp Wattage	Voltage ¹
MP=Pulse Start Metal Halide HP=High Pressure Sodium	NK =Nighthawk III	S=Slipfitter T=Trunnion Y=Yoke	76 =7H x 6V Beam Spread	MP 250=250W 400=400W 1000=1000W HP 250=250W 400=400W 1000=1000W	120V=120V 208V=208V 240V=240V 277V=277V 347V=347V 2 480V=480V MT=Multi-Tap, Wired 277V TT=Triple-Tap, Wired 347V 2
Options (Add as Suffix)	,		Finish	Accessories (Order Separately) ⁶	
F1=Single Fuse (120, 277 or 347V only) F2=Double Fuse (208, 240 or 480V only) Q=Quartz Restrike (Hot Strike Only) EM=Quartz Restrike with "Delay Relay" (Quartz lamp strikes at both hot and cold starts) ³ LL=Lamp Included ⁴ PER=NEMA Twistlock Photocontrol Receptacle PC=Button Type Photocontrol ⁵ T=Removable Quick-Disconnect Power Tray ³	only) only)) elay" (Quartz lamp strikes I Receptacle owerTray ³	at both hot and cold starts) ³	Bronze (Standard) BLK=Black GRY=Grey WHT=White	TVS-XX=Trunnion or Yoke Slipfitter for 2-3/8", 3", or 3-1/2" O.D.Tenon 7 VS/NK=Vandal Shield for 150 - 320W WG/NK=Wire Guard VS/NK/1000=Vandal Shield for 400 - 1000W Units OA/RA1016=Photoelectric Control, 105-285 Volt NEMA Type OA/RA1201=Photoelectric Control, 347V NEMA Type OA/RA1027=Photoelectric Control, 480V NEMA Type OA/RA1027=Photoelectric Control, 480V NEMA Type OA1028=Field Installed NEMA Twistlock Photocontrol Receptacle (Order Photocontrol Separately) TV/NK-XX=Top or Bottom Visor SV1/NK-XX=Double Side Visor SV/NK-XX=Double Side Visor OA/RA1013=Shorting Cap	8", 3", or 3-1/2" O.D.Tenon ⁷ V Units Volt NEMAType EMAType EMAType ctocontrol Receptacle
NOTES:					

STOCK SAMPLE NUMBER: (LAMP INCLUDED)

211000000000000000000000000000000000000				
amp Type	Product Family	Mounting	Lamp Wattage ²	Accessories
WP =Pulse Start Metal Halide HP =High Pressure Sodium	NK=Nighthawk III 1	S =Slipfitter Y =Yoke	40 =400W 1K =1000W	TYS=Trunnion or Yoke Slipfitter for 2-3/8", 3", or 3-1/2" O.D. Tenon





The four-foot SHARK s ava abe n 36W and 50W versons. This impact-resistant near LED washdown fixture is deal for car washes, tunnels, stairwe is and other hard-to-reach areas where relamping is difficult and costly.

Co or: Wh te

We ght: 13.3 bs

Prepared By:	Project:
Date:	Туре:

Driver Info		LED Info	
Type:	Constant Current	Watts:	50W
120V:	0.42A	Co or Temp:	5000K
208V:	0.24A	Co or Accuracy:	75 CRI
240V:	0.21A	L70 L fespan:	100000
277V:	0.18A	Lumens:	5161
Input Watts:	48W	Eff cacy:	107 LPW
Eff c ency:	N/A		

Technical Specifications

UL Listing:

Su tab e for wet ocat ons

DLC Listed:

DLC Member Ut tes.
DLC Product Code: PV941B8V Th s product s on the Des gn L ghts Consort um (DLC)
Qua fed Products L st and segbe for rebates from

SP 2018-02 - Special Use Permit Exhibits - Page 9 of 24

NEMA Rating:

4X, protected aga nst corros on

ESNA LM-79 & LM-80 Testing:

RAB LED um na res have been tested by an ndependent aboratory n accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" abe:

Electrical

C ass 2 Constant Current, 4kV, 100-277VAC, 50-60Hz

Dimming Driver:

Dr ver nc udes d mm ng contro wrng for 0-10V d mm ng systems. Requ res separate 0-10V DC d mm ng c rcu t. D ms as ow as 10%.

7.5% at 120V, 8.9% at 277V

Power Factor:

99.1% at 120V, 95.2% at 277V

Construction

IP Rating:

Ingress Protect on rat ng of IP66 for dust and water

Reflector/Tray:

Housing:

5VA mpact-res stant po ycarbonate. 1/2" open ngs for condu t and bush ng/cord entry. Po ycarbonate s affected by c ean ng agents or other qu ds conta n ng part a so vents such as ow mo ecu ar we ght a dehydes and ethers, ketones, esters, aromat c hydrocarbons and perch or nated hydrocarbons

Mounting:

ava ab e. Qu ck-mount, surface, stan ess stee spr ng c ps supp ed. 4 add t ona mount ng accessory k ts

Lens:

D ffuse po ycarbonate ens for ow g are and max mum protect on

EVAs cone foam

Gaskets:

Maximum Ambient Temperature:

Su tab eFor use n 40°C (104°F) amb ent temperatures

Cold Weather Starting:

M n mum start ng temperature s -40°C (-40°F)

Green Technology:

Mercury and UV free. RoHS comp ant components Po yester powder coat f n sh formu ated w thout the use of VOC or tox c heavy meta s.

Formu ated for h gh-durab ty and ong ast ng co or

LED Characteristics

LEDs:

Long- fe, h gh-eff c ency surface mount ng LEDs

100,000-hour LED fespan based on IES LM-80 resu ts and TM-21 ca cu at ons. Color Stability:

LED co or temperature s warrant ed to sh ft no more than 200K in CCT over a 5 year per od

Color Uniformity:

RAB's range of CCT (Corre ated Co or Temperature) fo ows the gu de nes of the Amer can Nat ona Standard for Spec f cat ons for the Chromat c ty of So d State L ght ng (SSL) Products, ANSI C78.377-2015.

Other

Warranty:

RAB warrants that our LED products w be free from defects n mater as and workmansh p for a per od of f ve (5) years from the date of de very to the end user, nc ud ng coverage of ght output, co or stab ty, dr ver performance and f xture f n sh.

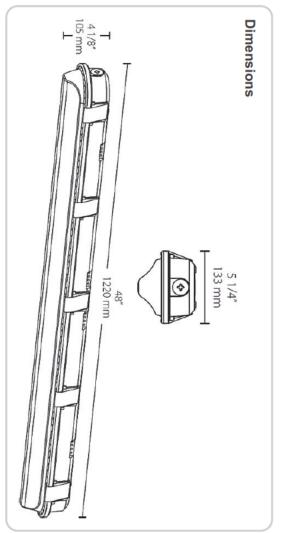
American Bureau of Shipping (ABS) :

sh pp ng vesse s on Mob e Offshore Q ng Un ts (MODU) and

Buy American Act Compliance:

RAB va ues USA manufactur ng! Upon request, RAB may be ab e to manufacture th s product to be comp ant w th the Buy Amer can Act (BAA). P ease contact customer serv ce to request a quote for the product to be made BAA comp ant.





Features

Impact-res stant near washdown

Idea for car washes, tunne s and starwe s

Mount ng opt ons: Cha n, junct on box, ang ed surface mount or vandares stant surface mount

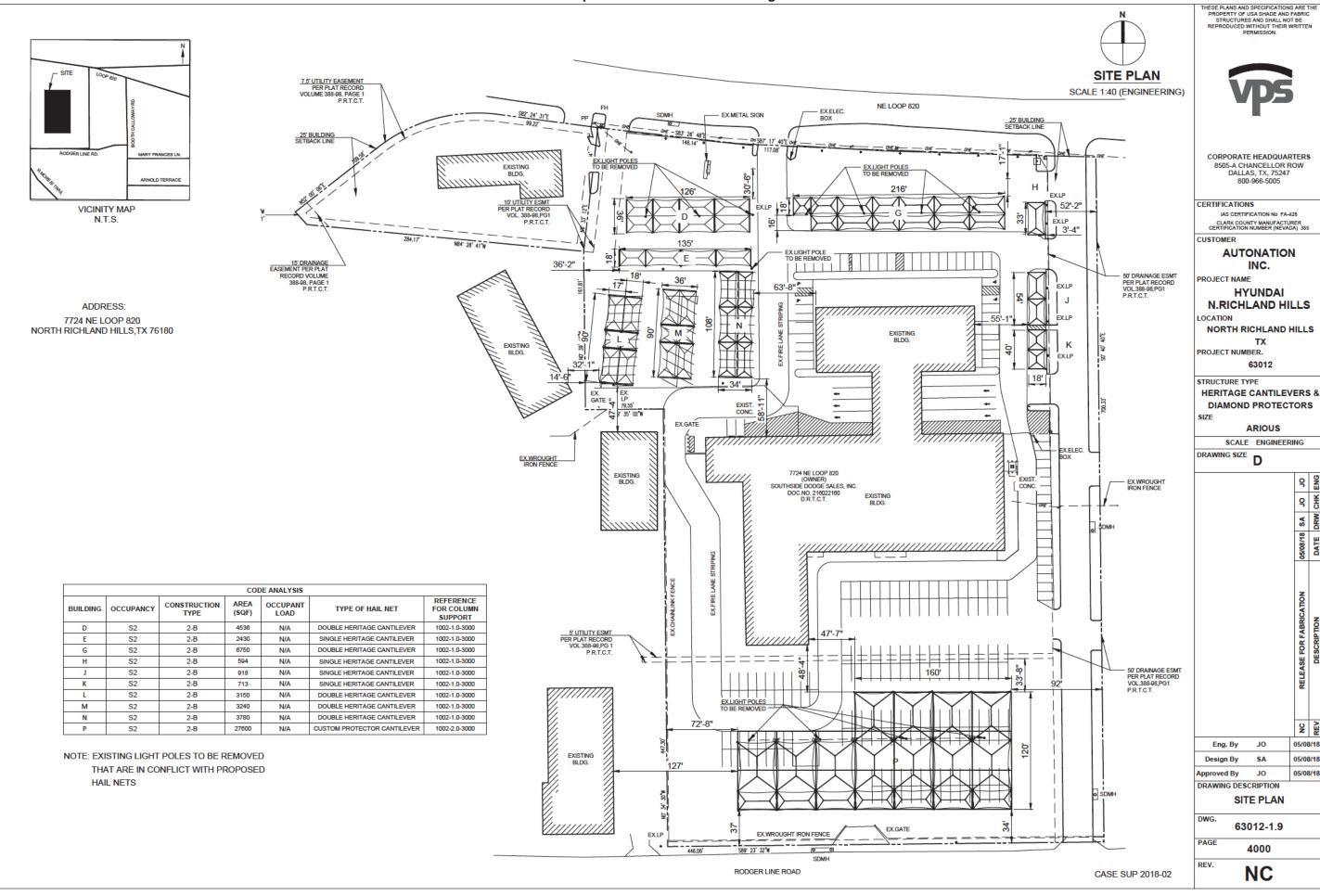
IP66 Rating protects against dust & water ingress

