



690 Chesterfield Pkwy W • Chesterfield MO 63017-0760 Phone: 636-537-4000 • Fax 636-537-4798 • www.chesterfield.mo.us

# **Architectural Review Board Staff Report**

**Project Type:** Amended Site Development Section Plan

Meeting Date: November 14, 2019

From: Mike Knight, Assistant City Planner JMK

**Location:** A 7.3 acre tract of land located northeast of the intersection of Wild Horse

Creek Road and Old Chesterfield Road.

Description: Downtown Chesterfield Category C, Lot A (WILDHORSE) ASDSP: An

Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for a 7.3 acre tract of land located northeast of the intersection of Wild Horse Creek Road

and Old Chesterfield Road.

#### PROPOSAL SUMMARY

This request is to allow for an amendment to an approved Site Development Section Plan consisting of a mixed-use building containing residential units, community retail, and a two story restaurant. The proposed facility is four to five stories in height, depending on elevation, and contains a parking garage positioned under the building. The building will be located in what is known as Lot A within "Category C" of Downtown Chesterfield. The subject site is zoned "PC&R" Planned Commercial and Residence District and governed under the terms and conditions of City of Chesterfield Ordinance 3023. The materials range from thin brick, EIFS, cultured stone, ribbed fiber cement, and ribbed metal panel. The primary changes to the site within this request include updates to the parking garage, trash enclosure, round-about feature and 15 additional residential units.

## **HISTORY OF SUBJECT SITE**

On March 19<sup>th</sup>, 2008 the City of Chesterfield City Council approved Ordinance 2449. This ordinance created one PC&R district that defined specific development criteria into three specific categories. The three categories were labeled in Ordinance 2449 as Category A, Category B, and Category C. Each category is defined by location, having specific category standards, and with a specific streetscape. On February 21<sup>st</sup>, 2018, the City of Chesterfield approved Ordinance 2990. This ordinance solely amended the legal description of the entire 99 acre PC&R district. Governing Ordinance 3023 was approved November of 2018 allowing for independent concept plans for Category C.

On February 20<sup>th</sup>, 2019 the City of Chesterfield City Council approved the Site Development Section Plan for Downtown Chesterfield Category C Lot A by a vote of 8-0. This request is an amendment to the approved Site Development Section Plan for Lot A.



Figure 1: Aerial Image of Subject Site

# **STAFF ANALYSIS**

There are four primary changes on Lot A between the currently approved Site Development Section Plan and the submitted Amended Site Development Section Plan. These changes include updates to the parking garage, trash enclosure, round-about and 15 additional residential units. There are minimal changes to the site design and no changes to the building footprint.



Figure 2: Color Site Plan

#### A. Parking Garage

Parking areas are distributed throughout the site around the building and through a parking garage under the building. The required parking for the site in accordance to the City's Unified Development Code is 455 spaces. The current site plan has 230 surface parking spaces and 219 garage parking spaces totaling 449 spaces, which does not meet the minimum parking standards for the site. Although it does not meet the requirements for the site, the governing ordinance dictates that required parking is calculated globally throughout Category C (22 acres) and not calculated on an individual lot basis. When combining the required parking for both Lots A and B of Category C, the sites both meet the minimum parking requirements per the governing ordinance.

The primary difference between the currently approved parking garage and the proposed is the number of access points. The approved elevation has an entry/exit on both the south and west elevations where the proposed building has one entry/exit solely on the south elevation. The area on the proposed western elevation that previously was a door is now stone, brick veneer, and window units. Figure 3 depicts the currently approved western elevation with the access point and the proposed western elevation absent of the access. Although the primary changes are to the updated garage, also seen on this elevation is a reorganization of the balconies across the façade and updates to the window units.



Figure 3: Western Elevation

#### **B. Trash Enclosure**

The footprint of the trash enclosure is largely the same. There are two main differences being proposed (Figure 4). The first is an additional metal panel on the top of the structure that is a similar feature to the metal panel located above the restaurant. The second is that the overall height of the enclosure is larger. The currently approved trash enclosure is 6' tall, while the new enclosure is roughly 14' tall including the metal feature depending on the grade change.

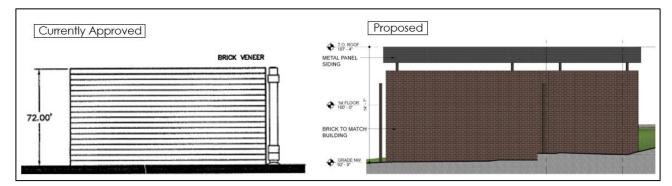


Figure 4: Trash Enclosure

#### C. Additional Residential Units

The approved Site Development Section Plan contains 173 multi-family units. The applicant is proposing 188 multi-family units. The overall height of the building will not increase. The additional units will all be added on the north elevation. Figure 5 identifies the location of new units outlined in red. There will be no new materials added to the building with the increase in units.



Figure 5: North Elevation

#### D. Round-About Feature

The internal drive to the site serves both Lots A and B. The approved plans depict a water feature in the center of the round-about. The applicant has since changed the plans and is requesting a landscape feature with a piece of art (sculpture) in the center of the round-about. The specific landscape pallette has not been updated to account for the additional plantings within the circular area, but will be required before moving forward through the approval process.

# **SUMMARY**

The applicant is requesting an amendment to the approved Site Development Section Plan for Downtown Chesterfield Category C Lot A. The site has primary views from 2 major arterial roads (I-64 and Wild Horse Creek Road) in accordance to the City's street classification map. The primary changes within this request include updates to the parking garage, trash enclosure, round-about feature and 15 additional residential units. The site will function the same with minimal changes to the site design. Below (Figures 6 and 7) are updated renderings from both primary viewpoints.



Figure 6: Aerial View Heading Northwest on Wild Horse Creek Road



Figure 7: View Heading Southeast on I-64

# **DEPARTMENT INPUT**

Be advised, this project is still going through development review by City Staff and will not proceed until all outstanding items have been addressed. All recommendations made by the ARB will be included in a formal letter to the applicant.

Staff requests review and recommendation on this submittal for Downtown Chesterfield Category C, Lot A (WILDHORSE) Amended Site Development Section Plan.

## **MOTION**

The following options are provided to the Architectural Review Board for consideration relative to this application:

- 1) "I move to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Downtown Chesterfield Category C, Lot A (WILDHORSE) ASDSP, as presented, with a recommendation for approval (or denial)."
- 2) "I move to forward the Amended Site Development Section Plan, Landscape Plan, Lighting Plan, Architectural Elevations and Architect's Statement of Design for Downtown Chesterfield Category C, Lot A (WILDHORSE) ASDSP, with the following recommendations..."

#### Attachments

1. Architectural Review Packet Submittal



October 29, 2019

Joseph M. Knight City Planner City of Chesterfield

Re: The Pearl at Wild Horse Creek

TR,i Project #: 18-030

ARCHITECT'S STATEMENT OF DESIGN

To Whom it may concern,

As required by Chesterfield's Unified Development Code the following is our Architect's Statement of Design responding to the Architectural review design standards as they apply to our project.

#### Proposed garage modifications:

- 1. Openings in the north and west elevations of the garage have been revised to 1" insulated glass in aluminum storefront system, in lieu of, the previously approved fence material.
- 2. Metal louvers have been introduced on the north and west elevations of the garage. The intent is to paint the louvers to match the adjacent building material.

# General requirements for site design:

1. Site relationships: The proposed development is located between Interstate 64 and Wild Horse Creek Road adjacent to the East bound I-64 off ramp. The only parcel with direct connection to the site is an existing warehouse development to the west. There are two vehicular access points to the site. The primary vehicular access is via full service curb cut on Wild Horse Creek Road. A secondary access is provide extending west through the existing warehouse site to connect to this development to Old Chesterfield Road. The Proposed AC Hotel use is depicted on the east side of the site plan to demonstrate the over-all site development concept. The proposed and future buildings are organized on the site to define an outdoor space. A public art feature will anchor the center of the outdoor space along with a roundabout, which will serve to calm vehicular speed and provide for distribution of traffic within the development. In the center of the proposed development would be a plaza, comprised of a round-a-bout, public art, sidewalks, and park benches. This would be the focal point as one enters the development. All vehicles entering the development would navigate through the round-a-bout, similar to Carondelet Plaza in Clayton, Missouri. The proposed buildings will surround the plaza and bring a "downtown" feel to the area and further the intent of the PC&R by promoting efficient and effective pedestrian and vehicle circulation. Parking for the development will be both surface

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and below grade garage parking. Residents would utilize the garage while the surface parking would be used by patrons of the restaurant and boutique retail. A valet service will also be a component of the restaurant.

- 2. Circulation system and access: The site organization emphasizes pedestrian connectivity of uses. Pedestrian access to the site is provide via a sidewalk running the length of the property along Wild Horse Creek Road. The development plan includes separation between vehicular circulation and pedestrian circulation with a network of public sidewalks within the development. The comprehensive pedestrian circulation system connects street to building, parking areas to building and building use to building use. Parking areas are distributed throughout the site to minimize impact, with forty eight percent (48%) of the proposed initial phase parking being located below the building, away from public view. Landscaping is used along both the internal and external network of sidewalks to add interest to the pedestrian experience. The design incorporates extensive landscaping along the interstate and Wild Horse Creek Road, which can be extended to adjacent properties as they are developed/re-developed, thus providing site connectivity and continuity.
- 3. Topography: The existing topography slopes from a southern high point down approximately 34 feet to the north on the buildable area of the site. There is approximately 31 feet of additional fall to the northern tip of the site. Modification to the grade is being proposed without the use of site retaining walls. The natural slope of the site is being utilized to facilitate parking below the building. Other slope modifications provide for handicapped pedestrian accessibility throughout the improved areas of the site. Extensive landscaping is used for screening, buffering, and enhancement to the site.
- 4. Retaining walls: No retaining walls are being proposed.

#### General requirements for building design:

- 1. Scale: There are currently no adjacent projects that set a precedent for development consistent with the City of Chesterfield design standards. The site is located between Interstate 64 and Wild Horse Creek Road. This creates the need for the project to express a scale appropriate to fit the smaller scale, more pedestrian oriented feel needed along the Wild Horse Creek Road frontage and the larger highway scaled projects along the I-64 frontage. The façade facing Wild Horse Creek Road utilizes a variety of building form, height and materials to create a dynamic and engaging expression to the public. The I-64 frontage maintains a similar level of animation and use of quality building materials making that facade commensurate with neighboring highway developments.
- 2. Design: The building design and finishes are coordinated on all sides of the building. The project has a unique character without influence of any corporate identity. The different components of this mixed-use building have individual identities. The proposed restaurant space on the southeast corner features a glass enclosed corner stair leading up and a second-floor bar/dining area with rooftop patio space. The first floor commercial along Wild Horse Creek Road projects from the building forming a continuous roof patio space utilized by the residents above. Decorative lighting, glass storefront, cultured stone and brick are used to create a pedestrian

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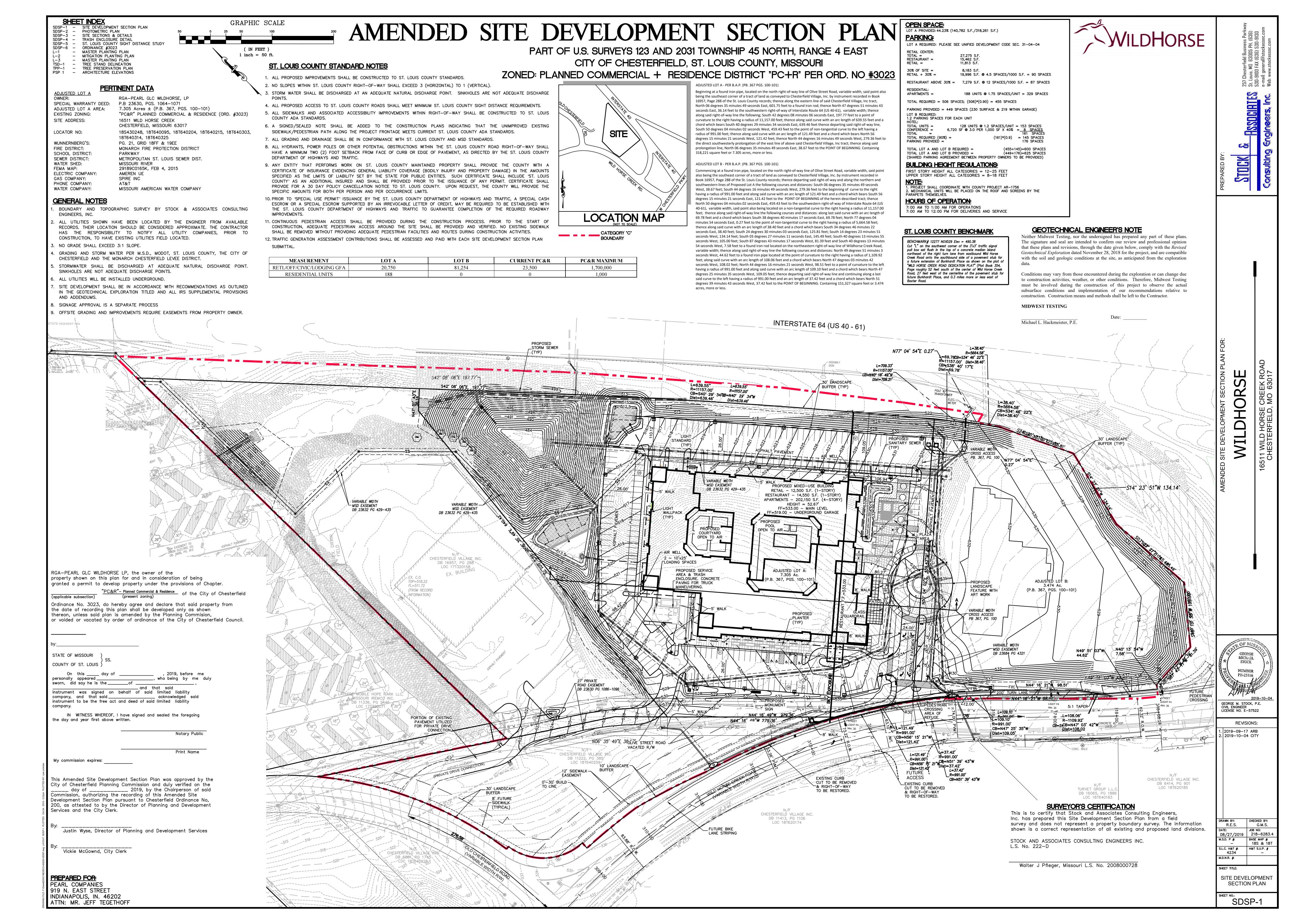
- friendly facade. The individual residential living spaces are expressed by building façade offsets, changes in parapet height, balconies, material and color changes.
- 3. Materials and Colors: Warm earth tone finishes are used throughout the exterior design that are neutral and compatible with many other pallets. The materials include brick, cultured stone, cementitious siding, aluminum storefront, clear low-e glass, architectural windows and doors. Brick cornice and other masonry details are used consistently on all sides of the building.
- 4. Landscape design and screening: Landscaping is used along the street to create connectivity to adjacent sites. Within the site landscaping is used to enhance the pedestrian experience, screen the service areas, and soften the building's base where it meets the site.
- 5. Signage: It is understood that signage is reviewed separately.
- 6. Lighting: All exterior lighting will be fully cut off and will adhere to Chesterfields UDC. Cut sheets of the lighting are included for review, they complement the buildings style.