0-10V d mm ng

5-Year, no comprom se warranty

100,000-Hour LED fespan

SHARK	Length 4	50	Color lemp	₩ Inish	/D10	voltage
	4 = 4 ft	36 = 36W 50 = 50W	Blank = 5000K (Coo) Y = 3000K (Warm) YN = 3500K (Warm Neutra) N = 4000K (Neutra)	W = Wh te	D10 = D mmab e	Blank = 120-277V / 480 = 480V



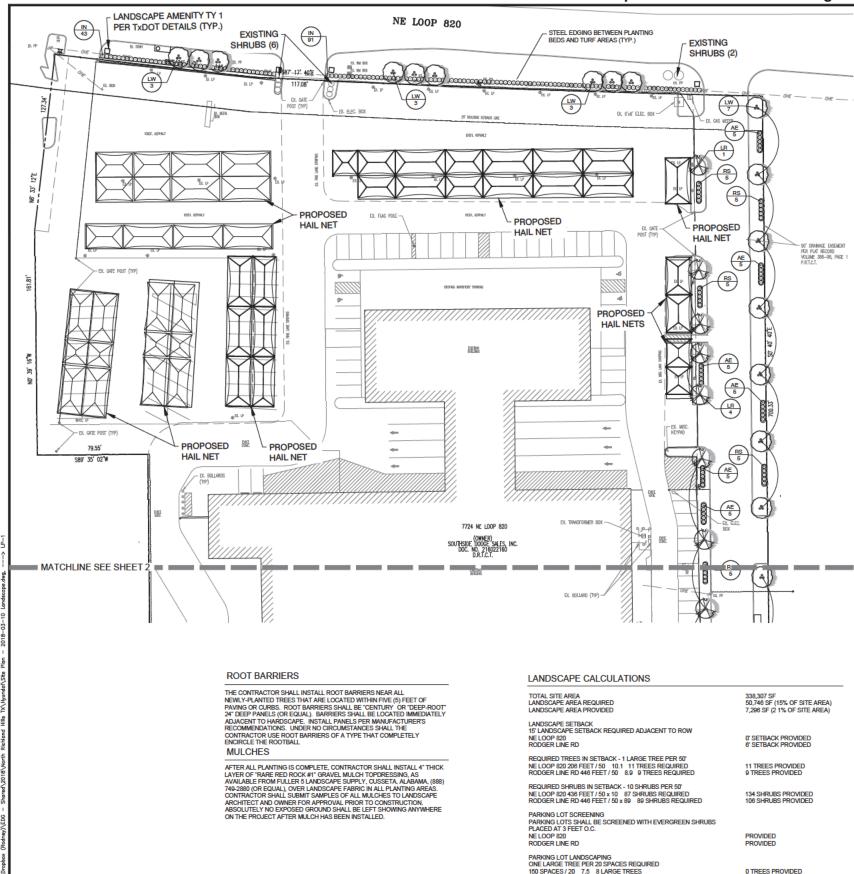
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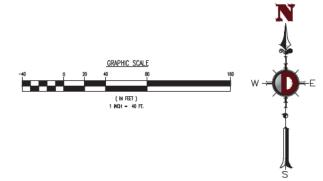
05/08/18

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PLANT SCHEDULE

	TREES	CODE	BOTANICAL NAME / COMMON NAME	CONT	CAL	HEIGHT		QTY
- Paris	(LW	Lagerstroemia ind ca 'Watermelon Red / Watermelon Red Crape My tle Mul i trunk - 3-5 canes, 2" caliper overall.	30 gal	2"Cal	8'-10'		24
	5	LR	Lagerstroemia x 'Tuscarora' / Red Crape Myrtle Mul i trunk - 3-5 canes, 2' caliper overall.	30 gal	2"Cal			15
	\otimes	UC	Ulmus crass folia / Cedar Elm	B&B	3°Cal	10'-12'		9
	SHRUBS	CODE	BOTANICAL NAME / COMMON NAME	SIZE			SPACING	QTY
	\odot	AE	Abelia x grandiflora 'Edward Goucher' / Glossy Abelia	3 gal			36" o.c.	166
	+	IN	llex vomitoria 'Nana' / Dwarf Yaupon	3 gal			36" o.c.	134
	0	RS	Rhaphiolepis indica 'Snow White' / Snow White Indian Hawthorn	5 gal			36" o.c.	55

GENERAL LANDSCAPE NOTES

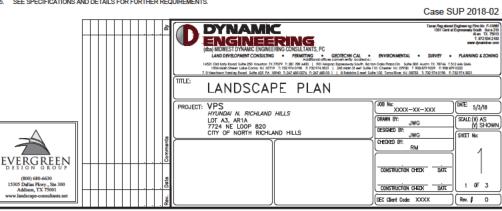
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN). BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN H-0.1' OF FINISH GRADE. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER MMEDIATELY SHOULD ANY DISCREPANCIES
- EXIST. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION. THE LANDSCAPE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTA N SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES, AND ACTUAL CONDITIONS,
- THE CONTRACTOR SHALL MMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND OWNER. CONTRACTOR SHALL ENSURE THAT THE GRADE IN SOD AREAS SHALL BE 1" BELOW FINISH GRADE BEFORE INS. ALLING SOIL AMENDMENTS, AND 2" BELOW FINISH GRADE IN SHRUB AREAS BEFORE INSTALLING SOIL AMENDMENTS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
- INSTALL 5 OUNCE WOVEN, NEEDLE-PUNCHED POLYPROPYLENE FABRIC UNDER AL. MULCHED AREAS AND INDIVIDUAL TREE RINGS. INSTALL 3" THICK LAYER OF "RARE RED ROCK #1" GRAVEL MULCH TOPDRESSING, AS AVAILABLE FROM FULLER 5 LANDSCAPE SUPPLY,
- CUSSETA, ALABAMA, (888) 749-2880, IN ALL PLANTING BEDS.
 INSTALL 14G, GREEN STEEL EDGING BETWEEN ALL PLANTING BEDS AND TURF AREAS, AND BETWEEN GROUNDCOVERS AND OTHER
- PLANTS (WHERE INDICATED ON THE PLAN).
 HYDROMULCH ALL DISTURBED AREAS OUTSIDE OF PROPERTY LIMITS (UNLESS SHOWN AS SOD).
- HYDROWINGLEF ALL DISTORBED APPEARS OUTSIDE OF PROPERTY LIMITS (ONLESS SHOWN AS SUD).

 ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (IE. MINIMUM PLANT QUANTITIES, PLANTING METHODS, RETC.). THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES, PLANT QUANTITIES, SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMA. ION ONLY. IN THE EVENT OF A DISCREPANCY SETWEEN THE PLAN AND THE PLANT LOGEND, THE PLANT GUANTITY AS SHOWN ON THE PLANT (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL
- TAKE PRECEDENCE.
 NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE
- NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE DESIGNER IN WRITING (VIA PROPER CHANNELS).

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- WATER CONSERVATION.

 WATER CONSERVATION.

 SHOULD SEEDED ANDIOR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHAL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL STAND OF GRASS A. NO ADDITIONAL COST TO THE
- TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD ALL OF THE FOLLOWING CONDITIONS MUST OCCUR THE LANDSCAPE SHALL SHOW ACTIVE, HEA THY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL
- ACCEPTANCE.
 ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
- C. SODED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HE GHT OF 112 INCHES BEFORE FIRST MOWING.
 HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH, BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST
 BE RESO





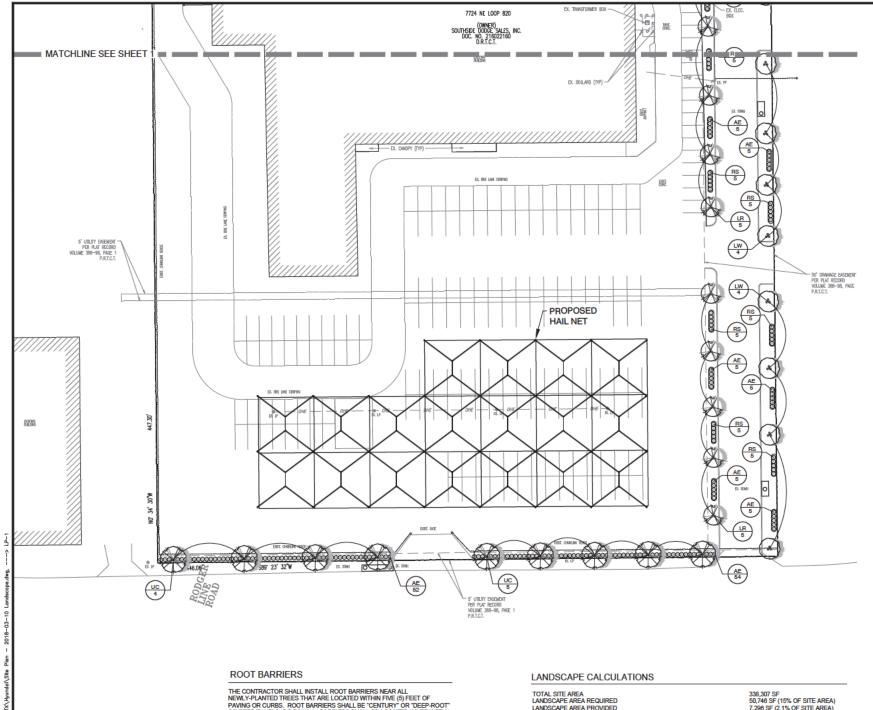
PARKING LOT LANDSCAPING ONE LARGE TREE PER 20 SPACES REQUIRED 150 SPACES / 20 7.5 8 LARGE TREES

LANDSCAPE ENTRANCES SHALL BE PLANTED WITH SMALL SHRUBS NE LOOP 820 RODGER LINE RD

PARKING LOTS SHALL BE AT LEAST 5% LANDSCAPED 222,581 SF x .05 11,129 SF LANDSCAPING REQUIRED

PROVIDED

430 SF PROVIDED



PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

MUI CHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 4" THICK AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 4"THICK LAYER OF "ARARE RED ROCK #1" GRAVE, MULCH TOPDRESSING, AS AVAILABLE FROM FULLER 5 LANDSCAPE SUPPLY, CUSSETA, ALABAMA, (883) 744-2880 (OR EQUAL), OVER LANDSCAPE FABRIC IN ALL PLANTING AREAS. CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED. LANDSCAPE AREA PROVIDED

LANDSCAPE SETBACK 15' LANDSCAPE SETBACK REQUIRED ADJACENT TO ROW NE LOOP 820 RODGER LINE RD

REQUIRED TREES IN SETBACK - 1 LARGE TREE PER 50' NE LOOP 820 206 FEET / 50 10.1 11 TREES REQUIRED RODGER LINE RD 446 FEET / 50 8.9 9 TREES REQUIRED

REQUIRED SHRUBS IN SETBACK - 10 SHRUBS PER 50' NE LOOP 820 436 FEET / 50 x 10 87 SHRUBS REQUIRED RODGER LINE RD 446 FEET / 50 x 89 89 SHRUBS REQUIRED

PARKING LOT SCREENING PARKING LOTS SHALL BE SCREENED WITH EVERGREEN SHRUBS PLACED AT 3 FEET O.C. NE LOOP 820 RODGER LINE RD

PARKING LOT LANDSCAPING ONE LARGE TREE PER 20 SPACES REQUIRED 150 SPACES / 20 7.5 8 LARGE TREES

LANDSCAPE ENTRANCES SHALL BE PLANTED WITH SMALL SHRUBS RODGER LINE RD

0' SETBACK PROVIDED 6' SETBACK PROVIDED

11 TREES PROVIDED

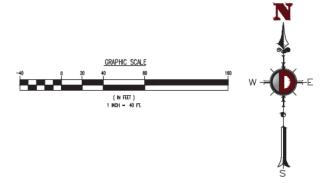
134 SHRUBS PROVIDED

PROVIDED PROVIDED

O TREES PROVIDED

PROVIDED 430 SF PROVIDED





PLANT SCHEDULE

TREES	<u> </u>	CODE	BOTANICAL NAME / COMMON NAME	CONT	CAL	HEIGHT		QTY
4		LW	Lagerstroemia indica 'Watermelon Red' / Watermelon Red Crape Myrtle Multi trunk - 3-5 canes, 2" caliper overa I.	30 gal	2"Cal	8'-10'		24
	·	LR	Lagerstroemia x 'Tuscarora' / Red Crape Myrtle Multi trunk - 3-5 canes, 2" caliper overa I.	30 gal	2"Cal			15
	3	UC	Ulmus crassifolia / Cedar Elm	B&B	3"Cal	10`-12`		9
SHRU	BS	CODE	BOTANICAL NAME / COMMON NAME	SIZE			SPACING	QTY
0)	AE	Abelia x grandiflora 'Edward Goucher' Glossy Abelia	3 gal			36" o.c.	166
0)	IN	llex vomitoria 'Nana' / Dwarf Yaupon	3 gal			36" o.c.	134
0)	RS	Rhaphiolepis indica 'Snow White' / Snow White Indian Hawthorn	5 gal			36" o.c.	55

GENERAL LANDSCAPE NOTES

- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN). BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN 4-0.1' OF FINISH GRADE. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES
- EXIST. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION. THE LANDSCAPE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT, AND AREAS OF POTENTIAL PONDING SHALL. BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL. SHOULD ANY CONFLICTS ANDIOR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES, AND ACTUAL CONDITIONS,
- THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT AND OWNER. CONTRACTOR SHALL ENSURE THAT THE GRADE IN SOD AREAS SHALL BE 1" BELOW FINISH GRADE BEFORE INSTALLING SOIL AMENDMENTS, AND 2" BELOW FINISH GRADE IN SHRUB AREAS BEFORE INSTALLING SOIL AMENDMENTS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE HE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
- INSTALL 5 OUNCE, WOVEN, NEEDLE-PUNCHED POLYPROPYLENE FABRIC UNDER ALL MULCHED AREAS AND INDIVIDUAL TREE RINGS, INSTALL 3" THICK LAYER OF "RARE RED ROCK #1" GRAVEL MULCH TOPDRESSING, AS AVAILABLE FROM FULLER 5 LANDSCAPE SUPPLY,
- CUSSETA, ALABAMA, (888) 749-2880, IN ALL PLANTING BEDS.
 INSTALL 14G, GREEN STEEL EDGING BETWEEN ALL PLANTING BEDS AND TURF AREAS, AND BETWEEN GROUNDCOVERS AND OTHER
- PLANTS (WHERE INDICATED ON THE PLAN).
 HYDROMULCH ALL DISTURBED AREAS OUTSIDE OF PROPERTY LIMITS (UNLESS SHOWN AS SOD).
- ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHA'L BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING
- AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
 THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES; PLANT QUANTITIES SHOWN ON LEGENDS AND
 CALLOURS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BE WEEN THE PLAN AND THE PLANT LEGEND,
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 NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE
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 THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90
 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY
 SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE) PROPER PRINTING, RESTAINING OF TREES, RESET ING OF PLANTS
 THAT HAVE SE TLED, MOWING AND AERATION OF LAWNS, WEEDING, RESSEDING AREAS WHICH NOT CERMINATED WELL
 TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MILCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE
 TO FAIL IT Y APRTS AND/OR WORKMANSHIP AND THE APPROPRIATE WATERINGS OF ALL PILANTINGS. THE LANDSCAPE CONTRACTOR TO FAULTY PARTS ANDIOR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE
- WATER CONSERVA ION.

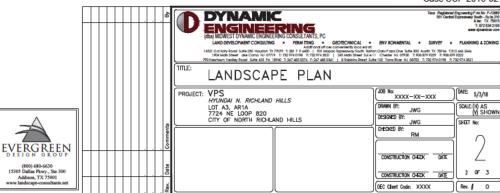
 3. SHOULD SEEDED ANDIOR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL STAND OF GRASS AT NO ADDITIONAL COST TO THE
- OWNER.
 TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL
- NOT MEETING THIS CUMULTION SHALL BE REJECTED AND REPLACED FOR REPLACED FOR MEETING TO THAN ACCEPTANCE.

 8. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.

 C. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH, BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOWED.

 15. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

Case SUP 2018-02



PLANTING SPECIFICATIONS

- ALIFICATIONS OF LANGUAGE CONTRACTION.
 ALL LANGUAGE WORK SIGNION ON THESE FLANS SHALL BE PERFORMED BY A SMOLE FIRM
 SPECULUTION ON LANGUAGE FLANTING.
 A LIST OF SUCCESSERULLY COMMETTED PROJECTS OF THIS TYPE, SIZE AND INTURE MAY BE
 A LIST OF SUCCESSERULLY COMMETTED PROJECTS OF THIS TYPE, SIZE AND INTURE MAY BE
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 THE TEXAL SEPARAMENT OF A ROUGHLINE, AS WELL AS OFERATE MEMORY ACSISTANCE
 APPLICATION LOSINES ISSUED BY STHER THE TEXAS DEPARTMENT OF AGRICULTURE OR THE TEXAS
 STRUCTURAL SET CONTROLS DOWN.
- OPE OF WORK
 WORK COMERCE BY THESE SECTIONS INCLIDES THE FLIPNISHING AND PAYMENT OF ALL IMATERIALS,
 LABOR, SERVICES, ECUIPMENT, LICENSES, YARGE AND ANY OTHER ITEMS THAT THE NECESSARY FOR
 THE ESECUTION, NOTALLITION, AND COMPLETION OF ALL WORK, SPECUED HEREN AND OF SHOWN
 ALL WORK SHALL SE PERFORMED IN ACCORDINGE WITH ALL APPLICABLE LAWS, CODES AND
 FOLIATIONS REQUIRED BY ALTERNITIES HAVING, VISISIONITION OF SUCH WORK INCLIDING ALL
 INSPECTIONS AND FERMITS REQUIRED BY STORY
 THAN SPORTATION AND INSTILLATION OF MINISTRUCY.
 THE LANGEAUTE CONTRACTOR SHALL VERBY THE LICONT ON FALL INDERGRADIUM UTILITY LINES
 (WINTER, SIENER, ELECTRICK). TEEPONCE, GAS, CABLE, TELEVISION, ETC.) PRI OR TO THE STATE OF

PRODUCTS

- JOHNED ROTO PERFORMING THAT OF THAT THE PROMINE THAT WITH THE ROOT DEFECTS (SUCH AS JOHNED ROTO PERFORMING THAT DESIRED UNACCEPTURE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE MAD SHALL BE REPLACED WITH AN ACCEPTURE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTORS OWN DEPENSE. ANY PLANTS APPEARING TO BE UNEXCLIFT. SHALL BE REPLACED WITH AN ACCEPTURE THE AUDICAPE ARCHITECT AND OWNERS AND TO THE ALC BOOK AND THE ACCEPTURE THE AUDICAPE ARCHITECT AND OWNERS AND TO THE STANDARD FOR ALC BEST SHALL BE STANDARD FOR UNLESS OFFICIAL TO PLANT AND THE STANDARD FOR UNDERSOR SPECIFIC THESE WITH CONTRAL AND THE ACCEPTURE THE AUDICAPE ACCEPTED THE ALC DAMAGED THAN AFTER PLANTING.