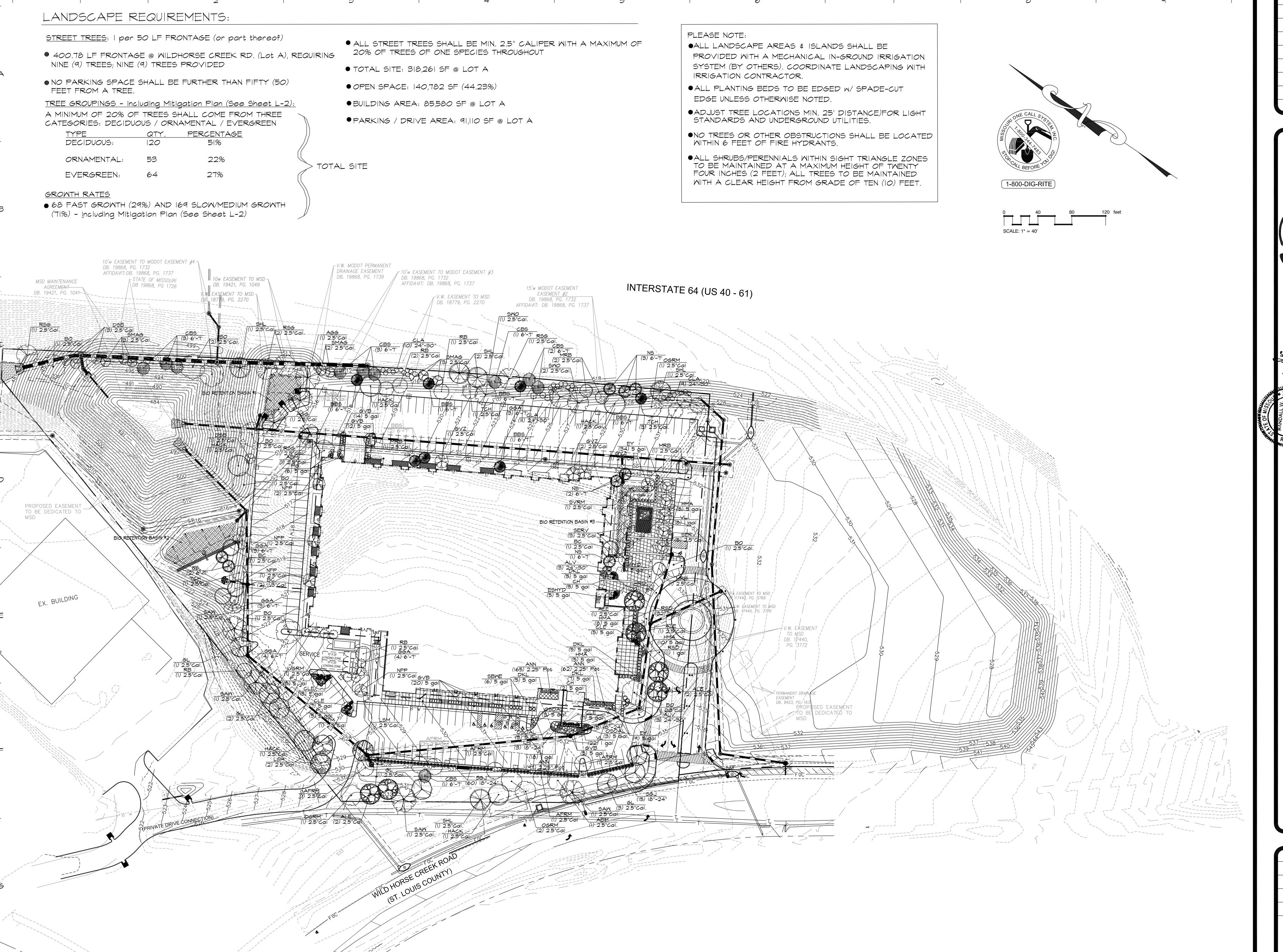
I trust this information meets your needs. Please advise if you have any questions or comments.

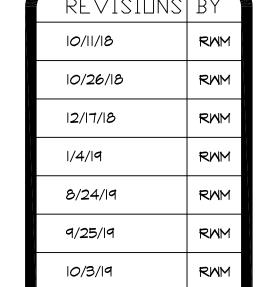
Respectfully,

**Daniel Tate** 

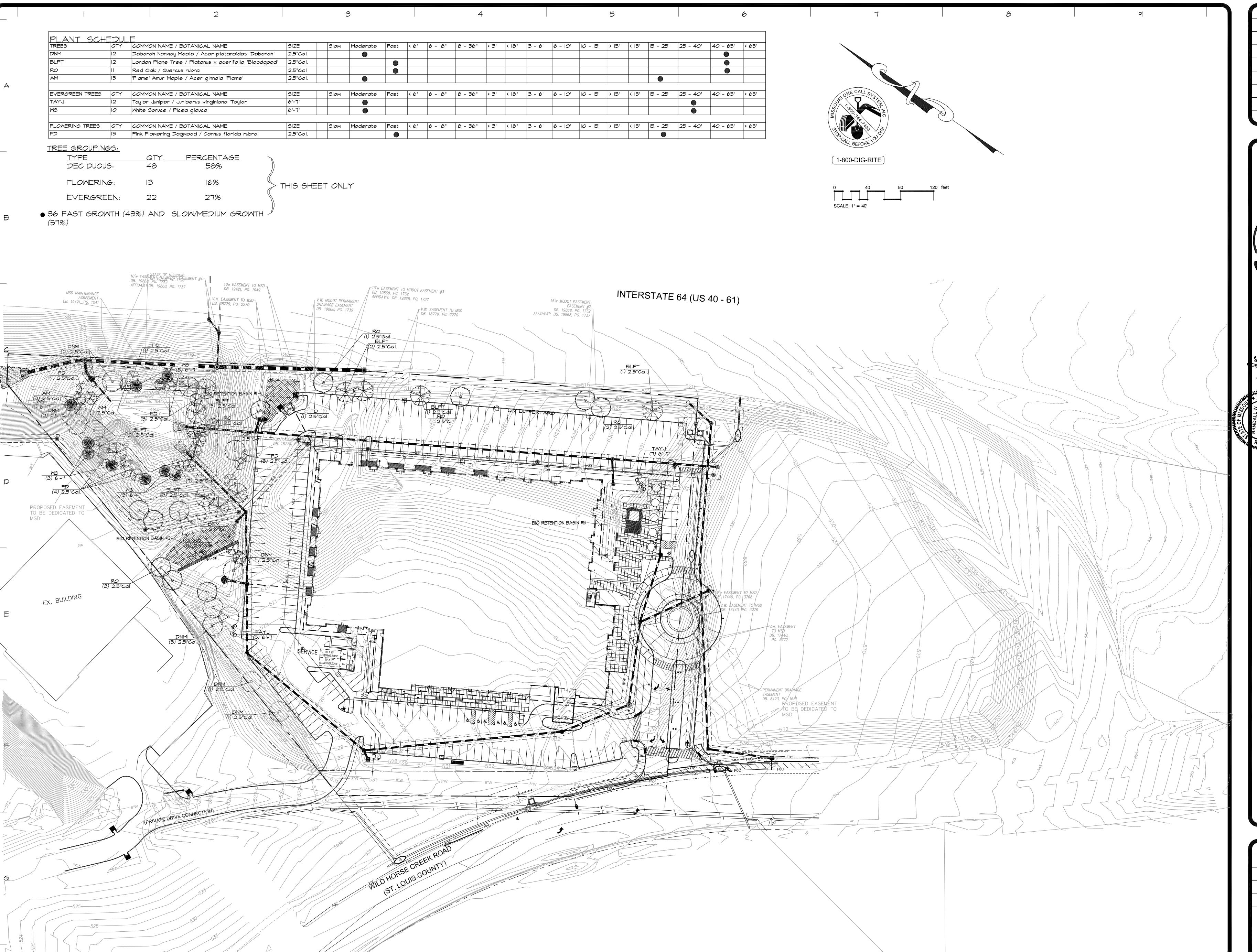
Senior Design Architect







DRAWN R. MARDIS SCALE |"=40'-0"



REVISIONS BY

10/11/18 RMM

10/26/18 RMM

12/17/18 RMM

1/4/19 RMM

8/24/19 RMM

9/25/19 RMM

10/3/19 RMM

ECHNOLOGIES Creek Drive (636) 428-1250

E. Charles, Missouri 63304 Fax: (636) 428-4563

C. Landscape Architectural Corporation #2008008782

Ildhorse Esterfield, Missouri

DRAWN
R. MARDIS

CHECKED
RWM/EL

DATE
9/6/18

SCALE
1"=40'-0"

JOB No.
2018-153

SHEET

L-2

# GENERAL:

- All natural vegetation shall be maintained where it does not interfere with construction or the permanent plan of operation. Every effort possible shall be made to protect existing structures or vegetation from damage due to equipment usage. Contractor shall at all times protect all materials and work against injury to public.
   The landscape contractor shall be responsible for any coordination and sequencing with other site related work being performed by other contractors. Refer to additional drawings for further coordination of
  - contractors. Refer to additional drawings for further coordination of work to be done.

    3.) Underground facilities, structures and utilities must be considered approximate only. There may be others not presently known or shown. It shall be the landscape contractor's responsibility to determine or verify the existence of and exact location of
  - the above (Call utility location services in municipality).

    4.) Plant material are to be planted in the same relationship to grade as was grown in nursery conditions. All planting beds shall be cultivated to 6" depth minimum and graded smooth immediately before planting of plants. Plant groundcover to within 12" of trunk of trees or shrubs planted within the area.
- 5.) It shall be the landscape contractor's responsibility to:

  A.) Verify all existing and proposed features shown on the drawings prior to commencement of work.
- B.) Report all discrepancies found with regard to existing conditions or proposed design to the landscape architect immediately for a decision.
- C.) Stake the locations of all proposed plant material and obtain the approval of the owner's representative or landscape architect ten (10) days prior to installation.
- 6.) Items shown on this drawing take precedence over the material list. It shall be the landscape contractor's responsibility to verify all quantities and conditions prior to implementation of this plan. No substitutions of types or size of plant materials will be accepted without written approval from the landscape architect.
- 7.) Provide single-stem trees unless otherwise noted in plant schedule.

  8.) All plant material shall comply with the recommendations and requirements
- of ANSI Z60.1 "American Standards for Nursery Stock".

  9.) It shall be the contractor's responsibility to provide for inspection of the plant material by the Landscape Architect (or Owners' Representative) prior to acceptance. Inspections may take place before, during or after installation. Plants not conforming exactly to the plant list will not be accepted and shall be replaced at the landscape contractor's expense.
- (O.) All bids are to have unit prices listed. The Owner has the option to delete any portion of the contract prior to signing the contract or beginning work. This will be a unit price contract; quotes shall be valid for 12 months.
   (II.) Should auger equipment be utilized in excavating any plant pits, vertical sides of plant pits shall be thoroughly scarified to avoid creation of "polished"
- sides of plant pits shall be thoroughly scarified to avoid creation of "polished side walls" prior to plant material installation.

  12.) All excess topsoil, rocks, debris and/or tainted soils shall be removed by the general contractor prior to point project is turned over to the
- | Keep all plant material (except turf) a minimum of 36" clear of fire hydrants.
   | Landscape contractor shall kill & remove all existing weeds within the project site.
   | All tags, nursery stakes, labels, etc. shall be removed by the landscape contractor at completion of all landscape installation.

landscape contractor to commence landscape installation.

- laws / regulations relating to insect infestation and/or plant diseases.
- 17.) All substitutions of plant material shall be submitted to landscape architect for approval.

# PRUNING:

- Lightly prune trees at time of planting. Prune only the crossover limbs, intermingled leaders and/or any broken branches. Some interior twigs and lateral branches may be pruned. However, do not remove the terminal buds of branches that extend to the edge of the crown.
   All pruning shall comply with ANSI A300 standards.
- INSURANCE:

  1.) The landscape contractor shall submit certificates of insurance for

# MULCH:

- I.) All mulch to be shredded oak bark mulch at 3" depth (after compaction) unless otherwise noted. Mulch shall be clean and free of all foreign materials, including weeds, mold, deleterious materials, etc.
   D 2.) No plastic sheeting or filter fabric shall be placed beneath shredded bark mulch beds. Mirafi fabric shall be used beneath all gravel mulch beds. Lap fabric 6" over adjacent coverages.
- 3.) Edge all beds with spade-cut edge unless otherwise noted.

# EROSION CONTROL BLANKET (Where applicable):

1.) All seeded areas on slopes greater than 4:1 shall receive an erosion control blanket which shall consist of loose straw mat and anchor pins as manufactured by: Northern American Green, DS 75 or approved equal. Install per manufacturer's recommendations.

# PLUG PLANTING NOTES:

- I.) All plugs to be 4-1/2" deep X 2" diameter minimum.

  2) Plugs are to be planted in a hole dua with a travel.
- 2.) Plugs are to be planted in a hole dug with a trowel, spade or planting bar such that the hole is of a minimum diameter and depth to accommodate the plug and its roots, without damage.
- 3.) Plugs shall be spaced in a triangulated layout approximately 24" on center. Plugs shall be planted through erosion control blanket where appropriate.
  4.) Obtain plugs from a reputable nursery.
  5.) Water plugs upon completion of planting so that soil is maint but not saturate.
- 5.) Water plugs upon completion of planting so that soil is moist but not saturated.

  6.) If planting is delayed more than six hours after delivery, store plugs in the shade, protect from weather and mechanical damage and keep them moist and cool. All plugs shall be planted within 24 hours after delivery.
- SPACING "D" ROM "A" PER SQ. FT.

  30" 26" 0.16
  24" 20.8" 0.25
  18" 15.6" 0.45
  AS SHOWN

  A 12" 10.4" 1.00
  10" 8.66" 1.44
  8" 6.93" 2.25

SEE PLANTING PLAN
FOR SPACING

2" DEEP MULCH - KEEP MULCH
AWAY FROM CROWN OF PLANT
BED TO DEPTH
PER NOTES

SUBGRADE

# SECTION

FORB/GRASS PLANTING DETAIL

	PLANTING, WATER and MULCH REQUIREMENTS							
	WATER AVAILABILITY	REQUIRED PLANTING PERIOD	MINIMUM CONTAINER SIZE	WATER REQUIREMENT FIRST 3 WEEKS	WATER REQUIREMENT AFTER 3 WEEKS	MAXIMUM MULCH DEPTH		
	NO AVAILABILITY TO WATER AFTER	LATE FEB. – APRIL ONLY	2.25"x3.75" OR LARGER	WATER EACH PLUG IMMEDIATELY		1.5" FOR PLUGS		
	MANUAL WATERING WITH STANDARD SPRINKLER	LATE FEB.  - EARLY JUNE or SEPT OCTOBER	4.5"x5 OR" LARGER IN SUMMER & FALL	1" (60 MIN.) EVERY 4 DAYS	1" (60 MIN.) EVERY 7 DAYS UNTIL PLANTS ESTABLISHED	1.5" FOR PLUGS 2.5" FOR QUARTS		
G	AUTOMATIC IRRIGATION (WATER MORE FREQUENTLY THAN NORMAL DURING FIRST TWO MONTHS AFTER PLANTING)	LATE FEB. – EARLY OCTOBER	2.25"x3.75" OR LARGER IN SPRING 4.5"x5 OR" LARGER IN SUMMER & FALL	1" (60 MIN.) EVERY 4 DAYS IN SPRING AND FALL 1" (60 MIN.) EVERY 3 DAYS IN SUMMER	1" (60 MIN.) EVERY 7 DAYS UNTIL PLANTS ESTABLISHED	1.5" FOR PLUGS 2.5" FOR QUARTS		

# MAINTENANCE:

- I.) Landscape Contractor shall provide a separate proposal to maintain all plants, shrubs, groundcover, perennials and annuals for a period
- of 12 months after acceptance.