- LEAGERS MILL NOT BE ACCEPTED I LEAGER IS DANAGED OR REMOVED. PRILINE ALL DANAGED THIOS AFTER FLAVITIMA.

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 LESS THAN ONE OLIVET OF SOIL.
 CONTRACTORS SHALL ALSO SUBMIT THE PROJECTS PLANT LIST TO THE LABORATORY ALONG WITH
- MINITEMNICE.
 THE CONTRACTOR SHALL INSTALL SO LAMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN CONTRACT DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER MIXEASE OR LOCKEASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT. FOR BOOKING PLAYERS ONLY. THE SOIL REPORTATION SHALL CONSIST OF THE CALLOWING THE PLAYER OF THE PROPERTY OF THE TOP FOR SOIL STREAMS OF REPORTATIONS AFTER DISCISSAIL SHAPE OF THE PROPERTY OF THE TOP FOR SOIL STREAMS OF REPORTATIONS AFTER DISCISSAIL SHAPE OF THE PROPERTY OF T

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 2. MARKONIAN PROSPRIATE TO BOURS FER 1,000 S.F.

 2. THERS, SHARES, AND PERSONNALS I MOUDECRAFE THE FOLLOWING AMENDMENTS INTO THE TOP TOP TO THE TOP TO TH

- GENERAL PLANTING

 1. REMOVE ALL MURSERY TAGS AND STAKES FROM PLANTS.
 2. EXEMPT AN MEAN TO BE PLANTED WITH CROMMENTAL GRASSES, APPLY PRE-EMERGENT HERS CIDES AT THE PLANTED WITH CROMMENTAL GRASSES, APPLY PRE-EMERGENT HERS CIDES AT THE PLANTED WITH A PLANTED WITH

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- IMITERING OF ALL PLANTINGS. THE LANGISHOPS LIABITATION TO THE PART OF SEASON TO MAXIMIZE SYSTEM IN PROPER WORKING ORDER, WITH SECULDA ACAUSTMENTS BY SEASON TO MAXIMIZE SYSTEM, THE FORESPROPER OF SEASON FOR CONTROL OR STATEM, THE LANGISCHEE CONTRACTOR OHALE SE RESPONSIBLE FOR WATERING THESE AFEAS AND GETAINING A THE LANGISCHEE CONTRACTOR OHALE SEASON OF THE MAINTENANCE PERSON. ALL OF THE FOLLOW IN CONTROL OF SEASON, LOFT THE CONTROL OF THE MAINTENANCE PERSON. ALL OF THE FOLLOW IN CONTROL OF SEASON, LOFT WATER SOT MEET NO THE CONTROL SEASON, LOFT WATER SOT MEET NO THE CONTROL OF SEASON, LOFT WATER AND MATER TO THE MAINTENANCE PERSON.

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 3. ALL MAXIMOTO SHALL SHOW ACTIVE, HEALTHY GROWTH (MINE MAINTENANCE) TO THAT ACCEPTANCE.

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- ROLLED-TOP STEEL EDGING PER PLANS. 2 TAPERED STEEL STAKES.
- NOTES

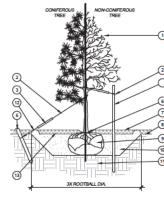
 1) NOTALL EDGING SO THAT STAVES WILL BE ON INSIDE OF PLANTING BED.
 2) SOTTOM OF EDGING SHALL BE BUR ED A MINIRUM OF I' BELOW FINISH
 3) TOP OF MILLOH SHALL BE I'LOWER THAN TOP OF EDGING.

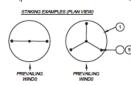
DISTANCE PER PLAN

(2) MULCHLAYER

24" MIN. TO EDGE OF MATURE CANOPY

STEEL EDGING





TREE PLANTING

- 1) TREE CANOPY.
- STRAPS AT TREE AND STAKE (36" BOX/2.5" CAL TREES AND LARGER). SECURE TIES OR STRAPS TO TRUNK JUST ABOVE LOWEST MAJOR BRANCHES.
- 3 24" X 34" P.V.C. MARKERS OVER WIRES.
- GREEN STEEL T-POSTS. EXTEND POSTS 12" MIN. INTO UNDISTURBED SOIL
- PRESSURE-TREATED WOOD DEADMAN, TWO PER TREE (MIN.). BURY OUTS DE OF PLANTING PIT AND 18" MIN. INTO UNDISTURBED SOIL.
- 7 MULCH, TYPE AND DEPTH PER PLANS. DO NOT PLACE MULCH WITHIN 6" OF TRUNK.
- 8 FINISH GRADE.
- (II) BACKF LL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.
- (11) UNDISTURBED NATIVE SO L
- (12) 4" HIGH EARTHEN WATERING BASIN
- IOTES

 SOME PY SIDES OF FLANTIND PIT PR OR TO SETTING TREE.

 REMANDE ENCESS SOL APPLED ON TOO THE ROOTBALL THAT
 COMERS THE ROOT FLANE. THE PLANTING HALE GETHI SHALL BE
 SUCH THAT THE ROOTBALL RESTS ON LINGSTLIRED SOL, AND
 THE ROOT FLANE SIZ-4" ABOVE FINISH GIFTOLE.

 POR BASI TREES, CUT OF BOTTOM 10 OF MIRE BANKET BEFORE
 FLANDIN THE RINKEL, CUT OF AD DEBLONE REMANDERS OF
 THINE, ROPE, AND OTHER PROMOSI MITERIAL. REMOVE AS MICH
 BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.

 REMOVE ALL MISSERY STANES AFTER PLANTING.

 FOR TREES SIS BOX 25" OL. MOU PLANGER USE THREE STANES
 ON DEADMEN HAS PRACTICAL THE STANES
 ON DEADMEN HAS PRACTICAL THE STANES
 ON DEADMEN HAS PRACTICAL TREES.

 BENDING, BUT LOOSE BOUGHT TO ALLOW SOME TREAK.





(2) MULCH, TYPE AND DEPTH PER PLANS. PLACE NO MORE THAN 1° OF MULCH WITHIN 6° OF PLANT CENTER.

(3) FINISH GRADE. ∩ ROOTBALL

5 BACKFILL. AMEND AND FERTILIZE ONLY AS RECOMMENDED IN SOIL FERTILITY ANALYSIS.

(6) UNDISTURBED NATIVE SOIL (7) 3" HIGH EARTHEN WATERING BASIN

8 WEED FABRIC UNDER MULCH.

E PLANTING AT PARKING AREA

SHRUB AND PERENNIAL PLANTING

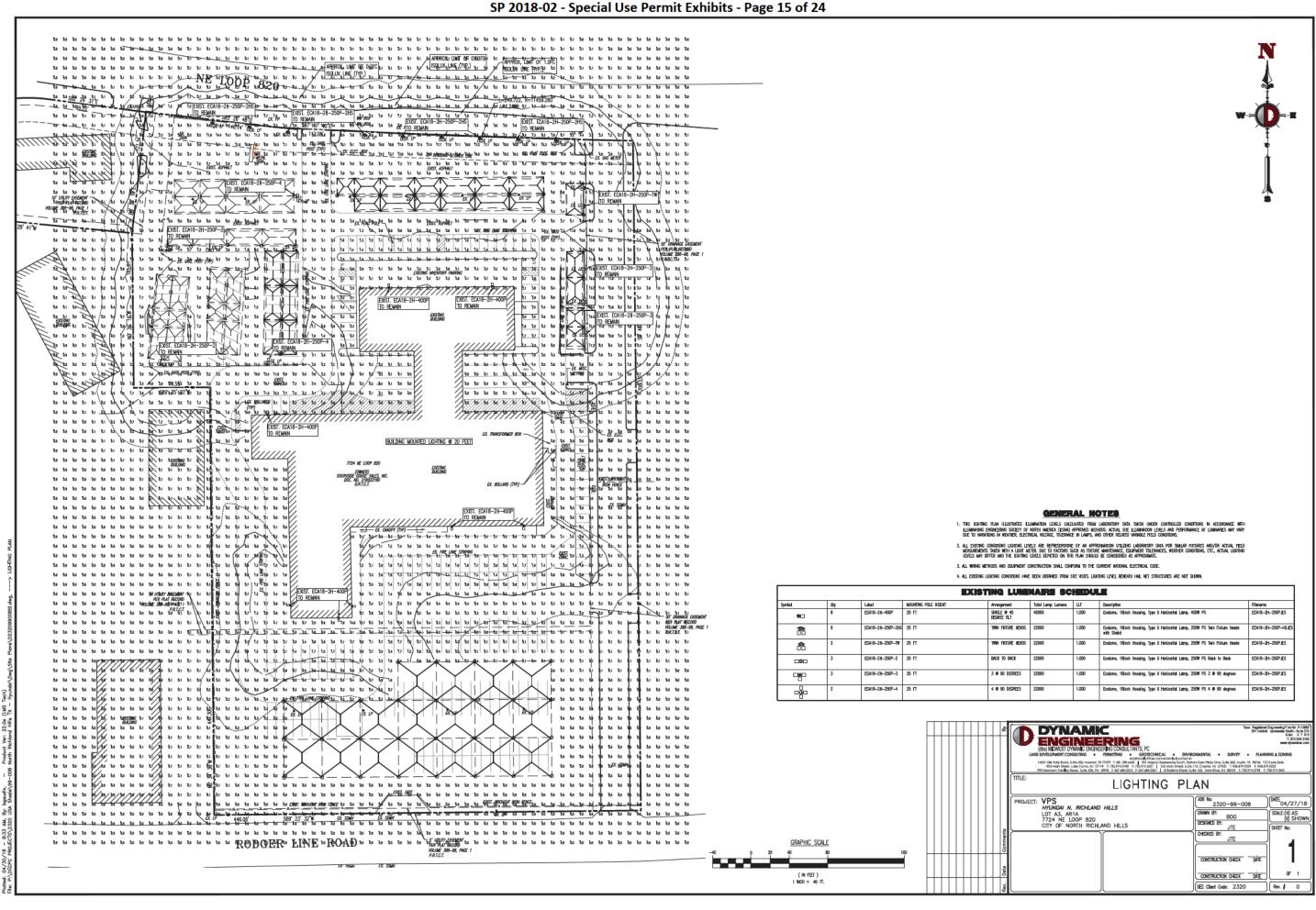
Case SUP 2018-02

CONSTRUCTION CHECK DATE DEC Client Code: XXXX



DYNAMIC LOG INTURNIC CHORNIC CHORNIC CHORNIC CHORNIC CHORN CAN BE CONTINUED AND A STATE OF THE CONTINUE AND A STATE OF THE LANDSCAPE DETAILS AND SPECS PROJECT: VPS
HYUNDAI N. RICHLAND HILLS
LOT A3, AR1A
7724 NE LOOP 820
CITY OF NORTH RICHLAND HILLS DRAWN BY: SCALE: (H) AS (M) SHOWN JWG DESIGNED BY: JWG CHECKED BY: CONSTRUCTION CHECK

EVERGREEN DESIGN GROUP



@120° 3-way 4-way	Horizontal Lamp Type III Type IV Forward Throw OH Type V	Job: Type: Notes: Page I of 3 Ecolume is a rectility segmented optical segmented optical segmented and gasketed and gasketed and gasketed flat glass lens lumina Flat glass lens lumina	Job: Type: Notes: Note	Arm Mount rea luminaires, also suitable for wall mounting. The precision red light levels, even illumination, wide pole spacings and glare door frame is extruded aluminaum. The luminaire is completely from moisture, insects and contaminants. Performance. POLTAGE VOLTAGE VOLTAGE FINISH VOLTAGE FOR MOUNTING 18" Square Luminaire 2 Twin Pole Mount at 18 2@90° Twin Pole Mount at 29 3 3-way Pole Mount at 3 3@120° 3-way Pole Mount at 3 3@120° 3-way Pole Mount at 4 4 4-way Pole Mount at 4 5 Square Luminaire 5 Use "1" for wall mounted units. 1 Use "1" for wall mounted units.	Arm I also suitable for wall mounting. The precision even illumination, wide pole spacings and glare extruded aluminum. The luminaire is completely, insects and contaminants. WATTAGE VOLTAGE VOLTAG	The pacings are is confident of all confident of the conf	rm Mount and or glare mpletely FINISH FINISH Single Pole Mount at 180° Twin Pole Mount at 90° 3-way Pole Mount at 90° 3-way Pole Mount at 120° 4-way Pole Mount Ill mounted units.	FINISH OPTIONS FINISH OPTIONS Configurations Mount at 180° Mount at 190° Mount at 120° Mount at 120°	<u>μ</u> [ω [
	m mounting STRIBL izontal L		ECWA18	18" Square Lumin	aire	Use "1" for wall mounted	units.		
ECWA18 18" Square Luminaire	Horizontal Lamp Type III FH Type IV Forward Throw QH TypeV	*Arm mounting on roun	d poles is designed to mount t	o poles measuring 3.5" OD	or larger only.				
		DISTRIBUTIC	ž						
ECWAI8 18" Square Luminaire und poles is designed to mount to poles measuring 3.5" OD or larger only.		rizontal L	 V Forward Throw						

SP 2018-02 - Special Use Permit Exhibits - Page 16 of 24



colume

Page 2 of 3

WATTAGE

Wattages marked with circle "E" meet federal energy efficiency standards applicable to 210 watt through 400 watt metal halide luminaires only.

250PSMH (E)

VOLTAGE FINISH

Arm Mount and Wall Mount

120 B 208 B	BRP Bronze Paint BLP Black Paint
	WP White Paint
	Natural Aluminum Paint
480	
OUAD	OC Optional Color Paint
120/208/240/277	Specify Optional Color or
factory tied to 277V.	RAL ex: RAL7024.
300 377 SC	
MCE, and	Specify. Must supply color chip.
•	

: magnetic PSMH ballast,	* 250PS90 includes a 90% efficient magnetic PSMH ballast,
250HPS 400HPS	High Pressure Sodium Magnetic Ballast
250PSE ⁶ (E) 320PSE ^{5,6} (E)	Pulse Start MH Electronic Ballast
210MCE-3K ⁶ (E) 210MCE-4K ⁶ (E) 315MCE-3K ⁶ (E) 315MCE-4K ⁶ (E)	MasterColor Elite Electronic System
250PS90* © 320PSMH ^{1.5} © 350PSMH ⁵ © 400PSMH ©	Pulse Start MH Magnetic Ballast

1. Not available in 480V.

PSE types only.

- 5. Requires BT28/E28 lamp.
 6. Available in 120V, 200-277V, or 480V. 120V, 347V, and 480V require and include an auxiliary transformer."-3K" indicates a 3,000°K lamp, "-4K" indicates a 4,000°K lamp. Supplied with lamp as standard 7. Supplied standard for FH optics.
 8. Kit includes In-Line Fuses. Ships as a separate accessory.
 9. Requires 2 3/8" O.D. Mast Arm.
 10. Only available with single and twin luminaires @ 180°. Mounts to square pole only.
 11. In lieu of flat glass.
 12. See QS/Q924 Table. Separate 120V power source is required.
 13. Only available with Single luminaire. Mounts to 2-3/8" tenon only.

DIMENSIONS AND EPA (CONTINUED ON PAGE

PTF4

Pole top fitter fits 3 1/2-4" OD \times 6"

depth tenon Adjustable Knuckle - Square Pole Mount Adjustable Knuckle - Tenon Mount

175 watts up to 400 watts

QS / Q924 Table

PTF3

depth tenon Pole top fitter fits 3-3 1/2" OD \times 6" depth tenon

Pole top fitter fits 2 $3/8-2 \frac{1}{2}$ " OD x 4"

PCB¹ MF^{9,14} PTF2

Mast Arm Fitter

├ [□]	
0	Arm
	Arm Mount A
⊦m+ ∞	-
	. [

ECOLUME	EPA (Ef	EPA (Effective Projected Area) ft² / m²	ed A rea)
	Single	Twin 180°	Quad
 18" units	1.9 / .177	3.8 / .354	4.8 / .446

18" units	ECOLUME
50 / 22.68	Single Luminaire Weight (lbs / kg)

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010-e_ecaecw_cut 04/27/2017

SP 2018-02 - Special Use Permit Exhibits - Page 17 of 24

PCT L

Internal House Side Shield
Fusing
In-Pole/In-Line Fusing
Locking Type Photocontrol Receptacle
with Photocontrol
Locking Type Photocontrol Receptacle
Button Photocontrol

SGII QSII QSTII

Sag Glass Lens
Quartz Standby
Quartz Standby - Timed
Quartz Standby - Timed
Delay
Quartz Emergency Quartz
Pl¹² Emergency - Timed Delay

Q924¹² QT924¹²

F K

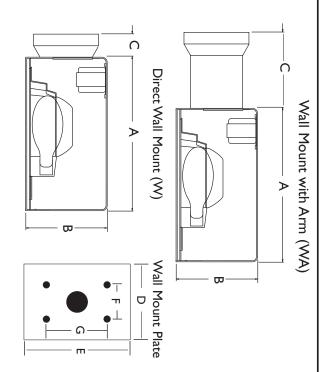
OPTIONS

Page 3 of 3

Arm Mount and Wall Mount

DIMENSIONS AND EPA (CONTINUED FROM PAGE

WALL MOUNT / WALL MOUNT PLATE	LL MOUNT PLATE
	8
A (W & WA)	18" sq 45.72cm
B (W & WA)	10"
COVA only)	=
	27.94cm
) (Work)	2"
((v Oilly)	5.08cm
	ហ៊ួ
(*	12.70cm
	7"
E (VV & VVA)	17.78cm
T ()// 8 ()//)	2.25"
T (** × ***)	5.72cm
	4"
G (W & WA)	10 16cm



SPECIFICATIONS

GENERAL DESCRIPTION: Ecolume is a cutoff luminaire for high intensity discharge lamps. Internal components are totally enclosed, rain-tight, dust-tight, and corrosion resistant. No venting of the optical system or electrical components is required or permitted. Lamping requires no lifting or hinging of the luminaire housing, disturbing wiring or exposing uninsulated live parts.

HOUSING: The housing wrapper is one-piece dieformed aluminum. The housing has an integral reinforcing spine and no welded corners. Silicone seals provide a weathertight seal at all points of material transition.

LENS: A mitered, extruded anodized aluminum door frame retains the optically clear, heat and impact resistant tempered flat glass in a sealed manner using hollow section, high compliance, memory retentive extruded silicone rubber. A single flush 1/4 turn captive fastener permits easy access to the luminaire. **OPTICAL SYSTEMS:** The segmented reflector system consists of

OPTICAL SYSTEMS: The segmented reflector system consists of two levels of highly specular aluminum facets precisely aligned to achieve specified photometric distributions. The entire optical system is field rotatable in 90° increments. The position-oriented mogul base socket is glazed porcelain with a nickel plated screw shell. A lamp stabilizer is standard on 3H and QH 400W PSMH units.