  2.) Contractor shall ensure that only competent and trained personnel shall provide such services and that such services be provided in a timely manner.
- 3.) Watering of seeded or sodded lawns shall begin immediately and shall continue to be provided continuously for the following 72 hours. Regardless, the landscape contractor shall be resposible for all landscape maintenance until project turnover.

# SIGHT TRIANGLES:

- I.) No landscape material or other obstructions shall be placed or be maintained within the sight distance area so as not to impede the vision between a height of thirty inches (30") and ten feet (10') above the adjacent street or paving surfaces.
- 2.) Sight triangles at the intersection of a public street and a private access way (except for single family residences) shall also be formed by measuring from the point of intersection of the street frontage curbs and the entrance curb lines a distance of 35' and connecting the points so established to form the sight triangle area.

# TOPSOIL

- I.) Topsoil mix for all proposed landscape plantings shall be five (5) parts well-drained screened organic topsoil to one (1) part Canadian sphagnum peat moss as per planting details. Roto-till
- topsoil mix to a depth of 6" minimum and grade smooth.

  2.) Provide a soil analysis, as requested, made by an independent soil-testing agency outlining the % of organic matter, inorganic matter, deleterious material, pH and mineral content.
- 3.) Any foreign topsoil used shall be free of roots, stumps, weeds, brush, stones (larger than I"), litter or any other extraneous or toxic material. Landscape contractor shall be fully responsible for correcting all negative soil issues prior to plant installation. Killing and removal of all weeds shall be the responsibility of the landscape contractor as part of this task.
- 4.) Landscape contractor to apply pre-emergent herbicide to all planting beds upon completion of planting operations and
- before application of shredded bark mulch.

  5.) Install siltation controls prior to commencement of any grading operations. Inspect and maintain all siltation fences on a weekly basis until vegetation is established.

# MISC. MATERIAL:

- I.) Provide stakes and deadmen of sound, new hardwood, free
- of knotholes and defects.

  2.) Tree wrap tape shall be 4" minimum, designed to prevent borer damage and winter freezing. Additionally, only 3-ply tying material

# shall be used. TURF:

- I.) All disturbed lawn areas to be seeded with a mixture of Turf-Type fescue (300# per acre) and bluegrass (18# per acre). Lawn areas shall be unconditionally warranted for a period of 90 days from date of final acceptance. Bare areas more than one square foot per any 50 square feet shall
- 2.) Seed and fertilization operations shall occur between May I and June 15th or between September I and October 15th unless directed by others in writing AND irrigation system is operating.

  3.) Granular or pelleted fertilizer consisting of 50% water-insoluble slaw release pitches phosphorous and potassium in a 12-12-12
- slow release nitrogen, phosphorous and potassium in a 12-12-12 composition.

  4.) The turf contractor shall be responsible for protection of finished
- grade; restore and repair any erosion or water damage and obtain owners' approval prior to seeding or sod installation.

  5.) Landscape contractor shall offer an alternate price for sod in lieu of seed. Sod shall be cut at a uniform thickness of 3/4".
- No broken pieces, irregular pieces or torn pieces will be accepted.

  6.) Any points carrying concentrated water loads and all slopes of 15% or greater shall be sodded.
- 7.) All sod shall be placed a maximum of 24 hours after harvesting.
  8.) Recondition existing lawn areas damaged by Contractor's operations
- including equipment/material storage and movement of vehicles.

  9.) Sod Contractor to ensure sod is placed below sidewalk and all paved area elevations to allow for proper drainage.

# WARRANTY:

- I.) All plant material (excluding ground cover, perennials and annuals) are to be warranted for a period of 12 months after complete installation of all landscape material at 100% of the installed price.
- 2.) Any plant material found to be defective shall be removed and replaced within 30 days of notification or in growth season determined to be best for that plant.
  3.) Only one replacement per tree or shrub shall be required at the end

ADD 2-4 INCHES OF MULCH (SEE CIVIL DWGS, FOR TYPE) TO THE ENTIRE NEWLY

PLANTED RAIN GARDEN/BIO-RETENTION AREA. DO NOT COVER THE CROWNS OF

3. PRUNE ANY DEAD, DISEASED OR DAMAGED PLANTS AS SOON AS THE PROBLEM IS NOTICED. DEADHEAD PLANTS AS NEEDED AND DIVIDE PERENNIALS EVERY

FALL/WINTER TO ADD VISUAL INTEREST AND TO PROVIDE FOOD AND COVER

6. WATER THE GARDEN DURING ITS ESTABLISHMENT AND EXTENDED DRY PERIODS.

7. DO NOT USE LAWN FERTILIZERS NEAR GARDEN AREA AS THIS WILL STIMULATE

8. EACH SPRING, MOW AND REMOVE DEAD VEGETATION. USE BURNING ONLY UNDER SUPERVISION OF LOCAL FIRE DEPARTMENT (NATIVE PLANTS THRIVE UNDER FIRE

ALL NATIVE GRASS PLUGS ARE TO BE A MINIMUM 4.5" DEEP X 2" DIAMETER
 CONTRACTOR TO PROVIDE SIGNED AND SEALED SHOP DRAWINGS TO BE
 APPROVED BY THE PROJECT ENGINEER AND MSD. CONTACT MSD AT

CONSTRUCTION AND PLANTING OF THE BIO-RETENTION AREAS SHALL BE

• SEE CIVIL DRAWINGS FOR CROSS-SECTIONAL DETAILS OF MULCH AND SOIL

• DURING CONSTRUCTION, THE BIO-RETENTION AREAS MAY TRAP SEDIMENT. FINAL

• HEAVY EQUIPMENT SHALL BE KEPT OFF OF THE SOIL MIX DURING CONSTRUCTION

OPERATIONS TO AVOID COMPACTING. FOOT TRAFFIC AND PRE-SOAKING TO AID

3-4 YEARS AS NEEDED. LEAVE STEMS AND SEED HEADS STANDING IN

 PRUNE THE FOLIAGE OF PERENNIALS WHEN THEY DIE BACK FOR THE WINTER AND ORNAMENTAL GRASSES BEFORE NEW GROWTH BEGINS IN THE SPRING.
 HAND WEED BIMEEKLY UNTIL PLANTS ARE ESTABLISHED. THEREAFTER, REMOVE

2. AVOID FINE CUT OR LIGHTER WEIGHT MULCHES AS THEY FLOAT IN WET

- of the warranty period, unless loss is due to failure to comply with the warranty.

  4.) Lawn establishment period will be in effect once the lawn has been mowed three times. Plant establishment
- period shall commence on the date of acceptance and 100% completion.

  5.) A written quarantee shall be provided to the owner

per conditions outlined in #1 above.

BIO-RETENTION MAINTENANCE PROCEDURES:

OR SPOT WEEDS AS NECESSARY

WEED GROWTH

MANAGEMENT)

THE PERENNIALS. REPLENISH THE MULCH AS NEEDED.

ONE INCH OF WATER PER WEEK IS RECOMMENDED.

COMPLETED AFTER SILT AND DEBRIS IS REMOVED.

• SOIL pH SHALL FALL IN THE RANGE OF 5.5 AND 7.

NATURAL COMPACTION IS ALLOWABLE.