ELECTRICAL: All electrical components are UL recognized and factory tested. Electronic and magnetic HID ballasts are high power factor. Magnetic HID ballasts are the separate component type. The ballast is mounted on a unitized tray and secured within the luminaire, above the reflector system. Electronic and magnetic HID ballasts are capable of providing reliable lamp starting down to -20°F / -29°C. Standard fluorescent ballasts are solid state.

Luminaires provided with the MasterColor Elite high performance ceramic metal halide electronic system include high power factor electronic ballasts, designed specifically for the system selected.

FINISH: Each luminaire receives a fade and abrasion resistant, electrostatically applied, thermally-cured polyester powder finish after fabrication.

LABELS: All luminaires bear UL or CUL (where applicable) Wet Location labels.

WARRANTY: Ecolume Luminaires feature a 5 year limited warranty. See www.usa.lighting.philips.com/support/support/warranty for complete details and exclusions.



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010-e_ecaecw_cut 04/27/2017 page 3 of 3

Philips Lighting North America Corporation 200 Franklin Square Drive Somerset, NJ 08873 Phone: 855-486-2216

> Philips Lighting Company 281 Hillmount Road Markham ON, Canada L6C 2S3 Phone: 800-668-9008





The four-foot SHARK s ava abe n 36W and 50W versons. This impact-resistant near LED washdown fixture is deal for car washes, tunnels, stairwe is and other hard-to-reach areas where relamping is difficult and costly.

Co or: Wh te

We ght: 13.3 bs

Prepared By:	Project:	
Date:	Туре:	

	LED Info	
Constant Current	Watts:	50W
0.42A	Co or Temp:	5000K
0.24A	Co or Accuracy:	75 CRI
0.21A	L70 L fespan:	100000
0.18A	Lumens:	5161
48W	Eff cacy:	107 LPW
N/A		
	Constant Current 0.42A 0.24A 0.21A 0.18A 48W N/A	ant Current

Technical Specifications

UL Listing:

Su tab e for wet ocat ons

DLC Listed:

DLC Member Ut tes.
DLC Product Code: PV941B8V Th s product s on the Des gn L ghts Consort um (DLC)
Qua fed Products L st and segbe for rebates from

SP 2018-02 - Special Use Permit Exhibits - Page 19 of 24

NEMA Rating:

4X, protected aga nst corros on

ESNA LM-79 & LM-80 Testing:

RAB LED um na res have been tested by an ndependent aboratory n accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" abe:

Electrical

C ass 2 Constant Current, 4kV, 100-277VAC, 50-60Hz

Dimming Driver:

Dr ver nc udes d mm ng contro wrng for 0-10V d mm ng systems. Requ res separate 0-10V DC d mm ng c rcu t. D ms as ow as 10%.

7.5% at 120V, 8.9% at 277V

Power Factor:

99.1% at 120V, 95.2% at 277V

Construction

IP Rating:

Ingress Protect on rat ng of IP66 for dust and water

Reflector/Tray:

Housing:

condut and bush ng/cord entry. Po ycarbonate s affected by cean ng agents or other qu ds contain ng part a so vents such as ow mo ecu ar we ght a dehydes and ethers, ketones, esters, aromat c hydrocarbons and perch or nated hydrocarbons 5VA mpact-res stant po ycarbonate. 1/2" open ngs for

Mounting:

ava ab e. Qu ck-mount, surface, stan ess stee spr ng c ps supp ed. 4 add t ona mount ng accessory k ts

Lens:

D ffuse po ycarbonate ens for ow g are and max mum protect on

EVAs cone foam

Gaskets:

Maximum Ambient Temperature:

Su tab eFor use n 40°C (104°F) amb ent temperatures

Cold Weather Starting:

M n mum start ng temperature s -40°C (-40°F)

Green Technology:

Mercury and UV free. RoHS comp ant components Po yester powder coat f n sh formu ated w thout the use of VOC or tox c heavy meta s.

Formu ated for h gh-durab ty and ong ast ng co or

LED Characteristics

LEDs:

Long- fe, h gh-eff c ency surface mount ng LEDs

100,000-hour LED fespan based on IES LM-80 resu ts and TM-21 ca cu at ons. Color Stability:

LED co or temperature s warrant ed to sh ft no more than 200K in CCT over a 5 year per od

Color Uniformity:

RAB's range of CCT (Corre ated Co or Temperature) fo ows the gu de nes of the Amer can Nat ona Standard for Spec f cat ons for the Chromat c ty of So d State L ght ng (SSL) Products, ANSI C78.377-2015.

Other

Warranty:

RAB warrants that our LED products w be free from defects n mater as and workmansh p for a per od of f ve (5) years from the date of de very to the end user, nc ud ng coverage of ght output, co or stab ty, dr ver performance and f xture f n sh.

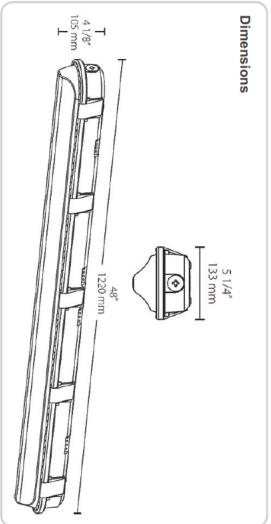
American Bureau of Shipping (ABS) :

on Mob e Offshore Q ng Un ts (MODU) and

Buy American Act Compliance:

RAB va ues USA manufactur ng! Upon request, RAB may be ab e to manufacture th s product to be comp ant w th the Buy Amer can Act (BAA). P ease contact customer serv ce to request a quote for the product to be made BAA comp ant.





Features

Impact-res stant near washdown

Idea for car washes, tunne s and starwe s

Mount ng opt ons: Cha n, junct on box, ang ed surface mount or vandares stant surface mount

IP66 Rating protects against dust & water ingress

0-10V d mm ng

5-Year, no comprom se warranty

100,000-Hour LED fespan

Family	Length	Watts	Color Temp	Finish	Dimming	Voltage
SHARK	4	50		×	/D10	
	4 = 4 ft	36 = 36W 50 = 50W	Blank = 5000K (Coo) Y = 3000K (Warm) YN = 3500K (Warm Neutra) N = 4000K (Neutra)	W = Wh te	D10 = D mmab e	Blank = 120-277V / 480 = 480V

GENERAL NOTES

DESIGN LOADS

BUILDING CODE LIVE LOADS 5 PSF 115 MPH WIND LOADS

3-Sec. Gust, RISK CATEGORY II &

EXPOSURE C

1.- 115 MPH ACCORDING THE ULTIMATE WIND SPEED MAPS OF ASCE 7-10 IS EQUIVALENT TO THE NOMINAL WIND SPEED OF 90 MPH ACCORDING ASCE 7-05 AND IBC 2012 EQ 16-32.

STRUCTURAL STEEL

1.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED, TYPICAL MECHANICAL PROPERTIES FOR HSS

SQUARE AND RECTANGULAR
ROUND PIPE

50,000 PSI YIELD / 62,000 PSI TENSILE
46,000 PSI YIELD / 62,000 PSI TENSILE

2.- ALL GALVANIZED STEEL TUBE PRODUCTS ARE MANUFACTURED PER ASTM A500, TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR GALVANIZED TUBE PRODUCTS: 45,000 PSI YIELD / 48,000 PSI TENSILE

3.- ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.

4. ALL STEEL TUBING SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

5.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

6.- ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 SPECIFICATIONS. ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS, ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING E70XX .045 WIRE.

7 - SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" UNLESS OTHERWISE NOTED. FIELD WELDS SHALL NOT BE ALLOWED.

8.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 TYPE 1 OR A490 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

9.- ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT

10,- ALL STAINLESS STEEL BOLTS / STUDS SHALL COMPLY WITH ASTM F-593, ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2.

11.- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN). THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING. POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

- HUMIDITY (ASTM D-2247)
- SOLVENT RESISTANCE (PCI METHOD) 50 DBL RUBS SL. SOFTNES

FABRIC SPECIFICATION

1.- FABRIC SHALL BE A HIGH DENSITY POLYETHYLENE WITH ULTRA VIOLET ADDITIVES. WITH MONOFILAMENT AND TAPE CONSTRUCTION GIVING A STABLE MATERIAL AND RACHEL KNITTED TO ENSURE MATERIAL WILL NOT UNRAVEL IF CUT.

2.- FABRIC SPECIFICATIONS: SOLID COLORS STRIPE COLORS
MINIMUM FADING AFTER 5 YEARS FADING - LIFE EXPECTANCY A MINIMUM OF 8 YEARS CONTINUOUS EXPOSURE TO THE SUN

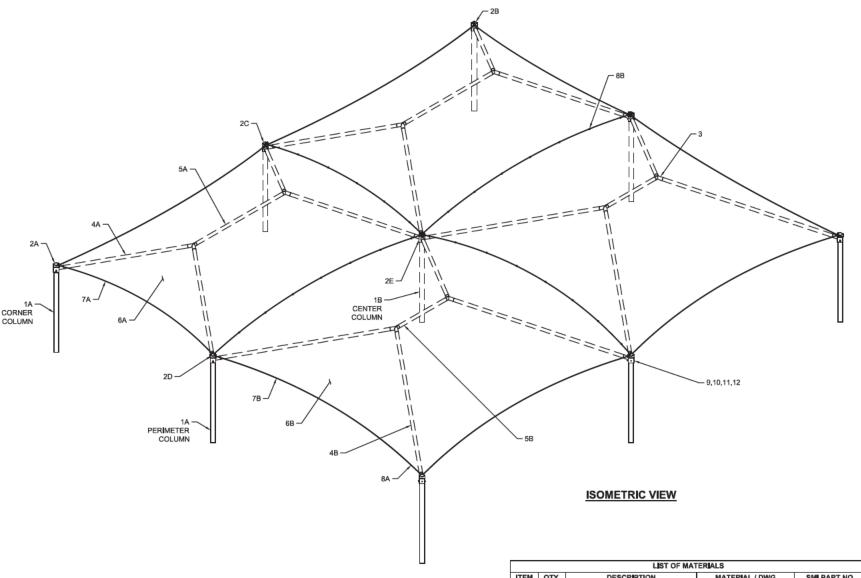
3.- FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84

4.- THREAD-PTFE (TEFLON) USED MEET THE FOLLOWING SPECIFICATIONS: HIGH STRENGTH, LOW SHRINKAGE, WIDE TEMPERATURE RANGE, FLEX & ABRASION RESISTANT AND UV RADIATION IMMUNITY. LOCKSTITCH - 1200 DENIER. CHAINSTITCH THREAD - 2400 DENIER.

AIRCRAFT CABLE

1.- WIRE ROPE CABLE SHALL BE 7x19 STRAND CORE GALVANIZED WIRE ROPE WITH A BREAKING STRENGTH VALUE OF 14,400 LBS (3/8" DIAMETER).

2. CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUNT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE



ITEM	QTY.	DESCRIPTION	MATERIAL / DWG	SMI PART NO.
1A	TBD	COLUMN CORNER & PERIMETER	HSS 7 x 7 x 0.375	N/A
1B	TBD	COLUMN CENTER	HSS 7 x 7 x 0.250	N/A
2A	TBD	CROWN SINGLE RIGHT	HSS 8 x 8 x 0,375	N/A
2B	TBD	CROWN SINGLE LEFT	HSS 8 x 8 x 0.375	N/A
2C	TBD	CROWN DOUBLE LONG SIDE	HSS 8 x 8 x 0.375	N/A
2D	TBD	CROWN DOUBLE SHORT SIDE	HSS 8 x 8 x 0.375	N/A
2E	TBD	CROWN CENTER	HSS 8 x 8 x 0.375	N/A
3	TBD	CROSSPIECE	5.0 GA. 7 RD. TUBE	N/A
4A	TBD	EXTENSION	5.0 GA. 7 RD. TUBE	LENGTH VARIE
4B	TBD	EXTENSION	5.0 GA. 7 RD. TUBE	LENGTH VARIE
5A	TBD	R I DGE	5.0 GA. 7 RD. TUBE	LENGTH VARIE
5B	TBD	RIDGE	5.0 GA. 7 RD. TUBE	LENGTH VARIE
6A	TBD	FABRIC TOP (CUSTOM)	EXTREME 32	LENGTH VARIE
6B	TBD	FABRIC TOP (CUSTOM)	EXTREME 32	LENGTH VARIE
7A	TBD	3/8" STEEL CABLE	GALVANIZED CABLE	LENGTH VARIE
7B	TBD	3/8" STEEL CABLE	GALVANIZED CABLE	LENGTH VARIES
A8	TBD	Ø3/8" CABLE CLAMP	GALVANIZED	307629
8B	TBD	Ø1/2" CABLE CLAMP	GALVANIZED	307627
9	TBD	Ø3/4"-10NC x 9 1/2" HEX BOLT	ASTM A325 GALVANIZED	308328
10	TBD	Ø3/4"-10NC HEX NUT	ASTM A563 GALVANIZED	307687
11	TBD	Ø3/4" SPLIT LOCK WASHER	ASTM F436 GALVANIZED	307832
12	TBD	Ø3/4" FLAT WASHER	ASTM F436 GALVANIZED	307624



CORPORATE HEADQUARTERS 8505-A CHANCELLOR ROW DALLAS, TX, 75247

CERTIFICATIONS:

IAS CERTIFICATION No. EA-428 CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

AUTONATION INC.

PROJECT NAME:

HYUNDAI N. RICHLAND HILLS

NORTH RICHLAND HILLS

PROJECT NUMBER. 1002

STRUCTURE TYPE: DIAMOND PROTECTORS (FULL CUSTOM)

SIZE:

VARIES SCALE: AS NOTED

DRAWING SIZE: B

1000

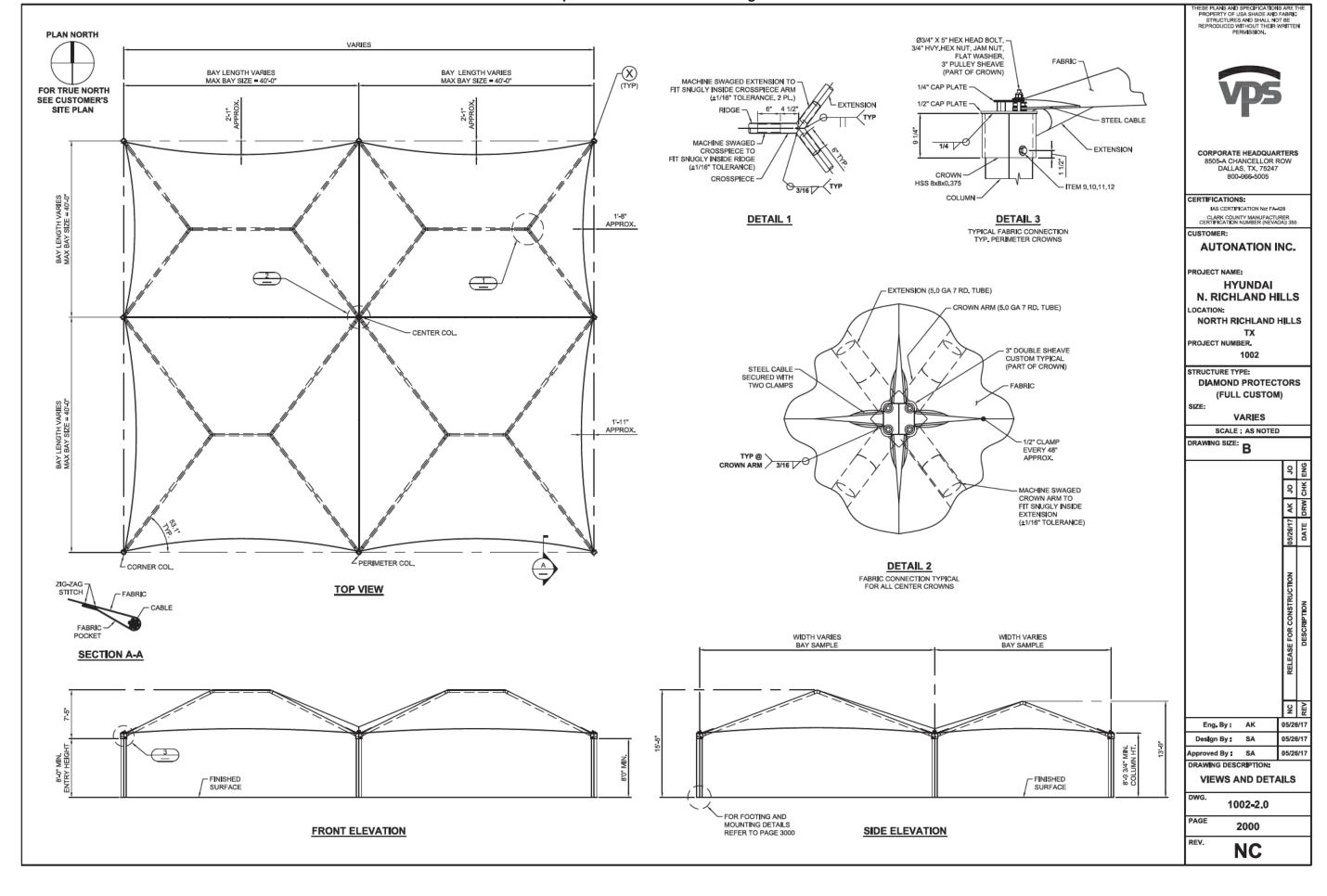
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			RELEASE FOR CONSTRUCTION	- Charles
			NC	ì
Eng. By:	AK	ŀ	05/26	3/1
Des i gn By :	SA	Ī	05/26	3/1
Approved By:	SA	Ī	05/26	3/1
DRAWING DESC	CRIPTION:	_		_
NOT	ES / LON	1		
DWG. 10	02-2.0			

CODE ANALYSIS						
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPANT LOAD		
SHADE STRUCTURE	U	V-B	TBD	N/A		
DIAMOND PROTECTORS	1					



GENERAL NOTES

DESIGN LOADS

BUILDING CODE IBC 2012 LIVE LOADS 5 PSF SNOW LOAD 5 PSF WIND LOADS 115 MPH

3-Sec. Gust, RISK CATEGORY II &

EXPOSURE C

1.- 115 MPH ACCORDING THE ULTIMATE WIND SPEED MAPS OF ASCE 7-10 IS EQUIVALENT TO THE NOMINAL WIND SPEED OF 90 MPH ACCORDING ASCE 7-05 AND IBC 2012 EQ 16-32.

STRUCTURAL STEEL

1.- ALL STRUCTURAL SHAPES SHALL BE COLD FORMED HSS ASTM A500 GRADE C, UNLESS OTHERWISE NOTED, TYPICAL MECHANICAL PROPERTIES FOR HSS PRODUCTS:

SQUARE AND RECTANGULAR 50,000 PSI YIELD / 62,000 PSI TENSILE ROUND PIPE 46,000 PSI YIELD / 62,000 PSI TENSILE

2.- ALL GALVANIZED STEEL TUBE PRODUCTS ARE MANUFACTURED PER ASTM A500. TYPICAL MECHANICAL PROPERTIES ACHIEVED FOR GALVANIZED TUBE PRODUCTS; ROUND TUBE 45.000 PSI YIELD / 48.000 PSI TENSILE

3.- ALL PLATES SHALL COMPLY WITH ASTM A572 GRADE 50.