ALE	PLANT SCHED TREES	<b>QTY</b>	COMMON NAME / BOTANICAL NAME	SIZE
Author Bodid Prices   Ambient prices   Ambient Prices	<b>ALE</b>	6	Athena Lacebark Elm / Ulmus parvifolia 'Emer I'	2.5"Cal
25	4BM	2	Autumn Blaze Maple / Acer x freemanii 'Jeffersred'	2.5"Cal.
20	466	3	Autumn Gold Ginkqo / Ginkqo biloba 'Autumn Gold' TM	2.5"Cal
Description	3C	4		2.5"Cal
JACK    S.   Common Incoloury / Cell bis excidenticits   Section   Common   Cell Busines   Cell				2.5"Cal.
For a control of the process of the			'	
1.				2.5"Cal.
Service of the control of the contro		ļ	·	2.5"Cal
Secretarios Serves (Servi Negotian Serves (Negotian)			' '	2.5"Cal.
AMN	_SM	3	Legacy Sugar Maple / Acer saccharum 'Legacy'	2.5"Cal.
Sur Valley Real Hopile / Aser Indiany	<b>256</b>	5	Rotundiloba Sweet Gum / Liquidambar styraciflua 'Rotundiloba' TM	2.5"Cal.
MOD B shorpy PMSE Oak / Julence Brotler  Y	5AM	4	Sawtooth Oak / Quercus acutissima	2.5"Cal.
	SVRM	ı	Sun Valley Red Maple / Acer rubrum 'Sun Valley'	2.5"Cal
	5MO	3		2.5"Cal.
			'	2.5"Cal
			'	
Fig. 5 Styline' Locuet / Gleditisia triacanthos Styline'  VCREREEN TREES OTY COMMON NAME / BOTANICAL NAME  285 O Colorado Blue Sprice / Picaa progens 'Bloard'  295 O Colorado Blue Sprice / Picaa progens 'Bloard'  5 6 Norreal Sprice / Picaa progens 'Bloard'  5 6 Norreal Sprice / Picaa date  5 6 Norreal Sprice / Picaa date  5 6 Norreal Sprice / Picaa date  7 Norreal Sprice / Picaa date  8 Norreal Sprice / Picaa date  9 Norreal Spric			<u>'</u>	2.5"Cal
INTERSECT TREES  OF COMMON NAME / BOTANICAL, NAME  BESS   Common Name / Botanical, Name  BESS   Common Name / Picea purgers Boxenii  Description of Green Signal Service / Picea purgers Boxenii  S   6   Norroug Service / Picea purgers Siducd  From Signal Service / Picea disea  Lonce No Text Service				2.5"Cal
1 Bolari Pue Spruce / Picas purgens Balarii D Colorado Bila Spruce / Picas purgens Islaucii D Colorado Bila Spruce / Picas purgens Islaucii D Colorado Bila Spruce / Picas purgens Islaucii D 6 Norva; Spruce / Picas a bilas D 6 Norva; Spruce / Picas a bilas D 7 Common Name / PortaNical Name D 7 Common Name / PortaNical Name D 8 4 Dorny Service Picas a bilas D 9 5 Meriot Reditud / Cercius Merioti D 9 5 Meriot Reditud / Cercius Name D 9 5 Meriot Reditud / Cercius Name D 9 6 Norva III Serviceorry / Amelionitier X gradifiera Rebini Hill Name D 9 7 Reded / Cercius coraderais D 9 7 Reded / Magnetia X boulangiano D 10 7 Common Name / Dottanical Name D 9 7 Norva Name / Dottanical Name D 9 0 Common Name / Dottanical Name D 10 Common Name / Dotta	SHL	5	'Skyline' Locust / Gleditsia triacanthos 'Skyline'	2.5"Cal.
1 Bolari Pue Spruce / Picas purgens Balarii D Colorado Bila Spruce / Picas purgens Islaucii D Colorado Bila Spruce / Picas purgens Islaucii D Colorado Bila Spruce / Picas purgens Islaucii D 6 Norva; Spruce / Picas a bilas D 6 Norva; Spruce / Picas a bilas D 7 Common Name / PortaNical Name D 7 Common Name / PortaNical Name D 8 4 Dorny Service Picas a bilas D 9 5 Meriot Reditud / Cercius Merioti D 9 5 Meriot Reditud / Cercius Name D 9 5 Meriot Reditud / Cercius Name D 9 6 Norva III Serviceorry / Amelionitier X gradifiera Rebini Hill Name D 9 7 Reded / Cercius coraderais D 9 7 Reded / Magnetia X boulangiano D 10 7 Common Name / Dottanical Name D 9 7 Norva Name / Dottanical Name D 9 0 Common Name / Dottanical Name D 10 Common Name / Dotta				
Colorado Blue Spruce / Picas pungens (slauce)	VERGREEN TREES	QTY	COMMON NAME / BOTANICAL NAME	SIZE
Decidence Blue Spruce / Picce pungers (Slauce)  66A   7	3BS	7	Bakeri Blue Spruce / Picea pungens 'Bakerii'	6'-7'
Sea 17 Seriem Stant Antonvitae / Thuja pilatai 'Green Stant'   S 6 Norway Spruce / Picea dibles   CLOCATINO TREES   OTTY   COMMON NAME / Potantical Name   Donny Service Service   Picea dibles   Donny Service Service   Picea dibles   RBS		ļ ·	' -	6'-7'
COMMON NAME / BOTANICAL NAME			· · · · · · · · · · · · · · · · · · ·	6'-7'
LOMENIA TREES  ATY  COMMON NAME / BOTANICAL NAME  Bony Serviceborny / Amelianchier orbonea  MES  Merick Recibus / Cercis x Merics  FF  Shapport Flowering Film / Frunce cerasifiera Nempors'  Shapport Shapport (Amelianchier X grandfilora Robin Hill')  MAS  Shapport Flowering / Amelianchier X grandfilora Robin Hill'  MAS  Shapport Flowering / Amelianchier X grandfilora Robin Hill'  MAS  Shapport Flowering / Amelianchier X grandfilora Robin Hill'  MAS  CHAMPOR NAME / BOTANICAL NAME  Allegangy Leatherlad / Ylburam / Ylburum mystappylim 'Allegangy  MAS  Chicago Luster Arronvood / Vlburum deritatim 'Cricago Luster'  China Bay/Shi Holly / Ilax meservace (China Bay/Shi' TM  MAS  20 Deart Korean Liller / Syrigem Bregel Floilian  MAS  21 Deart Korean Liller / Syrigem Bregel Floilian  MAS  22 Deart Korean Liller / Syrigem Bregel Floilian  MAS  23 Deart Korean Liller / Syrigem Bregel Floilian  MAS  24 Deart Mas Mas  MAS  MAS  MAS  MAS  MAS  MAS  MAS  MA		ļ	- '	
		0	Norway Spruce / Micea ables	6'-7'
Meniot Redbud / Carcis x Meniot*				SIZE
	95B	4	Downy Serviceberry / Amelanchier arborea	2.5"Cal
Secondary   Seco	1RB	5	Merlot Redbud / Cercis x 'Merlot'	2.5"Cal.
				2.5"Cal
Device Hill' Serviceberry / Amelianchier X grandiflora (Rabin Hill')  Amade 8 Saucer Magnolia / Magnolia X saulurajana  The Saucer Magnolia / Magnolia X saulurajana  Thomises Cockepur Hawthom / Crabaegus crusgalli var. Inermis  The Chi 5 Thomises Cockepur Hawthom / Crabaegus crusgalli var. Inermis  The Chi 5 Alleghary Leatherleaf Viburnum / Viburnum rhybidophyllum 'Alleghany'  LLA 90 Chicago Luster Arrownood / Viburnum derbatim Chicago Luster'  The Chi 5 Degrif Hally / Ilax meervaeo (Train Boy/Ghi The Chicago Luster')  The Chi 5 Degrif Hally / Ilax meervaeo (Train Boy/Ghi The Chicago Luster')  The Chi 5 Degrif Hally / Ilax meervaeo (Train Boy/Ghi The Chicago Luster')  The Chi 5 Degrif Hally / Ilax meervaeo (Train Boy/Ghi The Chicago Luster')  The Chi 5 Degrif Hally / Ilax meervaeo (Train Boy/Ghi The Chicago Luster')  The Chi 5 Degrif Hally / Ilax meervaeo (Train Boy/Ghi The Chicago Luster')  The Chi 5 Degrif Hally / Ilax meetra of the Chicago Luster'  The Chi 5 Degrif Hally / Ilax meetra of the Chicago Luster'  The Chi 5 Degrif Hally / Ilax meetra of the Chicago Luster'  The Chi 5 Degrif Hally / Ilax meetra of the Chicago Luster'  The Chi 5 Degrif Hally / Ilax meetra of the Chicago Luster'  The Chi 5 Degrif Hally / Ilax meetra of the Chicago Luster'  The Chi 5 Degrif Hally / Ilax meetra of the Chicago Luster'  The Chicago Luster of the				2.5"Cal
Sever Magnolla / Magnolla x soulangiana  CH 5 Thomless Cockspur Hawkhorn / Crataegus crusgalli vor. inermis  SHRUBB 01Y CohMON NAME / BOTANICAL NAME  A 30 Chicago Luster Arrownood / Viburnum rhytidophylum 'Alleghany'  SLA 30 Chicago Luster Arrownood / Viburnum rhytidophylum 'Alleghany'  CHA 30 Chicago Luster Arrownood / Viburnum entatum Chicago Luster'  CHA 1 China Boy/Girl Holly / Ilax meserveae China Boy/Girl TM  DXL 22 Dworf Korean Liliac / Syringa meyeri Palibur  DXL 22 Dworf Korean Liliac / Syringa meyeri Palibur  SP 6 Edess Summer Hydrongea / Hydrongaa macrophylla Endless Summer' TM  DY 43 Everlow Year / Taxus x media Everlow'  SPB 51 Green Yelvet Boxwood / Boxus Green Velvat'  SPB 51 Green Yelvet Boxwood / Boxus Green Velvat'  SPB 51 Green Yelvet Boxwood / Boxus Green Velvat'  BOXB 52 Everlow Year / Taxus x media Everlow'  WAA 28 Hetz Midget Arbownitae / Thuja cocidentalis Hetz Midget'  Little Henry Sweetspire / Uniperus chinensis Sea Green'  Little Henry Sweetspire / Juniperus procuribers 'Nana'  SPA 54 Hermingolind Sweetspire / Juniperus chinensis Sea Green'  LILI 32 Humingolind Swemersweet / Cleibtra alinifolia 'Humingobra'  ANNUALS/PERENNIALS 0TY COMMON NAME / BOTANICAL NAME  RD 20 Happy Returns Daylliy / Henrerocallis hybrid 'Happy Returns'  RD 20 Happy Returns Daylliy / Henrerocallis hybrid 'Nappy Returns'  RD 20 Happy Returns Daylliy / Henrerocallis hybrid 'Nappy Returns'  RD 20 Happy Returns Daylliy / Henrerocallis hybrid 'Rad Stella'  Yorlegated Linippe / Linippe musceri 'Vorlegator'  FRM 10 Porty Favor Rose Mallom / Hibiscus loslocorpos  SMAS 166 Soiden Alexander / Zitia aurea  FRM 10 Porty Favor Rose Mallom / Hibiscus loslocorpos  SMAS 166 Soiden Alexander / Zitia aurea  FRM 10 Porty Favor Rose Mallom / Hibiscus loslocorpos  SMAS 166 Soiden Alexander / Zitia aurea  FRM 2500L 9 Seagy At Last Rose / Rosa x 'OSO Easy At Last'  MATTYE GRASSES 0TY COMMON NAME / BOTANICAL NAME  140 Green Bulrush / Scripus atrovinene  MATTYE GRASSES 0TY COMMON NAME / BOTANICAL NAME  140 Green Bulrush / Scripus atrovi				2.5 Cal.
Tomniese Cockspur Hanthorn / Crotalegus crusgalli van. Inemis  SHRUBB  ATY  COMMON NAME / BOTANICAL NAME  Alleghany Leatherleof Viburum / Viburum rhybladphyllum 'Alleghany'  CLA  30 Chicago Luster Arrownood / Viburum rhybladphyllum 'Alleghany'  CHA  T China Boy/feri Holly / Ilex meserveae 'China Boy/feri 'TY  DKL  22 Dharf Korean Lilla / Syringa meyeri 'Politain'  ESHTD  B Endless Summer Hydrangea / Hydrangea macrophylla 'Endless Summer' TM  EYY  43 Everlow Yen / Toxus x media Everlow'  SPRB  51 Green Velvet Boxnood / Boxus 'Green Velvet'  SPRB  6 Sante Bloom Weigelia / Allegielia Iteriad 'Sante Bloom'  MA  28 Hetz Midget Arborvitae / Thuja occidentalis 'Hetz Midget'  HII  8 Little Hanny Shaestspire / Itea viriginica 'Little Hanry' TM  Procumbers Juliper / Juniperus protumbers 'Nana'  SPRB  52 Hermingoird' Symmerswest / Clethra aniifolia 'Hummingoird'  ANNALS/PERENNIALS  ATY  COMMON NAME / BOTANICAL NAME  ARA Stella Daylily / Hemerocalis hybrid 'Happy Returns'  Red  Sea Stella Daylily / Hemerocalis hybrid 'Happy Returns'  ARA Stella Daylily / Hemerocalis hybrid 'Happy Returns'  ARA Stella Daylily / Hemerocalis hybrid Red Stella'  71 Variegated Liriope / Liriope muscari Variegata'  FERN  10 Forty Favor Rose Mellow / Hiblasus lasiocarpos  SMM  254 Swamp Milkweed / Ascleplas incarnata  SRASSES  ATY  COMMON NAME / BOTANICAL NAME  6 Gelden Alexander / Zizta aurea  10 Forty Favor Rose Mellow / Hiblasus lasiocarpos  SMM  259 Swamp Milkweed / Ascleplas incarnata  10 Forty Grave Rose Mellow / Hiblasus lasiocarpos  SMM  259 Swamp Milkweed / Ascleplas incarnata  10 Forty Grave Rose Mellow / Hiblasus lasiocarpos  SMM  260 Seay At Lost Rose / Rose x 'OSO Easy At Lost'  10 COMMON NAME / BOTANICAL NAME  10 GO Easy At Lost Rose / Rose x 'OSO Easy At Lost'  11 COMMON NAME / BOTANICAL NAME  12 COMMON NAME / BOTANICAL NAME  13 COMMON NAME / BOTANICAL NAME  14 OSO Easy At Lost Rose / Carex miprioridea  14 Seroun Fox Sedge / Carex miprioridea  14 Seroun Fox Sedge / Carex miprioridea				
ANNUALS/PERENNIALS  ATY  COMMON NAME / BOTANICAL NAME  Alleghang Leatherleaf Viburnum / Viburnum rhytiacphyllum 'Alleghang'  Chi Alleghang Leatherleaf Viburnum / Viburnum rhytiacphyllum 'Alleghang'  Chi Alleghang Leatherleaf Viburnum dentatum 'Chicago Luster'  Chi T China Boy/Giri Hollig/ Iliax measureae China Boy/Giri 'TM  CKL 22 Dharf Korean Lillac / Syringa meyeri Palbini  ESHTD 9 Enclaes Summer Hydrangea / Hydrangea macrophylla Enclaes Summer' TM  EY 43 Everlan Yen / Taxus x media Everlan'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 51 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 15 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 16 Green Leiter Mydel Boxwood / Buxus 'Green Velvet'  SYB 17 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 18 Little Henry 'Green Velvet'  SYB 19 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 19 Green Velvet Boxwood / Buxus 'Green Velvet'  SYB 10 Green Velvet Boxwood / Alleghar Syb Comment Syb Comme				2.5"Cal.
ALV 6 Alleghany Leabherleaf Viburnum / Viburnum rhytidophyllum 'Alleghany' DLA 30 Chicago Luster Arrownood / Viburnum dentatum Chicago Luster' The China Boylein Holly I (Iburn meervee China Boylein' TM DRL 22 Dwarf Karean Lilac / Syringa meyeri Palibin' 5 Encless Summer Hydrongea / Hydrorgea macrophylla Endless Summer' TM DRL 22 Dwarf Karean Lilac / Syringa meyeri Palibin' 5 Hal Suerlan Yew / Taxus x media Everlan' 5 Hal Suerlan Yew / Taxus x media Everlan' 5 Hal Suerlan Yew / Taxus x media Everlan' 5 Hal Suerlan Yew / Taxus x media Everlan' 5 Hall 6 Sonic Bloom Nelgella / Melgella florida Sonic Bloom' MA 28 Hatz Midgella / Melgella florida Sonic Bloom' MA 28 Hatz Midgella / Melgella florida Sonic Bloom' MA 29 Hatz Midgella / Melgella florida Sonic Bloom' MA 29 Hatz Midgella / Melgella florida Sonic Bloom' MA 29 Hatz Midgella / Melgella florida Sonic Bloom' MA 29 Hatz Midgella / Melgella florida Sonic Bloom' MA 29 Hatz Midgella / Melgella florida Sonic Bloom' MA 29 Hatz Midgella / Melgella florida Sonic Bloom' MA 29 Hatz Midgella / Melgella florida Sonic Bloom' MA 29 Hatz Midgella / Melgella florida Sonic Bloom' MA 29 Hatz Midgella / Melgella florida Sonic Sonic Melgella / Melgella florida Sonic Sonic Melgella /	-CH	5	Thornless Cockspur Hawthorn / Crataegus crusgalli var. inermis	2.5"Cal.
6 Alleghany Leatherieof Viburnum / Viburnum ritytidophyllum 'Alleghany' 5LA 30 Chicago Luster Arrownood / Viburnum dentatum Chicago Luster' 5H 1 China Boylefin Holly   Tibur meerveae 'China Boylefin' TM 5KL 22 Dwarf Karean Lilac / Syringa meyeri 'Palibin' 6 Enclase Summer Hydrongea / Hydrongea macrophylla Enclase Summer' TM 5Y 43 Everian Yer / Taxus x medial Everian' 6 Sonic Bloom Valgella / Neigella fiorida 'Sonic Bloom' 6 Sonic Bloom Valgella / Neigella fiorida 'Sonic Bloom' 6 Sonic Bloom Valgella / Neigella fiorida 'Sonic Bloom' 6 Sonic Bloom Valgella / Trugl accidentalis 'Hatz Midget' 6 Frecumbers Juniper / Juniperus chinansis 'Saa Green' 7 It is Aga Green Juniper / Juniperus chinansis 'Saa Green' 7 It is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green Juniper / Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green' Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green' Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green' Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green' Juniperus chinansis 'Saa Green' 7 It Is 'Saa Green' Juniperus chinansis 'Saa Green' Yanisas 'Saa Green' Yan				