4. ALL STEEL TUBING SHALL BE TRIPLE COATED FOR RUST PROTECTION USING THE IN-LINE ELECTROPLATING COAT PROCESS. TUBING SHALL BE INTERNALLY COATED WITH ZINC AND ORGANIC COATINGS TO PREVENT CORROSION AS MANUFACTURED BY ALLIED TUBE & CONDUIT.

5.- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS.

6.- ALL SHOP WELDS SHALL BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN WELDING SOCIETY (AWS) D1.1 SPECIFICATIONS, ALL WELDS SHALL BE CONTINUOUS WHERE LENGTH IS NOT GIVEN, UNLESS OTHERWISE SHOWN OR NOTED ON DRAWINGS, ALL WELDS SHALL DEVELOP THE FULL STRENGTH OF THE WEAKER MEMBER. ALL WELDS SHALL BE MADE USING

7.- SHOP CONNECTIONS SHALL BE WELDED UNLESS NOTED OTHERWISE. FIELD CONNECTIONS SHALL BE AS INDICATED ON THE DRAWINGS (IF REQUIRED). ALL FILLET WELDS SHALL BE A MINIMUM OF 3/16" UNLESS OTHERWISE NOTED. FIELD WELDS SHALL NOT BE ALLOWED.

8.- ALL HIGH STRENGTH BOLTS SHALL COMPLY WITH ASTM A325 TYPE 1 OR A490 TYPE 1. ALL NUTS SHALL COMPLY WITH ASTM A563DH, AND WASHERS SHALL COMPLY WITH ASTM F436.

9.- ALL HIGH STRENGTH BOLTS SHALL BE TIGHTENED TO A SNUG TIGHT

10.- ALL STAINLESS STEEL BOLTS SHALL COMPLY WITH ASTM F-593, ALLOY GROUP 1 OR 2 ALL NUTS SHALL COMPLY WITH ASTM F-594 ALLOY GROUP 1 OR 2.

11.- ALL STRUCTURAL STEEL SHALL BE PAINTED WITH ONE SHOP COAT (2.5 TO 3.5 MILS THICK MIN). THIS COAT IS A WEATHER RESISTANT POWDER COATING BASED ON POLYESTER TGIC (MANUFACTURED BY SHERWIN WILLIAMS OR TIGER DRYLAC). TO ACHIEVE OPTIMUM ADHESION, IT IS RECOMMENDED THAT THE PROPER TREATMENT AND DRYING TAKE PLACE BEFORE COATING, POLYESTER POWDER (TGIC) SPECIFICATIONS SHALL BE AS FOLLOWS:

- PENCIL HARDNESS (ASTM D-3363)
- SOLVENT RESISTANCE (PCI METHOD) 50 DBL RUBS SL. SOFTNES

FABRIC SPECIFICATION

1.- FABRIC SHALL BE A HIGH DENSITY POLYETHYLENE WITH ULTRA VIOLET ADDITIVES, WITH MONOFILAMENT AND TAPE CONSTRUCTION GIVING A STABLE MATERIAL AND RACHEL KNITTED TO ENSURE MATERIAL WILL NOT UNRAVEL IF CUT.

2.- FABRIC SPECIFICATIONS: SOLID COLORS STRIPE COLORS
MINIMUM FADING AFTER 5 YEARS FADING - LIFE EXPECTANCY A MINIMUM OF 8 YEARS CONTINUOUS EXPOSURE TO THE SUN

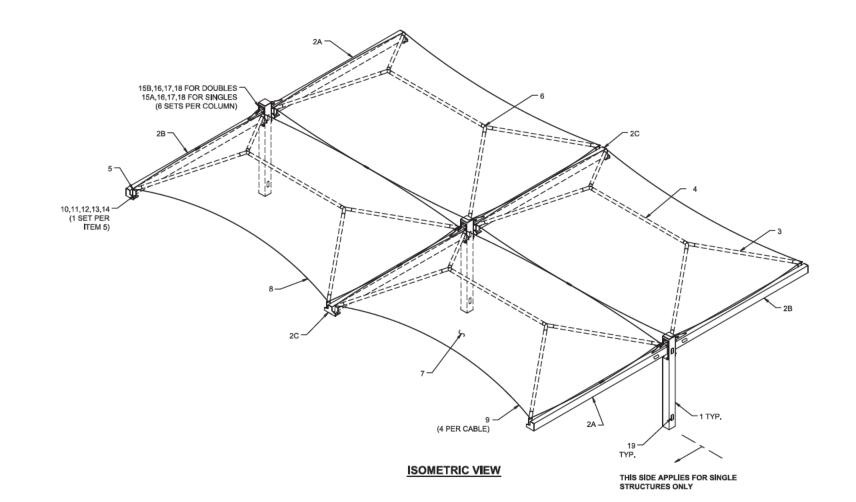
3.- FIRE TEST ON FABRIC: NFPA 701 TEST 2 AND ASTM E 84

4.- THREAD-PTFE (TEFLON) USED MEET THE FOLLOWING SPECIFICATIONS: HIGH STRENGTH, LOW SHRINKAGE, WIDE TEMPERATURE RANGE, FLEX & ABRASION RESISTANT AND UV RADIATION IMMUNITY. LOCKSTITCH - 1200 DENIER.

AIRCRAFT CABLE

1.- WIRE ROPE CABLE SHALL BE 7x19 STRAND CORE GALVANIZED WIRE ROPE WITH A BREAKING STRENGTH VALUE OF 14,400 LBS (3/8" DIAMETER).

2. CABLES SHALL BE FED THROUGH THE FABRIC SLEEVES AROUND THE PERIMETER OF THE CANOPY AND TENSIONED UNTIL THE FABRIC PANELS (DESIGNED PURPOSELY UNDERSIZED) REACH A TAUNT APPEARANCE. ANY LONG TERM CABLE SAG SHALL BE MINIMIZED DURING THE MAINTENANCE RE-TIGHTENING VISITS AS REQUIRED.



			LS (PROJECT TOTALS	<u> </u>
ITEM	QTY.	DESCRIPTION	MATERIAL / DWG.	SMI PART No.
1	TBD	COLUMN (ELECTRICAL)	HSS 10.0 x 10.0 x 0.375	N/A
2A	TBD	RIGHT CANTILEVER BEAM (ELECTRICAL)	HSS 10.0 x 6.00 x 0.375	N/A
2B	TBD	LEFT CANTILEVER BEAM (ELECTRICAL)	HSS 10.0 x 6.00 x 0.375	N/A
2C	TBD	CENTER CANTILEVER BEAM (ELECTRICAL)	HSS 10.0 x 6.00 x 0.375	N/A
3	TBD	EXTENSION	4.0 GA 8 RD. TUBING	N/A
4	TBD	RIDGE (ELECTRICAL)	4.0 GA 8 RD. TUBING	N/A
5	TBD	RAFTER	4.0 GA 8 RD. TUBING	N/A
6	TBD	CROSSPIECE (ELECTRICAL)	4.0 GA 8 RD. TUBING	N/A
7	TBD	FABRIC TOP CANT	EXTREME 32	AREA & WEIGHT VARIES
8	TBD	3/8" STEEL CABLE	GALVANIZED	LENGTH VARIES
9	TBD	3/8" CABLE CLAMP	GALVANIZED	307629
10	TBD	Ø1/2"-13NC x 5" HEX BOLT	18-8 SS	307980
11	TBD	Ø1/2"-13NC HEX NUT	18-8 SS	307621
12	TBD	Ø1/2" FLAT WASHER	18-8 SS	307645
13	TBD	Ø1/2" FLAT WASHER	DELRIN (ACETAL)	308083
14	TBD	Ø1/2" SPLIT LOCK WASHER	18-8 SS	117028
15A	TBD	Ø3/4"-10NC x 13" HEX BOLT	ASTM A325 GALVANIZED	307984
15B	TBD	Ø3/4"-10NC x 14" HEX BOLT	ASTM A325 GALVANIZED	307985
16	TBD	Ø3/4"-10NC HEX NUT	ASTM A563 GALVANIZED	307687
17	TBD	Ø3/4" SPLIT LOCK WASHER	ASTM F436 GALVANIZED	307832
18	TBD	Ø3/4" FLAT WASHER	ASTM F436 GALVANIZED	307624
19	TBD	HANDHOLE COVER KIT	5" x 5" HANDHOLE COVER KIT	HHCOV KIT-55
20	TBD	ANCHOR ROD SET 1-1/4" x 36"	F1554 GR55	307615

HESE PLANS AND SPECIFICATIONS ARE TH PROPERTY OF USA SHADE AND FABRIC STRUCTURES AND SHALL NOT BE REPRODUCED WITHOUT THEIR WRITTEN PERMISSION.



CORPORATE HEADQUARTERS 8505-A CHANCELLOR ROW

CERTIFICATIONS:

IAS CERTIFICATION No. FA-428 CLARK COUNTY MANUFACTURER CERTIFICATION NUMBER (NEVADA): 355

CUSTOMER:

AUTONATION INC.

PROJECT NAME:

HYUNDAI N. RICHLAND HILLS

OCATION: NORTH RICHLAND HILLS

PROJECT NUMBER.

STRUCTURE TYPE:

SINGLE & DOUBLE JOINED HERITAGE CANTILEVERS

VARIOUS SCALE: AS NOTED DRAWING SIZE: B 05/26/1 Eng. By: AK 05/26/1 Design By : 05/26/17 Approved By: SA DRAWING DESCRIPTION: NOTES / LOM 1002-1.0 PAGE 1000 REV.

CODE ANALYSIS						
BUILDING	OCCUPANCY	CONSTRUCTION TYPE	AREA (SQF)	OCCUPAN LOAD		
SHADE STRUCTURE TOTAL PROJECT	U	V-B	TBD	N/A		
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