CLA  BO Chicago Luster Arrowwaod / Vitourum dentatum Chicago Luster  T China Boy/Girl Holly / Illax meser-vece 'China Boy/Girl' TM  DKL  22 Dwarf Korean Lilac / Syringa meyeri Palibir'  BH Boy China Boy/Girl Holly / Illax meser-vece 'China Boy/Girl' TM  BH Boy/Girl Holly / Illax meser-vece 'China Boy/Girl' TM  BH Boy Bh Bh Bridless Summer Hydrangea / Hydrangea macrophylla 'Endless Summer' TM  BY 43 Everlow Yen / Taxus x media Everlow'  BH BOW 6 Sonic Bloom Melgella / Melgella Terida Sonic Bloom'  MA 28 Hetz Midget Arror-vitae / Thuja occidentatia 'Hetz Midget'  HI 8 Litle Henry Sweetspire / Juniperus procumbers 'Nora'  BH BOW 6 Froeumbers Juniper / Juniperus chinensis 'Sea Green'  BH BOW 7 Sea Green Juniper / Juniperus chinensis 'Sea Green'  BH Humingbird' Summersweet / Clethra alnifolia 'Hummingbird'  COMMON NAME / BOTANICAL NAME  BD 49 Red Stello Dayllly / Hemerocallis hybrid 'Happy Returns'  BSD 49 Red Stello Dayllly / Hemerocallis hybrid 'Red Stello'  AL Variegated Linippe / Linippe muscari 'Variegata'  COMBS ATY COMMON NAME / BOTANICAL NAME  BAX 166 Golden Alexander / Zizia aurea  FRRM 110 Party Favor Rose Milloon / Hilbieus Islaicarpos  BMM 259 Swamp Milkneed / Asclepias incornata  BRASSES 0TY COMMON NAME / BOTANICAL NAME  6 Midden Grass / Miscanthus sinersis 'Gracillimus'  COMMON NAME / BOTANICAL NAME  6 Midden Grass / Miscanthus sinersis 'Gracillimus'  COMMON NAME / BOTANICAL NAME  8 ACCIDENT AND AME / BOTANICAL NAME  8 ACCIDENT AND AME / BOTANICAL NAME  9 COMMON NAME / BOTANICAL NAME  8 ACCIDENT AND AME / BOTANICAL NAME  9 COMMON NAME / BOTANICAL NAME  9 COMMON NAME / BOTANICAL NAME  9 COMMON NAME / BOTANICAL NAME  100 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  101 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  102 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  103 Arrive Grasses  104 Oreat Green Bulrush / Scirpus atrovirens  105 Oreat Green Bulrush / Scirpus atrovirens	SHRUBS	QTY	COMMON NAME / BOTANICAL NAME	SIZE
CLA  30 Chloago Luster Arrowwood / Viburnum dentatum 'Chicago Luster'  T Chino Boy/Girl Holly / Illox meser-vece 'Chino Boy/Girl' TM  XL  22 Daran't Korean Liliac / Syringa meyer   Politien'  ESHYD  3 Encless Summer Hydrangea / Hydrangea macrophylla 'Encless Summer' TM  YY  43 Eyverlon't Yen / Toxus x media Everlow'  89B  51 Green Vellyet Boxuscad / Bloxus 'Green Vellyes'  6 Sonic Bloom Nelgella / Weigella Florida 'Sonic Bloom'  MA  29 Hetz Midget Arborvitze / Thija occidentalis 'Hetz Midget'  MA  29 Hetz Midget Arborvitze / Thija occidentalis 'Hetz Midget'  MA  29 Hetz Midget Arborvitze / Thija occidentalis 'Hetz Midget'  MA  29 Hetz Midget Arborvitze / Thija occidentalis 'Hetz Midget'  MA  29 Hetz Midget Arborvitze / Thija occidentalis 'Hetz Midget'  MA  20 Hetz Midget Arborvitze / Thija occidentalis 'Hetz Midget'  MA  21 Hinningbird Summersweet / Ciethra dinifolia 'Little Henry' TM  Procurbens Juniper / Juniperus chinensis 'Sea Green'  SILE  32 Hummingbird 'Summersweet / Ciethra dinifolia Hummingbird'  MANUALS/PERENNIALS  ATY  COMMON NAME / BOTANICAL NAME  WESD  43 Red Stella Daylily / Hemerocallis hybrid 'Hoppy Returns'  RED  43 Red Stella Daylily / Hemerocallis hybrid 'Red Stella'  Varlegated Lirlope / Lirlope miscarl 'Varlegata'  CORBS  GTY  COMMON NAME / BOTANICAL NAME  SAX  86 Golden Alexander / Zizia ourea  FERN  86 Golden Alexander / Zizia ourea  FERN  87 COMMON NAME / BOTANICAL NAME  88 SHOPP Red Stella Miccanthus sinensis 'Gracillimus'  AND Party Favor Rose Midleow / Hibiscus lasicacarpos  SWAM  259 Swomp Milkweed / Ascisplas Incarnata  88 SESES  GTY  COMMON NAME / BOTANICAL NAME  6 Midden Grass / Miscanthus sinensis 'Gracillimus'  COMMON NAME / BOTANICAL NAME  6 Midden Grass / Miscanthus sinensis 'Gracillimus'  AND Party Favor Rose Mede / Carex morrowil 'Aurea-varlegata'  AND Party Favor Rose Mede / Carex morrowil 'Aurea-varlegata'  AND Party Favor Rose Mede / Garex Vulpincidea  455 Oreat Green Bulrush / Scirpus atrovirens	<u> </u>	6	Alleghany Leatherleaf Viburnum / Viburnum rhytidophyllum 'Alleghany'	24"-30"
CHIA Boy/Girl Holly / Ilex meserveae 'China Boy/Girl' TM  DKL  22 Dwarf Korean Lilloz / Syringa meyeri Palibir'  Endless Summer Hydrangea / Hydrangea morophylia 'Endless Summer' TM  Everlow Yen / Taxus x media 'Everlow'  49 Everlow Yen / Taxus x media 'Everlow'  BDME  6 Sonic Bloom Weigeila / Weigeila florida 'Sonic Bloom'  MA  29 Hetz Midget Arborvitae / Thuja occidentalia 'Hetz Midget'  Hit 0 Little Henry Sweetspire / Itea virginica 'Little Henry' TM  50 Little Henry Sweetspire / Itea virginica 'Little Henry' TM  51 Sea Sreen Juliper / Juliperus procumbers 'Nana'  52 Hummingbird' Summersweet / Clethra alaifolia 'Hummingbird'  NNNALS/PERENNIALS  6 SONIC Bloom NAME / BOTANICAL NAME  10 Happy Returns Daylily / Hemerocallis hybrid 'Happy Returns'  10 Red Stella Daylily / Hemerocallis hybrid 'Happy Returns'  10 Red Stella Daylily / Hemerocallis hybrid 'Happy Returns'  10 COMMON NAME / BOTANICAL NAME  10 Variegated Liriope / Liriope muscari 'Variegata'  10 COMMON NAME / BOTANICAL NAME  10 Porty Favar Rose Mallow / Hibiscus lasiocarpos  10 Swamp Milkweed / Asclepias Incarnata  11 COMMON NAME / BOTANICAL NAME  12 Swamp Milkweed / Asclepias Incarnata  13 Swamp Milkweed / Asclepias Incarnata  14 Worlegated Japanese Sedge / Carex morrowill 'Aurea-variegata'  14 COMMON NAME / BOTANICAL NAME  15 COMMON NAME / BOTANICAL NAME  16 Midden Grass / Miscanthus sinensis 'Gracillimus'  17 COMMON NAME / BOTANICAL NAME  18 Mixed Annuals / Min. of Five Varieties  18 COMMON NAME / BOTANICAL NAME  19 OSO Easy At Lost Rose / Rosa x 'OSO Easy At Lost'  19 COMMON NAME / BOTANICAL NAME  19 OSO Easy At Lost Rose / Rosa x virgo Easy At Lost'  19 Oso Easy At Lost Rose / Rosa x virgo Easy At Lost'  19 Oso Easy At Lost Rose / Rosa x virgo Easy At Lost'  19 Oso Easy At Lost Rose / Rosa x virgo Easy At Lost'  19 Oso Easy At Lost Rose / Rosa x virgo Easy At Lost'  19 Oso Easy At Lost Rose / Rosa x virgo Easy At Lost'  19 Oso Easy At Lost Rose / Garex y upinoldea  19 Oso Easy At Lost Rose / Garex y upinoldea	LA	30		24"-30"
Decidence of Syringa meyeri "Pallibin"  5 Enaless Summer Hydrangea   Hydrangea macrophylla "Enaless Summer" TM   5 Enaless Summer Hydrangea   Hydrangea macrophylla "Enaless Summer" TM   5 Everlow Yew   Taxus x media Everlow"   5 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   5 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   5 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   5 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   5 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   5 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   5 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   5 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   6 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   6 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   6 Element   Sonic Bloom Weigella   Pisigella Florida Sonic Bloom   7 Element   Sonic Bloom Weigella   Pisigella Florida Flori		<b>.</b>		
Endless Summer Hydrongea / Hydrongea macrophylla 'Endless Summer' TM EYP 43 Everlow Yen / Taxus x media Everlow' 50°B 51 Green Velvet Boxwood / Buxus 'Green Velvet' 6 Sonla Bloom Meigella / Nelgella florida 'Sonla Bloom' MA 28 Hetz Miaget Arborvitae / Truja acaldentalis Hetz Midget' HI 9 Little Henry Sweetspine / Itea virginica 'Little Henry' TM Procumbens Juniper / Juniperus procumbens Nana' 15 Sea Green Juniper / Juniperus chinensis 'Sea Green' BLE 32 Hummingbird' Summersweet / Clethra alnifolia 'Hummingbird' NANUALS/PERENNIALS GTY COMMON NAME / BOTANICAL NAME RD 20 Happy Returns Daylily / Hemerocallis hybrid 'Happy Returns' RD 43 Red Stella Daylily / Hemerocallis hybrid 'Happy Returns' RD 43 Red Stella Daylily / Hemerocallis hybrid 'Red Stella' Variegated Liniope / Liniope muscari Variegata'  FORBS GTY COMMON NAME / BOTANICAL NAME Geden Alexander / Zitia aurea FERM IIO Party Favor Rose Mallow / Hibiscus lasiocarpos SMM 259 Swamp Milkweed / Ascieplas Incarnata  GRASSES GTY COMMON NAME / BOTANICAL NAME 6 Maiden Grass / Misconthus sinensis 'Gracillimus'  GRASSES GTY COMMON NAME / BOTANICAL NAME 8 Maiden Grass / Misconthus sinensis 'Gracillimus'  GROSES GTY COMMON NAME / BOTANICAL NAME 9 OO Easy At Last Rose / Rosa x 'OSO Easy At Last'  GROSES GTY COMMON NAME / BOTANICAL NAME 9 OO Easy At Last Rose / Rosa x 'OSO Easy At Last'  GROSES GTY COMMON NAME / BOTANICAL NAME 9 OO Easy At Last Rose / Corex morrowii 'Aurea-variegata'  MATIVE GRASSES GTY COMMON NAME / BOTANICAL NAME 10 ON Fox Sedge / Carex vulpinoidea  GRASSES GTY COMMON NAME / BOTANICAL NAME 10 ON Fox Sedge / Carex vulpinoidea  MATIVE GRASSES GTY COMMON NAME / BOTANICAL NAME 10 ON Fox Sedge / Carex vulpinoidea  Marning Star Sedge / Carex grayi		ļ ·		5 gal
EVER 43 Everlow Yew / Taxus x media "Everlow"  51 Green Velvet Boxxnood / Buxus Green Velvet"  52 Sonic Blaom Malgella / Melgella florida "Sonic Blaom"  MA 28 Hetz Midget Arborvitae / Truja occidentalis Hetz Midget"  Jel 10 Little Henry Sweetspire / Itea virginica "Little Henry" TM  D Little Henry Sweetspire / Itea virginica "Little Henry" TM  P 1 (6 Procumbens Juniper / Juniperus procumbens Nana"  SSGI 15 Sea Green Juniper / Juniperus chinensis "Sea Green"  SILE 32 "Hummingoird" Summersweet / Clethra alaifolia "Hummingbird"  NANUALS/PERENNIALS GTY COMMON NAME / BOTANICAL NAME  RD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 43 Red Stella Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 43 Red Stella Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 43 Red Stella Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 43 Red Stella Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Returns"  RSD 20 Happy Returns Daylilly / Hemeroccallis hybrid "Happy Happy Happy Ha				5 gal
SPINE 5   Green Velvet Boxwaod / Buxus 'Green Velvet' 6   SPINE 6   Sonto Bloom Weigelia / Meigelia florida 'Sonto Bloom'   SPINE 6   Sonto Bloom Weigelia / Meigelia florida 'Sonto Bloom'   MA   28   Hetz Midget Arborvitae / Thuja occidentalis 'Hetz Midget'   Hill 6   Little Henry Sweetspire / Itaa virginica 'Little Henry 'TM   Procumbers Juniper / Juniperus chinensis 'Soa Green 'Soa Green Juniper / Juniperus chinensis 'Soa Green'   Spine   Spine Green'   S	SHYD	8	Endless Summer Hydrangea / Hydrangea macrophylla 'Endless Summer' TM	5 gal
Sonic Bloom Welgella / Welgella Florida 'Sonic Bloom' MA 20 Hetz Midget Arborvitae / Thuja occidentalis 'Hetz Midget' HII 8 Little Henry Sweetspire / Itea virginica 'Little Henry' TM HII 9 Procumbens Juniper / Juniperus procumbens Nana' 16 Procumbens Juniper / Juniperus procumbens Nana' 175 Sea Green Juniper / Juniperus chinensis 'Sea Green' 186 32 Hummingbird' Summersweet / Clethra alnifolia 'Hummingbird' 187 COMMON NAME / BOTANICAL NAME 188 RD 20 Hoppy Returns Daylliy / Hemerocallis hybrid 'Happy Returns' 189 43 Red Stella Daylliy / Hemerocallis hybrid 'Happy Returns' 180 45 Red Stella Daylliy / Hemerocallis hybrid 'Red Stella' 171 Variegated Liniope / Liniope muscari 'Variegata' 180 COMMON NAME / BOTANICAL NAME 180 Golden Alexander / Zizla aurea 180 Golden Alexander / Zizla aurea 180 Shax Idé Golden Alexander / Asclepias incarnata 180 Shamp Milkweed / Asclepias incarnata 180 Shamp Milkweed / Asclepias incarnata 180 Shamp Milkweed / Asclepias incarnata 180 Moiden Grass / Miscanthus sinensis 'Gracillimus' 180 GOLD Gosp At Last Rose / Rosa x '050 Easy At Last' 180 COMMON NAME / BOTANICAL NAME 180 SOAL 9 OSO Easy At Last Rose / Rosa x '050 Easy At Last' 180 Variegated Japanese Sedge / Carex morrowill 'Aurea-variegata' 181 ATIVE GRASSES OTY COMMON NAME / BOTANICAL NAME 181 Scoal Alexander / Gorden Bulrush / Scirpus atrovirens 183 Morning Star Sedge / Carex yulpinoldea 183 Morning Star Sedge / Carex grayl	Y	43	Everlow Yew / Taxus x media 'Everlow'	5 gal
Hetz Midget Arborvitae / Thuja accidentalis "Hetz Midget" Hit 8 Little Henry Sweetspire / Itea virginica "Little Henry TM Pu 16 Procumbens Juniper / Juniperus procumbens Nana" 15 Sea Green Juniper / Juniperus chinensis "Saa Green" 15 LE 32 Hummingbird "Summersweet / Clethra ainifolia Hummingbird" 16 NANUALS/PERENNIALS ATY COMMON NAME / BOTANICAL NAME 17 RO 20 Happy Returns Daylily / Hemerocallis hybrid "Happy Returns" 18 Red Stella Daylily / Hemerocallis hybrid "Red Stella" 17 Variegated Liriope / Liriope muscari Variegata' 18 COMMON NAME / BOTANICAL NAME 18 Golden Alexander / Zizia aurea 18 SHAX 16 Golden Alexander / Zizia aurea 18 SHAX 16 Golden Alexander / Asclepias incarnata 18 SHAMS 259 Swamp Milkneed / Asclepias incarnata 18 SHASSES ATY COMMON NAME / BOTANICAL NAME 18 Golden Graes / Miscanthus sinensis 'Gracillimus' 18 GOSES ATY COMMON NAME / BOTANICAL NAME 18 GOLDEN AME / BOTANICAL NAME 28 ATY COMMON NAME / BOTANICAL NAME 28 ATY COMMON NAME / BOTANICAL NAME 29 ATTY COMMON NAME / BOTANICAL NAME 29 ATTY COMMON NAME / BOTANICAL NAME 20 BOTANICAL NAME 20 BOTANICAL NAME 20 COMMON NAME / BOTANICAL NAME 20 COMMON	5VB	51	Green Velvet Boxwood / Buxus 'Green Velvet'	5 gal
Hetz Midget Arborvitae / Thuja accidentalis "Hetz Midget" Hit 8 Little Henry Sweetspire / Itea virginica "Little Henry TM Pu 16 Procumbens Juniper / Juniperus procumbens Nana" 15 Sea Green Juniper / Juniperus chinensis "Saa Green" 15 LE 32 Hummingbird "Summersweet / Clethra ainifolia Hummingbird" 16 NANUALS/PERENNIALS ATY COMMON NAME / BOTANICAL NAME 17 RO 20 Happy Returns Daylily / Hemerocallis hybrid "Happy Returns" 18 Red Stella Daylily / Hemerocallis hybrid "Red Stella" 17 Variegated Liriope / Liriope muscari Variegata' 18 COMMON NAME / BOTANICAL NAME 18 Golden Alexander / Zizia aurea 18 SHAX 16 Golden Alexander / Zizia aurea 18 SHAX 16 Golden Alexander / Asclepias incarnata 18 SHAMS 259 Swamp Milkneed / Asclepias incarnata 18 SHASSES ATY COMMON NAME / BOTANICAL NAME 18 Golden Graes / Miscanthus sinensis 'Gracillimus' 18 GOSES ATY COMMON NAME / BOTANICAL NAME 18 GOLDEN AME / BOTANICAL NAME 28 ATY COMMON NAME / BOTANICAL NAME 28 ATY COMMON NAME / BOTANICAL NAME 29 ATTY COMMON NAME / BOTANICAL NAME 29 ATTY COMMON NAME / BOTANICAL NAME 20 BOTANICAL NAME 20 BOTANICAL NAME 20 COMMON NAME / BOTANICAL NAME 20 COMMON	BARE	6	Sonic Bloom Weigelia / Weigelia florida 'Sonic Bloom'	5 gal
HII   8   Little Henry Sweetspire / Itea virginica "Little Henry" TM PL   16   Procumbens Juniper / Juniperus procumbens Nana"   35   Sea Green Juniper / Juniperus chinensis "Sea Green"     32   Hummingbird" Summersweet / Clethra alnifolia "Hummingbird"     33   Red Stella Dayllig / Hemerocallis hybrid "Red Stella"     34   Red Stella Dayllig / Hemerocallis hybrid "Red Stella"     35   Red Stella Dayllig / Hemerocallis hybrid "Red Stella"     36   Red Stella Dayllig / Hemerocallis hybrid "Red Stella"     36   Allie   Common Name / Botanical Name     36   Golden Alexander / Zizia aurea     36   Golden Alexander / Zizia aurea     36   Swamp Milikweed / Ascleplas Incarnata     36   Swamp Milikweed / Ascleplas Incarnata     36   Swamp Milikweed / Ascleplas Incarnata     36   Maiden Grass / Miscanthus sinensis "Gracillinus"     36   Allie   Golden Alexander   Botanical Name     36   Golden Alexander   Botanical Name     36   Allie   Golden Alexander   Rosa x 'OSO Easy At Last'     37   COMMON NAME / BOTANICAL NAME     38   Allie   Annuals / Min. of Five Varieties     38   Allie   Golden Alexander   Botanical Name     38   Allie   Golden Alexander   Botanical Name     38   Allie   Grass   Golden Alexander   Golden Alexander     38   Allie   Golden Alexander   Golden Alexander     39   Allie   Golden Alexander   Golden Alexander     30   Golden Alexander   Golden Alexander     31   Golden Alexander				
16   Procumbens Juniper / Juniperus procumbens 'Nona'   15   Sea Green Juniper / Juniperus chinensis 'Sea Green'   15   Sea Green Juniper / Juniperus chinensis 'Sea Green'   16   Summersweet / Clethra ainifolia 'Hummingbird'   17   Summersweet / Clethra ainifolia 'Hummingbird'   18   Summersweet / Summersweet / Clethra ainifolia 'Hummingbird'   18   Summersweet / Summersweet / Clethra ainifolia 'Hummingbird'   18   Summersweet / Su		ļ		5 gal
Sea Green Juniper / Juniperus chinensis 'Sea Green'    Sea Green Juniper / Juniperus chinensis 'Sea Green'   Sea Green Juniper / Juniperus chinensis 'Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name   Sea Green Juniper / Cothon Name / Botanical Name   Sea Green Juniper / Cothon Name / Botanical Name   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green'   Sea Green Juniper / Cothon Name / Botanical Name / Sea Green Juniper / Cothon Name / Botanical Name / Sea Green Juniper / Sea Gree				18"-24"
SANNUALS/PERENNIALS  ANNUALS/PERENNIALS  AND  ANNUALS/PERENNIALS  AND  ANNUALS/PERENNIALS  AND  AND  AND  AND  AND  AND  AND  AN	2J	16	Procumbens Juniper / Juniperus procumbens 'Nana'	5 gal
ANNUALS/PERENNIALS  OTY  COMMON NAME / BOTANICAL NAME  RD  20  Happy Returns Daylily / Hemerocallis hybrid 'Happy Returns'  Red Stella Daylily / Hemerocallis hybrid 'Red Stella'  //L  T4  Variegated Liriope / Liriope muscari 'Variegata'  CORBS  OTY  COMMON NAME / BOTANICAL NAME  SAX  I66  Solden Alexander / Zizia aurea  Prem  II0  Party Favor Rose Mallow / Hibiscus Iaslocarpos  MW  259  Swamp Milkweed / Asclepias Incarnata  SRASSES  OTY  COMMON NAME / BOTANICAL NAME  6  Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES  OTY  COMMON NAME / BOTANICAL NAME  OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  SROUND COVERS  OTY  COMMON NAME / BOTANICAL NAME  324  Mixed Annuals / Min. of Five Varieties  601  Variegated Japanese Sedge / Carex morrowili 'Aurea-variegata'  ATIVE GRASSES  OTY  COMMON NAME / BOTANICAL NAME  Brown Fox Sedge / Carex vulpinoidea  485  Great Green Bulrush / Scirpus atrovirens  Morning Star Sedge / Carex grayi	66J	75	Sea Green Juniper / Juniperus chinensis 'Sea Green'	18"-24"
RD 20 Happy Returns Dayllly / Hemerocallis hybrid 'Happy Returns' RSD 43 Red Stella Dayllly / Hemerocallis hybrid 'Red Stella'  //L 74 Variegated Liriope / Liriope muscari 'Variegata'  FORBS ATY COMMON NAME / BOTANICAL NAME  SAX 166 Golden Alexander / Zizia aurea  PFRM 110 Party Favor Rose Mallow / Hibiscus Iasiocarpos  SMMW 259 Swamp Milkweed / Asclepias incarnata  SRASSES ATY COMMON NAME / BOTANICAL NAME  66 Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES ATY COMMON NAME / BOTANICAL NAME  97 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  SROUND COVERS ATY COMMON NAME / BOTANICAL NAME  98 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  67 COMMON NAME / BOTANICAL NAME  98 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  68 Mixed Annuals / Min. of Five Varieties  69 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  60 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  60 Variegated Japanese Sedge / Carex vulpinoidea  455 Great Green Bulrush / Scirpus atrovirens  658 Morning Star Sedge / Carex grayi	CLE	32	'Hummingbird' Summersweet / Clethra alnifolia 'Hummingbird'	5 gal
RD 20 Happy Returns Dayllly / Hemerocallis hybrid 'Happy Returns' RSD 43 Red Stella Dayllly / Hemerocallis hybrid 'Red Stella'  //L 74 Variegated Liriope / Liriope muscari 'Variegata'  FORBS ATY COMMON NAME / BOTANICAL NAME  SAX 166 Golden Alexander / Zizia aurea  PFRM 110 Party Favor Rose Mallow / Hibiscus Iasiocarpos  SMMW 259 Swamp Milkweed / Asclepias incarnata  SRASSES ATY COMMON NAME / BOTANICAL NAME  66 Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES ATY COMMON NAME / BOTANICAL NAME  97 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  SROUND COVERS ATY COMMON NAME / BOTANICAL NAME  98 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  67 COMMON NAME / BOTANICAL NAME  98 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  68 Mixed Annuals / Min. of Five Varieties  69 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  60 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  60 Variegated Japanese Sedge / Carex vulpinoidea  455 Great Green Bulrush / Scirpus atrovirens  658 Morning Star Sedge / Carex grayi				
RD 20 Happy Returns Dayllly / Hemerocallis hybrid 'Happy Returns' RSD 43 Red Stella Dayllly / Hemerocallis hybrid 'Red Stella'  //L 74 Variegated Liriope / Liriope muscari 'Variegata'  FORBS ATY COMMON NAME / BOTANICAL NAME  SAX 166 Golden Alexander / Zizia aurea  PFRM 110 Party Favor Rose Mallow / Hibiscus Iasiocarpos  SMMW 259 Swamp Milkweed / Asclepias incarnata  SRASSES ATY COMMON NAME / BOTANICAL NAME  66 Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES ATY COMMON NAME / BOTANICAL NAME  97 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  SROUND COVERS ATY COMMON NAME / BOTANICAL NAME  98 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  67 COMMON NAME / BOTANICAL NAME  98 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  68 Mixed Annuals / Min. of Five Varieties  69 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  60 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  60 Variegated Japanese Sedge / Carex vulpinoidea  455 Great Green Bulrush / Scirpus atrovirens  658 Morning Star Sedge / Carex grayi	NNIIAI S/PERENNIAI S	OTY	COMMON NAME / BOTANICAL NAME	SIZE
Red Stella Dayllly / Hemerocallis hybrid 'Red Stella' //L 14				<del>-  </del>
AT Variegated Liriope Muscari 'Variegata'  CORBS   ATY   COMMON NAME / BOTANICAL NAME   SAX   166   Golden Alexander / Zizia aurea   PERM   110   Party Favor Rose Mallow / Hibiscus Iasiocarpos   SMM   259   Swamp Milkweed / Asclepias Incarnata   SRASSES   ATY   COMMON NAME / BOTANICAL NAME   6   Maiden Grass / Miscanthus sinensis 'Gracillimus'   ROSES   ATY   COMMON NAME / BOTANICAL NAME   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'   7500AL   9   OSO Easy At Las				l gal
CORBS  QTY COMMON NAME / BOTANICAL NAME  GAX   I66   Golden Alexander / Zizia aurea  FERM   IIO   Party Favor Rose Mallow / Hibiscus Iasiocarpos  MM   259   Swamp Milkweed / Asclepias incarnata  GRASSES   QTY   COMMON NAME / BOTANICAL NAME  I6   Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES   QTY   COMMON NAME / BOTANICAL NAME  I7   COMMON NAME / BOTANICAL NAME  IN    COMMON NAME / BOTANI				l gal
I66 Golden Alexander / Zizia aurea PERM IIO Party Favor Rose Mallow / Hibiscus Iasiocarpos SMMW 259 Swamp Milkweed / Asclepias Incarnata  ERASSES ATY COMMON NAME / BOTANICAL NAME 6 Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  EROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex morrowii 'Aurea-variegata'  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex morrowii 'Aurea-variegata'  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex morrowii 'Aurea-variegata'  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea	/L	74	Variegated Liriope / Liriope muscari 'Variegata'	l gal
I66 Golden Alexander / Zizia aurea PERM IIO Party Favor Rose Mallow / Hibiscus Iasiocarpos SMMW 259 Swamp Milkweed / Asclepias Incarnata  ERASSES ATY COMMON NAME / BOTANICAL NAME 6 Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  EROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex morrowii 'Aurea-variegata'  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex morrowii 'Aurea-variegata'  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex morrowii 'Aurea-variegata'  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea  FROUND COVERS ATY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Carex vulpincidea				
166 Golden Alexander / Zizia aurea PFRM 110 Party Favor Rose Mallow / Hibiscus Iasiocarpos SMM 259 Swamp Milkweed / Asclepias Incarnata  SRASSES 0TY COMMON NAME / BOTANICAL NAME 6 Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES 0TY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  SROUND COVERS 0TY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  6 Mixed Annuals / Min. of Five Varieties  6 OI Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  1 ATIVE GRASSES 0TY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  6 OI Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  6 OI Variegated Japanese Sedge / Carex wipinoidea  1 ATIVE GRASSES 0TY COMMON NAME / BOTANICAL NAME 7 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'	ORBS	QTY	COMMON NAME / BOTANICAL NAME	SIZE
PERM IIO Party Favor Rose Mallow / Hibiscus Iasiocarpos  SMM 259 Swamp Milkweed / Asclepias incarnata  DERASSES QTY COMMON NAME / BOTANICAL NAME  Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES QTY COMMON NAME / BOTANICAL NAME  DESOAL 9 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  DEROUND COVERS QTY COMMON NAME / BOTANICAL NAME  324 Mixed Annuals / Min. of Five Varieties  MATIVE GRASSES QTY COMMON NAME / BOTANICAL NAME  THOU Variegated Japanese Sedge / Carex morrowill 'Aurea-variegata'  MATIVE GRASSES QTY COMMON NAME / BOTANICAL NAME  THOU Brown Fox Sedge / Carex vulpinoidea  MATIVE GRASSES QTY COMMON NAME / BOTANICAL NAME  THOU Brown Fox Sedge / Carex vulpinoidea  MORNING Star Sedge / Carex grayi				2 Qt. @ 18"
SMAN 259 Swamp Milkweed / Asclepias incarnata  SRASSES ATY COMMON NAME / BOTANICAL NAME  6 Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES ATY COMMON NAME / BOTANICAL NAME  250AL 9 050 Easy At Last Rose / Rosa x '050 Easy At Last'  SROUND COVERS ATY COMMON NAME / BOTANICAL NAME  324 Mixed Annuals / Min. of Five Varieties  601 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  1ATIVE GRASSES ATY COMMON NAME / BOTANICAL NAME  740 Brown Fox Sedge / Carex vulpinoidea  485 Great Green Bulrush / Scirpus atrovirens  Morning Star Sedge / Carex grayi				Gal @ 30"
SRASSES  QTY COMMON NAME / BOTANICAL NAME  (6 Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES  QTY COMMON NAME / BOTANICAL NAME  DSOAL  9 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  SROUND COVERS  QTY COMMON NAME / BOTANICAL NAME  324 Mixed Annuals / Min. of Five Varieties  (60) Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  ATIVE GRASSES  QTY COMMON NAME / BOTANICAL NAME  T40 Brown Fox Sedge / Carex vulpinoidea  455 Great Green Bulrush / Scirpus atrovirens  Morning Star Sedge / Carex grayi			<u>'</u>	2 Qt. @ 24"
Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES  QTY COMMON NAME / BOTANICAL NAME  DSOAL  9 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  BROUND COVERS  QTY COMMON NAME / BOTANICAL NAME  324 Mixed Annuals / Min. of Five Varieties  601 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  NATIVE GRASSES  QTY COMMON NAME / BOTANICAL NAME  T40 Brown Fox Sedge / Carex vulpinoidea  485 Great Green Bulrush / Scirpus atrovirens  Morning Star Sedge / Carex grayi	er 17 3	1209	Sharip Financea / Asciepias incarnata	
Maiden Grass / Miscanthus sinensis 'Gracillimus'  ROSES  QTY COMMON NAME / BOTANICAL NAME DSOAL  9 OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  SROUND COVERS  QTY COMMON NAME / BOTANICAL NAME 324 Mixed Annuals / Min. of Five Varieties  601 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  NATIVE GRASSES  QTY COMMON NAME / BOTANICAL NAME THOU Brown Fox Sedge / Carex vulpinoidea  485 Great Green Bulrush / Scirpus atrovirens  Morning Star Sedge / Carex grayi		T == :		1-,
ROSES  QTY COMMON NAME / BOTANICAL NAME  DEPOPULATION OF Easy At Last Rose / Rosa x 'OSO Easy At Last'  DEPOPULATION OF Easy At Last Rose / Rosa x 'OSO Easy At Last'  DEPOPULATION OF Easy At Last Rose / Rosa x 'OSO Easy At Last'  DEPOPULATION OF Ea				SIZE
OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  SROUND COVERS  QTY	16	6	Maiden Grass / Miscanthus sinensis 'Gracillimus'	5 gal
OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'  SROUND COVERS  QTY				
SROUND COVERS  ATY  COMMON NAME / BOTANICAL NAME  324 Mixed Annuals / Min. of Five Varieties  601 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  NATIVE GRASSES  ATY  COMMON NAME / BOTANICAL NAME  T40 Brown Fox Sedge / Carex vulpinoidea  485 Great Green Bulrush / Scirpus atrovirens  453 Morning Star Sedge / Carex grayi	ROSES	<b>QTY</b>	COMMON NAME / BOTANICAL NAME	SIZE
SROUND COVERS  ATY  COMMON NAME / BOTANICAL NAME  324 Mixed Annuals / Min. of Five Varieties  601 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  NATIVE GRASSES  ATY  COMMON NAME / BOTANICAL NAME  T40 Brown Fox Sedge / Carex vulpinoidea  485 Great Green Bulrush / Scirpus atrovirens  453 Morning Star Sedge / Carex grayi	DSOAL	9	OSO Easy At Last Rose / Rosa x 'OSO Easy At Last'	5 <i>Ga</i> l.
Mixed Annuals / Min. of Five Varieties  601 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  NATIVE GRASSES		1	<u>,                                      </u>	
Mixed Annuals / Min. of Five Varieties  601 Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  NATIVE GRASSES	FROUND COVERS	OTY	COMMON NAME / BOTANICAL NAME	SIZE
Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'  ATIVE GRASSES  QTY  COMMON NAME / BOTANICAL NAME  740  Brown Fox Sedge / Carex vulpinoidea  485  Great Green Bulrush / Scirpus atrovirens  Morning Star Sedge / Carex grayi				2.25" Pot
NATIVE GRASSES QTY COMMON NAME / BOTANICAL NAME  T40 Brown Fox Sedge / Carex vulpinoidea  485 Great Green Bulrush / Scirpus atrovirens  453 Morning Star Sedge / Carex grayi		J24	THASA ATTIVATE / MITH. OF LIVE YAPTELIES	2.25 POT
JATIVE GRASSES QTY COMMON NAME / BOTANICAL NAME  T40 Brown Fox Sedge / Carex vulpinoidea  485 Great Green Bulrush / Scirpus atrovirens  453 Morning Star Sedge / Carex grayi				
740 Brown Fox Sedge / Carex vulpinoidea  485 Great Green Bulrush / Scirpus atrovirens  453 Morning Star Sedge / Carex grayi	HARAKA KARAKA	601	Variegated Japanese Sedge / Carex morrowii 'Aurea-variegata'	1 Qt
740 Brown Fox Sedge / Carex vulpinoidea  485 Great Green Bulrush / Scirpus atrovirens  453 Morning Star Sedge / Carex grayi	GIIGIIII AAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			
740 Brown Fox Sedge / Carex vulpinoidea  485 Great Green Bulrush / Scirpus atrovirens  453 Morning Star Sedge / Carex grayi	IATIVE COACCEC	(CT~	COMMON NAME / BOTANICAL NAME	SIZE
485 Great Green Bulrush / Scirpus atrovirens  453 Morning Star Sedge / Carex grayi				
453 Morning Star Sedge / Carex grayi		140	prown Fox Seage / Carex Vulpinolaea	Plug at 18" (
453 Morning Star Sedge / Carex grayi		1		
453 Morning Star Sedge / Carex grayi		485	Great Green Bulrush / Scirpus atrovirens	Plug at 18" (
		1	No. 12 of the Control	
		453	Morning Star Sedge / Carex grayi	Plug at 18" (
		1		
/;/;/;/;/;/;/;/;/;/;/;/;/ 45I Palm Sedge / Carex muskingumensis	/, /, /, /, /, /, /, /, /, /, /, /, /, /	451	Palm Sedge / Carex muskinaumensis	Plug at 18" (
	/:/://:////////////////////////////////	1		

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N.T.S.

REVISIONS BY

10/11/18 RMM

10/26/18 RMM

12/17/18 RMM

8/24/19 RMM

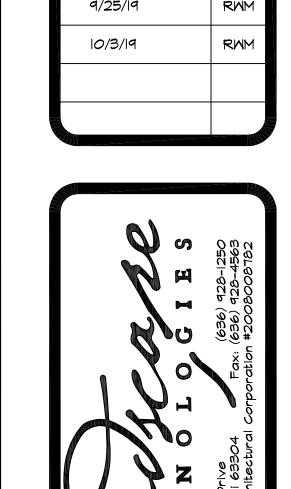
9/25/19 RMM

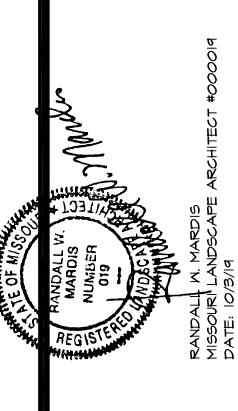
10/3/19 RMM

| Slow | Moderate | Fast | < 6" | 6 - 18" | 18 - 36" | > 3' | < 18" | 3 - 6' | 6 - 10' | 10 - 15' | > 15' | < 15' | 15 - 25' | 25 - 40' | 40 - 65' | > 65'

| Slow | Moderate | Fast | < 6" | 6 - 18" | 18 - 36" | > 3' | < 18" | 3 - 6' | 6 - 10' | 10 - 15' | > 15' | < 15' | 15 - 25' | 25 - 40' | 40 - 65' | > 65'

|Slow |Moderate |Fast | < 6" | 6 - 18" | 18 - 36" | > 3' | < 18" | 3 - 6' | 6 - 10' | 10 - 15' | > 15' | < 15' | 15 - 25' | 25 - 40' | 40 - 65' | > 65'





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MASTER PLANTING PLAN FOR I Wildhorse

DRAWN
R. MARDIS

CHECKED
RWM/EL

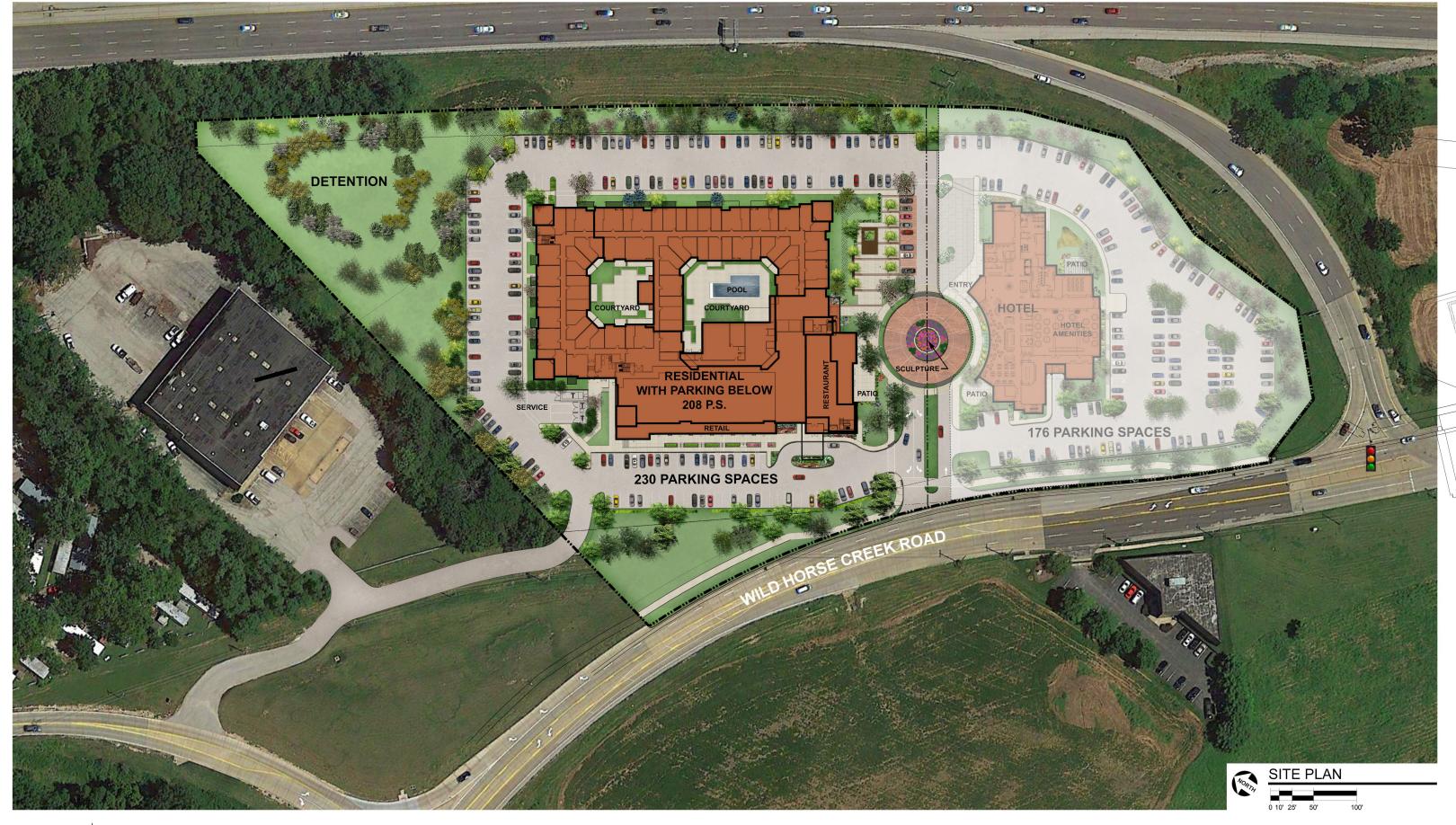
DATE
9/6/18

SCALE
1"=40'-0"

JOB No.
2018-153

SHEET

**L-3** 







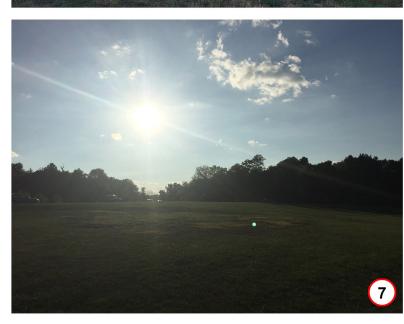
CHESTERFIELD, 18.030



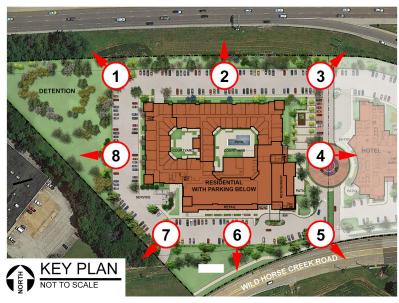






















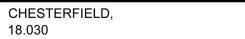


















**BUILDING PERSPECTIVE LOOKING SOUTHEAST** 







ALUMINUM AND MESH

RAILING SYTEM, TYP

FIBERGLASS

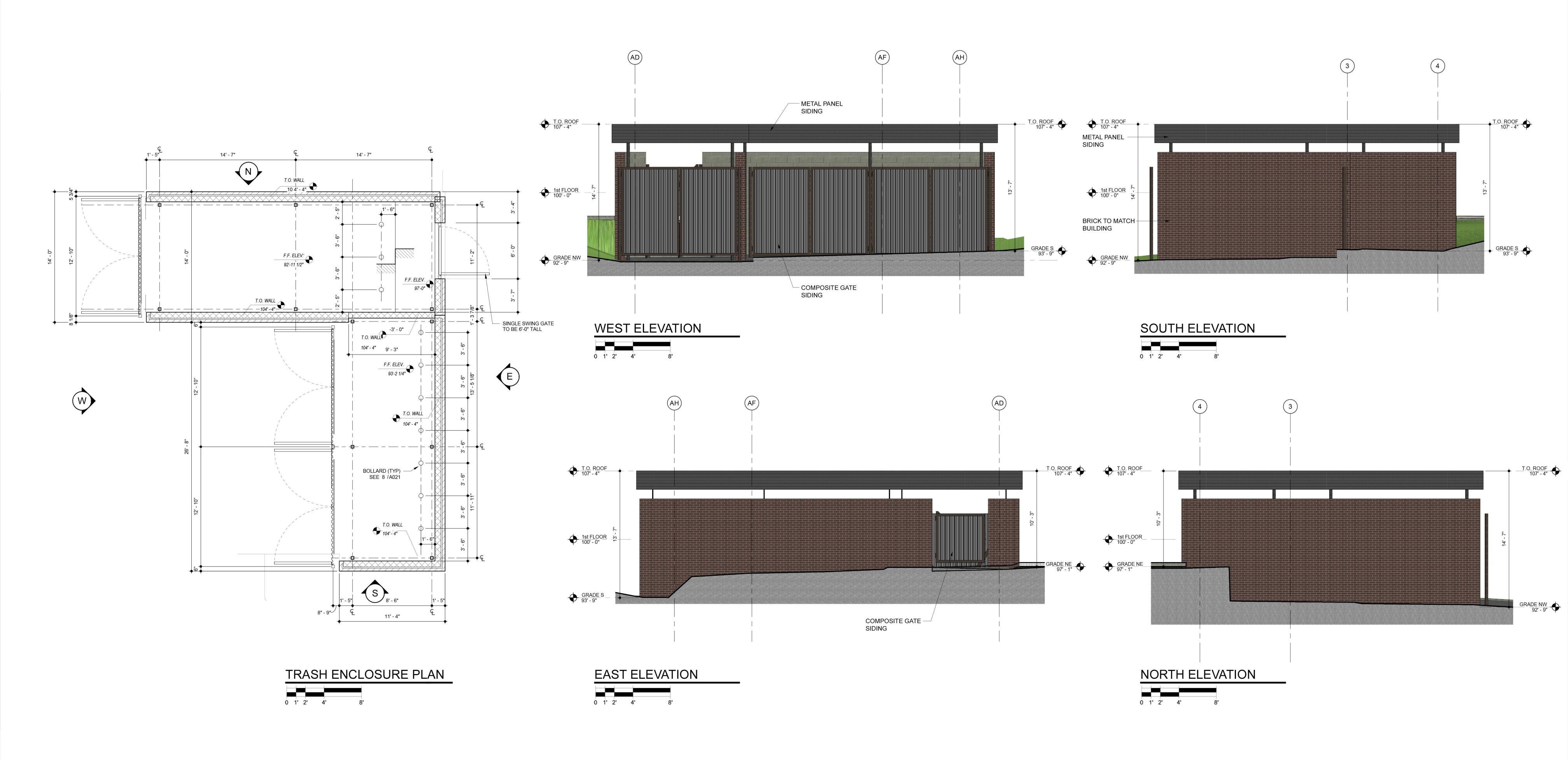
WINDOW UNIT

CORNICE DETAIL

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18.030

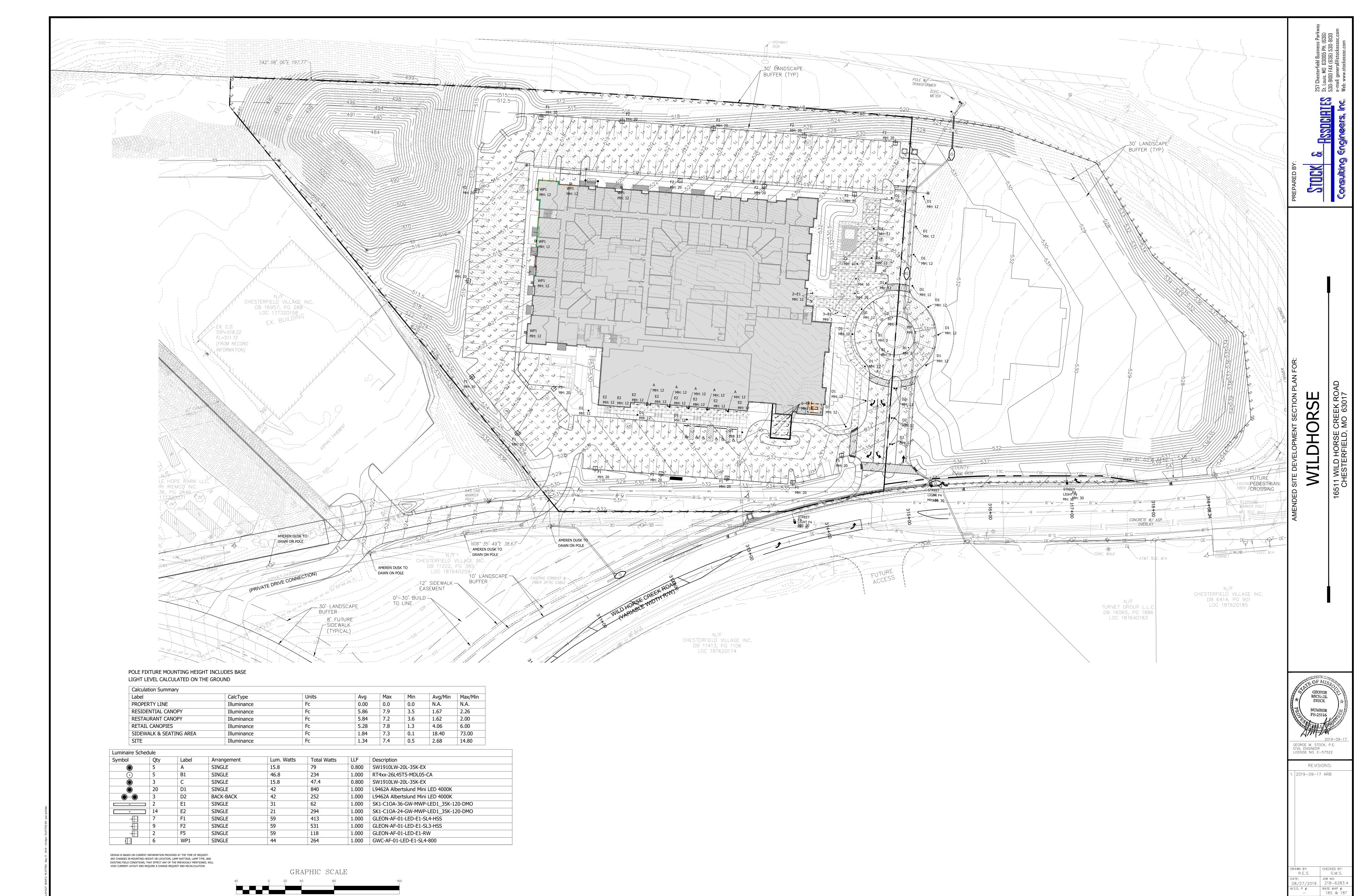
10.21.19











( IN FEET )

1 inch = 40 ft.

1. PARKING LIGHTING WILL NOT BE LOWER THAN 10FT ABOVE GRADE AND MOUNTING HEIGHTS OF LIGHTING FIXTURES SHALL NOT EXCEED 20 FT.

2. EXTERIOR LIGHTING SHALL BE FULLY SHIELDED FLAT-LENS ENCLOSED

LUMINARIES.

SITE PHOTOMETRIC PLAN

SDSP-2

S.L.C. H&T #: H&T S.U.P. #

#### DESCRIPTION

The Galleon<sup>18</sup> LED luminaire delivers exceptional performance in a highly scalable, low-profile design Patented, high-efficiency Acail FP. Optics<sup>18</sup> system provides uniform and energy conscious illumination to walksways, parking lots, readways, building areas and security lighting applications. IP66 rated and UL-GUL Listed for wet locations.

# Date

#### SPECIFICATION FEATURES

Construction Extruded aluminum driver Light Squares for optimal thermal performance. Heavy-wall, diecast aluminum end caps enclose frousing and die-cast aluminum freat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity 3G vibration tested and rated. Optional tool less hardware available for ease of entry into electrical chamber. Housing is IP68 rated.

Opties
Patented, high officiency
injection-molded AccuLED
Optics technology, Optics are
precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements, Offered standard in 4000K (4)- 275K) CCT 70 CRL Optional 3000K, 5000K and 6000K GCT

Electrical LED drivers are mounted to removable tray assembly for case of maintenance 120 277V 50/60Hz 34 AV 601 Iz or 480V 6001z operation 180V to compatible for use with 180V Vive systems only. Standard with 0-10V dimining, Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LFD luminaire suitable for operation in -40°C to 40°C ambient encironments For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) compartment. A knock out enable option Tight Squares are IP66 rated. Greater than 90% lumen

maintenance expected at 60,000 hours. Available in standard 1A

Mounting STANDARD ARM MOUNT:

drive current and optional 600mA

Extruded aluminum arm includes internal bolt guides allowing for

easy positioning of fixture during mounting. When mounting two

or more luminaires at 90° and

120° apart, the FA extended arm may be required. Refer to the

Housing finished in super durable TGIC polyester powder cost paint, 2.5 mil nominal thickness for 800mA and 1200mA drive currents superior protection against fade and wear. Heat sink is powder colors include black bronze, grewhite, dark platinum and graphite matches available.

Five year warranty



McGraw-Edison

**GLEON GALLEON LED** 

1-10 Light Squares Solid State LED

AREA/SITE LUMINAIRE

# 

Number of Light Squares	"A" Width	Standard Ami Length	Optional 4m Length 1	Weight vath Arm (lbs.i	VIVA with Arm 2 (Sq. F.)
1.4	15-1 <i>t2</i> * (394in m)	7' (178m n)	10* (254mi=)	33 (15.0 kgs.)	0.06
5-6	;* == g=* (549m m)	71 (178mm)	10" (254mm)	44 (70 1 kgs.)	100
7-8	27 c/e* (702m m)	/* (178m n)	13" (330mm)	(74 ° kgs.)	1.17
9-16	33-3// (mm)	7" (178mm)	16" (40):mr=)	63 (28.2 kgs.)	1.12

FACO N

3' [22r m]

CERTIFICATION DATA

M79/LVISC Comp art GV cration Pates 166 Isted coign Lich to Corpor; un ™ Quolifed™ NERGY DATA

20% Lot (Il termonic betortion 20% 277% 65% 0Hz 17V & 1807 20Hz 16% Din Temperature 19% Max, Temperature 19% Max, Temperature (HA Option)

# FIXTURE - F1. F2. F3

#### DESCRIPTION

DBSCRIPTION
The Galleon<sup>®</sup> Wall LED luminaire appearance is complomentary with the Galleon area and site luminaire bringing a modern architectural style to lighting applications. Decible mounting options accommodate well surfaces in both an upward and downward configuration. The Galleon lamily of LED products deliver exceptional performance with paterited, high-efficiency AcouLED Optios<sup>®</sup>, providing uniform and energy conscious lighting for parking lots, building and security lighting applications.

#### SPECIFICATION FEATURES

Construction Driver enclosure thermally isolated from optics for optimal thermal performance. Heavy wall aluminum housing die-cast with integral external heat sinks to provide superior structural rigidity and an IP66 rated housing. Overall construction passes a 1.5G

vibration test to ensure mechanical integrity, UPLIGHTING, Specify with the UPL option for inverted mount uplight housing with additional protections to maintain

Optics Choice of thirteen patented, high efficiency AccuLED Optics. The optios are precisely designed to shape the distribution maximizing efficiency and application spacing AccuLED Optics create consistent Acculed updos create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (Hz. 275K) CCT and minimum. 70 CRI Optional 3000K, 5000K and 6000K CCT Greater than 90%

N HEARTSTAL A

-15-17-51 [486:um]-

HOOK-N-LOCK MOUNTING

FACA

DIMENSIONS

lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 1200mA, 800mA, and 600mA drive

Electrical LED drivers are mounted for ease of maintenance, 120-27/V 99/60Hz, 347V or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Drivers are provided standard with 9 10V dimming An optional Faton proprietary surge protection module is available and designed to withstand 10kV of transient line surge. The Galleon Wall LED luminaire is suitable for operation in 40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 30°C, specify the HA

(High Ambient) option. Emergency egress options for -20°C ambient

paint, 25 min normal miscenses for superior protection against lade and wear. Standard colors include black, bornes, gives, white, dark platinum and graphite metallic RAI and outstorn color matches available Consult the McGraveT dison Architectural. Colors brochure for the complete

**Mounting** Gasketed and zinc plated rigid steel

mounting attachment fits directly to 4" j-box or wall with the Galleon Wall "Hook-N-Lock" mechanism for quick installation. Secured with

captive corrosion resistant

black uxide coated allen head set

screws which are concealed but accessible from bottom of lixture.

Finish Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness



CERTIFICATION DATA LM / 9 ! LIV 99 Complian : IF 68 Housing

10% Total Harmon n Listortion 10 2779/50 & 60Hz, 3479/60Hz

SHIPPING DATA

# FIXTURE - WP1

BATTERY BACKUP AND THRU-BRANCH BACK BOX

# McGraw-Edison

Catalog #	Туре
Project	
Comments	Date
Prepared by	



**GWC** GALLEON WALL

1-2 Light Squares Solid State LED WALL MOUNT LUMINAIRE

> E3 E4 E6 E7 E8 E9 E10 E11 E12 E13 S (S. naet dimming- Dimas monthly from 2700 s to 1200K; 9w only) E18 E19 E25 "12w is deniming only, select "0.". See page 2 for dimming protocols and limitations, WN154

MCT18

MCT18

MO12LD

LIGHT SOURCE & WATTAGES

(12%, 750 tunian, Crea modula) Integral Linker, 120V, dimining & narrus distribution on Y

(GU24 Surke, Only)

MOOSED (9w, 850 June 1, Orse incidate)

MOTOLD (10w, 1250 Jumer, Crae Hodule)

MU16LD (16w, 2000 tumer, Crae module)

M021LD 12/w, 3000 lumer, Crae module)

NO 15 Name with stripute most building at 11 11 er su

4 COLOR TEMPERATURE (CCT)

(° 100 k) (Not Fun≠e: Rim)

(4000K) (Not Eurise, Dim)

"12w is narrow only, select "N".

(270 CK)

LED

les on lights Consortium 'Ot alified\* ENERGY DATA 48CW60Hz
-109C Min milm Temperature
49-C Ambion: Temperature Rating

# © 2016 ANP Lighting. All rights received. Those specifications are interided for general surpcises only. ANP reserves then ships distinguished to design, without prior notice, this continuing of only operado its products.

**DECORATIVE LIGHTING** 

VYN1317

PM20

PM4ff

Weight: 21os

3 4 6

RTCNC (Crive: CanapalNa Scuri Cove-

NA (Housing not required for 12%)

MOUNTING SOURCES

RTC (Dil/erCaropy)



Specifications MCT18

Quantity:

(h) 🗸 (llumination

Finish:
4 do server cowder cost high quality finish who because to any applied and baland all 7 situates explored dark. By and our reliability and our reliability conditions are fine server for the server of the

Meditications: Consult factory for bustom or mobiled Luminaries.

MOUNTING SOURCES Continued

Cont Mounts

BLC (F' place com with 1' x 5.3/8" carops)

WHC (6 white contivininin's 5 3/3 canopy)

25T6 25T12 25T18 25T24 25T3G 25T48

374" (1" OD Rigid Bremswillt STO Flat Ostorpy)

3516 35142 35148 35124 35136 35140

(See Step 5 to Driver Housing Options)

8 ACCESSORIES

"EMG-LED 5 (5% LEC Emerger by Driver, famola blacken ent, Orse module only)"

\*EMG-LED7 (7/w LEC Emergency Driver, remote placement, Oree mode le only)

'EMG LED 10 (10w, LED Emergency Driver remote placement, Oree mode le only)

For Emergency lumen output data, see Resources section at www.anglighting.com.

25160 25172 25190

3ST60 3ST72 3ST96

GR18 (13" Wire Grill) PC (Button Fhoto Cell) Remote City
SC (Stimil in Arms)

SQ (Screare Eack Flate)

SYML (DWNel)
TBK (Tom Eucke Kil)

SLC (Sloped Celling Mount, 20" Woxi

Project: \_\_

MCT18 M024LD D W 40K RTC UNV E6 PC 41

UNV

Fixture Type:





CHESTERFIELD. 18.030

**MISSOURI** 10.01.18





1-800-548-3227

# astro

# PRODUCT ELEVATIONS

astro

## GENERAL

LOCATION: Exterior CLASS: cETLus (Class 1) LOCATION RATING: Wet VOLTAGE: Mains 120V INSTALLATION ORIENTATION: Wall Mount FITTING METHOD: 4" Octagon Box MAIN MATERIAL: Metal - Aluminium

H:110mm W:110mm D:106mm DIMENSIONS:

H: 4.33" W: 4.33" D: 4.17"

CUT OUT HOLE: Not Applicable RECESS DEPTH: 55mm/2.16" FIRE RATING: Not Applicable CABLE LENGTH: Not Applicable GROSS WEIGHT: 1.58lbs

ADA COMPLIANT: No

IC RATING: Not Applicable

#### LAMP

LIGHT SOURCE: HIGH POWER LED

MAXIMUM WATTAGE: 3.4W

LAMP INCLUDED: Yes (Integral) MAXIMUM LAMP LENGTH: Not Applicable LUMINOUS FLUX: 89.35 lm COLOUR TEMP: 3000K CRI: 90 R9: 9.1 MACADAM ELLIPSE: 3-step TILT ADJUSTABLE ANGLE: Not Applicable ROTATION ADJUSTABLE ANGLE: Not Applicable AVERAGE LIFESPAN: 60,000 hours

>60,000 hours

To Be Advised

#### ELECTRICAL

BEAM ANGLE:

L70:

SWITCHED:

DIMMABLE: Not Applicable DIMMING METHOD: Not Applicable DRIVER INCLUDED: Yes (Integral) DRIVER OUTPUT CURRENT: 700

DRIVER OUTPUT VOLTAGE: Not applicable SUPPLY FREQUENCY: 50/60Hz DRIVER/BALLAST VOLTAGE: 100-277V DRIVER AVERAGE LIFESPAN: 30000 EFFICACY: 26.28

## ADDITIONAL INFORMATION

SHADE INCLUDED Not Applicable SHADE MATERIAL Not Applicable

ISSUE 2 / 14.08.19

CODE: 1298010 (8076) FINISH: TEXTURED WHITE



FINISH: TEXTURED BLACK



CODE: 1298012 (8078) FINISH: TEXTURED GREY

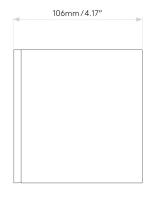
TO MAINTAIN THIS PRODUCT TO ITS BEST CONDITION, PLEASE VIEW OUR CARE AND CLEANING GUIDELINES ON THE SUPPORT SECTION OF THE ASTRO WEBSITE.

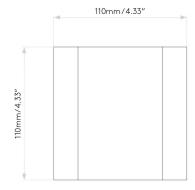
TYPICAL PORCH LIGHT

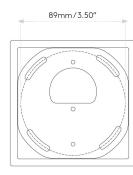
.(II)..

Please note that some dimensions may vary slightly due to manufacturing tolerances, this includes cable entry and fixing holes









PAGE. 02/02 ISSUE 2 / 14.08.19

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**ARCHITECTS** 9812 Manchester Road St. Louis, Missouri 63119 C Copyright

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2019

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